

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

# Connecticut Siting Council

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APPLICATION OF CELLCO PARTNERSHIP  
D/B/A VERIZON WIRELESS

TOWN OF WOODSTOCK

RELOCATION OF THE EXISTING WOODSTOCK FACILITY

DOCKET No. \_\_\_\_\_

JANUARY 28, 2011



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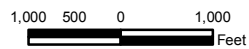
## EXECUTIVE SUMMARY

In 1991, Cellco Partnership d/b/a Verizon Wireless (“Cellco”) established its Woodstock Facility by installing a single omni-directional cellular whip antenna at the top of an existing 150-foot narrow profile lattice tower, located in the southeast corner of a 29.5 acre parcel at 87 West Quasset Road in Woodstock (the “Property”). Cellco’s radio equipment is located in a 12’ x 20’ shelter located near the base of the tower. The existing tower is owned and maintained by American Tower Corporation (“ATC”). Cellco’s single whip antenna provides limited, reliable service, at cellular (850 MHz) frequencies only, along portions of Route 169 and Route 171, as well as local roads in southeast Woodstock. The existing ATC tower is not structurally capable of supporting Cellco’s three-sector array of antennas. To improve wireless service and allow Cellco to utilize all of its FCC licensed frequencies in southeast Woodstock, Cellco intends to relocate its Woodstock Facility to the central portion of the Property approximately 710 feet to the northwest of the existing tower.

At the relocated Woodstock Facility location, Cellco would construct a 150-foot tall monopole tower. Cellco will install fifteen (15) panel-type (six (6) cellular, six (6) PCS and three (3) LTE) antennas, on a triangular low-profile antenna platform, at the 147-foot level on the tower and a 12’ x 24’ equipment shelter on the ground near the base of the tower. The shelter will house Cellco’s radio equipment and a back-up generator. All improvements would be located within a 50’ x 50’ fenced compound area. Access to the relocated Woodstock Facility would extend from Quasset Hill Road over an existing dirt and gravel driveway on the landlord’s property, a distance of approximately 1,465 feet. Utilities will extend from existing service along West Quasset Road approximately 1,115 feet to the southeast.



Base Map Source: USGS 7.5 Minute Topographic Quadrangle  
 Maps: Putnam (1970) and Eastford (1983).



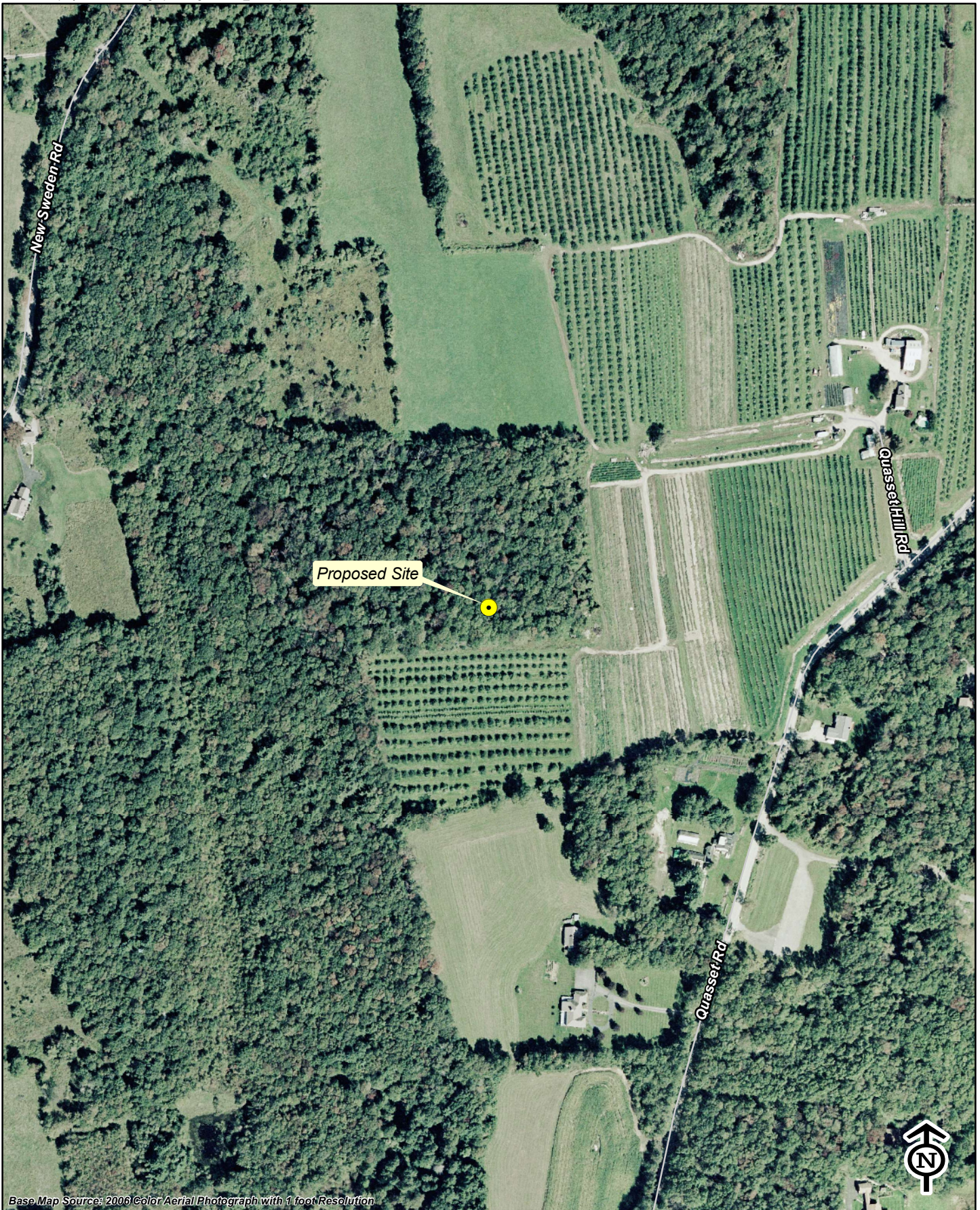
**Vanasse Hangen Brustlin, Inc.**

**USGS Topographic Map  
 Proposed Verizon Wireless Facility  
 Woodstock Relo  
 87 West Quasset Road  
 Woodstock, Connecticut**

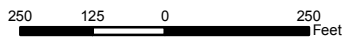


Quadrangle Location





Base Map Source: 2006 Color Aerial Photograph with 1 foot Resolution



Vanasse Hangen Brustlin, Inc.

**Aerial Photograph  
 Proposed Verizon Wireless Facility  
 Woodstock Relo  
 87 West Quasset Road  
 Woodstock, Connecticut**



Quadrangle Location



**STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL**

**IN RE:** :  
 :  
**APPLICATION OF CELLCO PARTNERSHIP** : **DOCKET NO. \_\_\_\_\_**  
**D/B/A VERIZON WIRELESS FOR A** :  
**CERTIFICATE OF ENVIRONMENTAL** :  
**COMPATIBILITY AND PUBLIC NEED TO** :  
**RELOCATE AN EXISTING WIRELESS** :  
**TELECOMMUNICATIONS FACILITY ON** :  
**PROPERTY LOCATED AT 87 WEST** :  
**QUASSET ROAD IN WOODSTOCK,** :  
**CONNECTICUT** : **JANUARY 28, 2011**

**APPLICATION FOR CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED**

**I. INTRODUCTION**

**A. Authority and Purpose**

This Application and the accompanying attachments (collectively, the “Application”) is submitted by Cellco Partnership d/b/a Verizon Wireless (“Cellco” or the “Applicant”), pursuant to Chapter 277a, Sections 16-50g *et seq.* of the Connecticut General Statutes (“C.G.S.”), as amended, and Sections 16-50j-1 *et seq.* of the Regulations of Connecticut State Agencies (“R.C.S.A.”), as amended. The Application requests that the Connecticut Siting Council (“Council”) issue a Certificate of Environmental Compatibility and Public Need (“Certificate”) to relocate an existing wireless telecommunications facility (the “Woodstock Facility”), from the southeast corner to a more central location on a 29.5 acre parcel at 87 West Quasset Road in Woodstock, Connecticut. The proposed relocated Woodstock Facility would allow Cellco to provide enhanced wireless services, along portions of Routes 169 and 171 and local roads, as



well as commercial and residential areas in portions of southeast Woodstock and northeast Pomfret. Today, Cellco's existing Woodstock Facility provides wireless service to the area at cellular frequencies (850 MHz) only. The proposed relocated Woodstock Facility would be capable of supporting a full array of antennas, allowing for the provision of cellular, PCS and LTE services. The relocated Woodstock Facility would continue to interact with service from Cellco's existing Coatney Hill and Pomfret East cell sites. Cellco's Coatney Hill facility consists of antennas at the 157-foot level on a 170-foot monopole tower at 215 Coatney Hill Road in Woodstock, located approximately 2.75 miles northwest of the relocated Woodstock Facility. Cellco's Pomfret East cell site consists of antennas at the 157-foot level on a 170-foot monopole tower at 398 Pomfret Road in Pomfret, located approximately 3.25 miles southeast of the relocated Woodstock Facility.

Once operational, the relocated Woodstock Facility would provide reliable service to a 3.5 mile portion of Route 171; a 3.6 mile portion of Route 169 and an overall area of 14.8 square miles at cellular (850 MHz) frequencies; a 2.3 mile portion of Route 171; a 3.0 mile portion of Route 169 and an overall area of 7.5 square miles at PCS (1900 MHz) frequencies; and a 3.6 mile portion of Route 171; a 3.7 mile portion of Route 169 and an overall area of 15.6 square miles at LTE (700 MHz) frequencies.

The relocated Woodstock Facility would be located in the central portion of a 25.9 acre parcel at 87 West Quasset Road in Woodstock (the "Property") approximately 710 feet northwest of the existing tower. The Property is located in the Town's Community District zone and is currently used for agricultural purposes.

Cellco proposes to construct a new 150-foot self-supporting monopole tower. At the top of the tower, Cellco would install a total of fifteen (15) panel-type antennas (six (6) cellular, six

(6) PCS, and three (3) LTE) at a centerline height of 147 feet above ground level (“AGL”). The antennas would be attached to a low profile triangular antenna platform. Equipment associated with Cellco’s antennas and a diesel-fueled back-up generator would be located inside a 12’ x 24’ shelter installed near the base of the tower. All facility improvements would be located within a 50’ x 50’ fenced compound area. Vehicular access to the relocated Woodstock Facility would extend from Quasset Hill Road over an existing dirt and gravel access driveway, a distance of approximately 1,465 feet, to the cell site. Utilities will extend from existing service in the southeast portion of the Property a distance of approximately 1,115 feet. The new tower and facility compound will be designed to accommodate additional wireless carriers.

Cellco’s equipment shelter would house radio and related equipment, including (a) receiving, transmitting, switching, processing and performance monitoring equipment; and (b) automatic heating and cooling equipment. A diesel-fueled generator would be installed in a segregated generator room within the shelter for use during power outages and periodically for maintenance purposes. The 275 gallon diesel fuel tank is included as a part of the generator unit. The fuel tank is double-walled and maintains a leak detection monitoring alarms. The floor of the generator room is also designed to maintain 120% of the volume of all fuels and fluids in the generator, in the unlikely event of a complete generator failure.

The tower and equipment shelter would be enclosed by an 8-foot high security fence and gate. Cellco’s equipment shelter would be equipped with a silent intrusion and systems alarm and will be monitored on a 24-hour basis to receive and to respond to incoming alarms or other technical problems. The equipment building would remain unstaffed, except as required for maintenance. Once the cell site is operational, maintenance personnel will visit the site on a monthly basis. More frequent visits may be required if there are problems with the cell site equipment.

Included in this Application as Attachment 1 is a factual summary and project plans for the proposed relocated Woodstock Facility. This summary, along with the other attachments submitted as part of this Application, contains all of the site-specific information required by statute and the regulations of the Council.

**B. The Applicant**

Cellco is a Delaware Partnership with an administrative office located at 99 East River Drive, East Hartford, CT, 06108. Cellco is licensed by the Federal Communications Commission (“FCC”) to operate a wireless telecommunications system in the State of Connecticut within the meaning of C.G.S. Section 16-50i(a)(6). Operation of the wireless telecommunications systems and related activities are Cellco’s sole business in the State of Connecticut.

Cellco has extensive national experience in the development, construction and operation of wireless telecommunications systems and the provision of wireless telecommunications service to the public.

