

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

October 25, 2022

Via Federal Express

Denise Raap, First Selectman
Town of Litchfield
Litchfield Town Hall
P.O. Box 488
Litchfield, CT 06759

Re: **Submission of Technical Information Concerning a Proposal to Construct a Wireless Telecommunications Facility off Mason Hill Road, Litchfield, Connecticut**

Dear Ms. Raap:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”), in its proposal to construct a new wireless telecommunications facility on a 8.17 acre parcel off Mason Hill Road in southeast Litchfield, Connecticut (the “Property”). (See Site Vicinity Map and Site Schematic included in Attachment 1). The Property is owned by Joyce S. Williams. The proposed telecommunications facility is known as Cellco’s “Plymouth NW 2 Facility”.

This Technical Report is submitted pursuant to Connecticut General Statutes (“Conn. Gen. Stat.”) § 16-50(g), which establishes local input requirements for the siting of a wireless telecommunications facility under the exclusive jurisdiction of the Connecticut Siting Council (the “Council”). This statutory provision requires the submission of technical information to officials in the municipality where the proposed facility will be located and any municipality within 2,500 feet of the proposed facility location. The Town of Thomaston is within 2,500 feet of the proposed facility.

Correspondence and/or communications regarding the information contained in this report should be addressed to:

Robinson+Cole

Denise Raap, First Selectman

October 25, 2022

Page 2

Tim Parks
RE/Regulatory Specialist
Cellco Partnership d/b/a Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

A copy of all such correspondence or communications should also be sent to Cellco's attorneys:

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

Cellco intends to submit an application to the Council for a Certificate of Environmental Compatibility and Public Need ("Certificate") for the construction, maintenance and operation of a wireless telecommunications facility in the southeast portion of the Property. The Plymouth NW 2 Facility would provide reliable wireless service to portions of southeast Litchfield, and northern Thomaston in the vicinity of the Property including significant portions of State Route 254 in Litchfield and Thomaston. The Plymouth NW 2 Facility will also provide capacity relief to Cellco's Plymouth NW cell site (Gamma sector antennas), which is currently exhausted at 700 MHz. Coverage plots showing Cellco's existing wireless service in southeast Litchfield and then service with the proposed Plymouth NW 2 Facility in its 700 MHz, 1900 MHz, 2100 MHz and 3700 MHz frequencies are included in Attachment 2.

Cell Site Information

Cellco proposes to install a 110-foot monopole tower within a 50' x 50' fenced compound (100' x 100' leased area) in the southeast portion of the Property, to the east of an existing Eversource transmission line right of way. Cellco would install up to twelve (12) panel-type antennas and remote radio heads on a platform at the top of the tower, at a centerline height of 105 feet above ground level ("AGL"). Equipment associated with Cellco's antennas, a propane-fueled backup generator, and a 500 gallon propane fuel tank would also be located in the westerly portion of the fenced facility compound. Space on the tower and in the facility compound would be made available to other wireless carriers and the Town of Litchfield for municipal and emergency service purposes, if needed. Access to the Plymouth NW 2 Facility

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Denise Raap, First Selectman

October 25, 2022

Page 3

would extend from Mason Hill Road along a new gravel driveway to the proposed tower site. Utilities would extend from existing utility service along Mason Hill Road. Included in Attachment 3 is a set of Project Plans, including a tower elevation drawing.

Connecticut Siting Council Jurisdiction

Municipal jurisdiction over the siting of the proposed telecommunications facility described in this report is pre-empted by provisions of the Public Utilities Environmental Standards Act (“PUESA”), Conn. Gen. Stat. § 16-50g *et seq.* The PUESA gives exclusive jurisdiction over the location, type and modification of telecommunications towers, to the Council (Conn. Gen. Stat. § 16-50x(a); 16-50i(a)(6)). Accordingly, the telecommunications facility described in this report is exempt from the Town’s land use (zoning and inland wetlands) regulations.

Upon receipt of an application, the Council will assign a docket number and, following a completeness review, set the schedule for the docket, including a hearing date. At that time, the Town may choose to become an intervenor or party in the proceeding. Other procedures followed by the Council include serving the applicant and other participants with interrogatories, holding a pre-hearing conference, and conducting a public hearing. In order to prevent the spread of Coronavirus and to protect the health and safety of the public, the Council’s hearing will likely be held remotely. Following the public hearing, the Council will issue findings of fact, an opinion and a decision and order. Prior to construction, the Council will also require the Applicant to submit a development and management plan (“D&M Plan”) which is, in essence, a final site development plan showing the details of the facility incorporating any conditions imposed by the Council. These procedures are also outside the scope of the Town’s jurisdiction and are governed by the Connecticut General Statutes, the Regulations of Connecticut State Agencies, and the Council’s Rules of Practice. If the Council approves the cell site described in this report, Cellco will submit to the Building Official an application for approval of a local building permit. Under Section 16-50x of the General Statutes, which provides for the exclusive jurisdiction of the Council, the building official must honor the Council’s decision.

Municipal Consultation Process

Pursuant to Section 16-50j of the General Statutes, Town officials are entitled to receive technical information regarding the proposed telecommunications facility at least ninety (90) days prior to the filing of an application with the Council. This Technical Report is provided in

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Denise Raap, First Selectman

October 25, 2022

Page 4

accordance with these provisions and includes information on the need for improved reliable wireless service in the area; the location of existing wireless facilities in and around the area; details of the proposed facility; the location of alternative sites considered and rejected; the location of schools and commercial day care facilities in the area and the aesthetic impacts of the facility on those schools and day care facilities, if any; a description of the site selection process; and a discussion of potential environmental effects associated with the proposed facility.

Not later than sixty (60) days after the initial consultation, the municipality may, in cooperation with Cellco, hold a public information meeting on the facility proposal. If such a meeting is held, the applicant must notify all abutting landowners and publish notice of the meeting in a newspaper of general circulation in the municipality, at least fifteen (15) days prior to the meeting.

Not later than thirty (30) days after the initial consultation meeting, the municipality may present the prospective applicant with alternative sites, including municipal parcels, for its consideration. If not previously considered, these alternatives will be evaluated and discussed in its application to the Council.

Pursuant to Section 16-50(l)(e) of the General Statutes, Cellco must provide a summary of the Town's comments and recommendations, if any, to the Council within fifteen (15) days of the filing of an application.

Need for the Proposed Wireless Facility

The Plymouth NW 2 Facility described in this Technical Report is needed so that Cellco can provide enhanced reliable wireless services (coverage) in southeastern portions of Litchfield and northern portions of Thomaston, including fairly significant portions of Route 254 and local roads in the vicinity of the Property.

Environmental Effects

In our experience, the primary impact of a wireless facility such as the proposed Plymouth NW 2 Facility is visual. The visual impact of the proposed Plymouth NW 2 Facility tower will vary from place to place around the site location, depending upon factors such as vegetation, topography, distance from the tower, and the location of buildings or other structures (utility infrastructure) in the sight-line of the cell site.

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Denise Raap, First Selectman

October 25, 2022

Page 5

To more fully assess the visual impact of the Plymouth NW 2 Facility, Cellco's consultant, All-Points Technology Corporation ("APT") has prepared a Preliminary Visual Assessment for the proposed tower location. This preliminary visual assessment indicates that predicted year-round visibility associated with the proposed Plymouth NW 2 Facility may include an area of approximately 21 acres (approximately 0.26% of the 8,042-acre study area). The majority of the predicted year-round visibility would be along the existing electric transmission line ROW, primarily south of the Property and over open agricultural fields at distances between 1.0 and 1.6 miles to the west of the tower site. Seasonal views of the tower site, when leaves are off the trees, may occur from an additional 44 acres around the Property. (See Preliminary Visual Assessment included in Attachment 4). A more detailed visual assessment, including photosimulations of the tower, is being prepared and will be included in Cellco's Certificate application when it is filed with the Council.

Pursuant to the provisions of Conn. Gen. Stat. § 16-50p(a)(3)(G), new telecommunications facilities must be located at least 250 feet from buildings containing schools (defined in C.G.S. §10-154a) and commercial day care facilities (defined in C.G.S. §19a-77(a)(1)) unless the location selected is acceptable to the Town's chief elected official or the Council finds that the facility will not have a substantial adverse effect on the aesthetics or scenic quality of the neighborhood where the school or commercial day care use is located. The proposed Plymouth NW 2 Facility is not located within 250 feet of any building containing a school or commercial day care facility.

Based on field surveys, Cellco has determined that the construction of the Plymouth NW 2 Facility and its access driveway will have no direct impact on inland wetlands or watercourses on or near the Property. Cellco anticipates that all other physical environmental effects associated with the proposed facility would also be minimal.

Radio Frequency Emissions

The Federal Communications Commission ("FCC") has adopted a safety standard for exposure of radio frequency ("RF") emissions from telecommunications base stations like the Plymouth NW 2 Facility (the "FCC Standard"). To ensure compliance with the FCC Standard, Cellco has prepared a far field approximation tables for the proposed facility according to the methodology described in FCC Office of Science and Technology Bulletin No. 65 ("OST Bulletin 65"). This calculation is an approximation of worst-case RF emissions from a facility, at six (6) feet above ground level. The worst-case RF emissions from the Plymouth NW2

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Denise Raap, First Selectman

October 25, 2022

Page 6

Facility would be 10.2% of the FCC Standard (nearly ten-times below the federal safety standard). (See Attachment 5).

Scenic Natural Historic or Recreational Impacts

To further assess the environmental impacts of the Plymouth NW 2 Facility, Cellco will be working with its consultant team to prepare a National Environmental Policy Act ("NEPA") Environmental Screening Checklist (the "NEPA Checklist") and other related environmental reviews to determine if the facility will have any significant adverse environmental effects. The NEPA Checklist will include information from the Environmental and Geographic Information Center of the Connecticut Department of Energy and Environmental Protection ("DEEP"), the U.S. Fish and Wildlife Service ("USFWS") and the State Historic Preservation Officer ("SHPO"). Copies of the DEEP, USFWS and the SHPO determinations will also be submitted as a part of the Council's Certificate Application.

Site Search Process

Cellco conducted a search for suitable cell site locations in southeastern Litchfield and northern Thomaston and identified the Property as a site that would satisfy its wireless service objectives in the area. In addition to the proposed location, Cellco identified and investigated ten (10) additional alternative parcels in the area. A complete list of alternative parcels investigated is included in Attachment 6.

Tower Sharing

As stated above, Cellco intends to build a tower that is capable of supporting its antennas and those of other wireless telecommunications providers, the surrounding municipalities, and emergency service providers, if a need exists. The provision to share the tower is consistent with the intent of the General Assembly when it adopted Conn. Gen. Stat. § 16-50aa and with Council policy. The availability of space on the proposed tower may reduce, if not eliminate, the need for additional towers in the area for the foreseeable future.

Conclusion

This Technical Report is submitted in accordance with Conn. Gen. Stat. § 16-50(g) which requires Cellco to supply the Town with information regarding its proposed Plymouth

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Denise Raap, First Selectman

October 25, 2022

Page 7

NW 2 Facility. This report includes information regarding the site selection process, public need, and the potential environmental impacts of the facility. Cellco submits that its proposed Plymouth NW 2 Facility would not have any significant adverse environmental effects. Moreover, Cellco submits that the public need for high quality wireless service, and a competitive framework for providing such service has been determined by the FCC to be in the public interest and that such public need far outweighs any perceived environmental effects of the proposed facility.

Please contact me if you have any additional questions regarding the proposed facility.

Sincerely,



Kenneth C. Baldwin

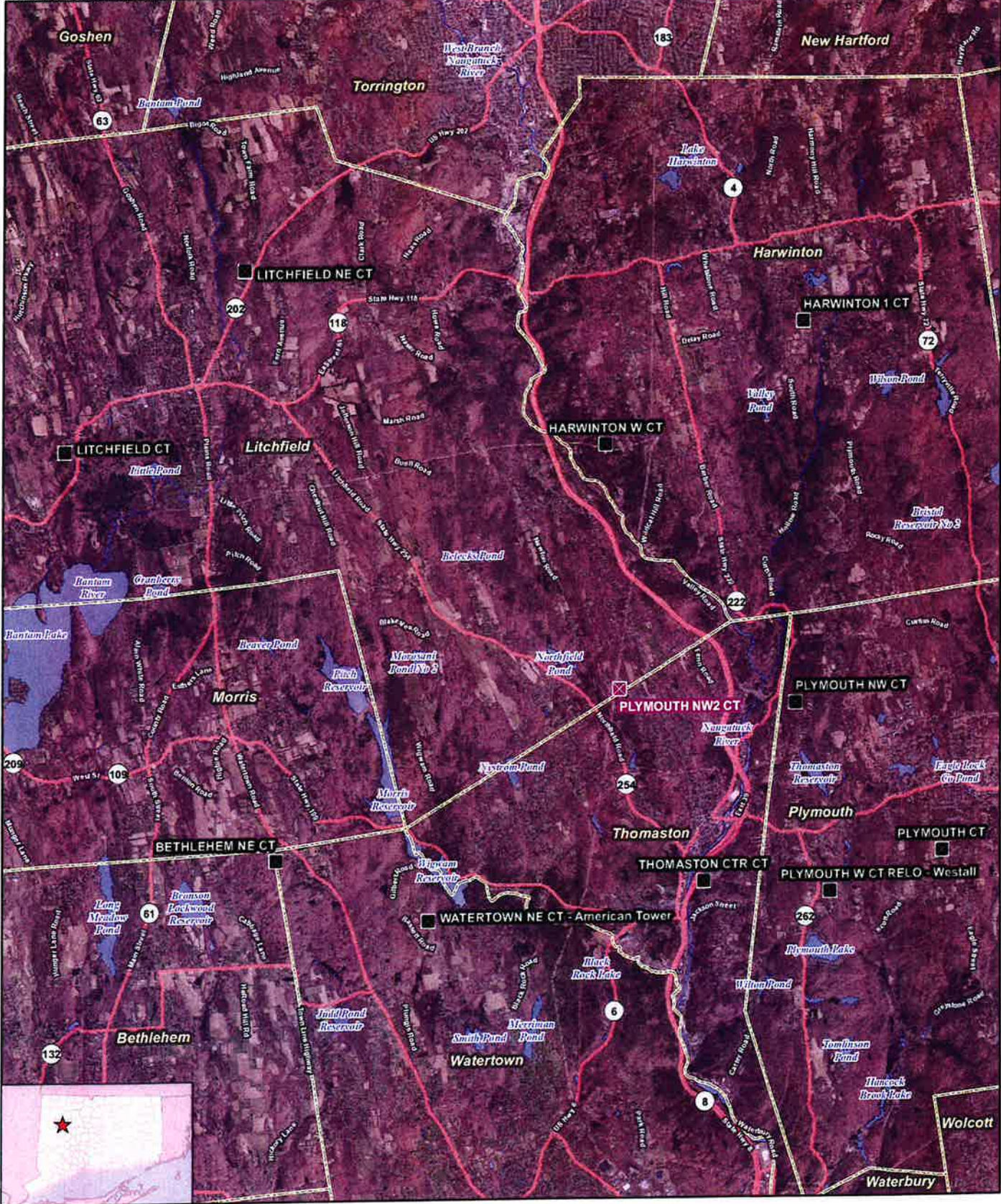
KCB/kmd

Enclosures

Copy to:

Carol Bramley, Chair, Litchfield Planning and Zoning Commission
Martin Connor, Litchfield Land Use Administrator
Robert T. Blazek, Chairman, Litchfield Inland Wetlands Commission
Edmond V. Mone, Thomaston First Selectman
Stacey Sefcik, Thomaston Land Use Administrator/Zoning Enforcement Officer
Ralph Celone, Chairman, Thomaston Planning and Zoning Commission
Joseph Fainer, Chairman, Thomaston Inland Wetlands and Watercourses Commission

ATTACHMENT 1



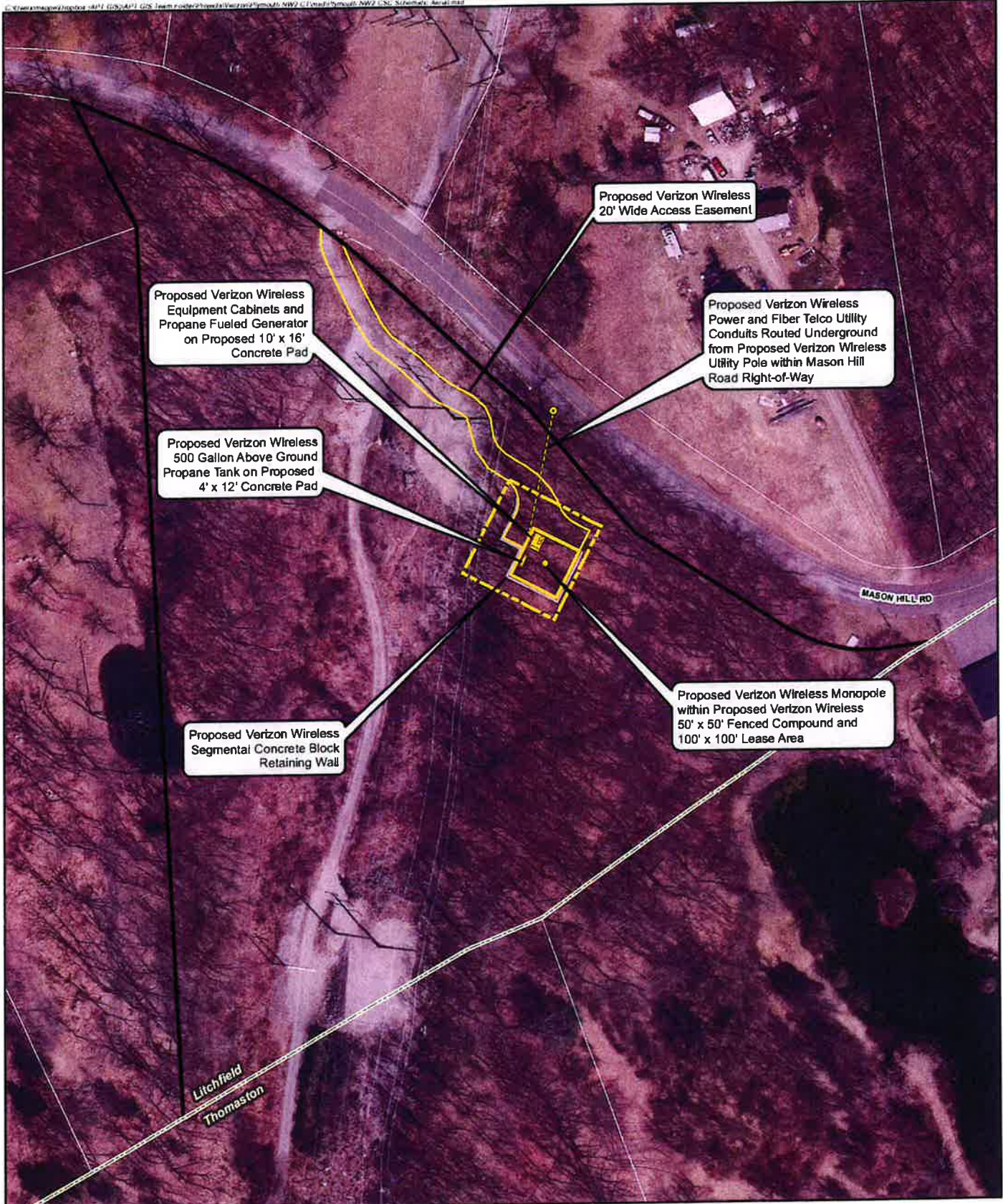
Legend

- ✖ Proposed Verizon Wireless Facility
- Surrounding Verizon Wireless Facilities
- Municipal Boundary

Site Vicinity Map

Proposed Wireless Telecommunications Facility
 Plymouth NW2 CT
 Mason Hill Road
 Northfield, Connecticut





- Legend**
- Proposed Verizon Wireless Lease Area
 - Proposed Verizon Wireless Compound
 - Proposed Verizon Wireless Access Easement
 - Proposed Verizon Wireless Equipment
 - Proposed Verizon Wireless Retaining Wall
 - Proposed Verizon Wireless Conduit
 - Proposed Verizon Wireless Utility Pole
 - Subject Property
 - Approximate Parcel Boundary
 - Municipal Boundary

Site Schematic
 Proposed Wireless
 Telecommunications Facility
 Plymouth NW2 CT
 Mason Hill Road
 Northfield, Connecticut

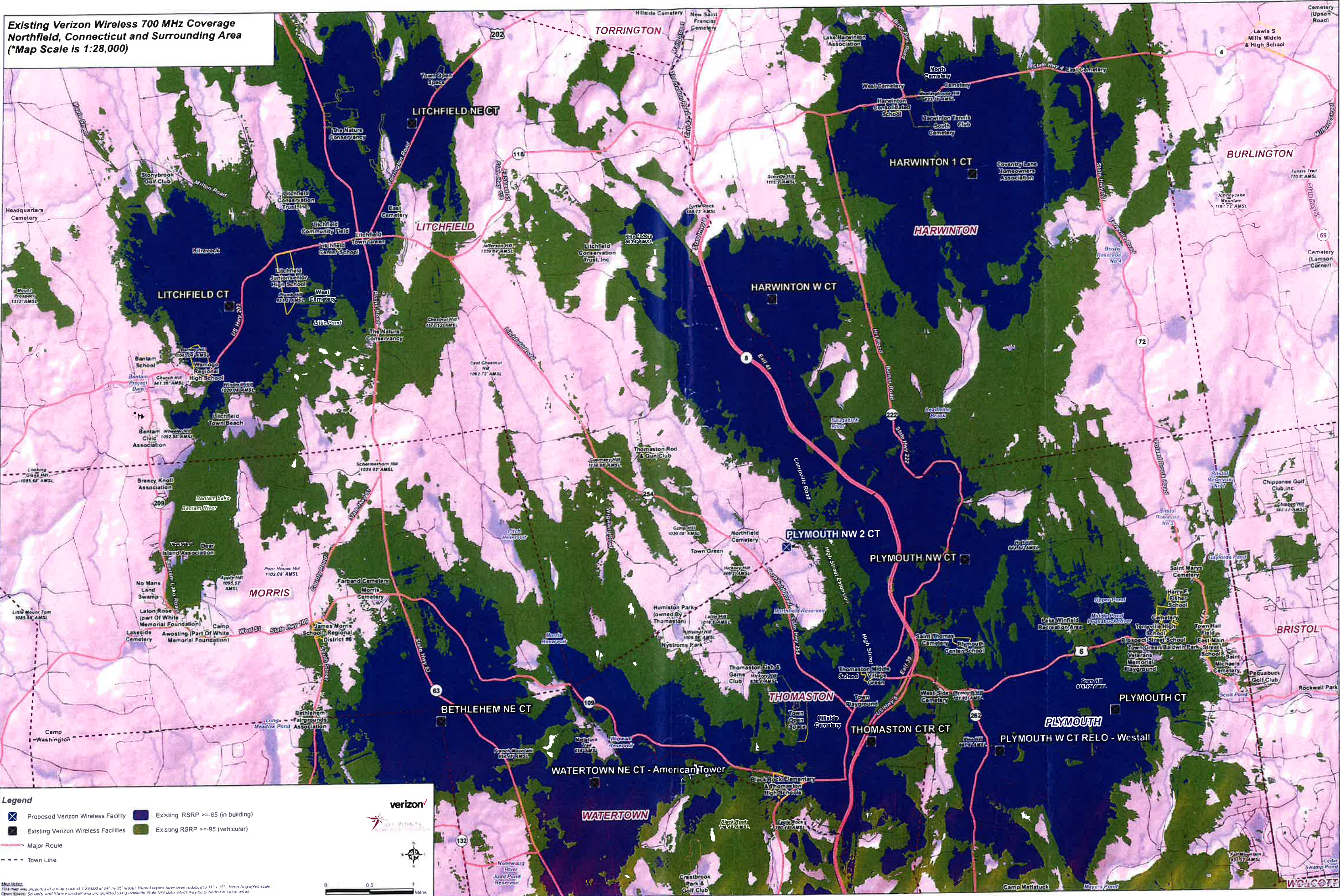


Map Notes:
 Base Map Source: 2019 CT Aerial Imagery (CTECO)
 Map Scale: 1 inch = 125 feet
 Map Date: October 2022



ATTACHMENT 2

**Existing Verizon Wireless 700 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



Legend

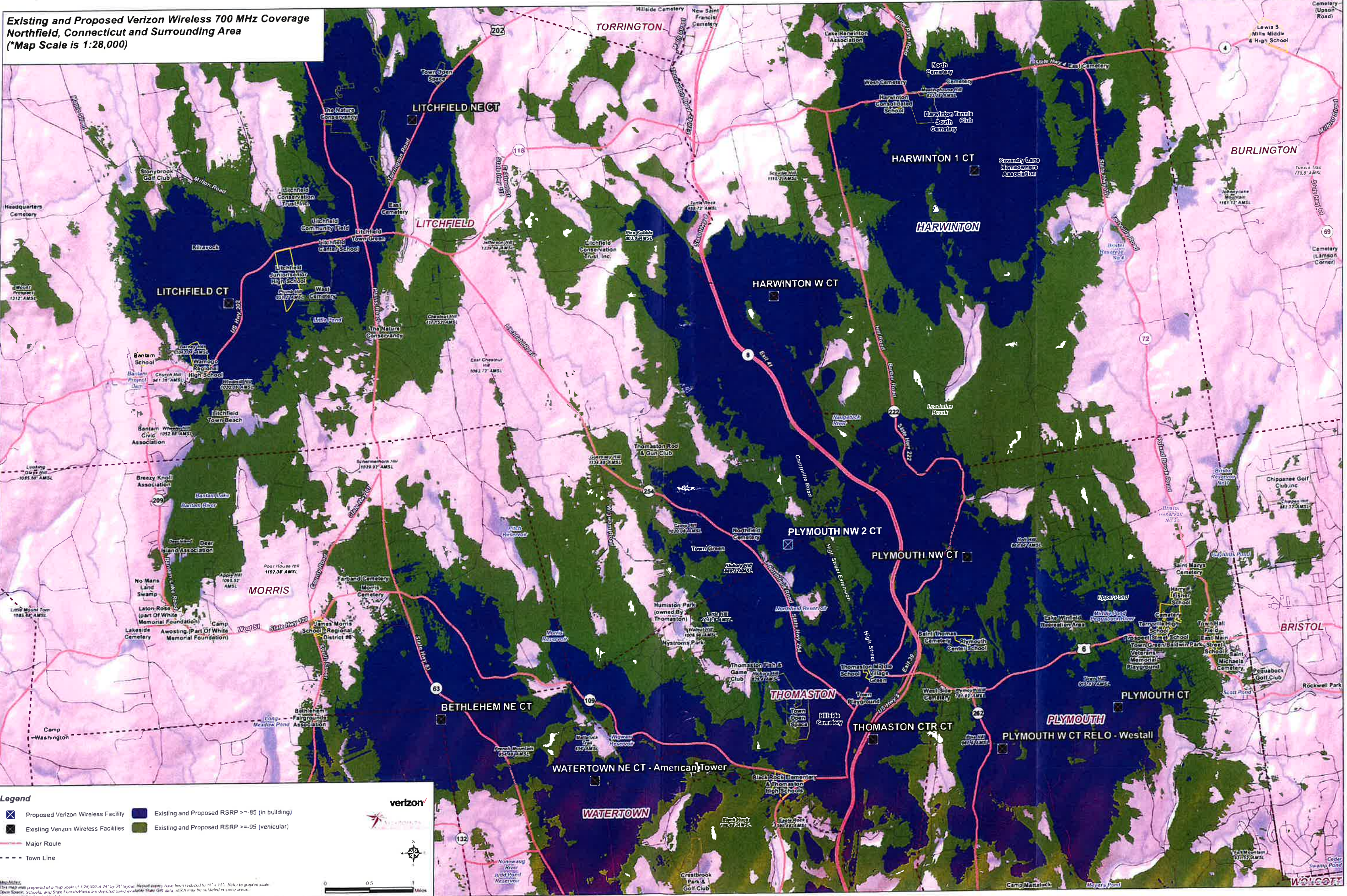
- ✕ Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Major Route
- - - Town Line
- Existing RSRP >= -85 (in building)
- Existing RSRP >= -95 (vehicular)

Map Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Map data has been reduced to 11" x 17" for graphic scale. Open Space, Schools, and State Forest/Parks are depicted using publicly State GIS data, which may be outdated in some areas. Base map: © SRI Shaded Relief.

Scale: 0 0.5 1 Miles

Verizon

**Existing and Proposed Verizon Wireless 700 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



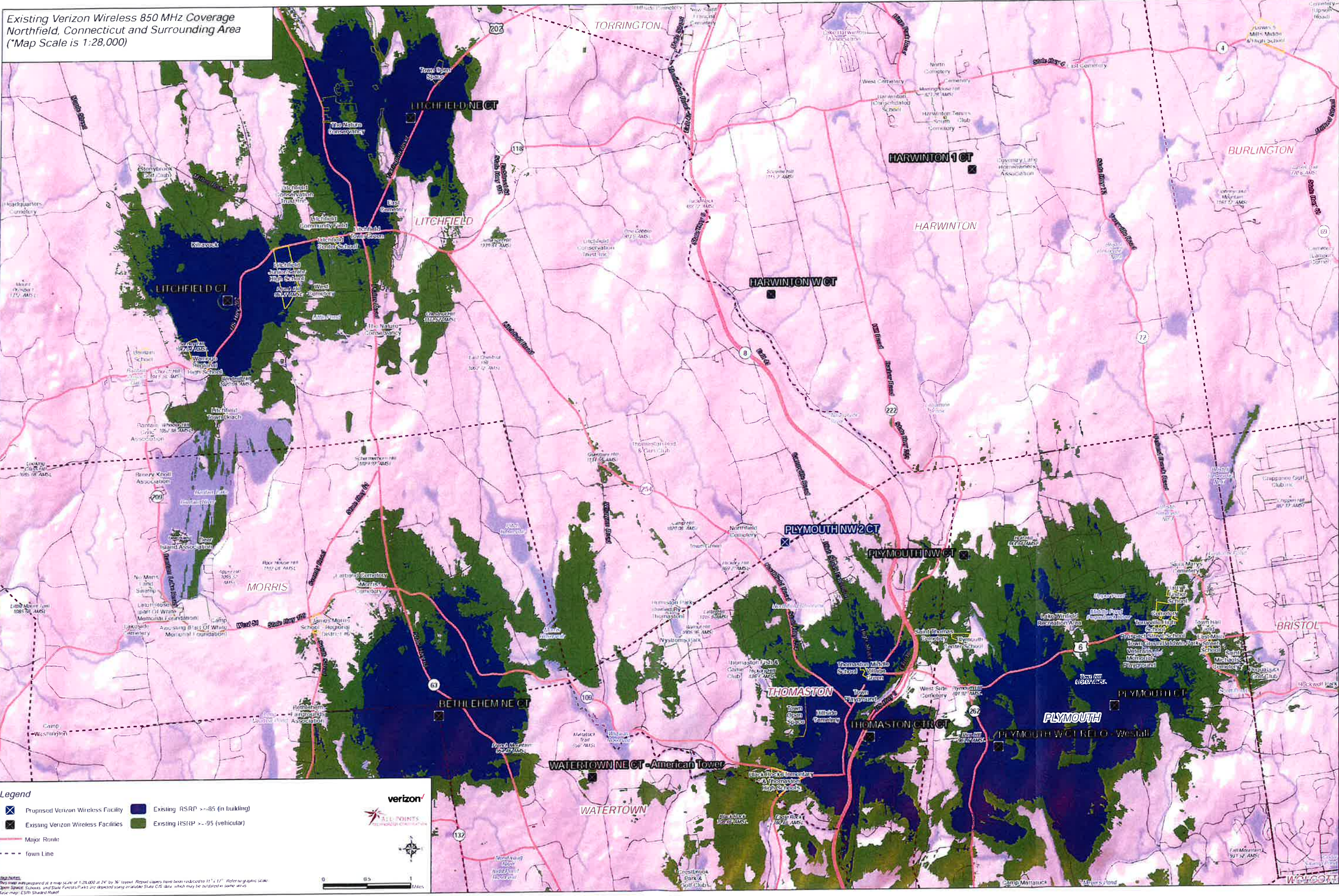
Legend

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Major Route
- - - Town Line
- Existing and Proposed RSRP >= -85 (in building)
- Existing and Proposed RSRP >= -95 (vehicular)

Verizon

Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Mapfile display has been reduced to 11" x 15". Refer to graphic scale.
Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: © SHI Studios Inc.

Existing Verizon Wireless 850 MHz Coverage
 Northfield, Connecticut and Surrounding Area
 (*Map Scale is 1:28,000)



Legend

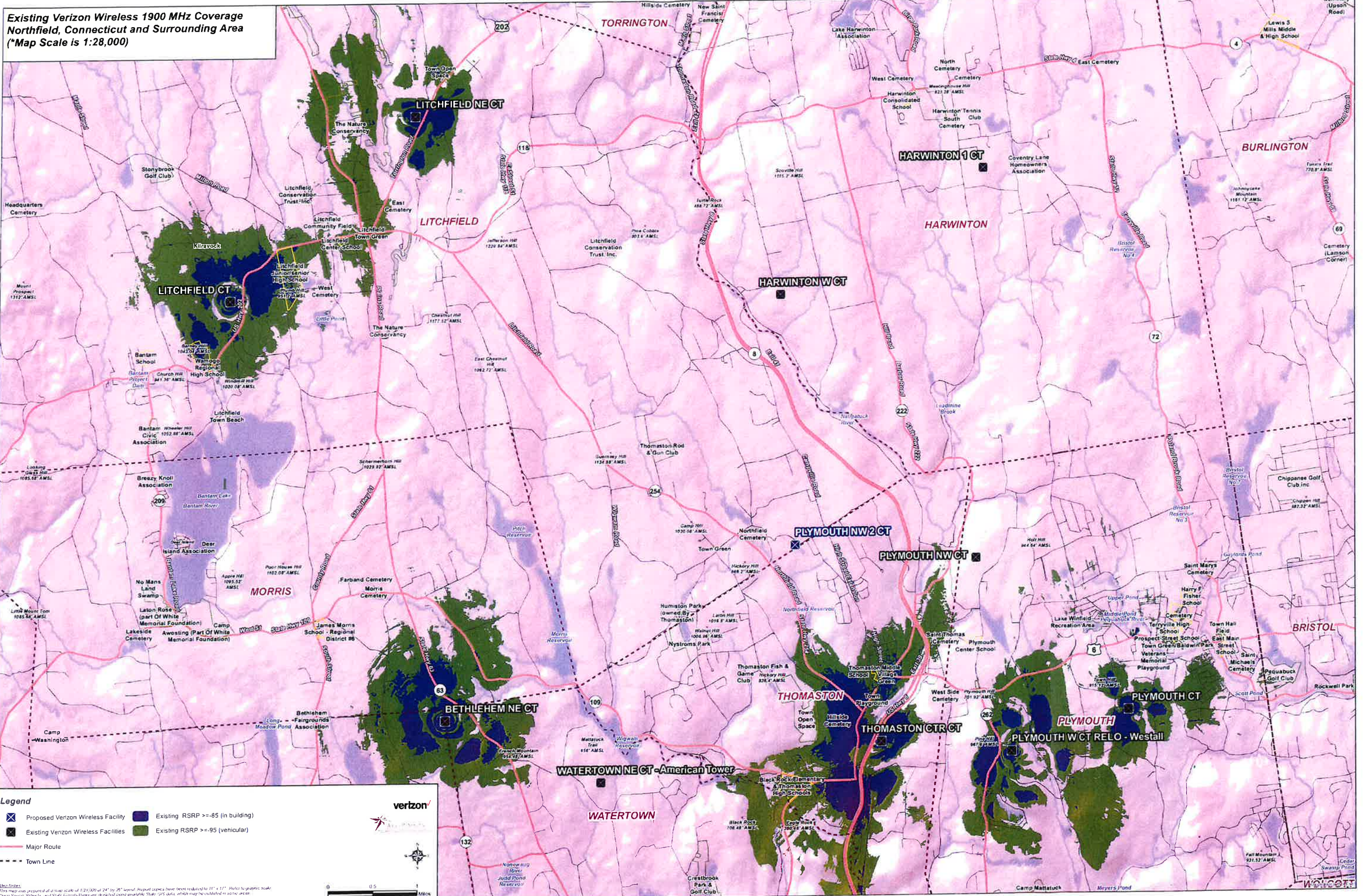
- X Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Existing RSRP > -85 (in building)
- Existing RSRP > -95 (vehicular)
- Major Road
- - - Town Line

Map Notes:
 This map is prepared at a map scale of 1:28,000 at 24" by 36" layout. Report scales have been reduced to 11" x 17". Refer to graphic scale.
 Open Space, Schools, and State Forests/Parks are depicted using aerial State GIS data, which may be outdated in some areas.
 Base map: ESRI StreetMap

verizon
 ALL POINTS
 COMMUNICATIONS CORPORATION




0 0.5 1 Miles

**Existing Verizon Wireless 1900 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



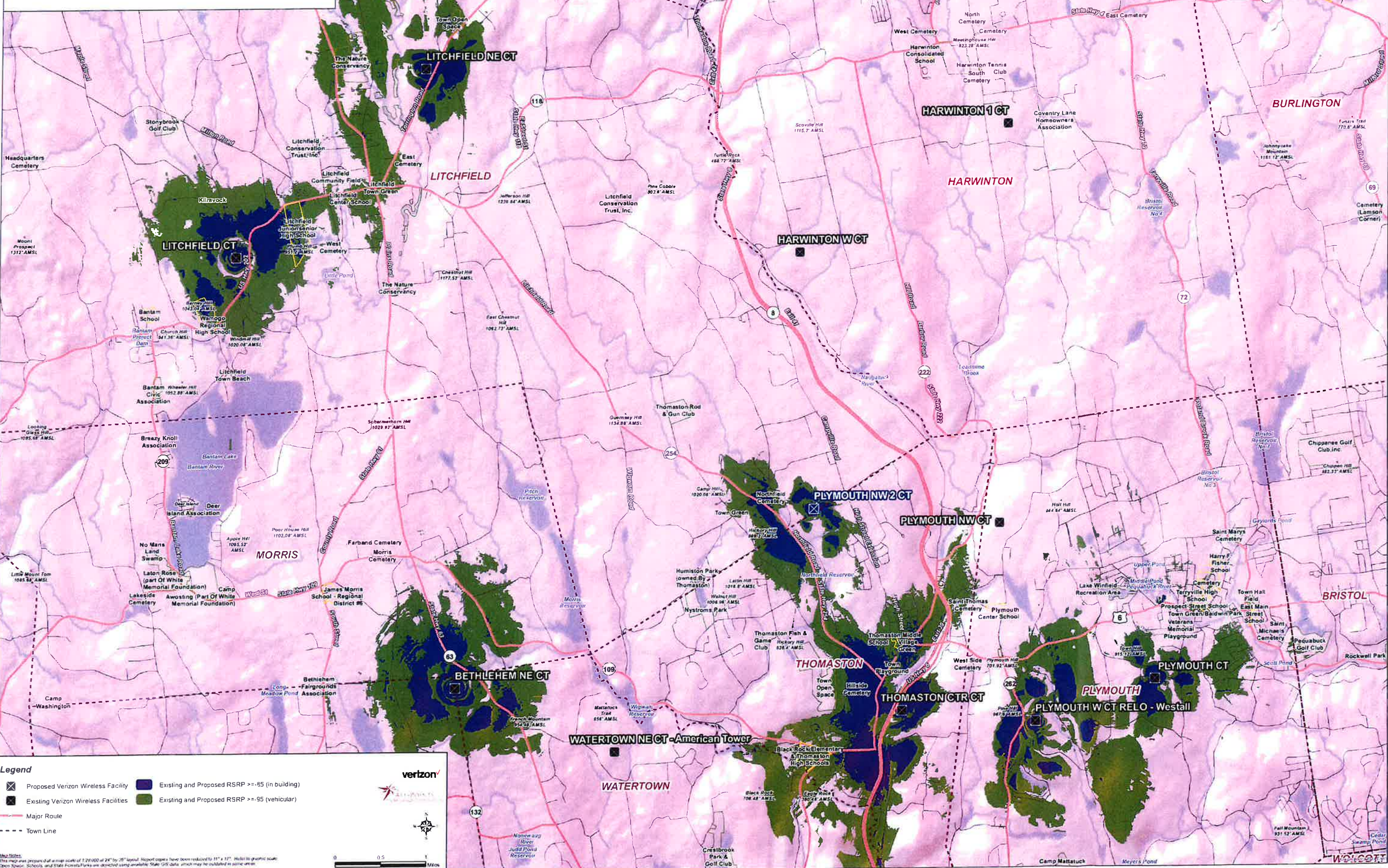
Legend

- ✕ Proposed Verizon Wireless Facility
- Existing RSRP >= -65 (in building)
- Existing Verizon Wireless Facilities
- Existing RSRP >= -95 (vehicular)
- Major Route
- - - Town Line

Notes:
This map was prepared at a scale of 1:28,000 at 24" by 36" layout. Requested copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Parks are depicted using available State GIS data, which may be outdated in some areas.
Some maps © 2000 Shaded Relief

**Existing and Proposed Verizon Wireless 1900 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



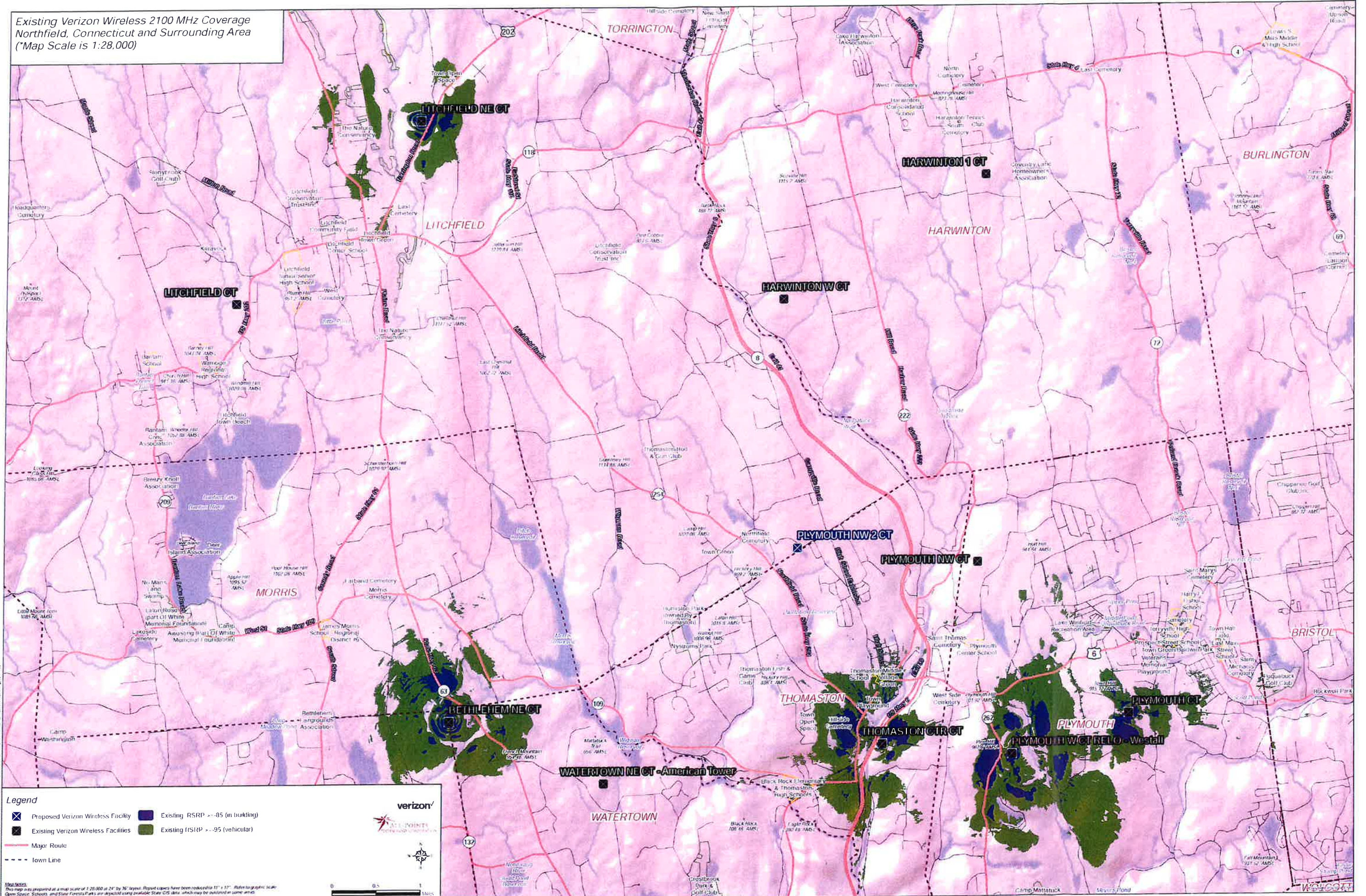
Legend

- Proposed Verizon Wireless Facility
- Existing and Proposed RSRP >= -85 (in building)
- Existing Verizon Wireless Facilities
- Existing and Proposed RSRP >= -85 (vehicular)
- Major Route
- Town Line

Map Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools and State Forests/Parks are depicted using available State GIS data which may be outdated in some areas.
Base Map: 6.50: State Road

0 0.5 1 Miles

Existing Verizon Wireless 2100 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)



Legend

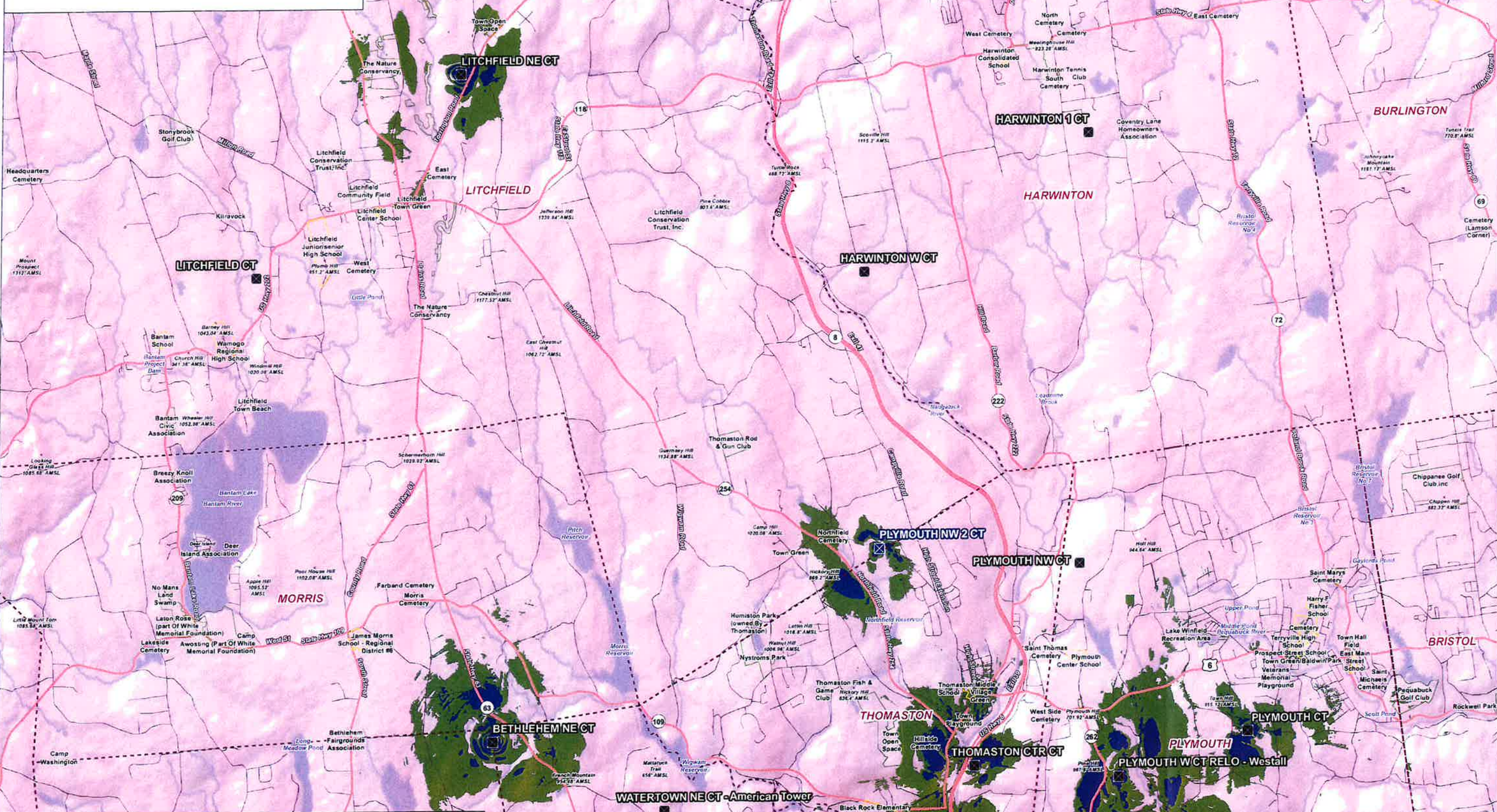
- ✕ Proposed Verizon Wireless Facility
- Existing RSRP ≤ -85 (in building)
- Existing Verizon Wireless Facilities
- Existing RSRP ≤ -95 (vehicular)
- Major Route
- - - Town Line

Verizon
ALL POINTS
CONNECTED

Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Repeat copies have been reduced to 11" x 17". Refer to graphic scale. Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas. Base map: ESRI StreetMap.



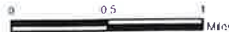
0 0.5 1 Miles

**Existing and Proposed Verizon Wireless 2100 MHz Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



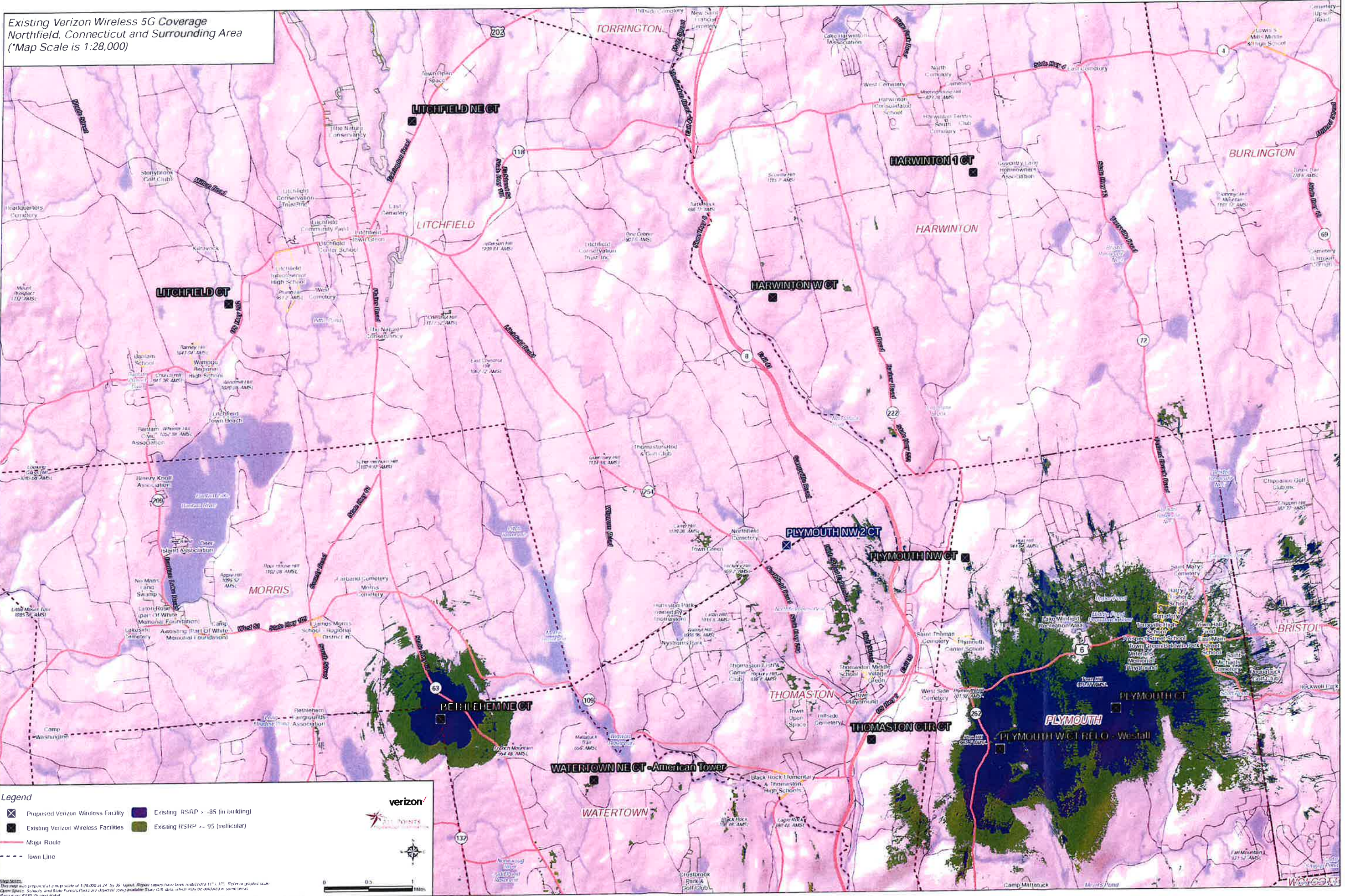
Legend

- Proposed Verizon Wireless Facility
- Existing and Proposed RSRP >= -85 (in building)
- Existing Verizon Wireless Facilities
- Existing and Proposed RSRP >= -95 (vehicular)
- Major Route
- - - Town Line

Also Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Recent copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Parks are depicted using available State GIS data which may be outdated in some areas.
Data from ESRI Standard Model

Existing Verizon Wireless 5G Coverage
 Northfield, Connecticut and Surrounding Area
 (*Map Scale is 1:28,000)



Legend

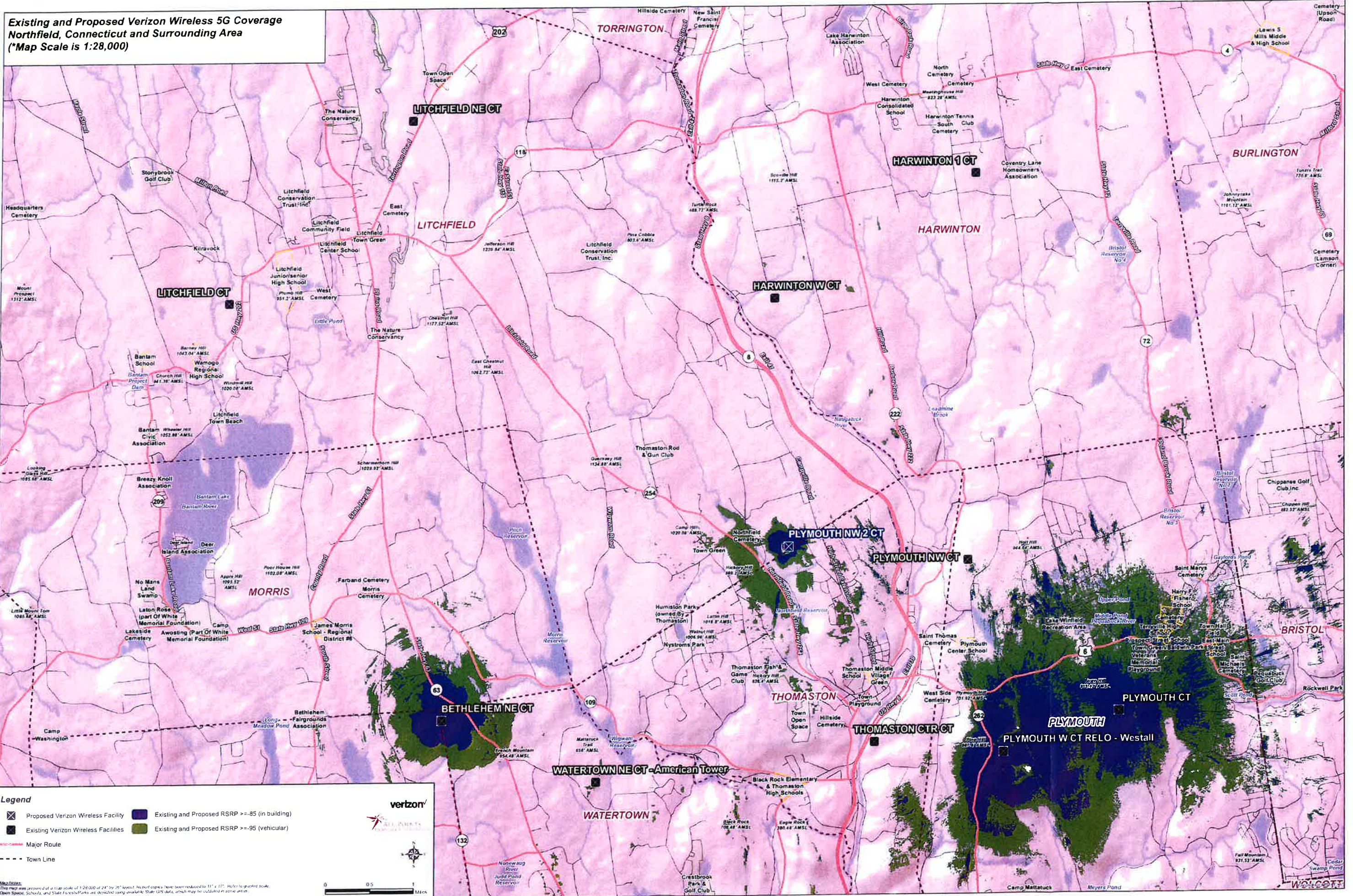
- X Proposed Verizon Wireless Facility
- Existing RSRP > -85 (in building)
- Existing Verizon Wireless Facilities
- Existing RSRP > -95 (vehicular)
- Major Route
- - - Town Line

verizon
 5G
 5G+
 5G-A

Scale: 0 0.5 Miles

This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale. Claim rights, schools, and state forest lines are depicted using available State GIS data which may be outdated in some areas. Base map: ESRI Shaded Relief.

**Existing and Proposed Verizon Wireless 5G Coverage
Northfield, Connecticut and Surrounding Area
(*Map Scale is 1:28,000)**



Legend

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Existing and Proposed RSRP >=-85 (in building)
- Existing and Proposed RSRP >=-95 (vehicular)
- Major Route
- - - Town Line

Map Notes:
This map was prepared at a map scale of 1:28,000 at 24" by 36" layout. If you are having trouble viewing the map, please refer to the printed scale.
Open Spaces, Schools, and State Parks are depicted using available State GIS data, which may be outdated in some areas.
Basic Map: 1:50,000 Shaded Relief

Scale: 0 0.5 Miles

Verizon
ALL RIGHTS RESERVED

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ATTACHMENT 3



WIRELESS COMMUNICATIONS FACILITY

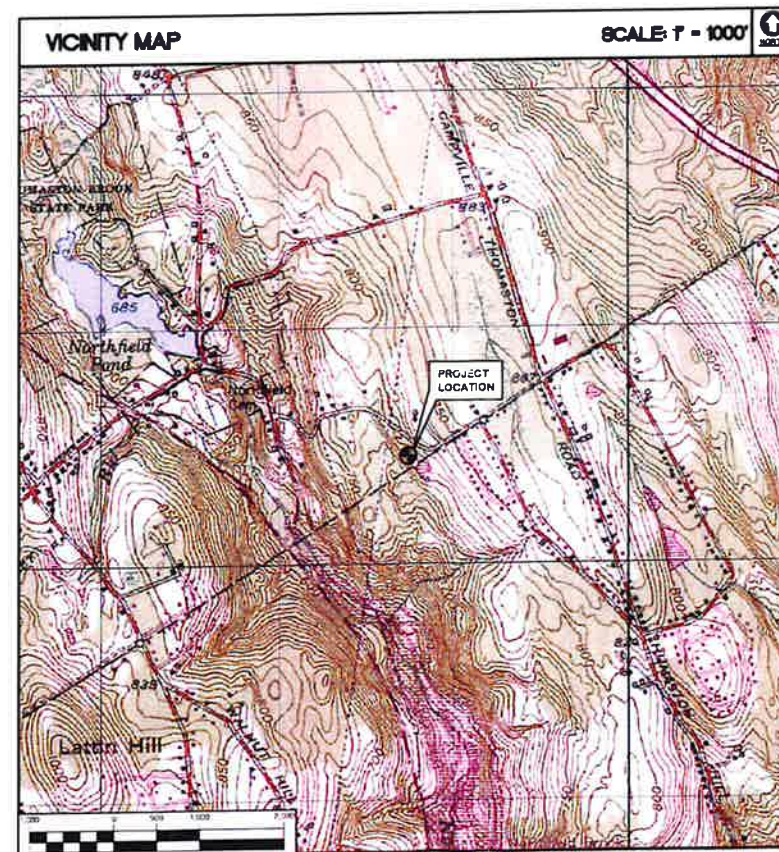
PLYMOUTH NW 2 CT

MASON HILL ROAD

NORTHFIELD, CT 06778

SITE DIRECTIONS	
FROM:	TO:
20 ALEXANDER DRIVE, WALLINGFORD, CT	PROPOSED TOWER SITE ENTRANCE ON MASON HILL ROAD, NORTHFIELD, CT
1. START OUT NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL PARK RD.	0.2 MI.
2. TURN RIGHT ONTO BARNES INDUSTRIAL PARK RD.	0.1 MI.
3. TAKE FIRST LEFT ONTO CT-68.	0.4 MI.
4. TURN RIGHT ONTO RAMP.	0.2 MI.
5. TURN RIGHT ONTO N COLONY RD/US-5 N.	0.3 MI.
6. MERGE ONTO CT-15 N TOWARD HARTFORD.	3.9 MI.
7. MERGE ONTO I-891 W VIA EXIT 69W TOWARD MERIDEN/WATERBURY.	7.8 MI.
8. TAKE THE I-84 W EXIT, EXIT 1, ON THE LEFT TOWARD DANBURY WATERBURY.	0.4 MI.
9. STAY STRAIGHT TO GO ON I-84 W.	8.2 MI.
10. MERGE ONTO CT-8 N VIA EXIT 20 TOWARD TORRINGTON.	0.2 MI.
11. TAKE THE CT-254 EXIT, EXIT 38, TOWARD THOMASTON/US-6 W/CT-109.	0.1 MI.
12. KEEP LEFT TO TAKE THE WATERBURY ROAD RAMP TOWARD THOMASTON.	1.1 MI.
13. TURN LEFT ONTO WATERBURY ROAD/CT-254. CONTINUE TO FOLLOW CT-254.	2.1 MI.
14. TURN LEFT ONTO NORTHFIELD ROAD/CT-254.	0.3 MI.
15. TURN RIGHT ONTO KNIFE SHOP ROAD.	0.2 MI.
16. TAKE FIRST RIGHT ONTO MASON HILL ROAD.	0.1 MI.
17. TAKE THE FIRST LEFT TO STAY ON MASON HILL ROAD.	0.2 MI.
18. THE ENTRANCE TO THE PROPOSED TOWER FACILITY IS ON THE RIGHT.	

SITE INFORMATION	
THE SCOPE OF WORK SHALL GENERALLY INCLUDE:	
1. CONSTRUCTION OF A ±50' x 50' FENCED COMMUNICATIONS FACILITY COMPOUND WITHIN A PROPOSED 100' x 100' CELCO PARTNERSHIP LEASE AREA.	
2. THE PROPOSED ±110' TALL STEEL MONOPOLE COMMUNICATIONS TOWER TO BE LOCATED WITHIN THE PROPOSED FENCED COMPOUND.	
3. THE PROPOSED CELCO PARTNERSHIP GROUND EQUIPMENT INSTALLATION TO CONSIST OF (2) EQUIPMENT CABINETS AND A PROPANE FUELED BACKUP POWER GENERATOR LOCATED ON A PROPOSED 10' x 16' CONCRETE PAD WITHIN THE FENCED COMPOUND AREA.	
4. A 500 GALLON ABOVE-GROUND PROPANE TANK IS PROPOSED WITHIN THE COMPOUND FENCE FOR FUEL SUPPLY TO THE PROPOSED BACKUP POWER GENERATOR.	
5. FACILITY ACCESS WILL BE VIA AN EXISTING CURB CUT ON MASON HILL ROAD. CELCO PARTNERSHIP SHALL UTILIZE APPROXIMATELY 300' OF THE EXISTING DIRT/GRAVEL DRIVE WITH AN ADDITIONAL ±130' OF PROPOSED GRAVEL ACCESS DRIVE ROUTED TO THE PROPOSED FACILITY.	
6. THE PROPOSED TOWER RF INSTALLATION TO CONSIST OF A TOTAL OF (8) PANEL ANTENNAS, (8) REMOTE RADIO UNITS (RRUs), (1) SURGE ARRESTOR AND (1) HYBRID CABLE AND ASSOCIATED JUMPER CABLES.	
7. FINAL DESIGN FOR TOWER AND TOWER FOUNDATION SHALL BE INCLUDED IN THE DAM PLANS.	
8. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2022 CONNECTICUT SUPPLEMENT, INCLUDING THE IBC/IBC-222 REVISION "4" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2022 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.	
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.	



PROJECT SUMMARY	
SITE NAME:	PLYMOUTH NW 2 CT
SITE ADDRESS:	MASON HILL ROAD NORTHFIELD, CT 06778
PROPERTY OWNER:	WILLIAMS JOYCE S 420 MICHELLE LANE THOMASTON, CT 06787
LESSEE/TENANT:	CELCO PARTNERSHIP d/b/a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
VERIZON SITE ACQUISITION CONTACT:	CHUCK BRUTOMESSO AIROSMITH DEVELOPMENT (800) 308-8355
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE (860) 278-8345
PROPOSED TOWER COORDINATES:	LATITUDE 41°-41'-45.50" LONGITUDE 73°-05'-37.49" GROUND ELEVATION: 791.61± A.M.S.L.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	B
C-1	ABUTTERS MAP AND LIST	B
C-2	PARTIAL SITE/SITE SURVEY PLAN	B
C-3	PARTIAL SITE/ GRADING PLAN	B
C-4	FACILITY ELEVATION AND ANTENNA MOUNTING CONFIG.	B
C-5	SITE DETAILS AND NOTES	B
C-6	MISCELLANEOUS DETAILS	B
C-7	RF DETAILS	B

CENTEK Engineering
 446-0880 Fax
 446-8397
 202 Northfield Road
 Northfield, CT 06778
 www.CentekEng.com

Celco Partnership d/b/a Verizon Wireless

PLYMOUTH NW 2 CT
 MASON HILL ROAD
 NORTHFIELD, CT 06778

DATE: 07/11/22
 SCALE: AS NOTED
 JOB NO. 21088.07

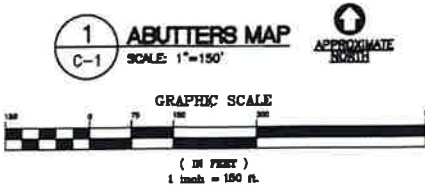
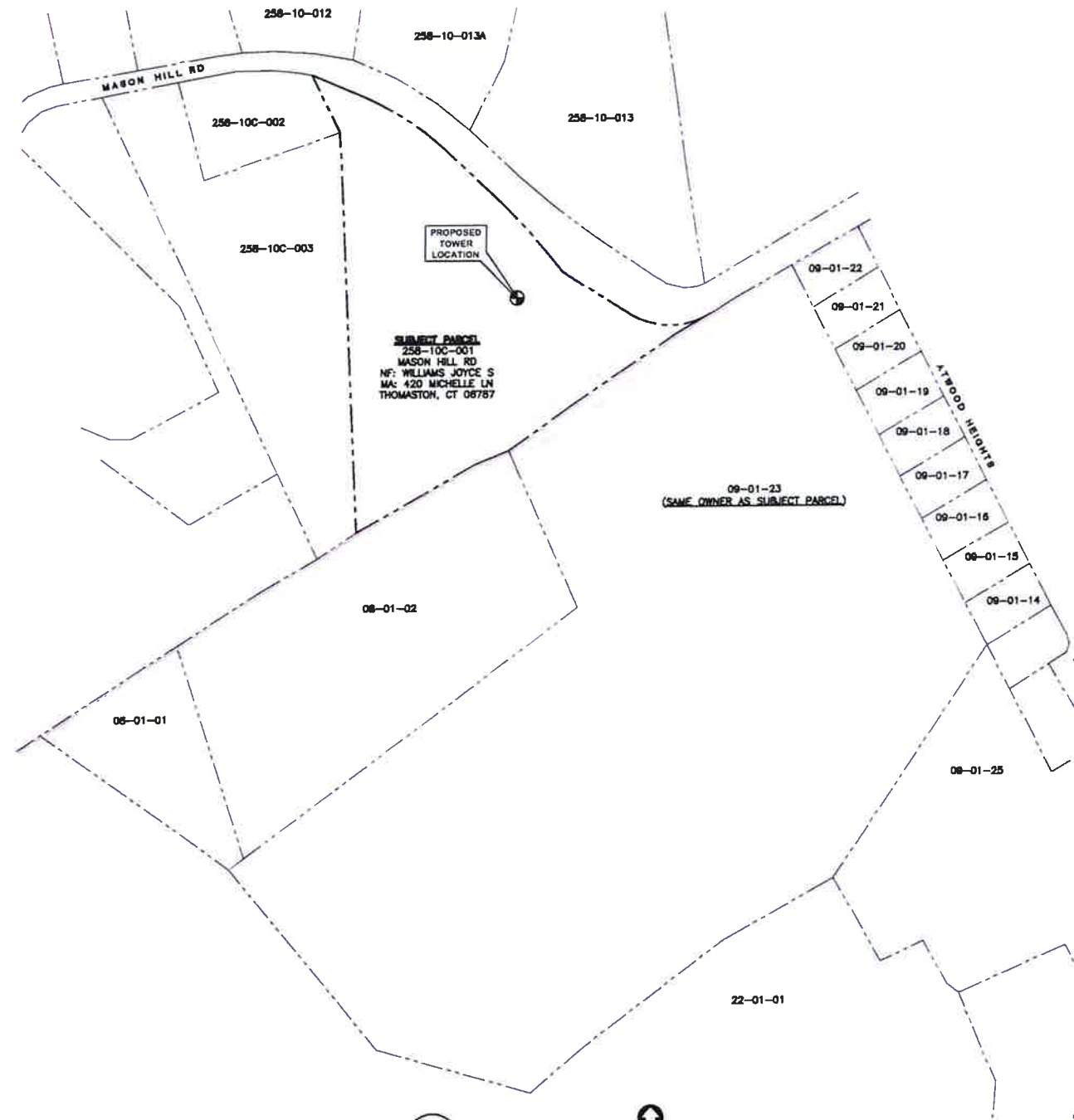
TITLE SHEET

T-1

Sheet No. 1 of 3

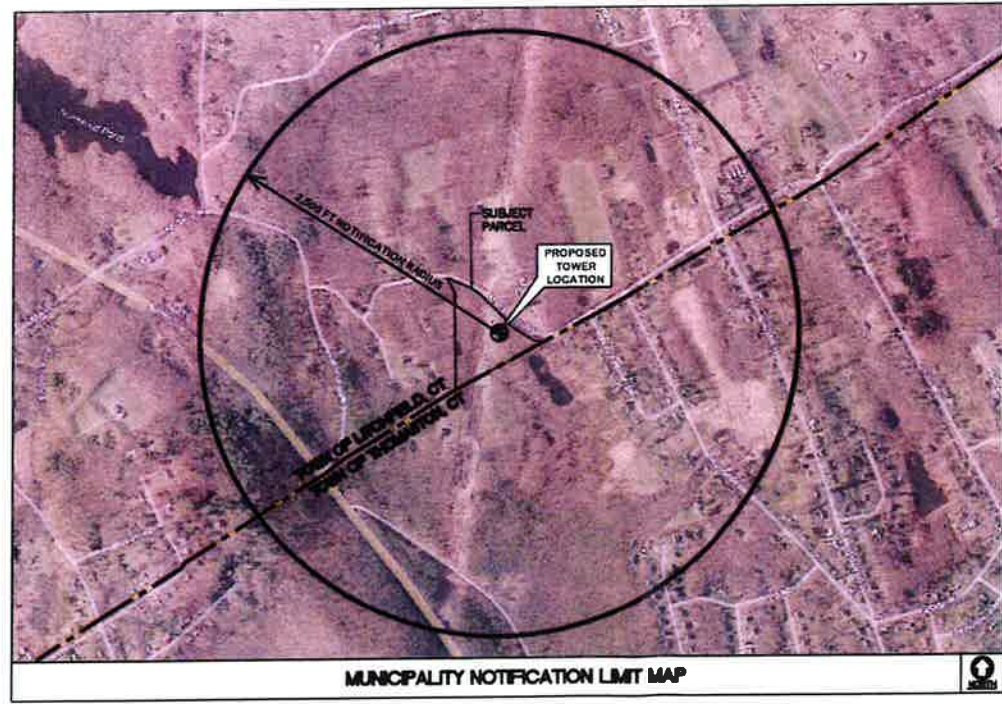
ABUTTERS MAP REFERENCE NOTE

PROPERTY LINES AND PARCEL INFORMATION SHOWN HEREIN ARE REFERENCED FROM TOWN OF NORTHFIELD, CT & TOWN OF THOMASTON, CT ON-LINE GIS DATABASES.



ABUTTERS LIST

PARCEL ID	ADDRESS	OWNER	OWNER ADDRESS
258-10C-003	471 MASON HILL RD	LATOUF RICHARD J	471 MASON HILL RD, NORTHFIELD, CT 06778
258-10C-002	448 MASON HILL RD	SIMONE FRANK J & LISA M	448 MASON HILL RD, NORTHFIELD, CT 06778
258-10-012	408 MASON HILL RD	SOLIDAY MARTHA J	408 MASON HILL RD, NORTHFIELD, CT 06778
258-10-013A	382 MASON HILL RD	VOLLUCKAS MARK	382 MASON HILL RD, NORTHFIELD, CT 06778
258-10-013	282 MASON HILL RD	VOLLUCKAS DONALD A & DIANNE G	282 MASON HILL RD, NORTHFIELD, CT 06778
08-01-23	78 MASON HILL RD	WILLIAMS JOYCE S	420 MICHELLE LANE SOUTH, THOMASTON, CT 06787
08-01-22	125 ATWOOD HEIGHTS	HANNON RONDAM	125 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-21	115 ATWOOD HEIGHTS	WATERS MARCUS & MCCLARY	115 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-20	103 ATWOOD HEIGHTS	HULTS MICHAEL	103 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-19	95 ATWOOD HEIGHTS	CURTISS MARGAR	95 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-18	85 ATWOOD HEIGHTS	DISTASI ANGELINO	85 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-17	75 ATWOOD HEIGHTS	TYRAN JOSEPH & BRIAN	75 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-16	65 ATWOOD HEIGHT	SAVOY ROBERT T	65 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-15	57 ATWOOD HEIGHT	GRENIER JAMES F	57 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-14	47 ATWOOD HEIGHT	BALDWIN DAVID H & CYNTHIA B	47 ATWOOD HEIGHTS, THOMASTON, CT 06787
08-01-25	195 ATWOOD RD	HOPKINS RUTH P	195 ATWOOD RD, THOMASTON, CT 06787
22-01-01	511 LITCHFIELD ST	UNITED STATES OF AMERICA	360 BRANCH RD, THOMASTON, CT 06787
08-01-02	52 PENFIELD DR	DOBOS GREGORY J & ELIZABETH	52 PENFIELD DR, THOMASTON, CT 06787
08-01-01	49 PENFIELD DR	VERDOSCI RONALD JR	49 PENFIELD DR, THOMASTON, CT 06787



MUNICIPALITY NOTIFICATION LIMIT MAP

Cellco Partnership d/b/a Verizon Wireless
PLYMOUTH NW 2 CT
 MASON HILL ROAD
 NORTHFIELD, CT 06778

DATE: 07/11/22
 SCALE: AS NOTED
 JOB NO. 21098.07

ABUTTERS MAP AND LIST

C-1

Sheet No. 2 of 2

PROFESSIONAL ENGINEER SEAL
 CENTEK Engineering
 www.CentekEng.com
 (203) 488-0080
 (203) 488-0087 Fax
 65-2 North Star Road
 Branford, CT 06460

0-10/09/22
 A-07/18/22
 DATE
 DRAWN BY
 CHECKED BY
 DESCRIPTION

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. 26, 1996. IT IS A DATA ACCUMULATION PLAN AND IS BASED UPON LIMITED FIELD DATA AND REFERENCE MAPS CONFORMING TO A HORIZONTAL ACCURACY CLASS 3 AND IS INTENDED TO BE USED TO DEPICT A PROPOSED WIRELESS COMMUNICATIONS 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 NAD 83 VERTICAL DATUM IS NAVD 88.

PARCEL OWNER OF RECORD: JOYCE S. WILLIAMS
MASON HILL ROAD
LITCHFIELD, CT 06778
M/L: 420 MICHELLE LM
THOMASTON, CT 06787
DEED REFERENCES: VOL. 251 P. 1006

PARCEL AREA = ± 8.17

PARCEL IS IN "R-80" ZONING DISTRICT

PARCEL ID: MAP 258 BLOCK 10C LOT 001 LITCHFIELD ASSESSOR'S OFFICE

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

NOT ALL IMPROVEMENTS SHOWN.

MAP REFERENCES

- 1) MAP ENTITLED "MAP PREPARED FOR RUTH M. PIERPONT, MASON HILL ROAD, TOWN OF LITCHFIELD, COUNTY OF LITCHFIELD, STATE OF CONNECTICUT" SCALE: 1"= 40', DATED AUGUST, 1971 ON FILE IN THE LITCHFIELD TOWN CLERKS OFFICE.
- 2) MAP ENTITLED "PLAN OF PROPERTY OWNED BY HENRY MUSCH, VILLAGE OF NORTHFIELD, LITCHFIELD CONN." SCALE: 1"= 100', DATED DEC. 1945 ON FILE IN THE LITCHFIELD TOWN CLERKS OFFICE.

TO MY KNOWLEDGE AND BELIEF, THIS MAP/ PLAN IS SUBSTANTIALLY COMPLETE AS NOTED HEREON. THIS MAP/ PLAN IS NOT VALID UNLESS IT BEARS THE EMBOSSED TYPE SEAL OVER A LIVE SIGNATURE OF THE SURVEYOR WHOSE NAME AND LICENSE NUMBER APPEARS ON THIS MAP/ PLAN.

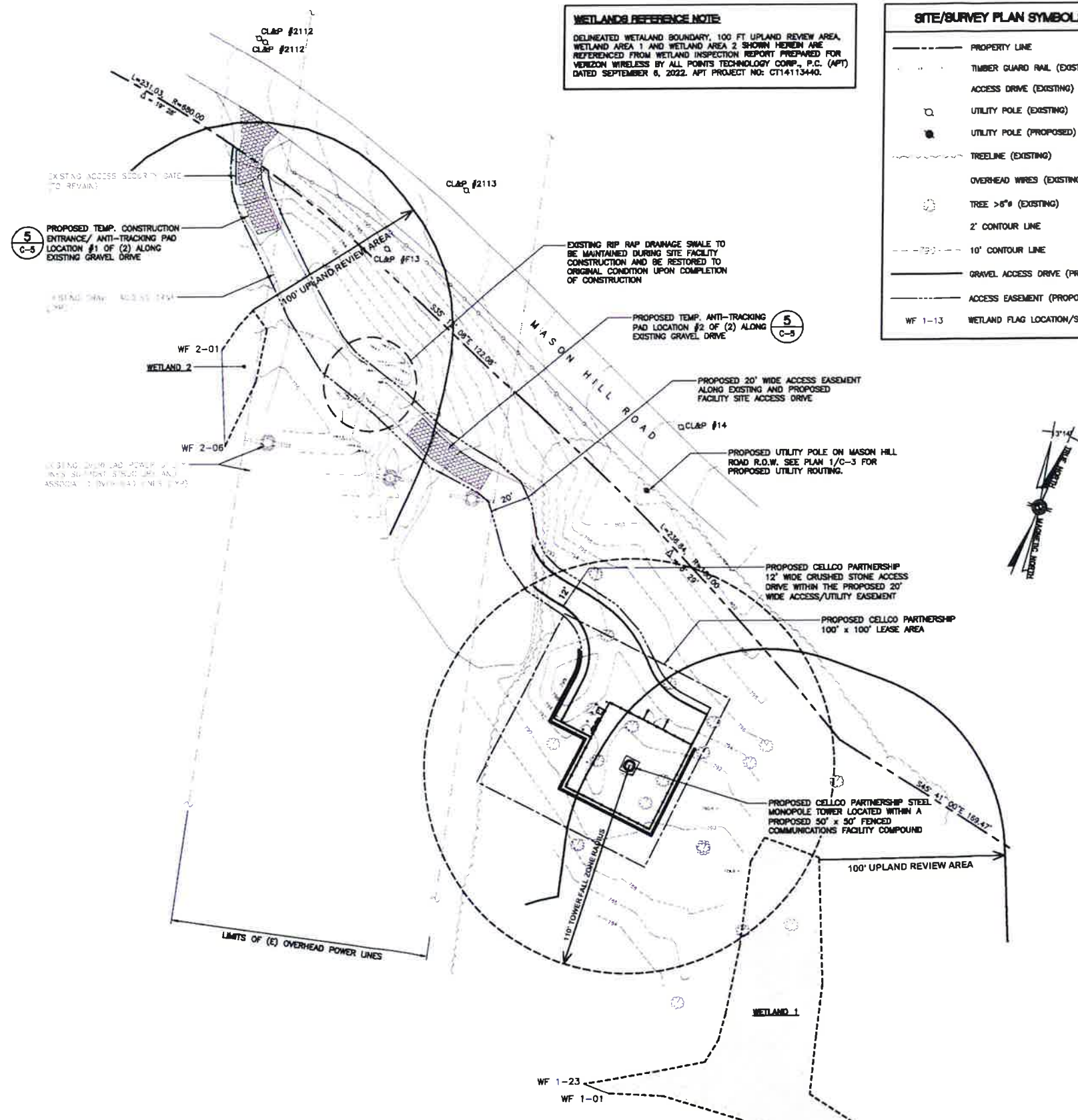
DERRICK R. SCHULL P.E., L.S. #15566 DATE

WETLANDS REFERENCE NOTE:

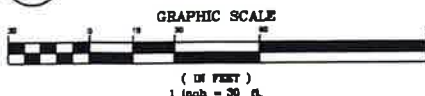
DELINEATED WETLAND BOUNDARY, 100 FT UPLAND REVIEW AREA, WETLAND AREA 1 AND WETLAND AREA 2 SHOWN HEREIN ARE REFERENCED FROM WETLAND INSPECTION REPORT PREPARED FOR VERIZON WIRELESS BY ALL POINTS TECHNOLOGY CORP., P.C. (APT) DATED SEPTEMBER 6, 2022. APT PROJECT NO: CT14113440.

SITE/SURVEY PLAN SYMBOLS LEGEND

---	PROPERTY LINE
---	TIMBER GUARD RAIL (EXISTING)
---	ACCESS DRIVE (EXISTING)
○	UTILITY POLE (EXISTING)
●	UTILITY POLE (PROPOSED)
---	TREELINE (EXISTING)
---	OVERHEAD WIRES (EXISTING)
○	TREE >6" (EXISTING)
---	2' CONTOUR LINE
---	10' CONTOUR LINE
---	GRAVEL ACCESS DRIVE (PROPOSED)
---	ACCESS EASEMENT (PROPOSED)
WF 1-13	WETLAND FLAG LOCATION/SERIES DESIGNATION



1 PARTIAL SITE/ SITE SURVEY PLAN
C-2 SCALE: 1"= 30'



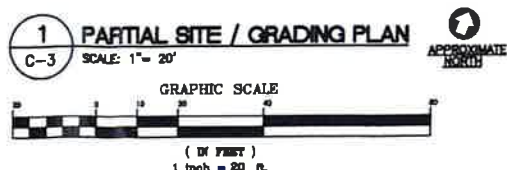
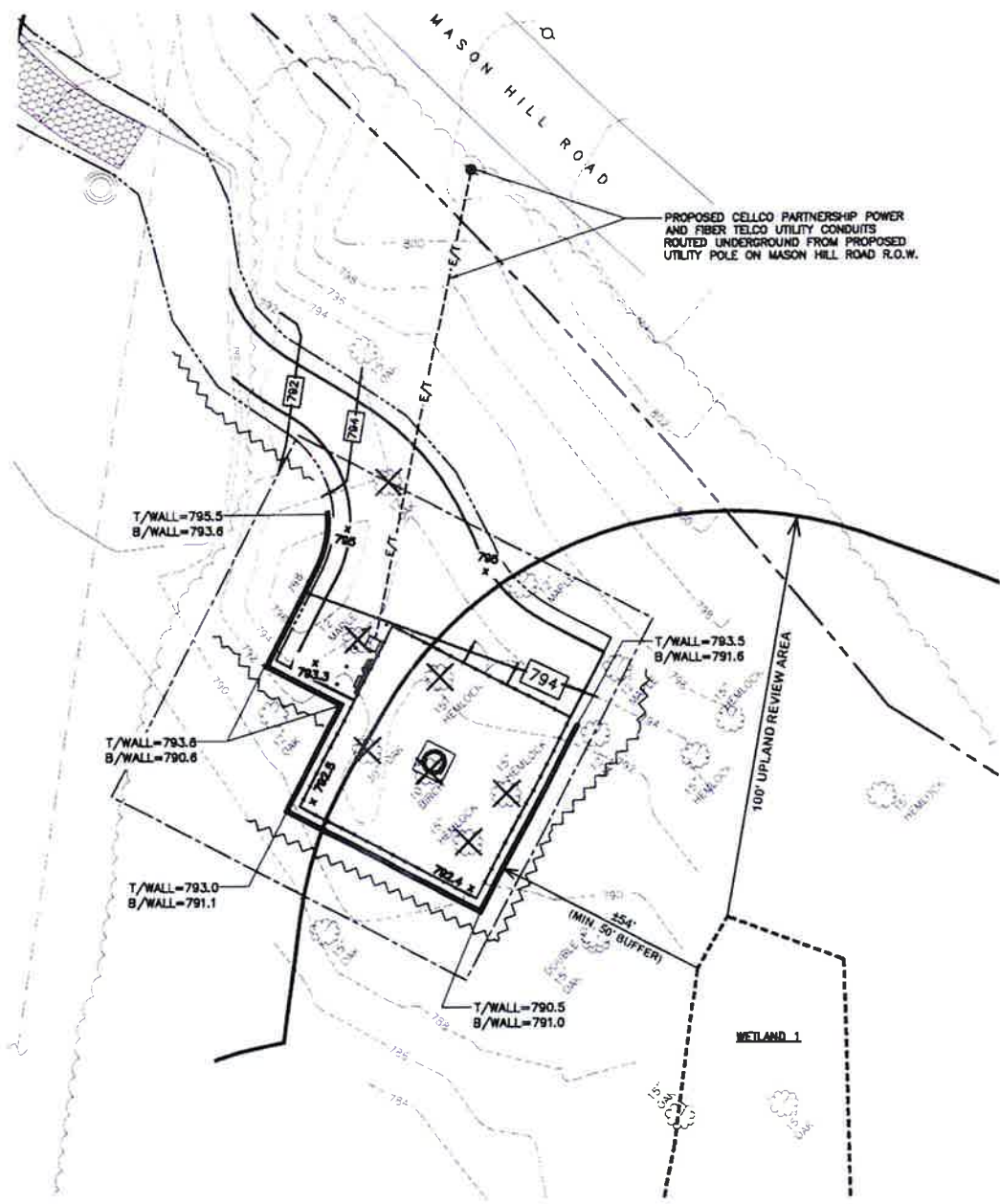
Cellco Partnership d/b/a Verizon Wireless PLYMOUTH NW 2 CT MASON HILL ROAD NORTHFIELD, CT 06778	
DATE:	07/11/22
SCALE:	AS NOTED
JOB NO.:	21088.07
PARTIAL SITE/ SITE SURVEY PLAN	
<h1>C-2</h1>	
Sheet No. 3 of 3	

NOTES

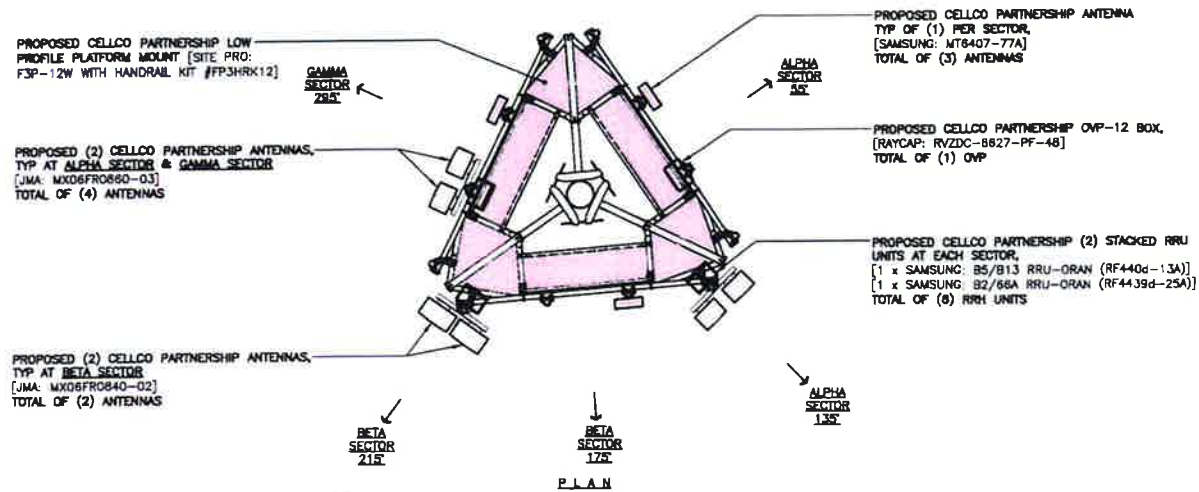
1. PROPOSED UTILITY ROUTING SHOWN HEREIN IS SCHEMATIC. FINAL ROUTING TO BE COORDINATED WITH UTILITY PROVIDERS AND PROPERTY OWNER DURING THE DBM PHASE OF THE PROJECT.
2. DELINEATED WETLAND BOUNDARY, 100 FT UPLAND REVIEW AREA, WETLAND AREA 1 AND WETLAND AREA 2 SHOWN HEREIN ARE REFERENCED FROM WETLAND INSPECTION REPORT PREPARED FOR VERIZON WIRELESS BY ALL POINTS TECHNOLOGY CORP., P.C. (APT) DATED SEPTEMBER 8, 2022. APT PROJECT NO: CT14113440.

SITE/SURVEY PLAN SYMBOLS LEGEND

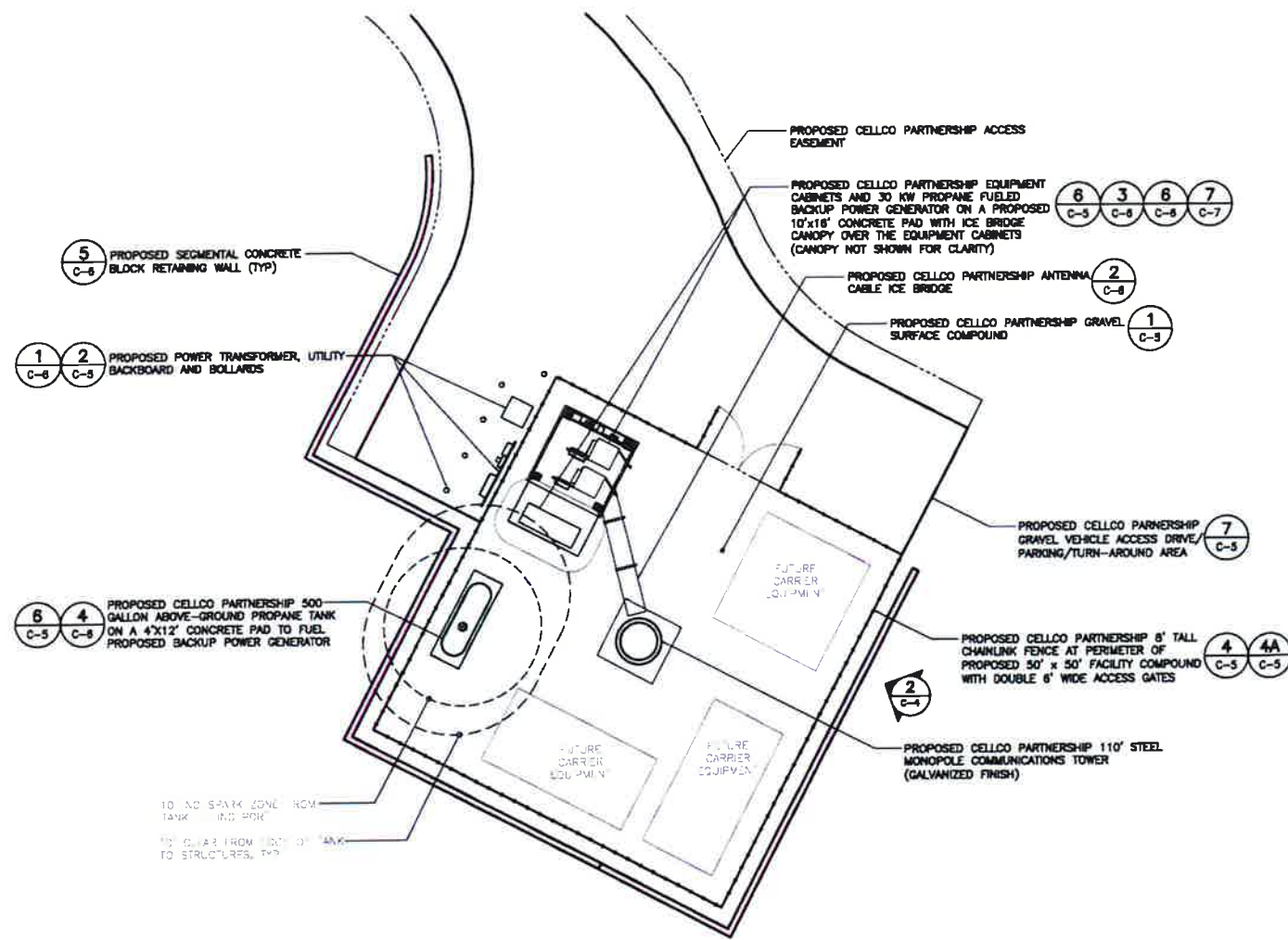
	PROPERTY LINE
	TIMBER GUARD RAIL (EXISTING)
	ACCESS DRIVE (EXISTING)
	UTILITY POLE (EXISTING)
	UTILITY POLE (PROPOSED)
	TREELINE (EXISTING)
	OVERHEAD WIRES (EXISTING)
	TREE >6" (EXISTING)
	TREE >6" TO BE REMOVED
	2' CONTOUR LINE
	10' CONTOUR LINE
	GRAVEL ACCESS DRIVE (PROPOSED)
	GRADING LINE/ELEVATION
	SPOT ELEVATION (PROPOSED)
	U/G ELECT. AND TELCO UTILITY CONDUITS (PROPOSED)
	ACCESS EASEMENT (PROPOSED)
	SILTATION FENCE/COMPOST FILTER SOCK EROSION CONTROL
	WF 1-13 WETLAND FLAG LOCATION/DESIGNATION



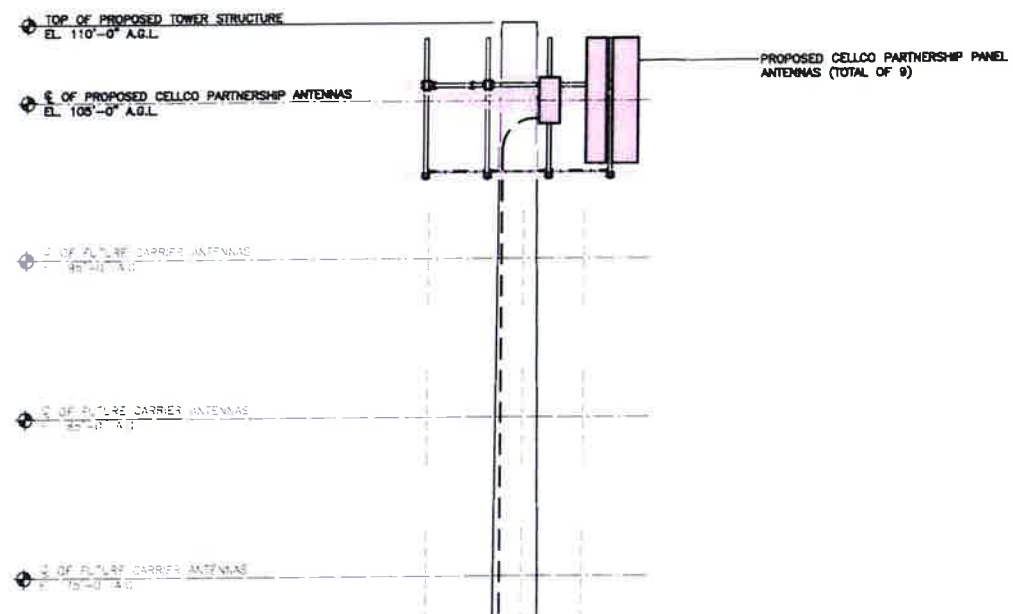
<p>CENTEK Engineering, Inc. (203) 448-0360 Fax: (203) 448-8527 65-2 North Ironstone Road Branford, CT 06405 www.CentekEng.com</p>	
<p>Cellco Partnership d/b/a Verizon Wireless</p> <p>PLYMOUTH NW 2 CT</p> <p>MASON HILL ROAD NORTHFIELD, CT 06778</p>	
DATE:	07/11/22
SCALE:	AS NOTED
JOB NO.:	21088.07
<p>PARTIAL SITE/ GRADING PLAN</p>	
<p>C-3</p> <p>Sheet No. 1 of 3</p>	



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



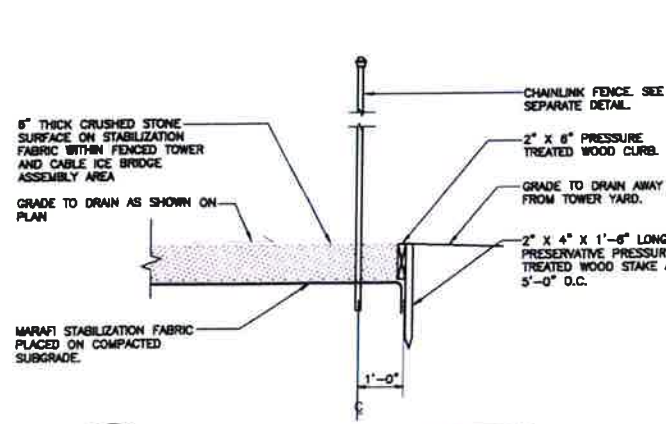
1 COMPOUND PLAN
C-3 SCALE: 1" = 10'
GRAPHIC SCALE
(IN FEET)
1 inch = 10 ft.



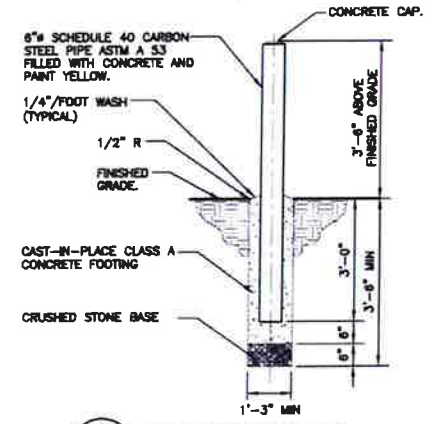
2 EASTERN FACILITY ELEVATION
C-4 SCALE: 3/16" = 1'

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

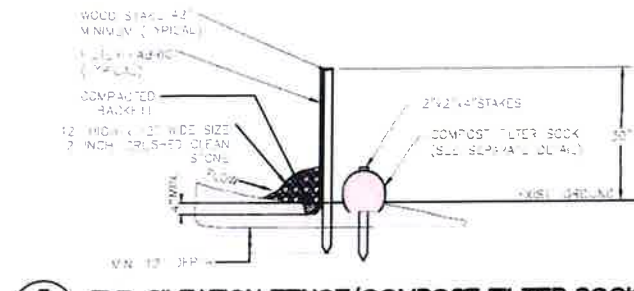
PROFESSIONAL ENGINEER SEAL	
	<p>CELLCO PARTNERSHIP d/b/a Verizon Wireless</p> <p>PLYMOUTH NW 2 CT</p> <p>MASON HILL ROAD NORTHFIELD, CT 06778</p>
<p>DATE: 07/11/22</p> <p>SCALE: AS NOTED</p> <p>JOB NO. 21098L07</p>	<p>FACILITY ELEVATION AND ANTENNA MOUNTING CONFIG.</p> <p>C-4</p> <p>Sheet No. 3 of 3</p>



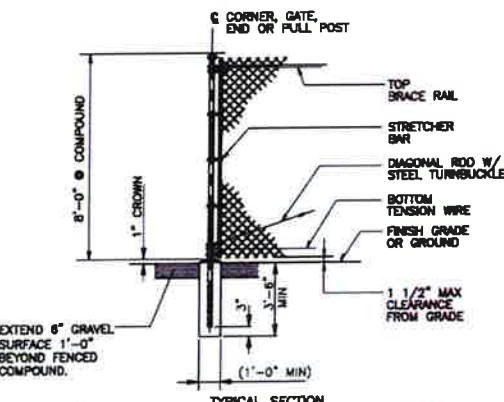
1 COMPOUND SURFACING DETAIL
C-5 NOT TO SCALE



2 BOLLARD DETAIL
C-5 NOT TO SCALE



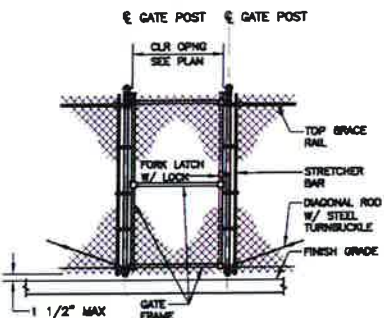
3 TYP. SILTATION FENCE/COMPOST FILTER SOCK EROSION CONTROL DETAIL
C-5 NOT TO SCALE



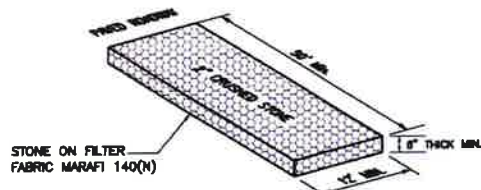
4 WOVEN WIRE FENCE DETAIL
C-5 NOT TO SCALE

WOVEN WIRE FENCE NOTES:

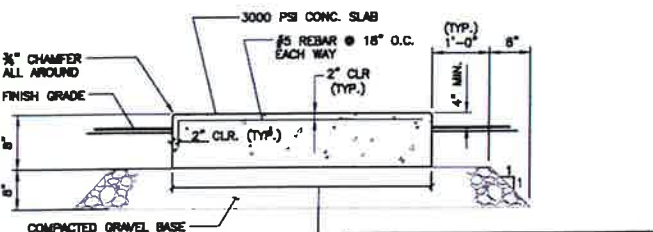
- GATE POST, CORNER, TERMINAL OR PULL POST 2" SCHEDULE 40 PIPE FOR GATE WIDTHS UP THRU 8 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1063.
- LINE POST: 2" SCHEDULE 40 PIPE PER ASTM-F1063.
- GATE FRAME: 1" SCHEDULE 40 PIPE PER ASTM-F1063.
- TOP RAIL & BRACE RAIL: 1" SCHEDULE 40 PIPE PER ASTM-F1063.
- FABRIC: 12 GA. CORE WIRE SIZE 1" MESH, CONFORMING TO ASTM-A392.
- 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.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- GATE LATCH: DROP DOWN LOCKABLE FORK HATCH AND LOCK, KEYS TO OWNER'S REQUIREMENTS.
- HEIGHT = 6' VERTICAL.



4A WOVEN WIRE SINGLE SWING GATE
C-5 NOT TO SCALE

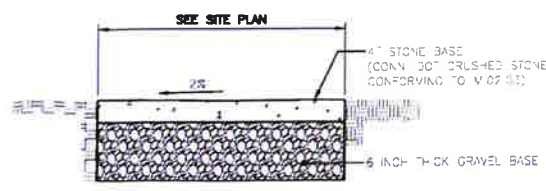


5 CONSTRUCTION ENTRANCE ANTI-TRACKING PAD
C-5 NOT TO SCALE



- 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.
- EQUIPMENT/GEN. PAD SIZE: 10'-0" x 16'-0"
PROPANE TANK PAD SIZE: 4'-0" x 12'-0"

6 CONCRETE EQUIPMENT/TANK PAD DETAIL
C-5 NOT TO SCALE



7 GRAVEL SURFACE ACCESS DRIVE/PARKING AREA
C-5 NOT TO SCALE

GENERAL CONSTRUCTION SEQUENCE

THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.

- CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO PREVENT EROSION.
- PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
- INSTALL UNDERGROUND UTILITIES.
- BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
- DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
- FINISH ALL ROADWAYS, DRIVES, AND PARKING AREAS.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGARDED AREAS.
- AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDING AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

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 RESTABILIZATIONS 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 SILTATION FENCE. 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 SOODING 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 8 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 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.

MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 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.

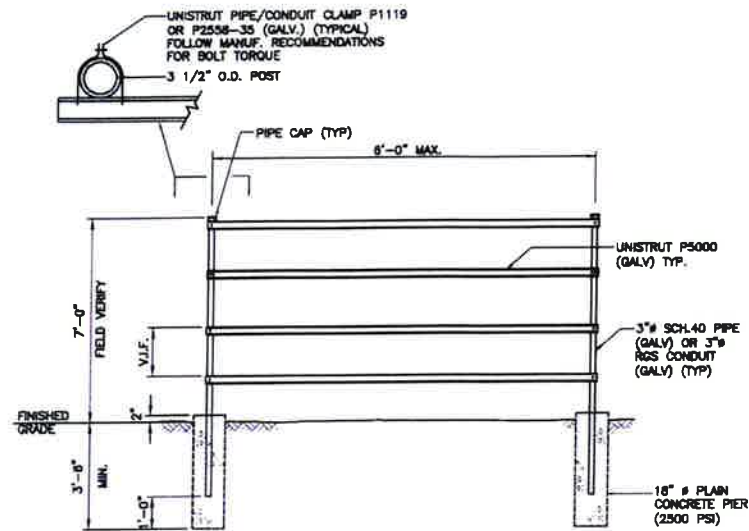
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SCALE: AS NOTED
JOB NO. 21058.07

verizon

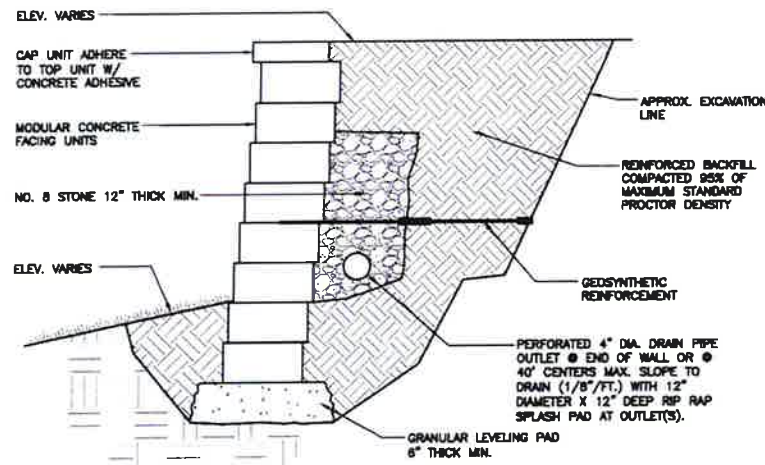
CENTEK Engineering
203) 488-0480
203) 488-8507 fax
35-2 North Branch Road
Branford, CT 06460
www.CentekEng.com

PLYMOUTH NW 2 CT
MASON HILL ROAD
NORTHFIELD, CT 06778

C-5
Sheet No. 5 of 5



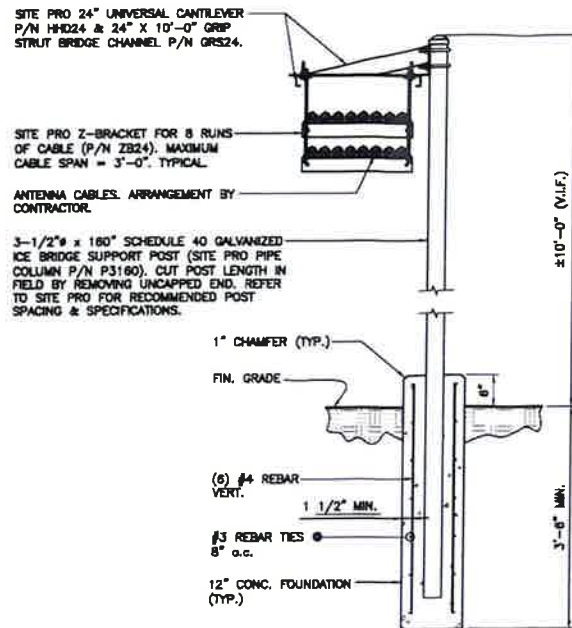
1 UTILITY BACKBOARD FRAME CONSTRUCTION DETAIL (TYP)
C-6 NOT TO SCALE



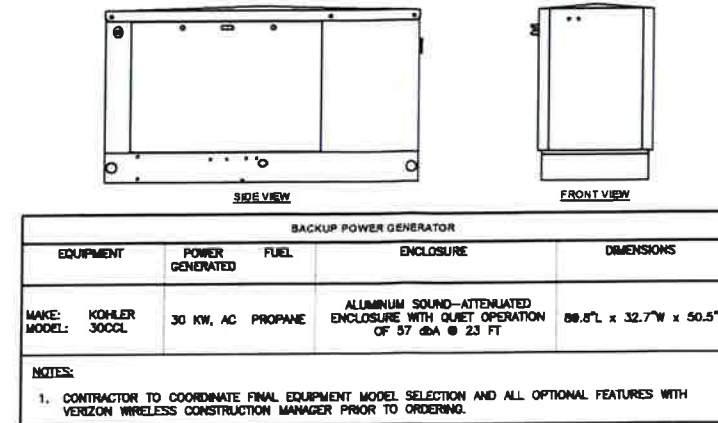
SEGMENTAL RETAINING WALL NOTES:

1. STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
2. BENCH CUT ALL EXCAVATED SLOPES.
3. DO NOT OVER EXCAVATE UNLESS DIRECTED BY SITE SOIL ENGINEER TO REMOVE UNSUITABLE SOIL.
4. SITE SOIL ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
5. BASE SHALL CONSIST OF COMPACTED GRAVEL, 6" THICK MINIMUM.
6. CONTRACTOR MAY OPT FOR A LEAN CONCRETE PAD. CONCRETE PAD SHALL BE UNREINFORCED, 4" THICK.
7. MINIMUM EMBEDMENT OF WALL BELOW FINISHED GRADE SHALL BE (2) COURSES OF BLOCK.
8. FOLLOW APPLICABLE PROVISIONS OF THE WALL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
9. NUMBER 8 CRUSHED STONE SHALL BE INSTALLED BEHIND THE WALL UP TO 18" FROM THE TOP OF THE WALL. CRUSHED STONE SHALL NOT EXTEND BELOW FINISHED GRADE IN FRONT OF THE WALL.
10. WHERE DRAIN PIPE IS USED, PROVIDE OUTLETS @ MAXIMUM 40 FT O.C.
11. FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME BACKFILL BEHIND UNITS IS COMPACTED.
12. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE ENGINEER.
13. COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-998)
14. REFER TO MANUFACTURER SHOP DRAWINGS FOR GEOSYNTHETIC TYPE, LENGTH AND LOCATION REQUIRED. PULL GEOSYNTHETIC TIGHT PRIOR TO BACKFILLING. GEOSYNTHETIC SHALL BE PLACED WITH STRONGEST DIRECTION PERPENDICULAR TO WALL. FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
15. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE COMPLETE WALL SYSTEM AND ALL DETAILS BASED ON THE ACTUAL SOILS IN THE FIELD. THE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
16. IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

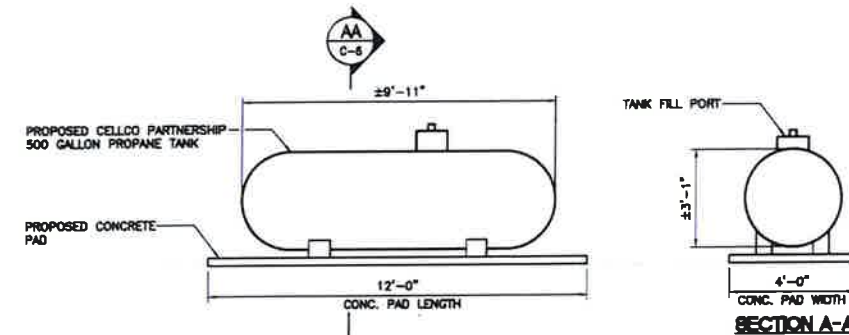
5 SEGMENTAL RETAINING WALL DETAIL
C-6 NOT TO SCALE



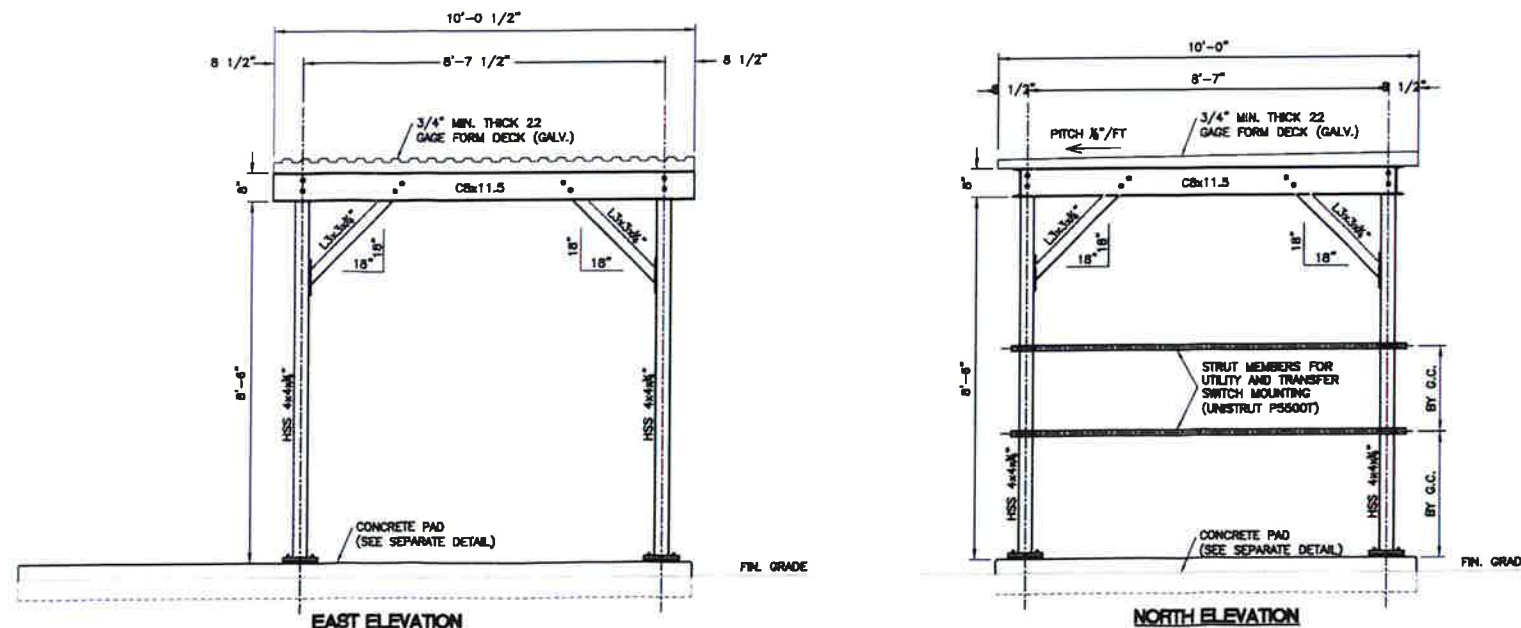
2 ANTENNA CABLE ICE BRIDGE DETAIL
C-6 NOT TO SCALE



3 BACK-UP POWER GENERATOR
C-6 NOT TO SCALE



4 ABOVE-GROUND PROPANE TANK
C-6 NOT TO SCALE



6 EQUIPMENT ICE BRIDGE CANOPY ELEVATIONS
C-6 NOT TO SCALE

PROFESSIONAL ENGINEER SEAL

verizon

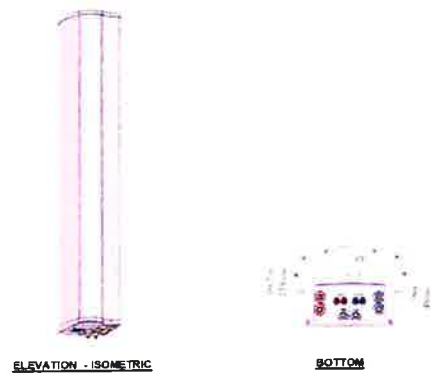
CENTEK Engineering
Construction Solutions
(203) 486-0580
(203) 486-9587 Fax
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
PLYMOUTH NW 2 CT
MASON HILL ROAD
NORTHFIELD, CT 06778

DATE: 07/11/22
SCALE: AS NOTED
JOB NO. 21098.07

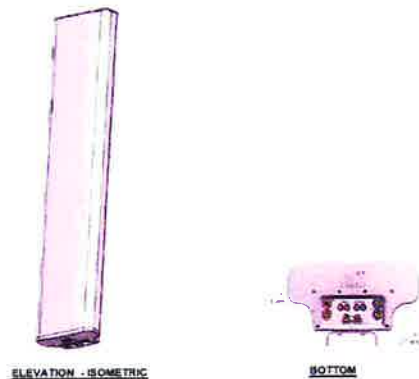
MISCELLANEOUS DETAILS

C-6
Sheet No. 7 of 8



6-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: JMA MODEL: M006FR0660-03	96.9"L x 15.4"W x 10.7"D	85 LBS. (W/OUT MOUNT KIT)

1 SECTOR ANTENNA DETAIL
C-7 NOT TO SCALE



6-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: JMA MODEL: M006FR0640-02	95.9"L x 19.8"W x 10.7"D	98 LBS. (W/OUT MOUNT KIT)

2 SECTOR ANTENNA DETAIL
C-7 NOT TO SCALE



SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT8407-77A	35.1"H x 18.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)

CLEARANCES AND SERVICE AREA		
TOP:	31.5"	HORIZONTAL DISTANCE: 31.5" (ANT. TO ANT.)
FRONT, SIDES & BOTTOM:	15.7"	VERTICAL DISTANCE: 63.0" (ANT. TO ANT.)

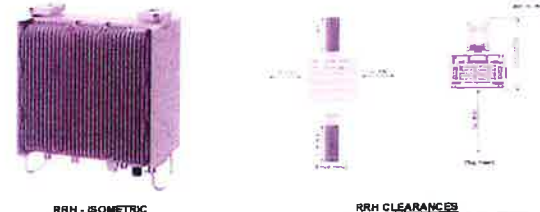
NOTES:
1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.

3 SECTOR ANTENNA DETAIL
C-7 NOT TO SCALE



DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF4438H-25A	B2: PCS (1900 MHz) B8B: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	74.7 LBS.

4 DUAL-BAND AWS/PCS MACRO RADIO UNIT DETAIL
C-7 NOT TO SCALE



DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF440H-13A	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 9.0"D	70.3 LBS.

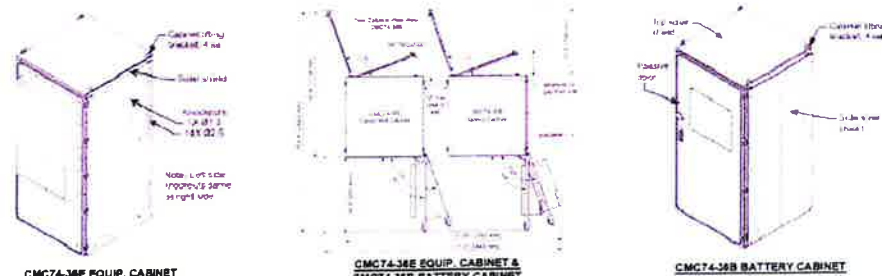
5 DUAL-BAND 700/850 MHZ MACRO RADIO UNIT DETAIL
C-7 NOT TO SCALE



OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: RVZDC-8627-PF-48	19.18"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.

6 PROPOSED OVER-VOLTAGE PROTECTION BOX
C-7 NOT TO SCALE



EQUIPMENT / BATTERY CABINET & BATTERY CABINET					
CABINET TYPE	MAKE/MODEL	SUB-MODEL/OPTIONS	DIMENSIONS	WT. (EMPTY MAX. WT. W/OUT PLINTH)	WT. (WITH EQUIP./BATTERIES)
EQUIP. CABINET	MAKE: COMMSCOPE MODEL: CMC74-38E	780250058/ 4KW DC AIR CONDITIONER	74.8"H x 38.4"W x 37.2"D	525 LBS. (MAX.)	VARIES
BATTERY CABINET	MAKE: COMMSCOPE MODEL: CMC74-38B	780250540/ 1 KW HVAC DOOR, 500 W HEATER, 8 BATTERY STRINGS	74.8"H x 38.4"W x 37.2"D	1,080 LBS. (MAX.)	1,237 LBS. (MAX.)

7 EQUIPMENT CABINET / BATTERY CABINET
C-7 NOT TO SCALE

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Central CT Services
(203) 486-0580
(203) 486-8387 Fax
652 Northbrook Road
Stamford, CT 06405
www.CentekEng.com

Calico Partnership d/b/a Verizon Wireless

PLYMOUTH NW 2 CT

MASON HILL ROAD
NORTHFIELD, CT 06778

DATE: 07/11/22
SCALE: AS NOTED
JOB NO. 2108017

RF DETAILS

C-7
Sheet No. 2 of 2

ATTACHMENT 4



PRELIMINARY VISUAL ASSESSMENT

Date: October 14, 2022

To: Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

From: Brian Gaudet, Project Manager

Re: Proposed Telecommunications Facility
Mason Hill Road
Northfield (Litchfield), Connecticut

Verizon Wireless ("Verizon") has identified a proposed location for development of a wireless telecommunications facility on Mason Hill Road in the village of Northfield in the Town of Litchfield, Connecticut (the "Host Property"). The proposed Facility would include a 110-foot-tall steel monopole and associated ground equipment located in a fenced compound.

The Host Property is a ±8.17-acre, mostly undeveloped parcel; an electric utility Right-of-Way ("ROW") extends generally north to south through the Host Property and beyond. The Facility would be located within a 50-foot by 50-foot compound located in the southeastern portion of the Host Property (the "Site"). The Host Property is located on the border of Litchfield and Thomaston south of Mason Hill Road. Land use in the immediate vicinity consists of a mix of residential development and forested areas.

At the request of Verizon, All-Points Technology Corporation, P.C. ("APT") has prepared initial viewshed mapping to provide a preliminary evaluation of the visibility associated with the proposed Facility. To conduct this assessment, a predictive computer model was developed specifically for this project using ESRI's ArcMap Geographic Information System ("GIS")¹ software and available GIS data. The predictive model provides an initial estimate of potential visibility throughout a pre-defined Study Area, in this case a two-mile radius surrounding the proposed Facility location. The predictive model incorporates Project and Study Area-specific data, including the Facility location, its ground elevation and the proposed Facility height, as well as the surrounding topography, existing vegetation, and structures (the primary features that can block direct lines of sight). The Study Area covers the Town of Litchfield and the neighboring municipalities of Thomaston (immediately to the south) and small portions of Harwinton and Plymouth (to the east).

¹ ArcMap is a Geographic Information System desktop application developed by the Environmental Systems Research Institute for creating maps, performing spatial analysis, and managing geographic data.

A digital surface model ("DSM"), capturing both the natural and built features on the Earth's surface, was generated for the extent of the Study Area utilizing State of Connecticut 2016 LiDAR² LAS³ data points. LiDAR is a remote-sensing technology that develops elevation data by measuring the time it takes for laser light to return from the surface to the instrument's sensors. The varying reflectivity of objects also means that the "returns" can be classified based on the characteristics of the reflected light, normally into categories such as "bare earth," "vegetation," "road," or "building". Derived from the 2016 LiDAR data, the LAS datasets contain the corresponding elevation point data and return classification values. The Study Area DSM incorporates the first return LAS dataset values that are associated with the highest feature in the landscape, typically a treetop, top of a building, and/or the highest point of other tall structures.

Once the DSM was generated, ESRI's Viewshed Tool was utilized to identify locations within the Study Area where the proposed Facility may be visible. ESRI's Viewshed Tool predicts visibility by identifying those cells⁴ within the DSM that can be seen from an observer location. Cells where visibility was indicated were extracted and converted from a raster dataset to a polygon feature which was then overlaid onto an aerial photograph and topographic base map. Since the DSM includes the highest relative feature in the landscape, isolated "visible" cells are often indicated within heavily forested areas (e.g., from the top of the highest tree) or on building rooftops during the initial processing. It is recognized that these areas do not represent typical viewer locations and overstate visibility. As such, the resulting polygon feature is further refined by extracting those areas. The viewshed results are also cross-checked against the most current aerial photographs to assess whether significant changes (a new housing development, for example) have occurred since the time the LiDAR-based LAS datasets were captured.

The results of the preliminary analysis are intended to provide a representation of those areas where portions of the Facility may potentially be visible to the human eye without the aid of magnification, based on a viewer eye-height of five (5) feet above the ground and the combination of intervening topography, trees and other vegetation, and structures. However, the Facility may not necessarily be visible from all locations within those areas identified by the predictive model, which has limitations. For instance, it is important to note that the computer model cannot account for mass density, tree diameters and branching variability of trees, or the degradation of views that occurs with distance. As a result, some areas depicted on the viewshed maps as theoretically offering potential visibility of the Facility may be over-predicted because the quality of those views is not sufficient for the human eye to recognize the Facility or discriminate it from other surrounding or intervening objects.

Preliminary viewshed mapping results indicate that predicted year-round visibility associated with the proposed Facility could include up to approximately 21 acres. A large portion of predicted year-round visibility would be along the utility ROW, primarily south of the Site, and over open agricultural fields at distances between ± 1.0 mile and ± 1.6 miles to the west. Predicted seasonal visibility, when leaves are off the deciduous trees, could include up to an additional 44 acres. With the exception of portions of farmland to the west along Camp Hill Road and southwest along Kennedy Drive, the majority of predicted seasonal visibility would be limited to areas within 0.4 mile or less of the Site.

Collectively, year-round and seasonal visibility is predicted to occur over a very small portion of the 8,042-acre Study Area (less than one percent). Note that the results of the computer model have not been field

² Light Detection and Ranging

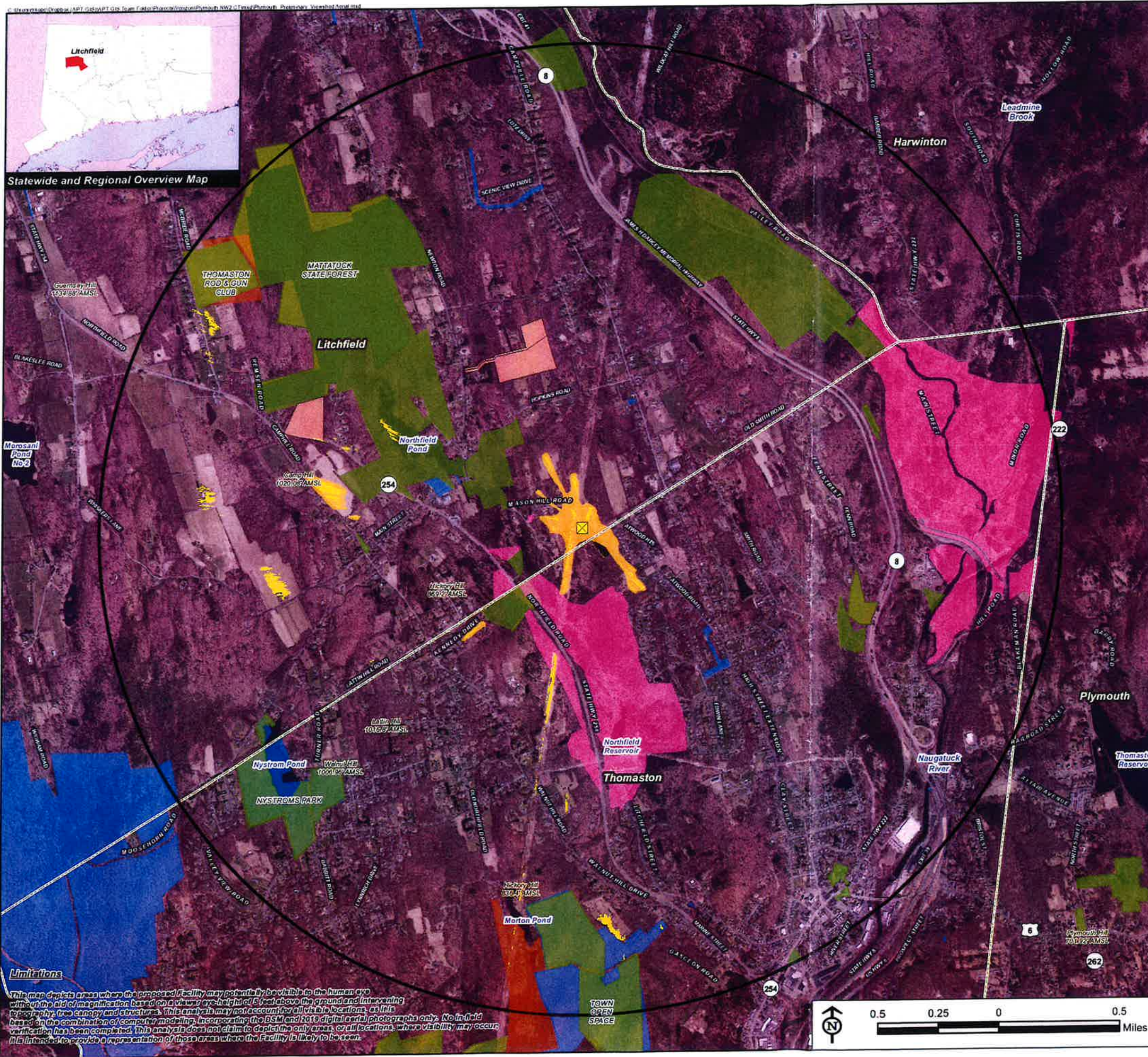
³ An LAS file is an industry-standard binary format for storing airborne LiDAR data.

⁴ Each DSM cell size is 1 square meter.

verified. Our experience is that the computer model's sensitivity typically results in the initial mapping being over-predictive of the Facility's viewshed. The viewshed maps provided as attachments offer a preliminary basis for understanding the extent of visibility that may occur throughout the Study Area, but they do not address the character of those potential views.

The initial results presented herein will be verified via a field-test to supplement and fine tune the results of the preliminary computer modeling. The in-field activities will consist of raising a brightly-colored, approximately four-foot diameter, helium-filled balloon (or brightly-colored flag tethered to a crane) to the proposed monopole height at the Site. Once the balloon/flag is raised into position, APT will perform a Study Area reconnaissance by driving publicly accessible local and State roads and inventorying those locations where the balloon/flag can be seen above/through the trees. Visual observations from publicly accessible locations will be used to evaluate the results of the preliminary viewshed mapping and identify any discrepancies in the initial modeling. APT will also photo-document areas where the balloon/flag can be seen (as well as locations where it is not visible) and will prepare photographic simulations from several vantage points to depict scaled renderings of the proposed Facility. This information will be included in Verizon's application to the Connecticut Siting Council for a Certificate of Environmental Compatibility and Public Need, a copy of which will be provided to the Town of Litchfield and the Town of Thomaston.

ATTACHMENTS



Preliminary Viewshed Analysis Map

Mason Hill Road
Northfield, Connecticut

Proposed facility height is 110 feet AGL.
Forest canopy height is derived from LiDAR data.
Study area encompasses a two-mile radius and includes 8,042 acres.
Information provided on this map has not been field verified.
Base Map Source: 2019 Aerial Photograph (CTECO)
Map Date: October 2022

Legend

- Proposed Site
- Study Area (2-Mile Radius)
- Predicted Year-Round Visibility (71 Acres)
- Areas of Potential Seasonal Visibility (44 Acres)
- Municipal Boundary
- Trail
- Scenic Highway
- DEEP Boat Launches
- Municipal and Private Open Space Property
- State Forest/Park
- Protected Open Space Property**
- Federal
- Land Trust
- Municipal
- Private
- State

Data Sources:

Physical Geography / Background Data

A digital surface model (DSM) was created from the State of Connecticut 2016 LIDAR LAS data points. The DSM captures the natural and built features on the Earth's surface.

Municipal Open Space, State Recreation Areas, Trails, County Recreation Areas, and Town Boundary data obtained from CT DEEP. Scenic Roads: CTDOT State Scenic Highways (2015); Municipal Scenic Roads (compiled by APT)

Dedicated Open Space & Recreation Areas

Connecticut Department of Energy and Environmental Protection (DEEP); DEEP Property (May 2007); Federal Open Space (1997); Municipal and Private Open Space (1997); DEEP Boat Launches (1994)

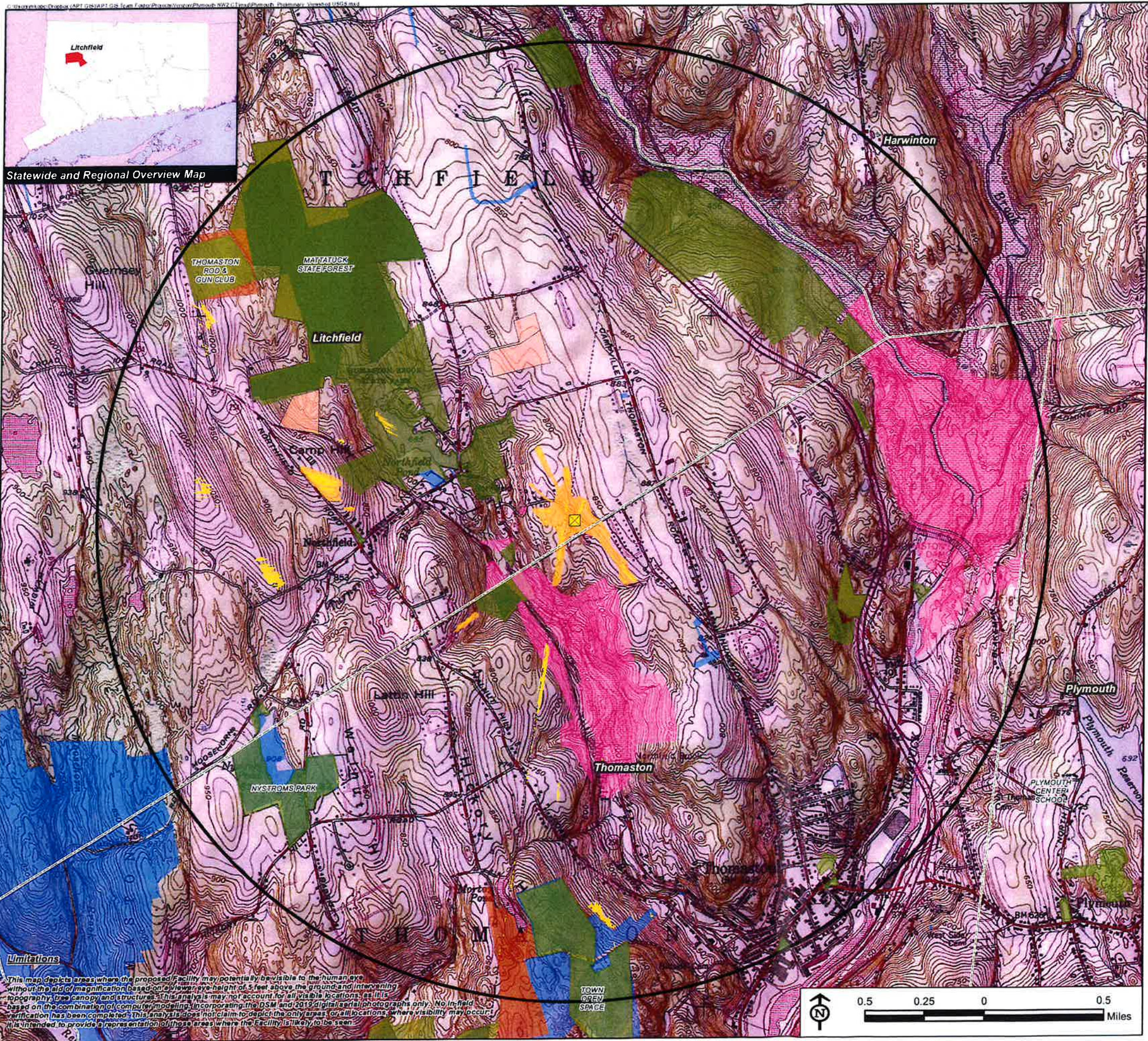
Connecticut Forest & Parks Association, Connecticut Walk Books East & West

Other

CTDOT Scenic Strips (based on Department of Transportation data)

Notes

**Not all the sources listed above appear on the Viewshed Maps. Only those features within the scale of the graphic are shown.



Preliminary Viewshed Analysis Map

Mason Hill Road
Northfield, Connecticut

Proposed facility height is 110 feet AGL.
 Forest canopy height is derived from LiDAR data.
 Study area encompasses a two-mile radius and includes 8,042 acres.
 Information provided on this map has not been field verified.
 Base Map Source: USGS 7.5 Minute Topographic Quadrangle Maps, Litchfield, CT (1984) and Thomaston, CT (1976)
 Map Date: October 2022

Legend

- Proposed Site
- Study Area (2-Mile Radius)
- Predicted Year-Round Visibility (21 Acres)
- Areas of Potential Seasonal Visibility (44 Acres)
- Municipal Boundary
- Trail
- Scenic Highway
- DEEP Boat Launches
- Municipal and Private Open Space Property
- State Forest/Park
- Protected Open Space Property**
- Federal
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- Municipal
- Private
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Data Sources:

Physical Geography / Background Data
 A digital surface model (DSM) was created from the State of Connecticut 2016 LiDAR LAS data points. The DSM captures the natural and built features on the Earth's surface.

Municipal Open Space, State Recreation Areas, Trails, County Recreation Areas, and Town Boundary data obtained from CT DEEP.
 Scenic Roads: CT DOT State Scenic Highways (2015); Municipal Scenic Roads (compiled by APT)

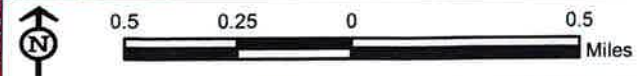
Dedicated Open Space & Recreation Areas
 Connecticut Department of Energy and Environmental Protection (DEEP): DEEP Property (May 2007); Federal Open Space (1997); Municipal and Private Open Space (1997); DEEP Boat Launches (1994)

Connecticut Forest & Parks Association, Connecticut Walk Books East & West

Other
 CT DOT Scenic Strips (based on Department of Transportation data)

Notes
 *Not all the sources listed above appear on the Viewshed Maps. Only those features within the scale of the graphic are shown.

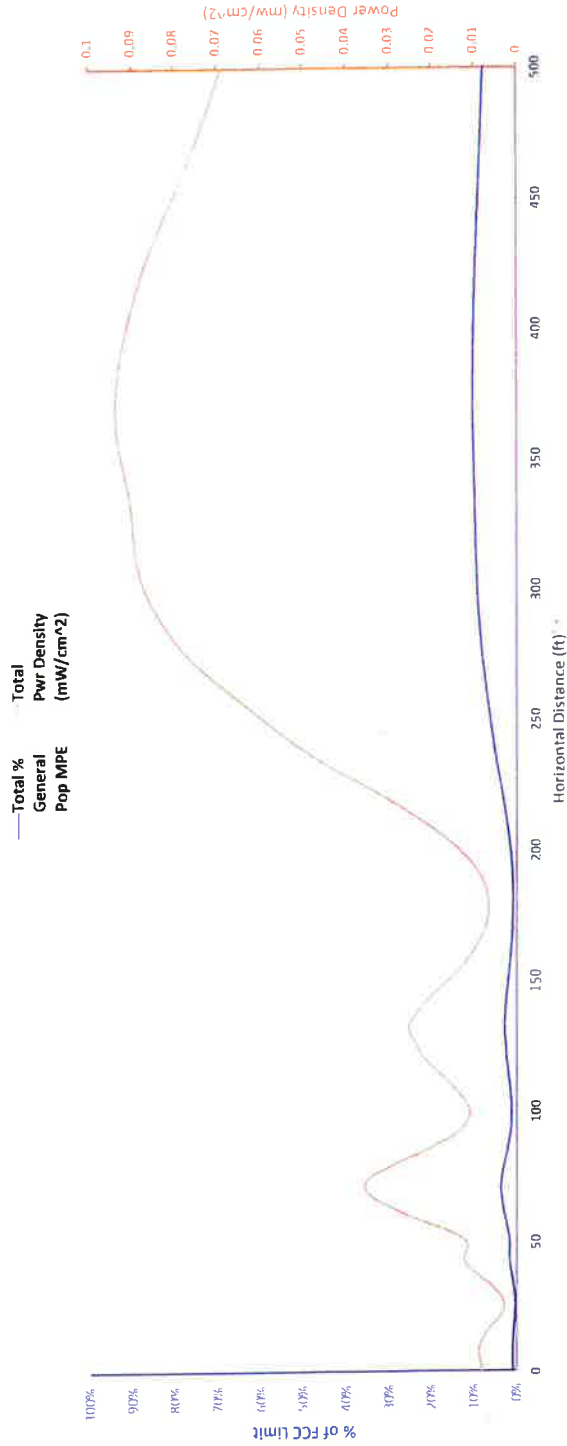
Limitations
 This map depicts areas where the proposed Facility may potentially be visible to the human eye without the aid of magnification based on a proposed height of 5 feet above the ground and intervening topography, tree canopy and structures. This analysis may not account for all visible locations, as it is based on the combination of computer modeling, incorporating the DSM and 2013 digital aerial photographs only. No in-field verification has been completed. This analysis does not claim to depict the only areas where visibility may occur. It is intended to provide a representation of those areas where the Facility is likely to be seen.



ATTACHMENT 5

PLYMOUTH NWZ CT 10/19/2022							
Location	Date	C-Band	AWS	PCS	850-LTE	850-CDMA	700
Operating Frequency (MHz)		3.700	2,145	1,970	880	869	746
General Population MPE (mW/cm ²)		1	1	1	0.586666667	0.579333333	0.497333333
ERP Per Transmitter (Watts)		22,131	3,981	3,236	891	0	1,820
Number of Transmitters		2	4	4	4	2	4
Antenna Centerline (feet)		105	105	105	105	105	105
Total ERP (Watts)		44,262	15,924	12,944	3,565	0	7,279
Total ERP (dBm)		76	72	71	66	#N/A	69

RF Exposure 6ft Above Ground Level Far Field Formula (per FCC OET65)



Angle Below Horizon	E-Band	AWS	PCS	850-LTE	850-CDMA	700 MHz	Distance	Total Pwr Density (mW/cm ²)	Type of Exposure
90	0.008027929	3.10194E-06	8.10278E-07	6.36258E-05	0	7.86194E-05	0	0.008174286	General
89	0.00802706	5.60514E-06	1.40795E-07	6.24577E-05	0	8.06466E-05	1.029648831	0.00817591	General
88	0.008211367	1.33182E-05	6.75221E-07	6.07358E-05	0	7.68148E-05	2.0603254	0.008362911	General
87	0.008321087	2.55393E-05	2.95444E-06	5.78375E-05	0	6.874E-05	3.092058978	0.008475799	General
86	0.00850084	3.81838E-05	5.15087E-06	5.34416E-05	0	5.90038E-05	4.125681905	0.00866422	General
85	0.008500108	4.57566E-05	7.91507E-06	4.79131E-05	0	5.00558E-05	5.161831148	0.008651749	General
84	0.008687661	4.4252E-05	1.23008E-05	4.21631E-05	0	4.2947E-05	6.201149881	0.008829324	General
83	0.008675295	3.44599E-05	1.96931E-05	3.71804E-05	0	3.79589E-05	7.244289093	0.008804588	General
82	0.008660989	2.24747E-05	2.87474E-05	3.40092E-05	0	3.52856E-05	8.291909247	0.008781449	General
81	0.008644726	1.50238E-05	3.58742E-05	3.34796E-05	0	3.50575E-05	9.344681979	0.008764161	General
80	0.008430126	1.52357E-05	3.9899E-05	3.58809E-05	0	3.68014E-05	10.40329186	0.008557934	General

11	0.082142712	0.000521914	6.69267E-05	0.001220671	0	0.003931867	0.00%	8.21%	0.00%	0.05%	0.01%	0.21%	0.00%	0.79%	303.5286869	0.09788409	9.27%
10	0.083245809	4.11521E-06	0.000340716	0.001924828	0	0.005109661	0.00%	8.32%	0.00%	0.00%	0.03%	0.33%	0.00%	1.03%	334.6056274	0.09062513	9.71%
9	0.083937367	0.000413033	0.001056783	0.002552612	0	0.005997705	0.00%	8.39%	0.00%	0.04%	0.11%	0.44%	0.00%	1.21%	372.5113394	0.0939575	10.18%
8	0.076255373	0.001143669	0.00126853	0.002960056	0	0.006416529	0.00%	7.63%	0.00%	0.11%	0.13%	0.50%	0.00%	1.29%	419.8066136	0.088044158	9.66%
7	0.061716761	0.001181498	0.000728507	0.003057966	0	0.006286847	0.00%	6.17%	0.00%	0.12%	0.07%	0.52%	0.00%	1.26%	480.5164393	0.072971577	8.15%
6	0.048990076	0.000507152	0.000108178	0.002819276	0	0.005638166	0.00%	4.90%	0.00%	0.05%	0.01%	0.48%	0.00%	1.13%	561.3475028	0.058062847	6.57%
5	0.033869854	8.01388E-05	0.000158432	0.002316556	0	0.00456923	0.00%	3.39%	0.00%	0.01%	0.02%	0.39%	0.00%	0.92%	674.3730859	0.040994212	4.72%
4	0.020821834	0.00048927	0.000817616	0.001661684	0	0.003270007	0.00%	2.08%	0.00%	0.05%	0.08%	0.28%	0.00%	0.66%	843.7393091	0.027060411	3.15%
3	0.010904753	0.001144578	0.001308116	0.000994583	0	0.001984475	0.00%	1.09%	0.00%	0.11%	0.13%	0.17%	0.00%	0.40%	1125.787065	0.016936515	1.90%
2	0.004129038	0.001119125	0.001063847	0.000447588	0	0.000913858	0.00%	0.41%	0.00%	0.11%	0.11%	0.08%	0.00%	0.18%	1689.538944	0.007673456	0.89%
1	0.000840699	0.000428223	0.00036785	0.000108061	0	0.000228386	0.00%	0.08%	0.00%	0.04%	0.04%	0.02%	0.00%	0.05%	3380.107736	0.001979322	0.23%

ATTACHMENT 6

**Cellco Partnership d/b/a Verizon Wireless
Mason Hill Road
Litchfield, Connecticut**

Plymouth North West 2 Facility

Site Search Summary

Section 16-50j-74(j) of the Regulations of Connecticut State Agencies requires the submission of a statement that describes “the narrowing process by which other possible sites were considered and eliminated.” In accordance with this requirement, descriptions of the general site search process, the identification of the applicable search area and the alternative locations considered for development of the proposed telecommunications facility in southeast Litchfield are provided below.

Site Search Process

To initiate its site selection process in an area where wireless service problems have been identified, Cellco first establishes a “site search ring” or “site search area”. In any search ring or search area, Cellco seeks to avoid the unnecessary proliferation of towers and to reduce the potential adverse environmental effects of the cell site, while at the same time maximizing the quality of service provided from a facility. These objectives are achieved by initially locating existing towers and other sufficiently tall structures within and near the site search area. If any are found, they are evaluated to determine whether they can support Cellco’s telecommunications antennas and related equipment at a location and satisfies its technical requirements.

The list of available locations may be further reduced if, after preliminary negotiations, the property owners withdraw a site from further consideration. From among the remaining locations, the proposed sites are selected by eliminating those that have greater potential for adverse environmental effects and fewer benefits to the public (i.e., those requiring taller towers; those with substantial adverse environmental impacts, or in densely populated residential areas; and those with limited ability to share space with other public or private telecommunications service providers). It should be noted that in any given site search, the weight afforded to factors considered in the selection process will vary depending upon the availability and nature of sites within the search area.

Need for the Plymouth North West (“NW”) 2 Facility

Within approximately four (4) miles of the proposed Plymouth NW 2 Facility, Cellco maintains five (5) macro-cell facilities. These facilities are identified as Cellco’s Harwinton West, Plymouth NW, Plymouth West Relo, Thomaston Center and Watertown NE.

Cellco's Harwinton West facility consists of antennas on a tower at 123 Campville Hill Road in Harwinton. Cellco's Plymouth NW facility consists of antennas on a tower at 295 (a/k/a 297) North Street in Plymouth. Cellco's Plymouth West Relo facility consists of antennas on a tower at 33 (a/k/a 55) Keegan Road in Plymouth. Cellco's Thomaston Center facility consists of antennas on a tower at 580 Chapel Street in Thomaston. Cellco's Watertown NE facility consists of antennas on a tower at 655 Bassett Road in Watertown.

These existing facilities currently provide little or no reliable wireless service in the area around the proposed Plymouth NW 2 Facility location. The existing gaps in reliable wireless service and signal level deficiencies in this area persist along significant portions of Route 254 (the primary service objective) and more generally in the residential areas of southeast Litchfield and northern Thomaston. Unfortunately, there are no other existing towers or other sufficiently tall structures available in this area that would help Cellco satisfy its need for service and reliability improvements. Construction of a new tower, therefore, is required to resolve Cellco's wireless service problems.

Identification of the Plymouth North West Search Area

The purpose of the proposed Plymouth NW 2 Facility is to fill existing wireless service gaps and provide more reliable wireless service overall in Cellco's 700 MHz, 850 MHz, 1900 MHz, 2100 MHz, and 3700 MHz frequency ranges in southeast Litchfield. The Plymouth NW 2 site search was initiated in October of 2021. (See attached Search Area Map).

Sites Investigated

Cellco investigated a total of eleven (11) sites in southeast Litchfield and northern Thomaston. These alternative sites were those identified by Cellco's Real Estate representatives. A listing of the sites investigated is provided below.

1. **Mason Hill Road, Litchfield, CT (Parcel ID 258-10C-001)**: Cellco entered into a lease agreement with Joyce Williams, for the development of a new tower site on this 8.17-acre parcel.
2. **58 Old Northfield Road, Litchfield, CT (Parcel ID 256-033-006)**: This is a 5.5-acre residential parcel owned by Robert and Darlene Peterson III. The owners did not respond to Cellco's written request lease a portion of this parcel.
3. **12 Lattin Hill Road, Litchfield, CT (Parcel ID 256-033-001)**: This is a 21-acre residential parcel owned by Timothy Seebach. Cellco contacted the owner of this parcel by mail (Certified Letter), spoke to the owner on the telephone and exchanged emails regarding the potential lease of the Seebach property for a new tower site. After these initial connections, the owner did not respond to follow-up efforts to discuss a lease proposal. Upon further evaluation, Cellco's RF Engineers determined that this parcel could not satisfy Cellco's service objectives.
4. **Old Northfield Road, Litchfield, CT (Parcel ID 256-017-025)**: This is a 6.8-acre vacant residential parcel owned by the Estate of Richard Waterhouse c/o Janet Waterhouse. Cellco contacted the owner of this parcel by Certified Letter,

had a telephone conversation and exchanged emails regarding the potential leasing of this parcel for a new tower site. Upon further evaluation, Cellco's RF Engineers determined that this parcel could not satisfy Cellco's service objectives.

5. **728 Northfield Road, Litchfield, CT (Parcel ID 256-017-002)**: This is a 11.26-acre residential parcel owned by Stephen Simonin. Cellco contacted the owner by mail (Certified Letter), had a telephone conversation and exchanged emails regarding the potential lease of his property for a new tower site. Upon further evaluation, Cellco's RF Engineers determined that this parcel could not satisfy Cellco's service objectives.
6. **74 Knife Shop Road, Litchfield, CT (Parcel ID 256-018-004)**: This is a 10.49-acre residential parcel owned by William Fitzgerald. Cellco attempted to contact the owner by mail (Certified Letter). The owner did not respond to Cello's inquiry.
7. **170 Mason Hill Road, Litchfield, CT (Parcel ID 258-010-014)**: This is a 25.46-acre vacant parcel owned by Joseph Masi and Margaret Raymond. Cellco mailed the owner a Certified Letter. The owner and Cellco had several telephone conversations and exchanged emails regarding the potential lease of his property for a new tower site but could not agree on lease terms.
8. **670 Walnut Hill, Thomaston, CT (Parcel ID 14-04-01)**: This is a 28.26-acre residential parcel owned by Kathleen Furman. Cellco attempted to contact the owner by mail (Certified Letter). The owner did not respond to Cello's letter.
9. **528 Walnut Hill, Thomaston, CT (Parcel ID 21-02-03)**: This is a 2.68-acre residential parcel owned by Ruth Lundberg c/o Norma Kryanowski. Cellco attempted to contact the owner by mail (Certified Letter). The owner did not respond to Cello's Letter.
10. **230 Litchfield Street, Thomaston, CT (Parcel ID 30-04-01)**: This is a 43.68-acre residential parcel owned by Lucas Hellerich, Natalie Kaoud and Gretchen Hellerich. Cellco attempted to contact the owner by mail (Certified Letter). The owners and Cellco had several telephone conversations and exchanged emails regarding the potential lease of this parcel as a new tower but could not come to lease terms with the owner. Upon further evaluation, Cellco's RF Engineers determined that this parcel could not satisfy Cellco's service objectives.
11. **158 Main Street, Thomaston, CT (Parcel ID 40-19-07)**: This is a 1.56-acre parcel owned by the Town of Thomaston (existing lattice tower operated by the Police Department). Town officials and Cellco had several telephone conversations and an exchange of emails regarding the potential shared use of this existing tower. Upon further evaluation, Cellco's RF Engineers determined that the use of this tower could not satisfy Cellco's service objectives.

