

TARPON TOWERS II, LLC

**TECHNICAL REPORT
PROPOSED WIRELESS TELECOMMUNICATION FACILITY**

**796 WOODIN STREET,
HAMDEN, CT 06514**



**TARPON TOWERS II, LLC
1001 3rd Avenue West, Suite 420
Bradenton, Florida 34205**

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Introduction

Tarpon Towers II, LLC (“Tarpon”) submits this Technical Report to the Town of Hamden (“Town” or “Hamden”) pursuant to General Statutes §16-50/. Tarpon proposes to install a wireless telecommunications facility (the “Facility”) on an approximately 6.75+/- acre parcel located at 796 Woodin Street, Hamden and owned by Gabrielle Scirocco (the “Property” or the “Site”). The Facility would consist of a 120-foot monopole structure within a 40 foot by 70 foot chain link fenced equipment compound. The tower would also accommodate the antenna arrays of Cellco Partnership, dba Verizon Wireless (“Verizon”) and three other wireless carriers. If approved, the Facility would provide wireless communications and the opportunity for improved 911 service in this area of Hamden.

The purpose of this Technical Report is to provide the Town with information concerning the Facility. Section 1 addresses the need for the proposed Facility. Section 2 details the site selection process, including an analysis of other sites considered and rejected by Tarpon. Section 3 describes the Site, the design of the Facility and the environmental effects, if any, associated with the proposed Facility.

Correspondence and/or communications regarding this Technical Report should be addressed to the attorney for Tarpon:

Cohen and Wolf, P.C.
P.O. Box 1821
1115 Broad Street
Bridgeport, CT 06604
(203) 368-0211

Attention: David A. Ball, Esq.
Vincent M. Marino, Esq.

SECTION 1

Site Justification

The proposed Facility is necessary to allow Verizon to continue to provide high quality wireless service in the southwest portion of the Town of Hamden. Verizon is licensed by the Federal Communications Commission (“FCC”) to provide wireless communication service throughout the State of Connecticut, including New Haven County.

In 1987 (CT Siting Council Docket No. 56B), Cellco established a wireless telecommunications facility at 1055 Wintergreen Avenue in Hamden, Connecticut. Cellco’s existing “Hamden” facility consists of antennas at the 170-foot level on a 250-foot lattice tower on West Rock Ridge. Due to its overall ground elevation (approximately 445 feet above mean sea level), this site provides coverage to a significant area, a significant benefit to Cellco’s wireless system and customers in the early years of wireless service in Connecticut.

The wireless industry and the technology through which wireless service is provided has, however, evolved dramatically since 1987. The early facility siting strategy of tall towers or cell sites at higher ground elevations, like the Verizon’s Hamden cell site, providing service to a large geographic area, has given way to the development of shorter, more numerous cell sites, closer to one another, providing higher quality and more reliable wireless service. As Verizon’s network has evolved over the years, particularly in southern portions of Hamden and the surrounding towns, service provided by Verizon’s Hamden cell site has grown to be more problematic, causing interference with several of the surrounding cell sites, most of which have been constructed more recently.

In an effort to resolve these problems, Cellco has decided to take its existing Hamden cell site off the air and pursue a new replacement cell site that would satisfy its existing coverage objectives primarily to the north of West Rock Ridge and to provide significant capacity relief to Verizon’s wireless network in Hamden. The new Site (referred to by Verizon as “Hamden Relo cell site”) at 796 Woodin Street satisfies both of these important network service objectives as provided in the attached Propagation Plots.

Site Name: **HAMDEN RELO, CT**
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	746	1	2644	2644	120	0.0660	0.4973	13.28%
VZW Cellular	876	0	0	0	120	0.0000	0.5840	0.00%
VZW 850 LTE	869	1	2634	2634	120	0.0658	0.5793	11.35%
VZW PCS	1970	1	4284	4284	120	0.1070	1.0000	10.70%
VZW AWS	2145	1	5322	5322	120	0.1329	1.0000	13.29%
Total Percentage of Maximum Permissible Exposure								48.62%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

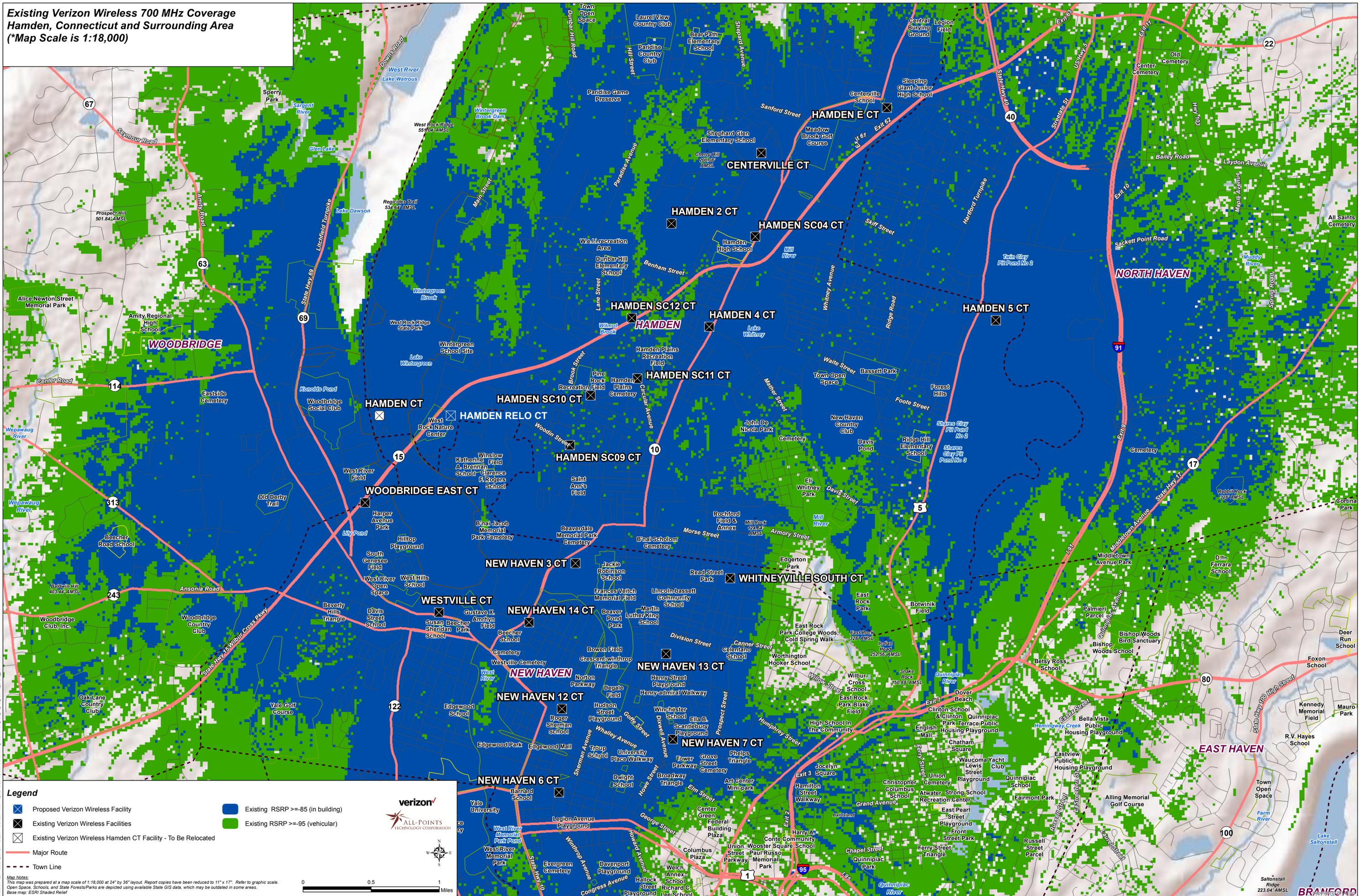
MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

**Existing Verizon Wireless 700 MHz Coverage
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



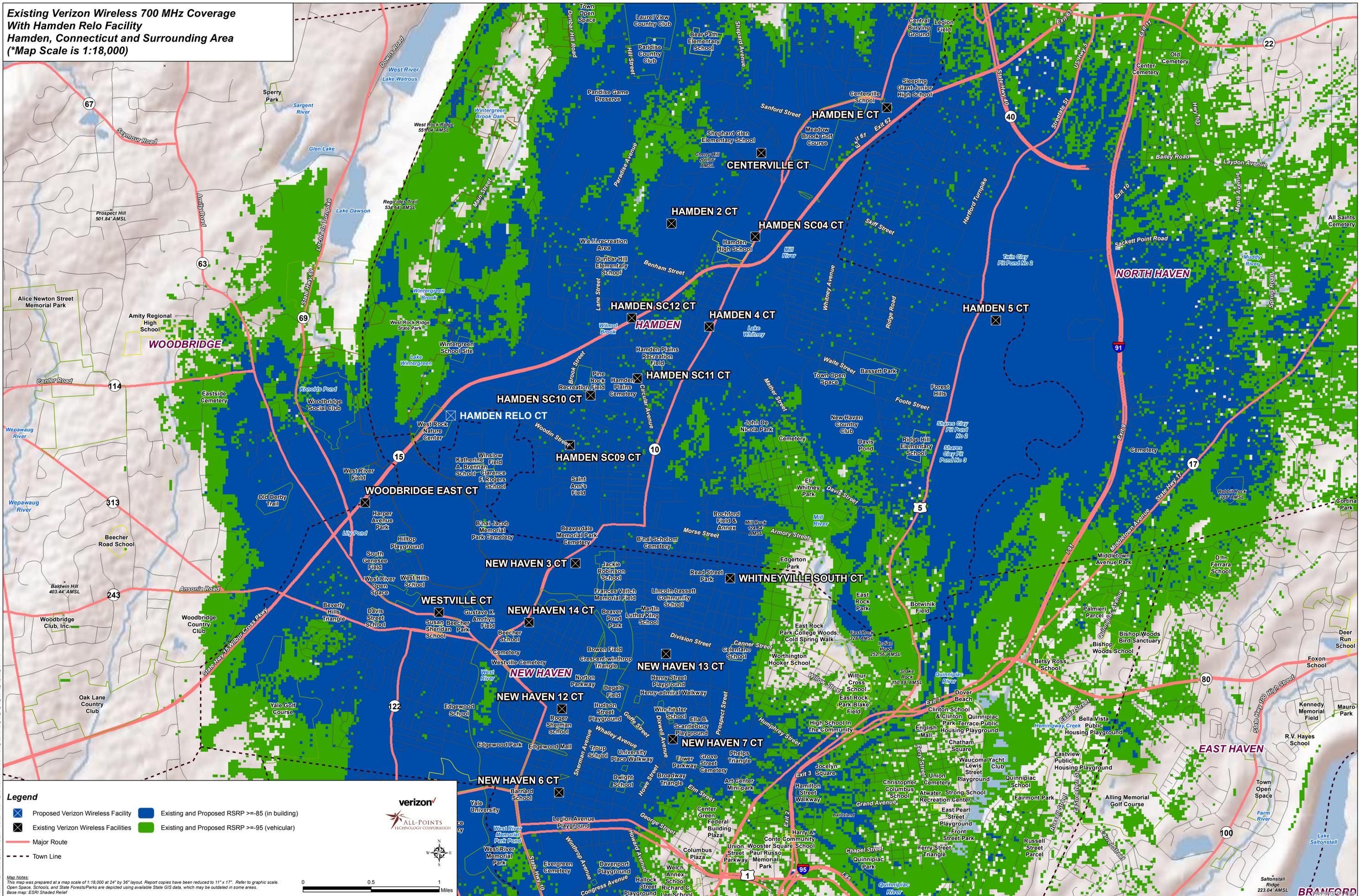
Legend

- Proposed Verizon Wireless Facility
- Existing RSRP >= -85 (in building)
- Existing RSRP >= -95 (vehicular)
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless Hamden CT Facility - To Be Relocated
- Major Route
- Town Line

Map Notes:
This map was prepared at a map scale of 1:18,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Spaces, Schools and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ESRI Shaded Relief

ALL-POINTS TECHNOLOGY CORPORATION

**Existing Verizon Wireless 700 MHz Coverage
With Hamden Relo Facility
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**

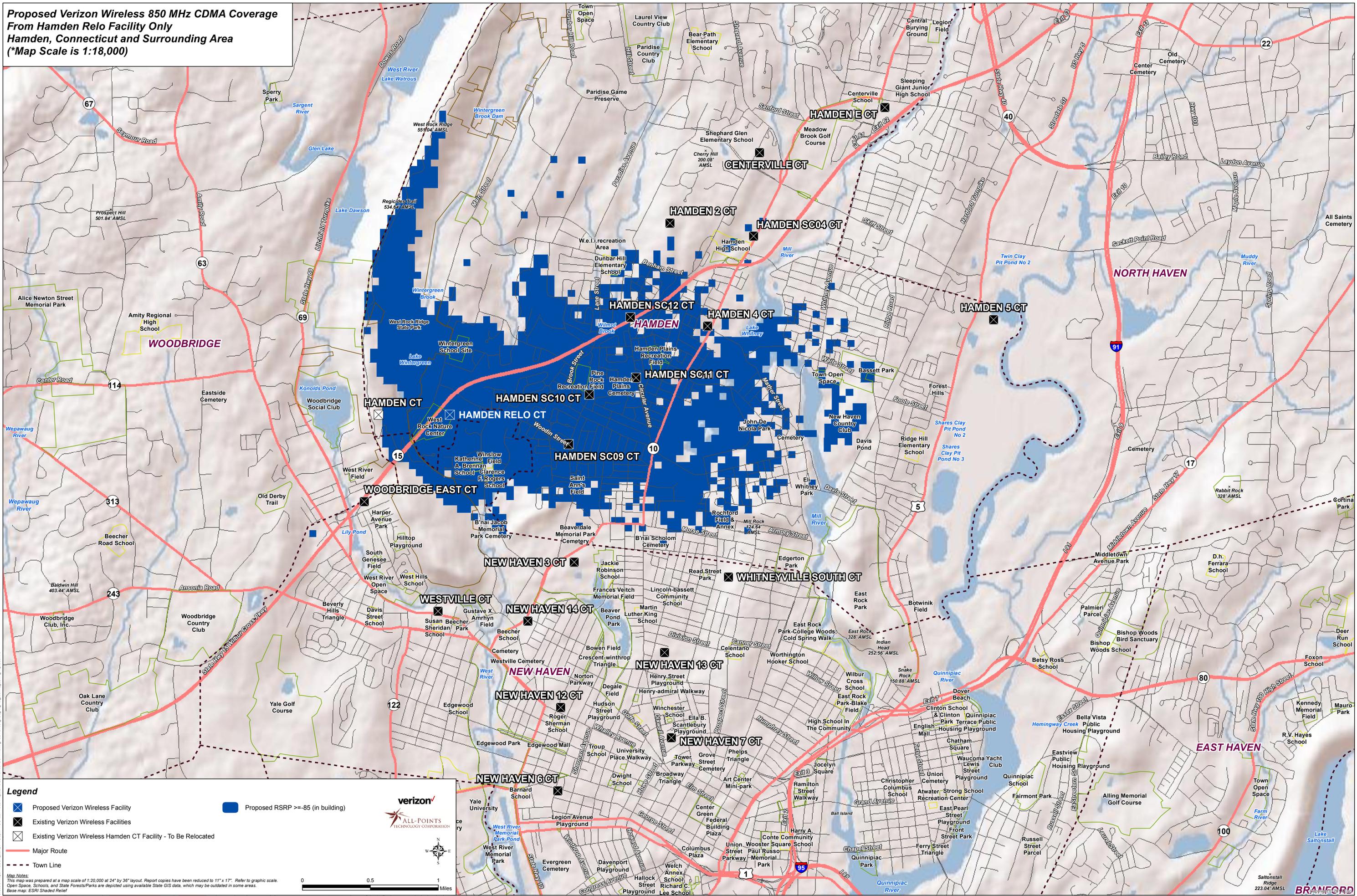


- Legend**
- Proposed Verizon Wireless Facility
 - Existing and Proposed RSRP >= -85 (in building)
 - Existing Verizon Wireless Facilities
 - Existing and Proposed RSRP >= -95 (vehicular)
 - Major Route
 - - - Town Line

Map Notes:
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Base map: ESRI Shaded Relief



**Proposed Verizon Wireless 850 MHz CDMA Coverage
From Hamden Relo Facility Only
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



Legend

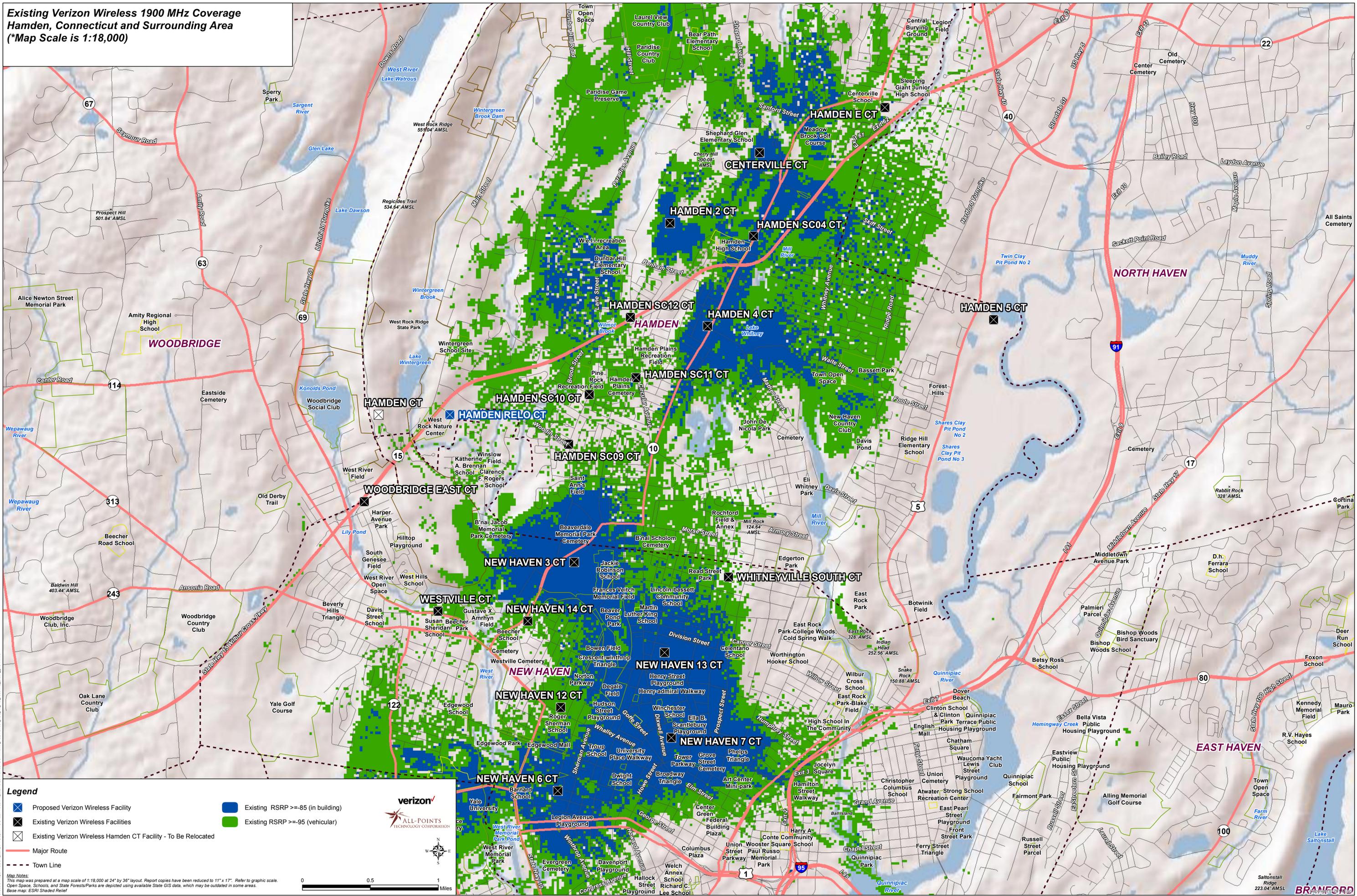
- Proposed Verizon Wireless Facility
- Proposed RSRP >= -85 (in building)
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless Hamden CT Facility - To Be Relocated
- Major Route
- Town Line

Map Notes:
This map was prepared at a map scale of 1:20,000 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: ESRI Shaded Relief

Scale: 0 0.5 1 Miles

Verizon
ALL-POINTS
TECHNOLOGY CORPORATION

**Existing Verizon Wireless 1900 MHz Coverage
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



Legend

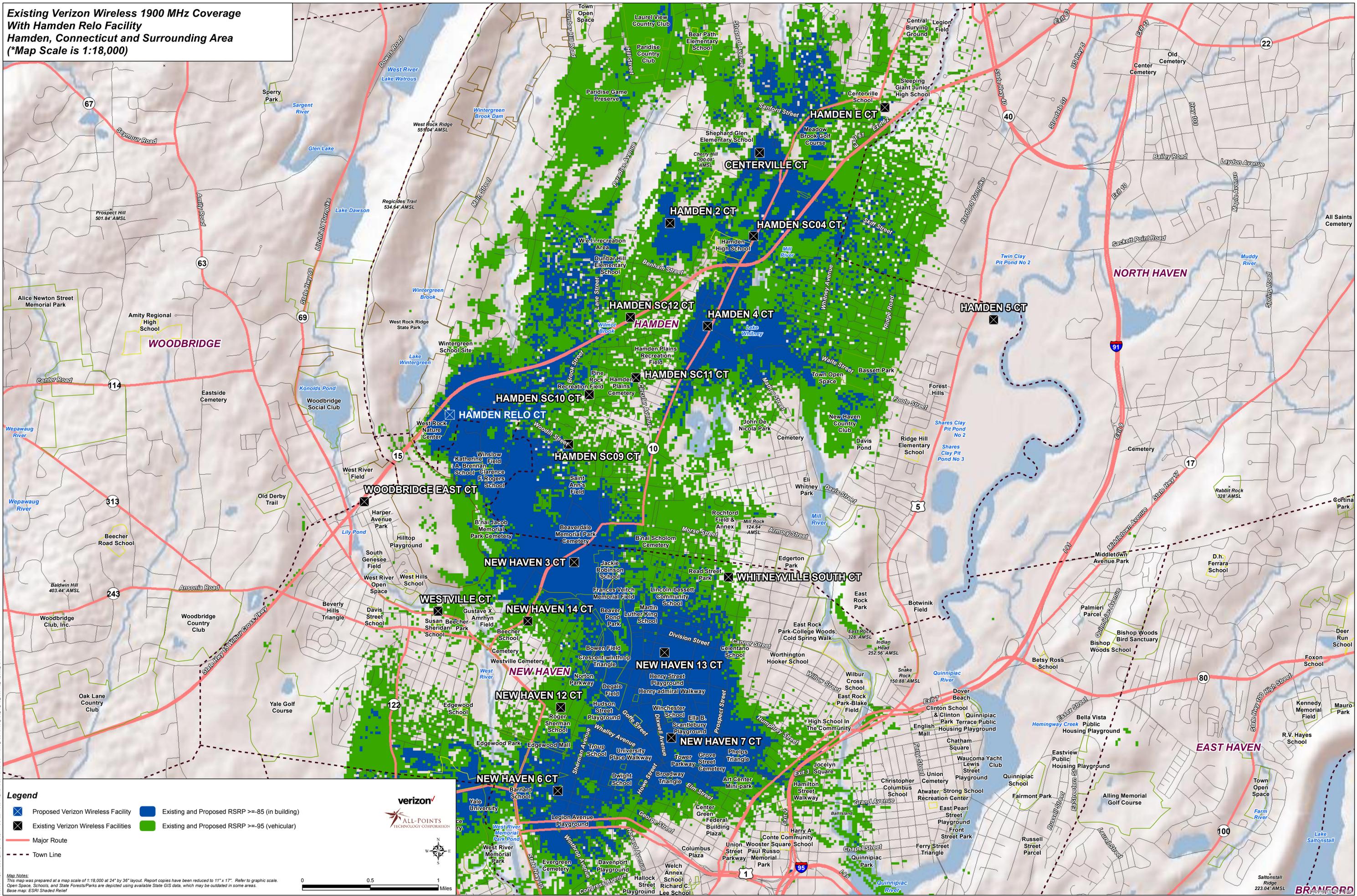
- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- ▧ Existing Verizon Wireless Hamden CT Facility - To Be Relocated
- Existing RSRP >= -85 (in building)
- Existing RSRP >= -95 (vehicular)
- Major Route
- - - Town Line

Map Notes:
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Open Space, Schools and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ESRI Shaded Relief

Scale: 0 0.5 1 Miles

Verizon
ALL-POINTS
TECHNOLOGY CORPORATION

**Existing Verizon Wireless 1900 MHz Coverage
With Hamden Relo Facility
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



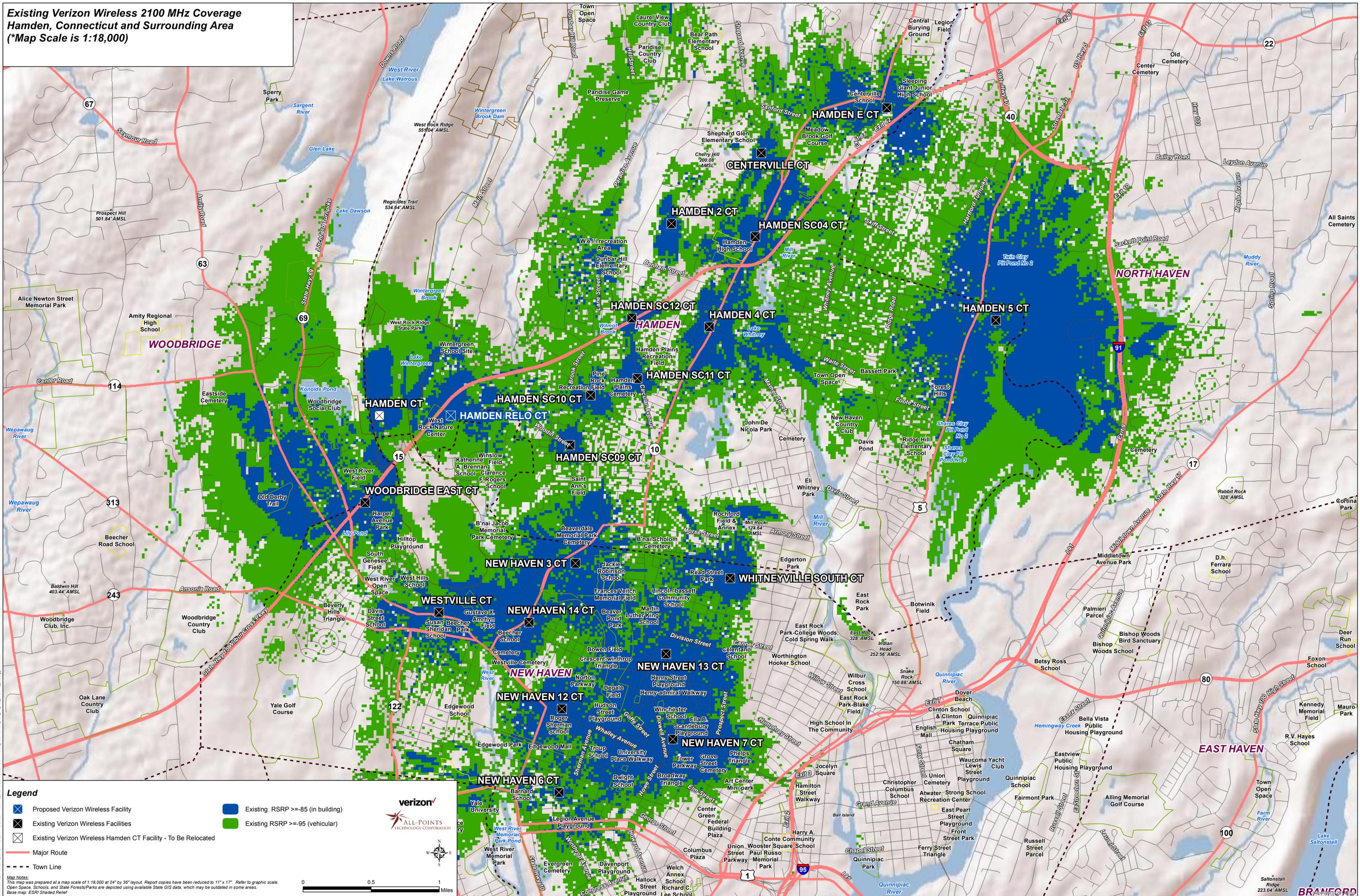
- Legend**
- Proposed Verizon Wireless Facility
 - Existing and Proposed RSRP >=85 (in building)
 - Existing Verizon Wireless Facilities
 - Existing and Proposed RSRP >=95 (vehicular)
 - Major Route
 - - - Town Line



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Base map: ESRI Shaded Relief



**Existing Verizon Wireless 2100 MHz Coverage
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



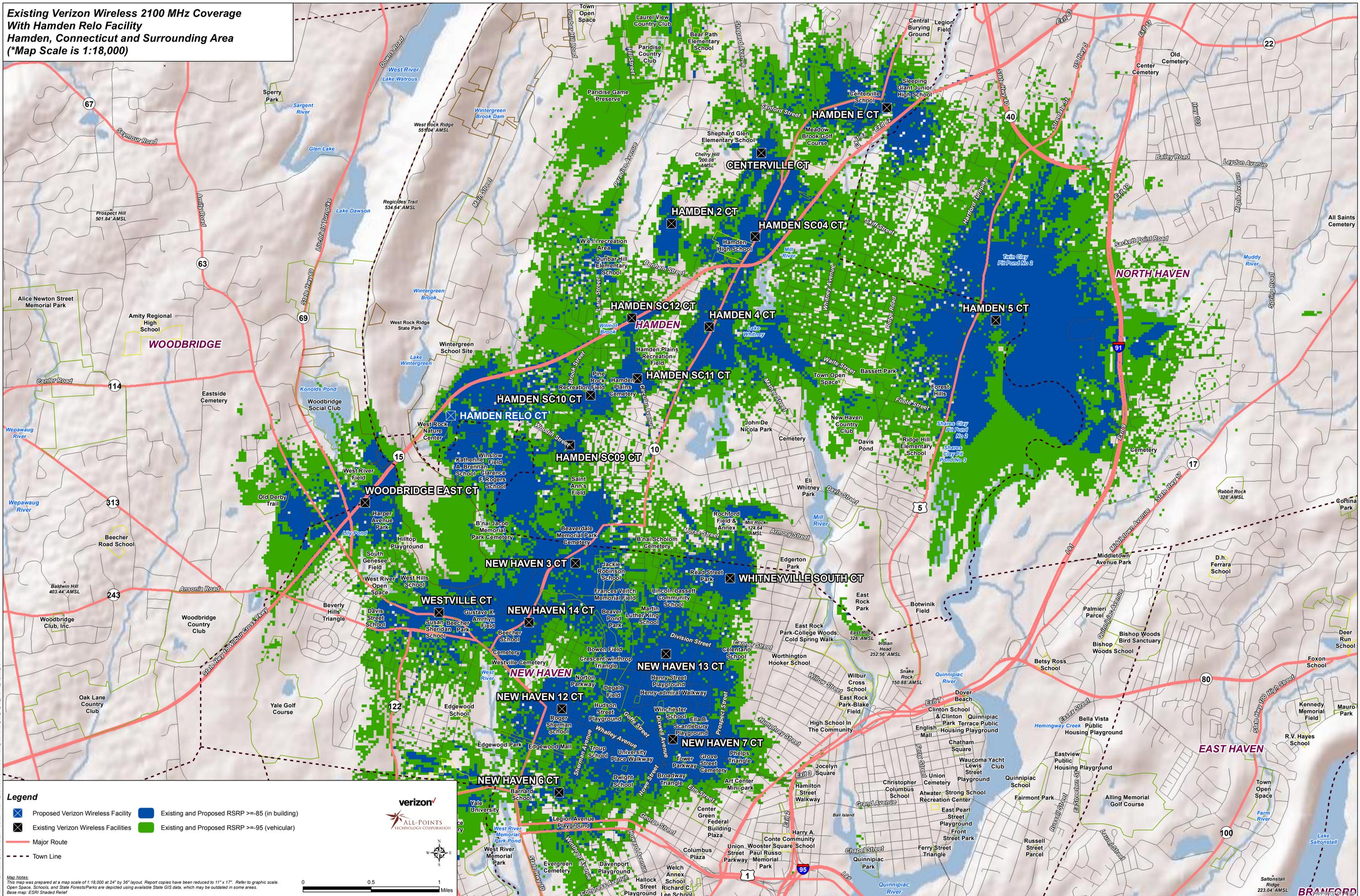
Legend

- Proposed Verizon Wireless Facility
- Existing RSRP >= -85 (in building)
- Existing RSRP >= -95 (vehicular)
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless Hamden CT Facility - To Be Relocated
- Major Route
- Town Line

Map Notes:
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Base map: ESRI Shaded Relief

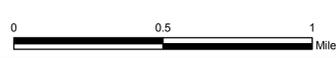


**Existing Verizon Wireless 2100 MHz Coverage
With Hamden Relo Facility
Hamden, Connecticut and Surrounding Area
(*Map Scale is 1:18,000)**



- 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

Map Notes:
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Open Space, Schools and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ESRI Shaded Relief



SECTION 2

Site Search Process and Selection

General Statutes § 16-50I requires Tarpon to provide the Town with a technical report considering, *inter alia*, “the site selection process.” When filing its application for a certificate of environmental compatibility and public need with the Connecticut Siting Council, Tarpon must include a statement that describes “the narrowing process by which other possible sites were considered and eliminated.” Regs., Conn. State Agencies § 16-50j-74(j). In accordance with these requirements, this Technical Report details the description of the general site search process, the identification of the target search area and the alternative locations considered for development of the proposed Facility.

As a tower infrastructure provider, Tarpon is in direct consultation with individual carriers and uses its overall knowledge and understanding of existing wireless carrier networks to identify geographical areas where wireless service is unreliable. Tarpon only pursues a site search for a new tower when it is clear that a new tower facility will be required, and all other options have been evaluated and/or exhausted. When conducting a site search, Tarpon’s radio frequency engineers, in consultation with the appropriate wireless carrier radio frequency engineers, identify search areas central to the necessary geographical coverage area. In this case, Verizon identified a need for wireless coverage in this area of Hamden and has agreed to support an application by Tarpon to construct a new facility in this location to provide the wireless service required.

Tarpon is sensitive to State and local desires to minimize the construction of new towers, and it does not pursue development of a new facility where an acceptable existing structure can be found. In general, Tarpon’s site acquisition personnel study the area in and near the search area to determine whether any suitable structure exists. If Tarpon cannot find a structure with appropriate height and structural capabilities, it turns to industrial and commercial areas or individual parcels that have appropriate environmental and land use characteristics. The list of potential locations is limited by the willingness of property owners to make their properties available for a telecommunications facility. Radio frequency engineers study potentially suitable and available locations to determine whether those locations will meet their particular technical requirements. The list of possible alternative sites may be further narrowed following Tarpon’s analysis of potential environmental effects and benefits. The weight given to relevant factors varies for each search, depending on the nature of the area and the availability of potential sites.

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 Hamden are provided below.

Site Search Process

A site search ring is selected in an area where wireless service problems have been identified. In any search ring or search area, Tarpon 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 particular 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 are capable of supporting a carrier's telecommunications antennas and related equipment at a location and elevation that 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; 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.

Sites Investigated

1. **Owner: South Central Regional Water**

Map Block and Lot 2420-001-00-0000

Size – 6 Acres

Site Location: 645 Wintergreen Avenue

Tarpon representatives spoke with the Water Authority representative that handles all wireless requests and he said that property was not large enough to be used as a site.

2. **Owner: Town of Hamden:** Wintergreen Elementary School

Map Lot and Block: 2322-019-00-0000

Site Location: 670 Wintergreen Avenue

Property Size: 15 acres

Tarpon representatives spoke a couple of time with Curt Leng, the Mayor of Hamden, and he stated that he did not want to use the town properties for wireless communications.

3. **Owner: Saint Mary's Unison Free Will Baptist Church**

Map Lot and Block: 2323-277-00-0000

Site Location: 230 Wintergreen Avenue

Property Size: 7.63 acres

This site was deemed unusable due to lack of interest from the owner.

4. **Owner: Scot Esdaile**

Map Lot and Block: 2322-005-00-0000

Site Location: 847 Woodin Street

Property Size: 2.31 acres

This site was deemed unusable due to lack of interest from the owner.

5. **Owner: Louis and Paula Melillo**

Map Lot and Block: 2321-008-00-0000

Site Location 985 Wintergreen Avenue

Property Size: 1.2 Acres

This site was deemed unusable due to lack of interest from the owner.

6. **Owner: Eva and William Dagostino, Trustees**

Map Lot and Block: 2422-052-00-0000

Site Location: 95 Building Brook Road

Property Size: 4.56 Acres

This site was deemed unusable due to lack of interest from the owner.

7. **Owner: Gabrielle Scirocco (Proposed Property)**

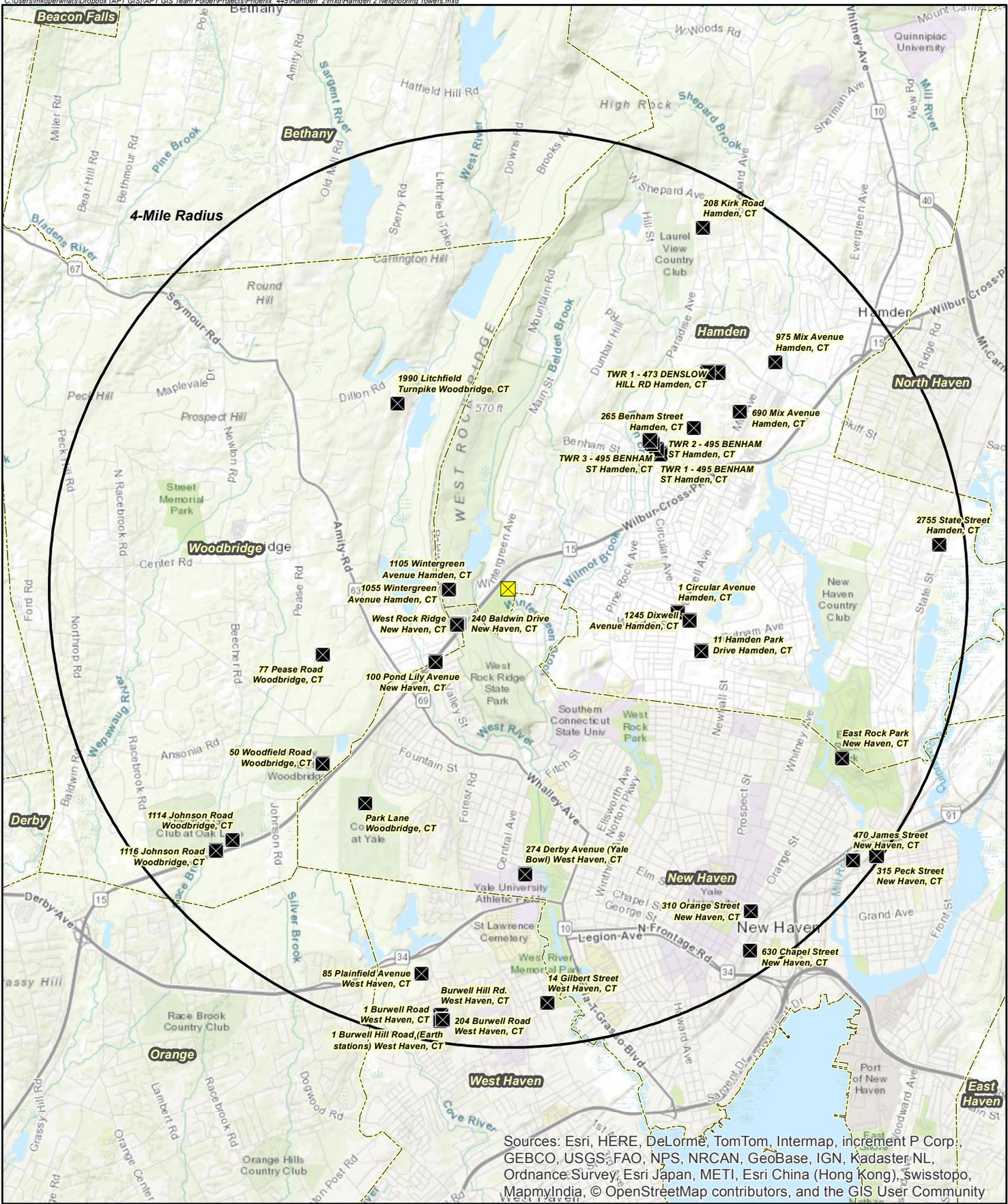
Map Lot and Block: 2322-110-00-0000

Site Location: 796 Woodin Street

Property Size: 6.75+/- Acres

This property is Tarpon's proposed property for the installation of the wireless communication facility.

Tarpon determined that the Subject Site is superior to the other properties in the area. The Property is an approximately 6.75+/- acre parcel of mostly wooded land that is occupied by a residence and multiple outbuildings located in its northern portion. Visibility of the tower would be limited.



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

- Legend**
- Proposed Facility
 - Existing Towers Within 4 Miles of Proposed Facility
 - 4-Mile Radius
 - Municipal Boundary

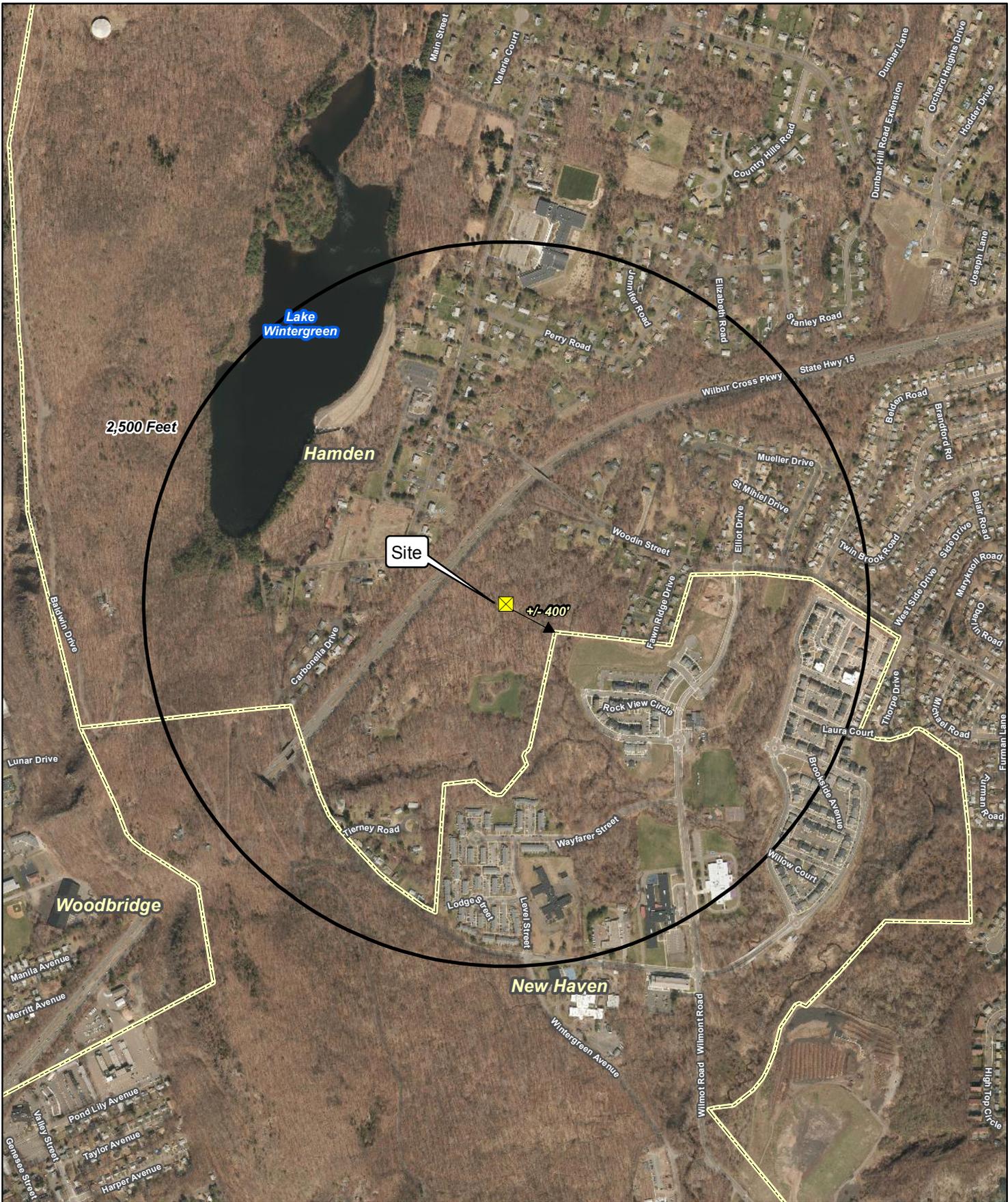
Base Map Source: ESRI World Topographic Map
 Data Sources: CSC Tower Database, Updated November 2018;
 FCC ASR GIS Database, Updated 2012
 Map Scale: 1 inch = 6,000 feet
 Map Date: December 2018



Existing Adjacent Towers

Proposed Wireless Telecommunications Facility
 Hamden CT
 796 Woodin Street
 Hamden, Connecticut





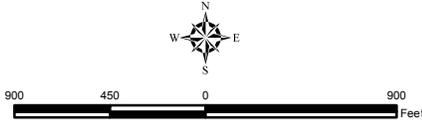
Legend

-  Site
-  2,500-Foot Radius
-  Municipal Boundary

Municipal Boundary Map

Proposed Wireless
Telecommunications Facility
Hamden CT
796 Woodin Street
Hamden, Connecticut

Map Notes:
Base Map Source: CTECO 2016 Imagery
Map Scale: 1 inch = 900 feet
Map Date: December 2018



SECTION 3

PROPOSED SITE AND FACILITY

**796 Woodin Street
Hamden, Connecticut 06514**

Tax Map# 2322/110/00/0000
6.75+/- Acres

GENERAL SITE AND FACILITY DESCRIPTION

The Site is an approximately 6.75+/- acre generally wooded parcel at 796 Woodin Street in Hamden, Connecticut. The site is situated on the south side of Woodin Street and abutting the Wilbur Cross Parkway (CT Route 15) to the west. The parcel is the site of a single-family residence and multiple modern outbuildings (a mix of sheds and horse barns) scattered a short distance from the residence.

Tarpon is proposing to construct a telecommunications facility consisting of a 120'tall monopole, situated within a 40' x 70' fenced (chain link) equipment compound within a 70' x 70' leased area, located approximately 850' south of the on-site residence. A 20'wide access and utility easement originating off Woodin Street would follow new gravel road to a point immediately west of the attached garage. It would then continue to the southwest along the parcel's western boundary before swinging to the southeast and terminating at the proposed tower location. A 12'wide gravel access drive would be constructed west of the garage to the compound. The antennas affixed to the top of the monopole will consist of Verizon panel antennas, mounted in three sectors at a maximum height of 124' to the top of the antennas.

PROJECT SUMMARY

SCOPE OF WORK: TARPON TOWERS II, LLC IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS:
 120 FOOT TOWER
 70'x70' FENCED COMPOUND
 POWER AND TELCO UTILITIES
 VERIZON EQUIPMENT ON 7'-6"x4' CONCRETE PAD
 TWELVE (12) VERIZON ANTENNAS, SIX (9) RADIOS (RRH) WITH ASSOCIATED CABLING AND APPURTENANCES.
 T-MOBILE EQUIPMENT CABINETS WITH GENERATOR ON 13'x8' CONCRETE PAD, NINE (9) T-MOBILE ANTENNAS, ONE (1) DISH ANTENNA AND NINE (9) RRHs WITH ASSOCIATED CABLING AND APPURTENANCES.

SITE ADDRESS: 796 WOODIN STREET
 HAMDEN, CT 06514

LATITUDE: 41° 20' 59.24" N
 LONGITUDE: 72° 57' 45.31" W

PROPERTY OWNER: GABRIELLE SCIROCCO
 796 WOODIN STREET
 HAMDEN, CT 06514

TAX MAP#: 2322/110/00/0000

POWER COMPANY: UNITED ILLUMINATION
 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS

TOWER OWNER/APPLICANT: TARPON TOWERS II, LLC
 1001 3RD AVENUE WEST, SUITE 420
 BRADENTON, FL 34205

CO APPLICANT: CELLCO PARTNERSHIP D/B/A/
 VERIZON WIRELESS
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

CO APPLICANT: T-MOBILE
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002



CELLCO PARTNERSHIP

d.b.a. **verizon**

WIRELESS COMMUNICATIONS FACILITY



TECH REPORT
SITE NUMBER: CT1225
SITE NAME: HAMDEN II

TECH REPORT



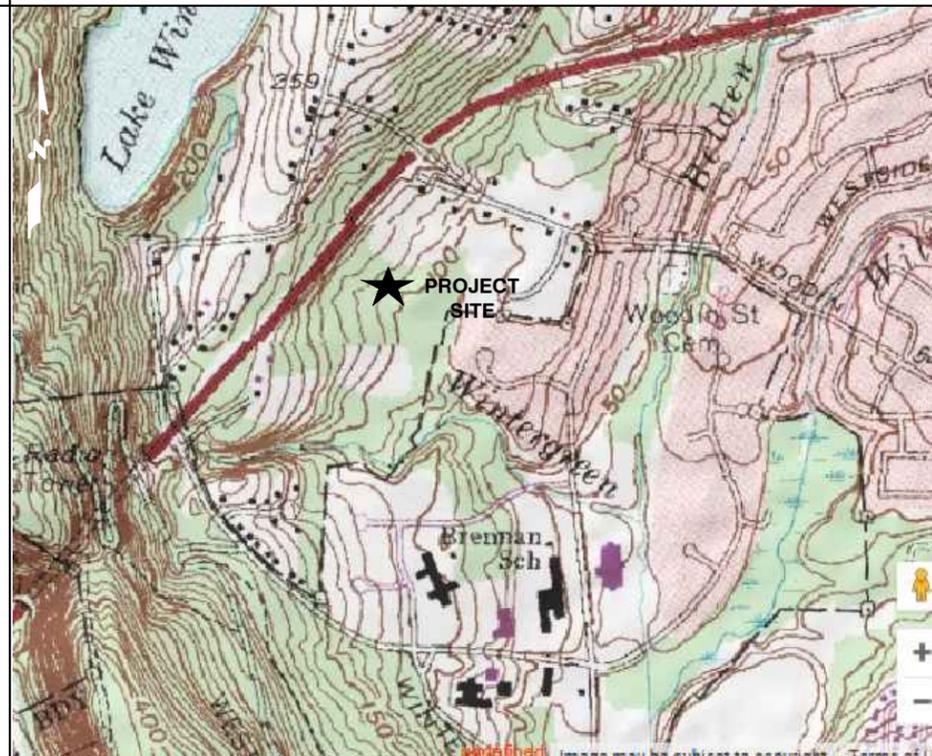
DRAWING INDEX

REV

- T-1 TITLE SHEET
- TR-1 COMPOUND PLAN
- TR-2 SITE PLAN

- 0
- 0
- 0

VICINITY MAP



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF TARPON TOWERS II. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	04/23/18	ISSUED FOR REVIEW	KAM

SITE NAME:
HAMDEN II

SITE ADDRESS:
 796 WOODIN STREET
 HAMDEN, CT 06514

SHEET TITLE
SITE PLAN

SHEET NUMBER
T-1



VICINITY MAP
SCALE: N.T.S.

CENTER OF STRUCTURE LAT: N41° 20' 59.24"
COORDINATES: LONG: W72° 57' 45.31"

NOTE
WETLAND INSPECTION REPORT BY ALL-POINTS
TECHNOLOGY CORPORATION DATED APRIL 14, 2018.

2221~33
1090 WINTERGREEN AVENUE
N/F
CITY OF NEW HAVEN
NATURE CENTER
1090 WINTERGREEN AVENUE
HAMDEN, CT 06518

PROPOSED 12' WIDE
GRAVEL DRIVEWAY

PROPOSED POWER AND TELCO
SERVICE ROUTED UNDERGROUND FROM
EXISTING UTILITY POLE #2244 TO
EQUIPMENT COMPOUND

PROPOSED 20' WIDE
ACCESS & UTILITY
EASEMENT

WILBUR CROSS PARKWAY

R=2714.73'
L=360.41'
CHD=N44°31'38"E
CHD L=360.15'

14" CPE
FLARED END
INV.=131.78'

RETAINING WALL
UP/LP #2244

ELEC METER
DECK

4" PVC
INV.=138.15'

UP/LP #2245
1 TRANSFORMER

WOODIN STREET

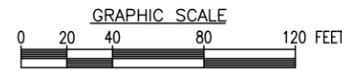
EXISTING LIMIT OF
WETLANDS (TYP.)

LOCUS
2322~110
796 WOODIN STREET
N/F
GABRIELLE SCIROCCO
796 WOODIN STREET
HAMDEN, CT 06514
AREA = 6.75 AC. ±

2322~111
784 WOODIN STREET
N/F
PAUL G. MESSINEO &
SARAH NAZARIO
784 WOODIN STREET
HAMDEN, CT 06514

2322~100
WOODIN STREET
N/F
TOWN OF HAMDEN
2750 DIXWELL AVENUE
HAMDEN, CT 06518

1
TR-2
PROPOSED 70'x70'
FENCED COMPOUND
PROPOSED 75'x75'
LEASE AREA



TECH REPORT

TARPON TOWERS
TARPON TOWERS II, LLC
1001 3rd AVENUE WEST, SUITE 420
BRADENTON, FL 34205

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

CHECKED BY: DJR

APPROVED BY: DJR

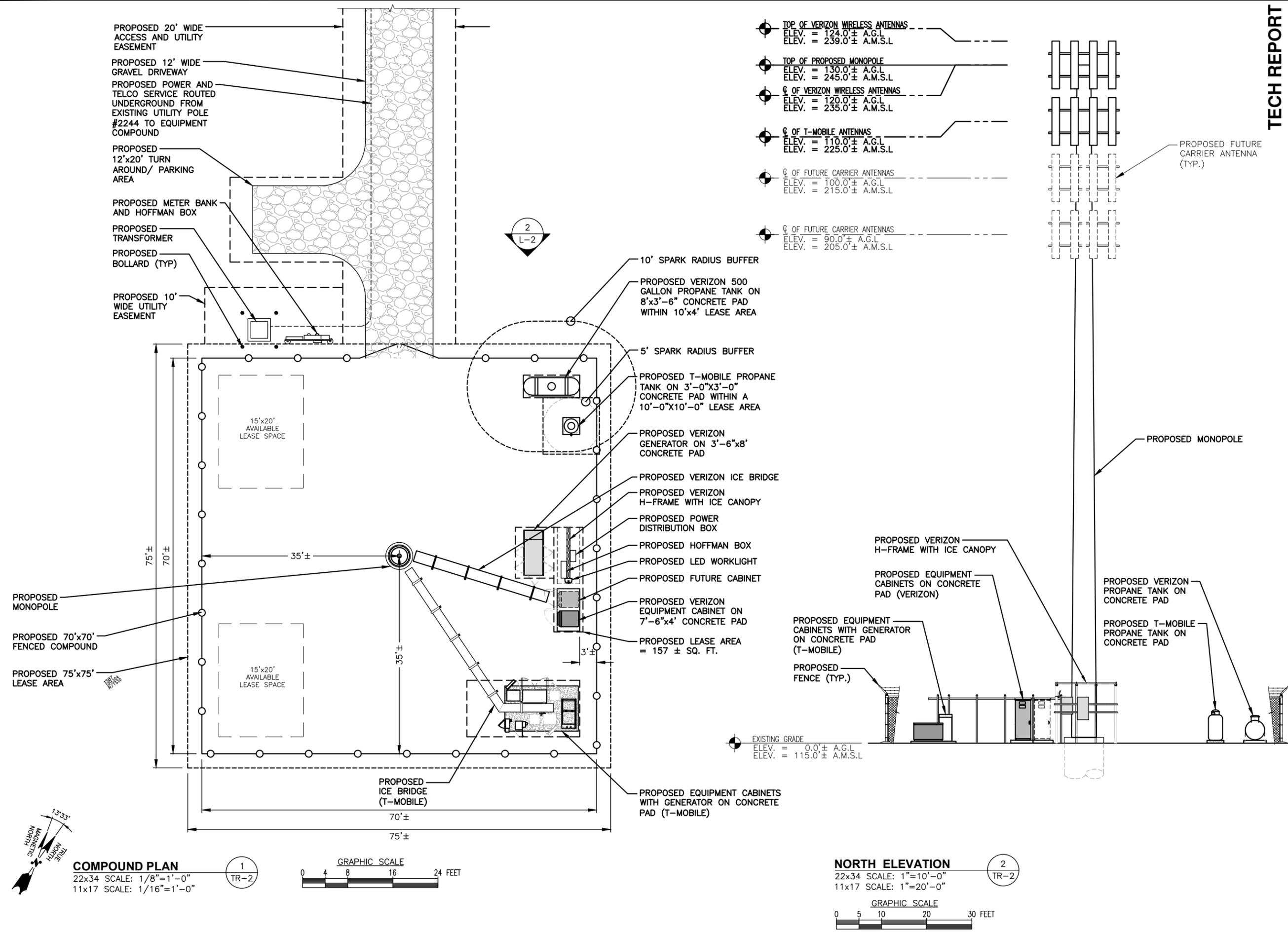
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	04/23/18	ISSUED FOR REVIEW	KAM

SITE NAME:
HAMDEN II

SITE ADDRESS:
796 WOODIN STREET
HAMDEN, CT 06514

SHEET TITLE
SITE PLAN

SHEET NUMBER
TR-1



CHECKED BY: DJR

APPROVED BY: DJR

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	04/23/18	ISSUED FOR REVIEW	KAM

SITE NAME:
HAMDEN II

SITE ADDRESS:
 796 WOODIN STREET
 HAMDEN, CT 06514

SHEET TITLE
COMPOUND PLAN

SHEET NUMBER
TR-2

SITE EVALUATION REPORT

I. LOCATION

- A. COORDINATES: N 41°20' 59.24"
W 72°57' 45.31"
- B. GROUND ELEVATION: 123 +/- feet AMSL(Proposed)
- C. USGS MAP: 7.5 Minute Series Topographic Quadrangle Map, New Haven, Connecticut, 1984.
- D. SITE ADDRESS: 796 Woodin Street
Hamden, CT 06514
- E. ZONING CLASSIFICATION: Parcel is zoned R-2

II. DESCRIPTION

- A. SITE SIZE: 4,900 square feet
- B. TOWER TYPE/HEIGHT: 120 foot monopole with antenna to 124 feet
- C. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER:
The existing terrain consists largely of existing forested area on a residential lot. There are wetlands located on the Property, but the leased area and the proposed development is outside the wetlands.
- D. LAND USE WITHIN ¼ MILE OF SITE: A mix of forested land, residential development, and Route 15 (Wilbur Cross Parkway).
- E. LOCATION OF SCHOOLS AND COMMERCIAL DAYCARE NEAR SITE:
The closest school is located approximately 0.5 miles from the proposed Site. This school is located at 195 Wilmot Road in New Haven (Clarence Rogers School). The nearest commercial day care center is located approximately 0.7 miles from the proposed Site. This day care center is located at 196 Belden Road (Marguerite Kraus Daycare).

III. FACILITIES

- A. POWER COMPANY: United Illuminating
- B. POWER PROXIMITY TO SITE: Existing utility pole #2244 is immediately adjacent to the Site.

- C. TELEPHONE COMPANY: Frontier Communications
- D. PHONE SERVICE PROXIMITY: Existing utility pole #2244 is immediately adjacent to the site.
- E. VEHICLE ACCESS TO SITE: Access to the proposed tower would be across a proposed gravel drive.
- F. OBSTRUCTION: None

IV. LEGAL

A. PURCHASE [] LEASE [X]

B. OWNER: Gabrielle Scirocco

C. ADDRESS: 796 Woodin Street, Hamden, Connecticut 06514

D. DEED ON FILE AT: Book 4185/Page 80

**FACILITIES AND EQUIPMENT SPECIFICATIONS
(TOWER & EQUIPMENT)**

I. TOWER SPECIFICATIONS

- A. MANUFACTURER: TBD
- B. TYPE: Monopole
- C. HEIGHT: 120'
- D. DIMENSIONS: TBD

II. TOWER LOADING

A. VERIZON

- 1. MODEL: TBD
- 2. DIMENSIONS: TBD
- 3. ANTENNAS: 12 (twelve) antennas on a low-profile platform
- 4. TOWER POSITION: 120 feet AGL to the center of the antenna array
- 5. TRANSMISSION LINES: TBD

- B. FUTURE CARRIERS: Tower to be designed to support 3 additional carriers and emergency service as needed.

III. ENGINEERING ANALYSIS AND CERTIFICATION:

All work shall be in accordance with the 2003 International Building Code as modified by the 2009 Connecticut supplement, including the TIA/EIA-222 revision "G" structural standards for steel antenna towers and supporting structures." 2005 Connecticut Fire Safety Code and 2009 amendments, National Electrical Code and local codes. The foundation design will be based on soil conditions at the site.

ENVIRONMENTAL ASSESSMENT STATEMENT

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. The construction, operation and maintenance of the Facility would not adversely impact any wetlands. There are existing wetlands on the Property, but the location of the Facility has been designed to avoid the wetlands. Since it is proposed to be in proximity to the Property wetlands, mitigation is proposed for potential indirect impacts to wetland resources. The Site is not within a 100-year flood zone. Tarpon would implement Best Management Practices during construction to control storm water and erosion.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at this Facility would emit no air pollutants of any kind. For limited periods during power outages, a generator will be utilized.

C. LAND

Clearing and grading would be required for development of the proposed Facility. The remainder of the Property would remain unchanged by the construction and operation of the Facility.

D. NOISE

The Facility equipment after construction would not emit any noise other than the installed heating, air conditioning, ventilation systems, and in the event of a power outage, the proposed self-contained diesel generator. Some noise is anticipated during Facility construction, which is expected to take approximately ten weeks.

E. POWER DENSITY

Facility is compliant with FCC/ANSI standards. *See attached Statement of Need and Power Density Calculations*

F. VISIBILITY

The Visual Assessment Package provides photographs of a tower simulation from 27 locations within a two-mile radius of the potential site.

Visibility of the tower is limited and, in many instances, obscured. See *attached Visual Assessment Package dated July 2018*.

II. SCENIC, NATURAL, HISTORIC & RECREATIONAL VALUES

Tarpon has retained All-Points Technology Corporation to evaluate the Facility in accordance with the FCC's regulations implementing the National Environmental Policy Act of 1969 ("NEPA"). The proposed Facility has no effect on protected species and is not located within the boundaries of (or within one mile of) federally protected land. See *attached NEPA Report dated September 28, 2018*.



AVIAN RESOURCES EVALUATION

December 5, 2018

**Tarpon Towers
c/o Phoenix Partnership
110 Washington Avenue
North Haven, Connecticut 06473**

APT Project No.: CT455170

**Re: Proposed Hamden 2 CT Facility
796 Woodin Street
Hamden, Connecticut**

Tarpon Towers proposes to construct a new wireless telecommunications facility ("Facility") at 796 Woodin Street in Hamden, Connecticut (the "host Property"). The host Property consists of an approximately 6.81-acre residentially developed and forested parcel. The area proposed for the Facility is located in the southern portion of the host Property in an area that is currently comprised of mature upland hardwood forest (the "Site"). Tarpon Towers proposes to install a 120-foot tall monopole tower and ground equipment enclosure within a 40-foot by 70-foot gravel compound area surrounded with an 8-foot tall chain link fence. A proposed 20-foot wide access and utility easement would come off of Woodin Street and follow the western property boundary in order to gain access and provide electric and telco services to the proposed facility.

The purpose of this evaluation is to document the proposed Facility's proximity to avian resource areas and its compliance with recommended guidelines of the United States Fish and Wildlife Service ("USFWS") for minimizing the potential for telecommunications towers to impact bird species.

All-Points Technology Corporation, P.C. ("APT") reviewed several publicly-available sources of avian data for the state of Connecticut to provide the following information with respect to potential impacts on migratory birds associated with the proposed development. This desktop analysis and attached graphics identify avian resources and their proximities to the host Property. Information within an approximate 3-mile radius of the host Property is graphically depicted on the attached Avian Resources Map. Some of the avian data referenced herein are not located in proximity to the host Property and are therefore not visible on the referenced map due to its scale. However, in those cases the distances separating the host Property from the resources are identified in the discussions below.

Proximity to Important Bird Areas

The National Audubon Society has identified 27 Important Bird Areas ("IBAs") in the state of Connecticut. IBAs are sites that provide essential habitat for breeding, wintering, and/or migrating birds. To achieve this designation, an IBA must support species of conservation concern, restricted-range species, species

vulnerable due to concentration in one general habitat type or biome, or species vulnerable due to their occurrence at high densities as a result of their congregatory behavior¹. The closest IBA to the host Property is the West River Memorial & Edgewood Park in New Haven located approximately 1.7 miles to the south. Edgewood Park is one of the treasures of the City of New Haven and offers countless ways to enjoy nature and the outdoors, including: walking, jogging, bird-watching, cross-country skiing, tennis, relaxing by a pond, or skateboarding at Coogan Pavilion. West River Memorial Park was originally inspired by the Mall in Washington D.C. and hosts the Barnard Nature Center. The Nature Center features a state-of-the-art classroom, green roof, and park ranger office. Due to its distance from the Site, this IBA would not experience an adverse impact resulting from the proposed development of the Facility.

Supporting Migratory Bird Data

Beyond Audubon's IBAs, the following analysis and attached graphics also identify several additional avian resources and their proximities to the host Property. Although these data sources may not represent habitat indicative of important bird areas, they may indicate possible bird concentrations² or migratory pathways.

Critical Habitat

Connecticut Critical Habitats depict the classification and distribution of 25 rare and specialized wildlife habitats in the state. It represents a compilation of ecological information collected over many years by state agencies, conservation organizations and individuals. Critical habitats range in size from areas less than one acre to areas that are tens of acres in extent. The Connecticut Critical Habitats information can serve to highlight ecologically significant areas and to target areas of species diversity for land conservation and protection but may not necessarily be indicative of habitat for bird species. The nearest Critical Habitat to the proposed Facility is an terrestrial forested dry subacidic forest Area associated with West Rock Ridge State Park located approximately 0.56 miles to the west. Based on the distance separating this resource from the proposed Facility, no adverse impacts are anticipated.

Avian Survey Routes and Points

Breeding Bird Survey Route

The North American Breeding Bird Survey is a cooperative effort between various agencies and volunteer groups to monitor the status and trends of North American bird populations. Routes are randomly located to sample habitats that are representative of an entire region and do not necessarily represent concentrations of avifauna or identification of critical avian habitats. Each year during the height of the avian breeding season (June for most of the United States) participants skilled in avian identification collect bird population data along roadside survey routes. Each survey route is approximately 24.5 miles long and contains 50 stops located at 0.5-mile intervals. At each stop, a

¹ http://web4.audubon.org/bird/iba/iba_intro.html

² "bird concentrations" is related to the USFWS *Revised Voluntary Guidelines for communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning* (September 27, 2013) analysis provided at the end of this document

three-minute count is conducted. During each count, every bird seen or heard within a 0.25-mile radius is recorded. The resulting data is used by conservation managers, scientists, and the general public to estimate population trends and relative abundances and to assess bird conservation priorities. The nearest survey route to the host Property is the Westbrook Breeding Bird Survey Route (Route #18006) located approximately 12.2 miles to the east. This ±27-mile long bird survey route begins on Route 1 in Clinton and generally winds its way northwest through Killingworth before terminating in Guilford. Since bird survey routes represent randomly selected data collection areas, they do not necessarily represent a potential restriction to development projects, including the proposed Facility.

Hawk Watch Site

The Hawk Migration Association of North America (“HMANA”) is a membership-based organization committed to the conservation of raptors through the scientific study, enjoyment and appreciation of raptor migration. HMANA collects hawk count data from almost 200 affiliated raptor monitoring sites throughout the United States, Canada and Mexico, identified as “Hawk Watch Sites.” In Connecticut, Hawk Watch Sites are typically situated on prominent hills and mountains that tend to concentrate migrating raptors. The nearest Hawk Watch Site, Maltby Lakes, is located in Orange, approximately 3.3 miles to the southwest of the proposed Facility. Based on the distance separating this possible raptor migratory route from the proposed Facility, no adverse impacts are anticipated.

Most hawks migrate during the day (diurnal) to take advantage of two theorized benefits: (1) diurnal migration allows for the use of updrafts or rising columns of air called thermals to gain lift without flapping thereby reducing energy loss; and, (2) day migrants can search for prey and forage as they migrate. Therefore, no adverse impacts to migrating hawks are anticipated with development of the Facility, based on the ±3.3-mile separation distance to the nearest Hawk Watch Site and hawk migration behavior occurring during the daytime under favorable weather conditions when thermals form.

Bald Eagle Survey Route

Bald Eagle Survey Routes consist of locations of midwinter Bald Eagle counts from 1986 to 2005 with an update provided in 2008. This survey was initiated in 1979 by the National Wildlife Federation. This database includes information on statewide, regional and national trends. Survey routes are included in the database only if they were surveyed consistently in at least four years and where at least four eagles were counted in a single year. The nearest Bald Eagle Survey Route is the Naugatuck River Survey Route Number 14 located from Derby to Winchester and runs along the Naugatuck River approximately 6 miles west of the host Property.

Bald eagle migration patterns are complex, dependent on age of the individual, climate (particularly during the winter) and availability of food.³ Adult birds typically migrate alone and generally as needed when food becomes unavailable, although concentrations of migrants can occur at communal feeding

³ Buehler, David A. 2000. Bald Eagle (*Haliaeetus leucocephalus*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/506> [Accessed 09/09/13].

and roost sites. Migration typically occurs during the middle of day (10:30–17:00) as thermals provide for opportunities to soar up with limited energetic expense; Bald Eagle migration altitudes are estimated to average 1,500–3,050 m by ground observers.⁴ Four adults tracked by fixed-wing aircraft in Montana averaged 98 km/d during spring migration and migrated at 200–600 m above ground (McClelland et al. 1996).⁵

In addition, the USFWS's *National Bald Eagle Management Guidelines* (May 2007) recommends a 660 foot buffer to bald eagle nests if the activity will be visible from the nest with an additional management practice recommendation of retaining mature trees and old growth stands, particularly within 0.5 mile from water. No known bald eagle nests occur in the vicinity of the host Property.

Therefore, no adverse impacts to migrating Bald Eagle are anticipated with development of the Facility. This conclusion is based on the short (120-foot) height of the Facility, eagle migration patterns during the daytime under favorable weather conditions when thermals form and compliance with USFWS bald eagle management guidelines.

Flyways

The host Property is located in New Haven County, approximately 4.6 miles southeast of Long Island Sound. The Connecticut coast lies within the Atlantic Flyway, one of four generally recognized regional primary migratory bird flyways (Mississippi, Central and Pacific being the others). This regional flyway is used by migratory birds travelling to and from summering and wintering grounds. The Atlantic Flyway is particularly important for many species of migratory waterfowl and shorebirds, and Connecticut's coast serves as vital stopover habitat. Migratory land birds also stop along coastal habitats before making their way inland. Smaller inland migratory flyways ("secondary flyways") are often concentrated along major riparian areas as birds use these valuable stopover habitats to rest and refuel as they make their way further inland to their preferred breeding habitats. The Connecticut Migratory Bird Stopover Habitat Project (Stokowski, 2002)⁶ identified potential flyways along the Housatonic, Naugatuck, Thames, and Connecticut Rivers. This study paralleled a similar earlier study conducted by the Silvio O. Conte National Fish & Wildlife Refuge (Neotropical Migrant Bird Stopover Habitat Survey⁷), which consisted of collection of migratory bird data along the Connecticut River and the following major Connecticut River tributaries: Farmington, Hockanum, Scantic, Park, Mattabesset, Salmon, and Eight Mile Rivers. Of these potential flyways, the nearest to the host Property is the Quinnipiac River, located approximately 4.0 miles to the east. The Wintergreen Brook riparian corridor, located 0.28 miles west of the host Property Wintergreen Brook, is not identified as a potential flyway but potentially forms a secondary flyway as birds move northward from the Quinnipiac River corridor during the spring migration. These major riparian corridors may provide

⁴ Harmata, A. R. 1984. Bald Eagles of the San Luis valley, Colorado: their winter ecology and spring migration. Ph.D. Thesis. Montana State Univ. Bozeman.

⁵ McClelland, B. R., P. T. McClelland, R. E. Yates, E. L. Caton, and M. E. McFadden. 1996. Fledging and migration of juvenile Bald Eagles from Glacier National Park, Montana. *J. Raptor Res.* 30:79-89.

⁶ Stokowski, J.T. 2002. Migratory Bird Stopover Habitat Project Finishes First Year. Connecticut Wildlife, November/December 2002. P.4.

⁷ The Silvio O. Conte National Fish & Wildlife Refuge Neotropical Migrant Bird Stopover Habitat Survey <http://www.science.smith.edu/stopoverbirds/index.html>

secondary flyways as they likely offer more food and protection than more exposed upland sites, particularly during the spring migration⁸.

Siting of tower structures within flyways can be a concern, particularly for tall towers and even more particularly for tall towers with guy wires and lighting. The majority of studies on bird mortality due to towers focuses on very tall towers (greater than 1000 feet), illuminated with non-flashing lights, and guyed. These types of towers, particularly if sited in major migratory pathways, do result in significant bird mortality (Manville, 2005)⁹. The proposed Facility is not this type of tower, being an unlit, unguyed monopole structure only 120 feet in height. More recent studies of short communication towers (<300 feet) reveal that they rarely kill migratory birds¹⁰. Studies of mean flight altitude of migrating birds reveal flight altitudes of 410 meters (1350 feet), with flight altitudes on nights with bad weather between 200 and 300 meters above ground level (656 to 984 feet)¹¹.

No adverse impacts to migrating bird species are anticipated with development of the Facility, based on its design (unlit and unguyed) and relatively short (120-foot) height, and the distances separating the host Property from the potential Quinnipiac and Wintergreen Brook flyways. The design and height of the proposed Facility would also mitigate the potential for migratory bird impacts should the Wintergreen Brook be used as a secondary flyway.

Waterfowl Focus Areas

The Atlantic Coast Joint Venture (“ACJV”) is an affiliation of federal, state, regional and local partners working together to address bird conservation planning along the Atlantic Flyway. The ACJV has identified waterfowl focus areas recognizing the most important habitats for waterfowl along the Atlantic Flyway. Connecticut contains several of these waterfowl focus areas. The nearest waterfowl focus area to the host Property is the New Haven Harbor area, located approximately 1.6 miles to the south. Please refer to the attached Connecticut Waterfowl Focus Areas Map. Based on the distance of this waterfowl focus area to the host Property, no impact to migratory waterfowl would result from development of the proposed Facility.

CTDEEP Migratory Waterfowl Data

The Connecticut Department of Energy and Environmental Protection (“CTDEEP”) created a Geographic Information System (“GIS”) data layer in 1999 identifying concentration areas of migratory waterfowl at specific locations in Connecticut. The intent of this data layer is to assist in the identification of migratory waterfowl resource areas in the event of an oil spill or other condition that might be a threat to waterfowl

⁸ The Silvio O. Conte National Fish & Wildlife Refuge Neotropical Migrant Bird Stopover Habitat Survey. http://www.science.smith.edu/stopoverbirds/Chapter5_Conclusions&Recommendations.html

⁹ Manville, A.M. II. 2005. Bird strikes and electrocutions at power lines, communications towers, and wind turbines: state of the art and state of the science - next steps toward mitigation. Bird Conservation Implementation in the Americas: Proceedings 3rd International Partners in Flight Conference 2002. C.J. Ralph and T.D. Rich, editors. USDA Forest Service General Technical Report PSW-GTR-191. Pacific Southwest Research Station, Albany CA. pp. 1-51-1064.

¹⁰ Kerlinger, P. 2000. Avian Mortality at Communication Towers: A Review of Recent Literature, Research, and Methodology. Prepared for U.S. Fish and Wildlife Service Office of Migratory Bird Management.

¹¹ Mabee, T.J., B.A. Cooper, J.H. Plissner, D.P. Young. 2006. Nocturnal bird migration over an Appalachian ridge at a proposed wind power project. Wildlife Society Bulletin 34:682-690.

species. This data layer identifies conditions at a particular point in time and has not been updated since 1999.

The nearest migratory waterfowl area, the Quinnipiac River in Hamden, is located approximately 3.7 miles to the east of the host Property. The associated species are identified as American black duck, Canada goose, canvasback, mallard, and green wing teal. Based on the distance of this migratory waterfowl area to the host Property, no impact to migratory waterfowl would result from development of the proposed Facility.

CTDEEP Natural Diversity Data Base

CTDEEP's Natural Diversity Data Base ("NDDB") program performs hundreds of environmental reviews each year to determine the impact of proposed development projects on state listed species and to help landowners conserve the state's biodiversity. State agencies are required to ensure that any activity authorized, funded or performed by a state agency does not threaten the continued existence of endangered or threatened species. Maps have been developed to serve as a pre-screening tool to help applicants determine if there is a potential impact to state listed species.

The NDDB maps represent approximate locations of endangered, threatened and special concern species and significant natural communities in Connecticut. The locations of species and natural communities depicted on the maps are based on data collected over the years by CTDEEP staff, scientists, conservation groups, and landowners. In some cases an occurrence represents a location derived from literature, museum records and/or specimens. These data are compiled and maintained in the NDDB. The general locations of species and communities are symbolized as shaded areas on the maps. Exact locations have been masked to protect sensitive species from collection and disturbance and to protect landowner's rights whenever species occur on private property.

According to an August 24, 2018 letter from the CTDEEP NDDB, the agency does not anticipate negative impacts to State-listed species resulting from this project.

USFWS Communications Towers Compliance

In August 2016, the USFWS prepared its *Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning*. These suggested best practices were developed to assist tower companies in developing their communication systems in a way which minimizes the risk to migratory birds and threatened and endangered species. The following avoidance and minimization measures, when used comprehensively, are recommended by USFWS to reduce the risk of bird mortality at communication towers. APT offers the following responses to each of the USFWS recommendations which are abridged from the original document.

1. *Collocation of the communications equipment on an existing communication tower or other structure (e.g., billboard, water and transmission tower, distribution pole, or building mount) is strongly recommended. This recommendation is intended to reduce the number of towers across the landscape.*

Collocation opportunities on existing towers or non-tower structures are not available in the area while achieving the required radio frequency ("RF") coverage objectives.

2. *Contact with USFWS Field Office. Communicate project plans to nearest USFWS Field Office.*

APT completed consultation protocols in accordance with Federal Communications Commission ("FCC") rules implementing the National Environmental Policy Act ("NEPA") and Section 7 of the Endangered Species Act through the USFWS Information, Planning, and Conservation System ("IPaC"). Based on the results of the IPaC review, one federally-listed threatened species is known to occur in the vicinity of the host property: northern long-eared bat ("NLEB"; *Myotis septentrionalis*). As a result of this preliminary finding, APT performed an evaluation to determine if development of the proposed Facility would result in a likely adverse effect to NLEB.

Consultation with the CTDEEP Wildlife Division Natural Diversity Data Base NDDDB revealed that the host Property is not within 150 feet of a known occupied maternity roost tree and is not within 0.25 mile of a known NLEB hibernaculum. The nearest NLEB habitat resource to the proposed activity is located in Branford, nearly 15 miles to the southeast. Therefore, the project would not adversely affect NLEB.

3. *Placement. All new towers should be sited to minimize environmental impacts to the maximum extent practicable.*

- a. *Place new towers within existing "antenna farms" (i.e., clusters of towers) when possible.*

There are no existing "antenna farms" in the vicinity of the Site that would satisfy the RF coverage objectives.

- b. *Select already degraded areas for tower placement.*

There are no degraded areas in the vicinity of the Site that would satisfy the RF coverage objectives.

- c. *Towers should not be sited in or near wetlands, other known bird concentration areas (e.g., state or federal refuges, staging areas, rookeries, and Important Bird Areas), or in known migratory bird*

movement routes, daily movement flyways, areas of breeding concentration, in habitat of threatened or endangered species, or key habitats for [Birds of Conservation Concern](#).

The proposed Facility is not within wetlands, known bird concentration area, migratory or daily movement flyway, and habitat of threatened/endangered species or result in fragmentation of a core forest habitat that could potentially provide habitat for Birds of Conservation Concern.

d. Towers should avoid ridgelines, coastal areas, wetlands or other known bird concentration areas.

The Site is not located within any of these areas.

e. Towers and associated facilities should be designed, sited, and constructed so as to avoid or minimize habitat loss within and adjacent to the tower "footprint". In addition, several shorter, un-guyed towers may be preferable to one, tall guyed, lit tower.

The proposed Facility will be sited, designed, and constructed to accommodate proposed equipment and to allow for future collocations within the smallest footprint possible, thus minimizing habitat fragmentation or the creation of barriers or excessive disturbance. The proposed Facility would consist of a 120-foot tall monopole structure which requires neither guy wires nor lighting and is therefore consistent with USFWS' environmentally preferred "gold standard".

4. Construction. During construction, the following considerations can reduce the risk of take of birds:

a. Schedule all vegetation removal and maintenance (e.g., general landscaping activities, trimming, grubbing) activities outside of the peak bird breeding season to reduce the risk of bird take.

To the extent feasible, these activities would be scheduled outside the peak breeding season.

b. When vegetation removal activities cannot avoid the bird breeding season, conduct nest clearance surveys:

- i. Surveys should be conducted no more than five days prior to the scheduled activity to ensure recently constructed nests are identified;*
- ii. Timing and dimensions of the area to be surveyed vary and will depend on the nature of the project, location, and expected level of vegetation disturbance; and*
- iii. If active nests are identified within or in the vicinity of the project site, avoid the site until nestlings have fledged or the nest fails. If the activity must occur, establish a buffer zone around the nest and no activities will occur within that zone until nestlings have fledged.*

If construction activities should occur during the peak nesting period of April 15 through July 15¹², efforts would be taken to complete tree clearing work prior to April 15th; 2) or, if tree clearing has not been completed by April 15th, an avian survey may be conducted to determine if breeding birds would be disturbed; and 3) If the avian survey concludes that breeding birds would be disturbed, tree clearing activities may be restricted from the April 15 through July 15 peak nesting period (or a modified time frame based on the specific findings of the survey).

¹² USFWS identifies the peak avian nesting season as April 15 through July 15 and recommends clearing activities be performed before this period in order to comply with the Migratory Bird Treaty Act, personal communication with Maria Tur, USFWS New England Field Office, February 27, 2014.

c. Prevent the introduction of invasive plants during construction to minimize vegetation community degradation by:

- i. Use only native and local (when possible) seed stock for all temporary and permanent vegetation establishment; and*
- ii. Use vehicle wash stations prior to entering sensitive habitat areas to prevent accidental introduction of non-native plants.*

No landscaping or other vegetation plantings are proposed. No sensitive habitat areas exist at the Site.

5. *Tower Design. Tower design should consider the following attributes:*

a. Tower Height. It is recommended that new towers should be not more than 199 ft. above ground level (AGL). This height increases the mean free airspace between the top of the tower and average bird flight height, even in weather conditions with reduced cloud ceiling;

b. Guy Wires. We recommend using free standing towers such as lattice towers or monopole structures.

c. Lighting System. Lights are a primary source of bird aggregation around towers, thus minimizing all light is recommended, including:

- i. No tower lighting is the preferred option if Federal Aviation Administration (FAA) regulations and lighting standards (FAA 2015, Patterson 2012) permit.*
- ii. If taller (> 199 ft. AGL) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the FAA should be used.*
- iii. Security lighting for on-ground facilities, equipment, and infrastructure should be motion or heat-sensitive, down-shielded, and of a minimum intensity to reduce nighttime bird attraction and eliminate constant nighttime illumination while still allowing safe nighttime access to the site.*

The proposed Facility would consist of a 120-foot tall monopole structure which requires neither guy wires nor lighting and is therefore consistent with USFWS' environmentally preferred "gold standard". Security lighting for on-ground facilities would be down-shielded using Dark Sky compliant fixtures set on motion sensor with timer to eliminate constant nighttime illumination.

OPERATION AND MAINTENANCE OF ALL TOWERS

1. *Existing Tower Lighting. We recommend that towers be unlit, when allowed by FAA regulations.*

The proposed Facility would consist of a 120-foot tall monopole which does not require aviation lighting.

2. *Infrastructure Lighting. We recommend that existing infrastructure be unlit. If associated buildings require security or operational lighting, minimize light trespass using motion sensors and downshielding with minimum intensity light.*

Security lighting for on-ground facilities would be down-shielded using Dark Sky compliant fixtures set on motion sensor with timer to eliminate constant nighttime illumination.

3. *Vegetation Management. When management of facility infrastructure is required:*

a. Schedule all vegetation removal and maintenance (e.g., general landscaping activities, trimming, grubbing) activities outside of the peak bird breeding season to reduce the risk of bird take.

To the extent feasible, Tarpon Towers would schedule these activities outside the peak breeding season.

b. When vegetation removal activities cannot avoid the bird breeding season, conduct nest clearance surveys:

i. Surveys should be conducted no more than five days prior to the scheduled activity to ensure recently constructed nests are identified;

ii. Timing and dimensions of the area to be surveyed vary and will depend on the nature of the project, location, and expected level of vegetation disturbance; and

iii. If active nests are identified within or in the vicinity of the project site, avoid the site until nestlings have fledged or the nest fails. If the activity must occur, establish a buffer zone around the nest and no activities will occur within that zone until nestlings have fledged.

If construction activities should occur during the peak nesting period of April 15 through July 15, efforts would be taken to complete tree clearing work prior to April 15th; 2) or, if tree clearing has not been completed by April 15th, an avian survey may be conducted to determine if breeding birds would be disturbed; and 3) If the avian survey concludes that breeding birds would be disturbed, tree clearing activities may be restricted from the April 15 through July 15 peak nesting period (or a modified time frame based on the specific findings of the survey).

4. Birds Nesting on Towers: If birds are nesting on communication towers that require maintenance activities, contact the state natural resource protection agency and/or the USFWS for permits, recommendations, and requirements. Schedule construction and maintenance activities around the nesting and activity schedule of protected birds. Minimize excess wires and securely attach wires to the tower structure to reduce the likelihood of birds becoming entangled on the tower. Consider installing a bird nest exclusion device on the towers where birds frequently nest.

After construction, should birds nest on the proposed Facility in the future, Tarpon Towers and its leases would follow these recommendations to protect migratory birds.

6. Tower Access: Representatives from the USFWS or researchers should be allowed access to the site to evaluate bird use, conduct dead-bird searches, and conduct other research, as necessary.

With prior written notification to and approval by Tarpon Towers, USFWS research personnel would be allowed access to the proposed Facility to conduct evaluations.

DECOMMISSIONING

1. Tower Removal. Towers no longer in use, not re-licensed by the FCC for use, or determined to be obsolete should be removed from the site within 12 months of cessation of use, preferably sooner.

If the proposed Facility was no longer in use, not re-licensed by the FCC for use, or determined to be obsolete, it would be removed within 12 months of cessation of use.

Summary and Conclusions

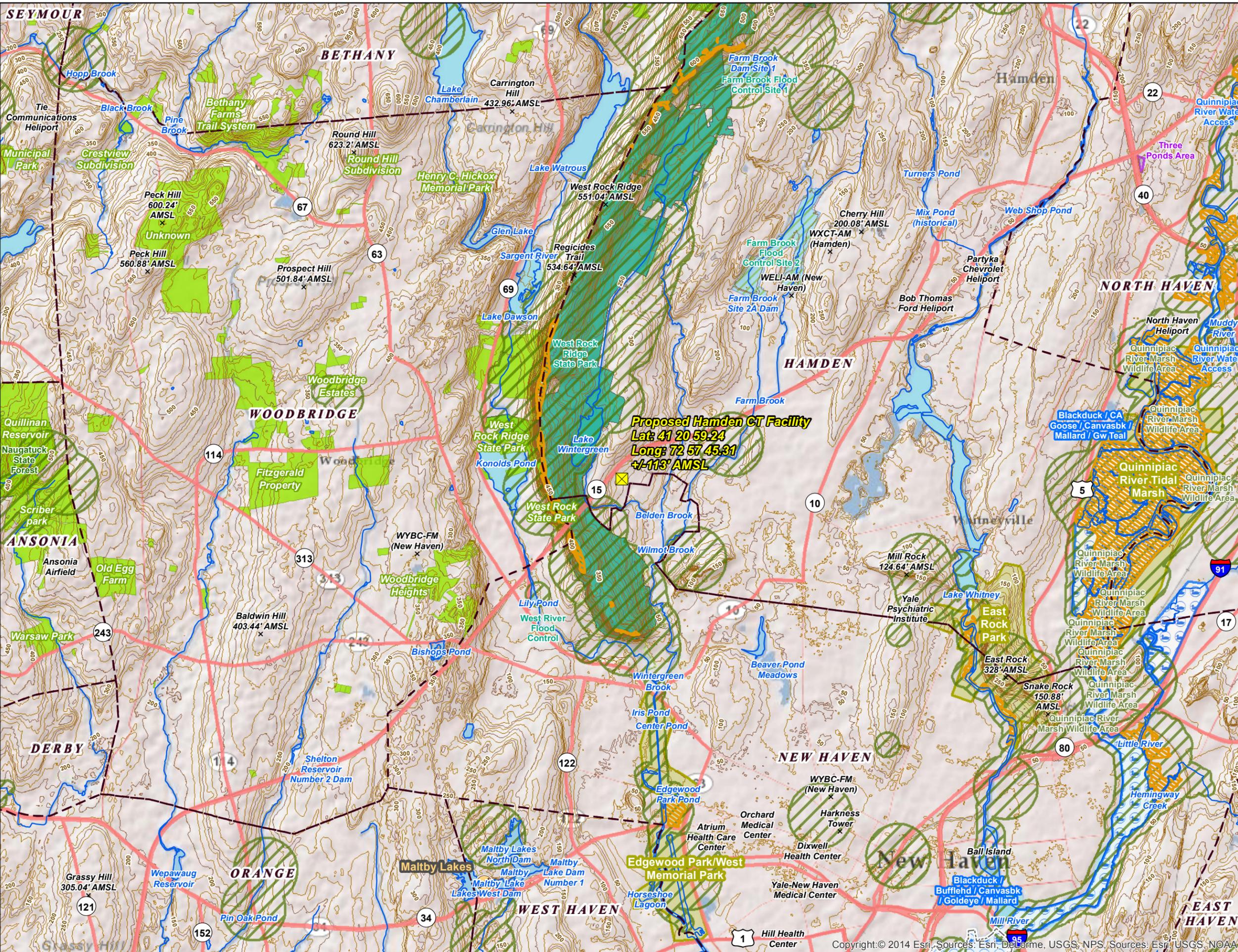
Based on the results of this desk-top evaluation, no migratory bird species are anticipated to be impacted by Tarpon Tower's proposed development. The proposed Facility is not proximate to an Important Bird Area and would comply with the USFWS guidelines for minimizing the potential impacts to bird species.

Figures

- Avian Resources Map
- Connecticut Waterfowl Focus Areas Map

Avian Resources Map

Proposed Wireless
Telecommunications Facility
Hamden CT
796 Woodin Street
Hamden, Connecticut



Legend

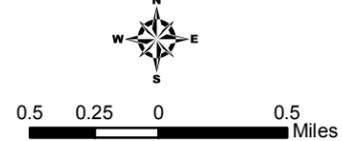
- Proposed Facility
- Bald Eagle Site*
- Hawk Watch Site
- Important Bird Site*
- Important Bird Area
- Bald Eagle Survey Route*
- Breeding Bird Survey Route*
- Natural Diversity Database (CTDEEP, 12/2016)
- Critical Habitat (CTDEEP, 07/2009)
- Migratory Waterfowl (CTDEEP, 1999)
- Protected Open Space (CTDEEP, 2011)
- Federal Open Space (CTDEEP, 2004)*
- CT DEP Property (CT DEEP, 12/2010)
 - State Forest
 - State Park
 - DEP Owned Waterbody
 - State Park Scenic Reserve*
 - Historic Preserve*
 - Natural Area Preserve*
 - Fish Hatchery*
 - Flood Control
 - State Park Trail*
 - Water Access
 - Wildlife Area
 - Wildlife Sanctuary*
 - Other
 - Open Water
 - Town Boundary
 - State Boundary

*None within mapped extents

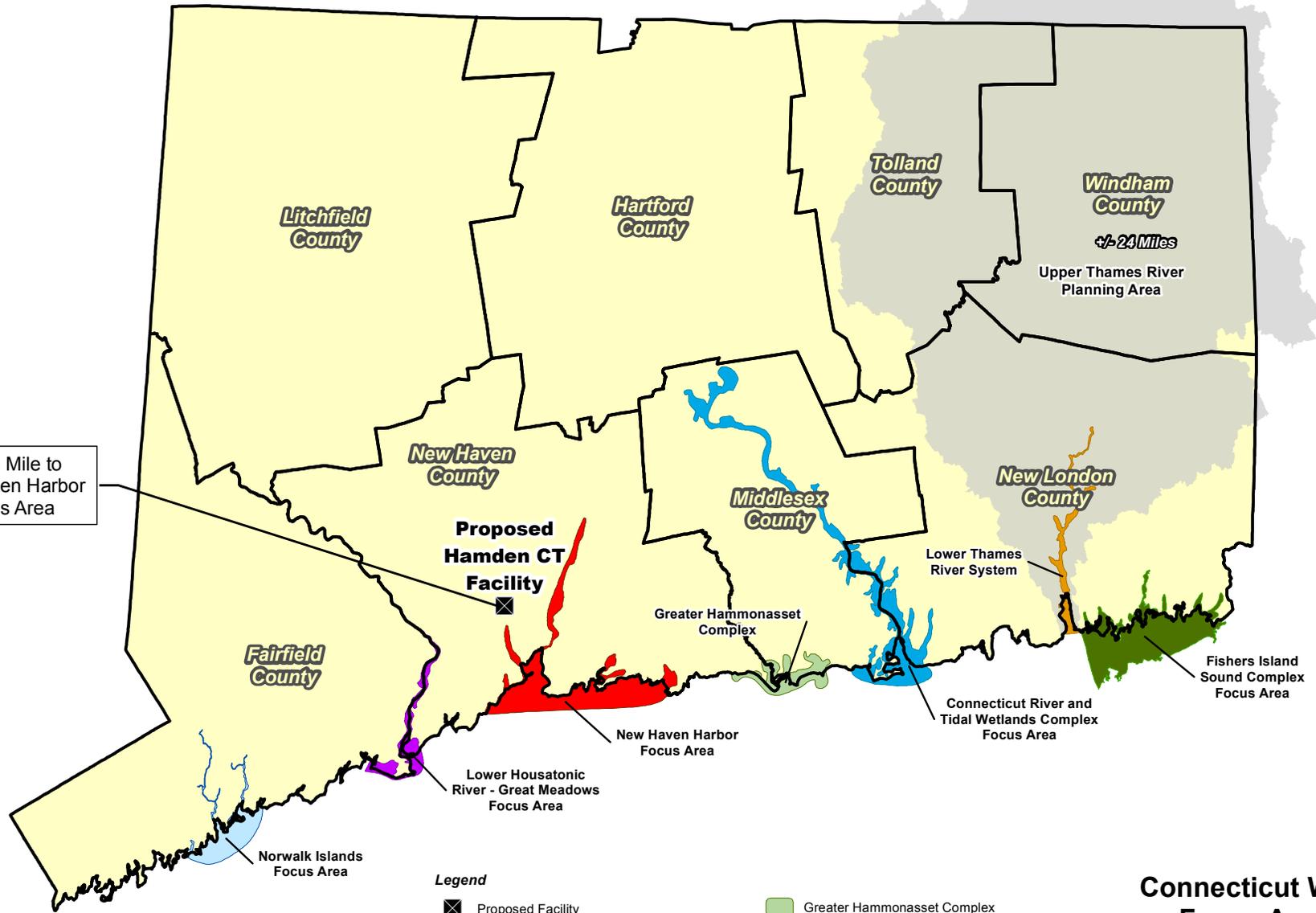
Avian Source Information:
 Bald Eagle Sites: U.S. Geological Survey, National Biological Information
 Infrast. 2008, Midwinter Bald Eagle Counts, 1986-2005 (update 2008).
 Hawk Watch Sites: Hawk Migration Association of North America
 (HMANA). Hawk Count website: <http://hawkcount.org/sitesel.php?country=USA&stateprov=Connecticut>
 Migratory Waterfowl: CTDEEP GIS, 1999
 Important Bird Sites/Areas: National Audubon Society,
 Audubon Connecticut
http://ct.audubon.org/BirdSci_IBAs.html
 Breeding Bird Survey Routes: Patuxent Wildlife Research Center
 of the U.S. Geological Survey and the Canadian Wildlife Service's
 National Wildlife Research Centre
<http://www.nationalatlas.gov/mid/bbsrsl.html>

Base Map Source: 2012 aerial photograph (CTECO map service)

Map Date: June 2018



+/- 1.6 Mile to
New Haven Harbor
Focus Area



Legend

- ☒ Proposed Facility
- Waterfowl Planning Area**
- Upper Thames River
- Waterfowl Focus Areas**
- Connecticut River and Tidal Wetlands Complex
- Fishers Island Sound Complex
- Greater Hammonasset Complex
- Lower Housatonic River - Great Meadows
- Lower Thames River System
- New Haven Harbor
- Norwalk Islands

Connecticut Waterfowl Focus Areas Map

Proposed Wireless
Telecommunications Facility
Hamden CT
796 Woodin Street
Hamden, Connecticut





WETLAND INSPECTION

April 14, 2018

APT Project No.: CT445170

Revised June 13, 2018

Prepared For: Phoenix Partnership
110 Washington Avenue
North Haven, CT 81506473
Attn: Keith Coppins

Site Name: CT1225 Hamden 2

Site Address: 796 Woodin Street, Hamden, Connecticut

Date(s) of Investigation: 1/31/2018 & 5/9/18

Field Conditions: **Weather:** sunny, mid 20's on 1/31/18; sunny, low 70's on 5/9/18
Soil Moisture: moist

Wetland/Watercourse Delineation Methodology*:

- Connecticut Inland Wetlands and Watercourses
- Connecticut Tidal Wetlands
- Massachusetts Wetlands
- U.S. Army Corps of Engineers

Municipal Upland Review Area/Buffer Zone:

Wetlands & Watercourses: 200 feet ; 100 feet non-disturbance zone

The wetlands inspection was performed by[†]:

Matthew Gustafson, Registered Soil Scientist

Enclosures: Wetland Delineation Field Forms & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.[‡] If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

* Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

† All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

‡ APT has relied upon the accuracy of information provided by Phoenix Partnership and its contractors regarding proposed lease area and access road/utility easement locations for identifying wetlands and watercourses within the study area.

Attachments

- Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

Wetland I.D.:	Wetland 1	
Flag #'s:	WF 1-01 to 1-70; 1-100 to 1-120 and 1-150 to 1-155	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Wetland 1 is a large seep wetland system with intermittent watercourses along the southwest and northeast boundaries of the subject property.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments:		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Western and southern extents of the subject property are dominated by mature forest with edges of scrub/shrub and emergent habitats along the central peripheries of the forested habitat as a result of clearing activities performed by the owner and creation of a horse paddock/barn.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: A watercourse, consisting of a deeply incised, sinuous system with steep banks and sandy/cobble bottom, is located along the western extents of the subject property running north to south. A second intermittent watercourse, consisting of a narrow/shallow bank with a mud bottom, starts as seep outbreak at the northeastern extents of the subject property.		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	American Elm (<i>Ulmus americana</i>)
Black Birch (<i>Betula lenta</i>)	Spicebush (<i>Lindera benzoin</i>)
Fox Grape (<i>Vitis labrusca</i>)	Green Ash (<i>Fraxinus pennsylvanica</i>)
Poison Ivy (<i>Toxicodendron radicans</i>)	Soft Rush (<i>Juncus effuses</i>)

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. (“APT”) understands that Phoenix Partnership is proposing the construction of a telecommunications facility (“Facility”) in the southern end of the subject property. The subject property consists of a residential home, horse paddock/barns and mature forest. Wetlands occupy a significant portion of the subject property, primarily along the eastern property boundary. The Facility would consist of a 70-foot by 40-foot fenced compound area hosting a monopole telecommunications tower and associated ground equipment. Access to the facility would be garnered off Woodin Street to the north and generally follow along the western property boundary.

Wetland 1 consists of a large hillside seep wetland system with two interior watercourses. The wetland is dominated by mature forest with some edge scrub/shrub and emergent areas associated with historic clearing of the subject property. This wetland generally drains north to south and west to east with several small ‘finger’ seeps that extend from the core wetland area along the east property boundary. Runoff from Wilbur Cross Parkway is conveyed through a channel and into a culvert at wetland flags WF 1-150/1-155 that flows under the horse paddock area eventually discharging into the main section of Wetland 1. The northern portion of this wetland system has experienced varying degrees of disturbance associated with clearing, filling, cutting, and manure/vegetation piles associated with the subject property’s residential and agricultural activities.

As currently presented, the proposed access and Facility location would not appear to result in a direct impact to wetland resources. However, development activities would be located in close proximity to wetland areas. APT recommends that a wetland impact evaluation be performed of the proposed Facility and access location. APT will provide a wetland impact evaluation under separate cover upon receipt of project site plans that provide clearing, grading and drainage details associated with the proposed Facility and access locations in relation to nearby wetland resources.

Wetland Delineation Field Form

Wetland I.D.:	Wetland 2	
Flag #'s:	WF 2-01 to 2-09	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Wetland 2 is a small seep system that feeds Wetland 1 off property to the south.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments:		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	American Elm (<i>Ulmus americana</i>)
Japanese Barberry* (<i>Berberis thunbergii</i>)	Spicebush (<i>Lindera benzoin</i>)
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. ("APT") understands that Phoenix Partnership is proposing the construction of a telecommunications facility ("Facility") in the southern end of the subject property. The subject property consists of a residential home, horse paddock/barns and mature forest. Wetlands occupy a significant portion of the subject property, primarily along the eastern property boundary. The Facility would consist of a 70-foot by 40-foot fenced compound area hosting a monopole telecommunications tower and associated ground equipment. Access to the facility would be garnered off Woodin Street to the north and generally follow along the western property boundary.

Wetland 2 consists of a relatively small forested hillside seep wetland system that sheet flows to the south, eventually converging with Wetland 1 on the adjoining property. Wetland 2 is buffered from the proposed Facility and access areas by an intermittent stream channel section of Wetland 1.

As currently presented, the proposed access and Facility location would not appear to result in a direct impact to wetland resources. However, development activities would be located in close proximity to wetland areas. APT recommends that a wetland impact evaluation be performed of the proposed Facility and access location. APT will provide a wetland impact evaluation under separate cover upon receipt of project site plans that provide clearing, grading and drainage details associated with the proposed Facility and access locations in relation to nearby wetland resources.



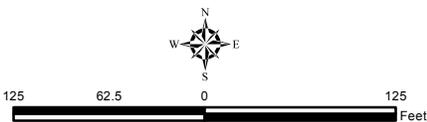
Legend

- Proposed Monopole Tower
- Proposed Site Layout
- Proposed Equipment
- ▲ Wetland Flag
- Approximate Wetland
- Delineated Wetland Boundary
- Intermittent Watercourse
- Existing Culvert (By Others)
- Existing Utility Pole (By Others)
- Subject Property
- Approximate Parcel Boundary (CTDEEP)

Wetland Inspection Map

Proposed Wireless Telecommunications Facility
 Hamden CT Relo
 796 Woodin Street
 Hamden, Connecticut

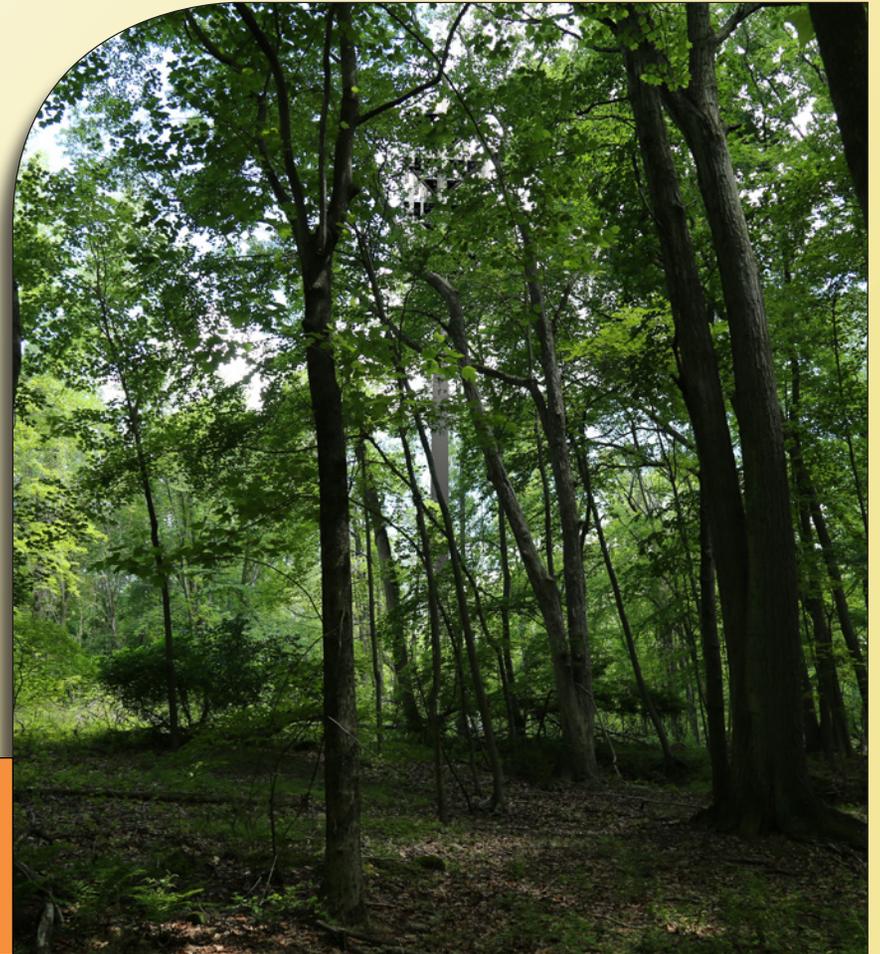
Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 125 feet
 Map Date: May 2018



Visual Assessment & Photo-Simulations

HAMDEN CT
796 WOODIN STREET
HAMDEN, CT 06514

Prepared in July 2018 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419



Project Introduction

Tarpon Towers is pursuing approval for the development of a new wireless communications facility ("Facility") at 796 Woodin Street in Hamden, Connecticut (the "Host Property"). At the request of Tarpon Towers, All-Points Technology Corporation, P.C. ("APT") prepared this Visibility Analysis to evaluate the potential visual impacts associated with the proposed Facility from within a two-mile radius (the "Study Area"). The Study Area also includes parts of the neighboring municipalities of Woodbridge and New Haven which are located in the western and southern portions of the Study Area, respectively.

Site Description and Setting

The Host Property consists of ± 6.75 acres of mostly-wooded land that is occupied by a residence and multiple outbuildings located in its northern portion. The proposed Facility would be located in the south central portion of the Host Property (the "Site"). See *Figure 1 – Site Location Map*.

The proposed Facility would include a ± 120 -foot tall monopole centrally located within an approximate 40-foot by 70-foot gravel base, fence-enclosed equipment compound. The Facility has been designed to accommodate up to four separate service providers. The base of the Facility would be constructed at an approximate elevation of 185 feet above mean sea level ("AMSL") and the highest antenna platform would be installed generally at the top of the monopole such that the panel antennas would extend to a height of approximately 124 feet above ground level ("AGL"). Access to the Site would be gained from Woodin Street initially via the existing driveway and subsequently over a new, 12-foot wide gravel base road. The proposed Facility components and their locations are illustrated in *Figure 2 – Proposed Equipment Location Plan* and *Figure 3 – Proposed Equipment Elevation Plan*.



Legend

-  Site
-  Subject Property
-  Approximate Parcel Boundary (CTDEEP GIS)
-  Municipal Boundary

Map Notes:
 Base Map Source: CT ECO 2016 Imagery
 Map Scale: 1 inch = 300 feet
 Map Date: July 2018



Figure 1 - Site Location Map

Proposed Wireless
 Telecommunications Facility
 Hamden CT
 796 Woodin Street
 Hamden, Connecticut



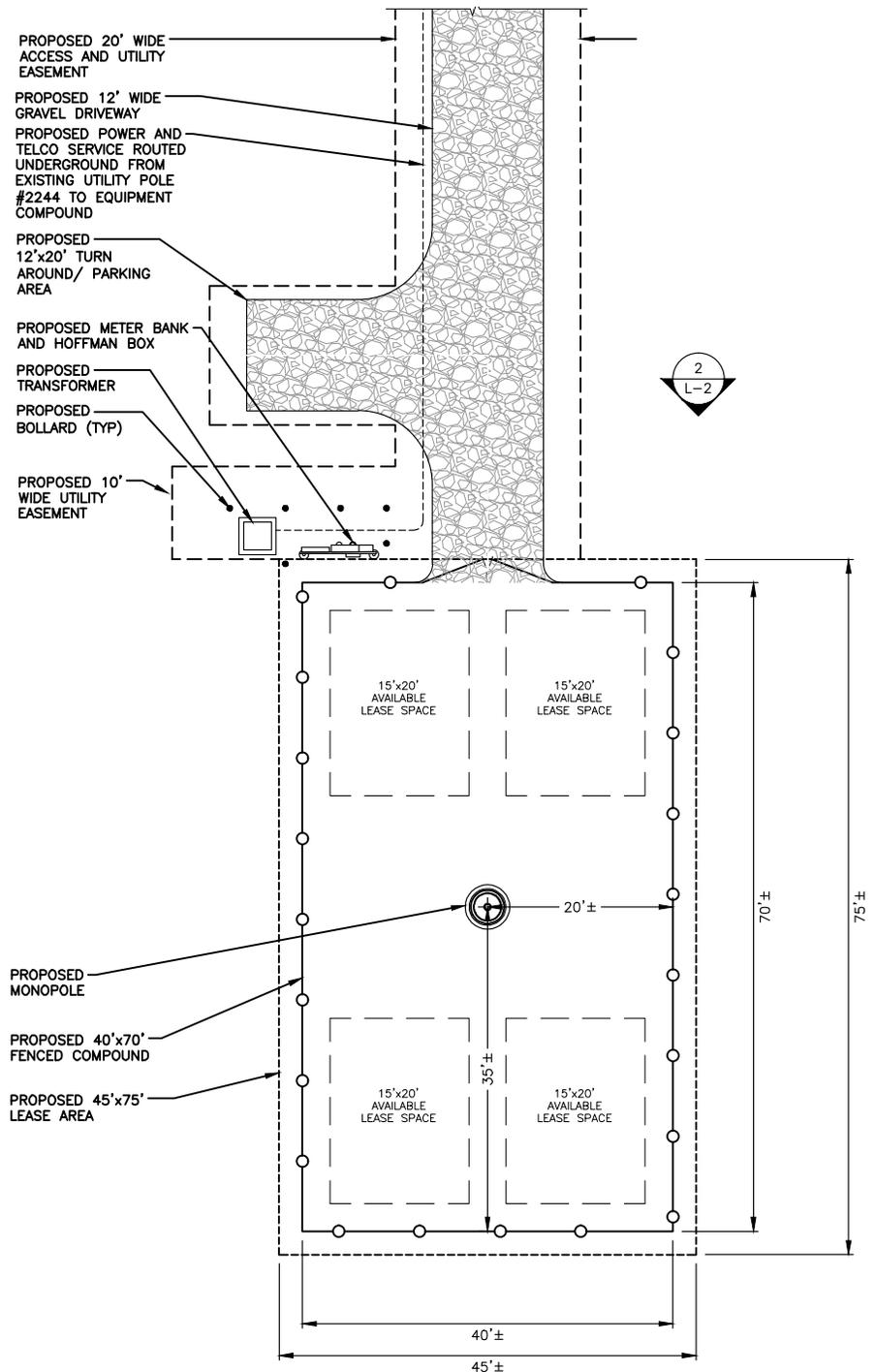


FIGURE 2 - PROPOSED EQUIPMENT LOCATION PLAN

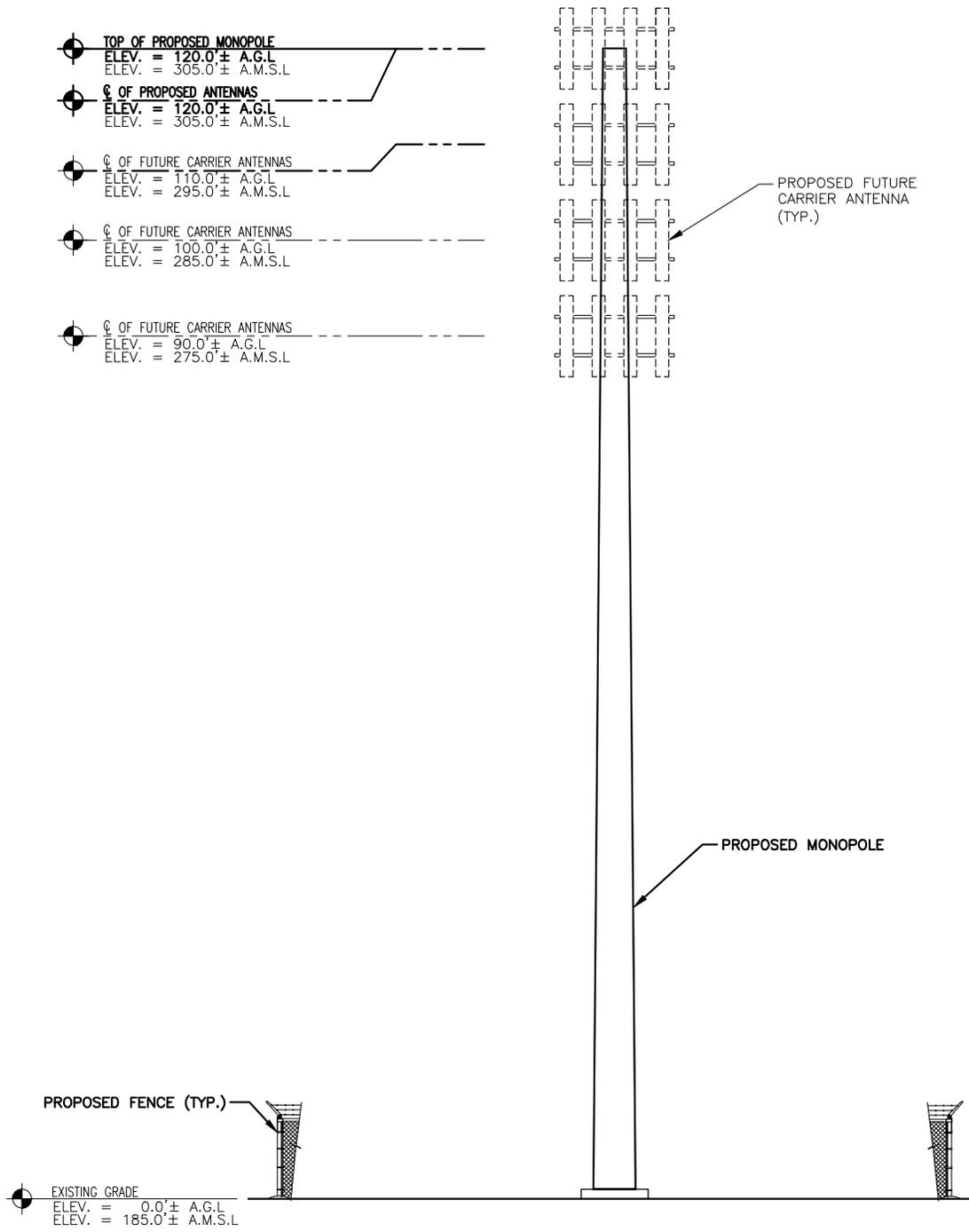


FIGURE 3 - PROPOSED EQUIPMENT ELEVATION PLAN

The Host Property is located south of Woodin Street and abutted by the Wilbur Cross Parkway to the north and west. Land use within the immediate vicinity of the Site is a mix of forested land, residential development and the Route 15 (Wilbur Cross Highway) transportation corridor. Single-family residentially-developed properties and an apartment/condominium complex are located east/northeast and southeast of the Host Property. Wooded land owned by the City of New Haven Nature Center abuts the Host Property to the south. West Rock Ridge State Park and the Wilbur Cross Parkway's West Rock tunnel are located southwest of the Host Property.

The topography within the Study Area is characterized as generally level terrain to the east undulating with rolling to steep hills west of the Site. Ground elevations range from approximately 15 feet AMSL to 1000 feet AMSL. The tree cover within the Study Area (consisting primarily of mixed deciduous hardwoods with interspersed stands of conifers) occupies approximately 4,626 acres of the 8,042-acre Study Area ($\pm 58\%$).

Methodology

APT used the combination of a predictive computer model and in-field analysis to evaluate the visibility associated with the proposed Facility on both a quantitative and qualitative basis. The predictive model provides a measurable assessment of potential visibility throughout the entire Study Area including private properties and other areas inaccessible for direct observations. The in-field analyses included a balloon float and field reconnaissance of the Study Area to record existing conditions, verify results of the model, inventory seasonal and year-round view locations, and provide photographic documentation from publicly accessible areas. A description of the procedures used in the analysis is provided below.

Preliminary Computer Modeling

To conduct this assessment, a predictive computer model was developed specifically for this project using TerrSet, an image analysis program developed by Clark Labs at Clark University, to provide an estimation of potential visibility throughout the Study Area. The predictive model incorporates Project and Study Area-specific data, including the site location, its ground elevation and the proposed Facility height, as well as the surrounding topography, existing vegetation, and structures (which are the primary features that can block direct lines of sight).

Information used in the model included lidar¹-based digital elevation data and customized land use data layers developed specifically for this analysis. Lidar is a remote-sensing technology that develops elevation data in meters 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." The system is also designed to capture many more data points than older radar-based systems. Thus, the lidar-based digital elevation model ("DEM") has a much finer resolution and can also identify the different features of the landscape at the time that it was captured.

¹ Lidar (a word invented to mean "light radar") may also be referred to as LiDAR, an acronym for Light Detection and Ranging. It is a technology that utilized lasers to determine the distance to an object or surface. LiDAR is similar to radar but incorporates laser pulses rather than sound waves. It measures the time delay between transmission and reflection of the laser pulse.

Viewshed analysis using lidar data provide a much more detailed view of the potential obstacles (especially trees and buildings), and therefore the viewshed modeling produces results with many smaller areas of visibility than those produced by using radar-based DEMs. The viewshed results are also checked against the most current aerial photographs in case significant changes (a new housing development, for example) have occurred since the time the lidar data was captured.

The lidar-based DEM created for this analysis represents topographic information for the state of Connecticut that was derived through the spatial interpolation of airborne LiDAR-based data collected in 2016 with a sub-meter horizontal resolution. In addition, multiple land use data layers were created from the Natural Resources Conservation Service (through the USDA) aerial photography (flown in 2016) using the image processing tools. TerrSet develops light reflective classes defined by statistical analysis of individual pixels, which are then grouped based on common reflective values such that distinctions can be made automatically between deciduous and coniferous tree species, as well as grassland, impervious surface areas, surface water and other distinct land use features.

With these data inputs, the model is then queried to determine where the top of the Facility can be seen from any point(s) within the Study Area, given the intervening existing topography and vegetation. 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. The Facility however may not necessarily be visible from all locations within those areas identified by the predictive model.

It is important to note that the computer model cannot account for mass density, the height, diameter and branching variability of the trees, or the degradation of views that occur with distance. In addition, each point (or pixel) represents about one square meter in area, and thus is not predicting visibility from all viewpoints through all possible obstacles. Although large portions of the predicted viewshed may theoretically offer

visibility of the Facility, because of these unavoidable limitations the quality of those views may not be sufficient for the human eye to recognize the tower or discriminate it from other surrounding objects.

Visibility also varies seasonally with increased, albeit obstructed, views occurring during "leaf-off" conditions. Beyond the density of woodlands found within the given Study Area, each individual tree has its own unique trunk, pole timber and branching pattern characteristics that provide varying degrees of screening in leafless conditions which cannot be precisely modeled.

Once the data layers were entered, image processing tools were applied and overlaid onto USGS topographic base maps and aerial photographs to achieve an estimate of locations where the Facility might be visible.

Balloon Float and Field Reconnaissance

To supplement and fine tune the results of the computer modeling efforts, APT completed in-field verification activities consisting of a balloon float, vehicular and pedestrian reconnaissance, and photo-documentation.

A balloon float and field reconnaissance were conducted on June 21, 2018 to evaluate the visibility associated with the proposed Facility and to obtain photographs for use in this report. The balloon float consisted of raising a brightly colored, approximately four-foot diameter, helium-filled balloon tethered to a string height of ± 120 feet AGL² at the Site. Weather conditions were favorable for the in-field activities, with calm winds (4 mph and below) and mostly sunny skies. Once the balloons were secured, APT conducted a Study Area reconnaissance by driving along the local and State roads and other publicly accessible locations to document and inventory where the balloons could be seen

² The bottom of the balloon represented the top of monopole and the top of balloon represented the top of antennas.

above/through the tree canopy. Visual observations from the reconnaissance were also used to evaluate the results of the preliminary visibility mapping and identify any discrepancies in the initial modeling.

Photographic Documentation

APT drove the public roads within the Study Area and photo-documented representative areas where the balloon was visible. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens. APT used a focal length of 50mm at all but one of the photo locations to provide a consistent field of view to the extent possible. A 24mm focal length was used at photo location 18 to provide a greater depth of field and context to the scene by including surrounding features within the photograph.

Photograph Locations

The table on the following page summarizes the photographs and simulations for each field reconnaissance date presented in the attachment to this report including a description of each location, view orientation, the distance from where the photo was taken relative to the proposed Facility and the general characteristics of that view. The photo locations are depicted on the photolog and viewshed maps provided as attachments to this report.

View	Location	Orientation	Distance to Site	View Characteristics
1	Carbonella Drive	Northeast	±0.25 Mile	Not Visible
2	Wintergreen Avenue	Southeast	±0.25 Mils	Visible
3	Woodin Street	Southwest	±0.14 Mile	Visible
4	Woodin Street	Southwest	±0.18 Mile	Not Visible
5	Perry Road	South	±0.36 Mile	Not Visible
6	Perry Road	Southwest	±0.47 Mile	Not Visible
7	Main Street	Southeast	±0.29 Mile	Not Visible
8	Orchard Heights Drive	Southwest	±0.93 Mile	Not Visible
9	Wintergreen Avenue	Southwest	±0.91 Mile	Not Visible
10	Reyna Road	Southwest	±0.91 Mile	Not Visible
11	Helen Street	West	±1.06 Miles	Not Visible
12	Fairview Avenue	Northwest	±1.26 Miles	Not Visible
13	Fitch Street (SCSU Parking Garage)	Northwest	±1.40 Miles	Not Visible
14	West Rock Ridge State Park	Northeast	±0.79 Mile	Not Visible
15	Brookside Avenue	Northwest	±0.57 Mile	Not Visible
16	Wilmot Road	Northwest	±0.27 Mile	Visible
17	Fawn Ridge Drive	West	±0.21 Mile	Not Visible
18	West Rock Nature Center Park*	North	± 162 Feet	Visible
19	West Rock Nature Center Park	Northwest	± 330 Feet	Not Visible
20	West Rock Nature Center Park	Northwest	± 444 Feet	Not Visible
21	West Rock Nature Center Park	Northwest	±0.14 Mile	Not Visible
22	West Rock Nature Center Park	Northeast	±0.14 Mile	Not Visible
23	West Rock Nature Center Park	Northeast	±0.17 Mile	Not Visible
24	West Rock Nature Center Park	Northeast	±0.22 Mile	Not Visible
25	West Rock Ridge State Park	Northeast	±0.39 Mile	Not Visible
26	West Rock Ridge State Park	Northeast	±0.44 Mile	Not Visible
27	West Rock Ridge State Park	Northeast	±0.46 Mile	Not Visible

**Photograph taken with a 24mm focal length.*

Photographic Simulations

Photographic simulations were generated to portray scaled renderings of the proposed Facility from the four locations presented herein where the balloon could be viewed above or through the trees. Using field data, Site plan information and 3-dimension (3D) modeling software, spatially referenced models of the Site and Facility were generated and merged. The geographic coordinates obtained in the field for the photograph locations were incorporated into the model to produce virtual camera positions within the spatial 3D model. Photo simulations were then created using a combination of renderings generated in the 3D model and photo-rendering software programs. The scale of the subjects in the photograph (the balloon) and its corresponding simulation (the tower) are proportional to their surroundings.

For presentation purposes in this report, the photographs were produced in an approximate 7-inch by 10.5-inch format. When reproducing the images in this format size, we believe it is important to present the largest view while providing key contextual landscape elements (existing development, street signs, utility poles, etc.) so that the viewer can determine the proportionate scale of each object within the scene.

Photo-documentation of the field reconnaissance and photo-simulations of the proposed Facility are presented in the attachment at the end of this report. The field reconnaissance photos that include the balloon in the view provide visual reference points for the approximate height and location of the proposed Facility relative to the scene.

All simulations were created to represent the proposed Facility height of ± 120 feet AGL, with the top antennas extending up an additional ± 4 feet. The photo-simulations are intended to provide the reader with a general understanding of the different views that might be achieved of the Facility. Photographs were taken from publicly-accessible locations and were chosen to present unobstructed view lines (wherever possible). Due to the time of year, the photographs represent "leaf-on" conditions and may not be indicative of views then the leaves are off the deciduous trees.

Final Visibility Mapping

Information obtained during each field reconnaissance was incorporated into the mapping data layers, including observations of the field reconnaissance, the photo locations, areas that experienced recent land use changes and those places where the initial model was found to over or under-predict visibility. Once the additional data was integrated into the model, APT re-calculated the visibility of the proposed Facility from within the Study Area to assist in producing the final viewshed map.

Visibility Analysis Results

Results of this analysis are graphically displayed on the viewshed maps provided in the attachment to the end of this report. The maps also include the locations of photographs and corresponding simulations.

Areas from where the Facility would be visible comprise ±38 acres of year-round visibility and ±79 acres of seasonal visibility. Cumulatively, this equals approximately 1% of the Study Area.

As seen on the visibility maps, the year-round views beyond the Host Property would be limited to select locations within approximately 0.25 mile of the Site. Seasonally, when the leaves are off the deciduous trees, it is estimated that partially obstructed views could extend immediately beyond these areas. However, the combination of the relatively low tower height and presence of mature trees in the immediate area of the Host Property serves to minimize the extent of visibility.

Based on observations made during the field reconnaissance, it is evident that seasonal ("leaf-off") views from the northern portions of the adjacent West Rock Nature Center Park will allow increased lines of sight to the Facility, beyond what is represented here. Views to nearby residential properties should not increase substantially beyond the views depicted in the attachment. No views are anticipated from the trails at West Rock Ridge State Park.

Proximity to Schools And Commercial Child Day Care Centers

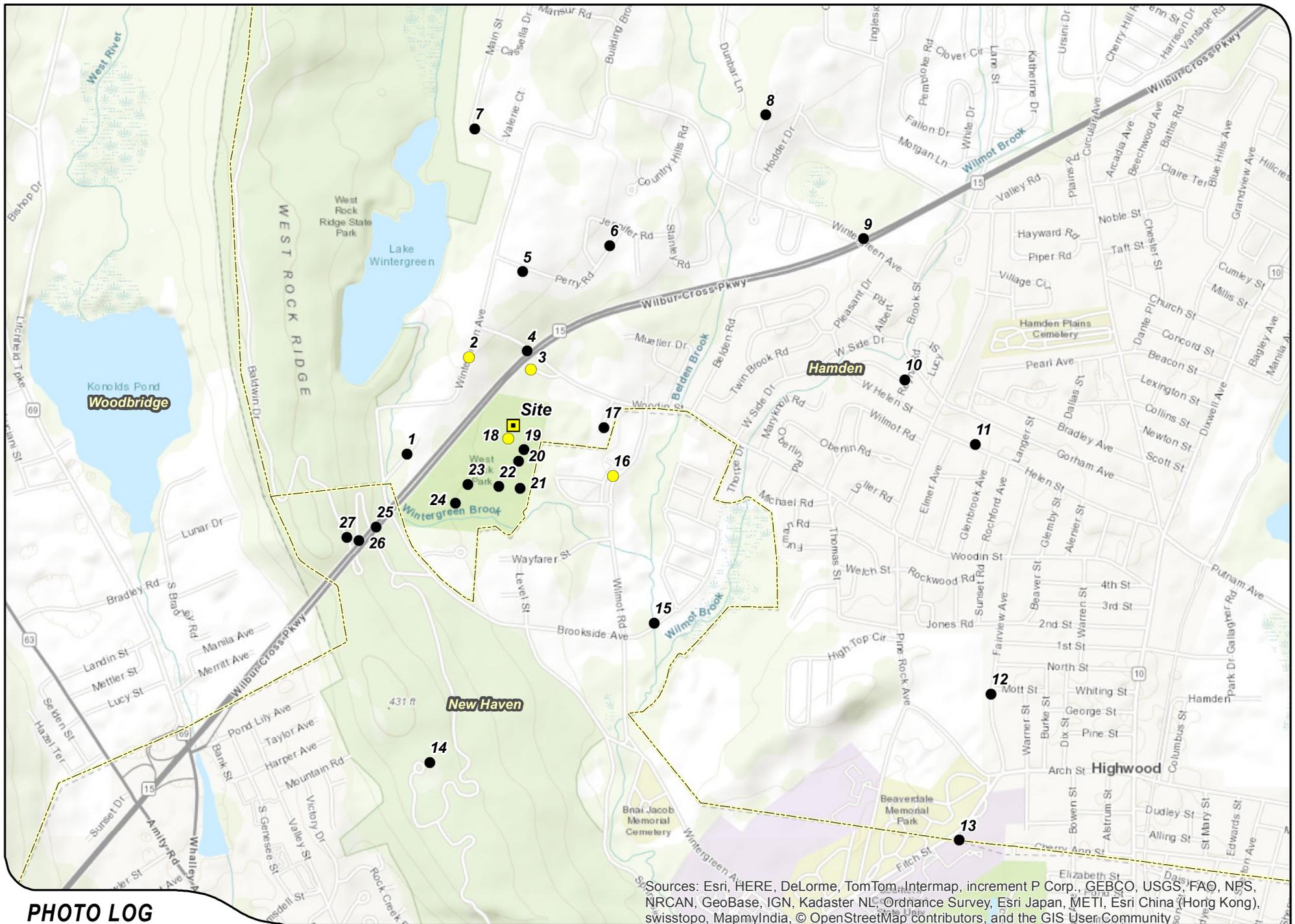
The nearest commercial child day care center is the Marguerite Kraus Daycare, located approximately 0.7 mile to the northwest at 196 Belden Road. The nearest school is the Clarence Rogers School, located nearly 0.5 mile to the south at 195 Wilmot Road in New Haven.

Limitations

The viewshed maps presented in the attachment to this report depict areas where the proposed Facility may potentially be visible to the human eye without the aid of magnification based on a viewer eye-height of 5 feet above the ground and intervening topography. This analysis may not necessarily account for all visible locations, as it is based on the combination of computer modeling, incorporating 2016 aerial photographs, and in-field observations from publicly-accessible locations. No access to private properties was provided to APT personnel. This analysis does not claim to depict the only areas, or all locations, where visibility may occur; it is intended to provide a representation of those areas where the Facility is likely to be seen.

The simulations provide a representation of the Facility under similar settings as those encountered during the balloon float and reconnaissance. Views can change throughout the seasons and the time of day and are dependent on weather and other atmospheric conditions (e.g., haze, fog, clouds); the location, angle and intensity of the sun; and the specific viewer location. Weather conditions on the day of the balloon float included mostly sunny skies.

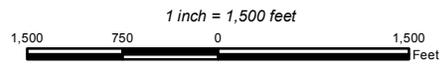
ATTACHMENTS



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

PHOTO LOG

- Legend
- Site
 - Year-Round
 - Not Visible
 - Municipal Boundary





PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

1

LOCATION

CARBONELLA DRIVE

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.25 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
2	WINTERGREEN AVENUE	SOUTHEAST	+/- 0.25 MILE	VISIBLE



PROPOSED

PHOTO

2

LOCATION

WINTERGREEN AVENUE

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 0.25 MILE

VISIBILITY

VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

3

LOCATION

WOODIN STREET ADJACENT TO HOST PROPERTY

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.14 MILE

VISIBILITY

VISIBLE



PROPOSED

PHOTO

3

LOCATION

WOODIN STREET ADJACENT TO HOST PROPERTY

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.14 MILE

VISIBILITY

VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

4

LOCATION

WOODIN STREET

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.18 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

5

LOCATION

PERRY ROAD

ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 0.36 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

6

LOCATION

PERRY ROAD

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.47 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

7

LOCATION

MAIN STREET

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 0.69 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

8

LOCATION

ORCHARD HEIGHTS DRIVE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.93 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

9

LOCATION

WINTERGREEN AVENUE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.91 MILE

VISIBILITY

NOT VISIBLE





PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

10

LOCATION

REYNA ROAD

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.91 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

11

LOCATION

HELEN STREET

ORIENTATION

WEST

DISTANCE TO SITE

+/- 1.06 MILES

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

12

LOCATION

FAIRVIEW AVENUE

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 1.26 MILES

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
13	FITCH STREET SOUTHERN CONNECTICUT STATE UNIVERSITY PARKING GARAGE (ROOFTOP)	NORTHWEST	+/- 1.40 MILES	NOT VISIBLE





PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

14

LOCATION

WEST ROCK RIDGE STATE PARK

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.79 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

15

LOCATION

BROOKSIDE AVENUE

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.57 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

16

LOCATION

WILMOT ROAD

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.27 MILE

VISIBILITY

VISIBLE



PROPOSED

PHOTO

16

LOCATION

WILMOT ROAD

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.27 MILE

VISIBILITY

VISIBLE



PHOTOGRAPHED ON 06/27/2018

EXISTING

PHOTO

17

LOCATION

FAWN RIDGE DRIVE

ORIENTATION

WEST

DISTANCE TO SITE

+/- 0.21 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
18	WEST ROCK NATURE CENTER PARK (24mm Focal Length)	NORTH	+/- 162 FEET	VISIBLE



PROPOSED

PHOTO

LOCATION

ORIENTATION

DISTANCE TO SITE

VISIBILITY

18

WEST ROCK NATURE CENTER PARK
(24mm Focal Length)

NORTH

+/- 162 FEET

VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

19

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 330 FEET

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

20

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 444 FEET

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

21

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.14 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

22

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.14 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

23

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.17 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

24

LOCATION

WEST ROCK NATURE CENTER PARK

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.22 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
25	WEST ROCK RIDGE STATE PARK	NORTHEAST	+/- 0.39 MILE	NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

26

LOCATION

WEST ROCK RIDGE STATE PARK

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.44 MILE

VISIBILITY

NOT VISIBLE



PHOTOGRAPHED ON 6/27/2018

EXISTING

PHOTO

27

LOCATION

WEST ROCK RIDGE STATE PARK

ORIENTATION

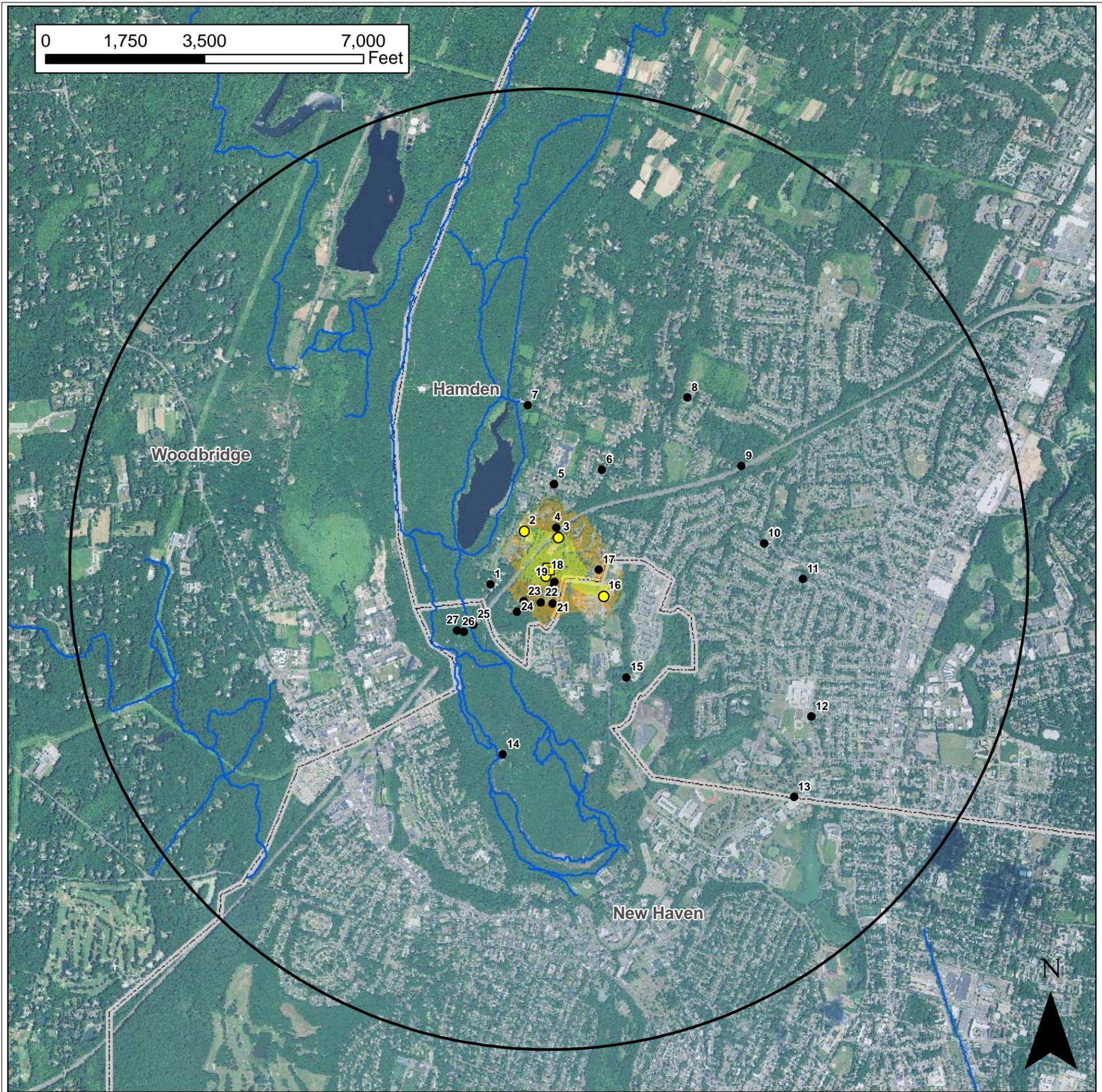
NORTHEAST

DISTANCE TO SITE

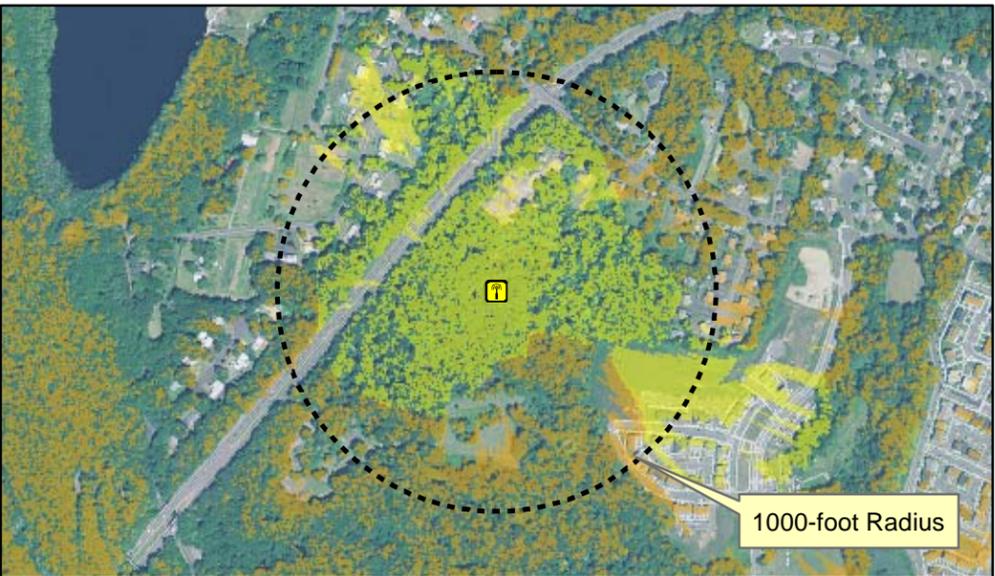
+/- 0.46 MILE

VISIBILITY

NOT VISIBLE



0 1,750 3,500 7,000 Feet



1000-foot Radius

Viewshed Map – Aerial Base

Proposed Wireless Telecommunications Facility
796 Woodin Street, Hamden, CT

Proposed facility height is 120 feet AGL.
Forest canopy height is derived from lidar data.
Study area encompasses a two-mile radius and
includes 8,042 acres of land.