Correspondence and/or communications regarding this Application may be addressed to:

Sandy Carter, Regulatory Manager  
Verizon Wireless  
99 East River Drive  
East Hartford, Connecticut 06108

A copy of all such correspondence or communications should also be sent to the applicant’s attorneys:

Robinson & Cole LLP  
280 Trumbull Street  
Hartford, Connecticut 06103-3597  
(860) 275-8200  
Attention: Kenneth C. Baldwin, Esq.

**C. Application Fee**

The estimated total construction cost for the relocated Woodstock Facility would be less than \$5,000,000. Therefore, pursuant to Section 16-50v-1a(b) of the Regulations of Connecticut State Agencies, an application fee of \$1,250 accompanies this Application in the form of a check payable to the Council.

**II. SERVICE AND NOTICE REQUIRED BY C.G.S. SECTION 16-50(b)**

Copies of this Application have been sent by certified mail, return receipt requested, to municipal, regional, state and federal officials, pursuant to C.G.S. Section 16-50(b). A certificate of service, along with a list of the parties served with a copy of the Application, is included as Attachment 2.

Notice of Celco's intent to submit this Application was published on January 26 and 27, 2011 in the *Norwich Bulletin* pursuant to C.G.S. Section 16-50(b). A copy of the published legal notice is included as Attachment 3. A Publisher's Affidavit or Certificate of Publication will be submitted to the Council as soon as it is available.

Attachment 4 contains a certification that notice of Celco's intent to file this application was sent to each person appearing in the Town's Assessor's records as an owner of property that may be considered to abut the Property in accordance with C.G.S. Section 16-50(b), along with a list of the property owners to whom such notice was sent and a sample notice letter.

**III. REQUIRED INFORMATION: PROPOSED WIRELESS FACILITY**

The purpose of this section is to provide an overview and general description of the wireless facility proposed to be installed at the Property.

**A. General Information**

Prior to the 1980's, mobile telephone service was characterized by insufficient frequency availability, inefficient use of available frequencies and poor quality of service. These limitations generally resulted in problems of congestion, blocking of transmissions, interference, lack of coverage and relatively high cost. Consequently, the FCC, in its Report and Order released May 4, 1981 in FCC Docket No. 79-318, recognized the public need for technical improvement, wide-area coverage, high quality service and a degree of competition in mobile telephone service.

More recently, the federal Telecommunications Act of 1996 (the "Act") emphasized and expanded on these aspects of the FCC's 1981 decision. Among other things, the Act recognized an important nationwide public need for high-quality wireless telecommunication services of all varieties. The Act also expressly promotes competition and seeks to reduce regulation in all aspects of the telecommunications industry in order to foster lower prices for consumers and to encourage the rapid deployment of new telecommunications technologies.

Cellco's proposed relocated Woodstock Facility would be part of the expanding wireless telecommunications network envisioned by the Act and has been developed to help meet these nationwide goals. In particular, Cellco's system has been designed, and the cell sites proposed in this Application have been selected, so as to maximize the geographical coverage and quality of service while minimizing the total number of cell sites required.

Because the FCC and the United States Congress have determined that there is a pressing public need for high-quality wireless telecommunications service nationwide, the federal government has preempted the determination of public need by states and municipalities, including the Council, with respect to public need for the service to be provided by the proposed facility. In addition, the FCC has promulgated regulations containing technical standards for wireless systems,

including design standards, in order to ensure the technical integrity of each system and nationwide compatibility among all systems. State and local regulation of these matters is likewise preempted. The FCC has also exercised its jurisdiction over and preempted state and local regulation with respect to radio frequency interference issues by establishing regulations in this area as well.

Pursuant to FCC authorizations, Cellco has constructed and currently operates a wireless system throughout Connecticut. This system, together with Cellco's system throughout its east coast and nationwide markets, has been designed and constructed to operate as one integrated, contiguous system, consistent with Cellco's business policy of developing compatibility and continuity of service on a regional and national basis.

Recognizing the public safety benefits that enhanced wireless telecommunications networks can provide, the United States, Congress also enacted the Wireless Communications and Public Safety Act of 1999 to promote and enhance public safety by making 911 the universal emergency assistance number, furthering the deployment of wireless 911 capabilities and further encouraging the construction and operation of seamless, ubiquitous and reliable wireless networks. In 2004, Congress enacted the Enhanced 911 Act for the specific purpose of enhancing and promoting Homeland Security, public safety and citizen activated emergency response capabilities. These goals and other related responsibilities imposed on wireless service providers can only be satisfied if Cellco maintains a ubiquitous and reliable wireless network.

Included as Attachment 5 is a copy of the FCC's authorization issued to Cellco for its wireless service in Connecticut. The FCC's rules permit a licensee to modify its system, including the addition of new cell sites, without prior approval by the FCC, as long as the licensee's authorized service area is not enlarged. The relocated Woodstock Facility would not enlarge Cellco's authorized service area.

**B. Public Need and System Design**

**1. Public Need**

As noted above, the Act has pre-empted any state or local determination of public need for wireless services. In Windham County, Cellco holds FCC Licenses to provide wireless services in the 850 MHz (cellular), 1900 MHz (PCS) and 700 MHz (LTE) frequency ranges. Pursuant to its FCC Licenses, Cellco has developed and continues to develop a network of cell sites to serve the demand for wireless service in the area. Cellco's network currently provides service in southeast Woodstock from its existing Woodstock Facility (at 850 MHz frequencies only), Coatney Hill facility and Pomfret East facility. Cellco currently provides both cellular and PCS service from its existing Coatney Hill and Pomfret East facilities. By relocating and rebuilding the Woodstock Facility, Cellco will be able to provide cellular, PCS and eventually LTE services from its Woodstock Facility thereby satisfying its service objectives in the area more consistently and uniformly. Plots showing coverage from Cellco's existing facilities in the area, alone and together with the relocated Woodstock Facility are included in Attachment 6.<sup>1</sup>

**2. System Design and Equipment**

**a. System Design**

Cellco's wireless system in general and the proposed relocated Woodstock Facility, in particular, have been designed and developed to allow Cellco to achieve and to maintain high quality, reliable wireless service without interruption from dropped calls and interference.

The system design provides for frequency reuse and hand-off, is capable of orderly expansion and is compatible with other wireless systems. The resulting quality of service compares

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<sup>1</sup> Coverage in Cellco's 700 MHz frequency range is depicted on a "stand alone" coverage plot at the proposed relocated Woodstock Facility. Cellco expects to begin deployment of its LTE service in Connecticut in 2011.

favorably with the quality of service provided by conventional wireline telephone service. The wireless system is designed to assure a true cellular configuration of base transmitters and receivers in order to cover the proposed service area effectively while providing the highest quality of service possible. Cell site transmissions are carefully tailored to the FCC's technical standards with respect to coverage and interference and to minimize the amount of power that is radiated.

Mobile telephone switching offices ("MTSOs") in Windsor and Wallingford are interconnected and operate Cellco's wireless systems in Connecticut as a single network, offering the subscriber uninterrupted use of the system while traveling throughout the State. This network is further interconnected with the local exchange company ("LEC") and inter-lata (long distance) carriers network.

Cellco has designed its wireless system in conformity with applicable standards and constraints for wireless systems. Cellco's system is also designed to minimize the need for additional cell sites in the absence of additional demand or unforeseen circumstances.

**b. Cellular System Equipment**

The key elements of the cellular system are the two MTSOs located in Windsor and Wallingford and the various connector cell sites around the State. Cellco's CDMA wireless networks are deployed on two platforms: the earlier AUTOPLEX system, using Series II base stations, and the newer FLEXENT CDMA system, using smaller, more compact modular base stations. Because the Series II base stations are no longer manufactured, the newer CDMA systems, using smaller, more compact modular base stations are used for all current installations.

The major electronic components of each cell site are radio frequency transmission and receiving equipment and cell site controller equipment. Cellco's cellular system uses Lucent Flexent® Modular Cell 4.0B cell site equipment to provide complete cell site control and



performance monitoring. This equipment is capable of expanding in modules to meet system growth needs. The cell site equipment primarily provides for: message control on the calling channel; call setup and supervision; radio frequency equipment control; internal diagnostics; response to remote and local test commands; data from the mobile or portable unit in both directions and on all channels; scan receiver control; transmission of power control commands; rescanning of all timing; and commands and voice channel assignment. Additional information with respect to the Lucent Flexent® Modular Cell 4.0B equipment is contained in Attachment 7.

### **3. Technological Alternatives**

Cellco submits that there are no equally effective technological alternatives to the proposal contained herein. In fact, Cellco's wireless system represents state-of-the-art technology offering high-quality service. Cellco is aware of no viable and currently available alternatives to its system design for carriers licensed by the FCC.

#### **C. Site Selection and Tower Sharing**

##### **1. Cell Site Selection**

Cellco's goal in selecting any new cell site location, such as the one proposed here, is to locate its facility in such a manner as to allow it to build and to operate a high-quality wireless system with the least environmental impact. Cellco has determined that the proposed relocated Woodstock Facility will satisfy this goal and enhance Cellco's ability to provide wireless services along portions of Routes 171, 169 and local roads, as well as, residential and commercial land uses in southeast Woodstock in all of its licensed frequency ranges.

The methodology of cell site selection for Cellco's wireless system generally limits the search for possible locations to specific locations on the overall grid for the area. A list of existing towers or other non-tower structures considered, including the existing Woodstock Facility tower, is

included in Attachment 8. Cellco's initial effort to upgrade the existing Woodstock Facility focused on the rebuilding of the existing tower in the southeast corner of the Property. To do so, however, would require American Tower Corporation ("ATC"), the owner of the existing tower, to rebuild the structure and expand the existing leased compound. ATC has been unable to obtain all necessary property rights to rebuild and expand the existing facility. In the Spring of 2009, Cellco began to identify and investigate several alternative cell site locations, including public and private properties in the area. At the suggestion of the First Selectman, Cellco approached Quasset Hill Farm representatives itself to discuss establishing a new cell site in the central portion of the Property. The site search summary, together with the site information contained in Attachment 1, support Cellco's position that the site selected represents the most feasible alternative of the sites investigated. ATC is aware that Cellco is pursuing this Application and, if approved, that Cellco will be removing its equipment from the existing ATC tower on the Property.

## **2. Tower Sharing**

Cellco will design its relocated Woodstock Facility tower so that it could be shared by additional wireless carriers and the Town, if a need exists. This type of tower sharing arrangement would reduce, if not eliminate, the need for these other carriers or municipal entities to develop a separate tower in this same area in the future. As of the date of this filing, no other carrier has expressed any interest in the relocated Woodstock Facility.

### **D. Cell Site Information**

#### **1. Site Facilities**

At the relocated Woodstock Facility, Cellco would construct a 150-foot tall monopole tower and install a total of fifteen (15) panel-type antennas at a centerline height of 147 feet AGL. Cellco's antennas would be attached to a low-profile triangular antenna platform. Cellco would also

install a 12' x 24' single-story shelter near the base of the tower to house Cellco's receiving, transmitting, switching, processing and performance monitoring equipment and the required heating and cooling equipment. A diesel-fueled generator would be installed within a segregated room in Cellco's equipment shelter for use during power outages and periodically for maintenance purposes. The tower and equipment shelter would be surrounded by an 8-foot high security fence and gate. (See Attachment 1).

The equipment shelter would be equipped with silent intrusion and systems alarms. Cellco personnel will be available on a 24-hour basis to receive and to respond to incoming alarms. The equipment building will remain unstaffed, except as required for periodic maintenance purposes.

## **2. Overall Costs and Benefits**

Aside from the limited visual impacts discussed further below, Cellco believes that there are no significant costs attendant to the construction, maintenance, and operation of the proposed cell site. In fact, the public will benefit substantially from its increased ability to receive high-quality, reliable wireless service in southeast Woodstock.<sup>2</sup> The relocated Woodstock Facility would be a part of a communications system that addresses the public need identified by the FCC and the United States Congress for high-quality, competitive mobile and portable wireless service. Moreover, the proposed cell site would be part of a system designed to limit the need for additional cell sites in the future.

The overall costs to Cellco for development of the proposed cell site are set forth in Section III.E. of the Application.

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<sup>2</sup> Businesses across the State have become more dependent on wireless telecommunication services. The public safety benefits of wireless telephone service are illustrated by the Connecticut State Police enhanced 911 ("E-911") emergency calling system. The E-911 emergency calling system is available statewide to all wireless telephone users. Numerous other emergency service organizations have turned to wireless telephone service for use during natural disasters and severe storms when wireline service is interrupted or unavailable.

### 3. Environmental Compatibility

Pursuant to Section 16-50p of the General Statutes, in its review of the Application, the Council is required to find and to determine, among other things, the nature of the probable environmental impact, including a specification of every significant adverse effect of the relocated Woodstock Facility, whether alone or cumulatively with other effects, on, and conflicting with the policies of the state concerning the natural environment, ecological balance, public health and safety, scenic, historic and recreational values, forests and parks, air and water purity and fish and wildlife.

#### a. Primary Facility Impact is Visual

The wireless system of which the relocated Woodstock Facility would be a part has been designed to meet the public need for high-quality, reliable wireless service while minimizing any potential adverse environmental impact. In part because there are few, if any other adverse impacts, the primary impact of facilities such as this is visual. This visual impact will vary from location to location around a tower, depending upon factors such as vegetation, topography, the distance of nearby properties from the tower and the location of buildings and roadways in a "sight line" toward the tower. Similarly, visual impact of a tower facility can be further reduced through the proper use of alternative tower structures; so-called "stealth installations." Where appropriate, telecommunications towers disguised as flagpoles or camouflaged as trees, can help to further reduce visual impacts associated with these structures. Attachment 9 contains a detailed Visual Resource Evaluation Report, prepared by VHB, Inc. (the "VHB Report") that assesses the visual impact of Cellco's proposed 150' monopole tower and includes photosimulations of the new tower at this site for the Council's consideration.

According to the VHB Report, areas where the replacement tower would be visible above the tree canopy comprise approximately 179 acres, approximately 2.2 percent of the 8,042 acre study area. Areas where seasonal views are anticipated comprise of approximately 205 additional acres and are located in the general vicinity of the relocated tower. Approximately 47 residential properties may have, at least, partial year-round views of the top of the new Woodstock Facility tower. Limited seasonal views of the relocated Woodstock Facility are anticipated from portions of approximately 15 additional residential properties.

Weather permitting, Cellco will raise a balloon with a diameter of at least three (3) feet at the proposed cell site on the day of the Council's hearing on this Application, or at a time otherwise specified by the Council.

**b. Environmental Reviews and Agency Comments**

Section 16-50j of the General Statutes requires the Council to consult with and to solicit comments on the Application from the Commissioners of the Departments of Environmental Protection, Public Health, Public Utility Control, Economic Development, and Transportation, the Council on Environmental Quality, and the Office of Policy and Management, Energy Division. In addition to the Council's solicitation of comments, Cellco, as a part of its National Environmental Policy Act ("NEPA") Checklist, solicits comments on the proposed facility from the U.S. Department of the Interior, Fish and Wildlife Service ("USFWS"), Environmental and Geographic Information Center of the Connecticut Department of Environmental Protection ("DEP") and the Connecticut Historical Commission, State Historic Preservation Officer ("SHPO"). Information on the USFWS and DEP reviews regarding impacts on known populations of Federal or State Endangered, Threatened or Special Concern Species occurring at the proposed site are included in Attachment 10. According to the USFWS policy statement dated January 4, 2010, no federally-

listed, endangered or threatened species are known to occur in Woodstock, Connecticut. As discussed in his USFWS Compliance Determination dated November 2, 2010, Dean Gustafson from VHB, Inc. has, therefore, determined that “the proposed [tower] development will not result in an adverse affect to any federally-listed, endangered or threatened species”. In a September 3, 2010 letter, the DEP also confirmed that there are no extant populations of Federal or State Endangered, Threatened or Special Concern species that occur at the Property. A copy of the USFWS information, Mr. Gustafson’s November 2, 2010 memorandum and the DEP’s September 3, 2010 letter are included in Attachment 10.

Also included in Attachment 10 is a January 20, 2011 letter from the SHPO confirming that the relocated Woodstock Facility will have no effect on architectural or archeological resources listed on or eligible for the National Register of Historic Places.

This review by federal and state agencies furnishes ample expert opinion on the potential environmental impacts from the relocated Woodstock Facility, in the context of the criteria which the Council must consider.

**c. Non-Ionizing Radio Frequency Radiation**

The FCC has adopted a standard for exposure to Radio Frequency (“RF”) emissions from telecommunications facilities like the one proposed in this Application. To ensure compliance with the applicable standards, Celco has performed maximum power density calculations for the proposed cell site according to the methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) (“OET Bulletin 65”). The calculation is a conservative, worst-case approximation for RF power density levels at the closest accessible point to the antennas, in this case the base of the tower, and with all antennas transmitting simultaneously on all channels at full power. The calculations indicate that the maximum power

density level for Cellco's cellular, PCS and LTE antennas would be 17.44% of the Standard at the relocated Woodstock Facility. A copy of Cellco's General Power Density calculation table is included in Attachment 11.

**d. Other Environmental Issues**

No sanitary facilities are required for the relocated Woodstock Facility. The operations at the Woodstock Facility will not cause any significant air, water, noise or other environmental impacts, or hazard to human health.

Based on agency comments received and field investigations by Cellco's project team, Cellco submits that the proposed facility will have no significant adverse effect on scenic, natural, historic or recreational features, and that none of the potential effects from the relocated Woodstock Facility alone or cumulatively with other effects is sufficient reason to deny this Application.

**4. Consistency with Local Land Use Controls**

The Council Application Guide for Community Antenna Television and Telecommunication Facilities, as amended in April, 2010, requires the inclusion of a narrative summary of the project's consistency with the Town's Plan of Development and Zoning Regulations, as well as a description of planned and existing uses of the site location and surrounding properties.

**a. Planned and Existing Land Uses**

The relocated Woodstock Facility would be located in the central portion of an approximately 29.5 acre parcel owned by Quasset Hill Farm, LLC. With the exception of the Woodstock Industrial Park District, all land in Town, including the Property, is in the Town's Community District zone. The Property is used for agricultural purposes and is surrounded by other agricultural and low density residential land uses.

**b. Town Plan of Conservation and Development**

The 2002 Town of Woodstock Plan of Conservation & Development (the "Plan") does not identify telecommunications towers as a land use consistent or inconsistent with the general planning and conservation policies of the Town of Woodstock. Four (4) copies of the Plan were filed as a Bulk File Exhibit on January 28, 2011.

**c. Zoning Regulations**

According to Article 1, Section 4 of the Woodstock Zoning Regulations ("Zoning Regulations"), the East Woodstock Facility is located in an area designated "Community District". Pursuant to Article 1, Section 17.4.C. of the Zoning Regulations, a wireless telecommunications facility like that proposed in the Application, is permitted subject to Special Permit and Site Plan approval. The proposed East Woodstock Facility would comply with the General Standards set forth in Article 1, Section 17.3 of the Zoning Regulations. For example, the tower is the minimum height required to satisfy Cellco's objectives; the tower exceeds the 75-foot front yard setback and the 20-foot side and rear yard setbacks and the tower's entire fall zone remains within the Property; the proposed tower is a monopole design and does not require FAA marking or lighting; no signage is proposed to be installed on the tower; and the tower will be designed to accommodate a minimum of three (3) additional carriers to promote tower sharing.

Through Section 17.2 of the Zoning Regulations, the Town has established siting preferences for telecommunications facilities. From most preferred to least preferred, the Town's preferences are as follows:

1. On existing structures (non-residential buildings; water towers; utility poles; steeples; silos; etc.).



2. On existing or approved towers.
3. On new towers located on property occupied by one or more existing towers.
4. On new towers in commercial or industrial areas.
5. On new towers located in residential areas.

More recently, a Regulatory Review Subcommittee agreed to accept the recommendations of the Woodstock Telecommunications Task Force to modify the Telecommunications Facility Siting Preferences. The Chairman of the Woodstock Planning and Zoning Commission expects that these preferences will be incorporated into the Zoning Regulations in the near future. The soon to be established siting preferences place more of an emphasis on the use of “stealth or alternative technologies” in the providing of telecommunications services. The revised preferences as recommended for adoption are:

1. On existing or approved towers;
2. On new towers located on property occupied by one or more existing towers;
3. Utilizing stealth or alternative technologies on or in existing structures, such as non-residential building/facades, water tanks, utility poles, steeples, silos, etc.;
4. Utilizing stealth or alternative technologies located in commercial or industrial areas; or
5. Utilizing stealth or alternative technologies located in residential or public areas.

Four (4) copies of the Woodstock Zoning Regulations were filed as a Bulk File Exhibit on January 28, 2011.

**d. Inland Wetlands and Watercourses Regulations**

The Town of Woodstock Inland Wetlands and Watercourses Regulations, as amended through February 2, 2009, define “regulated activity” as activity within or use of a wetland or

watercourse or any site development activity within 100 feet of a wetland or 125 feet of a continuous watercourse. The local agency may also exercise regulatory authority over activity in a non-wetland (upland) area if it is determined that this activity “is likely to impact or affect wetlands or watercourses”.

According to site surveys and a wetlands delineation report prepared by Dean Gustafson of VHB, Inc., the access driveway will cross an existing drainage ditch feature approximately 75 feet south of the facility compound. This feature is regulated as an “intermittent watercourse”. The crossing will result in a direct impact to approximately 500 square feet of the intermittent watercourse. (See Wetlands Delineation Report – Attachment 12). Four (4) copies of the Woodstock Wetland Regulations were filed as a Bulk File Exhibit on January 28, 2011.

In accordance with the Connecticut Soil Erosion Control Guidelines, as established by the Council for Soil and Water Conservation, adequate and appropriate soil erosion and sedimentation control measures will be established and maintained throughout the cell site construction period. In addition, Cellco will employ appropriate construction management practices to ensure that no pollutants would be discharged to any nearby watercourse or wetland areas or to area groundwater during the construction process.

According to the Federal Emergency Management Agency, Flood Insurance Rate Map (“FIRM”), Community Panel Number 0901200026B (November 1, 1984), the relocated Woodstock Facility is located in Zone C. A copy of the FIRM for the area surrounding the relocated Woodstock Facility is included in Attachment 13.

## **5. Local Input**

Section 16-50l(e) of the Connecticut General Statutes, as amended, requires local input on matters before the Council. On September 17, 2010, Cellco representatives met with First

Selectman Alan D. Walker, Jr. to commence the 60-day municipal consultation process, prior to the filing of the Council application. Mr. Walker received copies of technical information summarizing Cellco's plans to relocate the Woodstock Facility. On October 25, 2010, Cellco representatives appeared before the Woodstock Telecommunications Task Force to discuss its plans to relocate the Woodstock Facility tower and Cellco's future needs in the Town. Notice of the Task Force meeting was published on the Town's website.

**6. Consultations With State and Federal Officials**

Attachments 10 and 14 and Section III.D. of the Application describe Cellco's consultations with state and federal officials regarding Cellco's proposed relocated Woodstock Facility.

**a. Federal Communications Commission**

The FCC did not review this particular proposal. As discussed above, FCC approval is not required where the authorized service area is not enlarged.

**b. Federal Aviation Administration**

As it does with all of its tower applications, Cellco has conducted the appropriate airspace analysis for the proposed relocated Woodstock Facility to determine if the proposed flagpole tower would constitute an obstruction or hazard to air navigation. According to the findings of an Aviation Systems, Inc. Airspace Obstruction Report, there are no federal aviation regulatory or operational factors affecting this site and the proposed structure. A copy of the Aviation Systems, Inc. Report is included in Attachment 14.

**c. United States Fish and Wildlife Service**

According to the USFWS, no federally-listed threatened, endangered or threatened species are known to occur in Woodstock, Connecticut. The relocated Woodstock Facility will not,

therefore, have any adverse effect on this listed species. (See VHB Memorandum dated November 2, 2010, included in Attachment 10).

**d. Connecticut Department of Environmental Protection**

(1) Environmental and Geographic Information Center

As discussed above, the DEP determined that no extant populations of Federal or State Endangered, Threatened or Special Concern Species occur at the Property. (See DEP correspondence dated September 3, 2010, included in Attachment 10).

(2) Bureau of Air Management

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this Application will require the issuance of a permit from the DEP Bureau of Air Management. As proposed, this emergency generator will be run only during the interruption of utility service to the cell site and periodically as required for maintenance purposes. Cellco will obtain the necessary permit prior to installing the generator at the relocated Woodstock Facility.

**e. Connecticut State Historic Preservation Officer**

As discussed above, Attachment 10 also includes the SHPO's determination that the relocated Woodstock Facility will have no effect on architectural or archaeological resources listed on or eligible for the National Register of Historic Places.

**E. Estimated Cost and Schedule**

**1. Overall Estimated Costs**

The total estimated cost of construction of the proposed facility is \$830,000. This estimate includes:

- |     |  |           |
|-----|--|-----------|
| (1) | Cell site radio equipment of approximately     | \$450,000 |
| (2) | Tower, coax and antenna costs of approximately | 100,000   |

(3)	Power systems costs of approximately	40,000
(4)	Equipment building costs of approximately	50,000
(5)	Miscellaneous costs (including site preparation and installation) of approximately	190,000

**2. Overall Scheduling**

Site preparation and engineering would commence following Council approval of Cellco's Development and Maintenance ("D&M") Plan and are expected to be completed within two to four weeks. Due to the delivery schedules of the manufacturers, installation of the building and installation of the tower are expected to take an additional two weeks. Equipment installation is expected to take an additional two weeks after installation of the building and installation of the tower. Cell site integration and system testing is expected to require two weeks after equipment installation.

**IV. CONCLUSION**

Based on the facts contained in this Application, Cellco submits that the establishment of the relocated Woodstock Facility, at the Property will not have any substantial adverse environmental effects. A public need exists for high quality reliable wireless service in the Woodstock area, as determined by the FCC and the United States Congress, and a competitive framework for providing such service has been established by the FCC and the Telecommunications Act of 1996. Cellco submits that the public need far outweighs any potential environmental effects resulting from the construction of the relocated Woodstock Facility.

WHEREFORE, Cellco respectfully requests that the Council grant this Application for a Certificate of Environmental Compatibility and Public Need for the proposed relocated Woodstock Facility.

Respectfully submitted,

CELLCO PARTNERSHIP D/B/A VERIZON  
WIRELESS

By: \_\_\_\_\_  
Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, Connecticut 06103-3597  
(860) 275-8200  
Attorneys for the Applicant

# **WOODSTOCK**

**Relocation of Existing Woodstock Facility  
87 West Quasset Road  
Woodstock, Connecticut**

Description of Proposed Relocated Cell Site

Cellco Partnership d/b/a Verizon Wireless  
99 East River Drive  
East Hartford, CT 06108

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GENERAL CELL SITE DESCRIPTION .....	1
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SITE NAME: WOODSTOCK – 87 West Quasset Road, Woodstock, CT

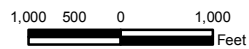
GENERAL CELL SITE DESCRIPTION

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) proposes to relocate its Woodstock Facility to a 50’ x 50’ fenced compound within an 100’ x 100’ leased area in the central portion of an approximately 29.5 acre parcel at 87 West Quasset Road (“Property”). The Property is owned by Quasset Hill Farm LLC. Cellco’s existing Woodstock Facility is located in the southeast portion of the Property and consists of a single whip antenna at the top of a 150-foot narrow-profile lattice tower and a 12’ x 20’ shelter located near the base of the tower. The existing tower is owned by American Tower Corporation. Cellco will remove its antenna and equipment shelter if this proposal to relocate its Woodstock Facility is approved.

The relocated Woodstock Facility would consist of a new 150-foot monopole telecommunications tower and a 12’ x 24’ equipment shelter located near the base of the tower. Cellco would install fifteen (15) panel antennas at the top of the tower at a centerline height of 147 feet. The top of the Cellco antennas would not extend above the top of the tower. Vehicular access to the site would extend from Quasset Hill Road over an existing dirt and gravel driveway to the site compound, a total distance of approximately 1,465 feet. Utility service would extend underground from West Quasset Road to the cell site.

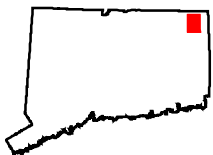


Base Map Source: USGS 7.5 Minute Topographic Quadrangle  
 Maps: Putnam (1970) and Eastford (1983).



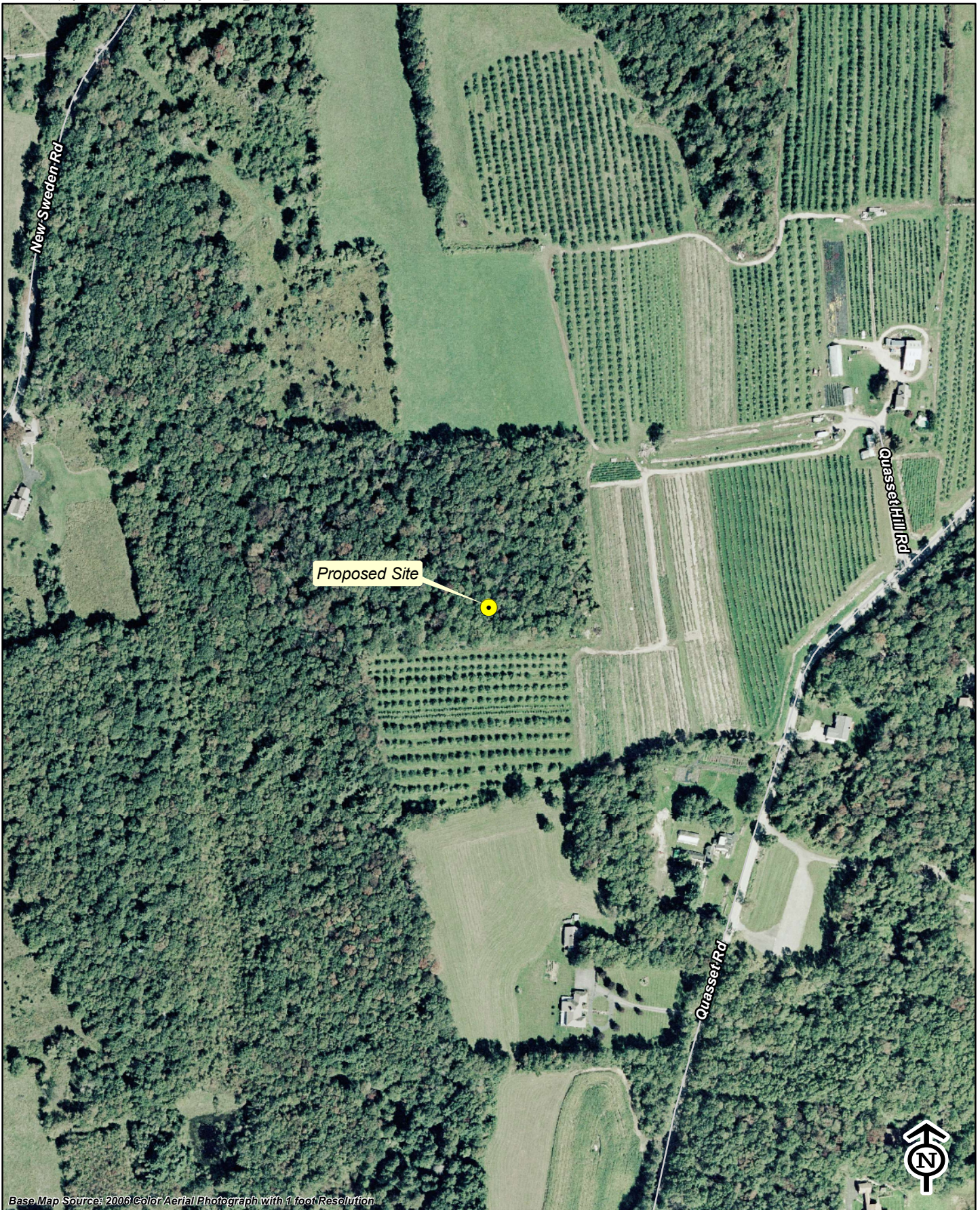
**Vanasse Hangen Brustlin, Inc.**

**USGS Topographic Map  
 Proposed Verizon Wireless Facility  
 Woodstock Relo  
 87 West Quasset Road  
 Woodstock, Connecticut**

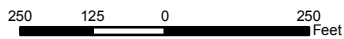


Quadrangle Location





Base Map Source: 2006 Color Aerial Photograph with 1 foot Resolution



Vanasse Hangen Brustlin, Inc.

**Aerial Photograph  
 Proposed Verizon Wireless Facility  
 Woodstock Relo  
 87 West Quasset Road  
 Woodstock, Connecticut**



Quadrangle Location



## SITE EVALUATION REPORT

SITE NAME: WOODSTOCK – 87 West Quasset Road, Woodstock, CT

### I. LOCATION

- A. COORDINATES: 41°-55'-47.184" N 71°-59'-21.547" W
- B. GROUND ELEVATION: Approximately 692± feet AMSL
- C. USGS MAP: Putnam, CT
- D. SITE ADDRESS: 87 West Quasset Road, Woodstock, CT
- E. ZONING WITHIN 1/4 MILE OF SITE: Land within 1/4 mile of the cell site is in the Community District zone designation.

### II. DESCRIPTION

- A. SITE SIZE: 100' x 100' Leased Area  
50' x 50' Fenced Compound
- B. LESSOR'S PARCEL: Approximately 29.5 acres
- C. TOWER TYPE/HEIGHT: 150' Monopole Tower
- D. SITE TOPOGRAPHY AND SURFACE: Topography on the Property slopes generally up from east, along West Quasset Road, to west. Clearing and grading for construction of the site compound will be minimal.
- E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The tower is located in the central portion of a 29.5 acre parcel used for agricultural purposes. Land to the east, south and west slopes down generally within surrounding agricultural land. The access drive will cross a small drainage ditch, regulated as an intermittent watercourse, approximately 75 feet south of the facility compound.
- F. LAND USE WITHIN 1/4 MILE OF SITE: The Property is surrounded by agricultural and some residential land uses along West Quasset Road, Quasset Hill Road and New Sweden Road. (See Aerial Photograph at p. 3).

III. FACILITIES

- A. POWER COMPANY: Connecticut Light and Power
- B. POWER PROXIMITY TO SITE: Approximately 1,115 feet to the southeast of the relocated cell site.
- C. TELEPHONE COMPANY: AT&T
- D. PHONE SERVICE PROXIMITY: Same as power
- E. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from Quasset Hill Road over an improved 12-foot wide gravel driveway to the site compound a total distance of approximately 1,465 feet.
- F. CLEARING AND FILL REQUIRED: Minimal tree clearing and grading would be required for construction of the tower, site compound and access driveway extension. Detailed construction plans would be developed after approval by the Siting Council.

IV. LEGAL

- A. PURCHASE [ ] LEASE [X]
- B. OWNER: Quasset Hill Farm LLC
- C. ADDRESS: 87 West Quasset Road, Woodstock, CT 06281
- D. DEED ON FILE AT: Town of Woodstock, CT Land Records



## ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: WOODSTOCK – 87 West Quasset Hill Road, Woodstock, CT

### I. PHYSICAL IMPACT

#### A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located in the area to be used for the tower or equipment shelter. The proposed access driveway will cross an existing drainage ditch that is regulated as an intermittent watercourse before entering the site compound, resulting in approximately 500 square feet of direct impact to the watercourse. The equipment used by Cellco in its facility will not discharge any pollutants to area surface or groundwater systems. The closest regulated area is the drainage ditch, mentioned above, located approximately 75 feet to the south of the facility compound.

#### B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the site would emit no air pollutants of any kind. For limited periods during power outages and periodically for maintenance purposes, minor levels of emissions from the on-site generator would result.

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this application would require the issuance of a Connecticut Department of Environmental Protection Air Bureau permit for potential emissions. Cellco would obtain this permit prior to installing the generator at the approved cell site.

#### C. LAND

Some clearing and minimal grading of the tower compound and access driveway extension will be required. The remaining land of the Lessor would remain unchanged by the construction and operation of the cell site.

#### D. NOISE

The equipment to be in operation at the site after construction would emit no noise of any kind, except for operation of the installed heating, air conditioning and ventilation systems and occasional operation of a back-up generator which

would be run during power failures and periodically for maintenance purposes. Some noise is anticipated during cell site construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for Cellco's cellular, PCS and LTE antennas at the Woodstock Facility would be 17.44% of the Standard.

F. VISIBILITY

See Visual Resource Evaluation Report included as Attachment 9.



# Cellco Partnership

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

## WIRELESS COMMUNICATIONS FACILITY

### WOODSTOCK

#### CELL SITE RELOCATION

87 WEST QUASSET ROAD

WOODSTOCK, CT 06281

#### SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT TO: 87 WEST QUASSET ROAD WOODSTOCK, CONNECTICUT

1. Start out going NORTHEAST on EAST RIVER DRIVE	0.0 mi.
2. Merge onto I-84 E via the ramp on the LEFT toward BOSTON	30.1 mi.
3. Merge onto CT-190 E via EXIT 73 toward URBON	0.4 mi.
4. Turn RIGHT onto BUCKLEY HWY / CT-190	1.0 mi.
5. Turn RIGHT onto BIGELOW HOLLOW ROAD / CT-171	2.3 mi.
6. Stay STRAIGHT to go onto LAWSON ROAD / CT-197. Continue to follow C-197	3.6 mi.
7. Turn RIGHT onto CENTER ROAD	0.5 mi.
8. Turn RIGHT onto BRADFORD CORNER ROAD	1.0 mi.
9. Turn LEFT onto CT-171 / SOMERS TURNPIKE	3.8 mi.
10. Turn RIGHT onto E QUASSET ROAD	0.4 mi.
11. Turn SLIGHT RIGHT onto W QUASSET ROAD	0.3 mi.
12. End of 87 WEST QUASSET ROAD, on the right.	0.0 mi.

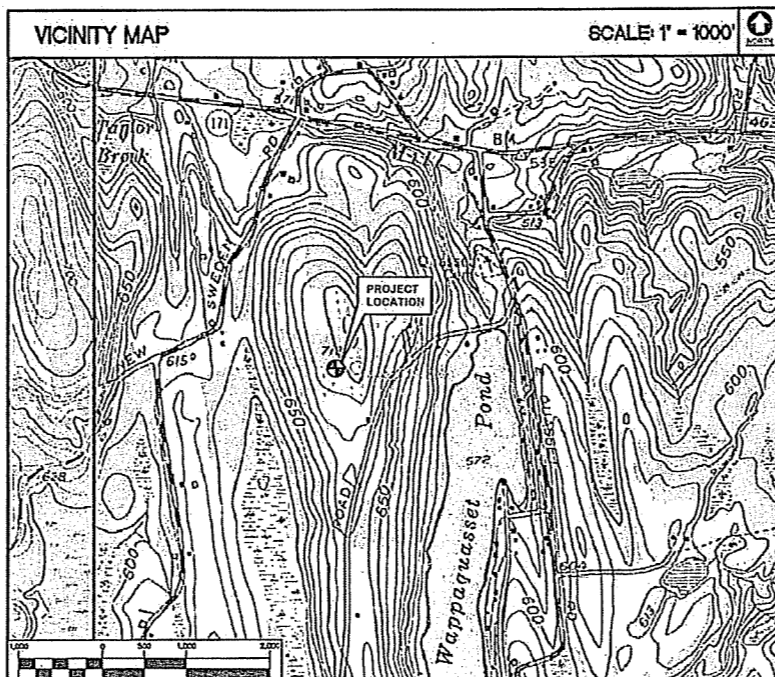
#### GENERAL NOTES

- PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

#### SITE INFORMATION

THE SCOPE OF WORK SHALL INCLUDE:

- THE CONSTRUCTION OF A 50'X50' FENCED WIRELESS COMMUNICATIONS COMPOUND WITHIN A PROPOSED 100'X100' LEASE AREA.
- A TOTAL OF UP TO FIFTEEN (15) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 147'-0"± AGL ON A 150'-0"± PROPOSED STEEL MONOPOLE TOWER.
- TOTAL ACCESS DRIVE LENGTH IS 1,465'± OFF OF QUASSET HILL ROAD. OF THAT TOTAL LENGTH, APPROXIMATELY 1,380'± OF ACCESS DRIVEWAY WILL BE ALONG AN EXISTING FARM ROAD.
- POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM A PROPOSED UTILITY POLE TO BE LOCATED ON WEST QUASSET ROAD NEAR THE SOUTHEAST PORTION OF THE SUBJECT PROPERTY, TO THE PROPOSED UTILITY BACKBOARD LOCATED ADJACENT TO THE PROPOSED FENCED COMPOUND. THE APPROXIMATE LENGTH OF THE PROPOSED CONDUIT RUN/UTILITY EASEMENT IS 1,115'. FINAL UTILITY POLE LOCATION AND CONDUIT ROUTING WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES. UTILITIES WILL BE ROUTED UNDERGROUND FROM UTILITY BACKBOARD TO THE PROPOSED NOMINAL 12'X24' WIRELESS EQUIPMENT SHELTER LOCATED WITHIN FENCED COMPOUND AREA.
- FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE D&M PLANS.
- THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
- THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
- THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.



#### PROJECT SUMMARY

SITE NAME:	WOODSTOCK - CELL SITE RELOCATION
SITE ADDRESS:	87 WEST QUASSET ROAD WOODSTOCK, CT 06281
PROPERTY OWNER:	QUASSET HILL FARM LLC 87 WEST QUASSET ROAD M.A. P.O. BOX 113 WOODSTOCK, CT 06281
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SAVIOY CARTER CELCO PARTNERSHIP (860) 803-8219
ENGINEER:	CENITEK ENGINEERING, LLC 63-2 NORTH BRANFORD ROAD BRANFORD, CT 06405 (203) 488-0580
TOWER COORDINATES:	LATITUDE 41°-55'-47.184" LONGITUDE 71°-59'-21.547" GROUND ELEVATION: 692'± A.M.S.L. COORDINATES AND GROUND ELEVATION BASED ON FAA 2-C SURVEY CERTIFICATION PREPARED BY MARTINEZ COUCH AND ASSOCIATES LLC DATED AUGUST 11, 2010.

#### SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1.0	ABUTTERS MAP	0
C-1.1	PARTIAL SITE / SITE SURVEY PLAN	0
C-1.2	PARTIAL SITE / SITE SURVEY PLAN	0
C-2	COMPOUND PLAN AND ELEVATION	0
C-5	SITE DETAILS AND NOTES	0
C-3	SITE DETAILS AND SHELTER ELEVATIONS	0
C-6	SHELTER FOUNDATION PLAN, DETAILS AND NOTES	0

DESIGNED BY:	CFC
DRAWN BY:	DWD
CHECKED BY:	CFC
ISSUED FOR:	CT SITING COUNCIL - CLIENT REVIEW
ISSUED FOR:	CT SITING COUNCIL - DESCRIPTION
DATE:	01/21/11
SCALE:	AS NOTED
JOB NO.:	02122
TITLE SHEET	
T-1	
Sheet No. 1 of 8	

Cellco Partnership  
d.b.a. Verizon Wireless

CENITEK engineering  
Continued on 02/08/11  
203 488-0580  
63-2 North Branford Road  
Branford, CT 06405  
www.CenitekEng.com

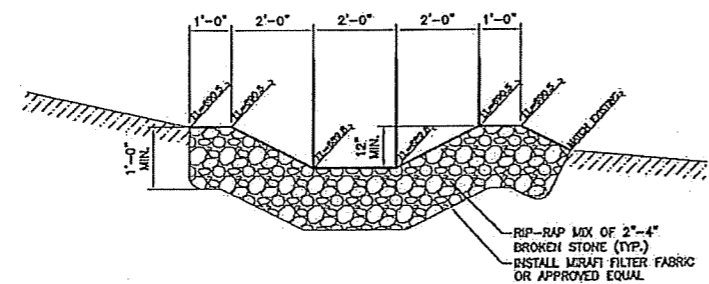
Cellco Partnership d/b/a Verizon Wireless  
WIRELESS COMMUNICATIONS FACILITY  
**WOODSTOCK**  
87 WEST QUASSET ROAD  
WOODSTOCK, CT 06281



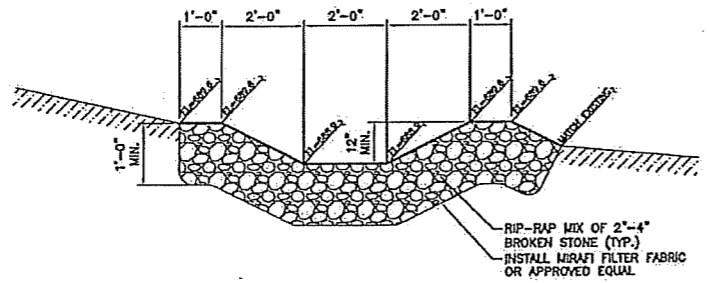




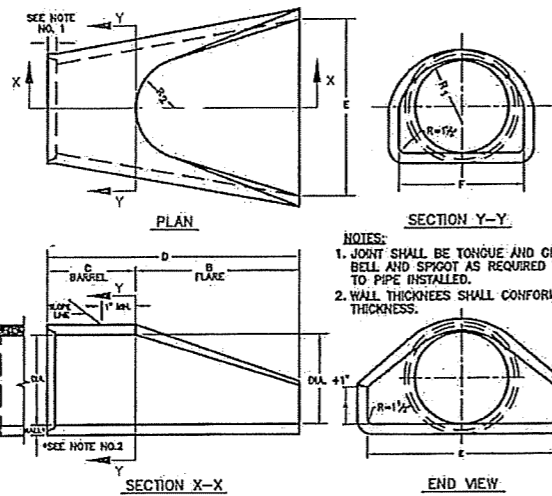




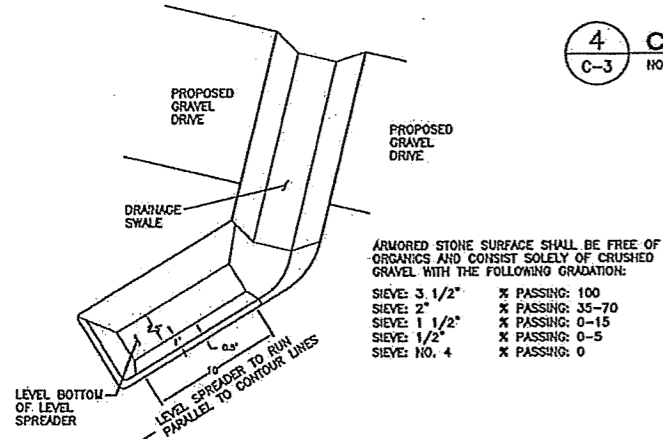
**2 LEVEL SPREADER #1 - SECTION**  
C-3 NOT TO SCALE



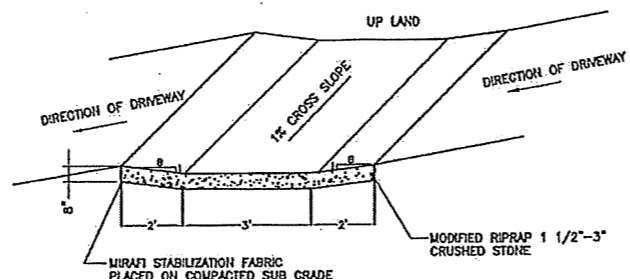
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C-3 NOT TO SCALE



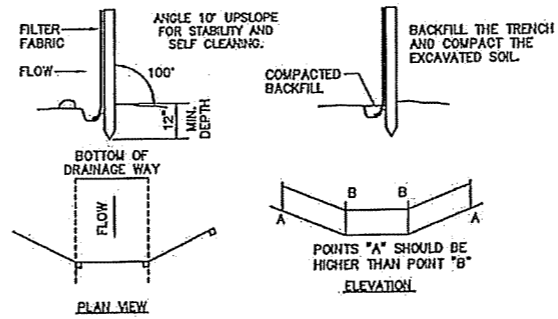
**4 CULVERT- FLARED END SECTION**  
C-3 NOT TO SCALE



**6 TYPICAL LEVEL SPREADER PLAN**  
C-3 NOT TO SCALE

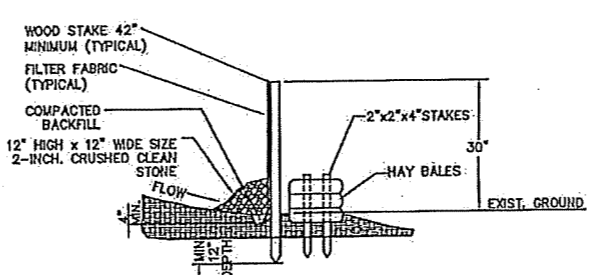


**7 TYPICAL CROSS DRAINAGE SWALE**  
C-3 NOT TO SCALE

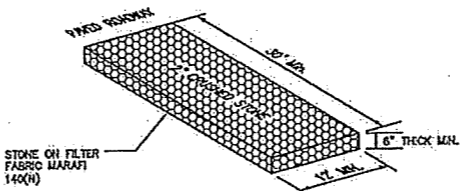


SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

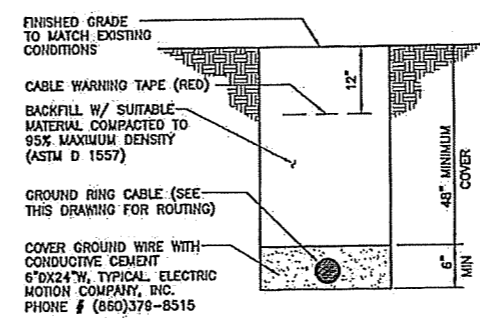
**1 PLACEMENT AND CONSTRUCTION SILTATION FENCE**  
C-3 NOT TO SCALE



**1A TYP. SILTATION FENCE/HAYBALE EROSION CONTROL DETAIL**  
C-3 NOT TO SCALE



**5 CONSTRUCTION ENTRANCE**  
C-3 NOT TO SCALE



NOTES:  
1. BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.  
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

**8 TYPICAL BURIAL GROUND CABLE DETAIL**  
C-3 NOT TO SCALE

**EROSION CONTROL**

**GENERAL CONSTRUCTION SEQUENCE**

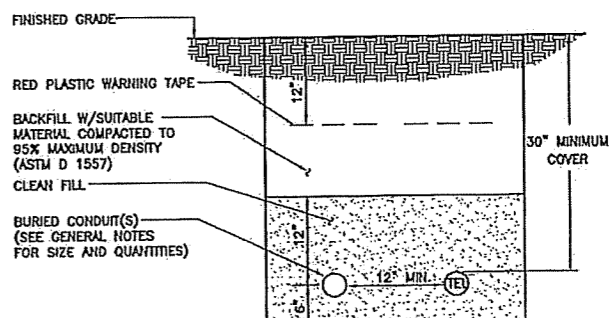
- THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.
- CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
  - INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
  - REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEED TO PREVENT EROSION.
  - CONSTRUCT CLOSED DRAINAGE SYSTEM. PRECEPT CULVERTS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
  - CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
  - INSTALL UNDERGROUND UTILITIES.
  - BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCH IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
  - DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
  - BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
  - FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
  - COMPLETE PERMANENT SEEDING AND LANDSCAPING.
  - NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGRADED AREAS.
  - AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

**CONSTRUCTION SPECIFICATIONS - SILT FENCE**

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

**MAINTENANCE - SILT FENCE**

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



NOTES:  
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.  
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

**9 TYPICAL ELECTRICAL/TEL TRENCH DETAIL**  
C-3 NOT TO SCALE

DESIGNED BY:	CFC
DRAWN BY:	DWD
CHECKED BY:	CFC

NO.	DATE	ISSUED FOR	BY	DESCRIPTION
1	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
2	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
3	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
4	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
5	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
6	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
7	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
8	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
9	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
10	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
11	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
12	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW
13	07/24/11	ISSUED FOR CT SITING COUNCIL	CFC	CLIENT REVIEW

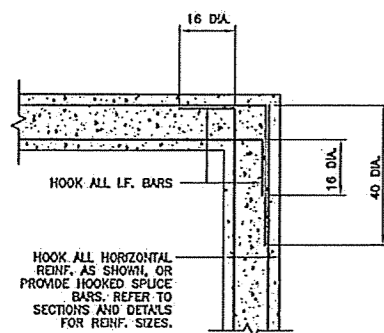
CELLCO PARTNERSHIP d/b/a Verizon Wireless  
WOODSTOCK  
87 WEST CUIASSET ROAD  
WOODSTOCK, CT 06281

DATE: 01/21/11  
SCALE: AS SHOWN  
JOB NO. 09122

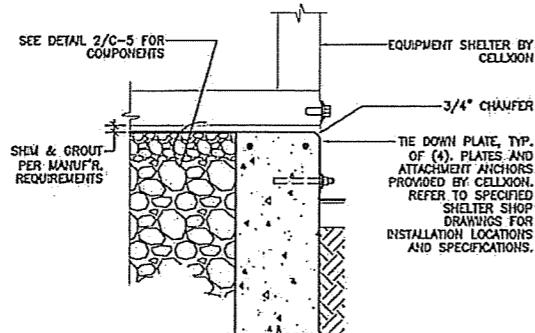
SITE DETAILS AND NOTES

**C-3**  
Sheet No. 5 of 8

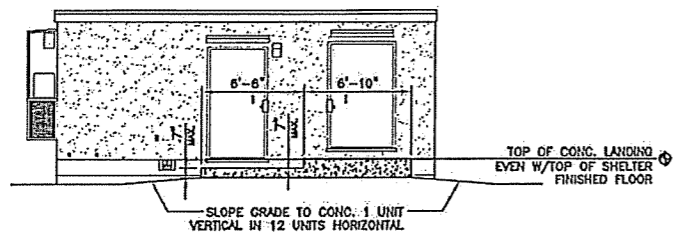




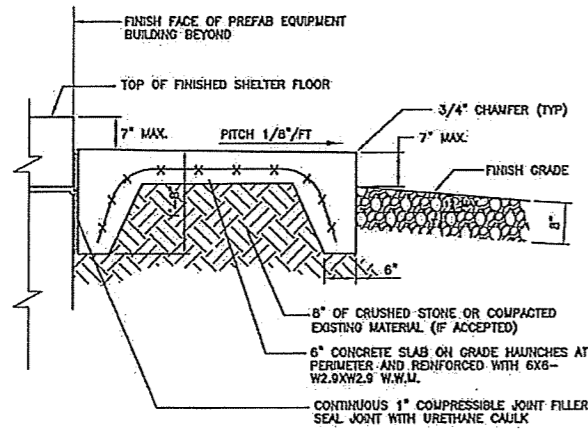
3 PLAN DETAIL  
C-5 NOT TO SCALE



4 BUILDING TIE DOWN  
C-5 SCALE: 1"=1'-0"



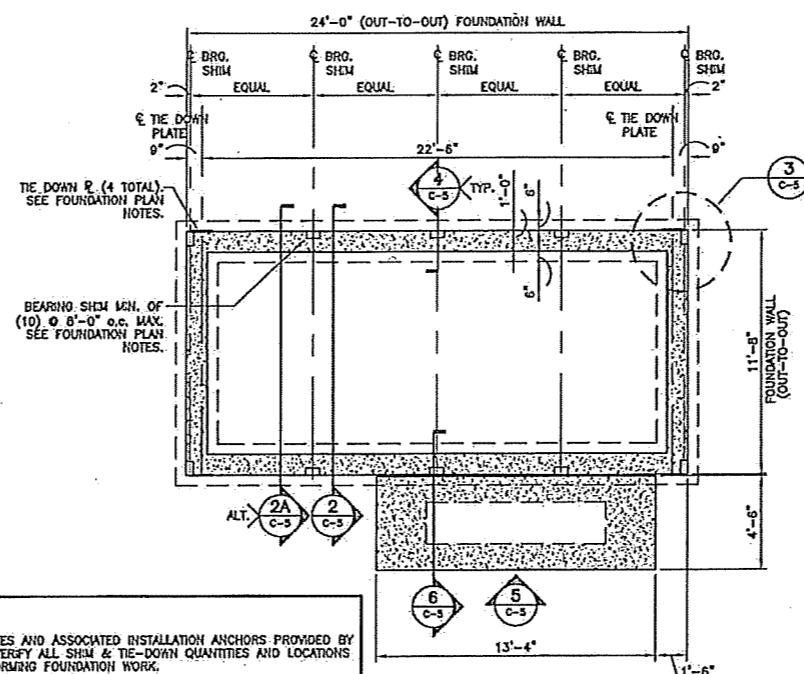
5 ENTRY STOOP DETAIL - ELEVATION  
C-5 SCALE: 3/16"=1'-0"



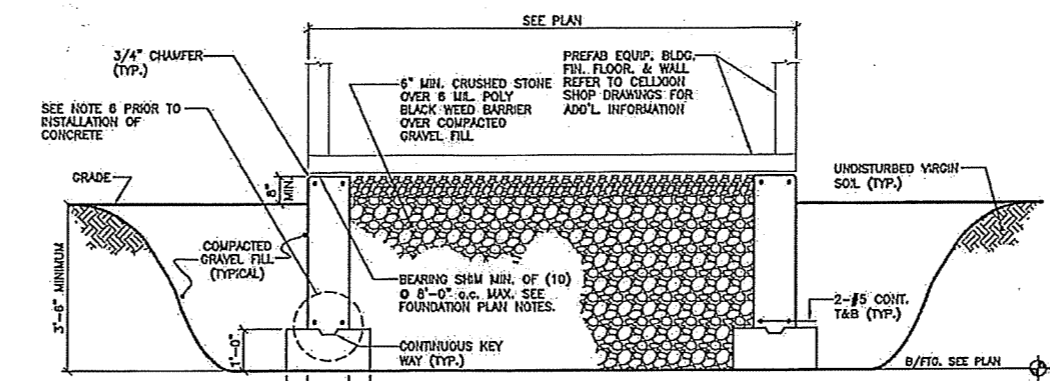
6 ENTRY STOOP DETAIL - SECTION  
C-5 SCALE: 3/16"=1'-0"

EQUIPMENT SHELTER BY CELLXION. VERIFY ALL SHELTER DIMENSIONS, EQUIPMENT DIMENSIONS, EQUIPMENT LOCATIONS AND UTILITY OPENINGS WITH BUILDING SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

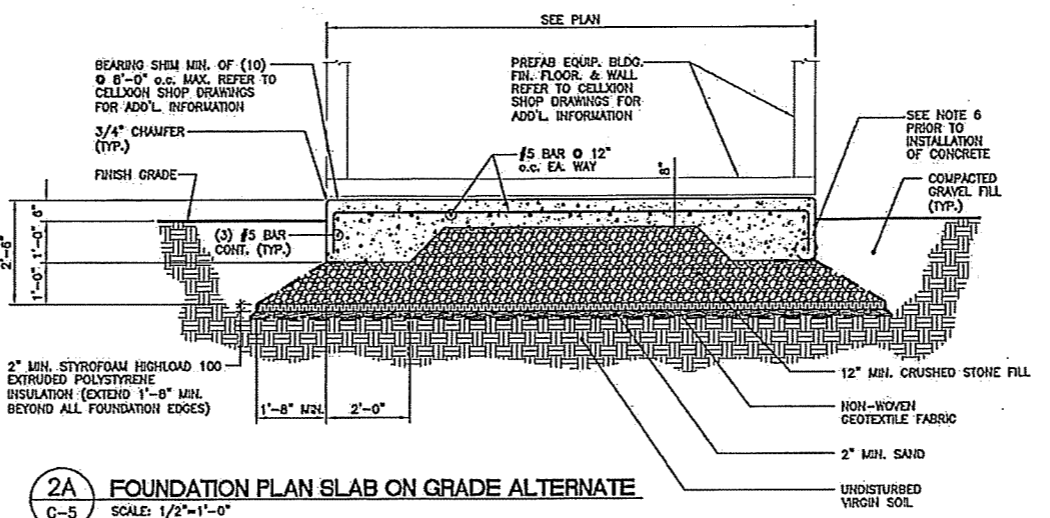
- NOTES:**
- BEARING SHIMS, TIE-DOWN PLATES AND ASSOCIATED INSTALLATION ANCHORS PROVIDED BY CELLXION. CONTRACTOR SHALL VERIFY ALL SHIM & TIE-DOWN QUANTITIES AND LOCATIONS WITH CELLXION PRIOR TO PERFORMING FOUNDATION WORK.
  - SLAB/ TOP OF WALL TOLERANCE IS 1/4"±
  - TOP 8" OF FOUNDATION SIDES MUST BE FORMED FLAT TO ACCEPT TIE-DOWN PLATES.



1 FOUNDATION PLAN  
C-5 SCALE: 1/4"=1'-0"



2 TYPICAL SECTION  
C-5 SCALE: 1/2"=1'-0"



2A FOUNDATION PLAN SLAB ON GRADE ALTERNATE  
C-5 SCALE: 1/2"=1'-0"

- FOUNDATION NOTES:**
- IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
  - DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
  - THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
  - REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

- SITE NOTES:**
- THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  - ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  - ALL RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED OFF SITE AND BE LEGALLY DISPOSED, AT NO ADDITIONAL COST.
  - THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
  - NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
  - THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
  - THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
  - CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
  - IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.
  - DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
  - THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.

- COMPACTED GRAVEL FILL:**
- COMPACTED GRAVEL FILL SHALL BE FURNISHED AND PLACED AS A FOUNDATION FOR STRUCTURES, WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER.
  - GRAVEL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.02.02 OF THE CONNECTICUT D.O.T. STANDARD SPECIFICATIONS, ADMIXTURES AND SURFACE PROTECTIVE MATERIALS USED TO PREVENT THE GRAVEL FROM FREEZING MUST MEET THE APPROVAL OF THE ENGINEER. THE LARGEST STONE SIZE SHALL BE 3-1/2 INCHES.
  - SAMPLES OF THE MATERIAL TO BE USED SHALL BE DELIVERED TO THE JOB SITE 5 DAYS PRIOR TO ITS INTENDED USE SO IT MAY BE TESTED FOR APPROVAL.
  - AFTER ALL EXCAVATION HAS BEEN COMPLETED, GRAVEL SHALL BE DEPOSITED IN LAYERS NOT EXCEEDING EIGHT (8) INCHES IN DEPTH OVER THE AREAS. IN EXCEPTIONAL CASES, THE ENGINEER MAY PERMIT THE FIRST LAYER TO BE THICKER THAN EIGHT (8) INCHES. EACH LAYER SHALL BE LEVELED OFF BY SUITABLE EQUIPMENT. THE ENTIRE AREA OF EACH LAYER SHALL BE COMPACTED BY USE OF APPROVED VIBRATORY, PNEUMATIC-TIRED OR TREAD-TYPE COMPACTION EQUIPMENT. COMPACTION SHALL BE CONTINUED UNTIL THE DRY DENSITY OVER THE ENTIRE AREA OF EACH LAYER IS NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY ACHIEVED BY ASTM T-99 METHOD C. THE MOISTURE CONTENT OF THE GRAVEL SHALL NOT VARY BY MORE THAN 3%± FROM ITS OPTIMUM MOISTURE CONTENT. NO SUBSEQUENT LAYER SHALL BE DEPOSITED UNTIL THE SPECIFIED COMPACTION IS ACHIEVED FOR THE PREVIOUS LAYER. IF NECESSARY TO OBTAIN THE REQUIRED COMPACTION, WATER SHALL BE ADDED AND GENTLE PUDDLING PERFORMED IF AUTHORIZED. COMPACTED GRAVEL FILL SHALL BE PREVENTED FROM FREEZING BY USE OF APPROVED ADMIXTURES OR BY USE OF APPROVED PROTECTIVE MATERIALS ON THE SURFACE, OR BOTH.

- CONCRETE AND REINFORCING STEEL NOTES:**
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318.
  - ALL CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED WITH A MAXIMUM SLUMP OF 4", AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
  - REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS OTHERWISE INDICATED.
  - THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS OTHERWISE NOTED ON THE DRAWINGS:
 

CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER.....	2 IN.
#5 AND SMALLER & WWF.....	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL.....	3/4 IN.
BEAMS AND COLUMNS.....	1 1/2 IN.
  - ALL EXPOSED EDGES OF CONCRETE TO RECEIVE A 3/4" CHAMFER IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
  - CONCRETE EQUIPMENT PAD TO RECEIVE A BRUSHED FINISH.
  - INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT DURING DRILLING WITHOUT PRIOR REVIEW BY THE ENGINEER.

DESIGNED BY: CFC  
 DRAWN BY: KRW  
 CHECK'D BY: DWD

DATE: 01/21/11  
 SCALE: AS NOTED  
 JOB NO.: 09122

SHELTER FOUND. PLAN, DETAILS AND NOTES

C-5  
 Sheet No. 8 of 8

WOODSTOCK  
 87 WEST QUASSET ROAD  
 WOODSTOCK, CT 06281

Cellco Partnership d/b/a Verizon Wireless  
 WIRELESS COMMUNICATIONS FACILITY

CENTEK engineering  
 1000 Main Street  
 Wallingford, CT 06495  
 www.CentekEng.com



## CERTIFICATION OF SERVICE

I hereby certify that on this 28<sup>th</sup> day of January, 2011, copies of the Application and attachments were sent by certified mail, return receipt requested, to the following:

### STATE OFFICIALS:

The Honorable George C. Jepson  
Attorney General  
Office of the Attorney General  
55 Elm Street  
Hartford, CT 06106

Peter J. Boynton  
Commissioner  
Department of Emergency Management and Homeland Security  
25 Sigourney Street, 6<sup>th</sup> Floor  
Hartford, CT 06106-5042

Amey Marrella, Commissioner  
Connecticut Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106

J. Robert Galvin, M.D., M.P.H., M.B.A., Commissioner  
Department of Public Health and Addiction Services  
410 Capitol Avenue  
P.O. Box 340308, MS 13COM  
Hartford, CT 06134-0308

Karl J. Wagener, Executive Director  
Council on Environmental Quality  
79 Elm Street  
P.O. Box 5066  
Hartford, CT 06106

Kevin M. DelGobbo, Chairman  
Department of Public Utility Control  
Ten Franklin Square  
New Britain, CT 06051

Benjamin Barnes, Secretary  
Office of Policy and Management  
450 Capitol Avenue  
Hartford, CT 06134-1441

Joan McDonald, Commissioner  
Department of Economic and Community Development  
505 Hudson Street  
Hartford, CT 06106

Jeffrey A. Parker, Commissioner  
Department of Transportation  
P.O. Box 317546  
2800 Berlin Turnpike  
Newington, CT 06131-7546

Karen Senich, Executive Director  
Connecticut Commission on Culture & Tourism  
Historic Preservation and Museum Division  
One Constitution Plaza, 2<sup>nd</sup> Floor  
Hartford, CT 06103

**WOODSTOCK TOWN OFFICIALS:**

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

The Honorable Anthony Guglielmo  
Senator  
100 Stafford Street  
Stafford Springs, CT 06076

The Honorable Michael Alberts  
Representative – 50<sup>th</sup> District  
P.O. Box 206  
East Woodstock, CT 06244

Judy Walberg  
Town Clerk  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Jeffrey Gordon, MD, Chairman  
Town Planning & Zoning Commission  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Martin Nieski, Chairman  
Zoning Board of Appeals  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Jeffrey Gordon, MD, Chairman  
Telecommunications Task Force  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Delia Fey, AICP  
Town Planner/Zoning Enforcement Officer  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Jean Pillo, Chairman  
Conservation Commission  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Mark A. Parker, Chairman  
Inland Wetlands and Watercourses Agency  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

Northeast Connecticut Council of Governments  
125 Putnam Pike (Route 12)  
P.O. Box 759  
Dayville, CT 06241

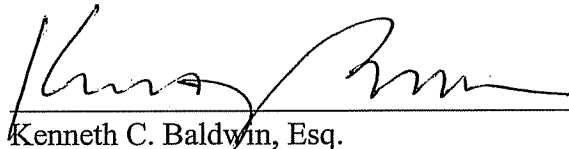
**FEDERAL OFFICIALS:**

The Honorable Richard Blumenthal  
United States Senator  
G55 Dirksen Senate Office Building  
Washington, DC 20510

The Honorable Joseph Lieberman  
United States Senator  
706 Hart Senate Office Building  
Washington, DC 20510

The Honorable Joseph Courtney  
Representative  
215 Cannon House Office Building  
Washington, DC 20515

Federal Communications Commission  
445 12<sup>th</sup> Street SW  
Washington, DC 20554



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Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103  
Telephone: (860) 275-8200  
Attorneys for Cellco Partnership d/b/a Verizon Wireless

## LEGAL NOTICE

Notice is hereby given, pursuant to Section 16-50(b) of the Connecticut General Statutes and Regulations pertaining thereto, of an Application to be submitted to the Connecticut Siting Council ("Council") on or about January 28, 2011, by Cellco Partnership d/b/a Verizon Wireless ("Cellco" or the "Applicant"). The Application proposes the relocation of an existing wireless telecommunications facility on property at 87 West Quasset Road in the Town of Woodstock, Connecticut. The relocated facility will consist of a new 150-foot monopole tower within a 50' x 50' fenced compound in the central portion of an approximately 29.5 acre parcel owned by Quasset Hill Farm LLC. The replacement tower will be located approximately 695 feet northwest of the current tower location. Access to the relocated facility will extend from Quasset Hill Road, along an existing dirt and gravel driveway, to the cell site, a distance of approximately 1,625 feet. Cellco will install fifteen (15) antennas at the top of the tower and a new 12' x 24' shelter near the base of the tower. This shelter will house Cellco's radio equipment and a back-up generator. The location and other features of the proposed facility are subject to change under provisions of Connecticut General Statutes § 16-50g et. seq.

On the day selected for the Siting Council public hearing on this proposal, Cellco will fly a balloon at the height of the proposed tower. Interested parties and residents of the Town of Woodstock are invited to review the Application during normal business hours at any of the following offices:

Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Cellco Partnership d/b/a Verizon Wireless  
99 East River Drive  
East Hartford, CT 06108

Town Clerk  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

First Selectman  
Town of Woodstock  
415 Route 169  
Woodstock, CT 06281

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

CELLCO PARTNERSHIP d/b/a VERIZON  
WIRELESS

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

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

January 26, 2011

**Via Certified Mail Return Receipt Requested**

«Name\_and\_Address»

**Re: Cellco Partnership d/b/a Verizon Wireless  
Relocation of Existing Telecommunications Facility  
87 West Quasset Road, Woodstock, Connecticut**

Dear «Salutation»:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) will be submitting an application to the Connecticut Siting Council (“Council”) on or about January 28, 2011, for approval to relocate an existing telecommunications facility on a 29.5 acre parcel located at 87 West Quasset Road in Woodstock, Connecticut (the “Property”). The Property is owned by Quasset Hill Farm LLC.

The relocated facility would consist of a new 150-foot self-supporting monopole tower and a 12’ x 24’ shelter located in the center of the Property. The shelter would house Cellco’s radio equipment and a back-up generator. The tower would be designed to accommodate multiple carriers. (See attached project plans). The existing telecommunications facility consists of a 150-foot tall narrow-profile lattice tower and a 12’ x 20’ equipment shelter located in the southeast corner of the Property, approximately 695 feet to the southeast of the new tower.

The location and other features of the proposed facility are subject to change under the provisions of Connecticut General Statutes § 16-50g et seq.

State law provides that owners of record of property which abuts a parcel on which the proposed facility may be located must receive notice of the submission of this application. This notice is directed to you either because you may be an abutting land owner or as a courtesy notice.

January 26, 2011

Page 2

If you have any questions concerning the application, please direct them to either the Connecticut Siting Council or me. My address and telephone number are listed above. The Siting Council may be reached at its New Britain, Connecticut office at (860) 827-2935.

Very truly yours,

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





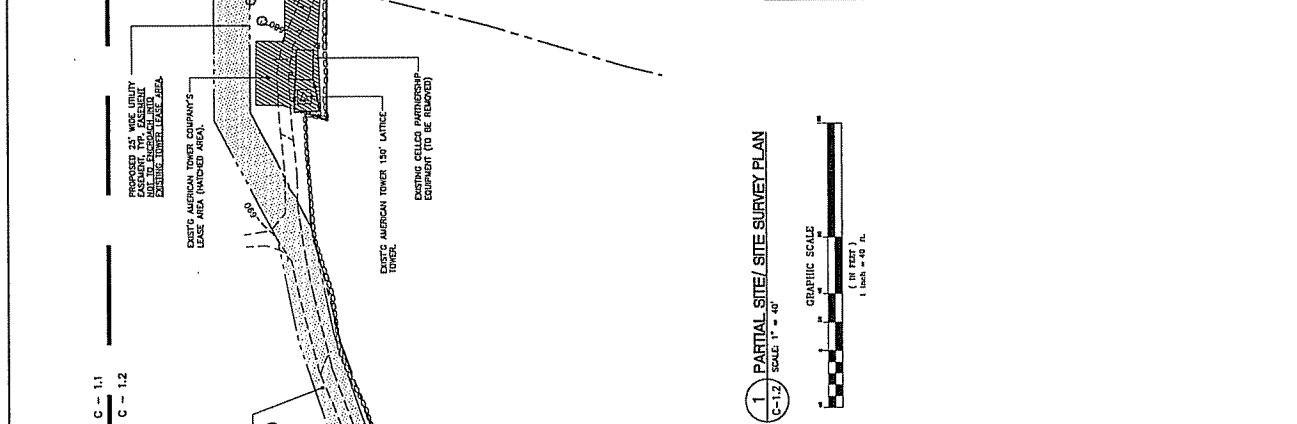
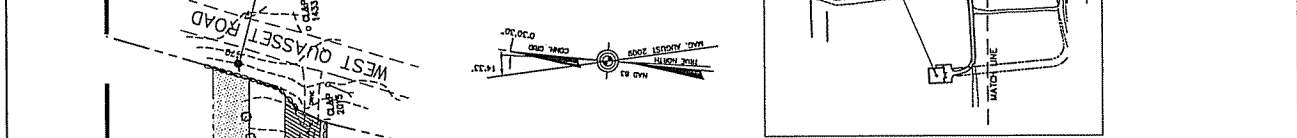




<b>WOODSTOCK</b> WOODSTOCK COMMUNICATIONS FACILITY 87 WEST QUASSET ROAD WOODSTOCK, CT 06281		DATE: 01/11/11 SCALE: AS NOTED JOB NO.: 09122
<b>CELICO PARTNERSHIP d/b/a Verizon Wireless</b>		<b>PARTIAL SITE / SITE SURVEY PLAN</b>
<b>C-12</b> SHEET NO. 1 OF 3		

PROFESSIONAL ENGINEER SEAL d/b/a Verizon Wireless Celico Partnership	CONTRACT NO. 1000 632 WESTPORT ROAD BRIDGE CT 06281 WOODSTOCK, CT
--	--

REV.	DATE	BY	CHK'D BY	DESCRIPTION
1	01/27/11	MS	MS	ISSUED FOR CT SINKING COUNCIL
2	01/27/11	MS	MS	ISSUED FOR CT SINKING COUNCIL - CLIENT REVIEW



**SYMBOL AND LINE TYPE LEGEND**

PROPERTY LINE  
 EASEMENT LINE (PROPOSED)  
 LEASE AREA LINE (PROPOSED)  
 CONTOUR LINE  
 FENCE (PROPOSED)  
 SPOT ELEVATIONS (EXISTING)  
 SPOT ELEVATIONS (PROPOSED)  
 IRON PIN / IRON PIPE FOUND  
 CONCRETE MONUMENT / OLD FOUND  
 EXIST'G UTILITY POLE  
 FLAGGED WETLAND BOUNDARY  
 DECIDUOUS TREE  
 EVERGREEN TREE  
 EXISTING DECIDUOUS TREE  
 EXISTING CONIFEROUS TREE  
 GRVEL ACCESS DRIVE (PROPOSED)  
 SALIVATION/MANTALE CHECKDAM

**NOTES**

1. CELICO PARTNERSHIP TO REMOVE EXISTING CELICO PARTNERSHIP EQUIPMENT FROM EXISTING AMERICAN TOWER COMPANY'S LEASE AREA. REMOVAL OF EQUIPMENT TO BE DETERMINED BY UTILITY COMPANY.

2. PROPOSED UTILITY EASEMENT AND CONDUIT TRENCHES SHALL BE INSTALLED BY UTILITY COMPANY. FINAL TRENCHES SHALL BE LOCATED IN ACCORDANCE WITH THE COMPANY'S LEASE AREA. TRENCHES SHALL BE LOCATED TO THE GREATEST EXTENT POSSIBLE.

**PARCEL OWNER OF RECORD:** QUASSET HILL FARM LLC  
 63B3 BLOCK 66 LOT 3 WOODSTOCK ASSessor'S OFFICE  
 WOODSTOCK, CT 06281

**PARCEL AREA:** 29.2± ACRES.

**PARCEL IS IN THE COMMUNITY DISTRICT:** WOODSTOCK ZONING DISTRICT.

**PARCEL IS IN ZONE C ON THE FLOOD INSURANCE RATE MAP, WOODSTOCK, CONNECTICUT.** THE FLOOD INSURANCE RATE MAP IS AVAILABLE AT THE COMMUNITY DEVELOPMENT DEPARTMENT, 100 MAIN STREET, WOODSTOCK, CT 06281. FOR MORE INFORMATION, CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT (860) 253-1000.

**EMERGENCY MANAGEMENT AGENCY:** WOODSTOCK TOWN ENGINEER, 100 MAIN STREET, WOODSTOCK, CT 06281.

**NOT ALL IMPROVEMENTS SHOWN.**

**SURVEY NOTES**

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF THE REGULATION OF PROFESSIONAL SURVEYORS AND MAPPING ACTS OF THE STATE OF CONNECTICUT, PUBLIC ACTS 10-100, 10-101, 10-102, 10-103, 10-104, 10-105, 10-106, 10-107, 10-108, 10-109, 10-110, 10-111, 10-112, 10-113, 10-114, 10-115, 10-116, 10-117, 10-118, 10-119, 10-120, 10-121, 10-122, 10-123, 10-124, 10-125, 10-126, 10-127, 10-128, 10-129, 10-130, 10-131, 10-132, 10-133, 10-134, 10-135, 10-136, 10-137, 10-138, 10-139, 10-140, 10-141, 10-142, 10-143, 10-144, 10-145, 10-146, 10-147, 10-148, 10-149, 10-150, 10-151, 10-152, 10-153, 10-154, 10-155, 10-156, 10-157, 10-158, 10-159, 10-160, 10-161, 10-162, 10-163, 10-164, 10-165, 10-166, 10-167, 10-168, 10-169, 10-170, 10-171, 10-172, 10-173, 10-174, 10-175, 10-176, 10-177, 10-178, 10-179, 10-180, 10-181, 10-182, 10-183, 10-184, 10-185, 10-186, 10-187, 10-188, 10-189, 10-190, 10-191, 10-192, 10-193, 10-194, 10-195, 10-196, 10-197, 10-198, 10-199, 10-200, 10-201, 10-202, 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10-828, 10-829, 10-830, 10-831, 10-832, 10-833, 10-834, 10-835, 10-836, 10-837, 10-838, 10-839, 10-840, 10-841, 10-842, 10-843, 10-844, 10-845, 10-846, 10-847, 10-848, 10-849, 10-850, 10-851, 10-852, 10-853, 10-854, 10-855, 10-856, 10-857, 10-858, 10-859, 10-860, 10-861, 10-862, 10-863, 10-864, 10-865, 10-866, 10-867, 10-868, 10-869, 10-870, 10-871, 10-872, 10-873, 10-874, 10-875, 10-876, 10-877, 10-878, 10-879, 10-880, 10-881, 10-882, 10-883, 10-884, 10-885, 10-886, 10-887, 10-888, 10-889, 10-890, 10-891, 10-892, 10-893, 10-894, 10-895, 10-896, 10-897, 10-898, 10-899, 10-900, 10-901, 10-902, 10-903, 10-904, 10-905, 10-906, 10-907, 10-908, 10-909, 10-910, 10-911, 10-912, 10-913, 10-914, 10-915, 10-916, 10-917, 10-918, 10-919, 10-920, 10-921, 10-922, 10-923, 10-924, 10-925, 10-926, 10-927, 10-928, 10-929, 10-930, 10-931, 10-932, 10-933, 10-934, 10-935, 10-936, 10-937, 10-938, 10-939, 10-940, 10-941, 10-942, 10-943, 10-944, 10-945, 10-946, 10-947, 10-948, 10-949, 10-950, 10-951, 10-952, 10-953, 10-954, 10-955, 10-956, 10-957, 10-958, 10-959, 10-960, 10-961, 10-962, 10-963, 10-964, 10-965, 10-966, 10-967, 10-968, 10-969, 10-970, 10-971, 10-972, 10-973, 10-974, 10-975, 10-976, 10-977, 10-978, 10-979, 10-980, 10-981, 10-982, 10-983, 10-984, 10-985, 10-986, 10-987, 10-988, 10-989, 10-990, 10-991, 10-992, 10-993, 10-994, 10-995, 10-996, 10-997, 10-998, 10-999, 10-1000.

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL.

A. RAFAEL MARRINEZ LLS F18333 DATE











**ADJACENT PROPERTY OWNERS**

SITE NAME: WOODSTOCK RELO

OWNER NAME: QUASSET HILL FARM LLC

OWNER ADDRESS: 87 WEST QUASSET ROAD, WOODSTOCK, CONNECTICUT 06281

ASSESSOR'S REFERENCE: MAP: 6393 BLOCK: 66 LOT: 3

THE FOLLOWING INFORMATION WAS COLLECTED FROM THE TAX ASSESSOR'S RECORDS AND LAND RECORDS OF WOODSTOCK TOWN HALL, WOODSTOCK, CONNECTICUT. THE INFORMATION IS CURRENT AS OF JANUARY 6, 2011.

THE PARCEL IS ZONED COMMUNITY DISTRICT.

	<b><u>Map/Block/Lot</u></b>	<b><u>Owner and Mailing Address</u></b>	<b><u>Property Address</u></b>
1.	6393/66/04	Quasset Hill Farm LLC P.O. Box 113 Woodstock, CT 06281	15 Quasset Hill Road
2.	6393/66/10	Wyndham Land Trust, Inc. P.O. Box 302 Pomfret Center, CT 06259	New Sweden Road
3.	6393/66/11	Robert G. and Suzanne M. Gatineau 114 New Sweden Road Woodstock, CT 06281	114 New Sweden Road
4.	5781/66/09	Mark C. Collins and Maria Marta 30 New Sweden Road Woodstock, CT 06281	30 New Sweden Road
5.	5781/66/12	Thomas R. Davis 173 Cassidy Road Pomfret Center, CT 06259	435 West Quasset Road
6.	5781/66/2	Joann and David G. Black III 115 West Quasset Road Woodstock, CT 06281	115 West Quasset Road
7.	5781/66/02A	Richard T. Carr 99 West Quasset Road Woodstock, CT 06281	99 West Quasset Road

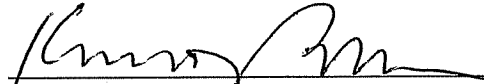
	<u>Map/Block/Lot</u>	<u>Owner and Mailing Address</u>	<u>Property Address</u>
8.	6393/65/225	Pomfret School, Inc. 398 Pomfret Street Pomfret, CT 06258	98 West Quasset Road
9.	6393/65/225A-1	David A. and Alice C. Belden 56 West Quasset Road Woodstock, CT 06281	56 West Quasset Road
10.	6393/65/225A	Harold R. Bishop 68 West Quasset Road Woodstock, CT 06281	68 West Quasset Road
11.	6393/65/225A-2	Sharon S. Anderson 70 Perry Hill Road Ashford, CT 06278	80 West Quasset Road

**CERTIFICATION OF SERVICE**

I hereby certify that a copy of the foregoing letter was sent by certified mail, return receipt requested, to each of the parties on the attached lists of abutting landowners.

January 26, 2011

Date



Kenneth C. Baldwin, Esq.

Robinson & Cole LLP

280 Trumbull Street

Hartford, CT 06103

Attorneys for CELLCO PARTNERSHIP d/b/a  
VERIZON WIRELESS

ULS License

## Cellular License - KNKN862 - Cellco Partnership

Call Sign	KNKN862	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

**Market**

Market	CMA358 - Connecticut 2 - Windham	Channel Block	A
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Submarket	0	Phase	2
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**Dates**

Grant	10/10/2001	Expiration	10/01/2011
Effective	03/21/2007	Cancellation	

**Five Year Buildout Date**

01/08/1997

**Control Points**

- 1**            180 WASHINGTON VALLEY ROAD, BEDMINSTER, NJ  
P: (800)852-2671
- 2**            482 PIDGEON HILL RD., WINDSOR, CT  
P: (860)688-5901

**Licensee**

FRN	0003290673	Type	Partnership
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**Licensee**

Cellco Partnership 1120 Sanctuary Pkwy, #150 GASAS5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
--	--

**Contact**

Verizon Wireless Sonya R Dutton 1120 Sanctuary Pkwy, #150 GASAS5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
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**Ownership and Qualifications**

Radio Service Type Mobile

Regulatory Status	Common Carrier	Interconnected	Yes
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**Alien Ownership**

- Is the applicant a foreign government or the representative of any foreign government?    No
- Is the applicant an alien or the representative of an alien?    No
- Is the applicant a corporation organized under the laws of any foreign government?    No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? **No**

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Cellular License - KNKN862 - Cellco Partnership - Frequencies

Call Sign      KNKN862

Radio Service    CL - Cellular

[Return to Main](#)

### A Block

824.04 - 834.99 paired with 869.04 - 879.99

845.01 - 846.48 paired with 890.01 - 891.48

ULS License

## PCS Broadband License - KNLH263 - Cellco Partnership

Call Sign	KNLH263	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

**Market**

Market	BTA319 - New London-Norwich, CT	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

**Dates**

Grant	07/23/2007	Expiration	06/27/2017
Effective	07/23/2007	Cancellation	

**Buildout Deadlines**

1st	06/27/2002	2nd	
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**Notification Dates**

1st	05/29/2002	2nd	
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**Licensee**

FRN	0003290673	Type	Joint Venture
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**Licensee**

Cellco Partnership 1120 Sanctuary Pkwy, #150 GASA5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
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**Contact**

Verizon Wireless Sonya R Dutton 1120 Sanctuary Pkwy, #150 GASA5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
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**Ownership and Qualifications**

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? **No**

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender