

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
A PETITION OF CELLCO PARTNERSHIP	:	PETITION NO. _____
D/B/A VERIZON WIRELESS FOR A	:	
DECLARATORY RULING ON THE NEED TO	:	
OBTAIN A SITING COUNCIL CERTIFICATE	:	
FOR THE INSTALLATION OF THREE SMALL	:	
CELL TELECOMMUNICATIONS FACILITIES	:	
AT THE WOODSTOCK FAIRGROUNDS,	:	
WOODSTOCK, CONNECTICUT	:	OCTOBER 29, 2014

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install three (3) pole-mounted “small cell” telecommunications facilities on the Woodstock Fairgrounds property in Woodstock, Connecticut (the “Property”). The Property consists of several parcels totaling approximately 40 acres and is owned by the Woodstock Agricultural Society (“WAS”).

II. Factual Background

Cellco currently maintains five (5) cell sites in the Towns of Woodstock, Pomfret, Putnam and Thompson which provide, to some extent, reliable wireless service into portions of southeast Woodstock, particularly along portions of Routes 169, 171 and local roads in the area

and to existing commercial, residential and agricultural land uses. Reliable service in and around the Woodstock Fairgrounds, however, remains problematic, particularly during the annual Woodstock Fair and other events at the fairgrounds that attract large crowds. During these events, Cellco experiences problems with reliable wireless service and network capacity. In an effort to resolve these localized service problems, Cellco intends to install three (3) pole-mounted “small cell” wireless facilities on the Property. Included in Attachment 1 is a Site Vicinity Map showing the location of the Property and the surrounding cell sites and a Site Schematic showing the three small cell facility locations on the Property.

A. Cellco’s Service

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Woodstock and throughout the State of Connecticut. Initially, the proposed Woodstock Fair “small cells” will provide wireless service in Cellco’s 700 MHz frequency range only. Coverage plots showing wireless service from Cellco’s existing facilities in and around Woodstock today and the coverage footprint for the three (3) proposed Woodstock Fairgrounds “small cell” facilities are included in Attachment 2.¹

B. Proposed “Small Cell” Facilities

Due to the overall size of the Property, Cellco proposes the installation of three (3) “small cell” facilities at the Woodstock Fairgrounds. A set of project plans for the proposed small cell facilities is included in Attachment 3.

1. Small Cell Location 1

The WAS currently maintains an existing 33-foot wood utility pole (Pole F5) adjacent to and south of the existing First Aid Building in the westerly portion of the Property. This pole

¹ The 700 MHz coverage area shown on the second plot is a cumulative footprint for all three (3) small cell facilities.

currently supports three (3) whip antennas. At this location (“SC #1”), Cellco proposes to replace an existing wood pole with a new galvanized steel pole of equal height (approximately 33’ above ground level (“AGL”)). The existing whip antennas would be relocated to the top of the new pole. Cellco would install a Model 9768 MRO B13 700 MHz small cell antenna at approximately 25 feet AGL on the new pole. Equipment associated with SC #1 would be located in a small equipment cabinet attached to the new pole, approximately five (5) feet above grade. (See Attachment 3, Sheet C-2 – Antenna Location #1). The SC #1 equipment cabinet will include a four (4) hour battery back-up power supply system. Service lines between the equipment cabinet and the antenna will be located inside the new pole. Utility service to SC #1 will extend overhead from an existing utility pole (Pole F4) located to the northeast of SC #1. Specifications for the “small cell” antennas is included in Attachment 4.

2. Small Cell Location 2

The WAS currently maintains an existing 28 foot wood utility pole (Pole B36) in a grassed area to the east of the First Aid building on the Property. This pole currently supports overhead electric service to existing light poles in the area. At this location (“SC #2”), Cellco proposes to replace an existing wood pole with a new galvanized steel pole of equal height (approximately 28.8 feet AGL). The new pole would continue to support overhead utility service. Cellco would install two (2) Model 9768 MRO B13 700 MHz small cell antennas at approximately 26 feet AGL on the new pole. Equipment associated with SC #2 would be located in a small equipment cabinet which will be attached to the new pole approximately five (5) feet above grade. (See Attachment 3, Sheet C-2 – Antenna Location #2). The SC #2 equipment cabinet will include a four (4) hour battery back-up power supply system. Service lines between the equipment cabinet and the antennas will be located inside the new pole. Utility service to SC

#2 will extend overhead from existing service to the northeast of SC #2. Specifications for the “small cell” antenna is included in Attachment 4.

3. Small Cell Location 3

The WAS currently maintains an existing 29-foot wood utility pole (Pole H24) in the northeast portion of the Property, south of the existing pump house. This pole currently supports area lighting fixtures. At this location (“SC #3”), Cellco proposes to replace an existing wood pole with a new galvanized steel pole of equal height (29.3 feet AGL). The existing lights would be relocated onto the new pole. Cellco would install one (1) Model 9768 MRO B13 700 MHz small cell antenna at approximately 27 feet AGL on the new pole. Equipment associated with SC #3 would be located in a small cabinet attached to the new pole approximately five (5) feet above grade. A separate utility interface cabinet would also be located inside the existing pump house to the north of SC #3. (See Attachment 3, Sheet C-2 – Antenna Location #3). The SC #3 equipment cabinet attached to the pole will include a four (4) hour battery back-up power supply system. Service lines between the equipment cabinet and the antennas will be located inside the new steel utility pole. Utility service to SC #3 will extend overhead from an existing utility service to the south of SC #3. Specifications for the “small cell” antenna is included in Attachment 4.

III. Discussion

A. The Proposed Facility Modifications Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the “Act”), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and

requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the replacement of three (3) existing utility poles, and the installation of “small cell” antennas and equipment cabinets on each pole, will not involve a significant alteration in the physical and environmental characteristics of the Property. Cellco’s new steel poles will be installed in the same location as the existing wood poles they will replace. Each of the existing wood poles is not structurally capable of supporting Cellco’s small cell antennas and related equipment. Service lines between the antennas and equipment will be installed inside the new steel poles. Vehicular access to each small cell location would extend from Route 169 and/or North Gate Road over existing paved and gravel driveways and parking areas located on the Property. No tree removal is required and only minimal ground disturbance is needed to install the replacement poles and related equipment. There are no wetland areas on the Property that will be impacted by the installation of the proposed small cell facilities. (See Attachment 5).

2. Visual Effects

The visibility of the proposed “small cell” facilities would be limited to those locations on the Property within the immediate site lines of each individual structure. Other than the color and a slightly larger diameter of the steel replacement pole, conditions at each “small cell” location will not change substantially. Based on the results of a Visual Assessment, Cellco has determined that the proposed “small cell” facilities on the property would have little or no adverse impact on existing views. (See Limited Visual Assessment and Photo-Simulations

included in Attachment 6).

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be far below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 7 is a worst-case MPE calculation for Cellco’s “small cell” antennas at 25 feet AGL, the lowest of the three antenna mounting heights. The “small cell” facilities described in this filing operate on power levels far below that of typical wireless base stations, and will, therefore, operate well within the RF emission standards established by the FCC.

4. FAA Summary Report

Included in Attachment 8 of this Petition are Federal Airways & Airspace Summary Reports verifying that none of the new replacement poles described above would constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to First Selectman, Property Owner and Abutting Landowners

On October 29, 2014, a copy of this Petition was sent to Woodstock First Selectman, Allan D. Walker, Jr. and to the WAS, the owner of the Property. Notice of Cellco’s intent to file this Petition was also sent to the owners of land that abuts the Property. Included in Attachment 9 is a copy of the letters sent to First Selectman Walker and the WAS, a sample abutter’s letter, and the list of those abutting landowners who were sent notice of the filing of the Petition.

IV. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of three (3) replacement poles used to support “small cell” wireless facilities at the Property will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of

Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

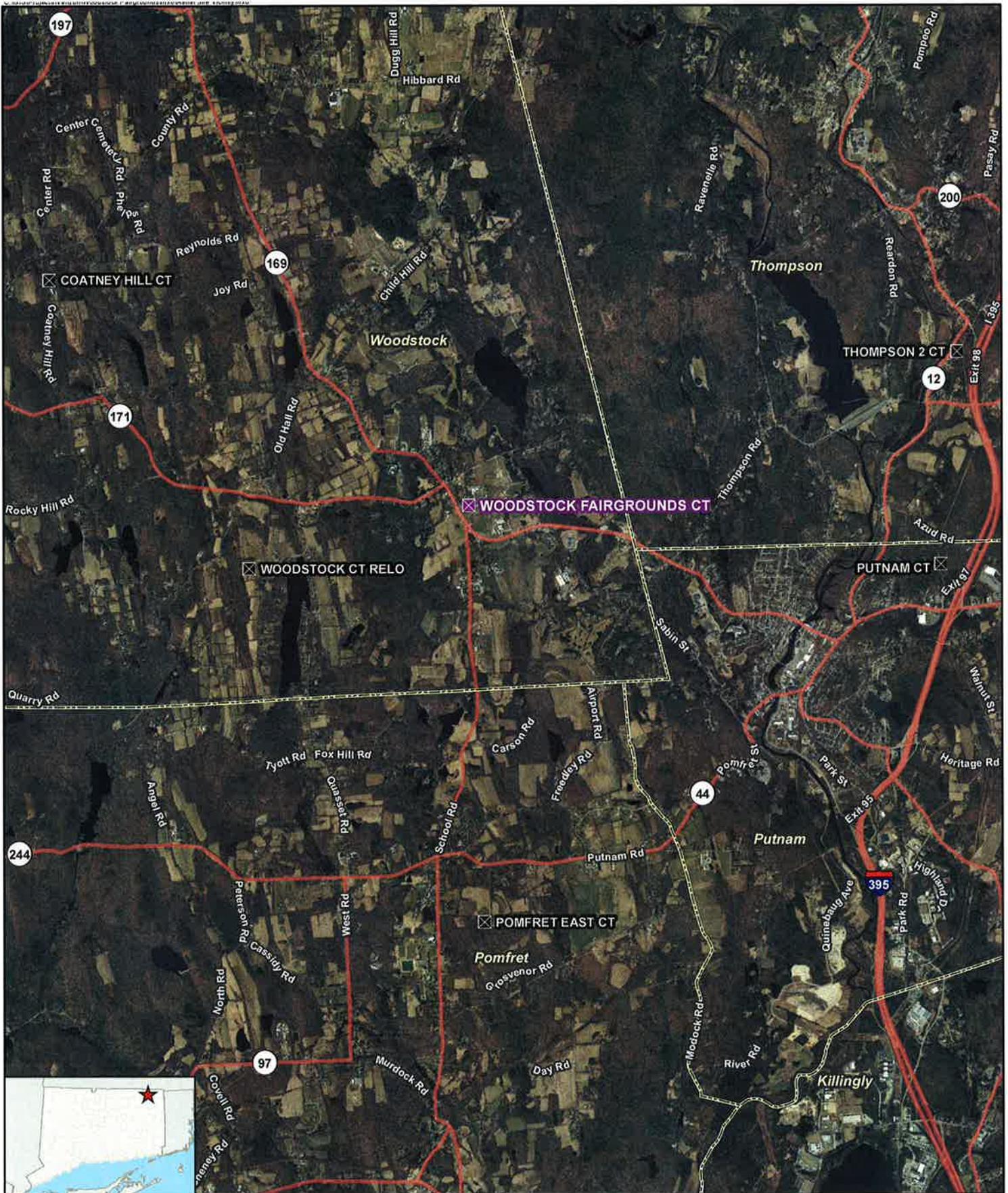
CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By



Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



Legend

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

Site Vicinity


 Proposed Wireless
 Telecommunications Facility
 Woodstock Fairgrounds CT
 281 Route 169
 Woodstock, Connecticut



Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Date: October 2014



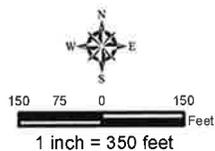
Legend

- Proposed Small Cell Site
- ▭ Approximate Host Property Boundary
- ▭ Approximate Parcel Boundary (CTDEEP GIS)

Site Schematic

Proposed Wireless
Telecommunications Facility
Woodstock Fairgrounds CT
281 Route 169
Woodstock, Connecticut

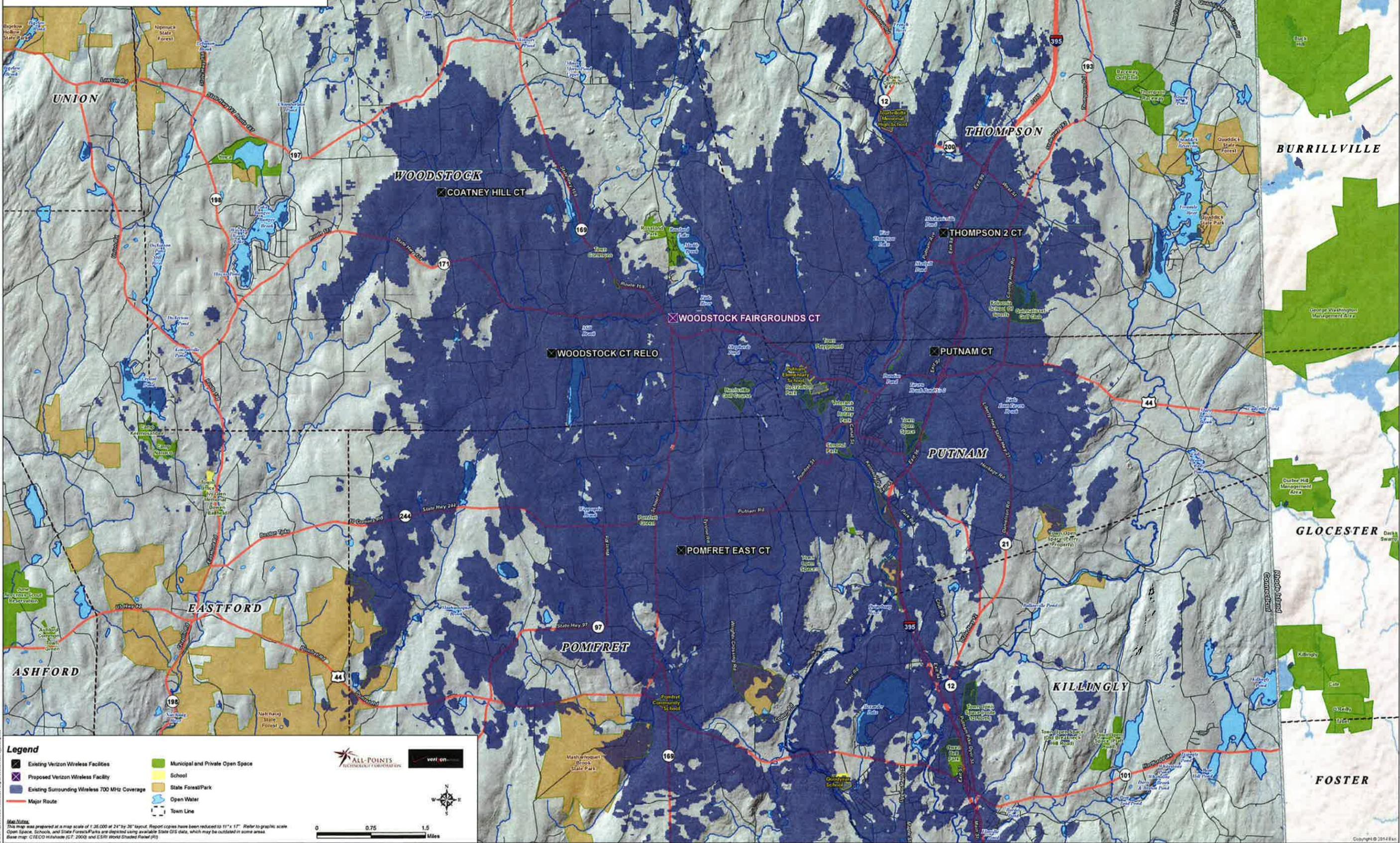
Map Notes:
Base Map Source: 2012 Aerial Photograph (CTECO)
Map Date: October 2014



ATTACHMENT 2

**Existing Verizon Wireless 700 MHz Coverage
Woodstock, Connecticut and Surrounding Area
(*Map Scale is 1:35,000)**

Coverage is depicted at a signal threshold of 120 dB Operational Path Loss



Legend

- Existing Verizon Wireless Facilities
- Proposed Verizon Wireless Facility
- Existing Surrounding Wireless 700 MHz Coverage
- Major Route
- Municipal and Private Open Space
- School
- State Forest/Park
- Open Water
- Town Line

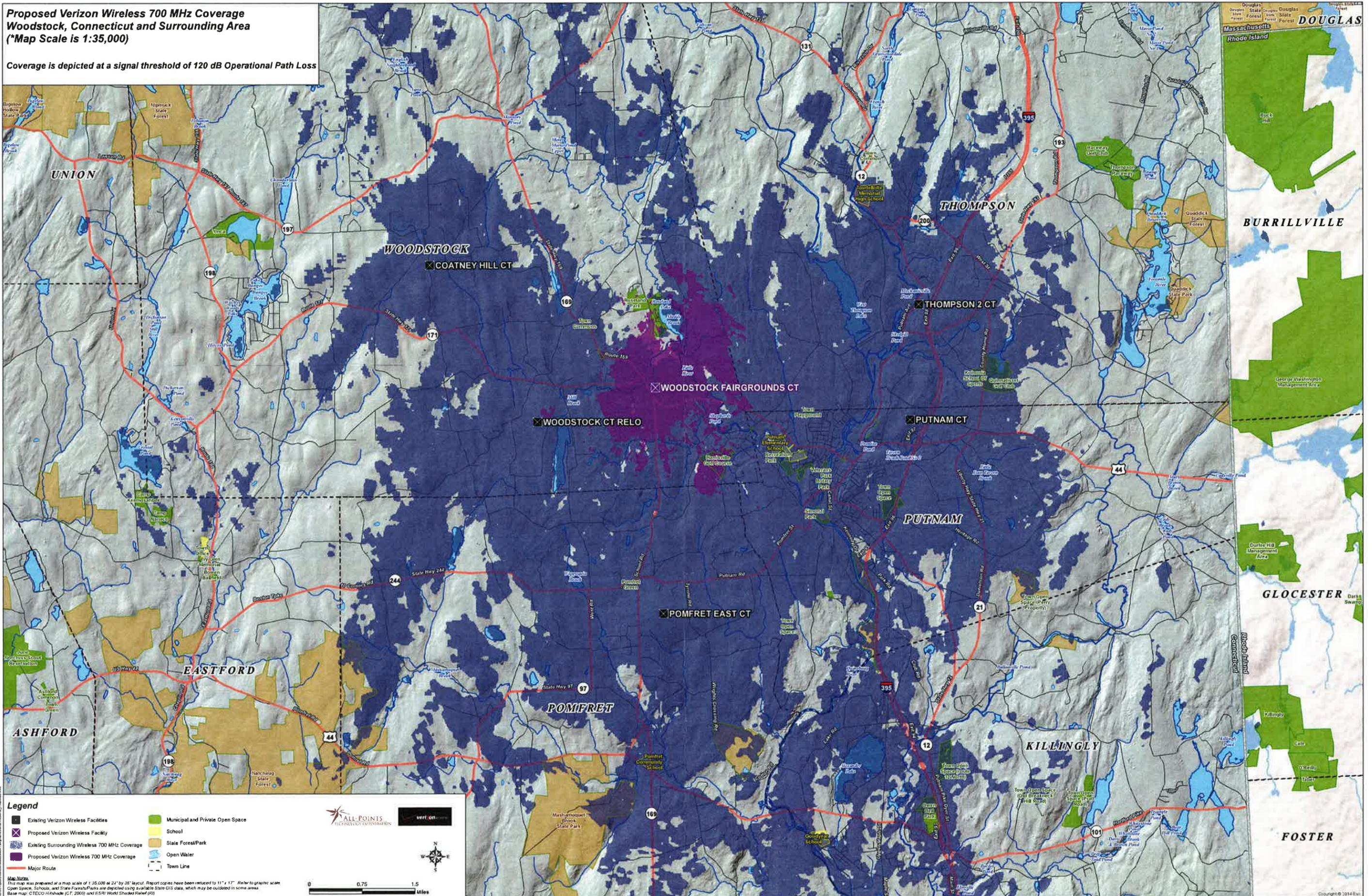
Map Notes:
This map was prepared at a map scale of 1:35,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale. Open Space, Schools, and State Forest/Parks are depicted using available State GIS data, which may be outdated in some areas. Base map: © FEGCO Holdings (c) 2000 and © 2011 World Geospatial (globe.com)

Scale: 0 0.75 1.5 Miles

Logos: ALL-POINTS TECHNOLOGY CORPORATION, verizon

**Proposed Verizon Wireless 700 MHz Coverage
Woodstock, Connecticut and Surrounding Area
(*Map Scale is 1:35,000)**

Coverage is depicted at a signal threshold of 120 dB Operational Path Loss



- Legend**
- Existing Verizon Wireless Facilities
 - Proposed Verizon Wireless Facility
 - Existing Surrounding Wireless 700 MHz Coverage
 - Proposed Verizon Wireless 700 MHz Coverage
 - Major Route
 - Municipal and Private Open Space
 - School
 - State Forest/Park
 - Open Water
 - Town Line

Map Notes:
This map was prepared at a map scale of 1:35,000 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: CTECO Hatched (CT, 2009) and ESRI World Shaded Relief (03)

ATTACHMENT 3

Cellco Partnership

d.b.a. **verizon** wireless

WIRELESS COMMUNICATIONS FACILITY

WOODSTOCK FAIRGROUNDS

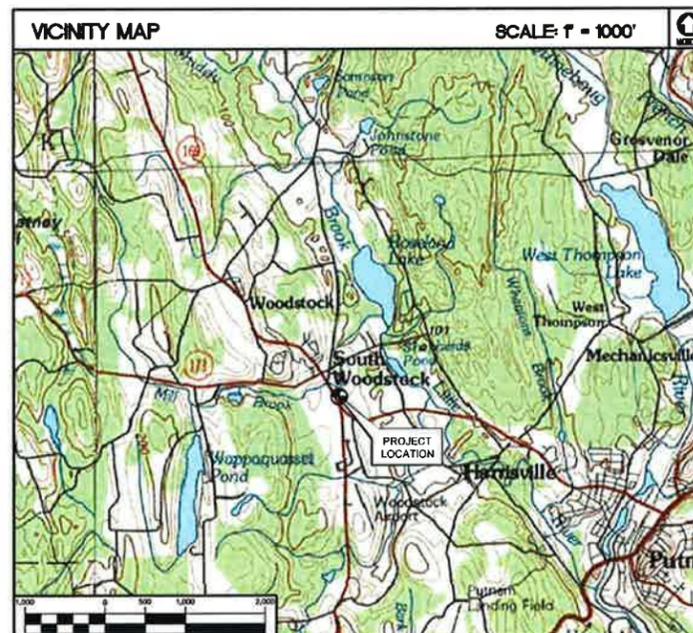
281 ROUTE 169

WOODSTOCK, CT 06281

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: 281 ROUTE 169 WOODSTOCK, CT 06281
1. Head northeast on E River Dr.	0.9 mi
2. Merge left onto I-84 E toward CT-2 E/Norwich	3.5 mi
3. Keep left to take I-84 toward Boston	26.8 mi
4. Take the CT-190 exit toward Union	0.2 mi
5. Turn right onto Buckley Hwy	1.9 mi
6. Turn right onto Bigelow Hollow Rd	4.1 mi
7. Turn right onto Eastford Rd	3.1 mi
8. Turn left onto Rt 171	3.7 mi
9. Turn slight right to stay on Rt 171	3.0 mi
10. Turn right onto Rt 169	0.2 mi

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

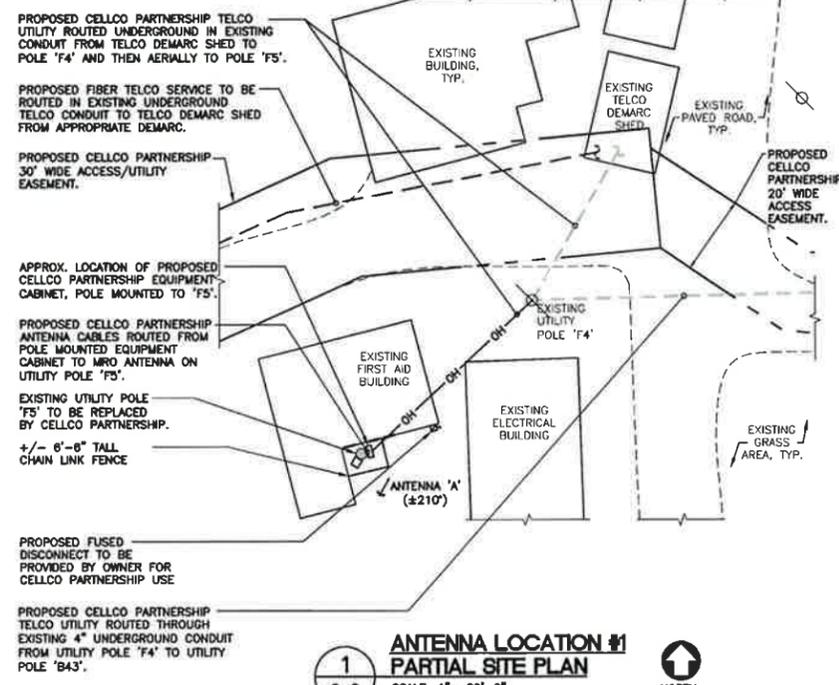
PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE REPLACEMENT OF (3) EXISTING UTILITY POLES AT RESPECTIVE PROPOSED ANTENNA LOCATIONS. EXISTING UTILITY POLES TO BE REPLACED BY CELCO PARTNERSHIP IN IMMEDIATE VICINITY OF THE EXISTING POLES.



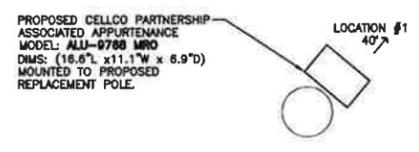
PROJECT SUMMARY	
SITE NAME:	WOODSTOCK FAIRGROUNDS
SITE ADDRESS:	281 ROUTE 169 WOODSTOCK, CT 06281
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELLCO PARTNERSHIP (860) 803-8219
ANTENNA LOCATION #1:	LATITUDE: 41°-56'-11.700"N LONGITUDE: 71°-57'-23.949"W GROUND ELEVATION: ±386.5'AMSL
ANTENNA LOCATION #2:	LATITUDE: 41°-56'-13.735"N LONGITUDE: 71°-57'-18.502"W GROUND ELEVATION: ±396.7'AMSL
ANTENNA LOCATION #3:	LATITUDE: 41°-56'-19.924"N LONGITUDE: 71°-57'-11.121"W GROUND ELEVATION: ±341.9'AMSL
COORDINATES & GROUND ELEVATION ARE REFERENCED FROM MARTINEZ COUCH AND ASSOCIATION L.L.C. FAA 1-A, DATED JULY 16, 2014	

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	SITE LOCATION PLAN	0
C-2	PARTIAL SITE PLANS AND ELEVATIONS	0

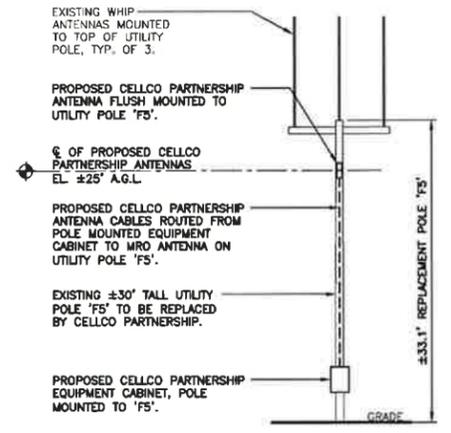
 Cellco Partnership d.b.a. Verizon Wireless	 CENTEK engineering (203) 488-0580 (203) 488-8587 Fax 63-2 North Branford Road Branford, CT 06405 www.CentekEng.com	Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY WOODSTOCK FAIRGROUNDS 281 RT 169 WOODSTOCK, CT 06281	DATE: 09/04/14 SCALE: AS NOTED JOB NO. 14093.000	TITLE SHEET	T-1 Sheet No. 1 of 3	PROFESSIONAL ENGINEER SEAL	09/07/14 DATE	0 REV.	0 DRAWN BY	0 CHECKED BY	0 ISSUED FOR	0 CSC-CLIENT REVIEW	0 DESCRIPTION



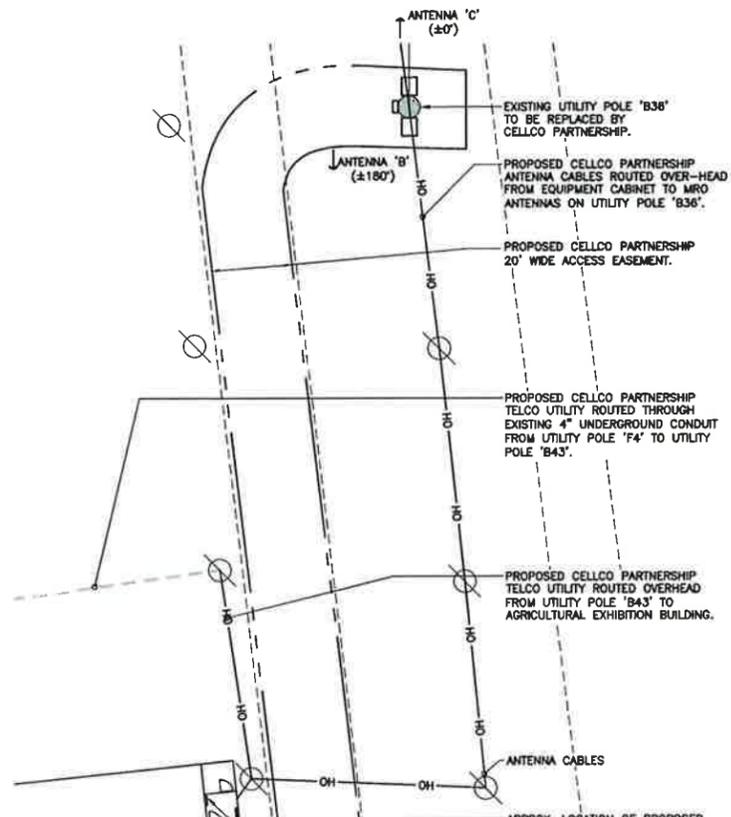
1 ANTENNA LOCATION #1 PARTIAL SITE PLAN
 SCALE: 1" = 20'-0"
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.



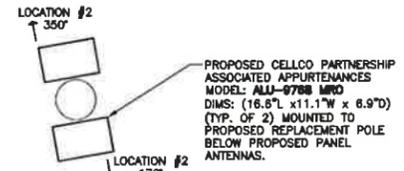
1A ANTENNA CONFIGURATION
 SCALE: 3/4" = 1' (LOCATION #1)



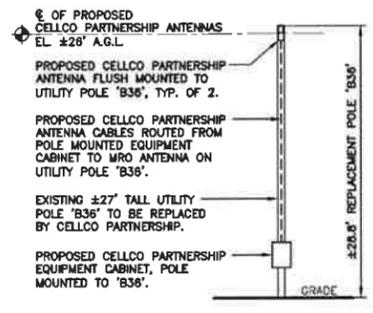
1B ANTENNA LOCATION #1 POLE 'F5' ELEVATION
 SCALE: 1" = 8'-0"



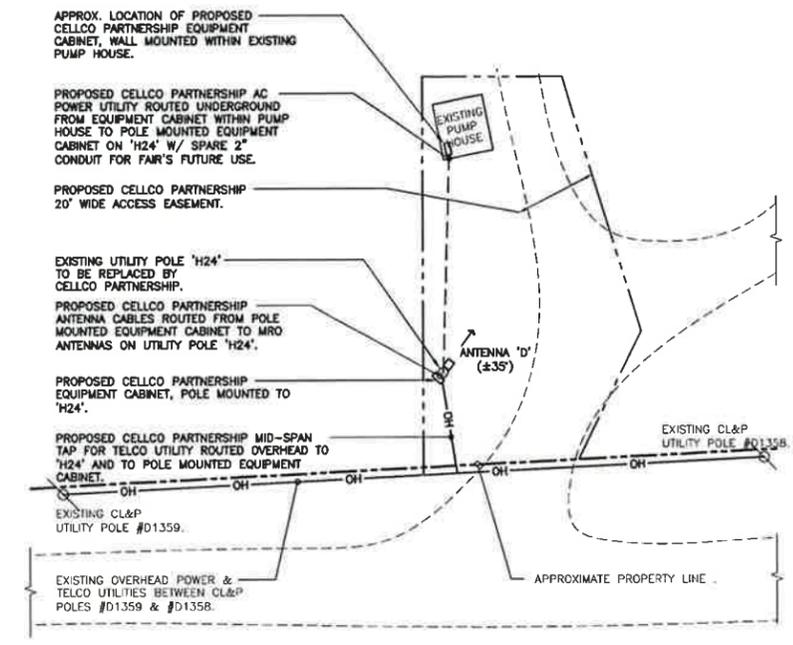
2 ANTENNA LOCATION #2 PARTIAL SITE PLAN
 SCALE: 1" = 20'-0"
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.



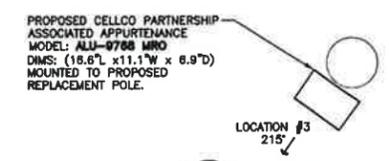
2A ANTENNA CONFIGURATION
 SCALE: 3/4" = 1' (LOCATION #2)



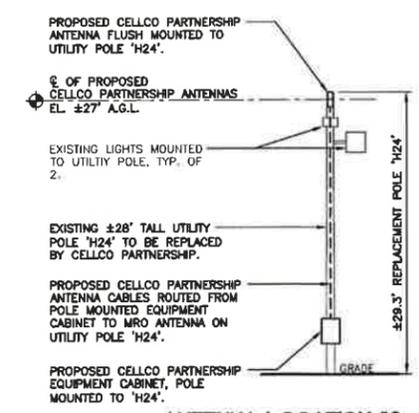
2B ANTENNA LOCATION #2 POLE 'B36' ELEVATION
 SCALE: 1" = 8'-0"



3 ANTENNA LOCATION #3 PARTIAL SITE PLAN
 SCALE: 1" = 20'-0"
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.



3A ANTENNA CONFIGURATION
 SCALE: 3/4" = 1' (LOCATION #3)



3B ANTENNA LOCATION #3 POLE 'H24' ELEVATION
 SCALE: 1" = 8'-0"

DATE	09/04/14
SCALE	AS NOTED
JOB NO.	14083.000
PARTIAL SITE PLANS AND ELEVATIONS	
C-2	
Sheet No. 3 of 3	

PROFESSIONAL ENGINEER SEAL	ISSUED FOR CSC-CLIENT REVIEW
DATE	09/15/14
REVISION	0
DATE	09/15/14
REVISION	0
DATE	09/15/14
REVISION	0
DATE	09/15/14
REVISION	0
DATE	09/15/14
REVISION	0

Cellco Partnership
d.b.a. Verizon Wireless

CEN-TEK engineering
 Central in Solutions
 2031 488-0580
 2031 488-8537 Fax
 65-2 North Branford Road
 Branford, CT 06405
 www.CenTekEng.com

Cellco Partnership d/b/a Verizon Wireless
 WIRELESS COMMUNICATIONS FACILITY
WOODSTOCK FAIRGROUNDS
 281 FT. 169
 WOODSTOCK, CT 06281

ATTACHMENT 4

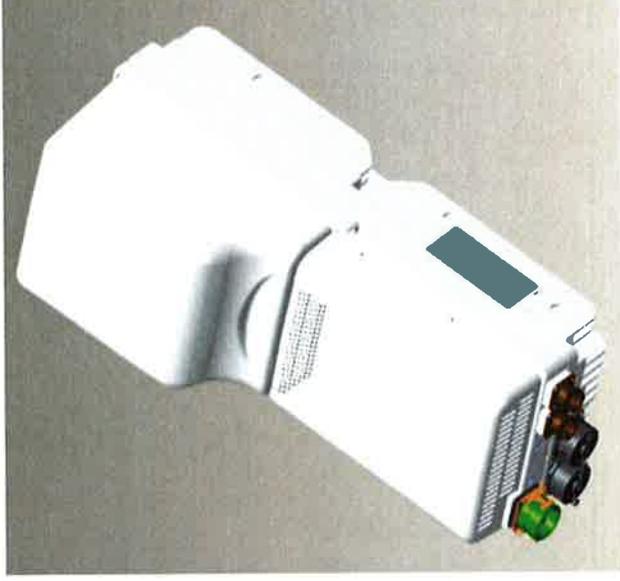
9768 MRO B13 (700U) V2.0

DC w/ antenna ports (miniDIN 4.1/9.5 connectors)

Orderable Mid June 2013

Supported with LA 6.0

- 3GPP frequency band 13 (700 MHz)
 - Supports LTE/FDD Rel-8/9, up to 20MHz channel BW
 - Single sector, 2x2 MIMO
- Low-power remote radio unit
 - RRH functionality
 - 2 Tx & 2 Rx via 2 duplex antenna ports
 - 27 dBm RF transmit power per antenna port (2x500 mW total)
 - Using innovative lightRadio™ cube technology
- 75W max power dissipation (DC input)
- Passive cooling
- Physical dimensions: ~21lb
 - 6.8"x17.9"x7.9" WidthxHeightxDepth
- CPRI over optical cable
 - 2 CPRI ports (CPRI line rates 2 to 6)
 - HW ready for daisy chaining



- Lightweight, small form factor product
- Full feature compatibility
- Suitable to meet capacity and coverage needs
 - Stadium & large public venues
 - In-Building Capacity,
 - Large Corp Enterprise, Campus,
 - DASS

ATTACHMENT 5



WETLAND INVESTIGATION

October 27, 2014

**Verizon Wireless
99 East River Drive
East Hartford, CT 06108**

APT Project No.: CT1414160

Attn: Alexandria Carter

**Re: Proposed Woodstock Fairgrounds Facility
281 Route 169
Woodstock, Connecticut**

Dear Ms. Carter,

All-Points Technology Corporation, P.C. ("APT") understands that three small cell wireless telecommunications facilities ("Facilities") are proposed by Verizon Wireless on the Woodstock Fairgrounds at 281 Route 169 in Woodstock, Connecticut ("Subject Property"). At your request, Dean Gustafson, a Connecticut registered Professional Soil Scientist with APT conducted an inspection of the Subject Property on October 15, 2014 to determine the presence or absence of wetlands and watercourses within approximately 200 feet of proposed development activities ("Study Area"). The delineation methodology followed was consistent with both the Connecticut Inland Wetlands and Watercourses Act (IWWA) and the *Corps of Engineers Wetland Delineation Manual* (1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, Version 2.0 (January 2012). The results of this wetland investigation are provided below.

Site and Project Description:

The Subject Property is comprised of three separate parcels and currently developed with multiple structures, paved and gravel access drives, animal pens and maintained lawn areas associated with the Woodstock Fairgrounds. The surrounding land use is primarily a mix of agricultural, institutional, commercial retail and residential development. The proposed Facilities would include the installation of antennas on three separate poles and related equipment cabinets in select locations of the fairgrounds identified as Antenna Locations #1, #2 and #3. The antennas would be placed on new monopoles that would replace existing utility poles of similar heights. Access to the Facilities is proposed to be gained via the existing paved and gravel drives that serve the fairgrounds.

One wetland area was delineated within the Study Area consisting of a perennial stream known as Mill Brook located along the western side of the fairgrounds on an adjoining parcel. Please refer to the enclosed Wetland Inspection Map for the approximate location of the identified wetland resource area. Wetlands were marked with pink and blue plastic flagging tape numbered with the following sequence: WF 1-01 to 1-12. General weather conditions encountered during the October inspection included mid 70° F temperatures with partly sunny skies.

Regulation of Wetlands:

Wetlands and watercourses are regulated by local, state and federal regulations, with each regulatory agency differing slightly in their definition and regulatory authority of resource areas, as discussed below. The proposed Facility is under the exclusive jurisdiction of the State of Connecticut Siting Council and therefore exempt from local regulation, although local wetland regulations are considered by the Siting Council. If wetlands are identified on the

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

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

P.O. BOX 504 · 116 GRANDVIEW ROAD · CONWAY, NH 03818 · PHONE 603-496-5853 · FAX 603-447-2124

Subject Property and direct impact is proposed, those wetlands may be considered Waters of the United States and therefore the activity may also be subject to jurisdiction by the U.S. Army Corps of Engineers (“ACOE”) New England District.

Town of Woodstock: The Town of Woodstock regulates activities within wetlands and watercourses and within 100 feet of wetlands and within 125 feet of any continuous (perennial) watercourses through administration of the Connecticut Inland Wetlands and Watercourses Act (“IWWA”).

State of Connecticut: **Freshwater Wetlands:** The IWWA requires the regulation of activities affecting or having the potential to affect wetlands under Sec. 22a-36 through 22a-45 of the Connecticut General Statutes. The IWWA is administered through local municipalities. The IWWA defines wetlands as areas of poorly drained, very poorly drained, floodplain, and alluvial soils, as delineated by a soil scientist. Watercourses are defined as bogs, swamps, or marshes, as well as lakes, ponds, rivers, streams, etc., whether natural or man-made, permanent or intermittent. Intermittent watercourse determinations are based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus; (2) the presence of standing or flowing water for a duration longer than a particular storm incident; and (3) the presence of hydrophytic vegetation.

ACOE: The U.S. Army Corps of Engineers regulates the discharge of dredged or fill material into waters of the United States under Section 404 of the Clean Water Act. Waters of the United States are navigable waters, tributaries to navigable waters, wetlands adjacent to those waters, and/or isolated wetlands that have a demonstrated interstate commerce connection. The ACOE Wetlands Delineation Manual defines wetlands as “[t]hose areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.”

Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) prohibits the unauthorized obstruction or alteration of any navigable water of the United States. This section provides that the construction of any structure in or over any navigable water of the United States, or the accomplishment of any other work affecting the course, location, condition, or physical capacity of such waters is unlawful unless the work has been approved by the ACOE.

Soil Description:

Soil types encountered throughout the Study Area were generally consistent with digitally available soil survey information obtained from the Natural Resources Conservation Service (“NRCS”)¹. Wetland soils field identified consist of Pootatuck fine sandy loam. The non-wetland soils were examined along the wetland boundary and more distant upland areas during the delineation, including the proposed Facility location. They are dominated by Woodbridge fine sandy loam, Paxton and Montauk fine sandy loams and Merrimac sandy loam. Detailed descriptions of wetland and upland soil types are provided below.

¹ NRCS Web Soil Survey, <http://websoilsurvey.nrcs.usda.gov/app/>, accessed on October 27, 2014.

Wetland Soils:

The **Pootatuck** series consists of very deep, moderately well drained loamy soils formed in alluvial sediments. They are nearly level soils on floodplains subject to common flooding. Slope ranges from 0 to 3 percent. Permeability is moderate or moderately rapid in the loamy upper horizons and rapid or very rapid in the sandy substratum layers.

Upland Soils:

The **Merrimac** series consists of very deep, somewhat excessively drained soils formed in glacial outwash. They are nearly level to very steep soils on outwash terraces and plains and other glacio-fluvial landforms. Sandy loam textures do not extend below a depth of 27 inches, but a minimum thickness of 5 inches of sandy loam overlies any lower B or 2C horizon that is loamy fine sand or coarser.

The **Paxton** and **Montauk** series consists very deep, well drained loamy soils formed in subglacial till derived primarily from granitic materials. The soils formed in thick moderately coarse or medium textured glacial till mantles underlain by firm to dense sandy till (known locally as hardpan). They are nearly level to steep soils on till plains, hills, and drumlins. The depth to the densic contact and material is commonly 20 to 40 inches but the range includes 18 to 40 inches. Depth to bedrock is commonly more than 6 feet. Permeability is moderate or moderately rapid in the solum and slow or moderately slow in the substratum.

The **Woodbridge** series consists of moderately well drained loamy soils formed in compact, subglacial till. They are very deep to bedrock. They are nearly level to moderately steep soils on till plains, hills, and drumlins. Depth to the compact layer (hardpan) is 18 to 40 inches. Depth to bedrock is commonly more than 6 feet. Woodbridge soils have a seasonal high water table on top of the compact layer (18-40") from fall through late spring.

Wetlands Discussion:

Wetland 1 Classification Summary:

Wetland 1 ² (WF 1-01 to 1-12)	System Riverine	Subsystem Lower Perennial	Class Forested	Subclass Broad-leaved Deciduous	Water Regime	Special Modifier
Watercourse Type (Mill Brook)	Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>	Special Aquatic Habitat (None)	Vernal Pool <input type="checkbox"/>	Other <input type="checkbox"/>

Wetland 1 Description:

Wetland 1 is associated with the east bank of Mill Brook, a perennial watercourse, located along the west boundary of the Subject Property. Mill Brook flows generally to the northeast, eventually draining into Roseland Lake located ±0.5 mile northeast of the Woodstock Fairgrounds. Maintained lawn and concrete block armored banks characterize large portions of the delineated section of Mill Brook. A footbridge is located near wetland flag WF 1-03 providing pedestrian access from the main fairgrounds entrance to a lawn area located on the north side of the brook. Areas of the stream bank not altered by these anthropogenic features consist of narrow fringes of alluvial and upland glacial till soils with upland forest cover.

² Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Jamestown, ND: Northern Prairie Wildlife Research Center Online. <http://www.npwrc.usgs.gov/resource/wetlands/classwet/index.htm - contents>.

Wetland 1 Dominant Vegetation:

Dominant Wetland Species Common Name (Latin Name)	Dominant Adjacent Upland Species Common Name (Latin Name)
maintained lawn	maintained lawn
Black Willow (<i>Salix nigra</i>)	American Beech (<i>Fagus grandifolia</i>)
Red Maple (<i>Acer rubrum</i>)	Northern Red Oak (<i>Quercus rubra</i>)
Silky Dogwood (<i>Cornus amomum</i>)	Black Oak (<i>Quercus velutina</i>)
Multiflora Rose* (<i>Rosa multiflora</i>)	Sugar Maple (<i>Acer saccharum</i>)
Asiatic Bittersweet* (<i>Celastrus orbiculatus</i>)	Witchhazel (<i>Hamamelis virginiana</i>)
	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>)
	Japanese Barberry* (<i>Berberis thunbergii</i>)
	Winged Euonymus* (<i>Euonymus alata</i>)
	Christmas Fern (<i>Polystichum acrostichoides</i>)
	Asiatic Bittersweet* (<i>Celastrus orbiculatus</i>)

* denotes Connecticut Invasive Plants Council invasive species

Summary:

Based on a review of the Site Location Plan prepared by Centek Engineering (Sheet No. C-1, latest revision date 09/10/14) and APT's field observations, no direct impact to wetlands or watercourses is associated with the proposed Verizon Wireless development. The closest activities proposed by Verizon Wireless to wetlands or watercourses is at Antenna Location #1, which is ±175 feet south of wetland flag WF 1-05. No temporary impacts associated with construction activities are anticipated provided sedimentation and erosion controls are designed, installed and maintained during construction activities in accordance with the *2002 Connecticut Guidelines For Soil Erosion and Sediment Control*. Long term secondary impacts to wetland and watercourse resources possibly associated with the operation of these Facilities are minimized by the fact the proposed three antenna locations consist of existing developed areas associated with the fairgrounds, Verizon Wireless' Facilities are unmanned, they do not result in the creation of impervious surfaces or stormwater runoff and the Facilities create minimal traffic. Therefore, it is APT's opinion that the proposed Verizon Wireless development will not result in a likely adverse impact to wetland or watercourse resources.

If you have any questions regarding the above-referenced information, please feel free to contact me by telephone at (860) 663-1697 ext. 201 or via email at dgustafson@allpointstech.com.

Sincerely,

All-Points Technology Corporation, P.C.



Dean Gustafson
Professional Soil Scientist

Enclosure

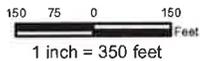
Wetland Inspection Map



Legend

- ⊙ Proposed Small Cell Site
- ▲ Wetland Flag
- Field Delineated Wetland Boundary
- - - - Field Identified Approximate Wetland Boundary

- Approximate Host Property Boundary
- Approximate Parcel Boundary (CTDEEP GIS)



Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Date: October 2014

Wetland Inspection Map

Proposed Wireless
 Telecommunications Facility
 Woodstock Fairgrounds CT
 281 Route 169
 Woodstock, Connecticut



ATTACHMENT 6

Limited Visual Assessments and Photo-Simulations

WOODSTOCK FAIRGROUNDS
281 ROUTE 169
WOODSTOCK, CT



Prepared in October 2014 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless



LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installations of three small cell wireless telecommunications Facilities on the Woodstock Fairgrounds at 281 Route 169 in Woodstock, Connecticut ("host property").

Project Setting

The host property is comprised of two separate parcels and currently developed with multiple structures associated with fair activities. The surrounding land use is primarily a mix of agricultural, institutional and sparse residential development. The proposed Facilities would include the installation of antennas on three separate poles and related equipment cabinets in select locations of the fairgrounds. The antennas would be placed on new monopoles that would replace existing utility poles of similar heights.

Methodology

On October 17, 2014, APT personnel conducted a field reconnaissance to determine where the existing utility poles are visible and to photo-document existing conditions. Three unobstructed views are present in the attachments of existing and proposed conditions. The geographic coordinates of the camera's position at each photo location were logged via GPS. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens, with the lens set to 50 mm, which is generally similar to what the human eye might perceive.

*"The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm."*¹

Three-dimensional computer models were developed for the existing utility poles and components of the proposed installations from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installations. Using field data, site plan information and image editing software, the proposed Facilities were scaled to the correct locations and heights, relative to the existing structures and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

Conclusions

The visibility of the proposed installations would be limited to locations on the fairgrounds and within the immediate sight lines of the structures. Other than the color and slightly larger diameter of the steel replacement poles, conditions will not be changed substantially. Based on the results of this assessment, it is our opinion that the proposed installations of Verizon Wireless equipment at the Woodstock Fairgrounds would have little to no adverse impact on existing views.

¹ Warren, Bruce. Photography, West Publishing Company, Eagan, MN, c. 1993, (page 70).

² When viewing in this format size, we believe it is important to provide the largest representational image while maintaining an accurate relation of sizes between objects within the frame of the photograph and depicting the subject in a way similar to what an observer might see, to the greatest extent possible.

ATTACHMENTS

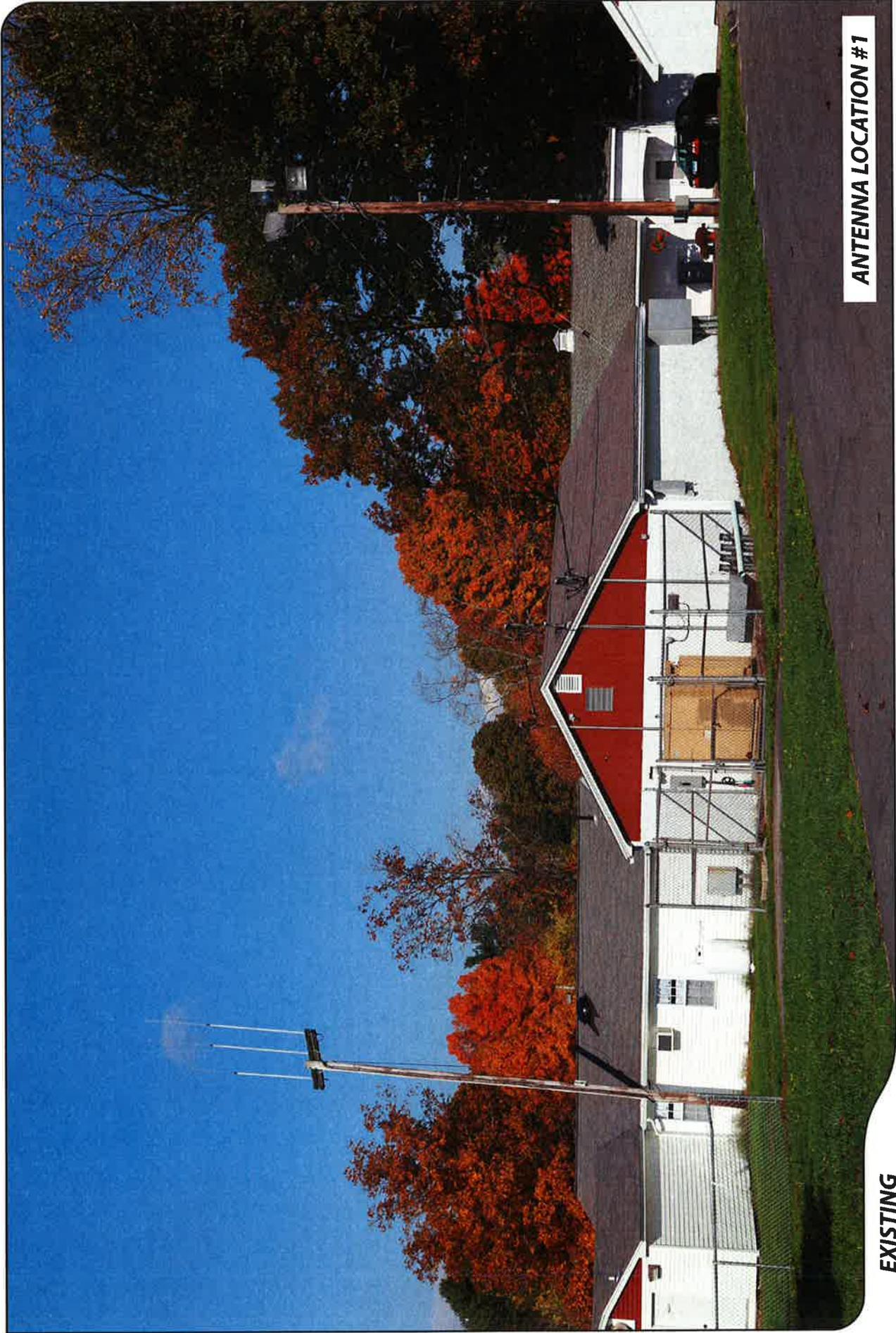


PHOTO LOG

Legend

- Proposed Small Cell Site
- Approximate Host Property Boundary
- Photo Location
- Approximate Parcel Boundary (CTDEEP GIS)





EXISTING

PHOTO

1

LOCATION

HOST PROPERTY

ANTENNA LOCATION #1

ORIENTATION

NORTHWEST

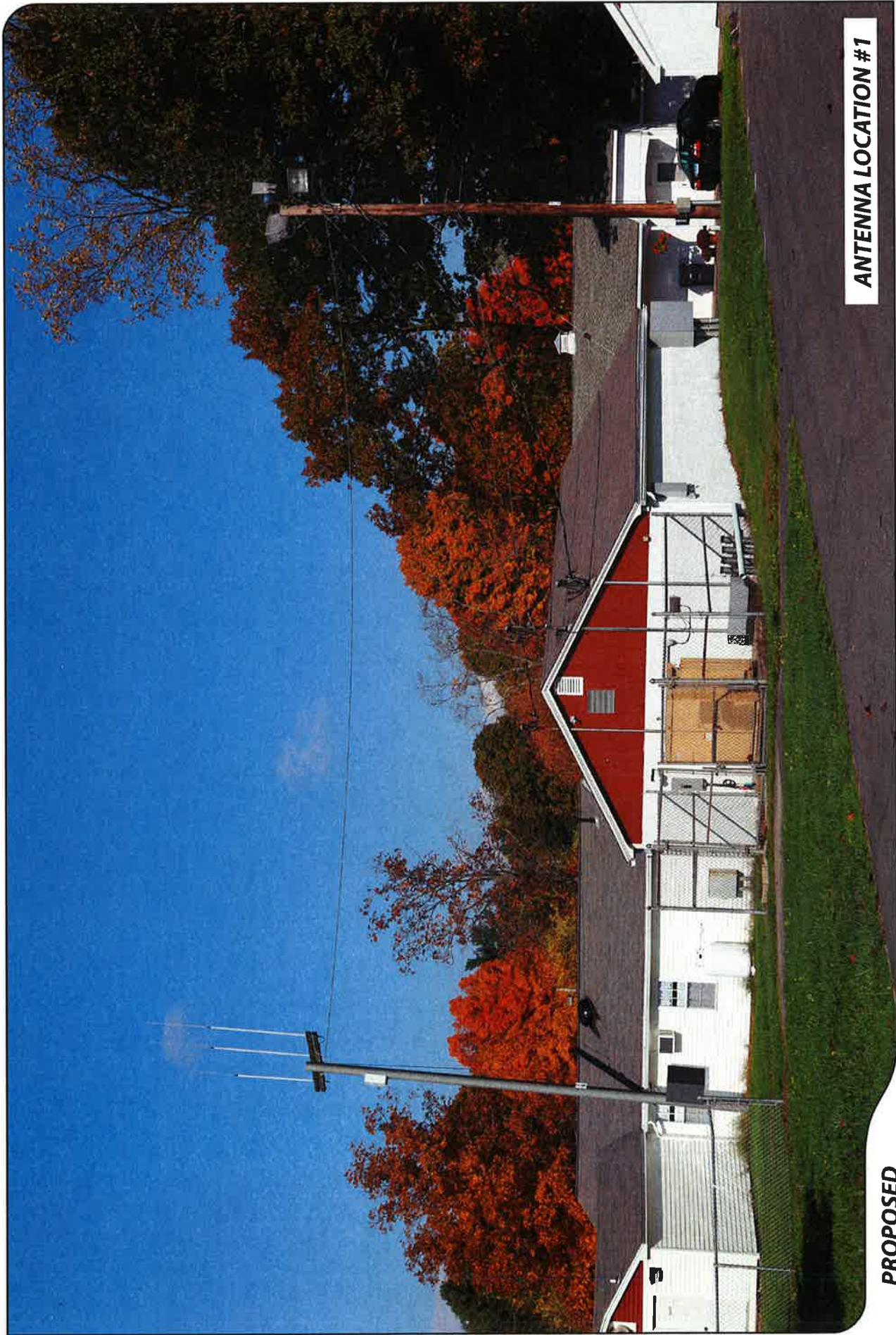
DISTANCE TO SITE

+/- 130 FEET



**ALL-POINTS
TECHNOLOGY CORPORATION**





PROPOSED

PHOTO

1

LOCATION

HOST PROPERTY

ANTENNA LOCATION #1

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 130 FEET

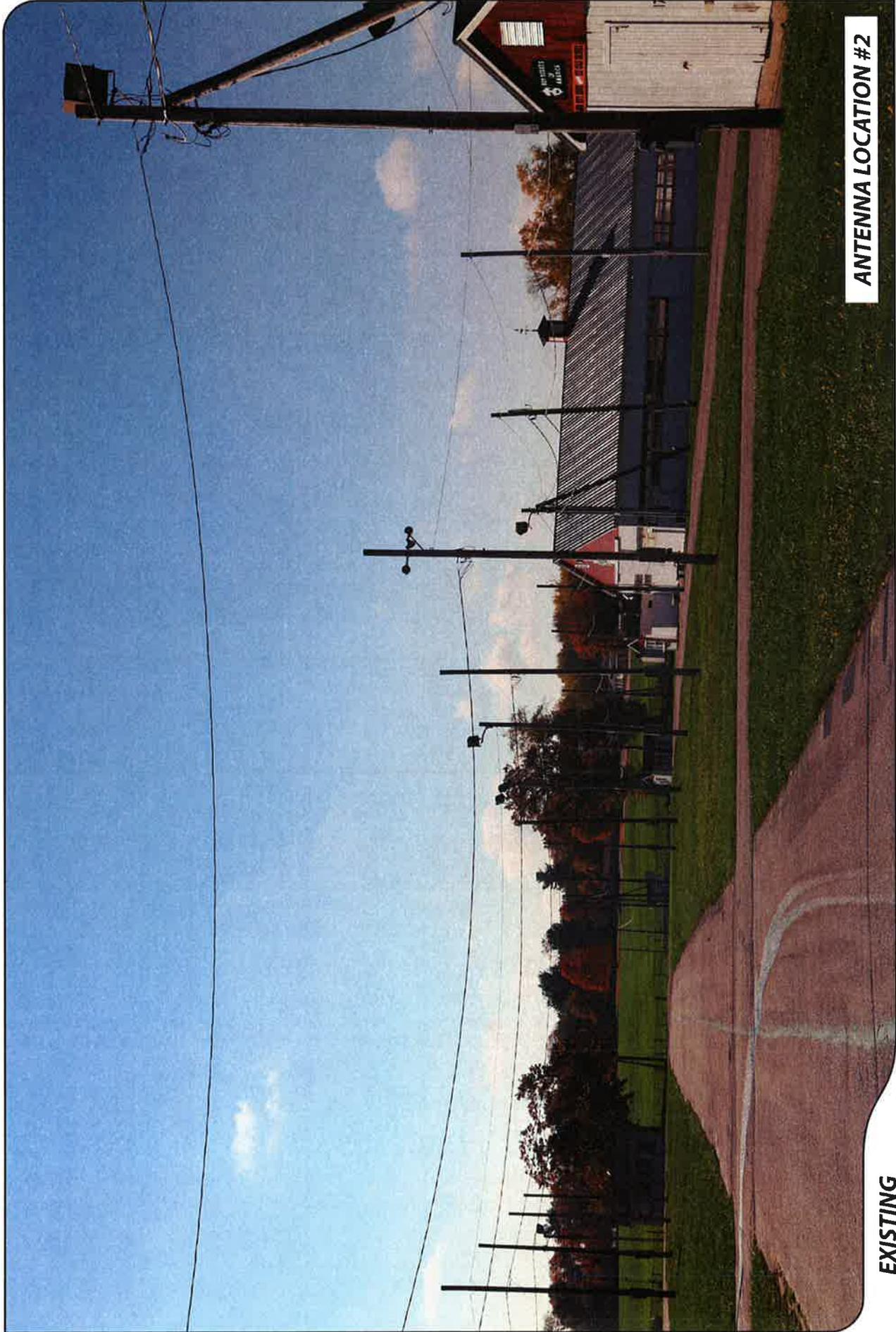


ANTENNA LOCATION #1

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	HOST PROPERTY	NORTHWEST	+/- 130 FEET





ANTENNA LOCATION #2

EXISTING

PHOTO

2

LOCATION

HOST PROPERTY

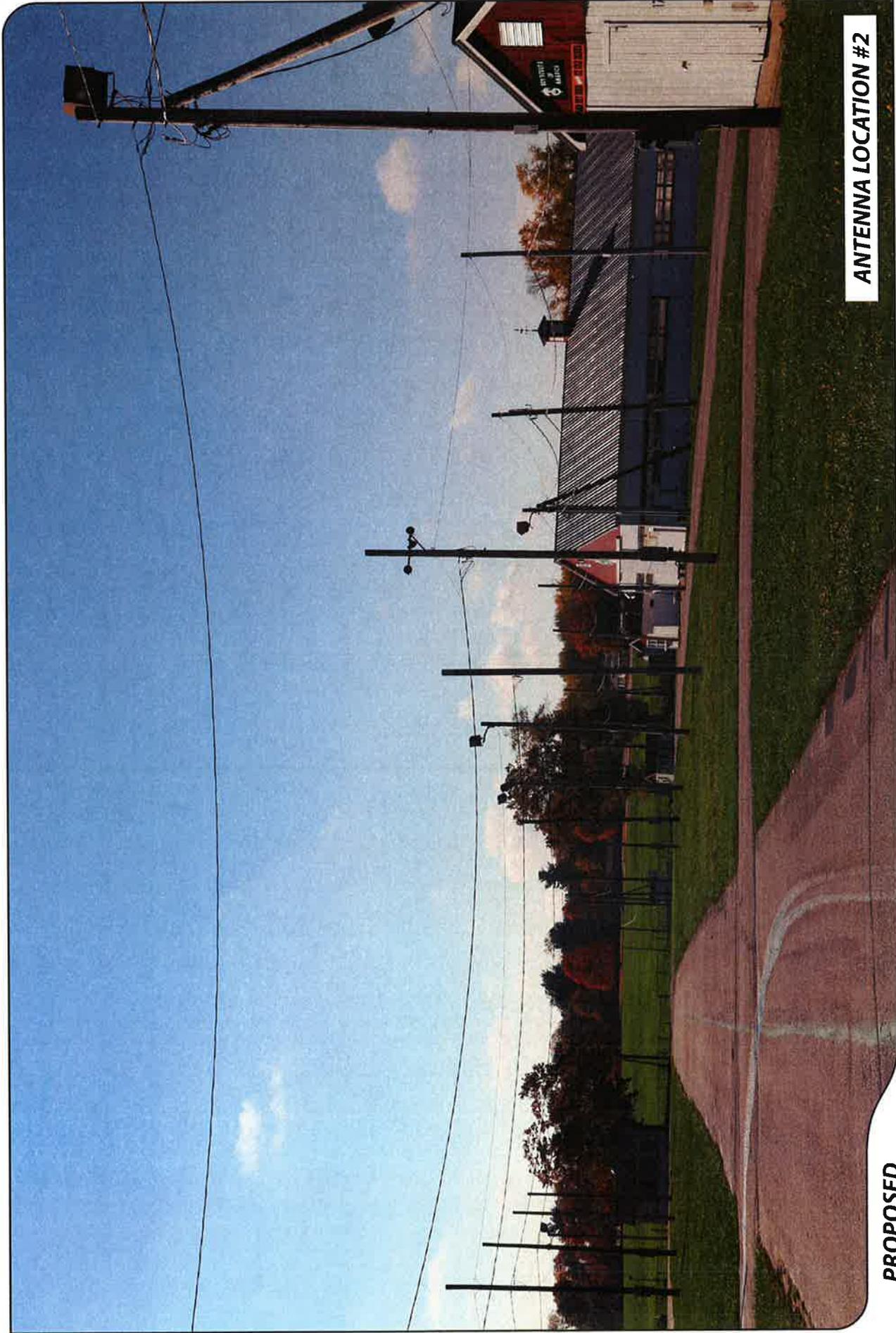
ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 202 FEET





ANTENNA LOCATION #2

PROPOSED

PHOTO

2

LOCATION

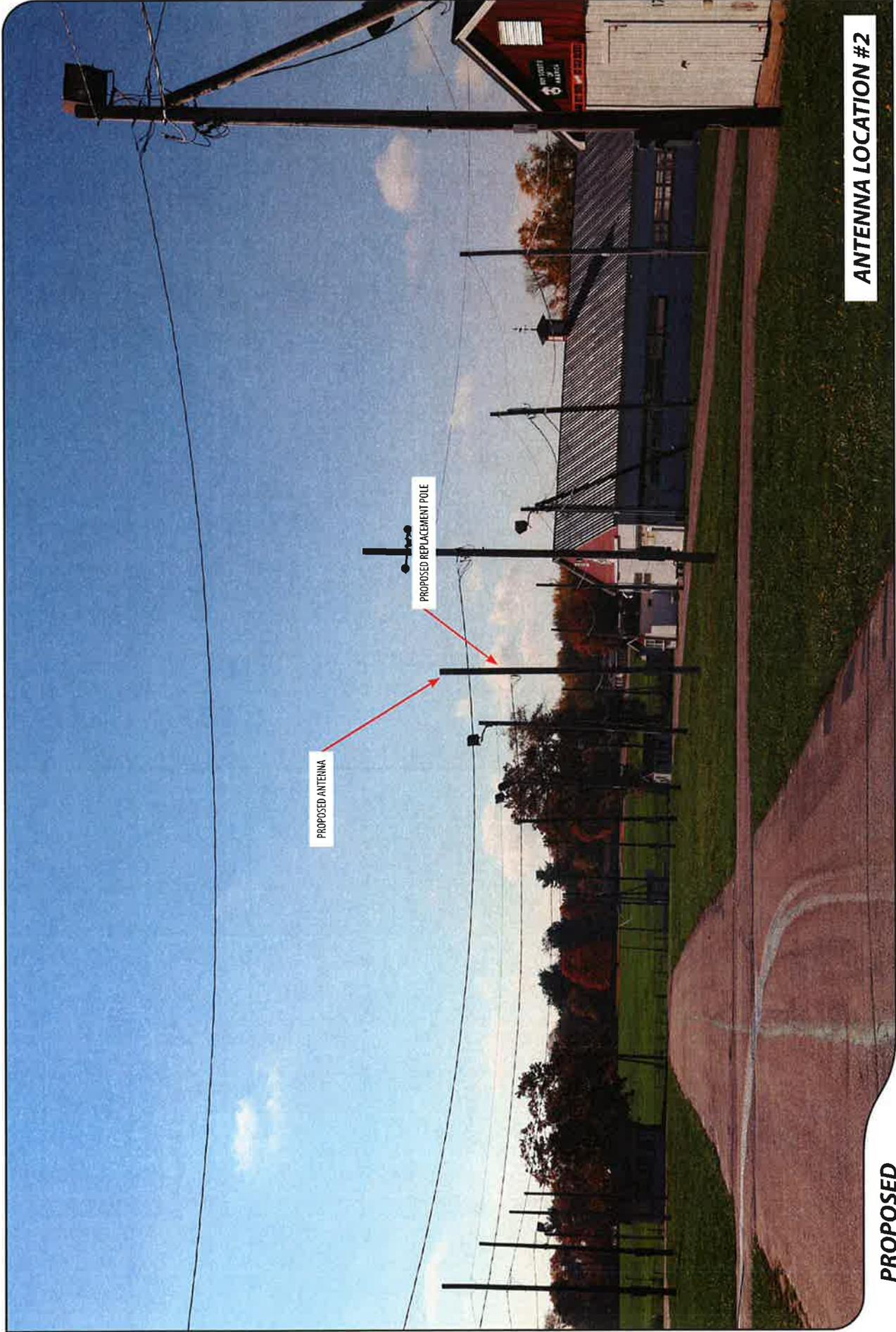
HOST PROPERTY

ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 202 FEET



PROPOSED

PHOTO

2

LOCATION

HOST PROPERTY

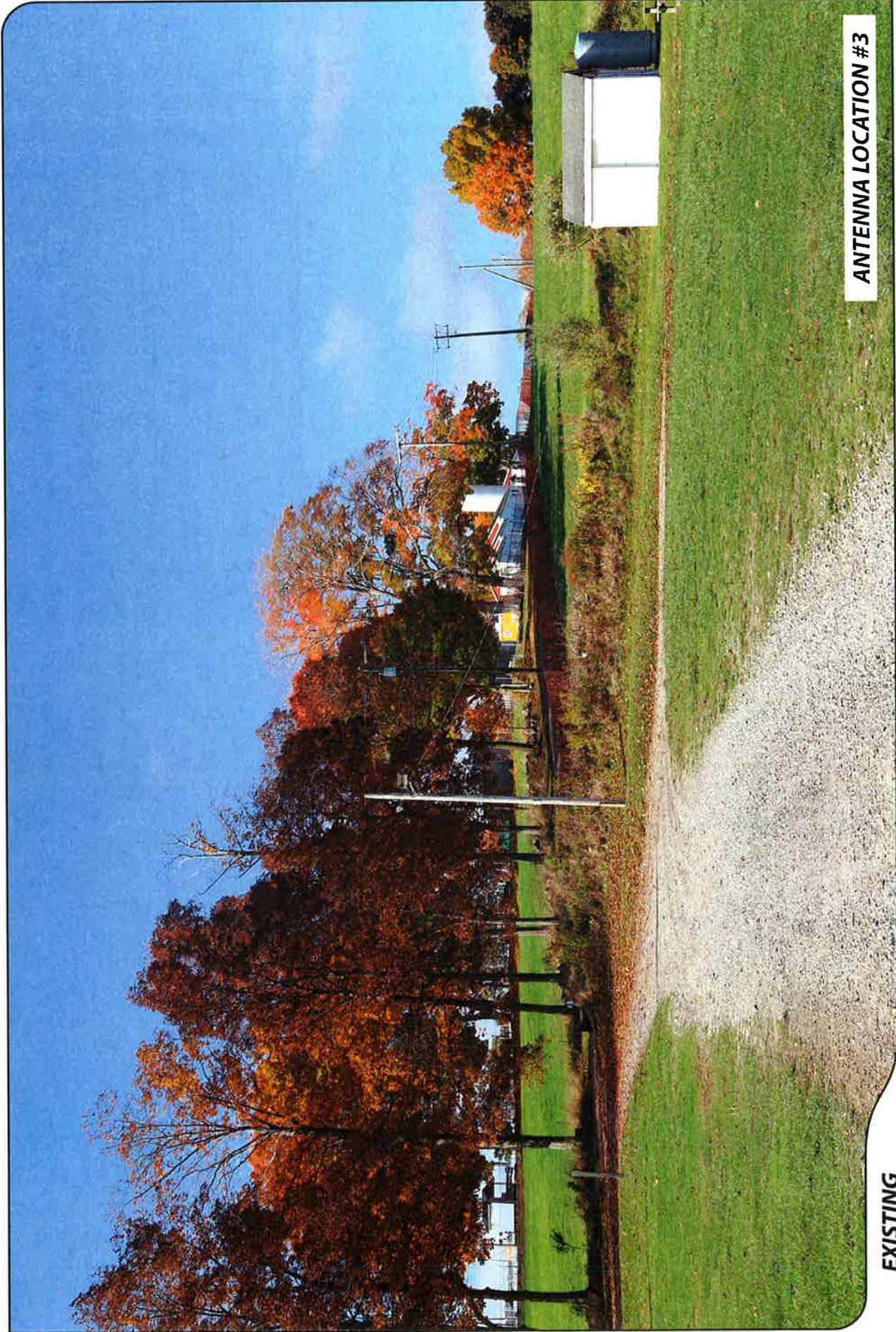
ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 202 FEET

ANTENNA LOCATION #2



ANTENNA LOCATION #3

EXISTING

PHOTO

3

LOCATION

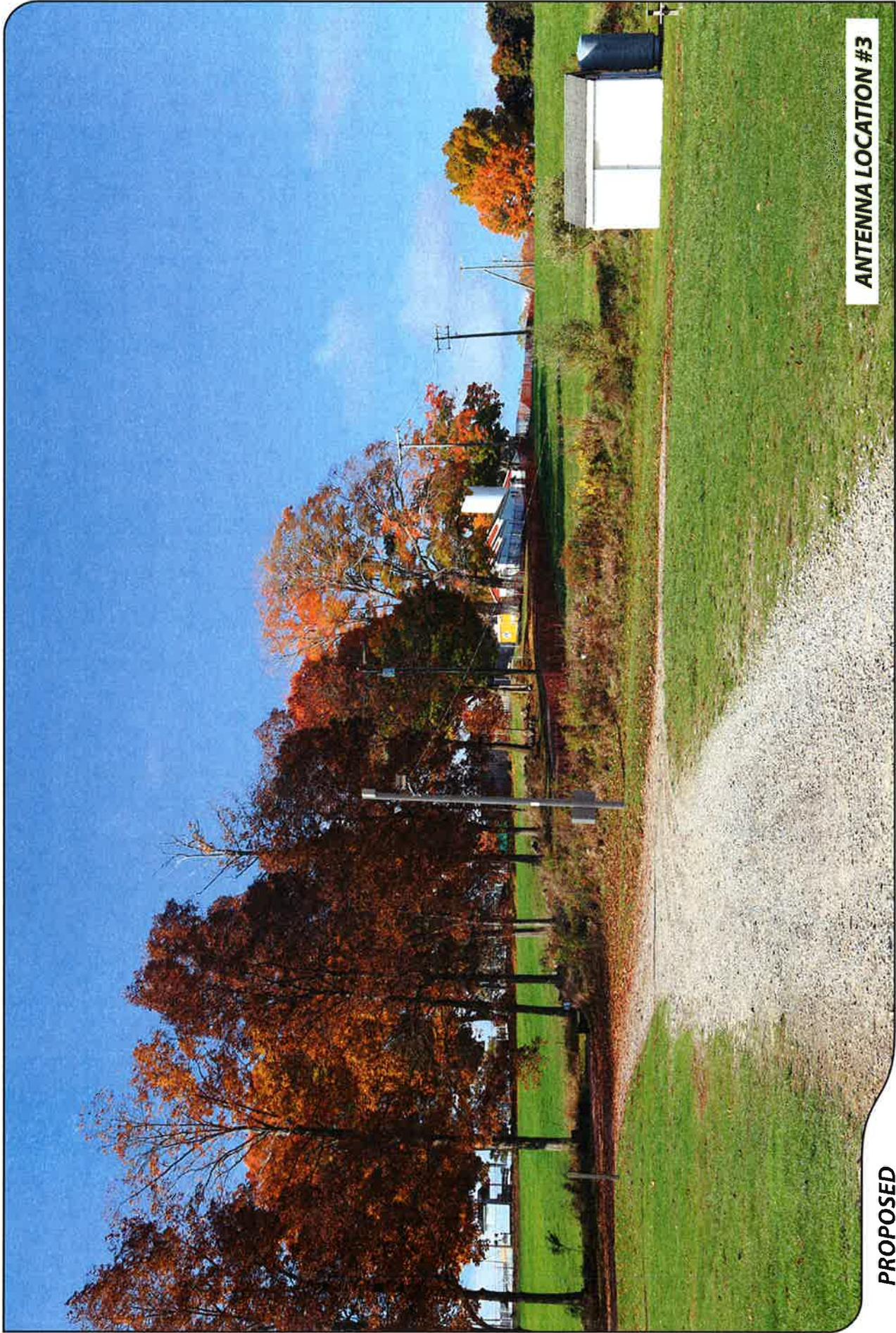
HOST PROPERTY

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

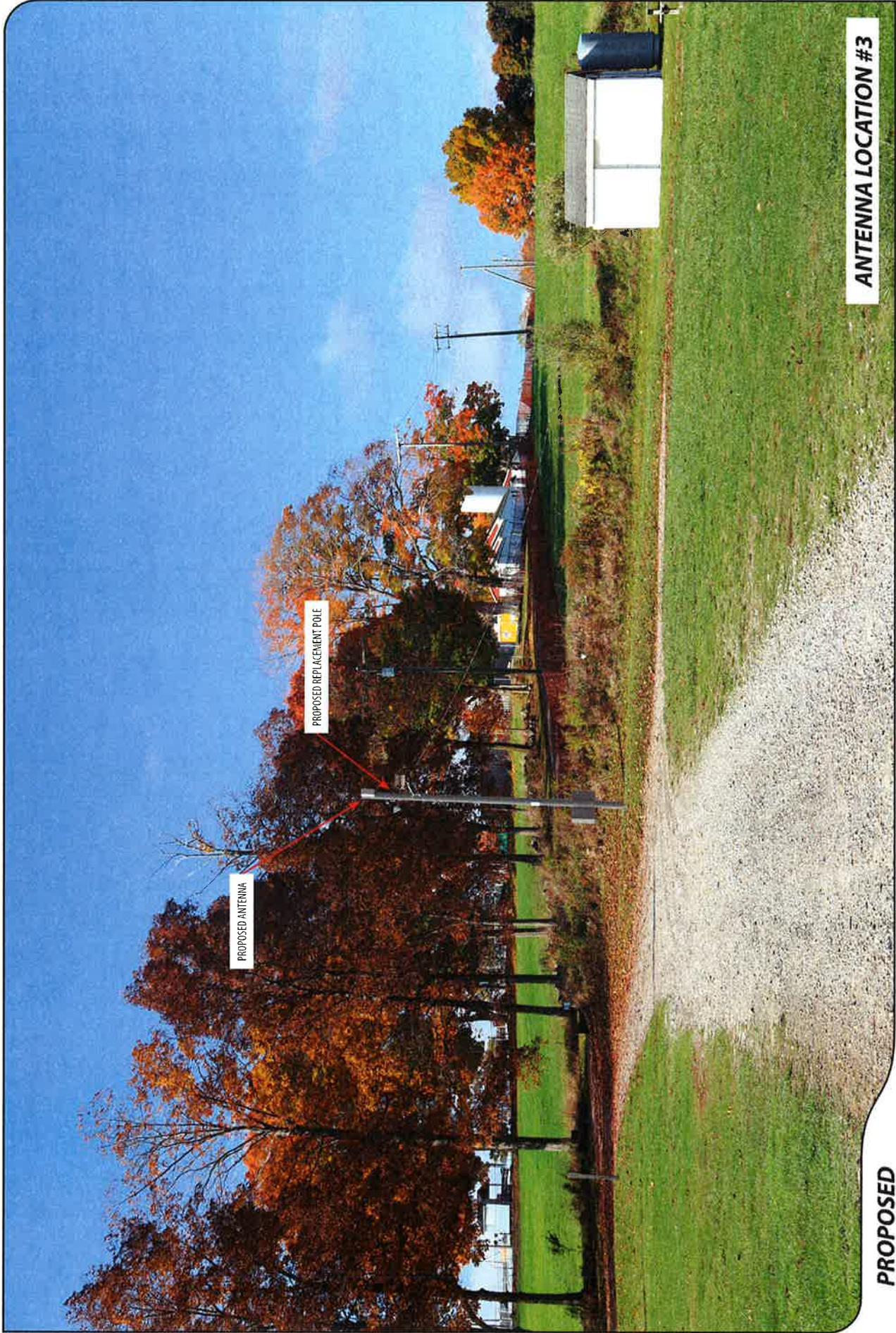
+/- 220 FEET



ANTENNA LOCATION #3

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	HOST PROPERTY	SOUTHWEST	+/- 220 FEET



PROPOSED

PHOTO

3

LOCATION

HOST PROPERTY

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 220 FEET

ANTENNA LOCATION #3

ATTACHMENT 7

General Power Density

Site Name: Woodstock Fairgrounds, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW 700	746	1	2	2	25	0.0012	0.4973333333	0.23%
Total Percentage of Maximum Permissible Exposure								0.23%

*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.

ATTACHMENT 8

WOODSTOCK_FAIRGROUNDS_POLE_F5_AIRSPACE_REPORT.TXT

 * Federal Airways & Airspace *
 * Summary Report: New Construction *
 * Antenna Structure *

Airspace User: Mark Brauer

File: WOODSTOCK_FAIRGROUNDS_POLE_F5

Location: Danielson, CT
 Distance: 9.5 Statute Miles
 Direction: 157° (true bearing)

Latitude: 41°-56'-11.7" Longitude: 71°-57'-23.95"

SITE ELEVATION AMSL.....387 ft.
 STRUCTURE HEIGHT..... 42 ft.
 OVERALL HEIGHT AMSL.....429 ft.

NOTICE CRITERIA

- FAR 77.9(a): NNR (DNE 200 ft AGL)
- FAR 77.9(b): NNR (DNE Notice Slope)
- FAR 77.9(c): NNR (Not a Traverse Way)
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for C44
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for LZD
- FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
 NNR = Notice Not Required
 PNR = Possible Notice Required (depends upon actual IFR procedure)
 For new construction review Air Navigation Facilities at bottom of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

- FAR 77.17(a)(1): DNE 499 ft AGL
- FAR 77.17(a)(2): DNE - Airport Surface
- FAR 77.19(a): DNE - Horizontal Surface
- FAR 77.19(b): DNE - Conical Surface
- FAR 77.19(c): DNE - Primary Surface
- FAR 77.19(d): DNE - Approach Surface
- FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: C44: TOUTANT

Type: A RD: 26870.35 RE: 756.1
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: LZD: DANIELSON

Type: A RD: 44184.91 RE: 231.4
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE

WOODSTOCK_FAIRGROUNDS_POLE_F5_AIRSPACE_REPORT.TXT

VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
 FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
 FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 2000 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
64CT AIR WOODSTOCK DNE Horizontal Surface. Check Runway Approach Surface. Within 1 NM.	169.22	.93	-36	
31CT HEL QUIET CORNER No Impact to Private Landing Facility Structure is beyond notice limit by 25806 feet.	165.52	5.07	+161	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	ST TYPE	AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE
	PUT	VOR/DME	R	117.4	77.31	31387	-223	CT	PUTNAM	-.41
	ORH	RADAR WXL	Y		10.73	124354	-574	MA	WORCESTER	-.26
	PVD	RADAR	Y	2735.	128.96	125368	-147	RI	THEODORE FRANCIS	-.07
	ORW	VOR/DME	I	110.0	184.79	139028	+119	CT	NORWICH	.05
	PVD	VORTAC	R	115.6	118.48	163142	+380	RI	PROVIDENCE	.13
	CEF	VORTAC	R	114.0	301.77	181574	+188	MA	WESTOVER	.06
	HFD	VOR/DME	R	114.9	236.05	193784	-420	CT	HARTFORD	-.12
	BDL	RADAR	ON		270.45	197490	+193	CT	BRADLEY INTL	.06
	BDL	VORTAC	D	109.0	270.71	199147	+269	CT	BRADLEY	.08
	BOX	RADAR WXL	Y		87.93	223137	+197	MA	TAUNTON	.05

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
 Movement Method Proof as specified in §73.151(c) is not required.
 Please review 'AM Station Report' for details.

Nearest AM Station: WINY @ 6363 meters.

Airspace® Summary Version 14.9.372

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WOODSTOCK_FAIRGROUNDS_POLE_F5_AIRSPACE_REPORT.TXT

10-14-2014
09:52:25

FAA 1-A SURVEY CERTIFICATION

Applicant: Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Site Name: Woodstock Fairgrounds (Small Cell Antenna Location #1)

Address: 281 Route 169
Woodstock, CT 06281

Horizontal Datum: NAD 83

Vertical Datum: NGVD 1929 (A.M.S.L.)

Structure Type: Replacement Pole F5

Latitude: 41°- 56'-11.700" N NAD 83
Longitude: 71°- 57'-23.949" W NAD 83

Ground Elevation: 386.5'± feet A.M.S.L.

Top of Existing Whip Antennas: 41.6'± feet A.G.L. (428.1'± A.M.S.L.)

Top of Existing Utility Pole: 33.1'± feet A.G.L. (419.6'± A.M.S.L.)

Top of Proposed Replacement Pole: 33.1'± feet A.G.L. (419.6'± A.M.S.L.)

Top of Proposed Antennas: 28.9'± feet A.G.L. (415.4'± A.M.S.L.)

Certification: I certify that the Latitude and Longitude noted hereon are accurate to within ± 3 feet horizontally and that the site elevation is accurate to within ± 1 foot vertically. With a top of proposed replacement pole height of 33.1'± AGL, the overall height will be 419.6'± A.M.S.L.. The horizontal datum (coordinates) are in terms of the North American Datum of 1983 (NAD 83) and are expressed in degrees minutes and seconds to the nearest thousandth of a second. The vertical datum (heights) are in terms of the North American Vertical Datum of 1929 and expressed to the nearest foot.

Company: Martinez Couch and Associates L.L.C.

Signature:


Angel R. Martinez L. S. 18833

Surveyor/seal:

Date:

July 16, 2014



WOODSTOCK_FAIRGROUNDS_CT_AIRSPACE_REPORT.TXT

 * Federal Airways & Airspace *
 * Summary Report: New Construction *
 * Antenna Structure *

Airspace User: Mark Brauer

File: WOODSTOCK_FAIRGROUNDS_CT

Location: Danielson, CT
 Distance: 9.5 Statute Miles
 Direction: 158° (true bearing)

Latitude: 41°-56'-13.74" Longitude: 71°-57'-18.5"

SITE ELEVATION AMSL.....397 ft.
 STRUCTURE HEIGHT..... 29 ft.
 OVERALL HEIGHT AMSL.....426 ft.

NOTICE CRITERIA

- FAR 77.9(a): NNR (DNE 200 ft AGL)
- FAR 77.9(b): NNR (DNE Notice Slope)
- FAR 77.9(c): NNR (Not a Traverse Way)
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for C44
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for LZD
- FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
 NNR = Notice Not Required
 PNR = Possible Notice Required (depends upon actual IFR procedure)
 For new construction review Air Navigation Facilities at bottom of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

- FAR 77.17(a)(1): DNE 499 ft AGL
- FAR 77.17(a)(2): DNE - Airport Surface
- FAR 77.19(a): DNE - Horizontal Surface
- FAR 77.19(b): DNE - Conical Surface
- FAR 77.19(c): DNE - Primary Surface
- FAR 77.19(d): DNE - Approach Surface
- FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: C44: TOUTANT

Type: A RD: 27224.89 RE: 756.1
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: LZD: DANIELSON

Type: A RD: 44252.53 RE: 231.4
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE

WOODSTOCK_FAIRGROUNDS_CT_AIRSPACE_REPORT.TXT

VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
 FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
 FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 2000 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
64CT AIR WOODSTOCK DNE Horizontal Surface. Check Runway Approach Surface. Within 1 NM.	173.62	.95	-39	
31CT HEL QUIET CORNER No Impact to Private Landing Facility Structure is beyond notice limit by 25927 feet.	166.35	5.09	+158	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	ST TYPE	AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA ST	LOCATION	GRND ANGLE
	PUT	VOR/DME	R	117.4	77.52	30940	-226 CT	PUTNAM	-.42
	ORH	RADAR WXL	Y		10.56	124075	-577 MA	WORCESTER	-.27
	PVD	RADAR	Y	2735.	129.15	125177	-150 RI	THEODORE FRANCIS	-.07
	ORW	VOR/DME	I	110.0	184.95	139269	+116 CT	NORWICH	.05
	PVD	VORTAC	R	115.6	118.61	162876	+377 RI	PROVIDENCE	.13
	CEF	VORTAC	R	114.0	301.65	181816	+185 MA	WESTOVER	.06
	HFD	VOR/DME	R	114.9	236.06	194242	-423 CT	HARTFORD	-.12
	BDL	RADAR	ON		270.39	197901	+190 CT	BRADLEY INTL	.06
	BDL	VORTAC	D	109.0	270.65	199556	+266 CT	BRADLEY	.08
	BOX	RADAR WXL	Y		87.98	222718	+194 MA	TAUNTON	.05

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
 Movement Method Proof as specified in §73.151(c) is not required.
 Please review 'AM Station Report' for details.

Nearest AM Station: WINY @ 6300 meters.

Airspace® Summary Version 14.9.372

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WOODSTOCK_FAIRGROUNDS_CT_AIRSPACE_REPORT.TXT

09-12-2014
14:13:21

FAA 1-A SURVEY CERTIFICATION

Applicant: Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Site Name: Woodstock Fairgrounds (Small Cell Antenna Location #2)

Address: 281 Route 169
Woodstock, CT 06281

Horizontal Datum: NAD 83

Vertical Datum: NGVD 1929 (A.M.S.L.)

Structure Type: Replacement Pole B36

Latitude: 41°- 56'-13.738" N NAD 83
Longitude: 71°- 57'-18.502" W NAD 83

Ground Elevation: 396.7'± feet A.M.S.L.

Top of Existing Utility Pole: 28.8'± feet A.G.L. (425.5'± A.M.S.L.)

Top of Proposed Antennas: 28.8'± feet A.G.L. (425.5'± A.M.S.L.)

Certification: I certify that the Latitude and Longitude noted hereon are accurate to within ± 3 feet horizontally and that the site elevation is accurate to within ± 1 foot vertically. With a proposed top of tower of 28.8'± AGL, the overall height will be 425.5'± A.M.S.L. The horizontal datum (coordinates) are in terms of the North American Datum of 1983 (NAD 83) and are expressed in degrees minutes and seconds to the nearest thousandth of a second. The vertical datum (heights) are in terms of the North American Vertical Datum of 1929 and expressed to the nearest foot.

Company: Martinez Couch and Associates L.L.C.

Signature: 
Surveyor/seal: Angel R. Martinez L. S. 18833
Date: July 16, 2014



WOODSTOCK_FAIRGROUNDS_POLE_H24_AIRSPACE_REPORT.TXT

```
*****
*           Federal Airways & Airspace           *
*           Summary Report: New Construction       *
*           Antenna Structure                     *
*****
```

Airspace User: Mark Brauer

File: WOODSTOCK_FAIRGROUNDS_POLE_H24

Location: Danielson, CT
 Distance: 9.6 Statute Miles
 Direction: 159° (true bearing)

Latitude: 41°-56'-19.92" Longitude: 71°-57'-11.12"

SITE ELEVATION AMSL.....342 ft.
 STRUCTURE HEIGHT..... 30 ft.
 OVERALL HEIGHT AMSL.....372 ft.

NOTICE CRITERIA

- FAR 77.9(a): NNR (DNE 200 ft AGL)
- FAR 77.9(b): NNR (DNE Notice Slope)
- FAR 77.9(c): NNR (Not a Traverse Way)
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for C44
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for LZD
- FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
 NNR = Notice Not Required
 PNR = Possible Notice Required (depends upon actual IFR procedure)
 For new construction review Air Navigation Facilities at bottom
 of this report.

Notice to the FAA is not required at the analyzed location and height for
 slope, height or Straight-In procedures. Please review the 'Air Navigation'
 section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

- FAR 77.17(a)(1): DNE 499 ft AGL
- FAR 77.17(a)(2): DNE - Airport Surface
- FAR 77.19(a): DNE - Horizontal Surface
- FAR 77.19(b): DNE - Conical Surface
- FAR 77.19(c): DNE - Primary Surface
- FAR 77.19(d): DNE - Approach Surface
- FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: C44: TOUTANT

Type: A RD: 27640.43 RE: 756.1
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: LZD: DANIELSON

Type: A RD: 44682.36 RE: 231.4
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE

WOODSTOCK_FAIRGROUNDS_POLE_H24_AIRSPACE_REPORT.TXT

VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
 FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
 FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 2000 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING TO FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
64CT AIR WOODSTOCK DNE Horizontal Surface. Check Runway Approach Surface. Within 1 NM. No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport.	179.24	1.05	-93	
31CT HEL QUIET CORNER No Impact to Private Landing Facility Structure is beyond notice limit by 26413 feet.	167.61	5.17	+104	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	TYPE	ST AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA ST	LOCATION	GRND ANGLE
	PUT	VOR/DME	R	117.4	78.45	30264	-280 CT	PUTNAM	-.53
	ORH	RADAR WXL	Y		10.36	123359	-631 MA	WORCESTER	-.29
	PVD	RADAR	Y	2735.	129.54	125138	-204 RI	THEODORE FRANCIS	-.09
	ORW	VOR/DME	I	110.0	185.16	139941	+62 CT	NORWICH	.03
	PVD	VORTAC	R	115.6	118.89	162683	+323 RI	PROVIDENCE	.11
	CEF	VORTAC	R	114.0	301.39	181964	+131 MA	WESTOVER	.04
	HFD	VOR/DME	R	114.9	236.00	195052	-477 CT	HARTFORD	-.14
	BDL	RADAR	ON		269.72	198455	+136 CT	BRADLEY INTL	.04
	BDL	VORTAC	D	109.0	270.47	200108	+212 CT	BRADLEY	.06
	BOX	RADAR WXL	Y		88.14	222140	+140 MA	TAUNTON	.04

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
 Movement Method Proof as specified in §73.151(c) is not required.
 Please review 'AM Station Report' for details.

Nearest AM Station: WINY @ 6286 meters.

WOODSTOCK_FAIRGROUNDS_POLE_H24_AIRSPACE_REPORT.TXT

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10-14-2014
09:55:49

FAA 1-A SURVEY CERTIFICATION

Applicant: Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Site Name: Woodstock Fairgrounds (Small Cell Antenna Location #3)

Address: 281 Route 169
Woodstock, CT 06281

Horizontal Datum: NAD 83

Vertical Datum: NGVD 1929 (A.M.S.L.)

Structure Type: Replacement Pole H24

Latitude: 41°- 56'-19.924" N NAD 83
Longitude: 71°- 57'-11.121" W NAD 83

Ground Elevation: 341.9'± feet A.M.S.L.

Top of Existing Utility Pole: 29.3'± feet A.G.L. (371.2'± A.M.S.L.)

Top of Proposed Antenna: 29.3'± feet A.G.L. (371.2'± A.M.S.L.)

Certification: I certify that the Latitude and Longitude noted hereon are accurate to within ± 3 feet horizontally and that the site elevation is accurate to within ± 1 foot vertically. With a proposed top of tower of 29.3'± AGL, the overall height will be 371.2'± A.M.S.L. The horizontal datum (coordinates) are in terms of the North American Datum of 1983 (NAD 83) and are expressed in degrees minutes and seconds to the nearest thousandth of a second. The vertical datum (heights) are in terms of the North American Vertical Datum of 1929 and expressed to the nearest foot.

Company: Martinez Couch and Associates L.L.C.

Signature: 
Surveyor/seal: Angel R. Martinez L. S. 18833

Date: July 16, 2014



ATTACHMENT 9

October 29, 2014

Via Certified Mail, Return Receipt Requested

Allan D. Walker, Jr.
First Selectman
Town of Woodstock
415 Rte. 169
Woodstock, CT 06281

**Re: Proposed Installation of a “Small Cell” Telecommunications Facility at the
Woodstock Fairgrounds, Woodstock, Connecticut**

Dear Mr. Walker:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install three (3) new “small cell” telecommunications facilities at the Woodstock Fairgrounds in Woodstock (the “Property”). The “small cells” will consist of an antenna at the top of three (3) steel poles, replacing three (3) existing wood poles. Equipment associated with the “small cells” will be located in small cabinets attached to the bottom portion of the poles.

The “small cell” facility will provide improved wireless service to the Property and capacity relief to Cellco’s existing cell sites in Woodstock and the surrounding Towns. A copy of the Petition is attached for your review. Landowners whose property abuts the Fairgrounds’ parcel were also sent notice of this filing along with a copy of the Petition’s project plans.

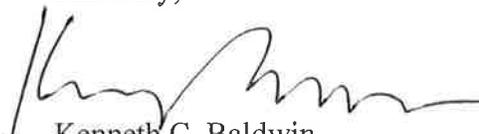
13184782-v1

Robinson+Cole

Allan D. Walker, Jr.
October 29, 2014
Page 2

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment
Copy to:
Sandy M. Carter

October 29, 2014

Via Certified Mail, Return Receipt Requested

Woodstock Agricultural Society
289 Route 169
Woodstock, CT 06281

**Re: Proposed Installation of a “Small Cell” Telecommunications Facility at the
Woodstock Fairgrounds, Woodstock, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install three (3) new “small cell” telecommunications facilities at the Woodstock Fairgrounds in Woodstock (the “Property”). The “small cells” will consist of an antenna at the top of three (3) steel poles, replacing three (3) existing wood poles. Equipment associated with the “small cells” will be located in small cabinets attached to the bottom portion of the poles.

The “small cell” facilities will provide improved wireless service to the Property and capacity relief to Cellco’s existing cell sites in Woodstock and the surrounding Towns. A copy of the Petition is attached for your review. Landowners whose property abuts the Fairgrounds’ parcel were also sent notice of this filing along with a copy of the Petition’s project plans.

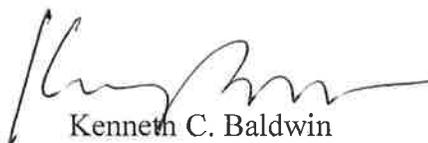
13184793-v1

Robinson+Cole

Woodstock Agricultural Society
October 29, 2014
Page 2

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment
Copy to:

Allan D. Walker, Jr., First Selectman
Sandy M. Carter

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

October 29, 2014

Via Certified Mail, Return Receipt Requested

«Name_and_Address»

Re: Cellco Partnership d/b/a Verizon Wireless – Petition for Declaratory Ruling for a Proposed Installation of Three (3) Small Cell Telecommunications Facilities at the Woodstock Fairgrounds in Woodstock, Connecticut

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install three (3) small cell telecommunications facilities at the Woodstock Fairgrounds in Woodstock, Connecticut (the “Property”). The “small cells” will consist of an antenna at the top of three (3) steel poles, replacing three (3) existing wood poles. Equipment associated with the “small cells” will be located in small cabinets attached to the bottom portion of the poles.

The “small cell” facilities will provide improved wireless service to the Property and capacity relief to Cellco’s existing cell sites in Woodstock and the surrounding Towns. A copy of the Petition’s project plans are attached for your review.

October 29, 2014

Page 2

If you have any questions regarding the Petition, the Council's process for reviewing the proposed facility or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,

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

Kenneth C. Baldwin

Attachment

Copy to:

Sandy M. Carter

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

**WOODSTOCK FAIRGROUNDS
WOODSTOCK, CONNECTICUT**

	<u>Map/Lot/Block</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	5779/63/01	199 Rt. 171	Miller Family LLC 199 Rt. 171 Woodstock, CT 06281
2.	5779/63/01H	Rt. 169	Woodstock Agricultural Society P.O. Box 1 South Woodstock, CT 06267
3.	5779/63/19	263 Rt. 169	Woodstock Agricultural Society P.O. Box 1 South Woodstock, CT 06267
4.	5779/63/15	283 Rt. 169	John G. McDowell 365 Brickyard Road Woodstock, CT 06281
5.	5779/63/17	265 Rt. 169	Masonic Building Corp. of Woodstock P.O. Box 46 South Woodstock, CT 06267
6.	5779/63/14	287 Rt. 169	Shane M. Cournoyer P.O. Box 636 Putnam, CT 06260
7.	5779/63/05	17 North Gate Road	Frances A. Geer P.O. Box 45 South Woodstock, CT 06267
8.	5779/63/04	19 North Gate Road	Susan Paula Phaneuf 86 Elvira Heights Putnam, CT 06260
9.	5779/63/04A	North Gate Road	Woodstock Agricultural Society P.O. Box 1 South Woodstock, CT 06267
10.	5779/63/02B	23 Roseland Park Road	Second Baptist Church 23 Roseland Park Road South Woodstock, CT 06267

	<u>Map/Lot/Block</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
11.	5779/63/03	30 North Gate Road	Robert A. and Patricia A. Chaput P.O. Box 193 South Woodstock, CT 06267
12.	5779/63/03A	North Gate Road	Miller Family LLC 199 Rt. 171 Woodstock, CT 06281
13.	5779/63/13	291 Rt. 169	Priscilla and William A. Colwell P.O. Box 367 South Woodstock, CT 06267
14.	5779/63/12	295 Rt. 169	Muriel M. Sandness P.O. Box 12 South Woodstock, CT 06267
15.	5779/63/11	299 Rt. 169	Muriel M. Sandness P.O. Box 12 South Woodstock, CT 06267
16.	5779/63/10-1	305 Rt. 169	Nancy A. and Mark S. Fuller P.O. Box 252 South Woodstock, CT 06267
17.	5779/63/10	3 Roseland Park Road	Debra W. and Donald W. Gaston 97 School Street, Apt. 204 Putnam, CT 06260
18.	5779/63/10A	7 Roseland Park Road	Pamela S. and John D. Bouchard P.O. Box 93 South Woodstock, CT 06267
19.	5779/63/9	9 Roseland Park Road	Mona L. and Bryan D. Nichols P.O. Box 122 Eastford, CT 06242
20.	5779/63/8	13 Roseland Park Road	Eleanor C. Page 15 Cournoyer Road Thomaston, CT 06277
21.	5779/63/7	13 North Gate Road	Woodstock Agricultural Society P.O. Box 1 South Woodstock, CT 06267

	<u>Map/Lot/Block</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
22.	5779/63/6	15 North Gate Road	Richard, Michael and Jean M. Roy c/o Deborah Lucier and James Roy P.O. Box 183 South Woodstock, CT 06267
23.	5779/63/2-1	Stone Bridge Road	Miller Family LLC 199 Rt. 171 Woodstock, CT 06281
24.	5779/63/02D9	106 Little Pond Road	Patricia Hebert 106 Little Pond Road Woodstock, CT 06281
25.	5779/63/02D8	102 Little Pond Road	Richard D. and Beth M. Rauls 102 Little Pond Road Woodstock, CT 06281
26.	5779/63/02D7	98 Little Pond Road	Ruth A. and Joseph C. Mauk 156 Stone Bridge Road Woodstock, CT 06281
27.	5779/63/02D6	94 Little Pond Road	Donald R. and Lois J. Taschereau 94 Little Pond Road Woodstock, CT 06281
28.	5779/63/02D4	89 Little Pond Road	Baumuller Family Revocable Trust c/o Robert E. and Carolyn, Trustees 8844 US Rt. 2 North Hero, VT 05474
29.	5779/63/02D3	82 Little Pond Road	Judith A. Dennison P.O. Box 147 South Woodstock, CT 06267
30.	5779/63/02D1	74 Little Pond Road	Roger C. Underwood P.O. Box 154 South Woodstock, CT 06267
31.	5779/63/02DA	Little Pond Road	Town of Woodstock 415 Rt. 169 Woodstock, CT 06281
32.	5779/63/02DC	Little Pond Road	Town of Woodstock 415 Rt. 169 Woodstock, CT 06281

	<u>Map/Lot/Block</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
33.	5779/63/02D10	108 Little Pond Road	Charles H. and Lucy MacWilliams 108 Little Pond Road Woodstock, CT 06281
34.	5779/63/02C	111 Stone Bridge Road	Bertha G. Benoit 111 Stone Bridge Road Woodstock, CT 06281
35.	5779/55/39	110 Stone Bridge Road	Putnam Fish and Game Club, Inc. Attn: James Browne P.O. Box 226 South Woodstock, CT 06267
36.	5779/55/38	Stone Bridge Road	Joy A. and Charles W. Bentley, Jr. P.O. Box 14 Woodstock, CT 06281
37.	5779/64/16	286 Rt. 169	Castle Rock Farm LLC 210 Child Hill Road Woodstock, CT 06281