Map compiled 07/16/2018

Map information field verified by APT on 06/21/2018.

Only those resources located within the extent of the map are depicted. For a complete list of data sources consulted for this analysis, please refer to the Documentation Page.

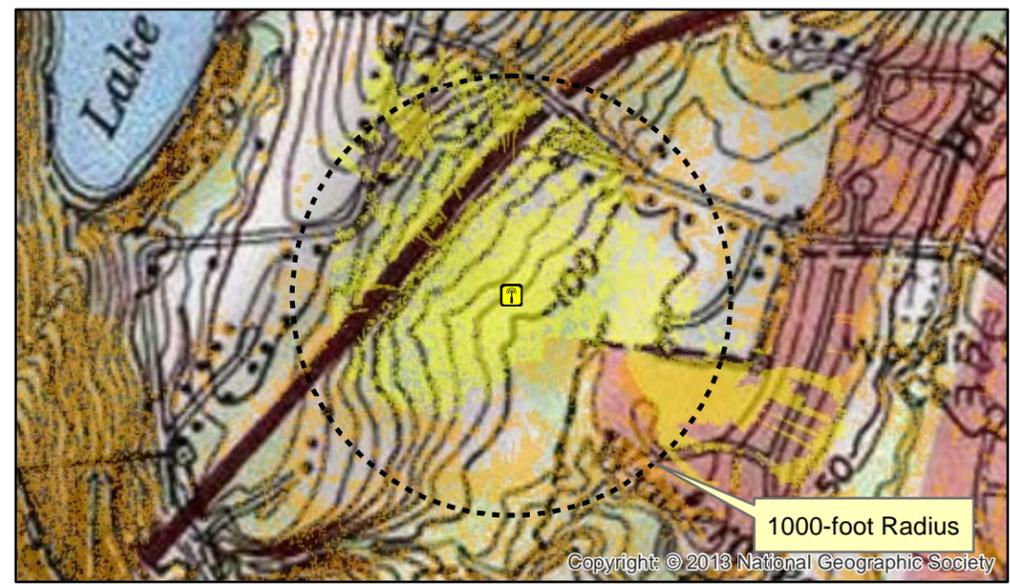
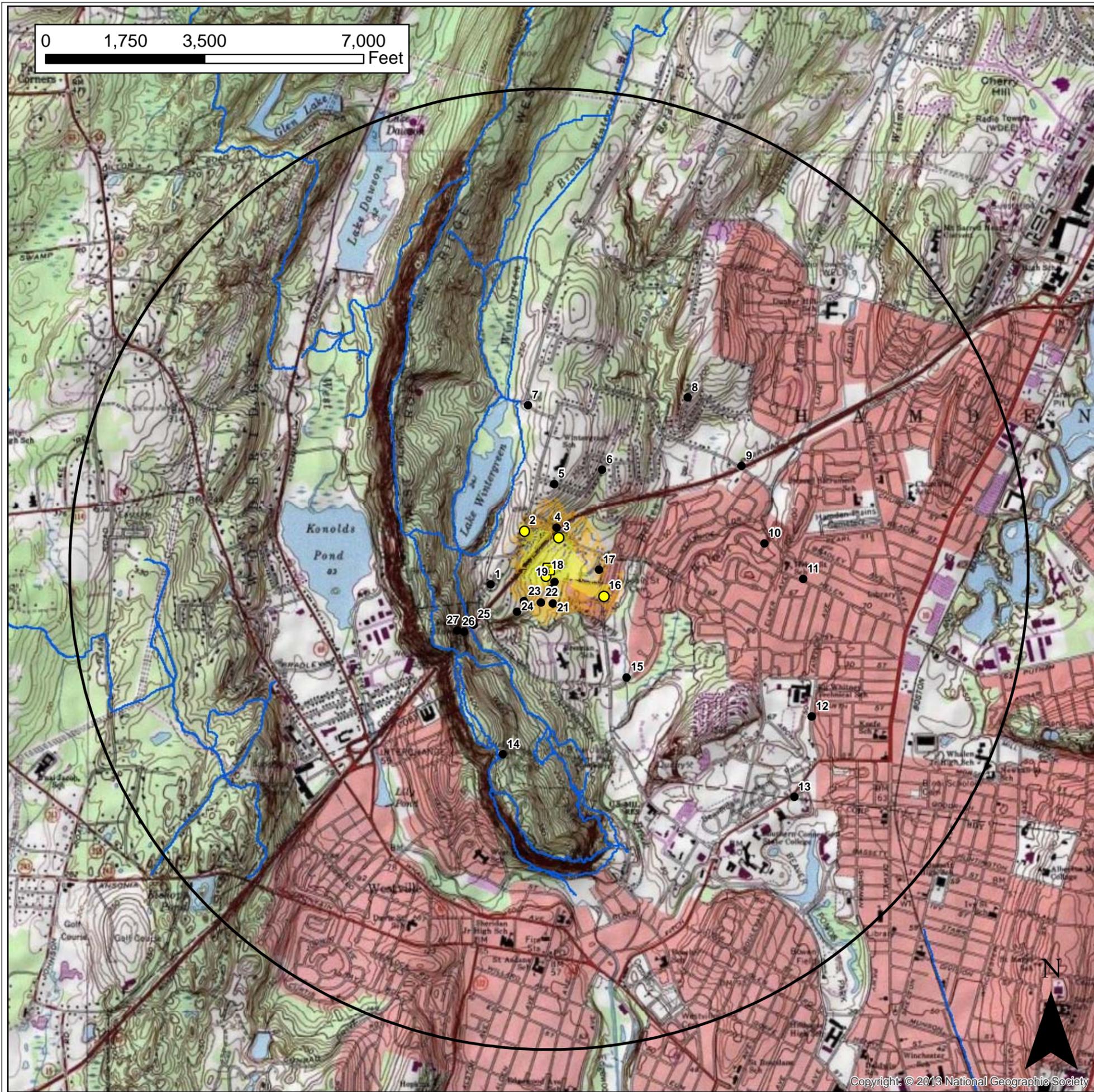
Legend

-  Proposed Tower
- Photo Locations**
-  Not Visible
-  Visible
-  Predicted Seasonal Visibility (79 Acres)
-  Predicted Year-Round Visibility (38 Acres)
-  Towns
-  2-Mile Study Area
-  Trails and Bike Paths



Location





Viewshed Map – Topo Base
 Proposed Wireless Telecommunications Facility
 796 Woodin Street, Hamden, CT

Proposed facility height is 120 feet AGL.
 Forest canopy height is derived from lidar data.
 Study area encompasses a two-mile radius and
 includes 8,042 acres of land.

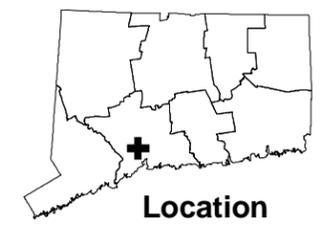
Map compiled 07/16/2018

Map information field verified by APT on 06/21/2018.

Only those resources located within the extent of the map are depicted. For a complete list of data sources consulted for this analysis, please refer to the Documentation Page.

Legend

-  Proposed Tower
- Photo Locations**
-  Not Visible
-  Visible
-  Predicted Seasonal Visibility (79 Acres)
-  Predicted Year-Round Visibility (38 Acres)
-  Towns
-  2-Mile Study Area
-  Trails and Bike Paths



NEPA COMPLIANCE REVIEW

**796 Woodin Street
Hamden, New Haven County, CT 06514**

September 28, 2018



Prepared for:

**Tarpon Towers II, LLC
c/o Phoenix Partnership, LLC
796 Woodin Street
Hamden, CT 06514**

Prepared by:

**All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419**

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Attachments

NEPA Review Summary

Site Name:	Hamden CT	
Site Type:	Construction of a new 120' tall monopole communications tower within a 40' x 70' fenced-in equipment compound.	
Site Address:	796 Woodin Street, Hamden, New Haven County, CT 06514	
Latitude / Longitude (NAD83):	N 41° 20' 59.2" / W 72° 57' 45.3"	
TCNS Number:	173347	
<i>FCC NEPA Category</i>	<i>Source</i>	<i>Findings</i>
Designated Wilderness Areas	National Park Service, US Forest Service, Bureau of Land Management (BLM)	No Effect
Designated Wildlife Preserve	National Park Service, US Forest Service, BLM	No Effect
Threatened or Endangered Species or Designated Critical Habitats	US Fish & Wildlife Service and Connecticut Department of Energy & Environmental Protection (CTDEEP) Natural Diversity Database (NDDDB)	No Effect
Archeological and Historic Resources	State Historic Preservation Office (SHPO) file review and consultation, archaeological assessment, public notices and Local Government involvement	No Effect
Indian Religious Site	Indian Reservations in the Continental United States, Bureau of Indian Affairs Map, and consultation with federally recognized tribes via FCC's Tower Construction Notification System (TCNS)	No Effect
100-year Floodplain	Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM)	No Effect
Wetlands & Surface Waterways Features	Site Wetland Investigation, Natural Resources Conservation Service (NRCS) Soil Survey and USFWS National Wetland Inventory (NWI) mapping	No Effect
High Intensity White Lights in Residential Neighborhood	TOWAIR Determination	No Effect
Environmental Assessment (EA)	Findings for the above FCC NEPA Categories and sources	No

1.0 INTRODUCTION

1.1 PURPOSE

As a licensing agency, the Federal Communications Commission (FCC) complies with the National Environmental Policy Act (NEPA) by requiring its licensees to review their proposed actions for environmental consequences. The FCC rules for implementing NEPA are found in Title 47 of the Code of Federal Regulations (CFR), Part 1, Subpart I, rule sections 1.1301 to 1.1319. If a licensee's proposed action falls within one of the categories of rule sections 1.1301 to 1.1319, the licensee is required to consider the potential environmental effects from its construction of antenna facilities or structures, and disclose those effects in an environmental assessment (EA) which is filed with the Commission for review.

Additionally, Section 106 of the National Historic Preservation Act of 1966 requires licensees to assess the effect of their proposed action on historic properties as outlined in regulations issued by the Advisory Council on Historic Properties at 36 CFR Part 800, as well as the Nationwide Programmatic Agreement (NPA) for the Collocation of Wireless Antennas (47 CFR Part 1, See Attachments) and the NPA Regarding the Section 106 National Historic Preservation Act Review Process (47 CFR Part 1, See Attachments).

1.2 SCOPE OF WORK

At the request of Phoenix Partnership, LLC, and on behalf of Tarpon Towers II, LLC, All-Points Technology Corporation, P.C. (APT) has completed its review of environmental resource information outlined in 47 CFR Part 1, Subpart I, rule sections 1.1301 to 1.1319. The review includes the evaluation of the wireless telecommunication facility project impacts to the FCC NEPA categories outlined in this report using the sources referenced herein. Impacts from radiofrequency radiation are evaluated by the tower owner and/or applicant and are not part of this scope of work.

If the project undertaking results in an adverse effect finding under any of the FCC NEPA categories reviewed, those effects must be disclosed in the form on an EA and filed with the FCC for further review of potential environmental impacts.

This NEPA report documents the reviews completed to date. The term "Site" will be used herein to reference the location of the proposed undertaking.

2.0 SITE LOCATION AND PROJECT DESCRIPTION

2.1 SITE LOCATION

The Site, located at 796 Woodin Street in Hamden, Connecticut, is situated south side of Woodin Street and abutting the Wilbur Cross Parkway (CT Route 15) to the west. The parcel is the site of a single-family residence with attached garage – these built ca. 1940 and ca. 1980, respectively – that stand immediately south of an informal street identified as Old Woodin Street, which branches off Woodin Street and runs some 500' west before terminating roughly in front of the parcel. A root cellar structure made of earth and concrete is located 50' east of the house, while several modern outbuildings (a mix of sheds and horse barns) are scattered a short distance south of the residence. A moderately-sized lawn surrounds the house, while fenced horse paddocks are located roughly 150' south of the residence.

The Site is located roughly 500' north of Wintergreen Brook, 2000' west of Belden Brook, and 2000' southeast of Lake Wintergreen. The Wilbur Cross Parkway passes through the Heroes Tunnel (completed 1948), a feature that allows the parkway to pass through a steep ridgeline known as West Rock Ridge, roughly 2,500' to the southwest. The Site vicinity remained largely wooded or agricultural as late as the 1930s, however, by the early 1950s a degree of suburban development was taking place to the east, while the Wilbur Cross Parkway had been laid out to the north and west. Further residential development took place to the north, west, and south by the mid-1960s.

A USGS Site Location Map and Site Plans are presented in the Attachments section.

2.2 PROJECT DESCRIPTION – PROPOSED UNDERTAKING

Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC, is proposing to construct a telecommunications facility consisting of a 120'-tall monopole with antennas situated within a 40' x 70' fenced (chain link) equipment compound to be located roughly 850' south of the residence. A 20'-wide access and utility easement originating off Woodin Street would follow the existing driveway to a point immediately west of the attached garage. It would then continue to the southwest along the parcel's western boundary before swinging to the southeast and terminating at the proposed tower location. A 12'-wide gravel access drive would be constructed west of the garage to the compound. The antennas affixed to the top of the monopole will consist of panel antennas, these mounted in three sectors at a maximum height of 124'.

Site Plans provided by Tarpon Towers II, LLC are included in the Attachments section.

3.0 FCC NEPA REVIEW CATEGORIES

3.1 DESIGNATED WILDERNESS AREAS

Will the facility be located in an officially designated wilderness area? **No**

The proposed facility is not located in an officially designated wilderness area.

Source: Review of Wilderness Areas of the United States mapping, <http://www.wilderness.net/index.cfm?fuse=NWPS> (See Attachments).

3.2 DESIGNATED WILDLIFE PRESERVES

Will the facility be located in an officially designated wildlife preserve? **No**

The proposed facility is not located in an officially designated wildlife preserve.

Source: Review of U.S. Fish & Wildlife Service National Wildlife Refuge System Map, www.wilderness.net (See Attachments).

3.3 THREATENED OR ENDANGERED SPECIES OR DESIGNATED CRITICAL HABITATS

Will the facility affect listed or proposed threatened or endangered species or designated critical habitats? **No**

One federally-listed¹ threatened species is documented in the Site vicinity: the northern long-eared bat ("NLEB"; *Myotis septentrionalis*). Northern long-eared bat's range encompasses the entire State of Connecticut. As a result of this preliminary finding, APT performed an evaluation to determine if the proposed undertaking would result in a likely adverse effect to NLEB.

The proposed communications tower would be located on a residentially-developed parcel within an upland forested area that will require some tree clearing. The project is not located near known NLEB hibernacula or maternity roost trees. Consultation with the Connecticut Department of Energy & Environmental Protection ("CTDEEP") Wildlife Division Natural Diversity Data Base ("NDDB") revealed that the proposed facility is not within 150 feet of a known occupied maternity roost tree and is not within 0.25 mile of a known NLEB hibernaculum. The nearest NLEB habitat resource to the proposed activity is located in North Branford ±5 miles to the east. Therefore, the proposed undertaking is not likely to adversely affect NLEB.

¹ Listing under the federal Endangered Species Act

Based on our consultation with the CTDEEP's NDDDB, no additional federally-listed threatened or endangered or state listed threatened, endangered, or special concerned species are known to occur in the Site vicinity (See Attachments).

Based on the information provided, the proposed undertaking is not likely to adversely affect any potential threatened or endangered species or designated critical habitats.

Source: Review of publicly available data and consultations with the USFWS and CTDEEP NDDDB (See Attachments).

3.4 ***ARCHAEOLOGICAL AND HISTORIC RESOURCES***

Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed, or are eligible for listing, in the National Register of Historic Places? **No**

In a letter dated July 26, 2018, the CTSHPO determined that the proposed undertaking will have no adverse effect to sites listed on or eligible for listing on the National Register of Historic Places, subject to the following conditions:

1. The antennas and associated equipment will be designed, painted to match adjacent materials, and installed to be as non-visible as possible, and
2. If not in use for six consecutive months, antennas, and all other equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period.

Source: Review of SHPO files, archaeological assessment, public involvement, and Local Government and SHPO consultation (See Attachments).

3.5 ***INDIAN RELIGIOUS SITES***

Will the facility affect Indian religious sites? **No**

The Site is not located on an American Indian federal reservation trust land. It was determined through tribal consultation via FCC's Tower Construction Notification System (TCNS) that the proposed undertaking is unlikely to affect Indian religious sites.

In the unlikely event that tribal artifacts or human remains are/were encountered during construction activities, excavation the appropriate SHPO, tribes, and other consulting parties are to be contacted.

Source: Indian Reservations in the Continental United States, Bureau of Indian Affairs Map, archeological assessment, and consultation with federally recognized tribes using the FCC TCNS (See Attachments).

3.6 ***FLOODPLAINS***

Will the facility be located in a 100-year floodplain? **No**

The Site is located outside of a 100-year flood hazard as identified on the FIRM map for the proposed Site area.

Source: Site observations and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Panel 09009C0427H, effective December 17, 2010 (See Attachments).

3.7 ***WETLANDS & SURFACE WATERWAYS FEATURES***

Will construction of the facility involve a significant change in surface features (e.g. wetland fill, water diversion, or deforestation)? **No**

The proposed access and facility location would not appear to result in a direct impact to wetland resources. However, development activities would be located in close proximity to wetland areas.

Source: U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle (See Attachments), Natural Resources Conservation Service (NRCS) Soil Survey, CTDEEP's data library (<http://www.ct.gov/deep>) of state wetland mapping, and Wetland Desktop Review report completed by APT (See Attachments).

3.8 ***HIGH INTENSITY WHITE LIGHTS IN RESIDENTIAL NEIGHBORHOOD***

Will the facility be equipped with high intensity white lights which are to be located in residential neighborhoods?

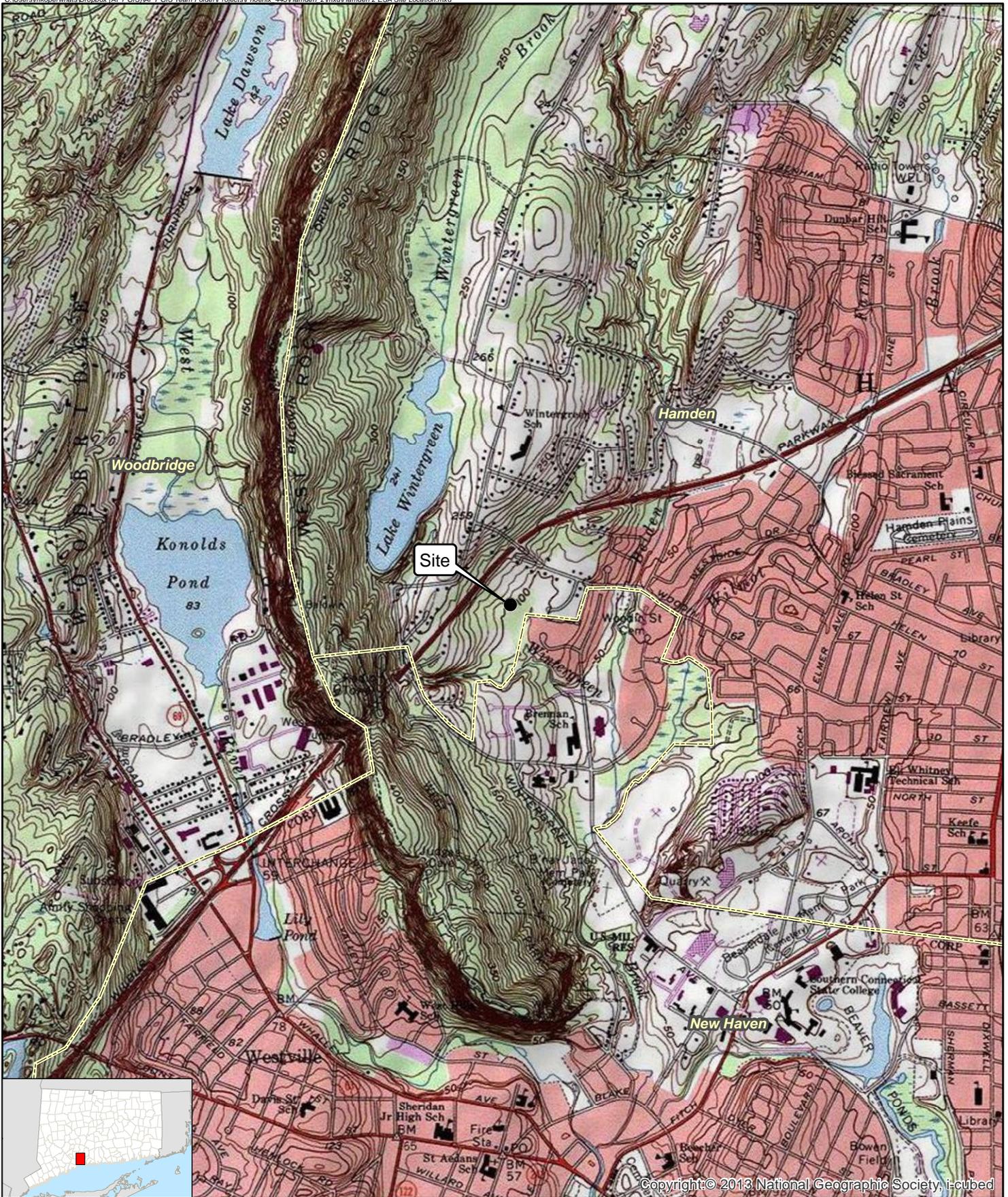
No lighting is required for the proposed tower.

Source: TOWAIR Determination 9/17/18 (See Attachments).

4.0 ***CONCLUSIONS***

APT completed this NEPA Review in conformance with the FCC rules and regulations for implementing NEPA; 47 CFR 1.1301 to 1.1319. Based on the information obtained as part of this Review, the proposed undertaking does not require preparation and filing of an EA.

Attachments



Copyright © 2013 National Geographic Society, i-cubed

Legend

- Site
- Municipal Boundary

Site Location Map

Proposed Wireless
Telecommunications Facility
Hamden CT Relo
796 Woodin Street
Hamden, Connecticut

Map Notes:
Base Map Source: USGS 7.5 Minute Topographic
Quadrangle Map, New Haven, CT (1984)
Map Scale: 1:24,000
Map Date: January 2018



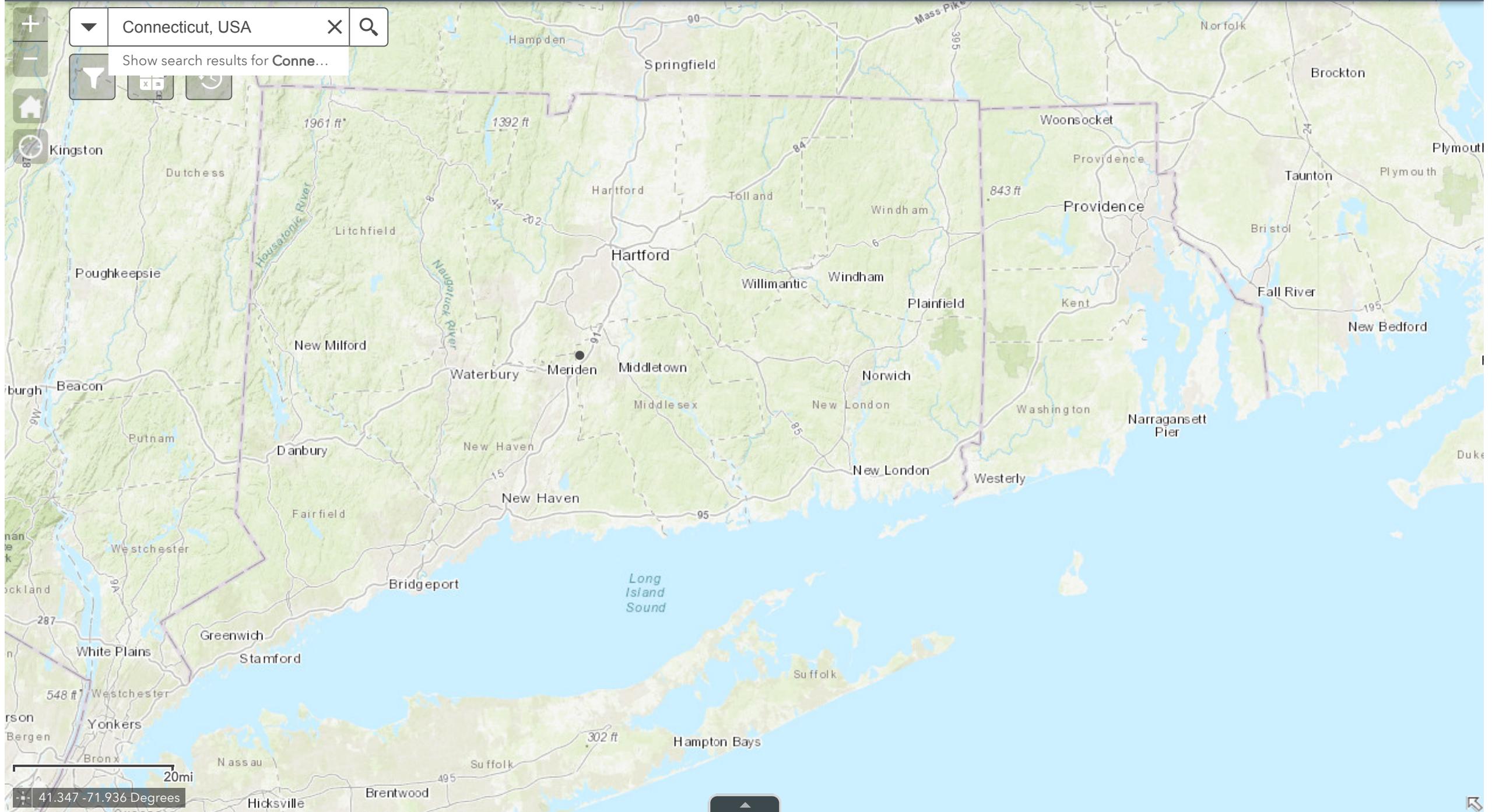
Wilderness Areas of the United States

Provided by Wilderness Connect



▼ Connecticut, USA X Q

Show search results for Conne...
[Filter icon] [Refresh icon]



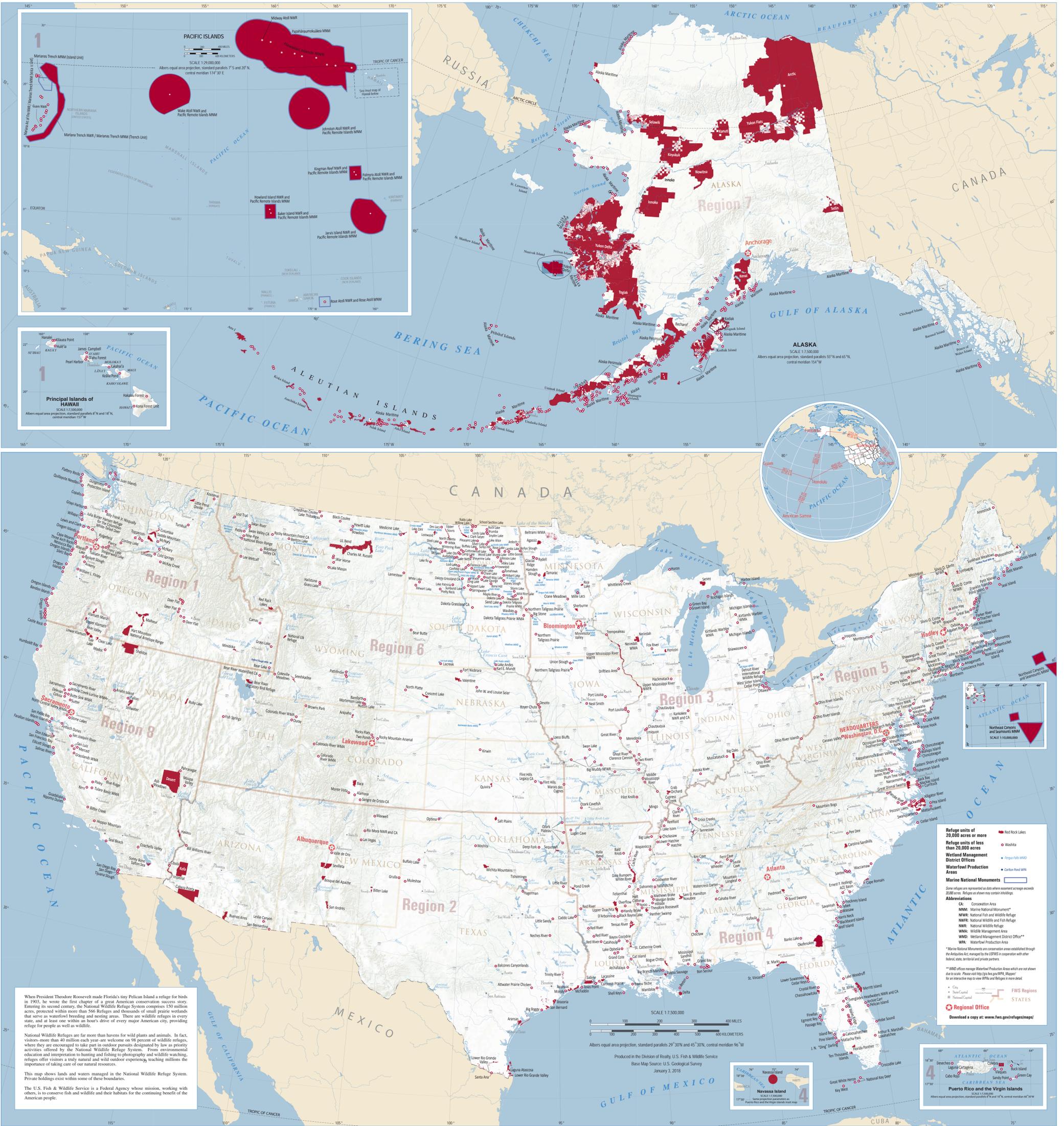
41.347 -71.936 Degrees





U.S. Fish & Wildlife Service

National Wildlife Refuge System





NLEB Streamlined Consultation

via Facsimile
(603) 223-0104

August 17, 2018

APT Project No.: CT445170

U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087

Attn: Thomas R. Chapman

Re: Proposed Wireless CT1225 Hamden 2
Telecommunication Facility
796 Woodin Street
Hamden, New Haven County, CT
Lat: 41.349789
Long: -72.962586
Overall Height: 120-feet AGL

Dear Mr. Chapman,

On behalf of Phoenix Partnership ("Phoenix"), All-Points Technology Corporation, P.C. ("APT") performed an evaluation with respect to possible federally-listed, threatened or endangered species to determine if the proposed referenced communications facility ("Facility") would result in a potential adverse effect to federally-listed species. This consultation was completed in accordance with the Federal Communications Commission ("FCC") rules implementing the National Environmental Policy Act ("NEPA") and Section 7 of the Endangered Species Act through the U.S. Fish and Wildlife Service's ("USFWS") Information, Planning, and Conservation System ("IPaC")¹ for a proposed Facility at the referenced Site.

Northern Long-eared Bat

One federally-listed² threatened species is known to occur in the vicinity of the subject property documented as the northern long-eared bat ("NLEB"; *Myotis septentrionalis*). Northern long-eared bat's range encompasses the entire State of Connecticut. As a result of this preliminary finding, APT performed an evaluation to determine if the proposed referenced communications facility would result in a likely adverse effect to NLEB. This consultation framework allows federal agencies to rely upon the USFWS January 5, 2016, intra-Service Programmatic Biological Opinion ("BO") on the Final 4(d) Rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if reinitiation of consultation is required per 50 CFR 402.16.

The proposed communications tower is located on a residentially-developed parcel within an upland forested area that will require some tree clearing. The project is not located near known NLEB hibernacula or maternity roost trees. Consultation with the Connecticut Department of Energy & Environmental Protection ("CTDEEP") Wildlife Division Natural Diversity Data Base ("NDDB") revealed that the proposed

¹ IPaC Consultation Tracking Number: 05E1NE00-2018-SLI-2298, dated July 6, 2018

² Listing under the federal Endangered Species Act

facility is not within 150 feet of a known occupied maternity roost tree and is not within 0.25 mile of a known NLEB hibernaculum. The nearest NLEB habitat resource to the proposed activity is located in North Branford ±5 miles to the east. Therefore, the proposed project is not likely to adversely affect NLEB. Please find enclosed the completed USFWS's NLEB final 4(d) rule Streamlined Consultation Form provided in Attachment 1. In accordance with USFWS NLEB Streamlined Consultation review policy, no other attachments (site plans, map and/or site photos) are required.³

Phoenix understands that if the USFWS does not respond within 30 days from submittal of this form, we may presume that USFWS determination is informed by the best available information and that Phoenix's project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, Programmatic BO.

Phoenix would consider following additional voluntary measures for NLEB conservation, noted below and as the project schedule allows.

- Conduct tree removal activities outside of the NLEB pup season (June 1-July 31) and active season (April 1-October 31) to minimize impacts to pups at roosts not yet identified.
- Avoid clearing suitable spring staging and fall swarming habitat within a five-mile radius of known or assumed NLEB hibernacula during the staging and swarming seasons (April 1-May 15 and August 15-November 14, respectively). NOT APPLICABLE.
- Maintain dead trees and large trees when possible.
- Use herbicides and pesticides only if unavoidable.
- Minimize exterior lighting, opting for down-shielded, motion-sensor security lights or other light minimization measures.

Migratory Bird Treaty Act

In August 2016, the USFWS prepared its *Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning*. These suggested best practices were developed to assist tower companies in developing their communication systems in a way which minimizes the risk to migratory birds and threatened and endangered species. The proposed facility would comply with the USFWS' recommended guidelines for reducing impacts to migratory birds as follows. The proposed facility would consist of a 120-foot monopole structure which requires neither guy wires nor lighting and is therefore consistent with USFWS' suggested tower design criteria: tower height is less than 200 feet above ground level; no guy wires; no tower lighting and on-ground security lighting will be down-shielded and motion-sensored. In addition, placement of the facility avoids wetlands, known bird concentration areas, rare species habitat (site is not located within a DEEP NDDB buffer area) and ridgelines, thereby minimizing environmental impacts that could affect migratory birds.

³ Personal communication with Maria Tur, USFWS New England Field Office, May 23, 2017.

Phoenix would consider following the USFWS' construction recommendations, noted below, as the project schedule allows.

- If construction activities should occur during the peak nesting period of April 15 through July 15⁴, efforts would be taken to complete tree clearing work prior to April 15.
- If tree clearing has not been completed by April 15, an avian survey may be conducted to determine if breeding birds would be disturbed.
- If the avian survey concludes that breeding birds would be disturbed, tree clearing activities may be restricted from the April 15 through July 15 peak nesting period (or a modified time frame based on the specific findings of the survey).

Therefore, the proposed construction activities are not anticipated to result in significant disturbance to breeding birds protected by the Migratory Bird Treaty Act ("MBTA").

Please feel free to contact me with any questions or requests for additional information by phone at (860) 663-1697 ext. 201 or via email at dgustafson@allpointstech.com.

Sincerely,



Dean Gustafson
Senior Environmental Scientist

Enclosure

⁴ USFWS identifies the peak avian nesting season as April 15 through July 15 and recommends clearing activities be performed before this period in order to comply with the Migratory Bird Treaty Act, personal communication with Maria Tur, USFWS New England Field Office, February 27, 2014.

Attachment
Northern Long-Eared Bat 4(d) Rule
Streamlined Consultation Form

Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form

Federal agencies should use this form for the optional streamlined consultation framework for the northern long-eared bat (NLEB). This framework allows federal agencies to rely upon the U.S. Fish and Wildlife Service's (USFWS) January 5, 2016, intra-Service Programmatic Biological Opinion (BO) on the final 4(d) rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if reinitiating of consultation is required per 50 CFR 402.16.

This form is not necessary if an agency determines that a proposed action will have no effect to the NLEB or if the USFWS has concurred in writing with an agency's determination that a proposed action may affect, but is not likely to adversely affect the NLEB (i.e., the standard informal consultation process). Actions that may cause prohibited incidental take require separate formal consultation. Providing this information does not address section 7(a)(2) compliance for any other listed species.

Information to Determine 4(d) Rule Compliance:	YES	NO
1. Does the project occur wholly outside of the WNS Zone ¹ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Have you contacted the appropriate agency ² to determine if your project is near known hibernacula or maternity roost trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Could the project disturb hibernating NLEBs in a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Could the project alter the entrance or interior environment of a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Does the project remove any trees within 0.25 miles of a known hibernaculum at any time of year?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Would the project cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot radius from the maternity roost tree from June 1 through July 31.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

You are eligible to use this form if you have answered yes to question #1 **or** yes to question #2 **and** no to questions 3, 4, 5 and 6. The remainder of the form will be used by the USFWS to track our assumptions in the BO.

Agency and Applicant³ Phoenix Partnership LLC, 110 Washington Avenue, North Haven, CT 06473

Project Name: CT1225 Hamden 2 CT

Project Location: 796 Woodin Street, Hamden, CT (Lat: 41.349789 Long: -72.962586)

Project IPaC SLI#: 05E1NE00-2018-SLI-2298, dated July 6, 2018

Basic Project Description: The Subject Property consists of an approximately 6.75-acres currently improved with a single-family residence built in 1940 located at 796 Woodin Street in Hamden, New Haven County, Connecticut. The proposed Phoenix Partnership Facility, consisting of a 120-foot monopole within a 40'x70' fenced gravel compound area within a 45'x 75' lease area. The Lease Exhibit depicts that a proposed 20' wide access and utility easement would extend southward onto the Subject Property from Woodin Street. The proposed easement would extend approximately 810' to the proposed ground lease area. A proposed 12' wide gravel access driveway would be located within the 20' wide access and utility easement. The Lease Exhibit depicts that proposed electrical and Telco services will

¹ <http://www.fws.gov/midwest/endangered/mammals/nleb/pdf/WNSZone.pdf>

² See <http://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html>

³ If applicable - only needed for federal actions with applicants (e.g., for a permit, etc.) who are party to the consultation.

extend to the proposed ground lease area through underground connections. The utilities would originate from an existing utility pole (UI #2244) located along the southern side of Woodin Street. A proposed pad-mounted transformer and utility backboard/meter bank will be located within the utility easement immediately north of the fenced of the compound.

General Project Information	YES	NO
Does the project occur within 0.25 miles of a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the project occur within 150 feet of a known maternity roost tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the project include forest conversion ⁴ ? (if yes, report acreage below)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Estimated total acres of forest conversion	±0.5 ac.	
If known, estimated acres ⁵ of forest conversion from April 1 to October 31	±0.5 ac.	
If known, estimated acres of forest conversion from June 1 to July 31 ⁶	±0.5 ac.	
Does the project include timber harvest? (if yes, report acreage below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated total acres of timber harvest		
If known, estimated acres of timber harvest from April 1 to October 31		
If known, estimated acres of timber harvest from June 1 to July 31		
Does the project include prescribed fire? (if yes, report acreage below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated total acres of prescribed fire		
If known, estimated acres of prescribed fire from April 1 to October 31		
If known, estimated acres of prescribed fire from June 1 to July 31		
Does the project install new wind turbines? (if yes, report capacity in MW below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated wind capacity (MW)		

Agency Determination:

By signing this form, the action agency determines that this project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule.

If the USFWS does not respond within 30 days from submittal of this form, the action agency may presume that its determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, Programmatic BO. The action agency will update this determination annually for multi-year activities.

The action agency understands that the USFWS presumes that all activities are implemented as described herein. The action agency will promptly report any departures from the described activities to the appropriate USFWS Field Office. The action agency will provide the appropriate USFWS Field Office with the results of any surveys conducted for the NLEB. Involved parties will promptly notify the appropriate USFWS Field Office upon finding a dead, injured, or sick NLEB.

Signature: Dean Gustafson

Date Submitted: August 17, 2018

Dean Gustafson, Sr. Biologist, APT
Agent for Phoenix Partnership LLC

⁴ Any activity that temporarily or permanently removes suitable forested habitat, including, but not limited to, tree removal from development, energy production and transmission, mining, agriculture, etc. (see page 48 of the BO).

⁵ If the project removes less than 10 trees and the acreage is unknown, report the acreage as less than 0.1 acre.

⁶ If the activity includes tree clearing in June and July, also include those acreage in April to October.



Connecticut Department of

**ENERGY &
ENVIRONMENTAL
PROTECTION**

August 24, 2018

Dean Gustafson
All- Points Technology Corporation, P.C.
3 Saddlebrook Dr
Killingworth, CT 06419
dgustafson@allpointstech.com

NDDB DETERMINATION NUMBER.: 201810262

Project: CT1225 Hamden 2, Wireless communications facility at 796 Woodin St, Hamden, CT

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding this project. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site. This determination is good for 2 years.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

Please contact me if you have further questions at shannon.kearney@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

/s/ Shannon B. Kearney
Wildlife Biologist



June 21, 2018

To: Ms. Marena Wisniewski
DECD/SHPO
450 Columbus Boulevard, Suite 5
Hartford, CT 06103

Re: Proposed Wireless Telecommunications Facility
Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
796 Woodin Street
Hamden, Connecticut 06514
APT Project#: CT445170

Determination of Effects for the Proposed Telecommunications Facility to be Constructed at 796 Woodin Street in West Haven, Connecticut:

In accordance with the Federal Communication Commission (FCC) National Environmental Policy Act (NEPA) rules and Section 106 of the National Historic Preservation Act (NHPA), the above-referenced telecommunications project, proposed by Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC, is being evaluated for its potential effects to districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP).

In accordance with the Nationwide Agreement, please find the attached Submission Packet, FCC Form 620, which presents the details on the proposed project as well as efforts that have been taken to identify, assess, and make determinations of effect on the impacts of the proposed project on Historic Properties. As part of this Undertaking, Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC, is proposing to construct a telecommunications facility at 796 Woodin Street in Hamden, Connecticut. The Subject Property consists of an approximately 6.81-acre parcel located on the south side of Woodin Street and abutting the Wilbur Cross Parkway (CT Route 15) to the west. The Project Area is located roughly 500' north of Wintergreen Brook, 2000' west of Belden Brook, and 2000' southeast of Lake Wintergreen. The Wilbur Cross Parkway passes through the Heroes Tunnel (completed 1948), a feature that allows the parkway to pass through a steep ridgeline known as West Rock Ridge, roughly 2,500' southwest of the Project Area. The parcel is the site of a single-family residence with attached garage – these built ca. 1940 and ca. 1980, respectively – that stand immediately south of an informal street identified as Old Woodin Street, which branches off Woodin Street and runs some 500' west before terminating roughly in front of the Host Property. A root cellar structure made of earth and concrete is located 50' east of the house, while several modern outbuildings (a mix of sheds and horse barns) are scattered a short distance southwest of the residence. A moderately-sized lawn surrounds the house, while fenced horse paddocks are located roughly 150' south of the residence. The proposed facility consists of a 120'-tall monopole with antennas situated within a 40' x 70' fenced (chain link) equipment compound and 45' x 75' lease area to be located roughly 850' south of the residence, and a 20'-wide access and utility easement and 12'-wide gravel driveway that will begin immediately west of the attached garage and continue to the southwest along the parcel's western boundary before swinging to the southeast and terminating at the proposed tower location. The antennas affixed to the proposed monopole will consist of panel antennas, these mounted in three sectors at a maximum

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE · KILLINGWORTH, CT 06419 · PHONE 860-663-1697 · FAX 860-663-0935

height of 124'. As ground level disturbance is required, an archaeological assessment prepared by David George of Heritage Consultants, LLC is included in this submission.

File reviews of the National Register Database, Connecticut State Historic Register, and Connecticut State Historic Resource Inventory were conducted by Lucas Karmazinas, architectural historian with FuturePast Preservation, and Mr. William Keegan, Historical Geographer & GIS Specialist, with Heritage Consultants, LLC, to identify Historic Properties within the 0.5-mile Area for Potential Effect (APE) for Visual and Direct Effects. One (1) Historic Property¹ previously listed or deemed eligible for the National Register of Historic Places was identified within the APE for Visual Effects, this is the Heroes Tunnel, formerly known as the West Rock Tunnel, which is a 1,200'-long, horseshoe-shaped twin barrel tunnel completed in 1949 and determined eligible for listing on the National Register of Historic Places by the Connecticut State Historic Preservation Office on April 20, 2016 (see attached correspondence).

Despite the presence of this resource, however, the proposed Undertaking would present No Adverse Effects on the historic property within the APE for Visual Effects. This is due to the fact that the proposed installation (a 120'-tall monopole with antennas) will not be visible from the resource and as a result will not impact its present visual setting and character, nor will it detract from the overall historic character and integrity of the tunnel. The proposed monopole will not be visible as it will be constructed on a heavily wooded parcel located more than 0.4-mile away from the Project Area, the latter situated on the side of an eastward facing slope that descends away from the Heroes Tunnel. Furthermore, heavy tree cover flanking the Wilbur Cross Parkway and covering the hillside into which the tunnel is built screens visibility from the resource towards the Project Area in all seasons.

This being said, per request from Connecticut's State Historic Preservation Office, a good-faith effort has been made on the part of the investigator to identify any undocumented resources that might be considered Historic Properties. While evaluated outside of the scope of the Submission Packet, FCC Form 620, ten historic resources were identified within the APE for Visual Effects. They include the houses at 645 Woodin Street (ca. 1930), 683 Woodin Street (ca. 1921), 796 Woodin Street (ca. 1940), 824 Wintergreen Avenue (ca. 1930), 831 Wintergreen Avenue (ca. 1930), 839 Wintergreen Avenue (ca. 1940), 986 Wintergreen Avenue (ca. 1900), 1020 Wintergreen Avenue (ca. 1890), and 24 Tierney Road (ca. 1900), as well as the cemetery located at what can be informally identified as 640 Woodin Road. The latter is known as the Woodin Street Cemetery (ca. 1900) and is technically located within the boundaries of the City of New Haven. Detailed documentation regarding the Woodin Cemetery is scarce, however, it was established and utilized as a potter's field associated with the since-demolished Springside Farm, which served as the almshouse for the City of New Haven during the late 19th and early-to-mid 20th centuries. The cemetery lacks any headstones or monuments except for a stone cross located at the rear (southern end) of the cemetery. The cross lacks any inscriptions identifying the cemetery or those buried there. Neither the residential structures, nor the cemetery, were deemed eligible for listing on the State or National Register of Historic Places due to their perceived lack of exceptional historical significance, various alterations, and extensive changes to the surrounding landscape/neighborhood.

Sincerely,



Lucas Karmazinas
c/o All-Points Technology Corporation, PC

¹ The Nationwide Programmatic Agreement defines a "Historic Property" as "Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or NHO that meet the National Register criteria."

Notification Date:

File Number:

General Information

1) (Select only one) (NE) NE – New UA – Update of Application WD – Withdrawal of Application	
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.	File Number:

Applicant Information

3) FCC Registration Number (FRN): 0024512105
4) Name: Tarpon Towers II, LLC

Contact Name

5) First Name: Doug	6) MI:	7) Last Name: Butler	8) Suffix:
9) Title: Regional Manager			

Contact Information

10) P.O. Box: 32751	And /Or	11) Street Address: 1051 Winderley Place	
12) City: Maitland		13) State: FL	14) Zip Code: 32751
15) Telephone Number: (407)660-7840		16) Fax Number:	
17) E-mail Address: s.morales@trileaf.com			

Consultant Information

18) FCC Registration Number (FRN): 0021738141
19) Name: Lucas Karmazinas c/o All Points Technology Corp., P. C.

Principal Investigator

20) First Name: Lucas	21) MI:	22) Last Name: Karmazinas	23) Suffix:
24) Title: Architectural Historian			

Principal Investigator Contact Information

25) P.O. Box:	And /Or	26) Street Address: 3 Saddlebrook Drive	
27) City: Killingworth		28) State: CT	29) Zip Code: 06419
30) Telephone Number: (860)633-1697		31) Fax Number:	
32) E-mail Address: egustafson@allpointstech.com			

Professional Qualification

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
34) Areas of Professional Qualification:	
() Archaeologist	
(<input checked="" type="checkbox"/>) Architectural Historian	
() Historian	
() Architect	
() Other (Specify) _____	

Additional Staff

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
--	--

If "YES," complete the following:

36) First Name: David	37) MI:	38) Last Name: George	39) Suffix:
------------------------------	---------	------------------------------	-------------

40) Title: Heritage Consultants
--

41) Areas of Professional Qualification:
(<input checked="" type="checkbox"/>) Archaeologist
() Architectural Historian
() Historian
() Architect
() Other (Specify) _____

36) First Name: William	37) MI:	38) Last Name: Keegan	39) Suffix:
--------------------------------	---------	------------------------------	-------------

40) Title: Heritage Consultants
--

41) Areas of Professional Qualification:
() Archaeologist
() Architectural Historian
(<input checked="" type="checkbox"/>) Historian
() Architect
() Other (Specify) _____

Site Information

Tower Construction Notification System

1) TCNS Notification Number: **173347**

Site Information

2) Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: () Yes (**X**) No

3) Site Name: **Hamden CT**

4) Site Address: **796 Woodin Street**

5) Detailed Description of Project:

Tarpon Towers II, LLC represented by Phoenix Partnership LLC proposes to build a 120' tall monopole communications tower. Please see attached 2-C and site plans for additional details.

6) City: **Hamden**

7) State: **CT**

8) Zip Code: **06514**

9) County/Borough/Parish: **NEW HAVEN**

10) Nearest Crossroads: **Woodin Street and Fawn Ridge Drive**

11) NAD 83 Latitude (DD-MM-SS.S): **41-20-59.2**

(**X**) N or () S

12) NAD 83 Longitude (DD-MM-SS.S): **072-57-45.3**

() E or (**X**) W

Tower Information

13) Tower height above ground level (include top-mounted attachments such as lightning rods): 37.8 () Feet (**X**) Meters

14) Tower Type (Select One):

() Guyed lattice tower

() Self-supporting lattice

(**X**) Monopole

() Other (Describe):

Project Status

15) Current Project Status (Select One):

(**X**) Construction has not yet commenced

() Construction has commenced, but is not completed

Construction commenced on: _____

() Construction has been completed

Construction commenced on: _____

Construction completed on: _____

Determination of Effect

14) Direct Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

15) Visual Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>173347</u> Number of Tribes/NHOs: <u>9</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Bad River Band of Lake Superior Tribe of Chippewa Indians

Contact Name

5) First Name: Edith	6) MI:	7) Last Name: Leoso	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/13/2018</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Delaware Tribe of Indians of Oklahoma

Contact Name

5) First Name: Dr. Brice	6) MI: M	7) Last Name: Obermeyer	8) Suffix:
9) Title:			

Dates & Response

10) Date Contacted <u>06/13/2018</u>	11) Date Replied <u>06/13/2018</u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>173347</u> Number of Tribes/NHOs: <u>9</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Keweenaw Bay Indian Community

Contact Name

5) First Name: Gary	6) MI:	7) Last Name: Loonsfoot	8) Suffix: Jr
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/14/2018</u>	11) Date Replied _____
<input checked="" type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input type="checkbox"/> Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Lac du Flambeau Band of Lake Superior Chippewa Indians

Contact Name

5) First Name: Melinda	6) MI: J	7) Last Name: Young	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/14/2018</u>	11) Date Replied <u>06/19/2018</u>
<input type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input checked="" type="checkbox"/> Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>173347</u> Number of Tribes/NHOs: <u>9</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Lac Vieux Desert Band of Lake Superior Chippewa Indians

Contact Name

5) First Name: Daisy	6) MI:	7) Last Name: McGeshick	8) Suffix: Ms
9) Title: THPO and NAGPRA Representative			

Dates & Response

10) Date Contacted <u>06/13/2018</u>	11) Date Replied <u>06/18/2018</u>
<input type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input checked="" type="checkbox"/> Replied/Other	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Mashantucket Pequot Tribe

Contact Name

5) First Name: Michael	6) MI: K	7) Last Name: Johnson	8) Suffix:
9) Title: Deputy THPO			

Dates & Response

10) Date Contacted <u>06/13/2018</u>	11) Date Replied <u>06/15/2018</u>
<input type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input checked="" type="checkbox"/> Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>173347</u> Number of Tribes/NHOs: <u>9</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Mohegan Indian Tribe

Contact Name

5) First Name: Elaine	6) MI:	7) Last Name: Thomas	8) Suffix:
9) Title: Deputy THPO			

Dates & Response

10) Date Contacted <u>06/14/2018</u>	11) Date Replied <u>06/13/2018</u>
(<input type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other	

Tribal/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Narragansett Indian Tribe

Contact Name

5) First Name: Sequahna	6) MI:	7) Last Name: Mars	8) Suffix:
9) Title: Program Manager			

Dates & Response

10) Date Contacted <u>06/14/2018</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>173347</u> Number of Tribes/NHOs: <u>9</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin

Contact Name

5) First Name: Joseph	6) MI:	7) Last Name: Montano	8) Suffix:
9) Title: Assistant-THPO			

Dates & Response

10) Date Contacted <u>06/13/2018</u>	11) Date Replied _____
<input checked="" type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input type="checkbox"/> Replied/Other	

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o

Historic Property

4) Property Name: Heroes Tunnel
5) SHPO Site Number:

Property Address

6) Street Address: Wilbur Cross Parkway (CT Rt. 15)		
7) City: Hamden	8) State: CT	9) Zip Code: 06514
10) County/Borough/Parish: NEW HAVEN		

Status & Eligibility

11) Is this property listed on the National Register? Source: _____	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: CT SHPO DOE 4/20/2016 (correspondence attached)	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
13) Is this property a National Historic Landmark?	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o

14) Direct Effects (Select One): <input checked="" type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input checked="" type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name: **Mayor**

Contact Name

3) First Name: **Curt**

4) MI:

5) Last Name: **Leng**

6) Suffix:

7) Title: **Mayor**

Contact Information

8) P.O. Box:

**And
/Or**

9) Street Address: **Hamden Government Center, 2750 Dixwell Ave.**

10) City: **Hamden**

11) State: **CT**

12) Zip Code: **06518**

13) Telephone Number: **(203)287-7100**

14) Fax Number:

15) E-mail Address: **cleng@hamden.com**

16) Preferred means of communication:

() E-mail

() Letter

() Both

Dates & Response

17) Date Contacted **06/12/2018**

18) Date Replied _____

() No Reply

() Replied/No Interest

() Replied/Have Interest

() Replied/Other

Additional Information

19) Information on local government's role or interest (optional):

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name: **Town Planner**

Contact Name

3) First Name: **Daniel**

4) MI:

5) Last Name: **Kops**

6) Suffix:

7) Title: **Town Planner**

Contact Information

8) P.O. Box:

And
/Or

9) Street Address: **Hamden Government Center, 2750 Dixwell Ave.**

10) City: **Hamden**

11) State: **CT**

12) Zip Code: **06518**

13) Telephone Number: **(203)287-7100**

14) Fax Number:

15) E-mail Address: **dkops@hamden.com**

16) Preferred means of communication:

() E-mail

(**X**) Letter

() Both

Dates & Response

17) Date Contacted **06/12/2018**

18) Date Replied _____

(**X**) No Reply

() Replied/No Interest

() Replied/Have Interest

() Replied/Other

Additional Information

19) Information on local government's role or interest (optional):

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name: **CLG Representative**

Contact Name

3) First Name: **Daniel**

4) MI:

5) Last Name: **Kops**

6) Suffix:

7) Title: **CLG Representative**

Contact Information

8) P.O. Box:

**And
/Or**

9) Street Address: **Hamden Government Center, 2750 Dixwell Ave.**

10) City: **Hamden**

11) State: **CT**

12) Zip Code: **06518**

13) Telephone Number: **(203)287-7100**

14) Fax Number:

15) E-mail Address: **dkops@hamden.com**

16) Preferred means of communication:

() E-mail

() Letter

() Both

Dates & Response

17) Date Contacted **06/12/2018**

18) Date Replied _____

() No Reply

() Replied/No Interest

() Replied/Have Interest

() Replied/Other

Additional Information

19) Information on local government's role or interest (optional):

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name: **Chairman, Historic Properties Commission**

Contact Name

3) First Name: **Todd**

4) MI:

5) Last Name: **Levine**

6) Suffix:

7) Title: **Chairman, Historic Properties Commission**

Contact Information

8) P.O. Box:

**And
/Or**

9) Street Address: **Hamden Government Center, 2750 Dixwell Ave.**

10) City: **Hamden**

11) State: **CT**

12) Zip Code: **06518**

13) Telephone Number: **(203)287-7100**

14) Fax Number:

15) E-mail Address: **todd.levine@ct.gov**

16) Preferred means of communication:

() E-mail

() Letter

() Both

Dates & Response

17) Date Contacted **06/12/2018**

18) Date Replied _____

() No Reply

() Replied/No Interest

() Replied/Have Interest

() Replied/Other

Additional Information

19) Information on local government's role or interest (optional):

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	() <u>Y</u> es (X) <u>N</u> o
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name:

Contact Name

4) First Name:	5) MI:	6) Last Name:	7) Suffix:
8) Title:			

Contact Information

9) P.O. Box:	And /Or	10) Street Address:		
11) City:		12) State:	13) Zip Code:	
14) Telephone Number:		15) Fax Number:		
16) E-mail Address:				
17) Preferred means of communication:				
() E-mail				
() Letter				
() Both				

Dates & Response

18) Date Contacted _____	19) Date Replied _____
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

20) Information on other consulting parties' role or interest (optional):

Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

SHPO/THPO

Name: Connecticut Historical Commission (TCNS SHPO)

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency.

SHPO/THPO Name: _____

SHPO/THPO Name: _____

SHPO/THPO Name: _____

Certification

I certify that all representations on this FCC Form 620 Submission Packet and the accompanying attachments are true, correct, and complete.

Party Authorized to Sign

First Name:	MI:	Last Name:	Suffix:
Signature: _____			Date: _____

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 1 – Consultant Information

Provide a current copy of the résumé or curriculum vitae for the Principal Investigator and any researcher or other person who contributed to, reviewed, or provided significant input into the research, analysis, writing or conclusions presented in this filing.

Current curriculum vitae or résumés are included within this attachment or on file at the Connecticut State Historic Preservation Office for the Principal Investigator and any researcher or other person who contributed to, reviewed, or provided significant input into the research, analysis, writing or conclusions presented in this filing.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 2 – Site Information - Photographs

You are required to provide photographs and maps as part of this filing. Additional site information can be provided in an optional attachment.

Photograph Requirements:

Except in cases where no Historic Properties were identified within the Areas of Potential Effects, submit photographs as described below. Photographs should be in color, marked so as to identify the project, keyed to the relevant map or text, and dated; the focal length of the lens and the height of the camera should be noted. The source of any photograph included but not taken by the Applicant or its consultant (including copies of historic images) should be identified on the photograph.

- 1. Photographs taken from the tower site should show views from the proposed location in all directions. The direction (e.g., north, south, etc.) should be indicated on each photograph, and, as a group, the photographs should present a complete (360 degree) view of the area around the communications tower or non-tower structure.*
- 2. Photographs of all listed and eligible properties within the Areas of Potential Effects.*
- 3. If any listed or eligible properties are visible from the proposed tower site, photographs looking at the site from each historic property. The approximate distance in feet (meters) between the site and the historic property should be included. If any listed or eligible properties are within the APE, photos looking at each historic property should be included.*

Include aerial photos of the APE for visual effects, if available. There are a variety of publicly available websites that provide aerial photographs.

Please see the attached photographs, which were taken by Mr. Lucas A. Karmazinas, Architectural Historian with FuturePast Preservation, DBA, for All-Points Technology Corp. P.C., on February 21, 2018 (photographs #9-#26), or Mr. David George, Archaeologist with Heritage Consultants, LLC, for All-Points Technology Corp. P.C., on June 11, 2018 (photographs #1-#8), unless otherwise noted. Two photograph location maps are included within this attachment.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.



Photo 1. Overview photo of the tower location facing south.



Photo 2. Overview photo of the tower location facing southwest.



Photo 3. Overview photo of the proposed access road facing southwest.



Photo 4. Overview photo of the proposed access road facing south.



Photo 5. Overview photo along the proposed access road facing north.



Photo 6. Overview photo along the proposed access road facing northeast.



Photo 7. Overview photo along the proposed access road facing northeast (note access road will be on the right side of the fence line in this photo).

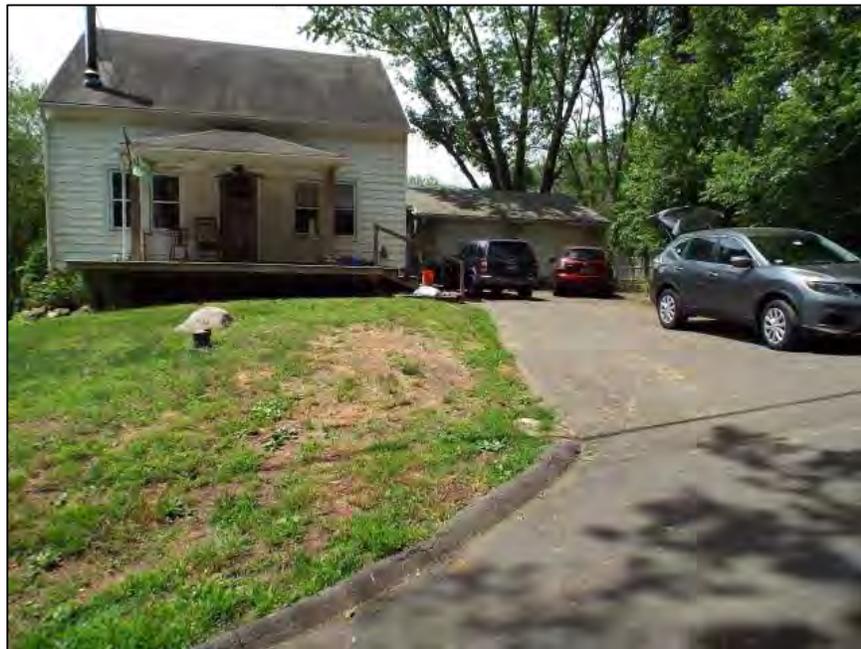


Photo 8. Overview photo of residence near the southern end of the proposed access road facing northeast.

NEW TOWER SUBMISSION PACKET – FCC FORM 620



Photograph 9.

View looking southwest at the Subject Property (796 Woodin Street, ca. 1940 and ca. 1980) from Woodin Street.

2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC

APT Project Number: CT445170

Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 10.
View looking northwest away from the Subject Property along Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 11.
View looking northeast away from the Subject Property along Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 12.
View looking southeast away from the Subject Property along Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 13.
View looking northwest towards the Subject Property from Fawn Ridge Drive.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 14.
View looking southwest towards the Subject Property from Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 15.
View looking west towards the Subject Property from the intersection of Woodin Street and Mueller Drive.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 16.
View looking south away from the Subject Property at the Woodin Street Cemetery.
1/24/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 17.
View looking northwest towards the Subject Property from Wilmot Road.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 18.
View looking north towards the Subject Property from Level Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 19.
View looking northeast towards the Subject Property from Tierney Road.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 20.
View looking northeast towards the Subject Property from the Heroes Tunnel.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

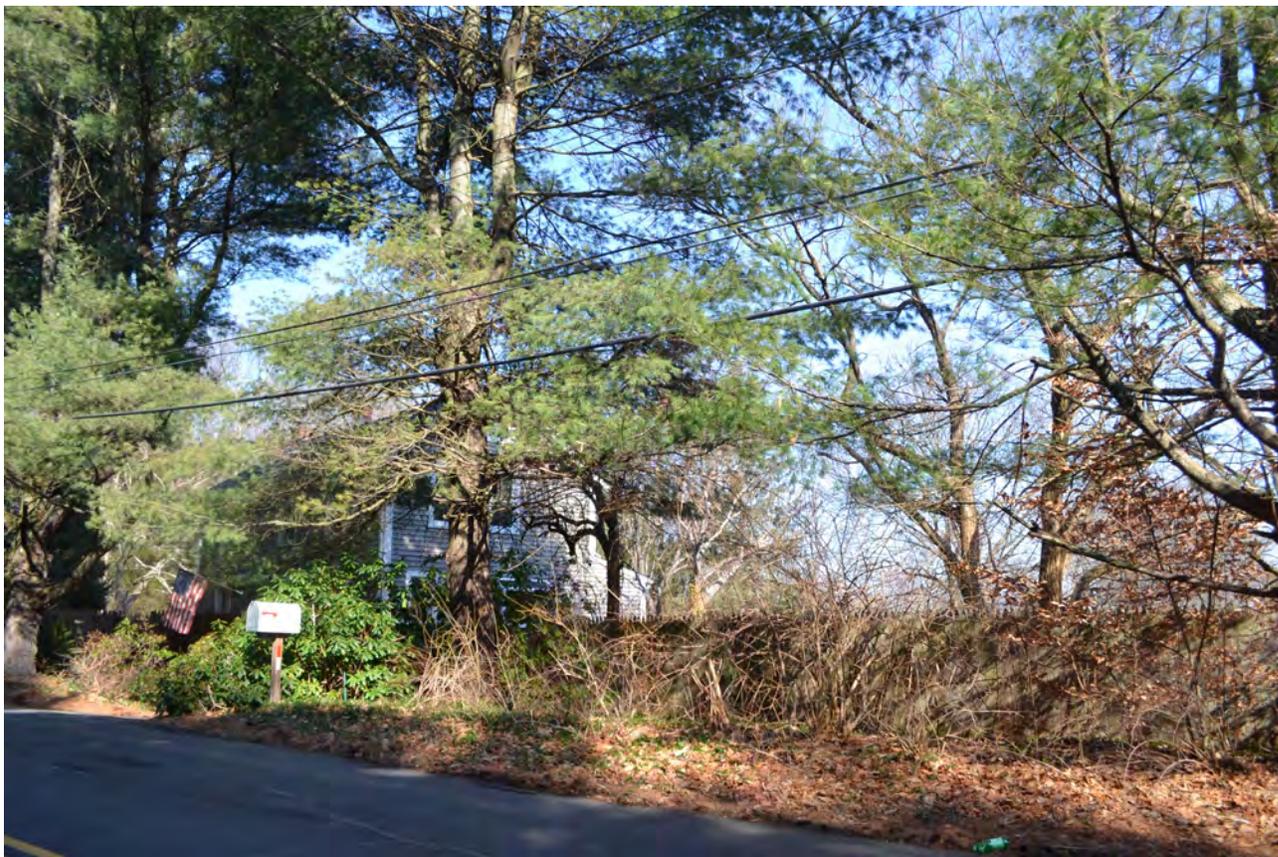
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Photograph 21.
View looking southwest at the Heroes Tunnel (1949) from the Wilbur Cross Parkway (CT Route 15).
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 22.
View looking east towards the Subject Property from Wintergreen Avenue.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 23.
View looking east towards the Subject Property from Wintergreen Avenue.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 24.
View looking southeast towards the Subject Property from Wintergreen Avenue.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 25.
View looking southeast towards the Subject Property from the intersection of Wintergreen Avenue and Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Photograph 26.
View looking south towards the Subject Property from Woodin Street.
2/21/2018.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Attachment 3 – Site Information – Map Requirements

Include one or more 7.5-minute quad USGS topographical maps that:

- a. Identify the Areas of Potential Effects for both Direct and Visual Effects. If a map is copied from the original, include a key with name of quad and date.*
- b. Show the location of the proposed collocation site and any new access roads or other easements including excavations.*
- c. Show the locations of each property listed.*
- d. Include keys for any symbols, colors, or other identifiers.*
- e. Submit color maps whenever possible.*

The following maps are attached to this report:

- Figure 1 – Aerial Photograph and Photograph Directions Map #1.
- Figure 2 – Aerial Photograph and Photograph Directions Map #2.
- Figure 3 – Topographic and Site Map.
- Figure 4 – Bird’s Eye View Aerial Photograph.
- Figure 5 – Cultural Resources Screen: National.
- Figure 6 – Cultural Resources Screen: Local.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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Figure 1: Aerial Photograph and Photograph Directions Map #1.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

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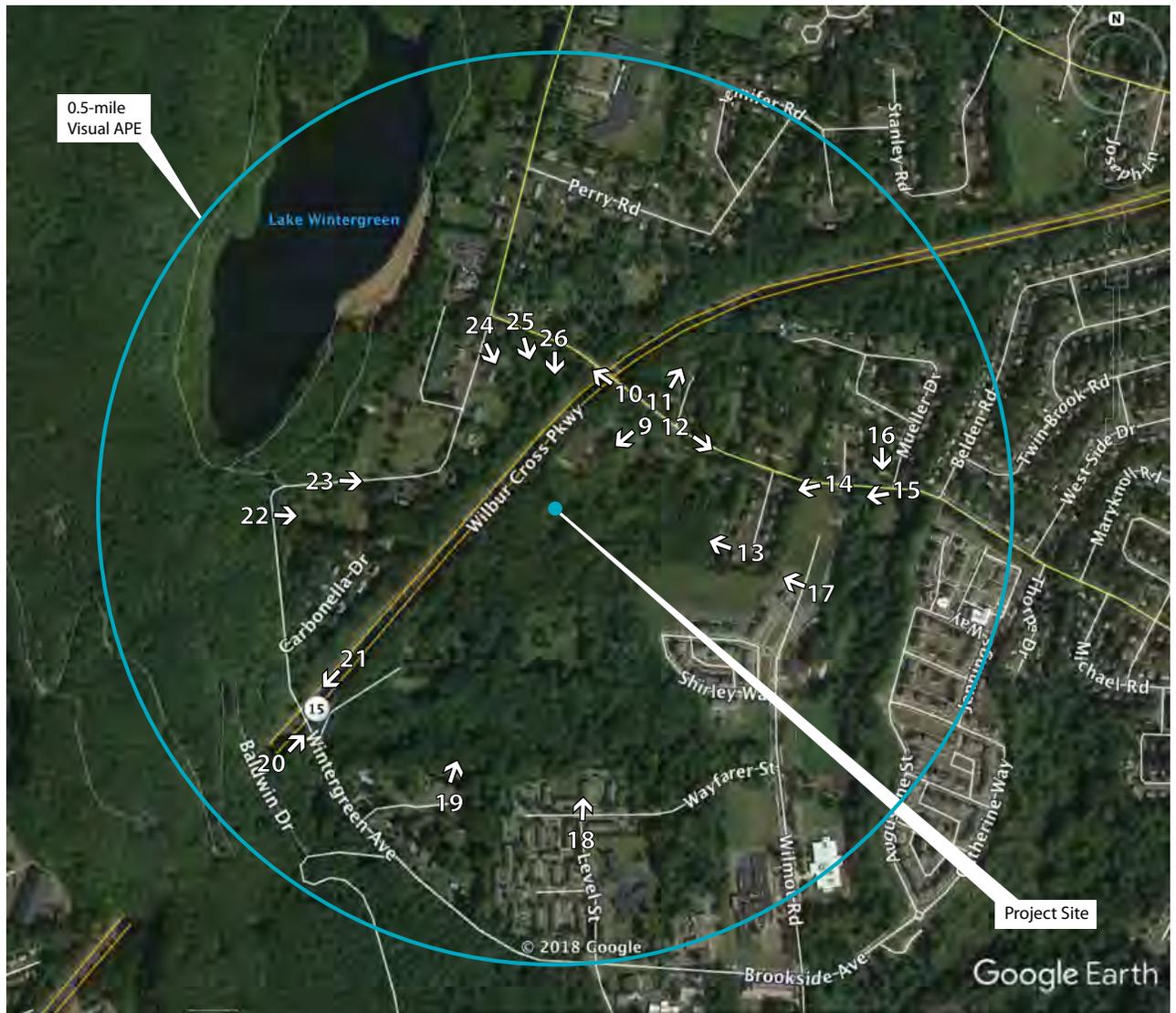
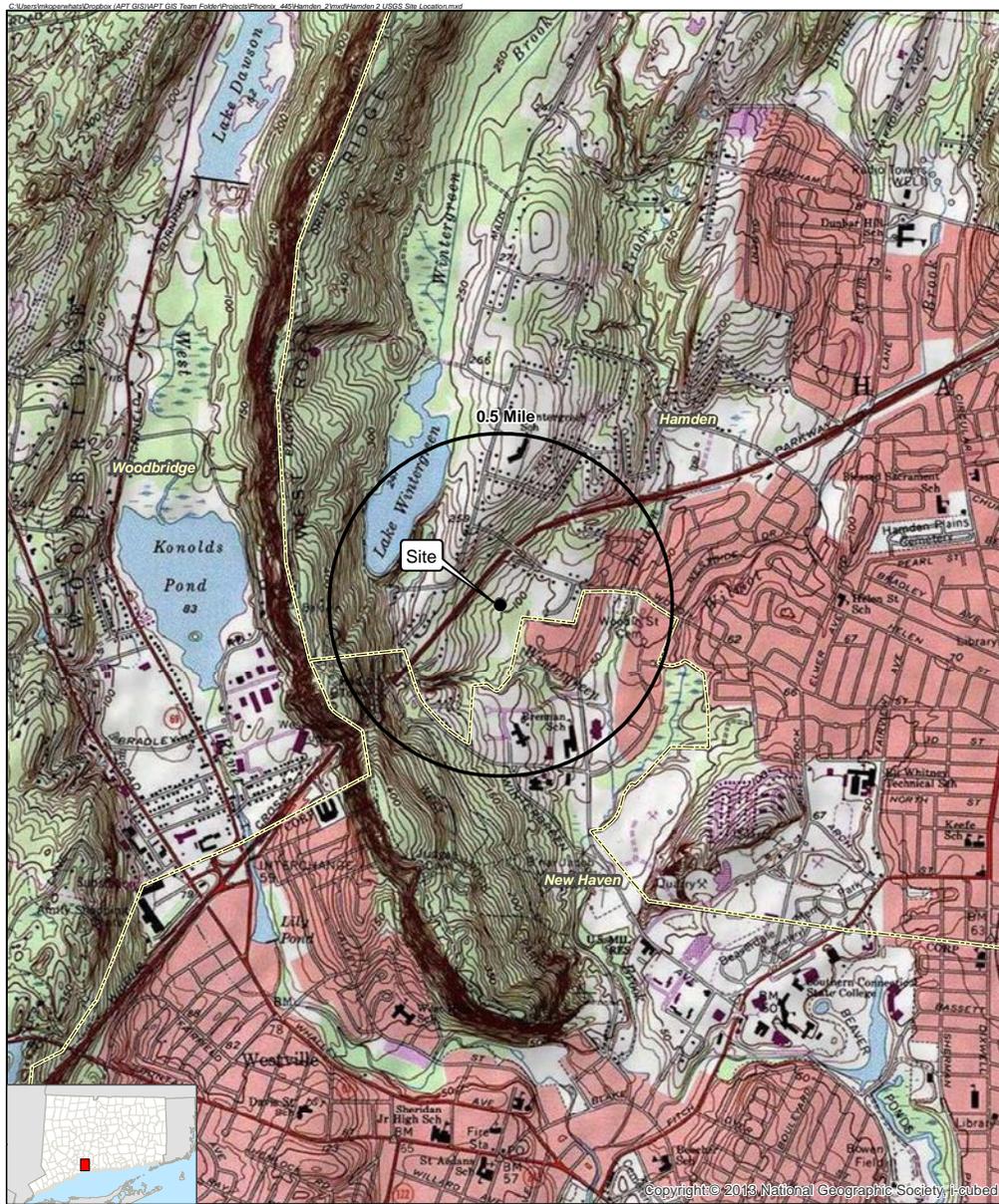


Figure 2: Aerial Photograph and Photograph Directions Map #2.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

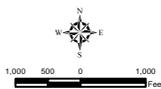
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Legend

- Site
- Municipal Boundary

Map Notes:
 Base Map Source: USGS 7.5 Minute Topographic
 Quadrangle Map, New Haven, CT (1984)
 Map Scale: 1:24,000
 Map Date: June 2016



Site Location Map

Proposed Wireless
 Telecommunications Facility
 Hamden CT
 796 Woodin Street
 Hamden, Connecticut



Figure 3: Topographic and Site Map.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

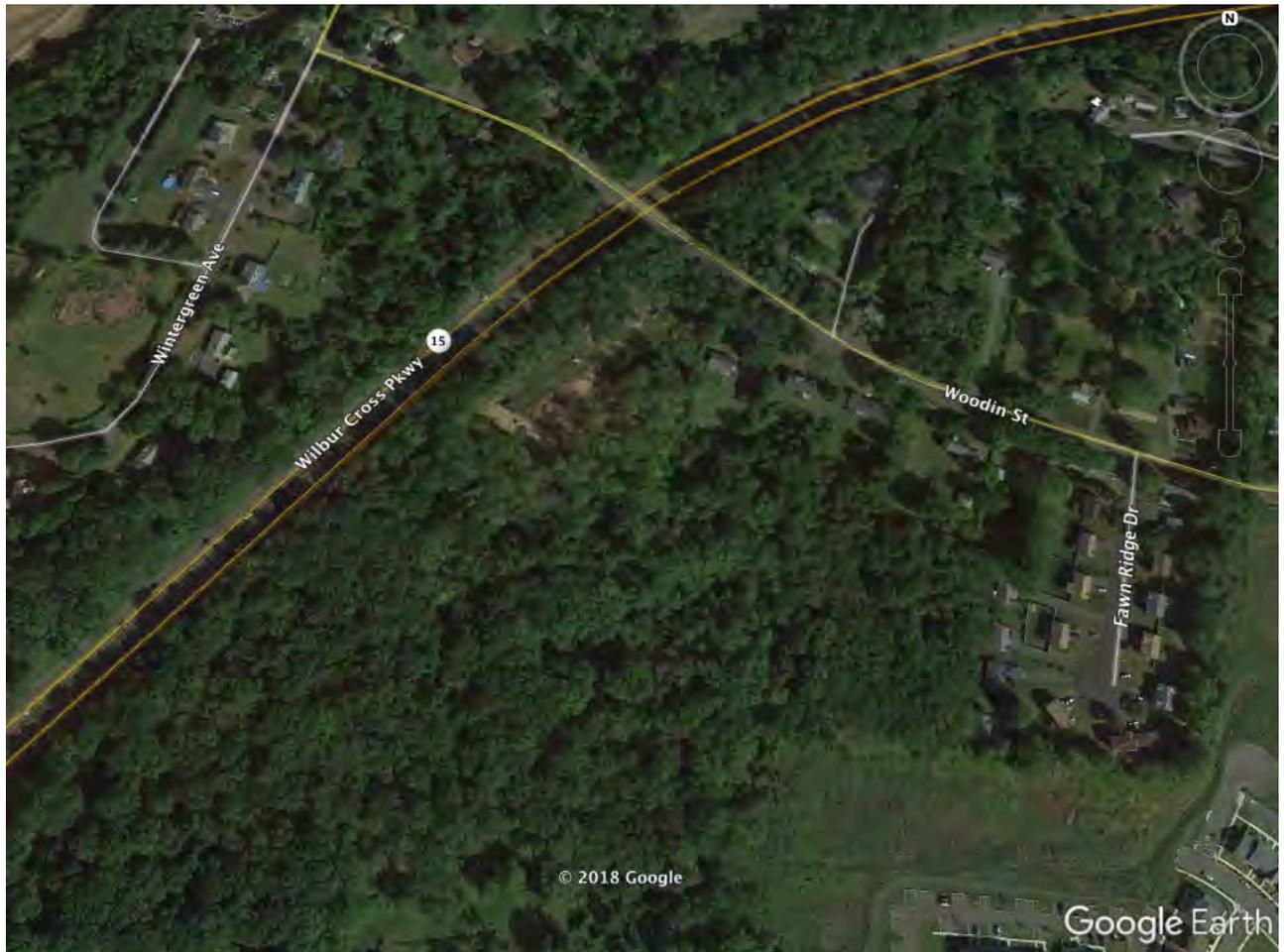
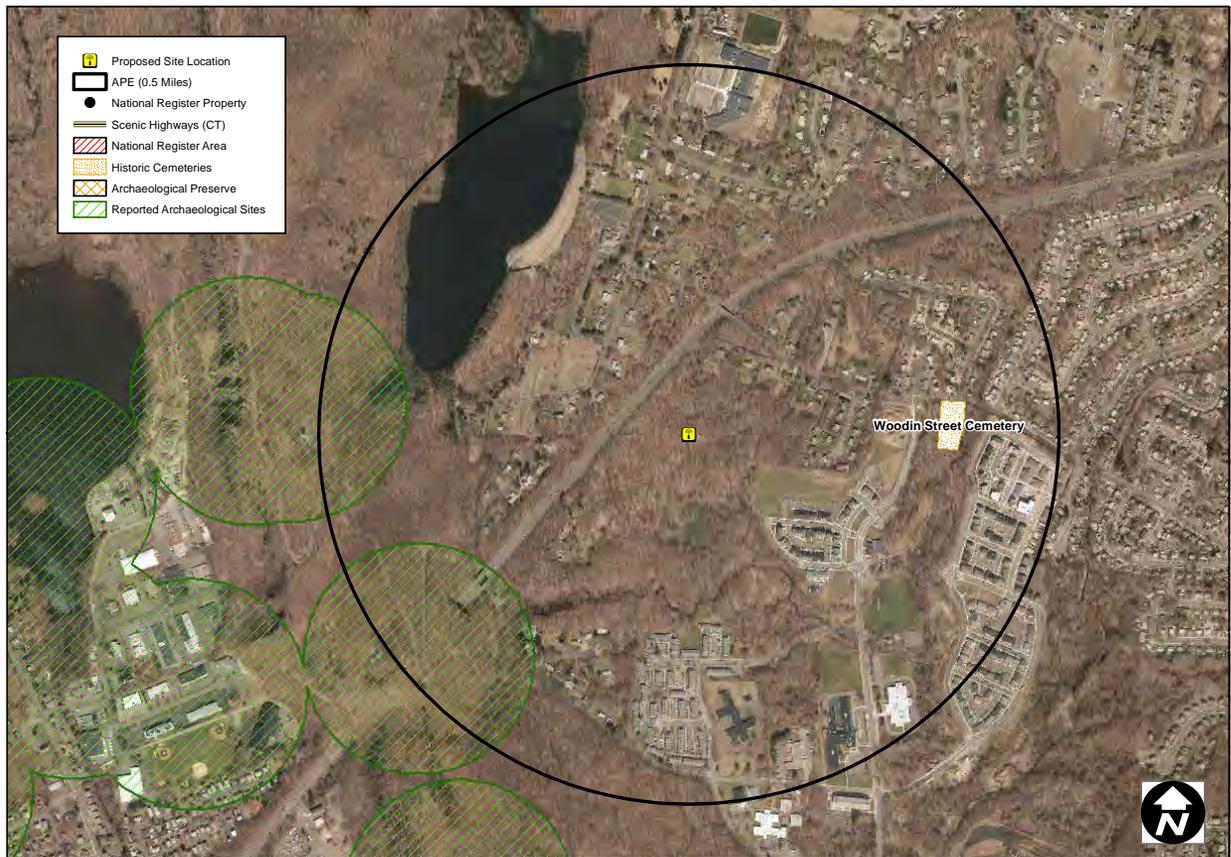


Figure 4: Bird's Eye View Aerial Photograph

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620



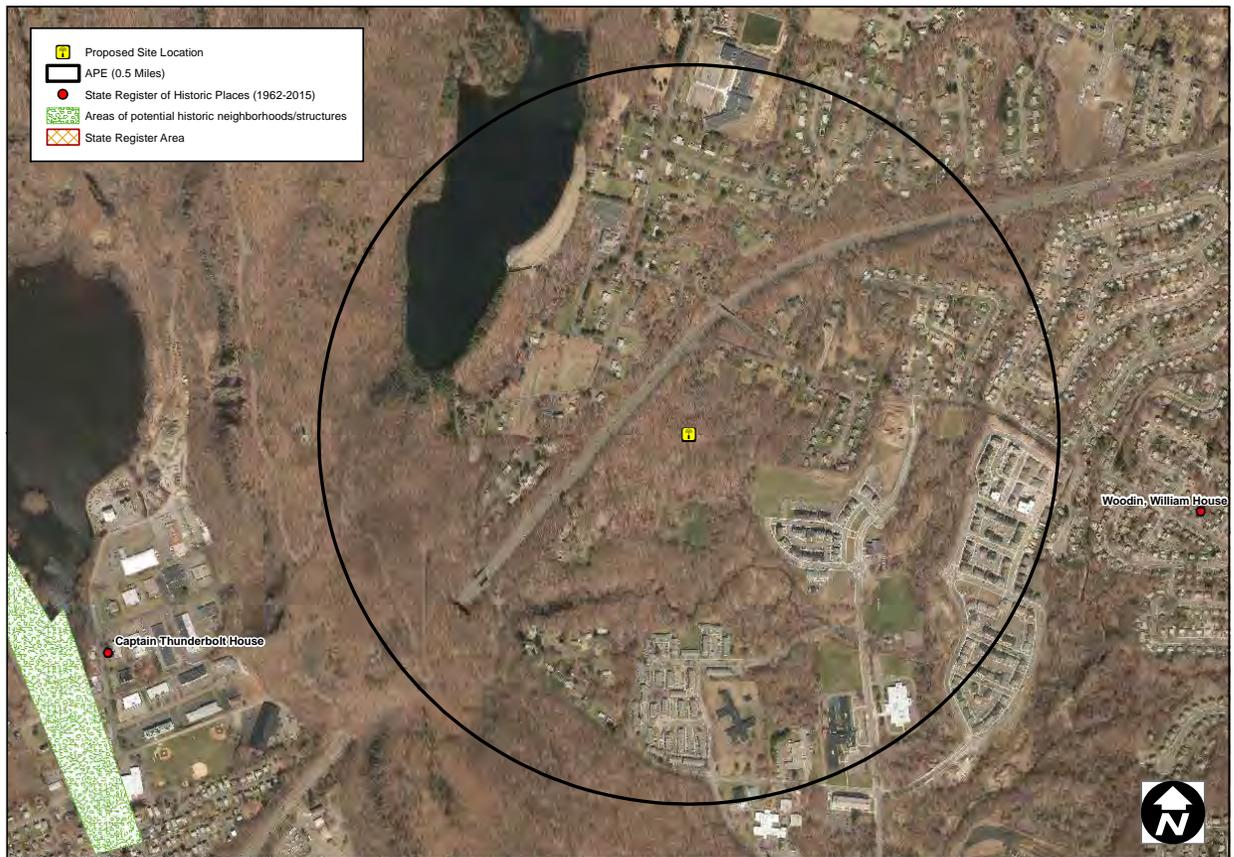
Cultural Resources Screen
CT445170 Hamden 2 -796 Woodin Street, Hamden CT
January 12, 2018 \ USGS QUAD: New Haven

Prepared for All-Points Technology Corp. by Heritage Consultants, 2018.

Figure 5: Cultural Resources Screen – National

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620



Cultural Resources Screen
CT445170 Hamden 2 -796 Woodin Street, Hamden CT
January 12, 2018 \ USGS QUAD: New Haven

Prepared for All-Points Technology Corp. by Heritage Consultants, 2018.

Figure 6: Cultural Resources Screen – Local

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 4 – Site Information – Additional Site Information

Additional Site Information and Recommendations:

Describe any additional structures, access roads, utility lines, fences, easements, or other construction planned for the site in conjunction with the proposed collocation and related facilities. Use this attachment to provide additional details needed to provide a full and accurate description of any structural alterations, additions, or other construction activities that will take place to complete the collocation.

The Subject Property, located at 796 Woodin Street in Hamden, Connecticut, is situated south side of Woodin Street and abutting the Wilbur Cross Parkway (CT Route 15) to the west. The Project Area is located roughly 500' north of Wintergreen Brook, 2000' west of Belden Brook, and 2000' southeast of Lake Wintergreen. The Wilbur Cross Parkway passes through the Heroes Tunnel (completed 1948), a feature that allows the parkway to pass through a steep ridgeline known as West Rock Ridge, roughly 2,500' southwest of the Project Area. The parcel is the site of a single-family residence with attached garage – these built ca. 1940 and ca. 1980, respectively – that stand immediately south of an informal street identified as Old Woodin Street, which branches off Woodin Street and runs some 500' west before terminating roughly in front of the Host Property. A root cellar structure made of earth and concrete is located 50' east of the house, while several modern outbuildings (a mix of sheds and horse barns) are scattered a short distance south of the residence. A moderately-sized lawn surrounds the house, while fenced horse paddocks are located roughly 150' south of the residence. The area in the vicinity of the site remained largely wooded or agricultural as late as the 1930s, however, by the early 1950s a degree of suburban development was taking place to the east of the Subject Property, while the Wilbur Cross Parkway had been laid out to the north and west. Further residential development took place to the north, west, and south by the mid-1960s.

Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC, is proposing to construct a telecommunications facility consisting of a 120'-tall monopole with antennas situated within a 40' x 70' fenced (chain link) equipment compound and 45' x 75' lease area to be located roughly 850' south of the residence, and a 20'-wide access and utility easement and 12'-wide gravel driveway that will begin immediately west of the attached garage and continue to the southwest along the parcel's western boundary before swinging to the southeast and terminating at the proposed tower location. The antennas affixed to the proposed monopole will consist of panel antennas, these mounted in three sectors at a maximum height of 124'.

Site Plans provided by Tarpon Towers II, LLC are included in this attachment.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC

APT Project Number: CT445170

Project Location: 796 Woodin Street, Hamden, CT, 06514.

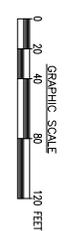
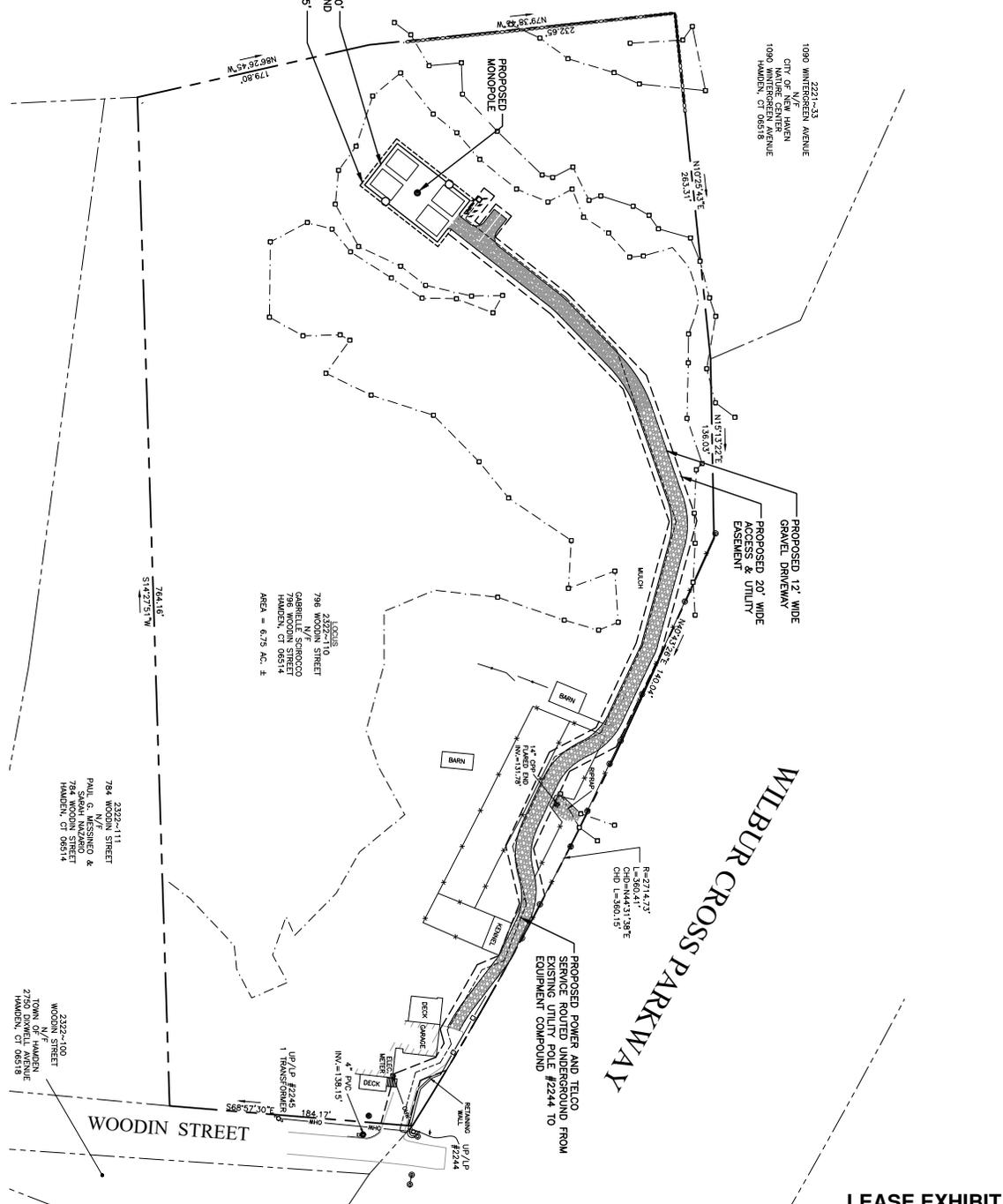


VICINITY MAP
SCALE: N.T.S.

CENTER OF STRUCTURE COORDINATES:
LAT: N41° 20' 59.24"
LONG: W72° 57' 45.31"

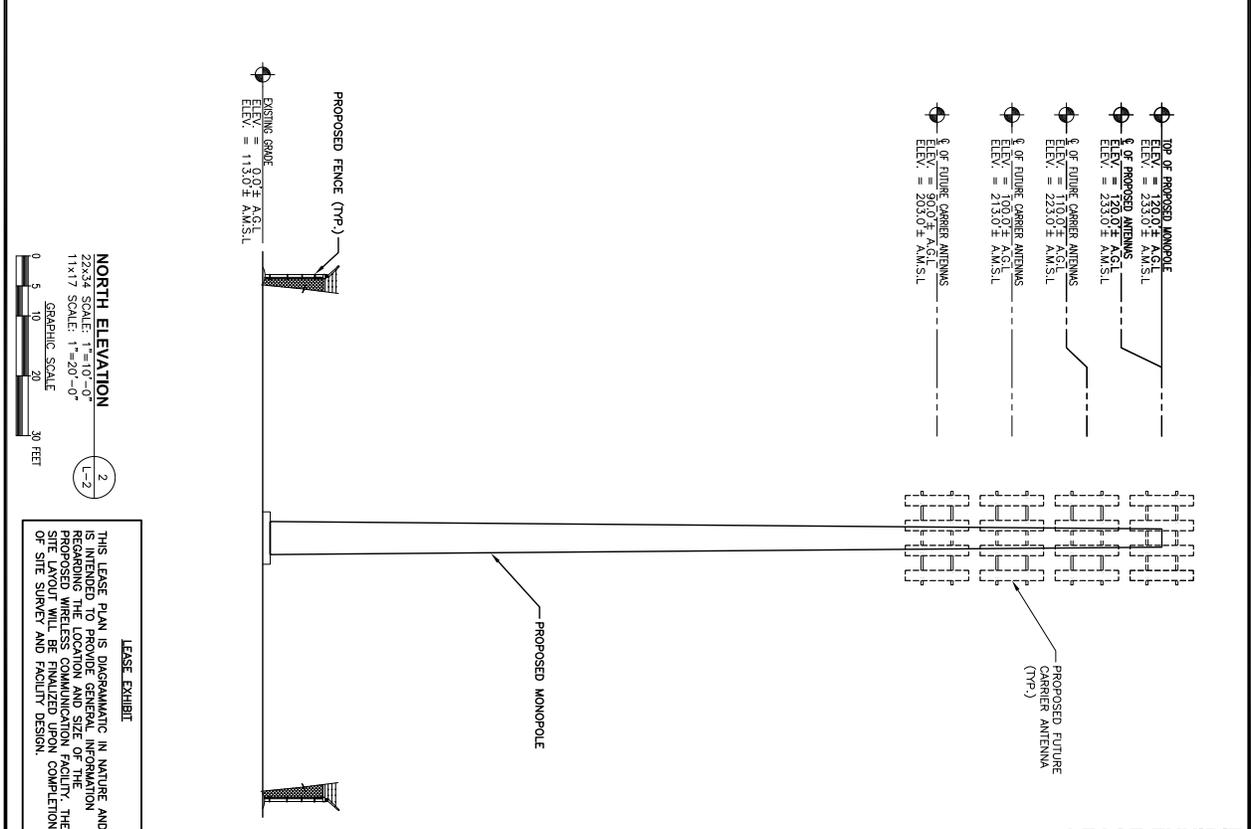
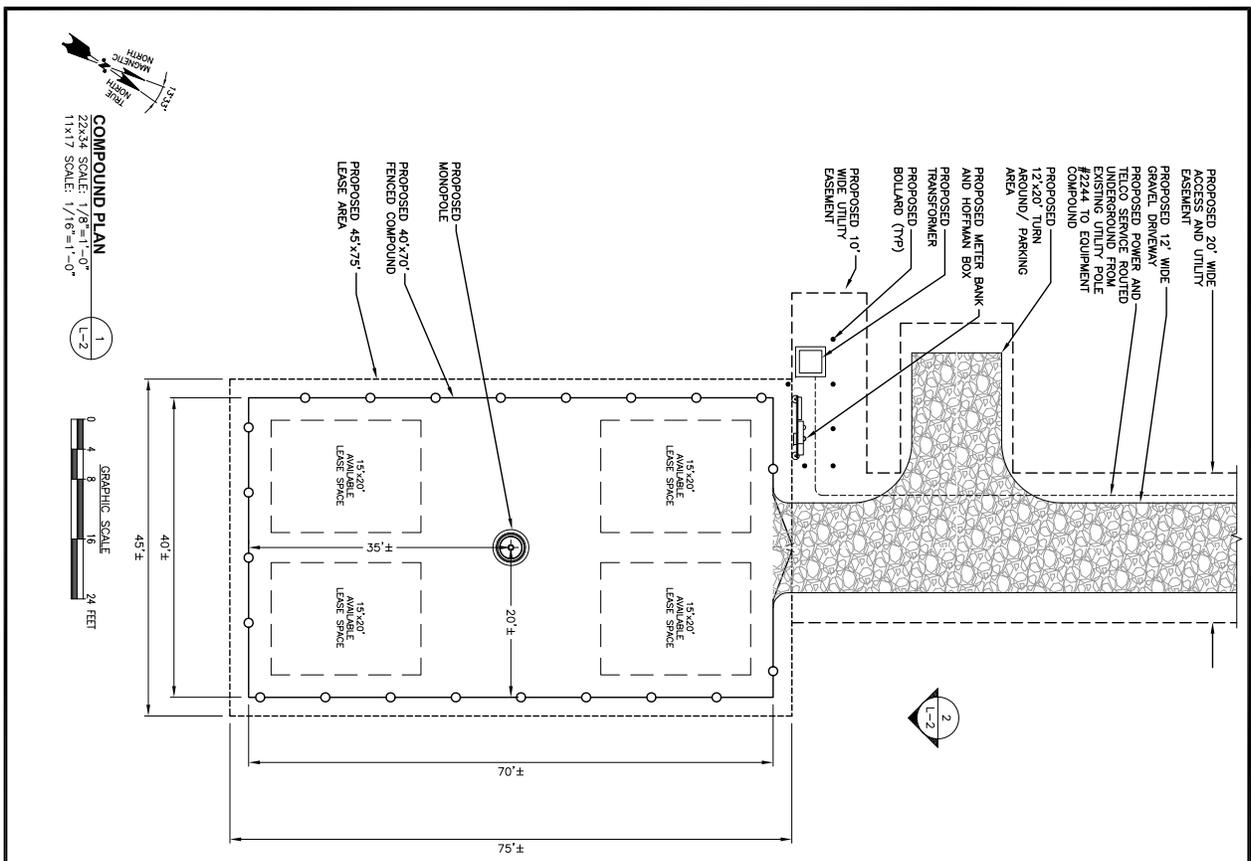
LEASE EXHIBIT
THIS LEASE PLAN IS DIAGNOSTIC IN NATURE AND INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF THE SURVEY AND FACILITY DESIGN.

LEGEND:
 - - - - - PROPERTY LINE - SUBJECT PARCEL
 - - - - - PROPERTY LINE - ADJACENTS
 - - - - - EXISTING BUILDING
 - - - - - WETLAND BOUNDARY LINE



LEASE EXHIBIT

<p>TARPOON TOWERS II, LLC 1001 34th AVENUE WEST, SUITE 400 BRADENTON, FL 34205</p>		<p>HUDSON Design Group LLC 1450 WASHINGTON DRIVE N. ANDOVER, MA 01860</p>																													
<p>SITE NAME: HAMDEN CT</p>		<p>CHECKED BY: DLR</p>																													
<p>SITE ADDRESS: 796 WOODIN STREET HAMDEN, CT 06514</p>		<p>APPROVED BY: DLR</p>																													
<p>SHEET TITLE: SITE PLAN</p>		<p>SUBMITTALS</p> <table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>5</td> <td>06/06/18</td> <td>ISSUED PER COMMENTS</td> <td>KAM</td> </tr> <tr> <td>4</td> <td>05/15/18</td> <td>ISSUED PER COMMENTS</td> <td>KAM</td> </tr> <tr> <td>3</td> <td>04/19/18</td> <td>ISSUED PER COMMENTS</td> <td>KAM</td> </tr> <tr> <td>2</td> <td>03/16/18</td> <td>ISSUED PER COMMENTS</td> <td>SKY</td> </tr> <tr> <td>1</td> <td>03/15/18</td> <td>ISSUED PER COMMENTS</td> <td>SKY</td> </tr> <tr> <td>0</td> <td>02/26/18</td> <td>ISSUED FOR REVIEW</td> <td>JS</td> </tr> </table>		REV.	DATE	DESCRIPTION	BY	5	06/06/18	ISSUED PER COMMENTS	KAM	4	05/15/18	ISSUED PER COMMENTS	KAM	3	04/19/18	ISSUED PER COMMENTS	KAM	2	03/16/18	ISSUED PER COMMENTS	SKY	1	03/15/18	ISSUED PER COMMENTS	SKY	0	02/26/18	ISSUED FOR REVIEW	JS
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<p>SHEET NUMBER: L-1</p>		<p>DATE:</p>																													



LEASE EXHIBIT

TARPOON TOWERS II, LLC
1001 3RD AVENUE WEST, SUITE 400
BRADENTON, FL 34205

HUDSON Design Group LLC
DESIGN/CONSTRUCT
N. ANDOVER, MA 01855
TEL: (978) 455-6535
FAX: (978) 536-6569

CHECKED BY: DLR
APPROVED BY: DLR

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
5	06/06/18	ISSUED PER COMMENTS	KAM
4	06/15/18	ISSUED PER COMMENTS	KAM
3	06/16/18	ISSUED PER COMMENTS	KAM
2	03/16/18	ISSUED PER COMMENTS	SKY
1	03/15/18	ISSUED PER COMMENTS	SKY
0	02/28/18	ISSUED FOR REVIEW	AS

SITE NAME: **HAMDEN CT**
SITE ADDRESS: **796 WOODIN STREET
HAMDEN, CT 06514**

SHEET TITLE: **COMPOUND PLAN**

SHEET NUMBER: **L-2**

THIS LEASE PLAN IS DIAGRAMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE PROPOSED FACILITY LOCATION AND FACILITY DESIGN OF THIS SURVEY AND FACILITY DESIGN.

COMPOUND PLAN

SHEET NUMBER: **L-2**

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 5 – Determination of Effect Attachments

You are required to provide two attachments regarding the Determination of Effect: Areas of Potential Effect and Mitigation of Effect (if applicable).

Areas of Potential Effect Guidelines:

Direct Effects

a. Describe the APE for direct effects and explain how this APE was determined.

The APE for Direct Effects is limited to the area of potential ground disturbance and any property, or any portion thereof, that will be physically altered or destroyed by the construction of the proposed telecommunications facility. Mr. Lucas Karmazinas, Architectural Historian with FuturePast Preservation, completed a field survey on February 21, 2018 and determined that the APE for Direct Effects is confined to the area of ground disturbance (proposed Tarpon Towers II, LLC access/utility and compound easements).

No Historic Properties¹ previously listed or formally deemed eligible for the National Register of Historic Places were identified within the APE for Direct Effects.

Visual Effects

b. Describe the APE for visual effects and explain how this APE was determined.

The APE for Visual Effects is the geographic area in which the Undertaking has the potential to introduce visual elements that diminish or alter the setting, including the landscape, where the setting is a character-defining feature of a Historic Property that makes it eligible for listing on the National Register. The Nationwide Programmatic Agreement governing new tower construction indicates that, unless otherwise established through consultation with the SHPO/THPO, the presumed APE for visual effects relative to the construction of new facilities is a) 0.5-mile radius for towers 200 feet or less in overall height, b) 0.75-mile radius for towers greater than 200 but no more than 400 feet in overall height; or, c) 1.5-mile radius for towers greater than 400 feet in overall height.

One (1) Historic Property previously listed or deemed eligible for the National Register of Historic Places was identified within the APE for Visual Effects. Despite the presence of this resource, the Heroes Tunnel, however, the proposed Undertaking would present No Adverse Effects on the historic property within the APE for Visual Effects. This is due to the fact that the proposed installation (a 120'-tall monopole with antennas) will not be visible from the resource and as a result will not impact its present visual setting and character, nor will it detract from the overall historic character and integrity of the tunnel. The proposed monopole will not be visible as it will be constructed on a heavily wooded parcel located more than 0.4-mile away from the Project Area, the latter situated on the side of an eastward facing slope that descends away from the Heroes Tunnel. Furthermore, heavy tree cover flanking the Wilbur Cross Parkway and covering the hillside into which the tunnel is built screens visibility from the resource towards the Project Area in all seasons.

¹ The Nationwide Programmatic Agreement defines a "Historic Property" as "Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or NHO that meet the National Register criteria."

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC

APT Project Number: CT445170

Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Mitigation of Effect Guidelines:

In the case where an Adverse Visual Effect or Adverse Direct Effect has been determined you must provide the following:

- 1. Copies of any correspondence and summaries of any oral communications with the SHPO/THPO and any consulting parties.*
- 2. As of the date of this report, there has been no correspondence with the SHPO/THPO. Describe any alternatives that have been considered that might avoid, minimize, or mitigate any adverse effects. Explain the Applicant's conclusion regarding the feasibility of each alternative.*

No negative effects are expected as a result of the proposed installation; therefore, alternatives that might avoid, minimize, or mitigate any adverse effects need not be considered. As such, as of the date of this report, there has been no correspondence with the SHPO/THPO regarding mitigation of effect.

As of the date of this report, All-Points Technology has not received comments from Indian Tribes, NHOs, local governments, or members of the public that identify Historic Properties in the APE for Visual Effects that are not listed in the above list of Historic Properties.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 6 – Historic Properties Attachment

You are required to provide two attachments regarding the Determination of Effect: Areas of Potential Effect and Mitigation of Effect (if applicable).

File reviews of the National Register Database, Connecticut State Historic Register, and Connecticut State Historic Resource Inventory were conducted by Lucas Karmazinas, architectural historian with FuturePast Preservation, and Mr. William Keegan, Historical Geographer & GIS Specialist, with Heritage Consultants, LLC, to identify Historic Properties within the APEs for Visual and Direct Effects. Mr. Karmazinas also completed an evaluation of NRHP eligibility, according to the NRHP criteria of eligibility (36 C.F.R. Part 63), for any additional properties identified within the APE for direct or visual effects that may not have been identified during a review of the aforementioned files. The results of these reviews are discussed below, as necessary.

A Phase I Cultural Resources Reconnaissance Survey prepared by Mr. David George, archaeologist with Heritage Consultants, LLC, on June 12, 2018, for All-Points Technology corporation, P.C. is also included with these attachments.

Historic Properties Identified within the APE for Direct Effects:

- 1. List all properties identified within the APE for direct effects.*
- 2. Provide the name and address (including U.S. Postal Service ZIP Code) of each property in the APE for direct effects, not listed in part “a”, that the Applicant considers to be eligible for listing in the National Register as a result of the Applicant’s research. For each such property, describe how it satisfies the criteria of eligibility (36 C.F.R. Part 63). For each property that was specifically considered and determined not to be eligible, describe why it does not satisfy the criteria of eligibility.*
- 3. Describe the techniques and the methodology, including any field survey, used to identify historic properties within the APE for direct effects. If no archeological field survey was performed, provide a report substantiating that: i) the depth of previous disturbance exceeds the proposed construction depth (excluding footings and other anchoring mechanisms) by at least 2 feet; or, ii) geomorphological evidence indicates that cultural resource-bearing soils do not occur within the project area or may occur but at depths that exceed 2 feet below the proposed construction depth.*

No Historic Properties were identified within the APE for Direct Effects.

Historic Properties Identified within the APE for Visual Effects:

- 1. Provide the name and address (including U.S. Postal Service ZIP Code) of each property in the APE for visual effects that is listed in the National Register, has been formally determined eligible for listing by the Keeper of the National Register, or is identified as considered eligible for listing in the records of the SHPO/THPO, pursuant to Section VI.D.1.a. of the Nationwide Agreement.6*
- 2. Provide the name and address (including U.S. Postal Service ZIP Code) of each Historic Property in the APE for visual effects, not listed in part “a”, identified through the comments of Indian Tribes, NHOs, local governments, or members of the public. Identify each individual or group whose comments led to the inclusion of a Historic Property in this attachment. For each such property, describe how it satisfies the criteria of eligibility (36 C.F.R. Part 63).*

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC

APT Project Number: CT445170

Project Location: 796 Woodin Street, Hamden, CT, 06514.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

3. *For any properties listed in part “a”, that the Applicant considers no longer eligible for inclusion in the National Register, explain the basis for this recommendation.*

One (1) Historic Property previously listed or deemed eligible for the National Register of Historic Places was identified within the APE for Visual Effects. This is the Heroes Tunnel, formerly known as the West Rock Tunnel, a 1,200'-long, horseshoe-shaped twin barrel tunnel completed in 1949 and determined eligible for listing on the National Register of Historic Places by the Connecticut State Historic Preservation Office on April 20, 2016.

No Adverse Effects are expected as a result of the proposed facility; therefore alternatives that might avoid, minimize, or mitigate any adverse effects need not be considered.

As of the date of this report, All-Points Technology has not received comments from Indian Tribes, NHOs, local governments, or members of the public that identify Historic Properties in the APE for visual effects that are not listed in the above list of Historic Properties.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.



April 20, 2016

Mr. Mark McMillan
Office of Environmental Planning
Department of Transportation
2800 Berlin Turnpike
Newington, CT 06111

Subject: Heroes Tunnel Rehabilitation (Project No. 167-108)
Route 15 through West Rock Ridge
Woodbridge and New Haven, Connecticut

Dear Mr. McMillan:

The State Historic Preservation Office (SHPO) has examined your review regarding potential effects to historic properties for the referenced project. SHPO understands that the Department of Transportation (DOT) plans to rehabilitate Heroes Tunnel; preliminary design plans for the preferred alternative include boring a third tunnel, rehabilitating the extant northbound tunnel in its current configuration, and rehabilitating and widening the extant southbound tunnel. The Office of Environmental Planning (OEP) at DOT completed the submitted review regarding potential project effects to historic properties during February of 2016 pursuant to the National Historic Preservation Act of 1966.

According to information maintained by the DOT, the tunnel was constructed between 1948 and 1949. SHPO concurs with OEP's conclusion that the tunnel possesses the qualities of significance for listing on the National Register of Historic Places as both a contributing element to the Wilbur Cross Parkway and as an individual property. SHPO also concurs with OEP's recommendation for a Phase I Archaeological Reconnaissance Survey of areas that might be impacted by the proposed third tunnel. All archaeological investigations should be completed in accordance with SHPO's *Environmental Review Primer for Connecticut's Archaeological Resources*. No alterations or ground disturbing activities should be initiated until SHPO has had an opportunity to review and comment upon the recommended survey.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact me at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Catherine Labadia
Deputy State Historic Preservation Officer



INTEGRATED HISTORIC PRESERVATION PLANNING

June 12, 2018

Ms. Ellen Gustafson
All-Points Technology Corporation
3 Saddlebrook Drive
Killingworth, Connecticut 06419

RE: Preliminary Archaeological Assessment of a Proposed Telecommunications Facility Located at 796 Woodin Street, Hamden, Connecticut

Ms. Gustafson:

Heritage Consultants, LLC (Heritage), is pleased to have this opportunity to provide All-Points Technology Corporation (All-Points) with the following preliminary archaeological assessment of a proposed telecommunications facility located at 796 Woodin Street in the town of Hamden, Connecticut (Figure 1). This document represents a revised version of the original report, which was submitted on January 16, 2018. The current project entailed completion of a cultural resources summary based on the examination of data obtained from the Connecticut State Historic Preservation Office (CT-SHPO), as well as GIS data, including historical mapping, aerial photographs, and topographic quadrangles, maintained by Heritage. This investigation is based upon project location information provided to by All-Points. The objectives of this study were to gather and present data regarding previously identified cultural resources situated within 0.8 km (0.5 mi) of the proposed project area and to investigate the proposed project parcel in terms of its natural and historical characteristics so that the need for completing additional cultural resources investigations could be evaluated.

The proposed cell tower is situated in a wooded area located to the south of Woodin Street and to the east of the Wilbur Cross Parkway. The location for the proposed facility remains the same as in the January report mentioned above; however, the new alignment of the proposed access road, which was examined for current effort, is situated further to the east and in the vicinity of the Wilbur Cross Parkway. The proposed monopole will be located towards the rear or southern portion of a residential lot that contains a house (#796) facing Woodin Street to the north. The property contains several outbuildings, a horse pen, and several horses. A root cellar structure made of earth and concrete is visible to the east of the house and is located just east of the proposed access road. The landform is visibly rocky and gradually slopes to the south toward a stream gully. Lake Wintergreen is located less than 600 m (2,000 ft) to the northwest of the proposed project area. In addition, several streams are located near the project area, including Wintergreen Brook, which drains out of Lake Wintergreen, and Belden Brook. Wintergreen Brook lies within 150 m (500 ft) to the south of the project area and Belden Brook lies within 600 m (2,000 ft) to the east. The property is bound by the Wilbur Cross Parkway to the west.

A review of historic maps, aerial photographs, and topographic quadrangles depicting the proposed project area show that the road network in the region was well developed by the mid to late nineteenth century. The east-to-west alignment of Woodin Street appears to be in place in both the 1856 and 1868 historic maps (Figure 2 and Figure 3). Both maps show the “Mrs. G. Gaylord” residence on Woodin

Street as the structure closest to the current project area. Both maps also show the V. Wooding residence located north of the proposed project area. It is not known if the structures related to the Wooding and Gaylord families, as seen in the 1856 and 1868 historic maps, are still in existence; they are not listed in the National Register and they are located far enough away from the current project area that they will not be impacted.

An aerial map dating to 1934 shows the area immediately around the project area containing large agricultural fields and very little development (Figure 4). Of note, is the absence of the Wilbur Cross Parkway alignment. Planning of the Wilbur Cross Parkway did not begin until 1938. The Wilbur Cross Parkway was constructed as a northeast extension of the Wilbur Cross Parkway and begins at the Sikorsky Bridge where it crosses the Housatonic River. The Merritt Parkway extends to the Berlin Turnpike in Meriden. Roughly 750 m (2 500 ft) to the southwest of the project area, the Wilbur Cross Parkway passes through the West Rock Tunnel located in the Town of Woodbridge. The tunnel extends for a distance of roughly 350 m (1,200 ft) through a sandstone ridge and is the only tunnel that runs through a natural obstacle in the State of Connecticut. The tunnel was renamed “Heroes Tunnel” in 2003 by the State of Connecticut to honor first responders.

A 1951 aerial photograph of the proposed project area shows the Wilbur Cross Parkway alignment in place, as well as the Woodin Street bridge crossing (Figure 5). By 1951, the agricultural fields located to the east of the project area appear to be undergoing development. By 1970, a community development appears to be in place (Figure 6). Little change in the vicinity of the project area is noted for the period between 1970 and 1990 (Figure 7). By 2016, a community located just east of the proposed project area appears to have diminished in size (Figure 8). No other significant changes to the project area are noted and it appears that the parcel containing the proposed facility has not changed significantly since the mid twentieth century.

Background research for the current project also involved a review of previously identified archaeological sites in the general vicinity of the current project area. For this report, only sites located within a 0.8 km (0.5 mi) radius of the project area will be discussed. A digital map showing the location of previously identified archaeological sites near the project area show Site 93-16 located within a 0.8 km (0.5 mi) radius of the proposed project area (Figure 9). The site was reported by Dr. Cosimo Sgarlata in 1997 and it consists of a concentration of lithic debitage collected across a 15 m (45 ft) square area. The artifacts were reportedly found on the surface, and on a trail leading up to a flat area atop West Rock Ridge in the City of New Haven. The artifacts were reportedly believed to have washed down slope from above through colluvial action. The site was reported as most likely dating to the Archaic Period (10,000-2700 B.P.). Site 93-16 will not be impacted by the current proposed project.

A digital map showing the locations of previously identified National Register of Historic properties show no National Register properties located within a 0.8 km (0.5 mi) radius of the project area (Figure 10). In addition, the review of historic maps showed no historic dwellings located inside the proposed project boundaries.

Soils located within the project area are described as Ludlow Silt Loam (40B) occurring on 3 to 8 percent slopes (Figure 11). The Ludlow series is described as moderately well drained soils formed in loamy lodgment till. They are very deep to bedrock and moderately deep to a densic contact. They are nearly level to strongly sloping soils on till plains, hills, and drumlins. Slope ranges from 0 to 15 percent. Saturated hydraulic conductivity is moderately high or high in the solum and low to moderately high in the substratum. Mean annual temperature is about 50 degrees F., and mean annual precipitation is about 47 inches. A typical soil profile in this area is as follows: Ap--0 to 8 inches; dark brown (7.5YR 3/2) silt

loam, pinkish gray (7.5YR 6/2) dry; weak coarse granular structure; friable; many fine roots; 8 percent gravel; strongly acid; clear wavy boundary; Bw1--8 to 20 inches; reddish brown (5YR 4/4) silt loam; weak coarse subangular blocky structure; friable; few fine roots; 10 percent gravel; strongly acid; gradual wavy boundary; Bw2--20 to 26 inches; dark reddish brown (5YR 3/4) silt loam; weak coarse subangular blocky structure; friable; few fine roots; 12 percent gravel; common medium distinct pinkish gray (5YR 6/2) iron depletions and common medium prominent strong brown (7.5YR 5/8) masses of iron concentration; strongly acid; clear wavy boundary; Cd--26 to 65 inches; dark reddish brown (2.5YR 3/4) gravelly loam; weak thick platy structure; very firm, brittle; thin patchy silt films and black (10YR 2/1) manganese coatings on some plates; 20 percent gravel and cobbles; few fine distinct reddish gray (5YR 5/2) iron depletions; strongly acid.

Pedestrian survey of the project area was initially completed on January 15, 2018 and then again on June 11, 2018. The latter effort included photo-documentation of the proposed new alignment for the access road and utility easement, as well as supplementary photos of the lease area (Figure 12, Photographs 1 through 8). The pedestrian survey revealed that the project area, including the revised access road alignment, will be built in an area that is very rocky and poorly drained. Further, the new access road alignment, which is covered in dense vegetation for the most part, is located in an area that contains significantly disturbed soils related to the previous construction of the Wilbur Cross, Parkway, which is located not far to the east. A review of data collected from the archives at the CT-SHPO and the pedestrian walkover, as well as archival data maintained by Heritage, revealed that the proposed project area maintains a no/low probability to contain significant cultural resources. As a result, it is the professional opinion of Heritage that the area proposed to contain the lease area, access road and utility easement does not retain the potential to yield intact cultural deposits, and no additional archaeological research of this area is recommended.

If you have any questions regarding this Technical Memorandum, or if we may be of additional assistance with this or any other projects you may have, please do not hesitate to call us at 860-667-3001 or email us info@heritage-consultants.com. We are at your service.

Sincerely,



David R. George, M.A., R.P.A.

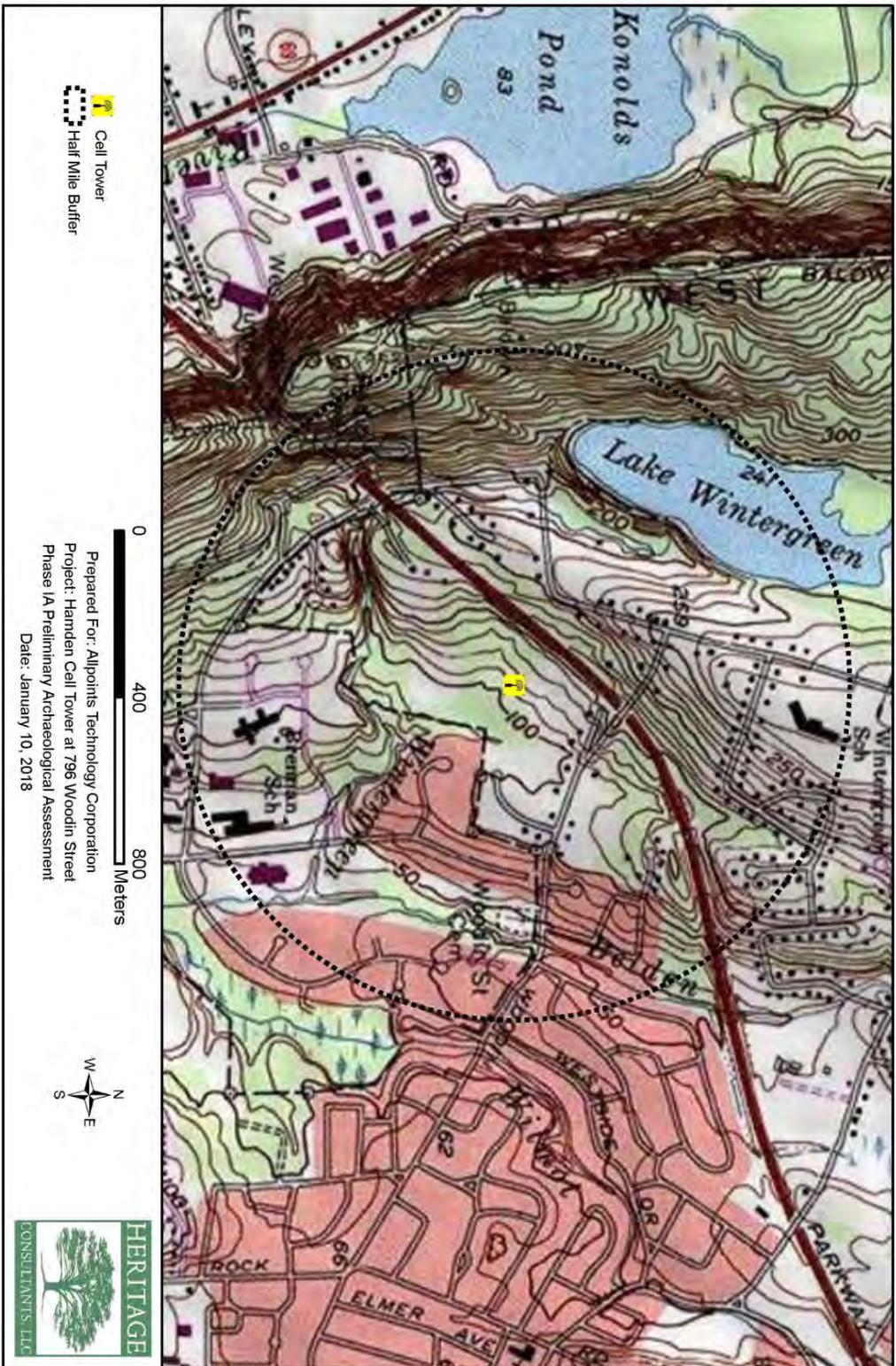


Figure 1. Excerpt from a USGS 7.5' series topographic quadrangle image showing the location of the proposed telecommunication facility in Hamden, Connecticut.

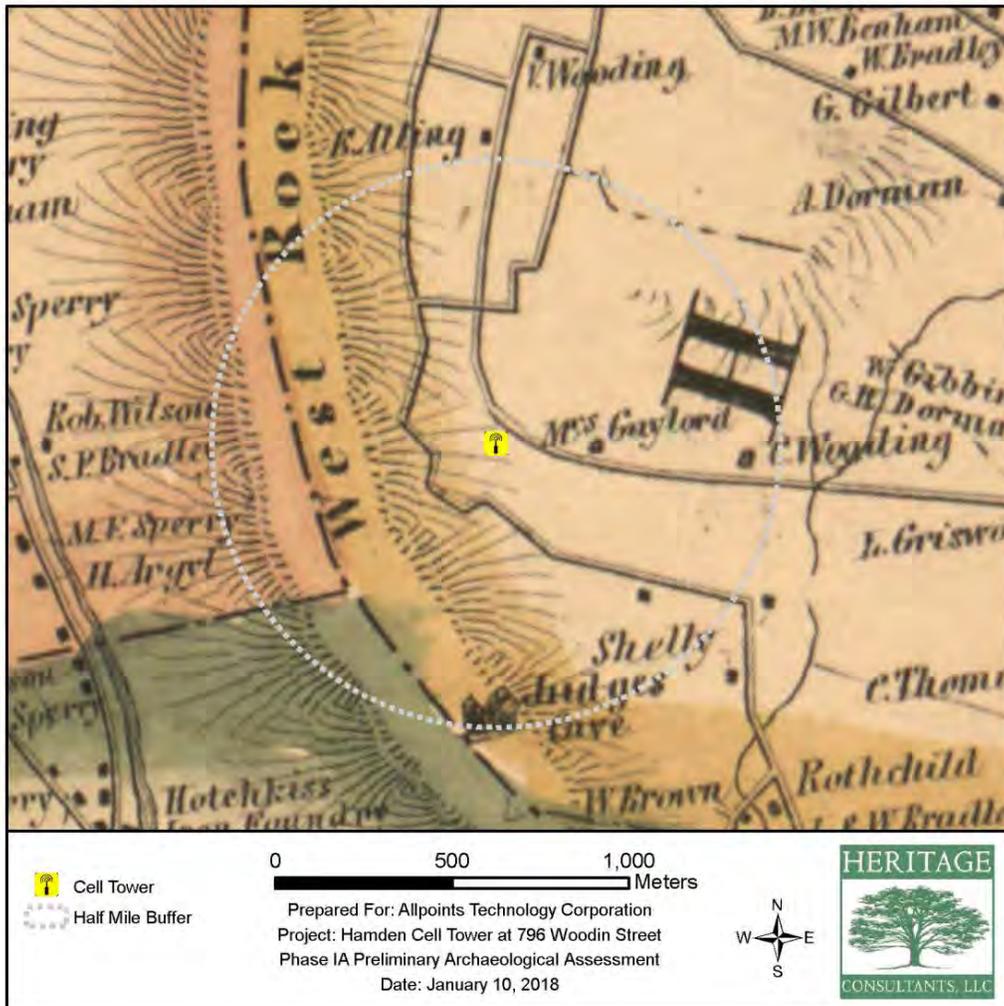


Figure 2. Excerpt from an 1856 historic map showing the location of the proposed telecommunications facility in Hamden, Connecticut.

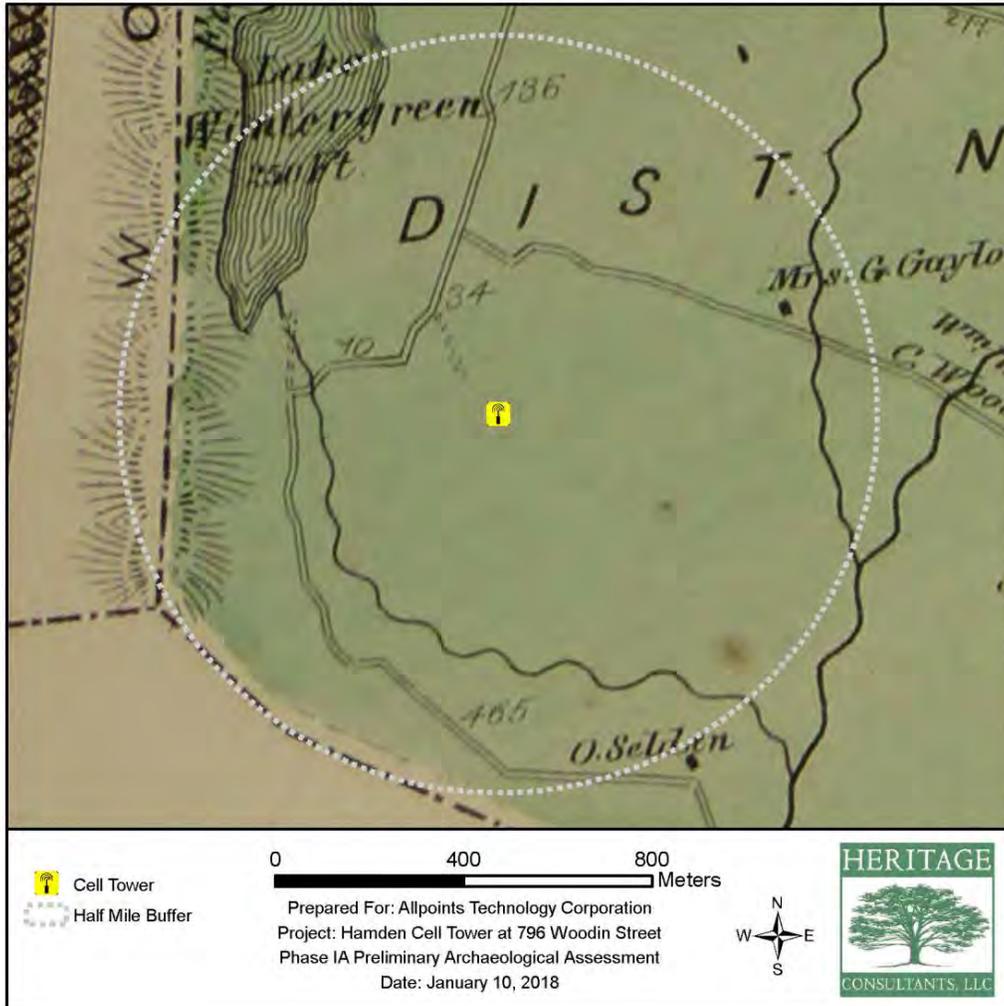


Figure 3. Excerpt from an 1868 historic map showing the location of the proposed telecommunications facility in Hamden, Connecticut.

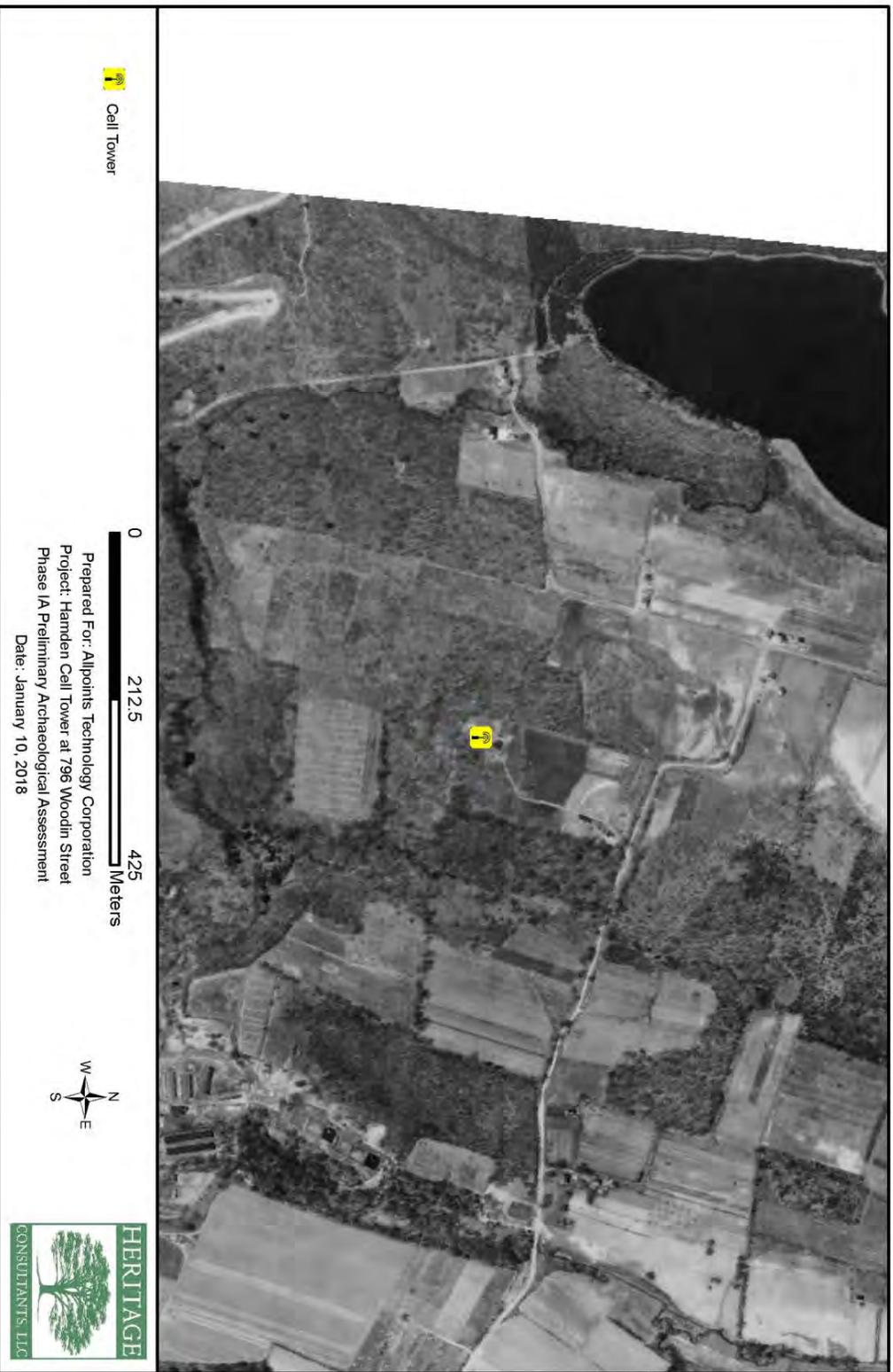


Figure 4. Excerpt from a 1934 aerial photograph showing the location of the proposed telecommunications facility in Hamden, Connecticut.

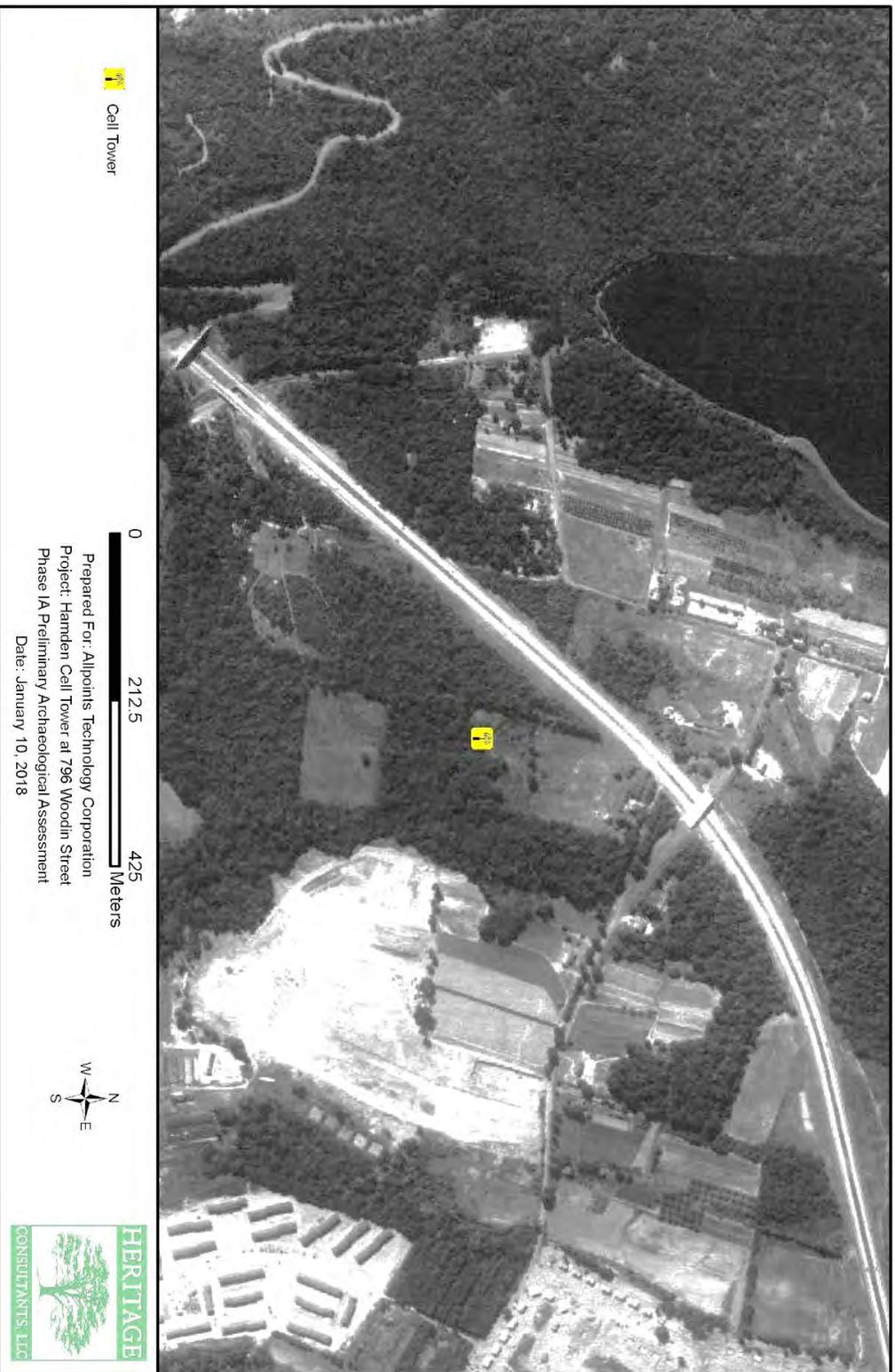


Figure 5. Excerpt from a 1951 aerial photograph showing the location of the proposed telecommunications facility in Hamden, Connecticut.



Figure 6. Excerpt from a 1970 aerial photograph showing the location of the proposed telecommunications facility in Hamden, Connecticut.



Figure 7. Excerpt from a 1990 aerial photograph showing the location of the proposed telecommunications facility in Hamden, Connecticut.

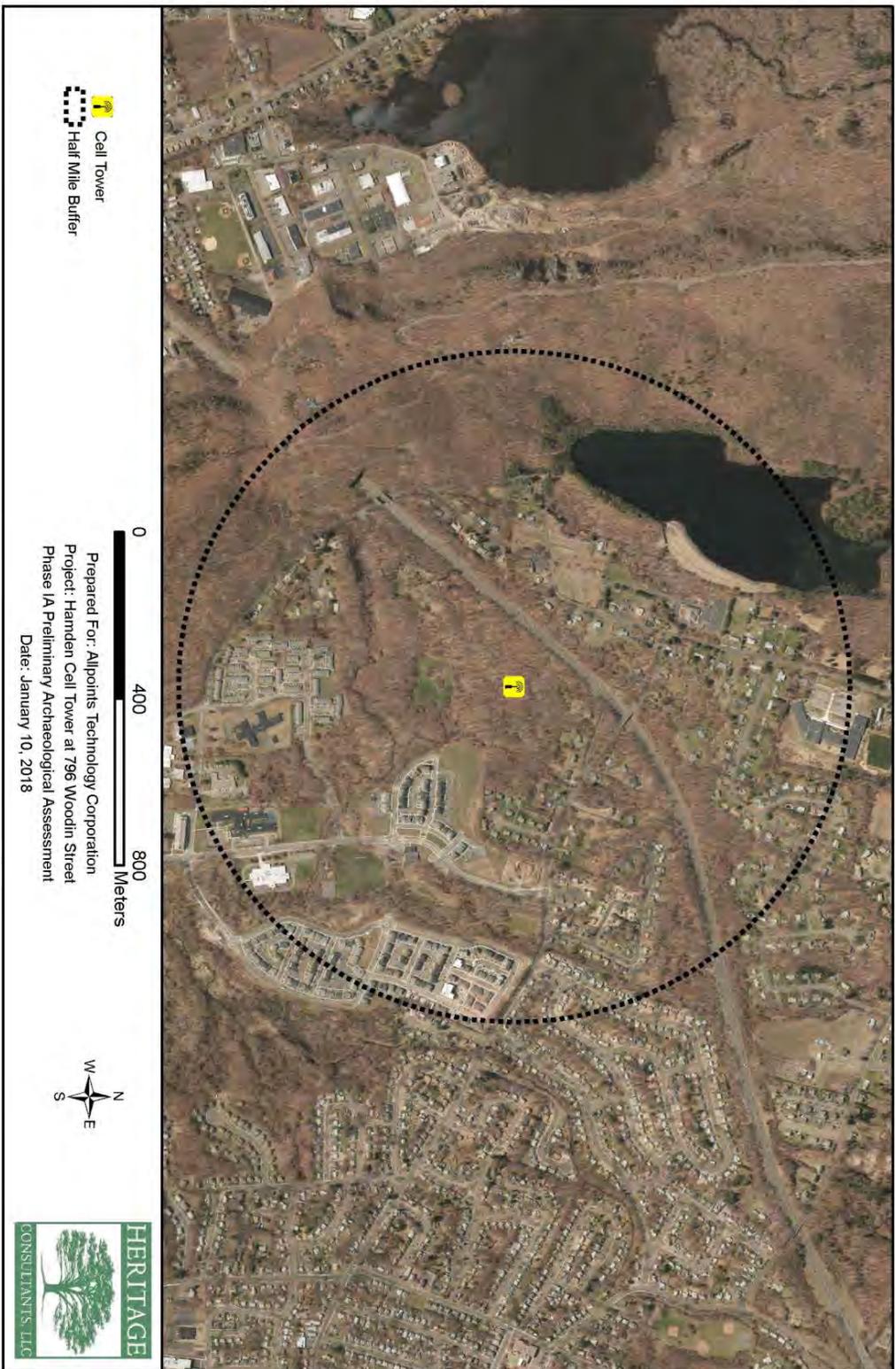


Figure 8. Excerpt from a 2016 aerial photograph showing the location of the proposed telecommunications facility in Hamden, Connecticut.

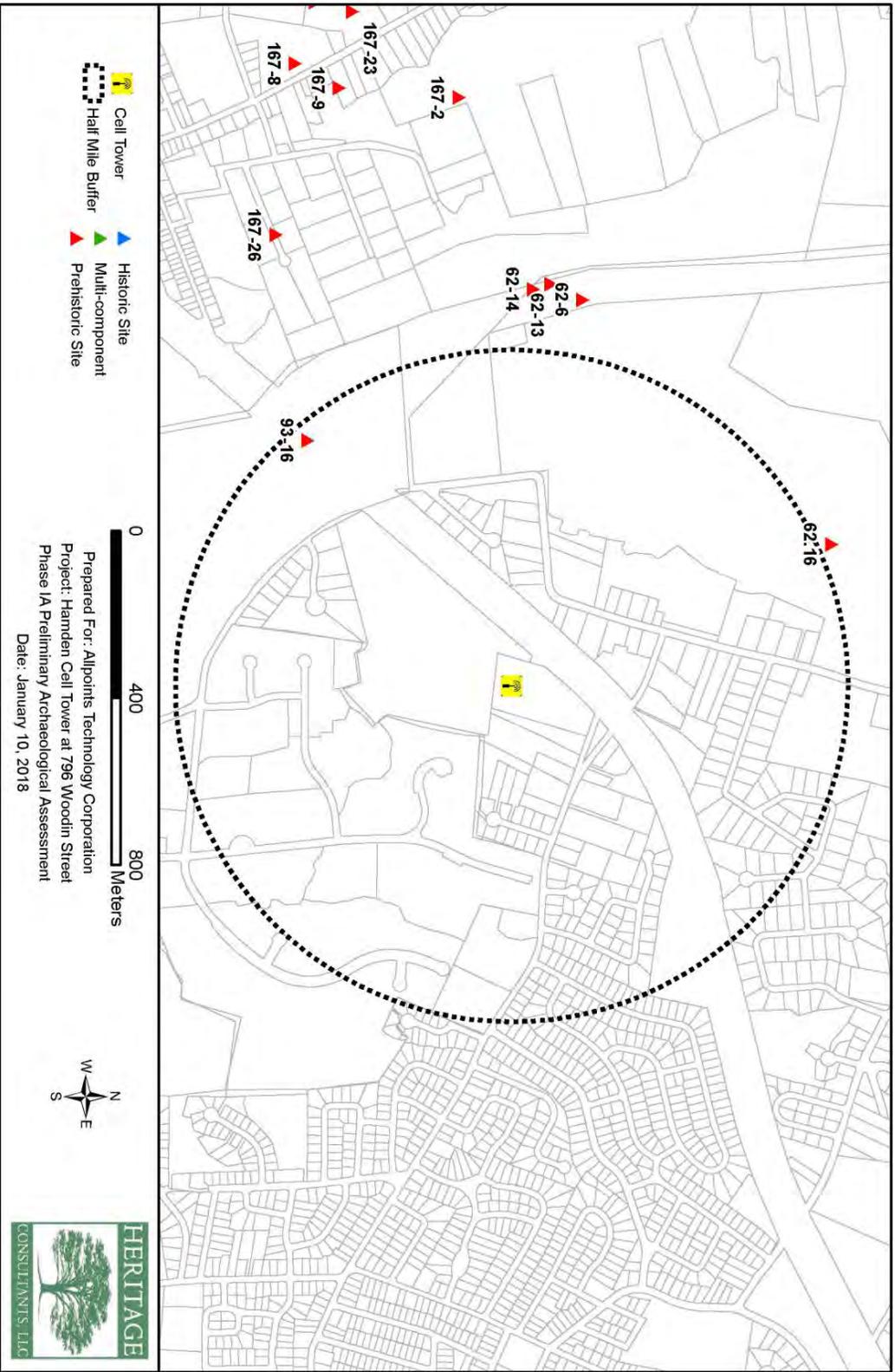


Figure 9. Digital map showing the location of previously identified archaeological sites in the vicinity of the proposed telecommunications facility in Hamden, Connecticut.

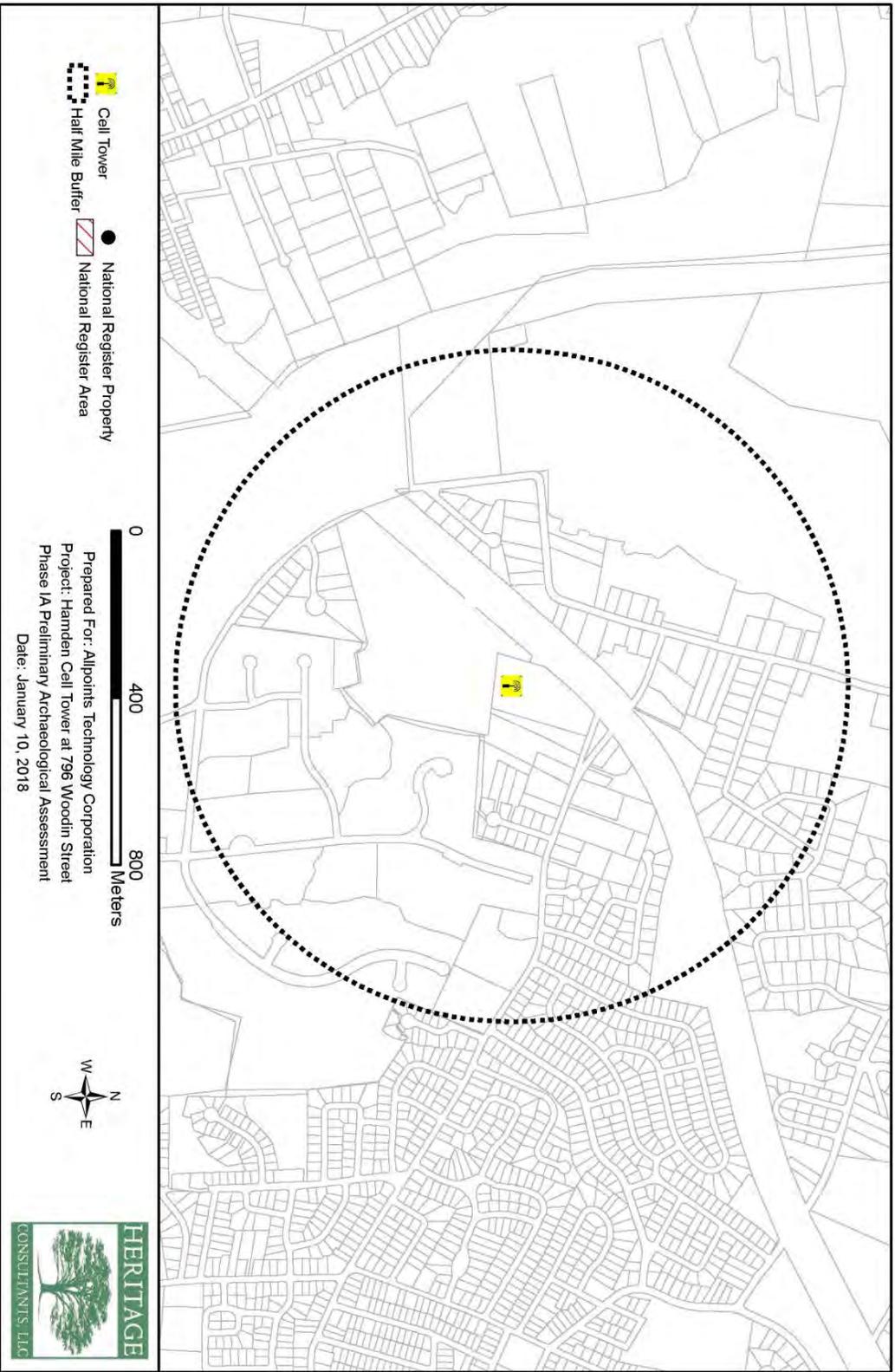


Figure 10. Digital map depicting the locations of previously identified National Register of Historic Places properties in the vicinity of the proposed telecommunications facility in Hamden, Connecticut.

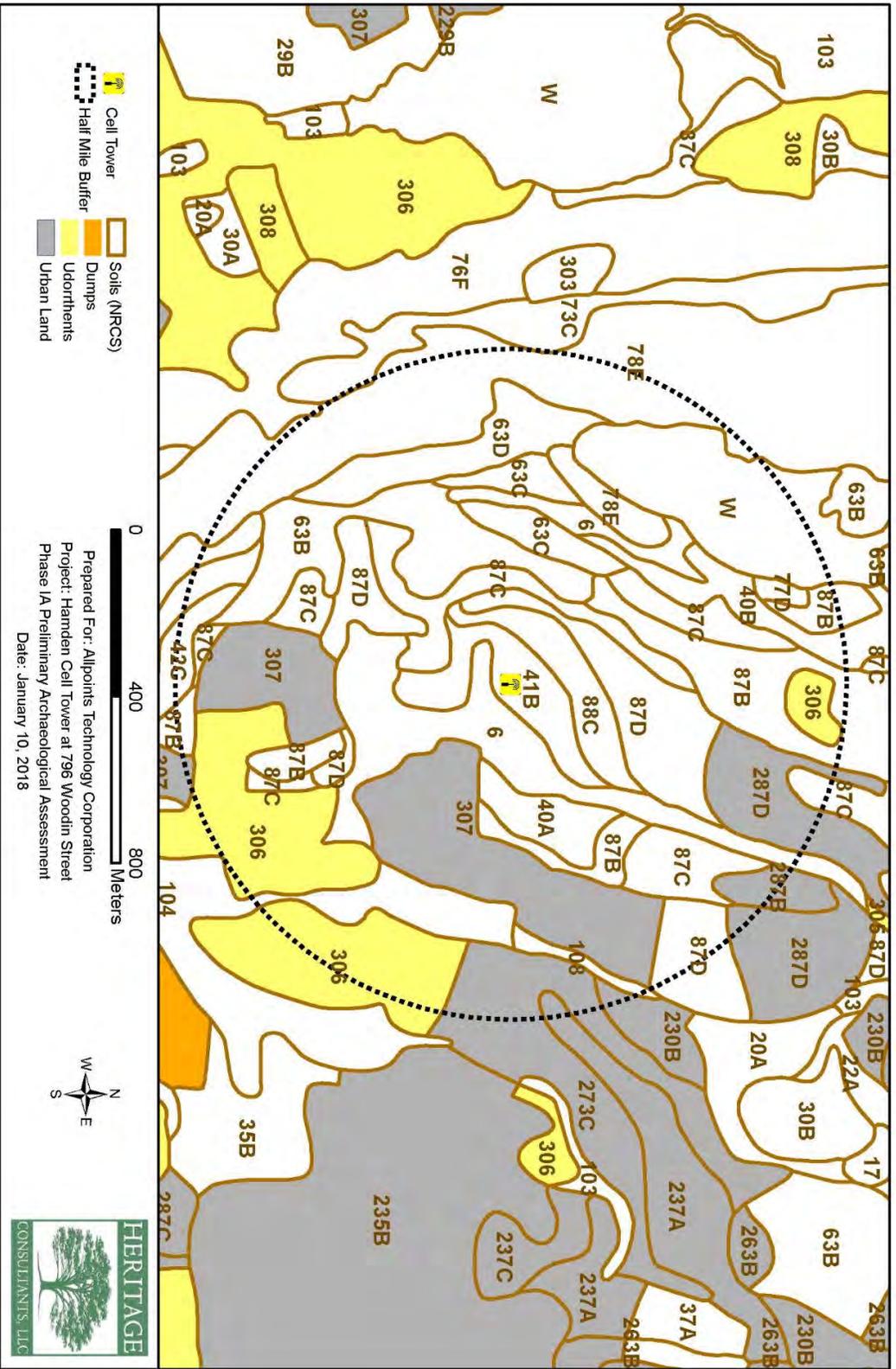


Figure 11. Digital map depicting the soil types present in the vicinity of proposed telecommunications facility in Handen, Connecticut.

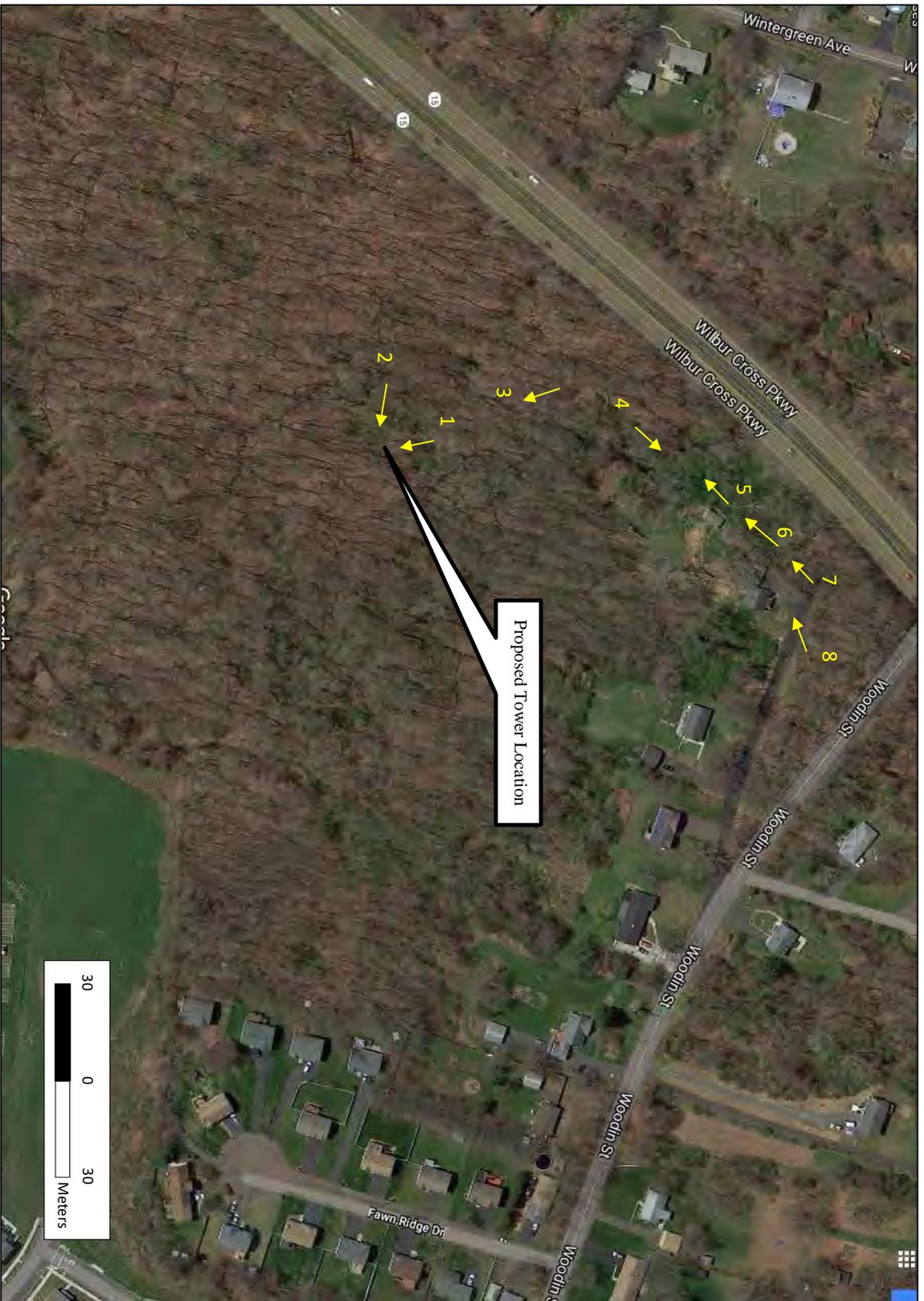


Figure 12. Excerpt from a 2016 aerial depicting the locations and directions of photos of the proposed telecommunications facility in Hamden, Connecticut.

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 7 – Tribal and NHO Involvement

At an early stage in the planning process, the Nationwide Agreement requires the Applicant to gather information from appropriate Indian Tribes or Native Hawaiian Organizations (NHOs) to assist in the identification of Historic Properties of religious and cultural significance to them. Describe measures taken to identify Indian tribes and NHOs that may attach religious and cultural significance to Historic Properties that may be affected by the collocation within the Areas of Potential Effects (APE) for direct and visual effects. If such Indian tribes or NHOs were identified, list them and provide a summary of contacts by either the FCC, the Applicant, or the Applicant's representative. Provide copies of relevant documents, including correspondence. If no such Indian tribes or NHOs were identified, please explain.

All-Points Technology Corporation, P.C. completed the Tower Construction Notification System (TCNS) on June 8, 2018. The attached FCC Notification email lists the Tribes identified through the TCNS process. Follow up correspondence, when necessary, will be completed via the methods listed on the attached email considered acceptable to each Tribe.

Applicant: Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC
APT Project Number: CT445170
Project Location: 796 Woodin Street, Hamden, CT, 06514.

From: towernotifyinfo@fcc.gov
To: [Ellen Gustafson](mailto:Ellen.Gustafson)
Cc: tcnswweekly@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #5831268
Date: Friday, June 15, 2018 3:05:48 AM

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribal Nations"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribal Nations and NHOs and in making further contacts, the City and State of the Seat of Government for each Tribal Nation and NHO, as well as the designated contact person, is included in the listing below. We note that Tribal Nations may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribal Nations and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribal Nation or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribal Nations and NHOs. If a Tribal Nation or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribal Nation or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event a Tribal Nation or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribal Nation or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Deputy THPO Michael K Johnson - Mashantucket Pequot Tribe - 110 Pequot Trail (PO Box: 3060)
Mashantucket, CT - mejohanson@mptn-nsn.gov; mturnbull@mptn-nsn.gov - 860-396-7575
Details: The Mashantucket Pequot Tribal Nation will charge a \$500.00 research fee for all proposed Cell Tower projects and, as of Monday, May 26, 2014, will also charge a \$500.00 research fee for all Positive Train Control (PTC) projects.

Please make your check payable to the "Mashantucket Pequot Tribal Nation," and mail to:

Mr. Michael Kickingbear Johnson, Deputy THPO
Mashantucket Pequot Tribal Historic Preservation Office
110 Pequot Trail
Mashantucket, CT 06338
Mashantucket, CT06338-3180

For every proposed cell tower project, and for every Positive Train Control (PTC) project, the Mashantucket Pequot Tribal Nation requires a site location map, information regarding project ground disturbance, site plans and a detailed description of the proposed site and project & a copy of any archaeology surveys completed - If the proposed project is to be located on an already existing building, we would like to be informed of that as well. The project information can accompany your check in hard copy form, or the project details may be sent electronically via E-mail. We do not process electronic checks.

After we have received the research fee, we will commence our research & review of the proposed cell tower project, and/or the Positive Train Control (PTC) project & make every effort to respond to you within thirty days.

Michael Kickingbear Johnson, Deputy THPO
Mashantucket Pequot Tribal Historic Preservation Office
MEJohnson@mptn-nsn.gov
860-396-7575

If the applicant/tower builder receives no response from the Mashantucket Pequot Tribe within 30 days after notification through TCNS, the Mashantucket Pequot Tribe has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Mashantucket Pequot Tribe in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

2. Deputy THPO Elaine Thomas - Mohegan Indian Tribe - Cultural and Community Programs Dept 13 Crow Hill Road Uncasville, CT - ethomas@moheganmail.com - 860-862-6393
Details: The Mohegan Indian Tribe of Connecticut has an interest in all Cell Tower Projects and Positive Train Control Projects that are within the State of Connecticut.

Beginning May 26, 2014 The Mohegan Indian Tribe of Connecticut will charge a \$500.00 research fee per all proposed Cell Tower Projects and Positive Train Control Projects that are within the State of Connecticut. After we have received the research fee, we will commence our research of the proposed Project. The Mohegan Tribe is interested in all notifications of proposed Cell Tower Projects and Positive Train Control Projects that are within the State of Connecticut and will respond to all notifications.

Please make checks payable to The Mohegan THPO, and include, 4990-0300, AA code 52, on all checks along with the TCNS#. Please send checks to: The Mohegan THPO c/o James Quinn, 13 Crow Hill Road, Uncasville, CT 06382.

3. Program Manager Sequahna Mars - Narragansett Indian Tribe - (PO Box: 350) Wyoming, RI - Sequahna@yahoo.com; Nithpotcns@gmail.com - 401-419-2959
Details: NITHPO respectfully requests that additional contacts following initial TCNS notification be made via e-mail to Sequahna Mars, at Sequahna@yahoo.com.

NITHPO respectfully requests a site map (digital if possible) and photographs for all projects that involve ground disturbance.

Please note that NITHPO's current review fees are as follows:

For projects in which there is to be no ground disturbance the review fee is \$500.

For ALL projects which include ground disturbance, the review fees \$1000.

If the applicant/tower builder receives no response from the Narragansett Indian Tribe within 30 days after notification through TCNS, the Narragansett Indian Tribe has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Narragansett Indian Tribe in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

4. THPO Gary Loonsfoot Jr - Keweenaw Bay Indian Community - 16429 Beartown Road . Baraga, MI - gloonsfoot@kbic-nsn.gov - 906-353-4278

Details: The KBIC THPO reviews all projects within historic homelands for the presence of cultural resources with significance to the Anishinaabe. Your request will go through a preliminary review by our THPO/NAGPRA Technician, the review consists of relevant studies submitted by the applicant regarding cultural resources documentation, in house literature search, database search and GIS search for further information. If any cultural resources are identified during this process, the file will be turned over to the Tribal Historic Preservation Officer in order to make a determination of effects.

Information required in order to complete this process are as follows:

Project Name

Project Location

Physical Address

Latitude and Longitude

State, County, Township, Range, Section quarters

Brief Project Description

Existing studies for archaeological sites, and cultural resources.

As of June 22,2018 the KBIC THPO will be charging a fee of \$750.00 per review/collocation unless the review covers more than one section of land in which case the fee is \$750.00 per section. Fees in this process cover the research and other activities required to provide you with a timely response so your project can stay on track. Please submit payment of \$750.00 for each project application submitted, checks should be made payable to KBIC THPO, 16429 Beartown Road, Baraga, Michigan 49908. Any questions can be directed to: Gary Loonsfoot Jr via email gloonsfoot@kbic-nsn.gov, or by phone: 906-353-6623 ext. 4108. (Please note that Minogheezhig Sandman-Shelifoe is no longer a contact within the KBIC-THPO office)

5. THPO and NAGPRA Representative Daisy McGeshick Ms - Lac Vieux Desert Band of Lake Superior Chippewa Indians - E23857 Poplar Circle (PO Box: 249) Watersmeet, MI - daisy.mcgeshick@lvtribal.com - 906-

358-0137

Details: Effective January 2016

ELECTRONIC TRANSFER OF MATERIALS - The Lac Vieux Desert Band of Lake Superior Chippewa (Getegitigaaning Ojibwe Nation) will go paperless.

To enable us to participate fully, Lac Vieux Desert (Getegitigaaning Ojibwe Nation) fee for such services is \$500. The fee must be submitted so that the research can be done. This will be the only item received in our office via regular USPS mail or other appropriate carriers.

At that time we will review and make our determinations with the appropriate information that we have on file with our Tribe pertaining to this area and an email response will go to the designated person at that agency.

All Collocation Projects will be handled in the same manner as new projects UNLESS the Getegitigaaning Ojibwe Nation commented on the original project.

The following information shall be emailed for each project to daisy.mcgeschick@lvdtribal.com. The information must contain summary of the proposed ground disturbing activity, legal description of the Area of Potential Effects, (APE), Topo maps identifying the proposed area, and copies of any studies that have already been conducted regarding cultural resources and archaeology in their full format, including reports on archaeological and cultural sites identified to the email address below. All responses and tower project closures will be emailed back to the appropriate contact person for your agency.

Should you have any questions, please feel free to contact me at 906-358-0137.

Miigwetch,

Daisy McGeshick, THPO

Fee can be sent along with the requested information to:

Make Check Payable to:

Getegitigaaning Ojibwe Nation THPO

P.O. 249

Watersmeet, Michigan 49969

Office: 906-358-0137

Fax: 906-358-4850 Email: daisy.mcgeschick@lvdtribal.com

6. THPO Edith Leoso - Bad River Band of Lake Superior Tribe of Chippewa Indians - (PO Box: 39) Odanah, WI - thpo@badriver-nsn.gov; THPOAsst@badriver-nsn.gov - 715-682-7123

Details: The Bad River Tribe is interested in projects with ground disturbance, only. This includes projects on previously disturbed soils.

The Bad River Tribe's fee to process requests is \$650.00 per request.

The Bad River Tribe shows no interest after 30 days of no response.

If the applicant/tower builder receives no response from the Bad River Band of Lake Superior Tribe of Chippewa Indians within 30 days after notification through TCNS, the Bad River Band of Lake Superior Tribe of Chippewa Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Bad River Band of Lake Superior Tribe of Chippewa Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

7. Assistant-THPO Joseph Montano - Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin - 88385 Pike Road, HWY 13 Bayfield, WI - Joe.Montano@redcliff-nsn.gov; Marvin.Defoe@redcliff-nsn.gov - 715-779-3700 (ext: 4243)

Details: Thank you for consulting with the Red Cliff Band of Lake Superior Chippewa. Please use our TCNS consultation website (<https://redcliff-nsn.tcnsportal.com/>), provided by TCNS Portal. There is NOT a system fee to submit projects through our site. The Red Cliff \$800 consulting fees still apply. The site provides a streamlined approach making it easier and faster to upload the requested information as well as receive responses in a timelier manner. More information can be found <https://redcliff-nsn.tcnsportal.com/Home/PoliciesAndProcedures>.

Account Setup

If you have not received an invite to setup an account or have not previously setup an account, request one at <https://redcliff-nsn.tcnsportal.com/Home/Signup>. You will receive an email once your account has been approved.

Project Submission

Once your account has been approved, submit one or more projects for review by following these steps:

1. Login to the site at <https://redcliff-nsn.tcnsportal.com/Home/Login>.
2. Click the Add Tower button in the upper left side of the screen.
3. Input the TCNS number, select the appropriate Tower Type, and click the Next button.
4. Input and upload all of the requested information. When ready to submit the project for review, proceed to the Cart.
5. From the Cart, select one or more projects to submit, and click the Submit button.

Additional Information

The following information is provided for your reference:

1. Policies and Procedures (<https://redcliff-nsn.tcnsportal.com/Home/PoliciesAndProcedures>)
2. Geographical Areas of Interest (<https://redcliff-nsn.tcnsportal.com/Home/CountyList>)
3. Frequently Asked Questions (<https://redcliff-nsn.tcnsportal.com/Home/FAQHelp>)
4. Section 106 Help (<https://redcliff-nsn.tcnsportal.com/Home/Section106Help>)

Contact Information

If you have questions concerning the consultation process, please contact our TCNS Administrator, at <https://redcliff-nsn.tcnsportal.com/Home/ContactTribalRepresentative> or (715) 779-3700 Ext 4242. If you have questions regarding the function of the site, please email support@tcnsportal.com.

8. THPO Melinda J Young - Lac du Flambeau Band of Lake Superior Chippewa Indians - Tribal Historic Preservation Office (PO Box: 67) Lac du Flambeau, WI - ldfthpo@ldftribe.com - 715-588-2139

9. Dr. Brice M Obermeyer - Delaware Tribe of Indians of Oklahoma - 1 Kellog Drive Roosevelt Hall, Room 212 Emporia, KS - bobermeyer@delawaretribe.org; sbachor@delawaretribe.org - 620-341-6699
Details: Per Tribal Resolution 2015-41, the Delaware Tribe of Indians has resolved that all FCC regulated tower projects (including PTC towers) must have a fee submitted prior to the review at the fee of \$1,000 for new construction and \$500 for collocations. As of this notice, the Delaware Tribe wishes to receive notice and payment for all projects, including those that do not involve ground disturbance.

For all review requests, the fee should be included with the mailed notification packet. Notifications should include a cover letter describing the project and a topographic map depicting the project's location.

Please send all notifications and checks for projects located in the states of Connecticut, Delaware, Massachusetts, Maryland, New York, New Jersey, Pennsylvania, and Virginia to the following address:

Susan Bachor
DTHPO Special Assistant Eastern Office
P.O. Box 64
Pocono Lake, PA 18347
temple@delawaretribe.org

For projects located in the states of Illinois, Indiana, Michigan, Ohio, West Virginia please send all notifications and checks to the following address:

Larry Heady
DTHPO Special Assistant Midwestern Office
1929 E. 6th Street
Duluth, MN 55812
(262) 825-7586
lheady@delawaretribe.org

For projects located in the states of Kansas, Missouri, and Oklahoma please send all notifications and checks to the following address:

Brice Obermeyer
DTHPO Director, Main Office
Rm 212 Roosevelt Hall
1 Kellogg Drive
Emporia State University
Emporia, KS 66801

Thank you.

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

10. SHPO Cara Metz - Massachusetts Historical Commission - 220 Morrissey Boulevard Boston, MA - cara.metz@sec.state.ma.us - 617-727-8470

11. Deputy SHPO Jeffrey Emidy - Rhode Island Historic Preservation & Heritage Comm - Old State House 150 Benefit St Providence, RI - jeffrey.emidy@preservation.ri.gov - 401-222-4134

12. SHPO Edward F Sanderson - Rhode Island Historic Preservation & Heritage Comm - Old State House 150 Benefit St Providence, RI - rgreenwood@preservation.ri.gov - 401-222-4130

13. SHPO Karen J Senich - Connecticut Commission on Culture and Tourism - One Constitution Plaza Hartford, CT - karen.senich@ct.gov - 860-256-2753

"Exclusions" above set forth language provided by the Tribal Nation or SHPO. These exclusions may indicate types of PTC wayside pole notifications that the Tribal Nation or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribal Nations and SHPOs that have an expressed interest in the geographic area of a proposal. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribal Nation or SHPO. Exclusions may also set forth policies or procedures of a particular Tribal Nation or SHPO (for example, types of information that a Tribal Nation routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. If you learn any of the above contact information is no longer valid, please contact the FCC. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 06/08/2018
Notification ID: 173347
Tower Owner Individual or Entity Name: Tarpon Towers II
Consultant Name: Ellen Gustafson Mrs
Street Address: 3 Saddlebrook Drive
City: Killingworth
State: CONNECTICUT
Zip Code: 06419
Phone: 860-663-1697
Email: egustafson@allpointstech.com

Structure Type: MTOWER - Monopole
Latitude: 41 deg 20 min 59.2 sec N
Longitude: 72 deg 57 min 45.3 sec W
Location Description: 796 Woodin Street
City: Hamden
State: CONNECTICUT
County: NEW HAVEN

Detailed Description of Project: Tarpon Towers II,LLC represented by Phoenix Partnership LLC proposes to build a 120' tall monopole communications tower. Please see attached 2-C and site plans for additional details.

Ground Elevation: 34.4 meters

Support Structure: 36.6 meters above ground level

Overall Structure: 37.8 meters above ground level

Overall Height AMSL: 72.2 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

NEW TOWER SUBMISSION PACKET – FCC FORM 620

Attachment 8 – Local Government, Other Consulting Parties, and Public Notice

1. *If any local government been contacted and invited to become a consulting party pursuant to Section V.A. of the Nationwide Programmatic Agreement, list the local government agencies contacted. Provide a summary of contacts and copies of any relevant documents (e.g., correspondence or notices).*

All-Points Technology Corporation, P.C. contacted relevant local government agencies on June 12, 2018. The respective correspondence is attached.

2. *If a local government agency will be contacted but has not been to date, explain why and when such contact will take place.*

N/A.

3. *List additional consulting parties that were invited to participate by the Applicant, or independently requested to participate. Provide any relevant correspondence or other documents.*

N/A.

4. *You are required to provide a Public Notice Attachment.*

Attached, please find a copy of the legal notice regarding the proposed telecommunications installation that was posted in the *Hartford Courant* on June 13, 2018. As of the date of this submission packet, no comments regarding this notice have been received by All-Points Technology Corporation, P.C. Should a response be received, copies will be forwarded to all consulting parties as an addendum to this submission packet.



Date: June 12, 2018

To: Mayor Curt B. Leng
Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518
203-287-7100
cleng@hamden.com

Re: Proposed Monopole Telecommunications Facility Installation
796 Woodin Street
Hamden, New Haven County, CT 06514

To comply with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC (referred to herein as Phoenix) has retained All-Points Technology Corporation, P.C. (APT) to evaluate proposed tower facilities for any adverse effect it may have on historic properties. As part of this evaluation, and in conformance with the Nationwide Programmatic Agreement (NPA) for review of effects on historic properties for proposed undertakings, APT is submitting this notification to the Town of Hamden Offices of the Mayor, Planning and Zoning Department, Historic Properties Commission and the Certified Local Government Representative (CLG).

Phoenix is proposing to build a 120' tall Monopole Telecommunications Facility within a 40'x70' fenced equipment compound area inside a 45'x75' lease area on property located at 796 Woodin Street, in Hamden, CT. A proposed 20' wide access/utility easement would originate off of Woodin Street with proposed power and telco service routed underground from existing utility pole #2244. The overall height of the proposed facility with antennas would be $\pm 124'$ above ground level (AGL).

The purpose of this letter is to notify you that the revised public notice of this proposed facility will be published in the Hartford Courant newspaper on June 13, 2018 and to invite comments regarding any potential effects that the proposed facility may have upon historic properties from relevant individuals or groups that you may be aware of.

Public comments regarding potential effects on historic properties may be submitted in writing within 30-days from the date of this publication to: All-Points Technology Corporation at 3 Saddlebrook Drive, Killingworth, CT 06419, to the attention of Ellen Gustafson, (860) 663-1697 ext. 214, egustafson@allpointstech.com. Please respond within 30 days if you wish to comment.



Date: June 12, 2018

To: Mr. Daniel W. Kops, Jr., Town Planner
Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518
203-287-7070
dkops@hamden.com

Re: Proposed Monopole Telecommunications Facility Installation
796 Woodin Street
Hamden, New Haven County, CT 06514

To comply with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, Tarpon Towers II, LLC, represented by Phoenix Partnership, LLC (referred to herein as Phoenix) has retained All-Points Technology Corporation, P.C. (APT) to evaluate proposed tower facilities for any adverse effect it may have on historic properties. As part of this evaluation, and in conformance with the Nationwide Programmatic Agreement (NPA) for review of effects on historic properties for proposed undertakings, APT is submitting this notification to the Town of Hamden Offices of the Mayor, Planning and Zoning Department, Historic Properties Commission and the Certified Local Government Representative (CLG).

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Date: June 12, 2018

To: Certified Local Representative
Town of Hamden
2750 Dixwell Avenue
Hamden, CT 06518
203-287-7032

Re: Proposed Monopole Telecommunications Facility Installation
796 Woodin Street
Hamden, New Haven County, CT 06514

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ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE · KILLINGWORTH, CT 06419 · PHONE 860-663-1697 · FAX 860-663-0935



Date: June 12, 2018

To: Mr. Todd Levine, Chairman
Historic Properties Commission
Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518
203-287-7000
Todd.levine@ct.gov

Re: Proposed Monopole Telecommunications Facility Installation
796 Woodin Street
Hamden, New Haven County, CT 06514

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ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE · KILLINGWORTH, CT 06419 · PHONE 860-663-1697 · FAX 860-663-0935

AFFIDAVIT OF PUBLICATION

State of Connecticut

June 13, 2018

County of Hartford

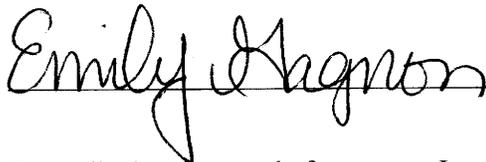
I, Emily Gagnon, do solemnly swear that I am a Sales Assistant of the Hartford Courant, printed and published daily, in the state of Connecticut and that from my own personal knowledge and reference to the files of said publication the advertisement of Public Notices was inserted in the regular edition.

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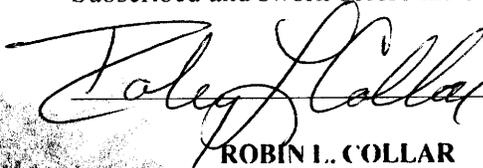
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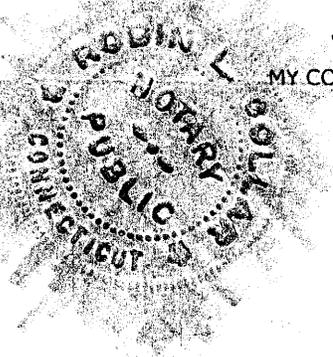
\$43.49
All-Points Technology Corporation - CU00316216
5659439
Full Run

 Sales Assistant,
Emily Gagnon

Subscribed and sworn before me on June 13, 2018

 Notary Public

ROBIN L. COLLAR
NOTARY PUBLIC
MY COMISSION EXPIRES MAR 31, 2021



Hartford Courant

media group

PUBLIC NOTICE

Terpon Towers II, LLC represented by Phoenix Partnership, LLC is proposing to build a $\pm 120'$ tall Monopole Telecommunications Tower facility located at 796 Woodin Street, Hamden, New Haven County, CT 06514. The overall height of the proposed installation will be $\pm 124'$ above ground level.

Public comments regarding potential effects from this site on historic properties may be submitted in writing within 30-days from the date of this publication to: All-Points Technology Corporation at 3 Saddlebrook Drive, Killingworth, CT 06419, to the attention of Ellen Gustafson, (860) 663-1697 ext. 214, egustafson@allpointstech.com.



To advertise, call 860-525-2525 or placeanad.courant.com

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Description: Public Notice
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Publication Date: 06/13/2018

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July 26, 2018

Ms. Ellen Gustafson
Administrative Assistant
All Points Technology Corp.
3 Saddlebrook Drive
Killingworth, CT 06419

Subject: Phase IB Cultural Resource Reconnaissance Survey
Proposed Wireless Telecommunications Facility
796 Woodin Street
Hamden, CT

Dear Ms. Gustafson:

The State Historic Preservation Office (SHPO) has reviewed the archeological survey report prepared by Heritage Consultants, LLC (Heritage), dated July 2018. The proposed activities are subject to review by this office pursuant to the National Historic Preservation Act and in accordance with Federal Communications Commission regulations. SHPO understands that the proposed undertaking includes the installation of a 120 foot tall monopole with antennas, mounted in three sectors at a maximum height of 124 feet above ground level (AGL), installed within a 40' by 70' fenced compound, and accessed by a 12' wide access drive originating west of the attached garage of the existing residence. The submitted report is well-written, comprehensive, and meets the standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*.

796 Woodin Street is located within a 0.5 mile radius of Heroes Tunnel, formerly the West Rock Tunnel, which was determined to be eligible for listing on the National Register of Historic Places by our office in a letter dated April 20, 2016.

Phase IB of the reconnaissance survey consisted of subsurface testing of areas that would be subject to ground disturbing impacts as part of the proposed undertaking. A total of 23 of 24 planned shovel tests were excavated successfully throughout the proposed work area. Of the 23 shovel tests, 5 yielded cultural material from historic periods.

The majority of historic material was recovered from Stratum I, a disturbed A-Horizon deposit, and are representative of typical items used between the early- and mid-twentieth century. These types of artifacts are indicative of agricultural/domestic use of the site, and do not possess any unique characteristics or research potential, and thus are not eligible for listing in the National Register of Historic Places "National Register."

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | Cultureandtourism.org

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As a result of the information submitted, SHPO concurs with the findings of the report that additional archeological investigations of the project areas are not warranted and that there will be no adverse effect to sites listed on or eligible for listing on the National Register of Historic Places, with the following conditions:

1. The antennas and associated equipment will be designed, painted to match adjacent materials, and installed to be as non-visible as possible, and
2. if not in use for six consecutive months, antennas, microwave dish, and all other equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period.

Please also submit two bound copies of the Phase IB Survey be submitted to this office for archiving and public access.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act and Section 106 of the National Historic Preservation Act. For further information please contact Marena Wisniewski, Environmental Reviewer, at (860) 500-2357 or marena.wisniewski@ct.gov.

Sincerely,



Mary B. Dunne
Deputy State Historic Preservation Officer

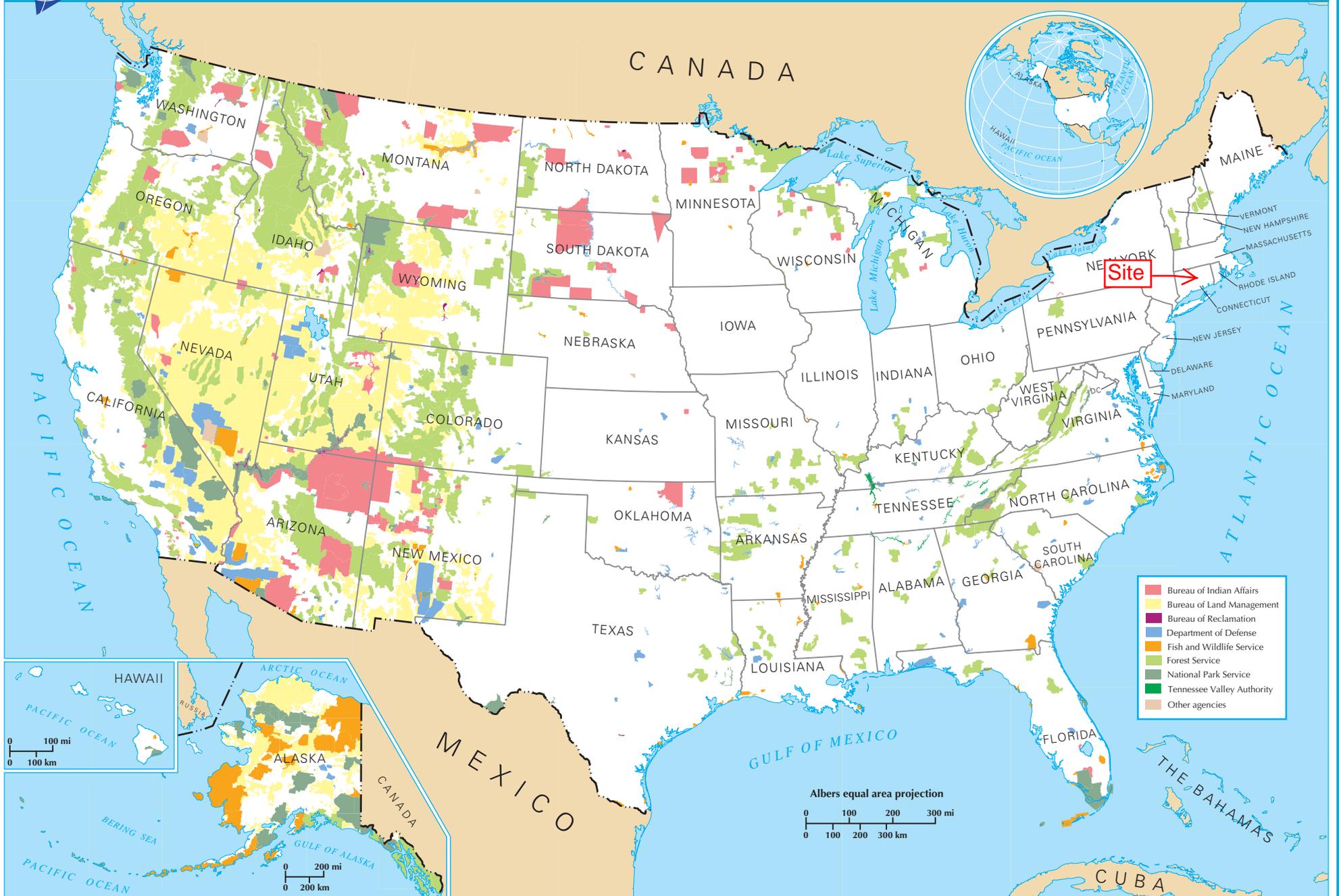
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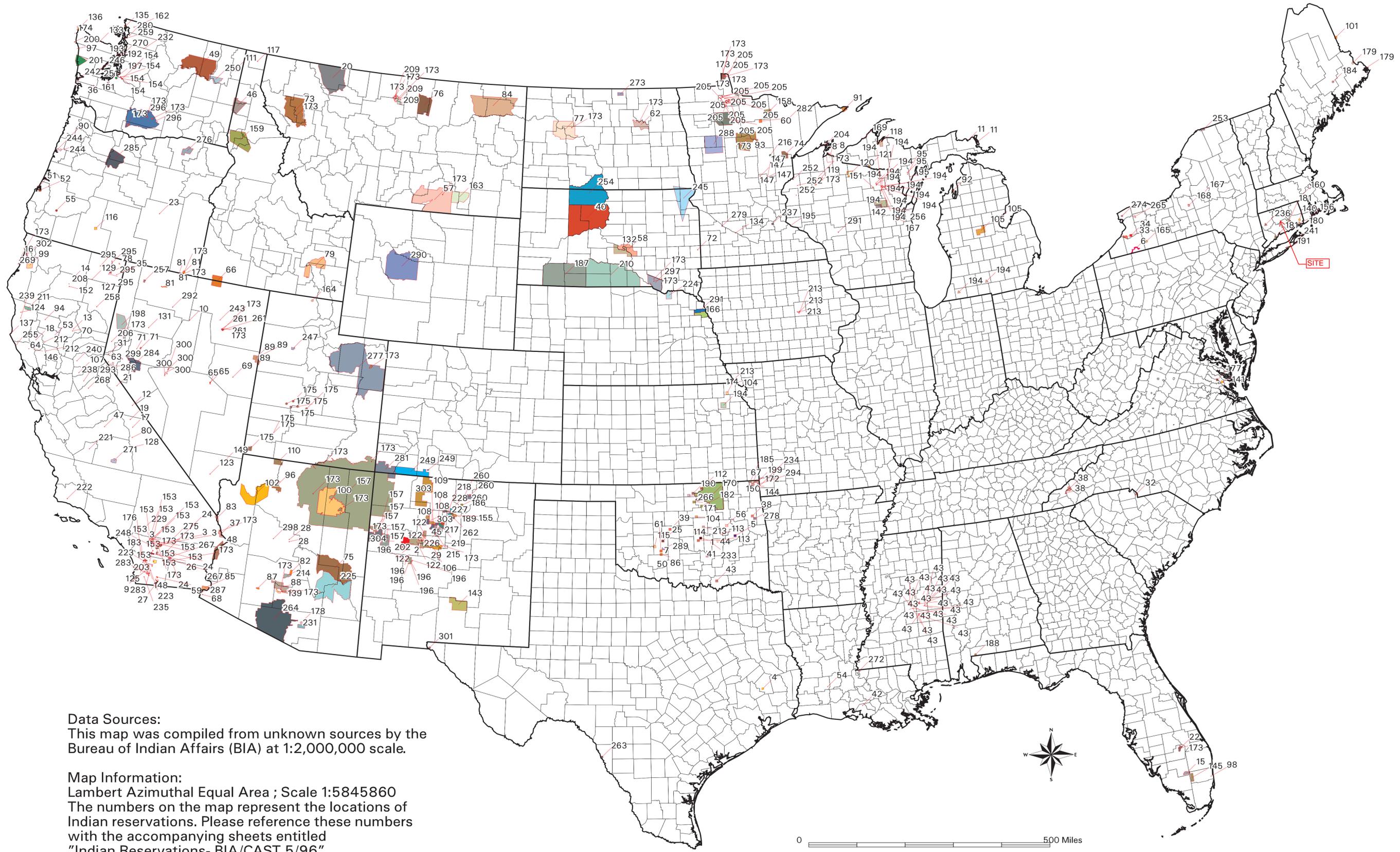
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FEDERAL LANDS AND INDIAN RESERVATIONS



Indian Reservations in the Continental United States



358-0137

Details: Effective January 2016

ELECTRONIC TRANSFER OF MATERIALS - The Lac Vieux Desert Band of Lake Superior Chippewa (Getegitigaaning Ojibwe Nation) will go paperless.

To enable us to participate fully, Lac Vieux Desert (Getegitigaaning Ojibwe Nation) fee for such services is \$500. The fee must be submitted so that the research can be done. This will be the only item received in our office via regular USPS mail or other appropriate carriers.

At that time we will review and make our determinations with the appropriate information that we have on file with our Tribe pertaining to this area and an email response will go to the designated person at that agency.

All Collocation Projects will be handled in the same manner as new projects UNLESS the Getegitigaaning Ojibwe Nation commented on the original project.

The following information shall be emailed for each project to daisy.mcgeschick@lvdtribal.com. The information must contain summary of the proposed ground disturbing activity, legal description of the Area of Potential Effects, (APE), Topo maps identifying the proposed area, and copies of any studies that have already been conducted regarding cultural resources and archaeology in their full format, including reports on archaeological and cultural sites identified to the email address below. All responses and tower project closures will be emailed back to the appropriate contact person for your agency.

Should you have any questions, please feel free to contact me at 906-358-0137.

Miigwetch,

Daisy McGeshick, THPO

Fee can be sent along with the requested information to:

Make Check Payable to:

Getegitigaaning Ojibwe Nation THPO

P.O. 249

Watersmeet, Michigan 49969

Office: 906-358-0137

Fax: 906-358-4850 Email: daisy.mcgeschick@lvdtribal.com

6. THPO Edith Leoso - Bad River Band of Lake Superior Tribe of Chippewa Indians - (PO Box: 39) Odanah, WI - thpo@badriver-nsn.gov; THPOAsst@badriver-nsn.gov - 715-682-7123

Details: The Bad River Tribe is interested in projects with ground disturbance, only. This includes projects on previously disturbed soils.

The Bad River Tribe's fee to process requests is \$650.00 per request.

The Bad River Tribe shows no interest after 30 days of no response.

If the applicant/tower builder receives no response from the Bad River Band of Lake Superior Tribe of Chippewa Indians within 30 days after notification through TCNS, the Bad River Band of Lake Superior Tribe of Chippewa Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,



The Delaware Tribe of Indians of Oklahoma
Delaware Tribe Historic Preservation
P.O. Box 64
Pocono Lake, PA 18347
sbachor@delawaretribe.org

July 17, 2018

All-Points Technology Corporation
Att: Ellen Gustafson
3 Saddlebrook Dr.
Killingworth, CT 06419

RE: TCNS# 173347

Dear Ms. Gustafson,

Thank you for providing the survey report for the above referenced project. Our review indicates that there are no religious or culturally significant sites within this project area and we have no objection to the proposed project. We defer comment to your office as well as to the State Historic Preservation Office and/or the State Archaeologist.

However, we ask that in the event a concentration of artifacts and/or in the unlikely event any human remains are accidentally unearthed during the course the project that all work is halted until a qualified archaeologist can evaluate the find and the Delaware Tribe of Indians is informed of the inadvertent discovery.

If you have any questions, feel free to contact this office by phone at (610) 761-7452 or by e-mail at sbachor@delawaretribe.org.

Sincerely,

Susan Bachor, M.A.
Archaeologist
Delaware Tribe Historic Preservation

LAC VIEUX DESERT BAND OF LAKE SUPERIOR CHIPPEWA INDIANS

Getegitigaaning Ojibwe Nation Tribal Historic Preservation

P.O. Box 249, E23857 Poplar Circle Watersmeet, MI 49969

Phone: 906-358-0137 Fax: 906-358-4850



Booshoo,

The Getegitigaaning Ojibwe Nation THPO (Lac Vieux Desert Chippewa/LVD) received your requests for comments or interest concerning the National Historic Preservation Act, Section 106 request for review and comment to the effect on historic and cultural sites within the proposed above referenced project area.

Getegitigaaning Ojibwe Nation does not release any cultural/historical data to any agency outside of the Nation. We will however research and check our databases, maps, and any other pertinent inventory records with regards to said project.

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the Getegitigaaning Ojibwe Nation Tribal Historic Preservation Officer (THPO) that the project will have **no adverse effect** [36 CFR § 800.5(b)] on historic properties within the area of potential effects for the above-cited undertaking.

This letter evidences the FCC's compliance with 36 CFR § 800.4 "Identification of historic properties" and 36 CFR § 800.5 "Assessment of adverse effects", and the fulfillment of the FCC's responsibility to notify the THPO, as a consulting party in the Section 106 process, under 36 CFR § 800.5(c) "Consulting party review".

Referencing above mentioned project we have determined that we have no objections to the project at this time we have now completed the necessary paper work and research for site documentation and will keep the project open until such time it ends. If the scope of work changes in any way, or if artifacts or human remains are discovered please notify LVD immediately.

Please forward any future request for review of historic and cultural properties according to the National Historic Preservation Act Section 106 to Ms. Daisy McGeshick, Tribal Historic Preservation Program Officer at the address below.

Miigwitch,

/s/

Ms. Daisy McGeshick, THPO
Getegitigaaning Ojibwe Nation
P.O. BOX 249
Watersmeet, Michigan 49969
Phone: 906-358-0137
Fax: 906-358-4850
Email daisy.mcgeshick@lvdtribal.com

Name: All-Points Tech. Corp., P.C.
Amount Paid: \$500.00
TCNS#: 173347
CK#: VV1142 - ECHECK
Invoice#: 12675
Date Closed: 6/28/2018
Initials: DM

From: [Alden Connor](#)
To: [Alan Swanson](#)
Date: Friday, June 29, 2018 11:11:27 AM

***Keweenaw Bay Indian Community
Tribal Historic Preservation Office
and Language Program***

16429 Beartown Road
Baraga, Michigan 49908-9210
aconnor@kbic-nsn.gov, gloonsfoot@kbic-nsn.gov
Phone: 906.353.4278 or 4108. Fax: 906.353.7540

6/29/2018

RE: TCNS Notification ID# 173347, 173493

Ahhnii Boozhoo (Hello! Greetings!);
The KBIC Tribal Historic Preservation Office has identified no properties of interest regarding religious or cultural sites documented at this time in your proposed location. If the scope of work changes in any way, or if artifacts or human remains are discovered, please notify the KBIC THPO immediately.
Please forward any future consultation requests for review of project proposals pursuant to Section 106 of the National Historic Preservation Act to KBIC THPO, Keweenaw Bay Indian Community Tribal Historic Preservation Office or through email at: gloonsfoot@kbic-nsn.gov, and keep us informed of future projects as we continue our efforts to identify and document historic, archaeological and traditional cultural sites in the area so we can assist in making an appropriate determination. (Please note that Ms. Goyen is no longer associated with the THPO office.)

Chi-Miigwech (Big Thank You).

Gary F. Loonsfoot, Jr., Cultural Resources Director/Alden L Connor, Jr., THPO Technician

Miigwech!

Gary F. Loonsfoot, Jr. and Alden Connor, Jr.

"If you take care of the language, the spirit-keeper of the language will take care of you"

From: [ldfthpo](#)
To: [Ellen Gustafson](#)
Subject: RE: Tribal Review Request - Electronic Submission - TCNS #173347- Proposed Monopole Telecommunications Facility Installation 796 Woodin Street, Hamden, New Haven County CT 06514
Date: Tuesday, July 03, 2018 4:57:08 PM
Attachments: [image002.png](#)

Ms. Gustafson,

The Lac du Flambeau Tribal Historic Preservation Office (THPO) received your requests for comments or interest concerning the National Historic Preservation Act, Section 106 request for review and comment to the effect on historic and cultural sites within the proposed above referenced project area.

The Lac du Flambeau Tribe does not release any cultural/historical data to any agency outside of the Tribe. We will, however research and check our databases, maps, and any other pertinent inventory records with regards to said project.

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the Lac du Flambeau THPO that the project has **No Effect** to sites of historic significance and/or the direct APE.

This letter evidences the FCC's compliance with 36 CFR § 800.4 "Identification of historic properties" and 36 CFR § 800.5 "Assessment of adverse effects", and the fulfillment of the FCC's responsibility to notify the THPO, as a consulting party in the Section 106 process, under 36 CFR § 800.5(c) "Consulting party review".

Referencing above mentioned project we have determined that we have no objections to the project at this time we have now completed the necessary paper work and research for site documentation and will keep the project open until such time it ends. If the scope of work changes in any way, or if artifacts or human remains are discovered please notify Lac du Flambeau immediately.

Sarah Schuman,
Assistant Tribal Historic Preservation Officer
For

Melinda Young,
Tribal Historic Preservation Officer

P.O. Box 67

Lac du Flambeau, WI 54538

Phone: 715-588-4381

Cell: 715-439-3867

www.ldftribe.com



From: [ldfthpo](#)
To: [Ellen Gustafson](#)
Subject: RE: Tribal Review Request - Electronic Submission - TCNS #173347- Proposed Monopole Telecommunications Facility Installation 796 Woodin Street, Hamden, New Haven County CT 06514
Date: Friday, July 13, 2018 2:31:45 PM

Ms. Gustafson,

Thank you for the updated material. After looking at the report our original response would remain the same.

Please let me know if you have any questions.

Have a great day!

Sarah

From: Ellen Gustafson [mailto:EGustafson@allpointstech.com]
Sent: Friday, July 13, 2018 11:47 AM
To: ldfthpo <ldfthpo@ldftribe.com>
Subject: RE: Tribal Review Request - Electronic Submission - TCNS #173347- Proposed Monopole Telecommunications Facility Installation 796 Woodin Street, Hamden, New Haven County CT 06514
Importance: High

Good Afternoon,

This email is to provide you with additional information. A Phase IB Cultural Resources Reconnaissance Survey report had been requested for this site after the original submission on 6/21/18 (below). This report was completed by Heritage Consultants LLC on July 12, 2018. All-Points Technology Corporation, PC respectfully submits this report as a courtesy to the Lac du Flambeau Band of Lake Superior Chippewa Indians for your review. APT recognizes that your tribe had already submitted its review on 7/03/2018 (attached) and may wish to update your response.

If you need any additional information or have any questions, please feel free to contact me at 860-634-1697 x214 or via email at egustafson@allpointstech.com

Have a wonderful weekend.

Regards,
Ellen

Ellen Gustafson
Administrative Assistant



3 Saddlebrook Drive
Killingworth, CT 06419
860-663-1697 ext. 214 (P)
860-663-0935 (F)
egustafson@allpointstech.com

From: Ellen Gustafson
Sent: Thursday, June 21, 2018 4:29 PM
To: 'ldfthpo' <ldfthpo@ldftribe.com>
Subject: Tribal Review Request - Electronic Submission - TCNS #173347- Proposed Monopole Telecommunications Facility Installation 796 Woodin Street, Hamden, New Haven County CT 06514

Good Afternoon,

All-Points Technology Corporation, P.C. is respectfully submitting via this electronic mail, a request for your review of the above referenced project. Check #VV1145, in the amount of \$350, was mailed on 06/21/2018 under separate cover referencing TCNS #173347. Attached to this email you shall find a cover letter detailing the project summary, Site Plans and a Preliminary Archaeological Assessment prepared by Heritage Consultants, LLC which includes site photos and a site location map (Figure 1).

If you have any questions/comments, encounter difficulties receiving this submission or you do not receive the check in a timely manner, please contact me directly at 860-663-1697 x214 or via email at egustafson@allpointstech.com and I will be happy to resolve the matter immediately.

Sincerely,
Ellen

Ellen Gustafson
Administrative Assistant



3 Saddlebrook Drive
Killingworth, CT 06419
860-663-1697 ext. 214 (P)
860-663-0935 (F)
egustafson@allpointstech.com



**The Mashantucket Pequot
Tribal Nation
Tribal Historic
Preservation Office**

Date: June 28th, 2018

Ellen Gustafson
Administrative Assistant

All Points Technology Corporation (Working On Behalf of T-Mobile Northeast)
3 Saddlebrook Drive,
Killingworth, CT 06419
860.663-1697

RE: TCNS 173347

Dear Ellen,

We have reviewed the materials for the above-referenced TCNS project. This includes the Preliminary Archaeological Assessment as well as the Phase 1B "Cultural Resources Reconnaissance Survey". Based on a review of all the information provided, we concur with Heritage Consultants LLC that there does not appear to be any impact on potentially significant religious and cultural resources for the Mashantucket Pequot Tribe. However, in the event of an inadvertent discovery of human remains or additional unanticipated Archaeological resources, please notify our office.

Regards,

Michael Kickingbear Johnson
Deputy THPO,
The Mashantucket Pequot Tribal Historic Preservation Office

From: towernotifyinfo@fcc.gov
To: [Ellen Gustafson](mailto:Ellen.Gustafson)
Cc: tcns.fccarchive@fcc.gov; mejohanson@mptn-nsn.gov; mturnbull@mptn-nsn.gov
Subject: Reply to Proposed Tower Structure (Notification ID: 172154) - Email ID #5908196
Date: Friday, July 13, 2018 12:42:46 PM

Dear Ellen Gustafson Mrs,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Deputy THPO Michael K Johnson of the Mashantucket Pequot Tribe in reference to Notification ID #172154:

Date: July 13th, 2018

Ellen Gustafson
Administrative Assistant

All Points Technology Corporation (Working On Behalf of T-Mobile Northeast)
3 Saddlebrook Drive,
Killingworth, CT 06419
860.663-1697

RE: TCNS 172154

Dear Ellen,

The Mashantucket Pequot Tribal Historic Preservation Office has received your complete package for the above referenced TCNS project. We have reviewed the Phase 1 Cultural Resources Reconnaissance Survey and the specific references to the results of past excavation projects in section 4.2 (Hidden Creek site & Templeton Site). We appreciate having this opportunity to comment on your project.

Section 4.2 "Prehistory of Connecticut" there is a reference to the excavation and recovery of artifacts by Dr. Jones in 1997 at the Hidden Creek site. We see that primarily tools were discovered and removed, and nothing was deemed as un-identified at that time. Any future recovered Items for which we are made aware of and are unknown or not identified through Archaeology; we would further reserve our right to attempt to identify these types of items.

Therefore, based on the review of the information provided, we concur with the Phase 1 Cultural Resources Reconnaissance Survey. Further, we conclude that there does not appear to be any impact on potentially significant religious and cultural resources for the Mashantucket Pequot Tribe. However, in the event of an inadvertent discovery of human remains or archaeological resources discovered within the APE, we respectfully ask you to please notify our office.

Regards,

Michael Kickingbear Johnson
Deputy THPO,
The Mashantucket Pequot Tribal Historic Preservation Office

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 05/14/2018
Notification ID: 172154
Tower Owner Individual or Entity Name: Verizon Wireless
Consultant Name: Ellen Gustafson Mrs
Street Address: 3 Saddlebrook Drive
City: Killingworth
State: CONNECTICUT
Zip Code: 06419
Phone: 860-663-1697
Email: egustafson@allpointstech.com

Structure Type: MTOWER - Monopole
Latitude: 41 deg 23 min 43.8 sec N
Longitude: 72 deg 55 min 47.8 sec W
Location Description: 208 Kirk Road
City: Hamden
State: CONNECTICUT
County: NEW HAVEN

Detailed Description of Project: Verizon Wireless proposes to construct a 120' monopole with an overall antenna height of 123'. Please see attached plans for further project details.

Ground Elevation: 100.0 meters
Support Structure: 36.6 meters above ground level
Overall Structure: 37.5 meters above ground level
Overall Height AMSL: 137.5 meters above mean sea level

From: towernotifyinfo@fcc.gov
To: [Ellen Gustafson](mailto:Ellen.Gustafson)
Cc: tcns.fccarchive@fcc.gov; mejohanson@mptn-nsn.gov; mturnbull@mptn-nsn.gov
Subject: Reply to Proposed Tower Structure (Notification ID: 173347) - Email ID #5942118
Date: Friday, July 27, 2018 11:10:55 AM

Dear Ellen Gustafson Mrs,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Deputy THPO Michael K Johnson of the Mashantucket Pequot Tribe in reference to Notification ID #173347:

Date: June 28th, 2018

Ellen Gustafson
Administrative Assistant

All Points Technology Corporation (Working On Behalf of T-Mobile Northeast)
3 Saddlebrook Drive,
Killingworth, CT 06419
860.663-1697

RE: TCNS 173347

Dear Ellen,

We have reviewed the materials for the above-referenced TCNS project. This includes the Preliminary Archaeological Assessment as well as the Phase 1B "Cultural Resources Reconnaissance Survey". Based on a review of all the information provided, we concur with Heritage Consultants LLC that there does not appear to be any impact on potentially significant religious and cultural resources for the Mashantucket Pequot Tribe. However, in the event of an inadvertent discovery of human remains or additional unanticipated Archaeological resources, please notify our office.

Regards,

Michael Kickingbear Johnson
Deputy THPO,
The Mashantucket Pequot Tribal Historic Preservation Office

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 06/08/2018
Notification ID: 173347
Tower Owner Individual or Entity Name: Tarpon Towers II

Consultant Name: Ellen Gustafson Mrs
Street Address: 3 Saddlebrook Drive
City: Killingworth
State: CONNECTICUT
Zip Code: 06419
Phone: 860-663-1697
Email: egustafson@allpointstech.com

Structure Type: MTOWER - Monopole
Latitude: 41 deg 20 min 59.2 sec N
Longitude: 72 deg 57 min 45.3 sec W
Location Description: 796 Woodin Street
City: Hamden
State: CONNECTICUT
County: NEW HAVEN

Detailed Description of Project: Tarpon Towers II, LLC represented by Phoenix Partnership LLC proposes to build a 120' tall monopole communications tower. Please see attached 2-C and site plans for additional details.

Ground Elevation: 34.4 meters

Support Structure: 36.6 meters above ground level

Overall Structure: 37.8 meters above ground level

Overall Height AMSL: 72.2 meters above mean sea level

From: towernotifyinfo@fcc.gov
To: [Ellen Gustafson](mailto:Ellen.Gustafson)
Cc: tcns.fccarchive@fcc.gov; ethomas@moheganmail.com
Subject: Reply to Proposed Tower Structure (Notification ID: 172154) - Email ID #5908118
Date: Friday, July 13, 2018 10:59:29 AM

Dear Ellen Gustafson Mrs,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Deputy THPO Elaine Thomas of the Mohegan Indian Tribe in reference to Notification ID #172154:

TCNS# 172154- Our office has completed research for the proposed telecommunications facility located at 208 Kirk Road, Hamden, Connecticut. We understand that no cultural materials of any kind were found during pedestrian survey or sub-surface testing within the Area of Potential Effects-Direct Effects and that no historic properties were identified within the APE-DE. We concur with the Phase 1 Cultural Resources Reconnaissance Survey Report that the revised scope of work will not impact historic resources and the recommendation that no further archaeological investigation is necessary.

Based upon these findings, it is the opinion of the Mohegan THPO that No properties will be effected by this project as proposed, to historic properties, or properties of traditional religious and cultural significance to the Mohegan Tribe.

Thank you for the opportunity to research this project in accordance with the National Historic Preservation Act.

Best Regards,

Elaine Thomas
The Mohegan Tribe, Deputy Tribal Historic Preservation Officer

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 05/14/2018
Notification ID: 172154
Tower Owner Individual or Entity Name: Verizon Wireless
Consultant Name: Ellen Gustafson Mrs
Street Address: 3 Saddlebrook Drive
City: Killingworth
State: CONNECTICUT
Zip Code: 06419
Phone: 860-663-1697
Email: egustafson@allpointstech.com

Structure Type: MTOWER - Monopole
Latitude: 41 deg 23 min 43.8 sec N

Longitude: 72 deg 55 min 47.8 sec W
Location Description: 208 Kirk Road
City: Hamden
State: CONNECTICUT
County: NEW HAVEN

Detailed Description of Project: Verizon Wireless proposes to construct a 120' monopole with an overall antenna height of 123'. Please see attached plans for further project details.

Ground Elevation: 100.0 meters

Support Structure: 36.6 meters above ground level

Overall Structure: 37.5 meters above ground level

Overall Height AMSL: 137.5 meters above mean sea level

From: towernotifyinfo@fcc.gov
To: [Ellen Gustafson](mailto:Ellen.Gustafson)
Cc: tcns.fccarchive@fcc.gov; ethomas@moheganmail.com
Subject: Reply to Proposed Tower Structure (Notification ID: 173347) - Email ID #5925420
Date: Friday, July 20, 2018 10:27:08 AM

Dear Ellen Gustafson Mrs,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Deputy THPO Elaine Thomas of the Mohegan Indian Tribe in reference to Notification ID #173347:

TCNS# 173347- Our office has completed research for the proposed Telecommunications Facility Installation located at 796 Woodin street, Hamden, CT.

We have reviewed the additional information that was provided to us regarding this project. It is the opinion of the Mohegan Tribal Historic Preservation Office that it is unlikely this undertaking would impact archaeological resources within the Area of Potential Effects-Direct Effects, and this undertaking as proposed should have No Adverse Effect on historic properties, or properties of traditional religious and cultural significance to the Mohegan Tribe. We concur with the Phase 1B Cultural Resources Reconnaissance Survey provided for our review, and that no further archaeological research is warranted for this project.

Thank you for the opportunity to research this project in accordance with the National Historic Preservation Act.

Best Regards,

Elaine Thomas
The Mohegan Tribe
Deputy Tribal Historic Preservation Officer
ethomas@moheganmail.com

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 06/08/2018
Notification ID: 173347
Tower Owner Individual or Entity Name: Tarpon Towers II
Consultant Name: Ellen Gustafson Mrs
Street Address: 3 Saddlebrook Drive
City: Killingworth
State: CONNECTICUT
Zip Code: 06419
Phone: 860-663-1697
Email: egustafson@allpointstech.com

Structure Type: MTOWER - Monopole

Latitude: 41 deg 20 min 59.2 sec N
Longitude: 72 deg 57 min 45.3 sec W
Location Description: 796 Woodin Street
City: Hamden
State: CONNECTICUT
County: NEW HAVEN

Detailed Description of Project: Tarpon Towers II, LLC represented by Phoenix Partnership LLC proposes to build a 120' tall monopole communications tower. Please see attached 2-C and site plans for additional details.

Ground Elevation: 34.4 meters
Support Structure: 36.6 meters above ground level
Overall Structure: 37.8 meters above ground level
Overall Height AMSL: 72.2 meters above mean sea level

Please note that NITHPO's current review fees are as follows:

For projects in which there is to be no ground disturbance the review fee is \$500.

For ALL projects which include ground disturbance, the review fees \$1000.

If the applicant/tower builder receives no response from the Narragansett Indian Tribe within 30 days after notification through TCNS, the Narragansett Indian Tribe has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Narragansett Indian Tribe in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

4. THPO Gary Loonsfoot Jr - Keweenaw Bay Indian Community - 16429 Beartown Road . Baraga, MI - gloonsfoot@kbic-nsn.gov - 906-353-4278

Details: The KBIC THPO reviews all projects within historic homelands for the presence of cultural resources with significance to the Anishinaabe. Your request will go through a preliminary review by our THPO/NAGPRA Technician, the review consists of relevant studies submitted by the applicant regarding cultural resources documentation, in house literature search, database search and GIS search for further information. If any cultural resources are identified during this process, the file will be turned over to the Tribal Historic Preservation Officer in order to make a determination of effects.

Information required in order to complete this process are as follows:

Project Name

Project Location

Physical Address

Latitude and Longitude

State, County, Township, Range, Section quarters

Brief Project Description

Existing studies for archaeological sites, and cultural resources.

As of June 22,2018 the KBIC THPO will be charging a fee of \$750.00 per review/collocation unless the review covers more than one section of land in which case the fee is \$750.00 per section. Fees in this process cover the research and other activities required to provide you with a timely response so your project can stay on track. Please submit payment of \$750.00 for each project application submitted, checks should be made payable to KBIC THPO, 16429 Beartown Road, Baraga, Michigan 49908. Any questions can be directed to: Gary Loonsfoot Jr via email gloonsfoot@kbic-nsn.gov, or by phone: 906-353-6623 ext. 4108. (Please note that Minogheezhig Sandman-Shelifoe is no longer a contact within the KBIC-THPO office)

5. THPO and NAGPRA Representative Daisy McGeshick Ms - Lac Vieux Desert Band of Lake Superior Chippewa Indians - E23857 Poplar Circle (PO Box: 249) Watersmeet, MI - daisy.mcgeshick@lvdtribal.com - 906-

Ellen Gustafson

From: noreply@tcnsportal.com
Sent: Friday, July 20, 2018 12:20 PM
To: Ellen Gustafson
Subject: TCNS Portal - Red Cliff Band of Lake Superior Chippewa - TCNS #: 173347 - Approved

TCNS Portal - Red Cliff Band of Lake Superior Chippewa

TCNS # 173347 - Approved

July 20, 2018

Project request approved by the tribe representative.



Red Cliff Band of Lake Superior Chippewa
Tribal Historic Preservation Office
88455 Pike Road
Bayfield, WI 54814
(715) 779 – 3700 ext. 4243 or 4244

Boozhoo,

The Red Cliff Band's Tribal Historic Preservation Office (THPO) received your request for comments or interest concerning the National Historic Preservation Act, Section 106 request for review and comment to the effect on historic and cultural sites within the proposed referenced project area.

The Red Cliff Band does not release any cultural/historical data to any agency outside of the Tribe. We will, however research and check our databases, maps, and any other pertinent inventory records with regards to said project.

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the cited undertaking at the location noted. Based on the information provided for our review, it is the opinion of the Red Cliff THPO that the project has No Adverse Effect on Historic Properties within the Direct and/or Visual APE.

This response evidences the FCC's compliance with 36 CFR § 800.4 "Identification of historic properties" and 36 CFR § 800.5 "Assessment of adverse effects", and the fulfillment of the FCC's responsibility to notify the THPO, as a consulting party in the Section 106 process, under 36 CFR § 800.5(c) "Consulting party review".

Referencing mentioned project, we have determined that we have no objections to the project at this time. We have now completed the necessary paper work and research for site documentation and will keep the project open until such time that it ends. If the scope of work changes in any way, or if artifacts or human remains are discovered please notify the Red Cliff Band's Tribal Historic Preservation Office immediately.

If you have any questions, please contact us at <https://redcliff-nsn.tcnsportal.com/Home/ContactTribalRepresentative> or (715)779-3700 Ext 4242.

Miigwech,

Red Cliff THPO, Tribal Historic Preservation Office
Red Cliff Band of Lake Superior Chippewa

Company:
All Points Tech

Submitted Consultant:
Ellen Gustafson

Tower:
173347

Tower Type:
New Build

Submission Date:
07/13/2018 01:48 PM

Tower Fee Amt:
\$800.00

Payment Received:
Yes

Payment Type:
Manual

Trans ID/Check #:
#VV1146

Payment Date:
7/16/2018

Cover Letter:
[Cover Ltr - Hamden 2 CT 7-13-18.pdf](#)

Archeology Report:
[Archeology Report Phase 1B Hamden 2 CT.pdf](#)

SHPO Letter (or SHPO Exemption if applicable):
[SHPO Ltr Hamden 2 CT.pdf](#)

USGS Maps:
[USGS Map Hamden 2 CT.pdf](#)

Site Photos:
[Site Photos Hamden 2 CT_opt.pdf](#)

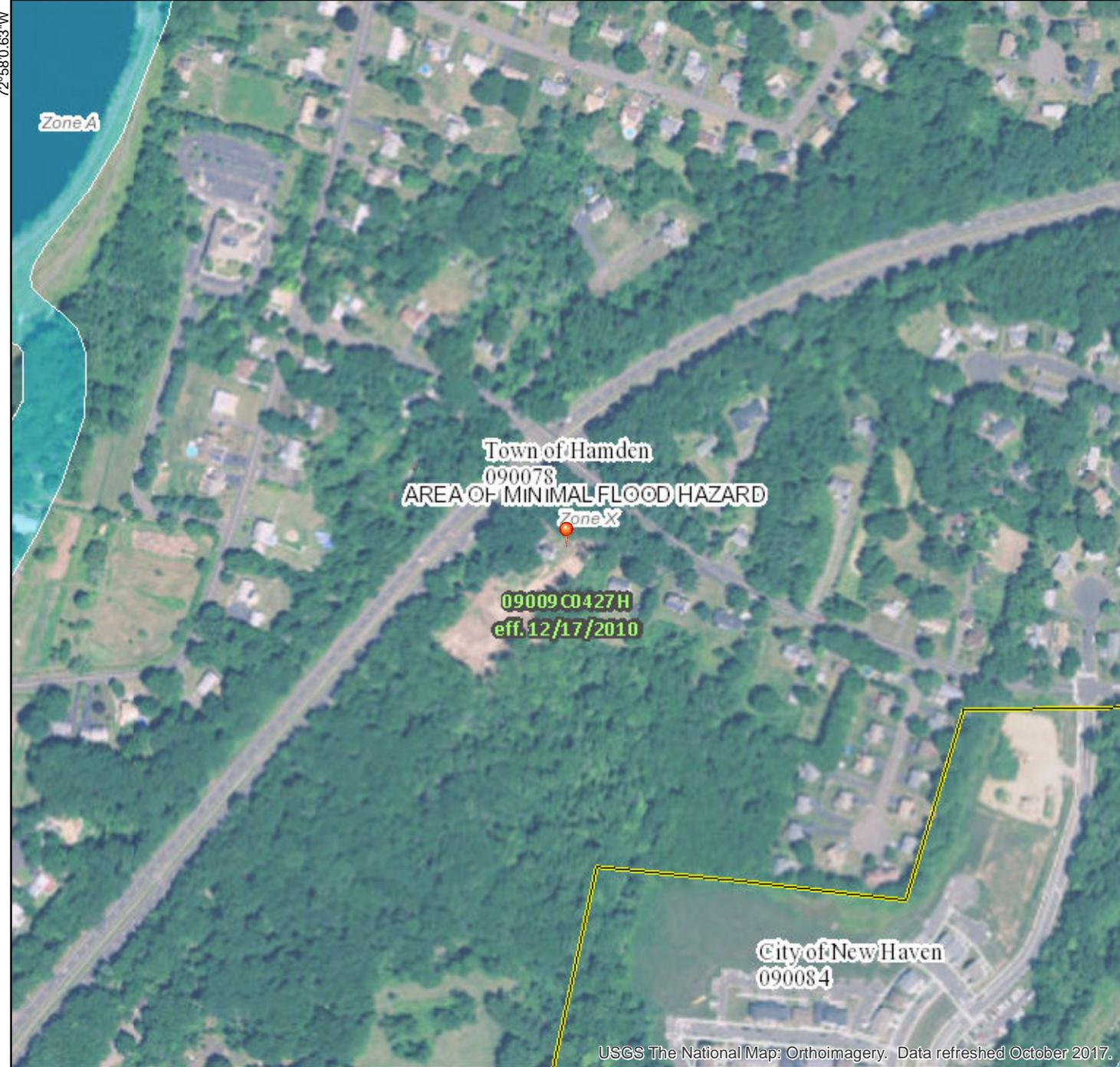
[Archeology Report Phase 1A Hamden 2 CT.pdf](#)

[Click here to log in](#)

National Flood Hazard Layer FIRMette



41°21'19.31"N



USGS The National Map: Orthoimagery. Data refreshed October 2017. Feet 1:6,000 41°20'52.30"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 17.5 |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/17/2018 at 9:41:32 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





WETLAND INSPECTION

April 14, 2018

APT Project No.: CT445170

Revised June 13, 2018

Prepared For: Phoenix Partnership
110 Washington Avenue
North Haven, CT 81506473
Attn: Keith Coppins

Site Name: CT1225 Hamden 2

Site Address: 796 Woodin Street, Hamden, Connecticut

Date(s) of Investigation: 1/31/2018 & 5/9/18

Field Conditions: **Weather:** sunny, mid 20's on 1/31/18; sunny, low 70's on 5/9/18
Soil Moisture: moist

Wetland/Watercourse Delineation Methodology*:

- Connecticut Inland Wetlands and Watercourses
- Connecticut Tidal Wetlands
- Massachusetts Wetlands
- U.S. Army Corps of Engineers

Municipal Upland Review Area/Buffer Zone:

Wetlands & Watercourses: 200 feet ; 100 feet non-disturbance zone

The wetlands inspection was performed by[†]:

Matthew Gustafson, Registered Soil Scientist

Enclosures: Wetland Delineation Field Forms & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.[‡] If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

* Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

† All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

‡ APT has relied upon the accuracy of information provided by Phoenix Partnership and its contractors regarding proposed lease area and access road/utility easement locations for identifying wetlands and watercourses within the study area.

Attachments

- Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

Wetland I.D.:	Wetland 1	
Flag #'s:	WF 1-01 to 1-70; 1-100 to 1-120 and 1-150 to 1-155	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Wetland 1 is a large seep wetland system with intermittent watercourses along the southwest and northeast boundaries of the subject property.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments:		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Western and southern extents of the subject property are dominated by mature forest with edges of scrub/shrub and emergent habitats along the central peripheries of the forested habitat as a result of clearing activities performed by the owner and creation of a horse paddock/barn.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: A watercourse, consisting of a deeply incised, sinuous system with steep banks and sandy/cobble bottom, is located along the western extents of the subject property running north to south. A second intermittent watercourse, consisting of a narrow/shallow bank with a mud bottom, starts as seep outbreak at the northeastern extents of the subject property.		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	American Elm (<i>Ulmus americana</i>)
Black Birch (<i>Betula lenta</i>)	Spicebush (<i>Lindera benzoin</i>)
Fox Grape (<i>Vitis labrusca</i>)	Green Ash (<i>Fraxinus pennsylvanica</i>)
Poison Ivy (<i>Toxicodendron radicans</i>)	Soft Rush (<i>Juncus effuses</i>)

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. (“APT”) understands that Phoenix Partnership is proposing the construction of a telecommunications facility (“Facility”) in the southern end of the subject property. The subject property consists of a residential home, horse paddock/barns and mature forest. Wetlands occupy a significant portion of the subject property, primarily along the eastern property boundary. The Facility would consist of a 70-foot by 40-foot fenced compound area hosting a monopole telecommunications tower and associated ground equipment. Access to the facility would be garnered off Woodin Street to the north and generally follow along the western property boundary.

Wetland 1 consists of a large hillside seep wetland system with two interior watercourses. The wetland is dominated by mature forest with some edge scrub/shrub and emergent areas associated with historic clearing of the subject property. This wetland generally drains north to south and west to east with several small ‘finger’ seeps that extend from the core wetland area along the east property boundary. Runoff from Wilbur Cross Parkway is conveyed through a channel and into a culvert at wetland flags WF 1-150/1-155 that flows under the horse paddock area eventually discharging into the main section of Wetland 1. The northern portion of this wetland system has experienced varying degrees of disturbance associated with clearing, filling, cutting, and manure/vegetation piles associated with the subject property’s residential and agricultural activities.

As currently presented, the proposed access and Facility location would not appear to result in a direct impact to wetland resources. However, development activities would be located in close proximity to wetland areas. APT recommends that a wetland impact evaluation be performed of the proposed Facility and access location. APT will provide a wetland impact evaluation under separate cover upon receipt of project site plans that provide clearing, grading and drainage details associated with the proposed Facility and access locations in relation to nearby wetland resources.

Wetland Delineation Field Form

Wetland I.D.:	Wetland 2	
Flag #'s:	WF 2-01 to 2-09	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Wetland 2 is a small seep system that feeds Wetland 1 off property to the south.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments:		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	American Elm (<i>Ulmus americana</i>)
Japanese Barberry* (<i>Berberis thunbergii</i>)	Spicebush (<i>Lindera benzoin</i>)
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. (“APT”) understands that Phoenix Partnership is proposing the construction of a telecommunications facility (“Facility”) in the southern end of the subject property. The subject property consists of a residential home, horse paddock/barns and mature forest. Wetlands occupy a significant portion of the subject property, primarily along the eastern property boundary. The Facility would consist of a 70-foot by 40-foot fenced compound area hosting a monopole telecommunications tower and associated ground equipment. Access to the facility would be garnered off Woodin Street to the north and generally follow along the western property boundary.

Wetland 2 consists of a relatively small forested hillside seep wetland system that sheet flows to the south, eventually converging with Wetland 1 on the adjoining property. Wetland 2 is buffered from the proposed Facility and access areas by an intermittent stream channel section of Wetland 1.

As currently presented, the proposed access and Facility location would not appear to result in a direct impact to wetland resources. However, development activities would be located in close proximity to wetland areas. APT recommends that a wetland impact evaluation be performed of the proposed Facility and access location. APT will provide a wetland impact evaluation under separate cover upon receipt of project site plans that provide clearing, grading and drainage details associated with the proposed Facility and access locations in relation to nearby wetland resources.



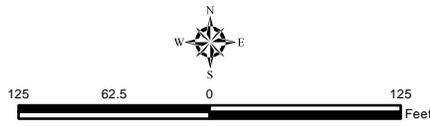
Legend

- Proposed Monopole Tower
- Proposed Site Layout
- Proposed Equipment
- Wetland Flag
- Approximate Wetland
- Delineated Wetland Boundary
- Intermittent Watercourse
- Existing Culvert (By Others)
- Existing Utility Pole (By Others)
- Subject Property
- Approximate Parcel Boundary (CTDEEP)

Wetland Inspection Map

Proposed Wireless Telecommunications Facility
 Hamden CT Relo
 796 Woodin Street
 Hamden, Connecticut

Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 125 feet
 Map Date: May 2018



TOWAIR Determination Results

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

Latitude	41-20-59.2 north
Longitude	072-57-45.3 west

Measurements (Meters)

Overall Structure Height (AGL)	37.8
Support Structure Height (AGL)	36.6
Site Elevation (AMSL)	34.4

Structure Type

MTOWER - Monopole

[Tower Construction Notifications](#)

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW