

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
: :  
A PETITION OF CELLCO PARTNERSHIP : PETITION NO. \_\_\_\_  
D/B/A VERIZON WIRELESS FOR A :  
DECLARATORY RULING ON THE NEED TO :  
OBTAIN A SITING COUNCIL CERTIFICATE :  
FOR THE INSTALLATION OF A SMALL :  
CELL TELECOMMUNICATIONS FACILITY :  
ON THE ROOF OF THE BUILDING AT 200 :  
EXECUTIVE BOULEVARD, :  
SOUTHINGTON, CONNECTICUT : FEBRUARY 27, 2015

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

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” telecommunications tower mast on the roof of an existing four-story office building at 200 Executive Boulevard in Southington, Connecticut (the “Property”). The Property is owned by Executive Two Hundred, LLC (“Owner”). Cellco has identified this cell site as its Southington SC2 Facility.

II. Factual Background

The Property, a 12.14 acre parcel in Southington’s Industrial (I-1) zone, is surrounded by

other office and commercial uses along Executive Boulevard and West Street (Route 229), north of the I-84 (Exit 31) interchange. (See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph)).

Cellco currently maintains two (2) cell sites within approximately one (1) mile of the Property. Cellco's Southington cell site consists of antennas at the 130-foot level on a tower at 625 Spring Street. Cellco's Southington 2 cell site consists of antennas on the roof of a building at 217 Center Street. The Gamma sector antennas at Cellco's Southington cell site are currently operating beyond their existing capacity limits (a/k/a exhausting). Commercial, office and retail development along Route 229 and Executive Boulevard north of I-84 has been identified as data traffic concentration area that contributes to this existing capacity problem. In an effort to relieve this capacity problem and provide customers with improved wireless service in the area, Cellco has proposed to install a small cell facility on the roof of the building at the Property.

### III. Proposed Southington SC2 Facility

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Southington and throughout the State of Connecticut. Initially, the proposed Southington SC2 Facility described above will provide wireless service in Cellco's 2100 MHz (AWS) frequency range only. Coverage plots showing Cellco's service in Southington and the surrounding towns today and the coverage footprint for the proposed Southington SC2 Facility are included in Attachment 2.

The proposed Southington SC2 Facility would consist of a single canister-type antenna at the top of a small tower/mast structure attached to an existing mechanical equipment screen wall on the roof of the building. The mast and the antenna would extend approximately five (5) feet above the screen wall. Equipment associated with the small cell will be located in a small

cabinet attached to the inside of the same mechanical equipment screen wall. The equipment cabinet will house all of Cellco's small cell radio equipment and a four (4) hour battery back-up power supply system. Power and telephone service to the small cell equipment will extend from existing service inside the building. (See Cellco's Project Plans included in Attachment 3). Specifications for the small cell antenna (Commscope Model NH360QS-DG-F0M) and equipment cabinet. Cellco intends to use at this facility are included in Attachment 4.

#### IV. Discussion

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

The Public Utility Environmental Standards Act (the "Act"), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid "a significant impact on the environment and ecology of the State of Connecticut." C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers "that may, as determined by the council, have a substantial adverse environmental effect". C.G.S. § 16-50k(a).

##### 1. Physical Environmental Effects

Cellco respectfully submits that the installation of a small stub tower/mast supporting a single small cell canister-type antenna and the mounting of an equipment cabinet on the inside of an existing mechanical equipment screen wall on the roof of the building, will not involve a significant alteration in the physical and environmental characteristics of the Property. No ground disturbance of any kind is necessary or proposed as a part of this small cell facility installation.

2. Visual Effects

The installation of a small stub tower/mast and a single canister-type antenna on the roof of the existing four-story office building at the Property would have minimal visual effects on the Property or the surrounding area. (See Visual Memorandum and Photo-Simulations included in Attachment 5). The visibility of the small cell installation would be limited to locations within approximately 800 feet and only from the south, east and northeast of the Property. The small cell mast and antenna would blend in with existing infrastructure and exhaust stacks on the roof, resulting in little or no adverse visual impacts.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be far below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 6 is a worst-case MPE calculation for Cellco’s Southington SC2 Facility.

4. FAA Summary Report

Included in Attachment 7 is a Federal Airways & Airspace Summary Report verifying that the new stub tower/mast and antenna installation on the roof of the office building at the Property would not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to the Town Council and Town Manager, Property Owner and Abutting Landowners

On February 27, 2015, a copy of this Petition was sent to Southington’s Town Manager Garry Brumback and Deputy Town Manager Mark Sciota. A copy of the Petition was also sent to Executive Two Hundred, LLC, the owner of the Property. Included in Attachment 8 is a copy of the letters sent to Messrs. Brumback and Sciota and the owner of the Property. Notice of Cellco’s intent to file this Petition together with a site schematic plan and set of project plans,


was sent to the owners of land that abuts the Property. A sample abutter's letter, and the list of those abutting landowners who were sent notice of the filing of the Petition is included in Attachment 9.

V. Conclusion

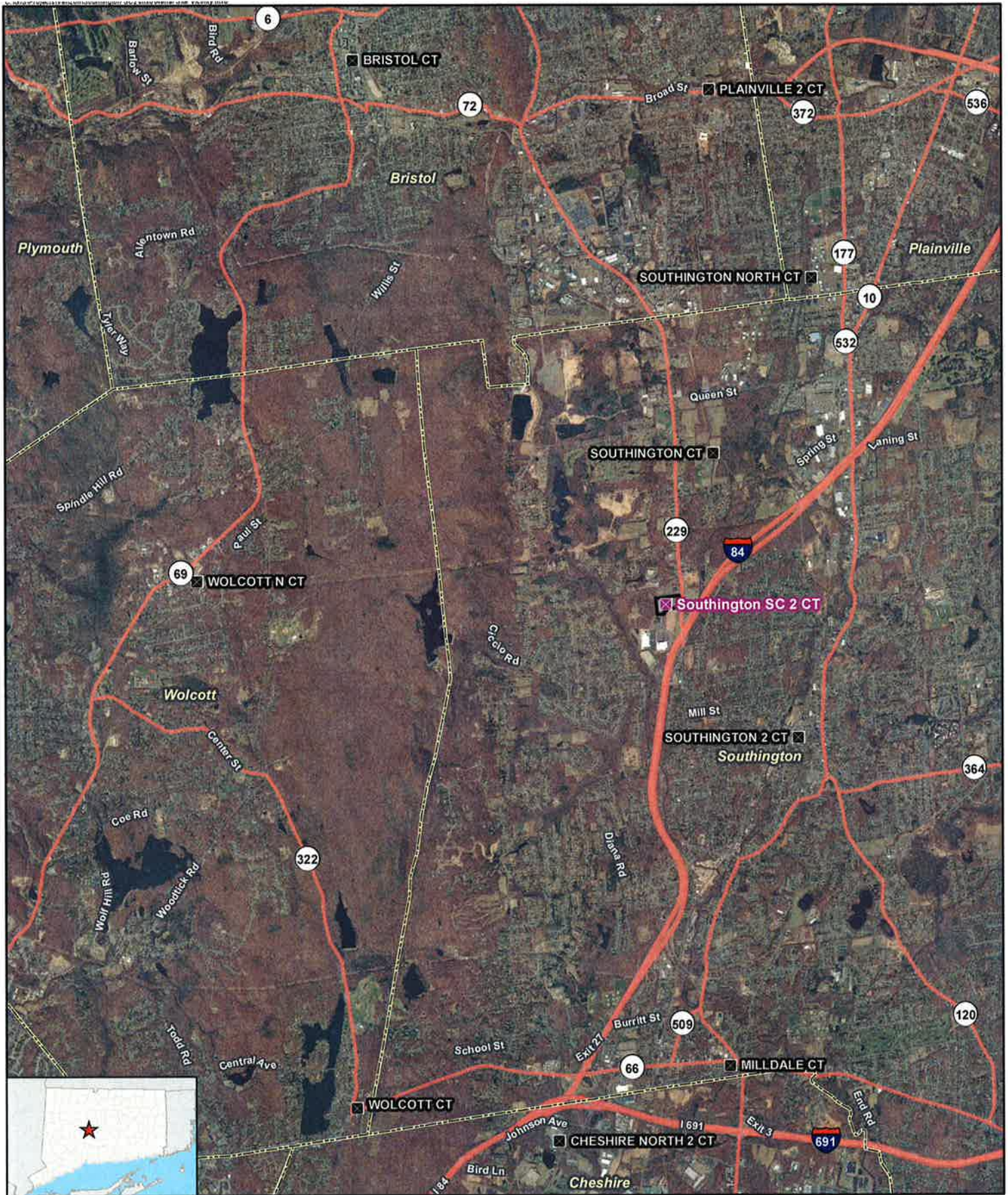
Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a five (5)-foot stub tower/mast on the roof of the building at the Property to support a two-foot tall small cell antenna will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON  
WIRELESS

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

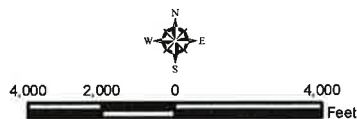
# **ATTACHMENT 1**



**Legend**

- Surrounding Verizon Wireless Facilities
- ✕ Proposed Verizon Wireless Facility
- Subject Property
- Municipal Boundary

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



**Site Vicinity**



Proposed Wireless  
 Telecommunications Facility  
 Southington SC 2 CT  
 200 Executive Boulevard  
 Southington, Connecticut





Approximate Location of Existing Telco Room on Ground Level

Proposed Verizon Wireless Antenna Mounted to Proposed Pipe Mast

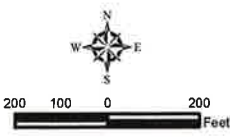
Proposed Verizon Wireless Power for Equipment Cabinet (from existing breaker panel)

- Legend**
- Proposed Facility Layout
  - Host Property

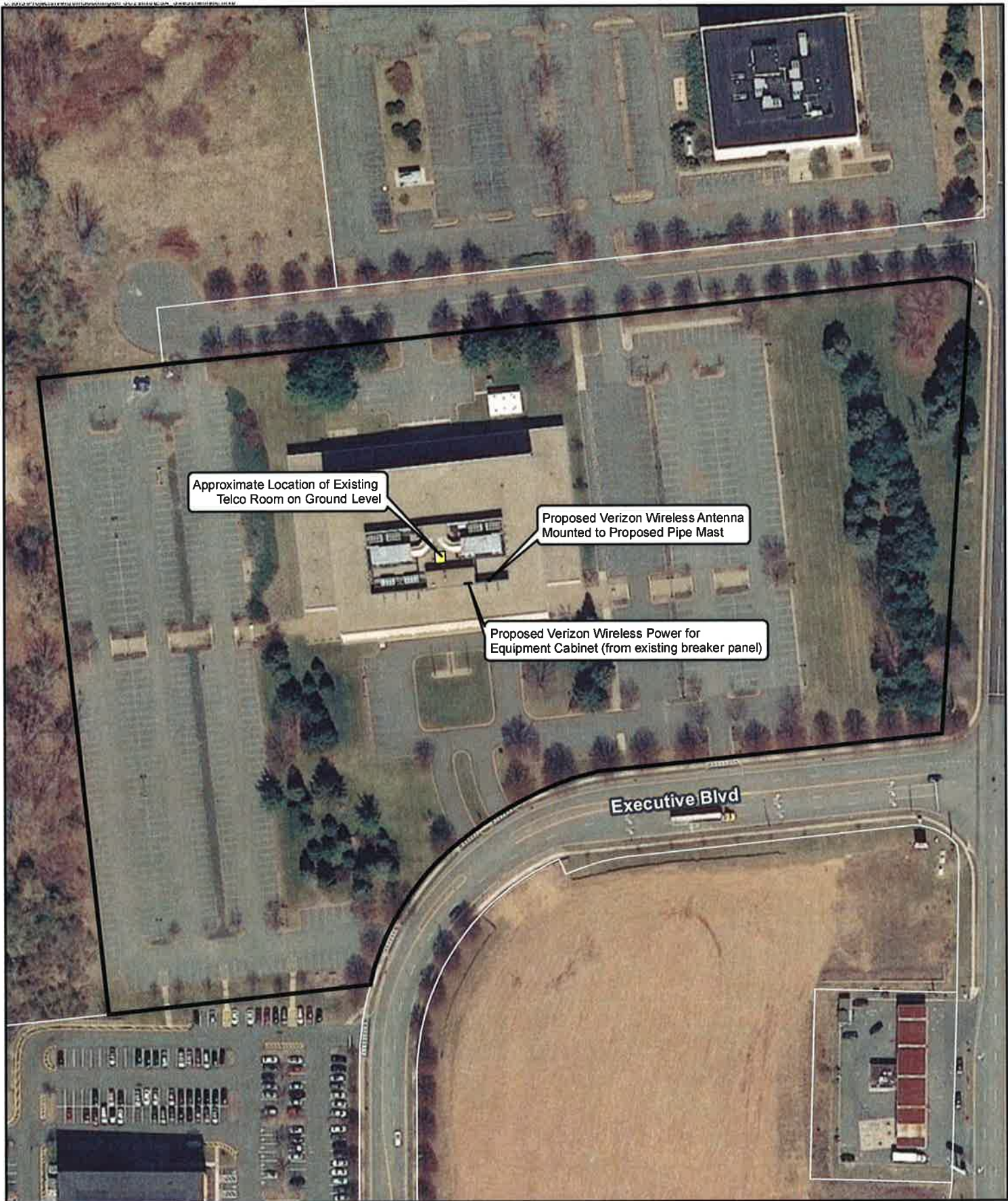
**Site Schematic**

Proposed Wireless Telecommunications Facility  
 Southington SC 2 CT  
 200 Executive Boulevard  
 Southington, Connecticut

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



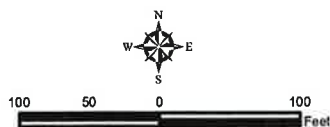




**Legend**

- Proposed Facility Layout
- Host Property

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



**Site Schematic**

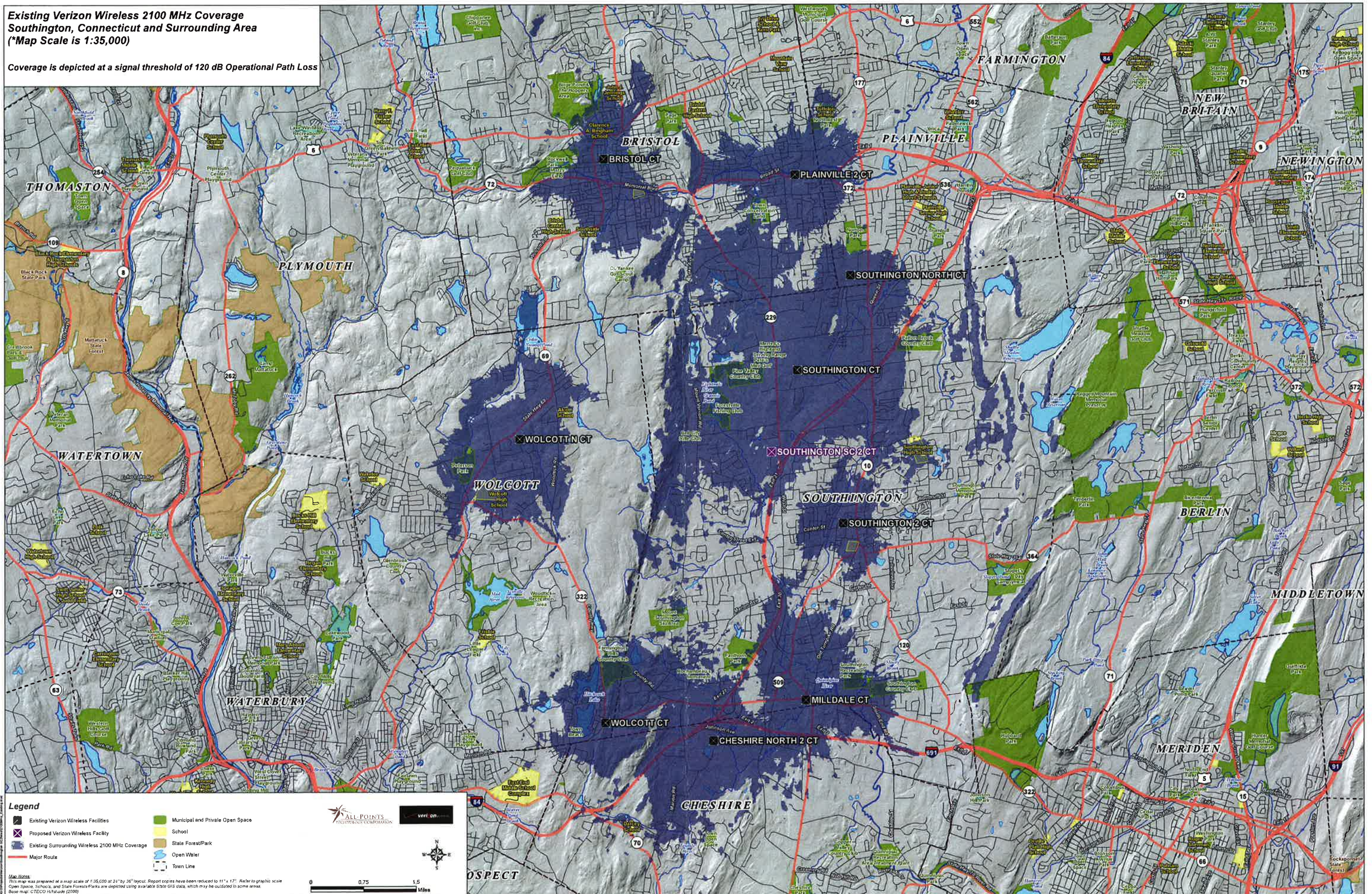
Proposed Wireless  
 Telecommunications Facility  
 Southington SC 2 CT  
 200 Executive Boulevard  
 Southington, Connecticut



# **ATTACHMENT 2**

**Existing Verizon Wireless 2100 MHz Coverage  
Southington, Connecticut and Surrounding Area  
(\*Map Scale is 1:35,000)**

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



**Legend**

- Existing Verizon Wireless Facilities
- Proposed Verizon Wireless Facility
- Existing Surrounding Wireless 2100 MHz Coverage
- Major Route
- Municipal and Private Open Space
- School
- State Forest/Park
- Open Water
- Town Line

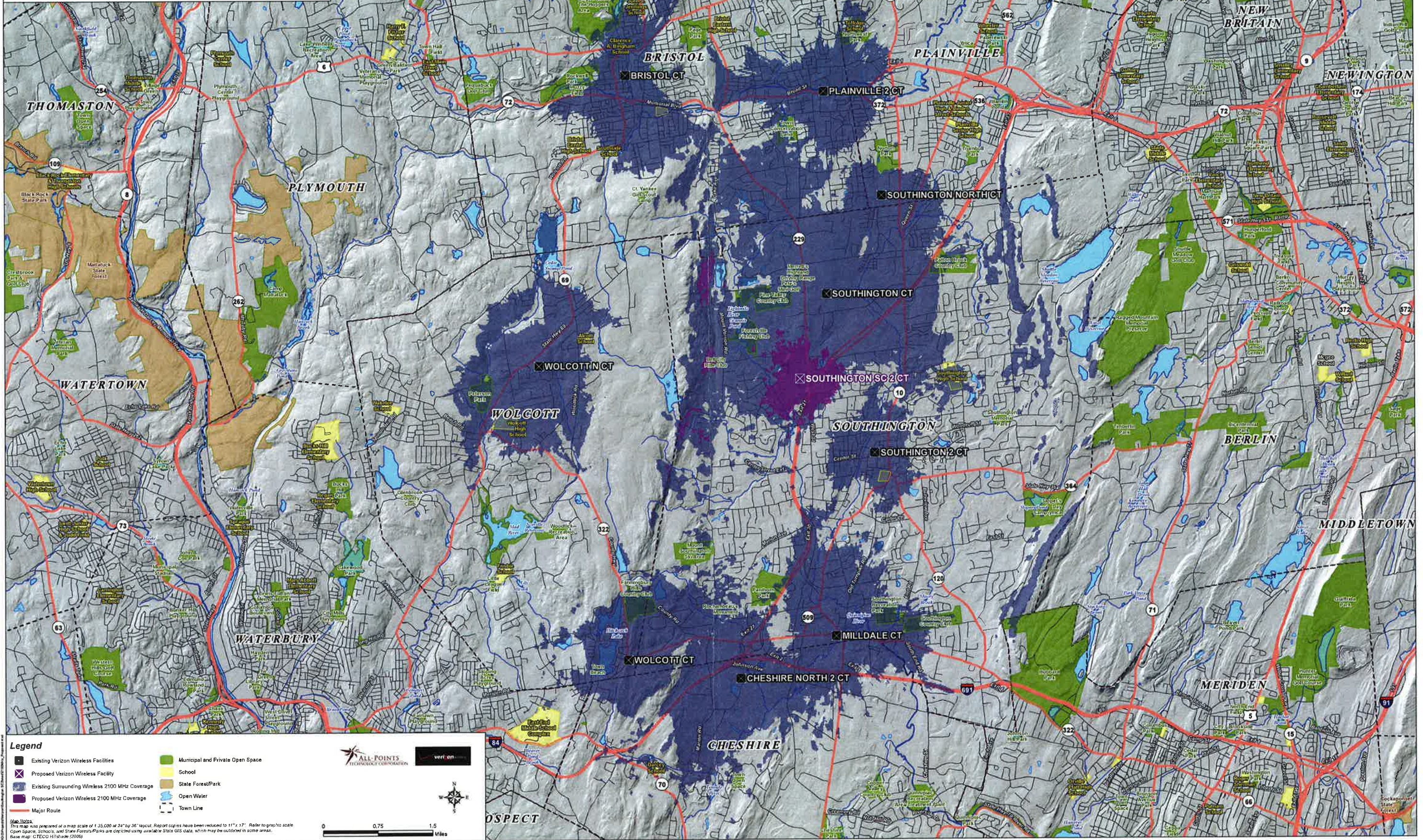
**Map Notes:**  
This map was prepared at a map scale of 1:35,000 at 24" by 36" layout. Report covers have been reduced to 11" x 17". Refer to graphic scale. Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas. Base map: CTECO Hi-Reside (2009)

**Scale:** 0 0.75 1.5 Miles

**Logos:** ALL POINTS ENGINEERING CORPORATION, verizon

**Proposed Verizon Wireless 2100 MHz Coverage  
 Southington, Connecticut and Surrounding Area  
 (\*Map Scale is 1:35,000)**

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



**Legend**

- Existing Verizon Wireless Facilities
- Proposed Verizon Wireless Facility
- Existing Surrounding Wireless 2100 MHz Coverage
- Proposed Verizon Wireless 2100 MHz Coverage
- Major Route
- Municipal and Private Open Space
- School
- State Forest/Park
- Open Water
- Town Line

**Scale:** 0 0.75 1.5 Miles

**Map Notes:**  
 This map was prepared at a map scale of 1:35,000 at 24" by 36" layout. Report copies have been reduced to 11" by 17". Refer to graphic scale.  
 Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.  
 Base map: CTECO H/1/04/06

**ALL-POINTS  
 TECHNOLOGY CORPORATION**

# **ATTACHMENT 3**

# Cellco Partnership



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

## WIRELESS COMMUNICATIONS FACILITY

SOUTHINGTON SC2

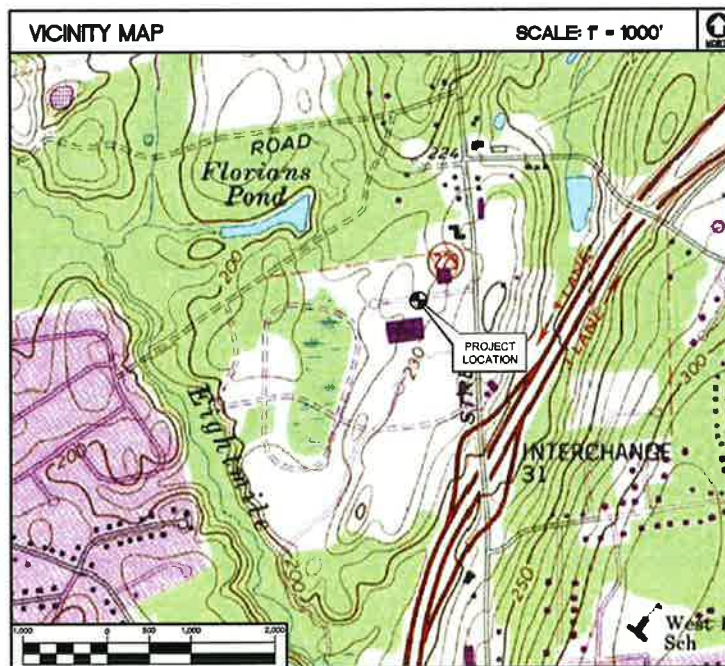
200 EXECUTIVE BOULEVARD

SOUTHINGTON, CT 06489

SITE DIRECTIONS	
<b>FROM:</b> 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	<b>TO:</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489
1. Head north on E River Dr toward Darlin Street	0.3 mi
2. Turn left to stay on E River Dr	354 ft
3. Take first left onto Connecticut Blvd.	0.2 mi
4. Take left onto the Route 84 W ramp to Hartford/Route 91	482 ft
5. Merge onto I-84	78.3 mi
6. Take exit 31 for Connecticut 229/West Street	0.1 mi
7. Turn right onto CT-229 N (signs for Connecticut 229 N)	0.1 mi
8. Take 1st left onto Executive Blvd. S (Destination will be on the right).	0.1 mi

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

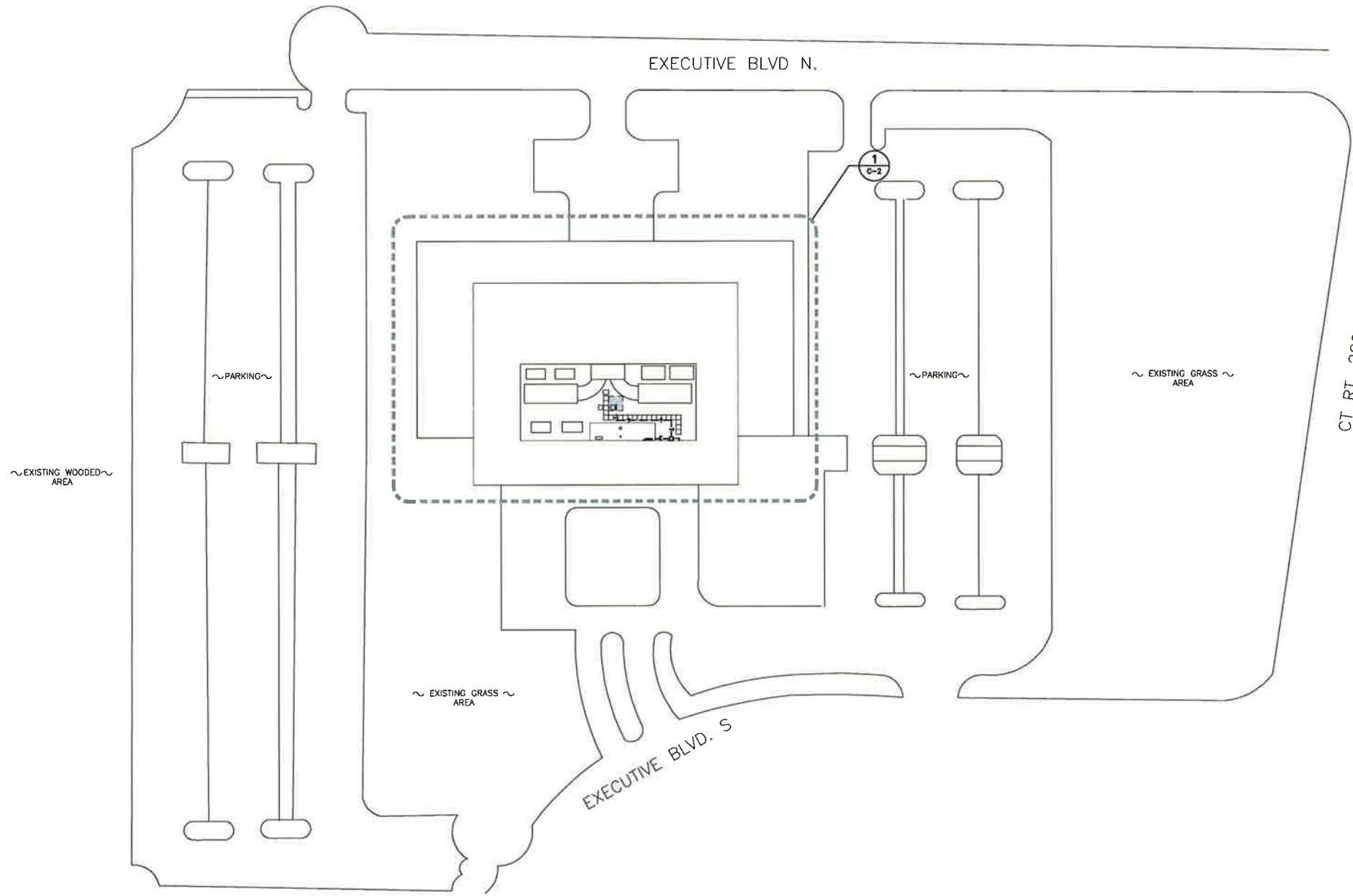
PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A PROPOSED CELCO PARTNERSHIP EQUIPMENT CABINET MOUNTED TO EXISTING SCREEN WALL FRAMING ATOP HIGH ROOF LEVEL OF SUBJECT BUILDING.
2. A TOTAL OF ONE (1) OMNI DIRECTIONAL ANTENNA IS PROPOSED TO BE MOUNTED TO THE EXISTING SCREEN WALL FRAMING ATOP HIGH ROOF LEVEL OF SUBJECT BUILDING, CENTERLINE ELEVATION OF ±77'-9" A.G.L.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED ALONG THE ROOF TO THE PROPOSED EQUIPMENT CABINET FROM AN EXISTING UTILITY BACKBOARD LOCATED WITHIN EXISTING ELECTRICAL PENTHOUSE.
4. FINAL DESIGN FOR ANTENNA MOUNT SHALL BE INCLUDED IN THE D&M PLANS.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.



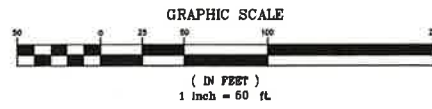
PROJECT SUMMARY	
SITE NAME:	SOUTHINGTON SC2
SITE ADDRESS:	200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELCO PARTNERSHIP (860) 803-8219
SITE COORDINATES:	LATITUDE: 41°-36'-57"N LONGITUDE: 72°-54'-04"W GROUND ELEVATION: ±221'AMSL  COORDINATES & GROUND ELEVATION ARE REFERENCED FROM "TERRAIN NAVIGATOR" TOPOGRAPHY SOFTWARE.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	SITE LOCATION PLAN	0
C-2	ROOF PLAN, ELEVATION & ANTENNA MOUNTING CONFIGURATION	0

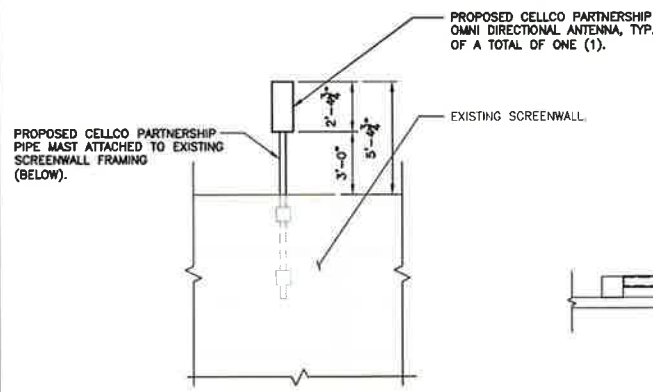
 Cellco Partnership d.b.a. Verizon Wireless	 CENTEK engineering (203) 488-0580 (203) 488-6327 Fax 63-2 North Branford Road Branford, CT 06405 www.CentekEng.com	Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY <b>SOUTHINGTON SC2</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489	DATE: 10/29/14 SCALE: AS NOTED JOB NO. 14214.000	TITLE SHEET	<b>T-1</b> Sheet No. 1 of 3



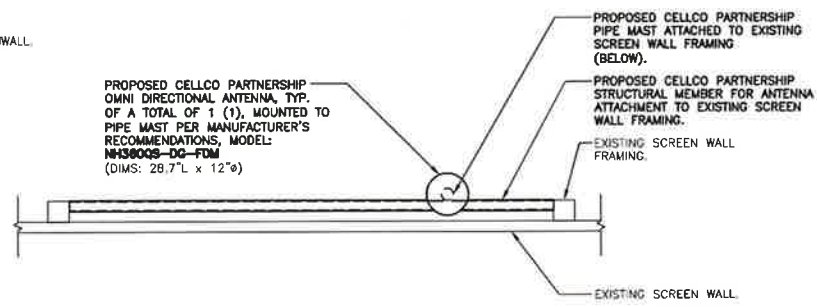
**1**  
C-1 **SITE LOCATION PLAN**  
SCALE: 1" = 50'



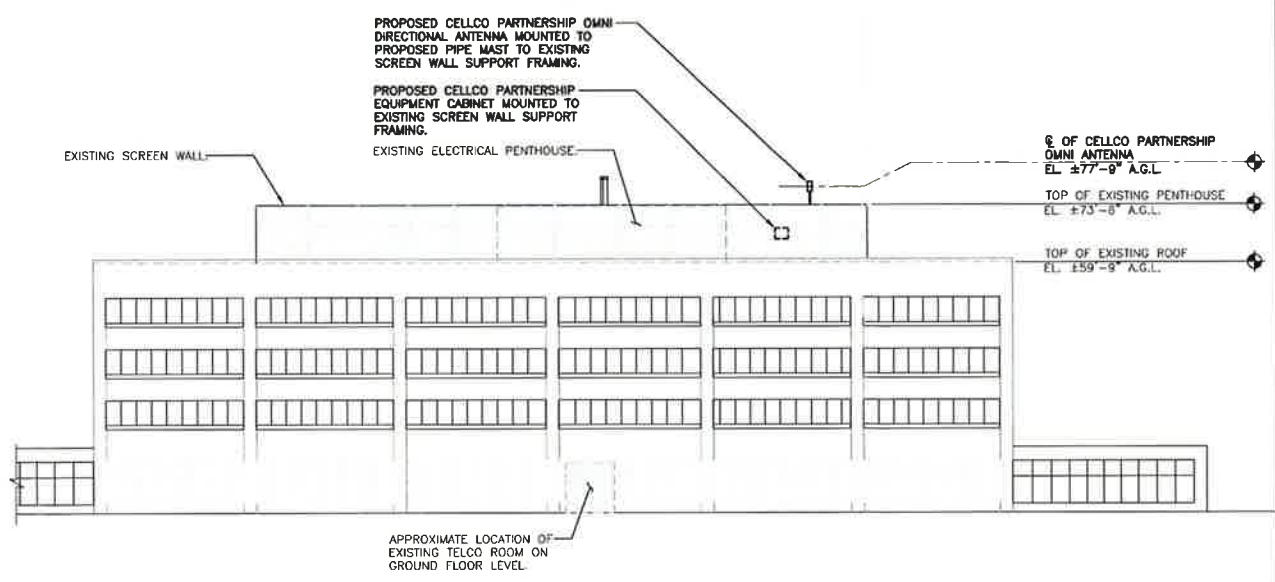
<b>Cellco Partnership d/b/a Verizon Wireless</b> WIRELESS COMMUNICATIONS FACILITY <b>SOUTHINGTON SC2</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489		<b>CENTEK engineering</b> <small>Committed to Excellence</small> (203) 498-0580 (203) 498-6587 Fax 65-2 North Branford Road Branford, CT 06405 www.CentekEng.com		Cellco Partnership d.b.a. Verizon Wireless		PROFESSIONAL ENGINEER SEAL
DATE:	10/29/14	ISSUED FOR CSC-CURT REVIEW	DATE	10/21/14	DATE	10/21/14
SCALE:	AS NOTED	ISSUED FOR CSC-CURT REVIEW	DATE	10/21/14	DATE	10/21/14
JOB NO.	14214.000	ISSUED FOR CSC-CURT REVIEW	DATE	10/21/14	DATE	10/21/14
SITE LOCATION PLAN		SHEET NO. 2 OF 3		SHEET NO. 2 OF 3		SHEET NO. 2 OF 3



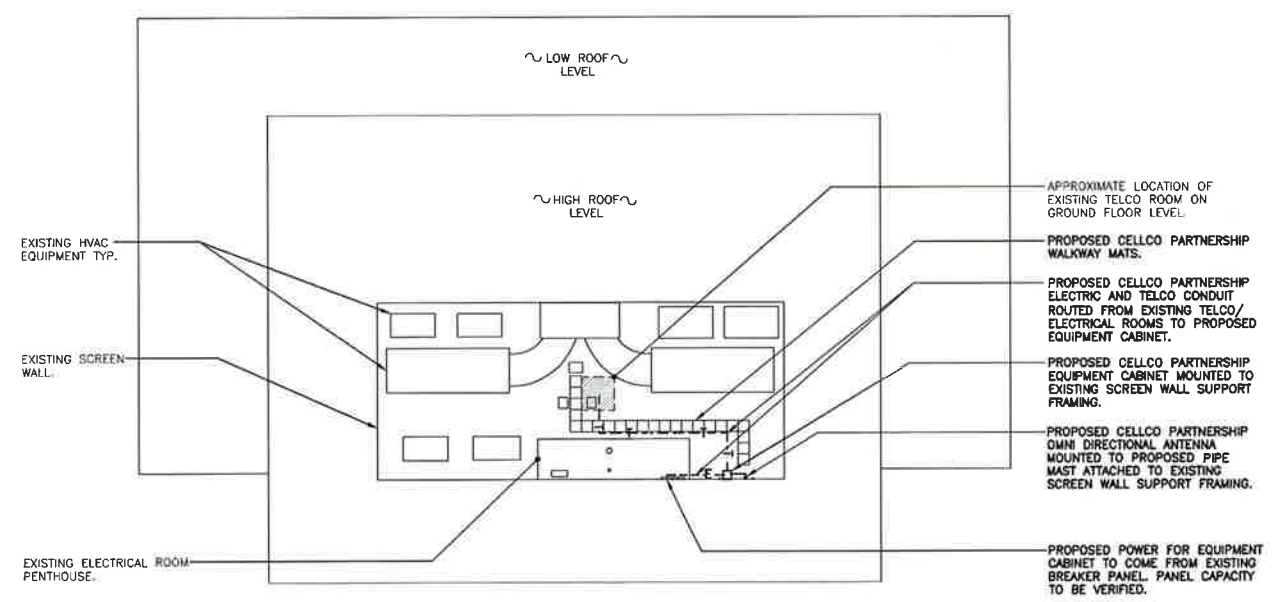
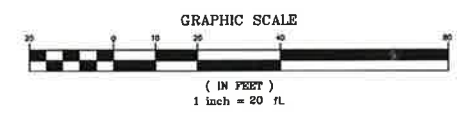
**4 ANTENNA MOUNTING SECTION**  
C-2 NOT TO SCALE



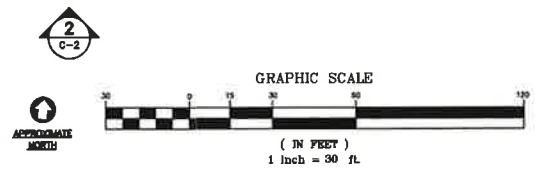
**3 ANTENNA MOUNTING CONFIGURATION PLAN VIEW**  
C-2 NOT TO SCALE



**2 NORTH ELEVATION**  
C-2 SCALE: 1" = 20'



**1 ROOF PLAN**  
C-2 SCALE: 1" = 30'



PROFESSIONAL ENGINEER SEAL	DATE	10/29/14	ISSUED FOR	CSE-CLIENT REVIEW
	DATE	10/29/14	ISSUED BY	CHYO BI DESCRIPTION
	REV.	0		
<p><b>Cellco Partnership</b> d.b.a. Verizon Wireless</p>				
<p><b>CENTEK engineering</b> Continued on Solutions™</p> <p>(203) 489-0580 (203) 489-8557 Fax 63-2 North Branford Road Branford, CT 06405 www.CentekEng.com</p>				
<p><b>Cellco Partnership d/b/a Verizon Wireless</b> WIRELESS COMMUNICATIONS FACILITY</p> <p><b>SOUTHINGTON SC2</b></p> <p>200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489</p>				
<p>DATE: 10/29/14 SCALE: AS NOTED JOB NO. 14214.000</p>				
<p><b>ROOF PLAN ELEVATION &amp; ANTENNA CONFIG.</b></p>				
<p><b>C-2</b></p>				
<p>Sheet No. 3 of 3</p>				



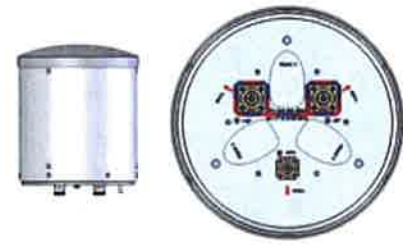
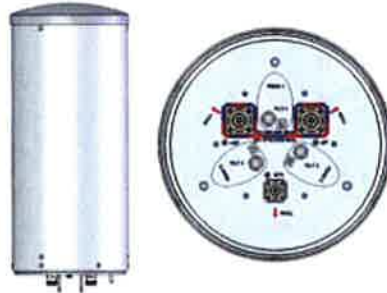
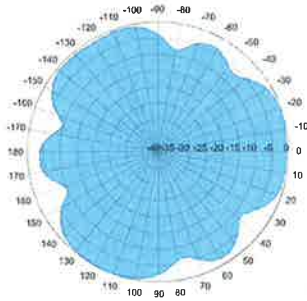
# **ATTACHMENT 4**

Metro Cell Antennas with Internal Diplexer and GPS Antenna

Dualband Quasi-Omni (360°), Metro Cell Antenna

NH360QS-DG-F0M

NH360QT-DG-F0



ELECTRICAL SPECIFICATIONS

Operating Frequency Range	698 - 896 and 1710 - 2170 MHz					698 - 896 and 1710 - 2170 MHz				
	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Frequency Bands, MHz	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Gain, dBi	4.3	5.3	8.0	8.1	8.5	1.3	2.3	4.0	4.2	4.5
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360	360	360
Beamwidth, Vertical, degrees	30.0	24.0	16.0	15.0	14.0	60.0	55.0	32.5	30.0	28.5
USLS, dB	12	12	14	13	13	-	-	14	12	11
Beam Tilt, degrees	0	0	0-16	0-16	0-16	0	0	0	0	0
Isolation, dB	25	25	25	25	25	25	25	25	25	25
VSWR (Return Loss, dB)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	250	250	250	250	250	250	250

MECHANICAL SPECIFICATIONS

Connector Interface	7 - 16 DIN Female	7 - 16 DIN Female
Connector Quantity, Location	2, Bottom	2, Bottom
GPS Connector Interface	4.1/9.5 DIN Female	4.1/9.5 DIN Female
GPS Connector Quantity, Location	1, Bottom	1, Bottom
Length, mm (inch)	730 (28.7)	360 (14.2)
Outer Diameter, mm (inch)	305 (12.0)	305 (12.0)
Wind Speed, maximum, km/h (mph)	241.4 (150)	241.4 (150)
Net Weight, kg (lb)	20.0 (44.1)	12.0 (26.5)

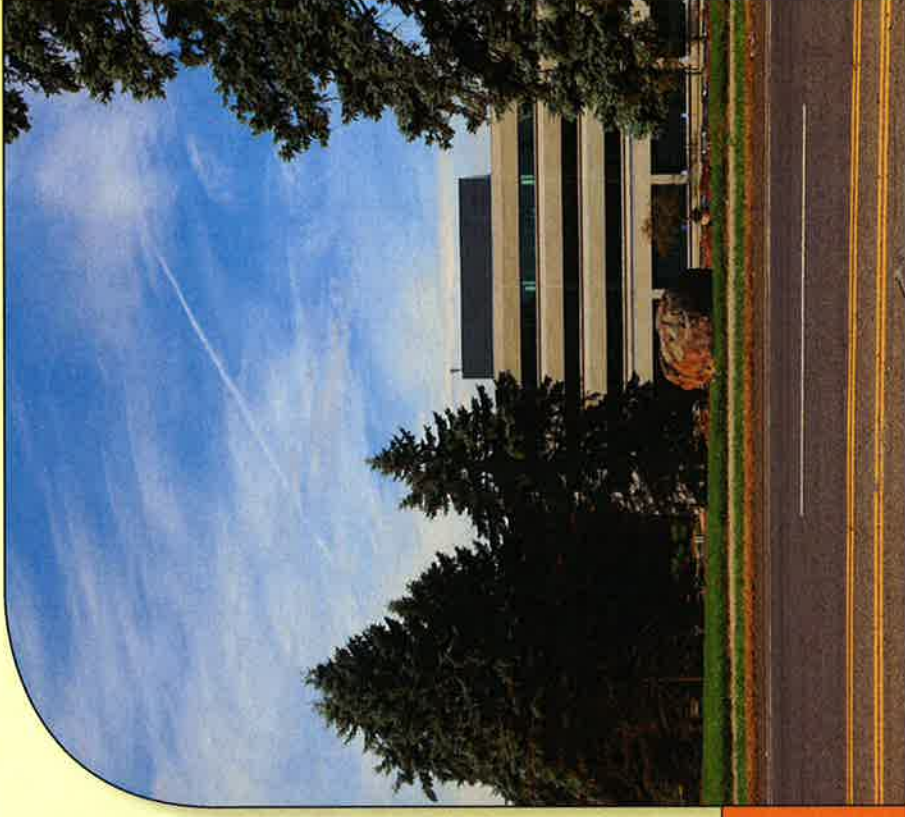
AVAILABILITY

Expected Ready Date for Manufacturing	March 2014	June 2014
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# **ATTACHMENT 5**

# Limited Visibility Analysis and Photo-Simulations

SOUTHINGTON SC2  
200 EXECUTIVE BOULEVARD  
SOUTHINGTON, CT



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

Prepared for Verizon Wireless



# LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installations of a small cell wireless telecommunications Facility at 200 Executive Boulevard in Southington, Connecticut ("host property").

## Project Setting

The host property is located west of Interstate 84 and State Highway 229 (aka West Street) in a commercial corridor and is currently developed with a four-story commercial office building, parking and landscaped areas. The proposed Facility would include the installation of a single 28-inch omni-directional antenna mounted on an approximate four-foot tall pipe mast to be affixed to an existing screening wall on the building's roof. Associated equipment cabinet and electrical and telco cables would be flush-mounted to the roof behind the screening wall.

## Methodology

On October 20, 2014, APT personnel conducted a field reconnaissance to determine where the existing building is visible and to photo-document existing conditions. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens, with lens set to 50 mm for all but one of the photographs. Photograph 2 was taken using a 24 mm focal length in order to provide a greater depth of field for presentation in this report. Focal lengths ranging from 24 mm to 50 mm approximate views similar to that achieved by the human eye. However, two key aspects of an image can be directly affected by the specific focal length that is selected: field of view and relation of sizes between objects in the frame. A 24 mm focal length provides a wider field of view, representative of the extent the human eyes may see (including some peripheral vision), but the relation of sizes between objects at the edges of the photos can become minimally skewed. A 50 mm focal length has a narrower field of view than the human eye but the relation of sizes between objects is represented similar to what the human eye might perceive.

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

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

When taking photographs for these analyses, APT prefers a focal length of 50 mm; however there are times when wider views (requiring the use of the 24 mm lens setting, in this case) can better reflect “real world” viewing conditions by providing greater context to the scene. Regardless of the lens setting, the scale of the subject in the photograph and corresponding simulation remains proportional to its surroundings.

Three-dimensional computer models were developed for the building and small cell components of the proposed installations from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format<sup>2</sup>. A photolog map and copies of the existing conditions and photo-simulations are attached.

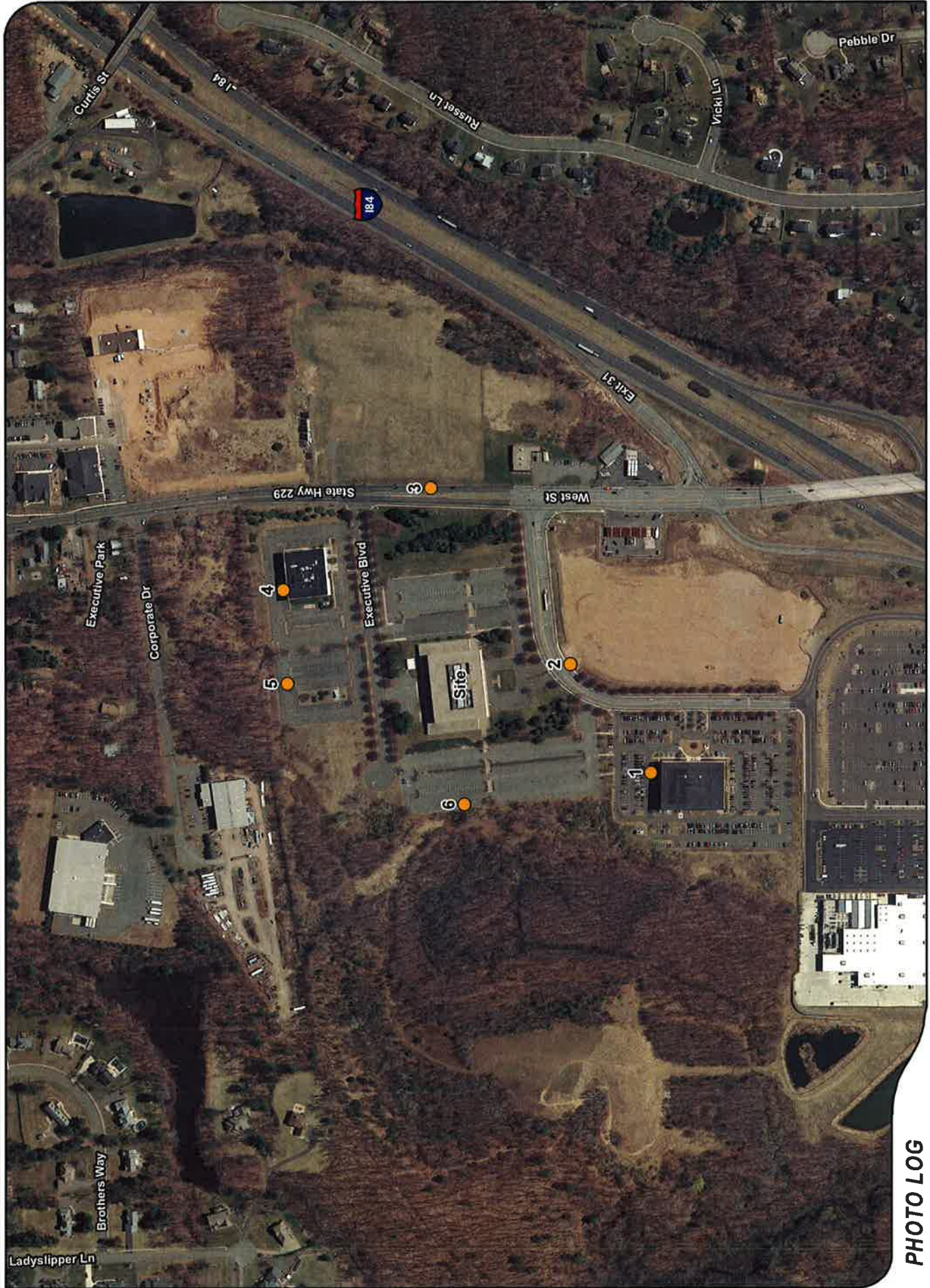
## Conclusions

The visibility of the proposed installation would be limited to locations within approximately 800 feet or less of the building from locations south, east and northeast of the host property. The combination of the small cell’s relatively low profile above the existing screening wall and its location on the southeast side of the building, no views would be achieved from locations to the west and northwest. Further, mechanical infrastructure and exhaust stacks currently eclipse the screening wall such that the addition of the small cell would not substantially change existing conditions. Based on the results of this assessment, it is our opinion that the proposed installations of Verizon Wireless equipment at the host property would have little to no adverse impact on existing views.

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

## **ATTACHMENTS**



# PHOTO LOG

## Legend

- Photo Location







**EXISTING**

PHOTO

1

LOCATION

ADJACENT TO HOST PROPERTY

ORIENTATION

**NORTHEAST**

DISTANCE TO SITE

**+/- 0.13 MILE**





**PROPOSED**

PHOTO

1

LOCATION

**ADJACENT TO HOST PROPERTY**

ORIENTATION

**NORTHEAST**

DISTANCE TO SITE

**+/- 0.13 MILE**





**PROPOSED**

PHOTO

1

LOCATION

**ADJACENT TO HOST PROPERTY**

ORIENTATION

**NORTHEAST**

DISTANCE TO SITE

**+/- 0.13 MILE**



**ALL-POINTS  
TECHNOLOGY CORPORATION**





**EXISTING**

PHOTO

2

LOCATION

**EXECUTIVE BOULEVARD SOUTH (24mm Focal Length)**

ORIENTATION

**NORTH**

DISTANCE TO SITE

**+/- 318 FEET**





**PROPOSED**

PHOTO

2

LOCATION

**EXECUTIVE BOULEVARD SOUTH (24mm Focal Length)**

ORIENTATION

**NORTH**

DISTANCE TO SITE

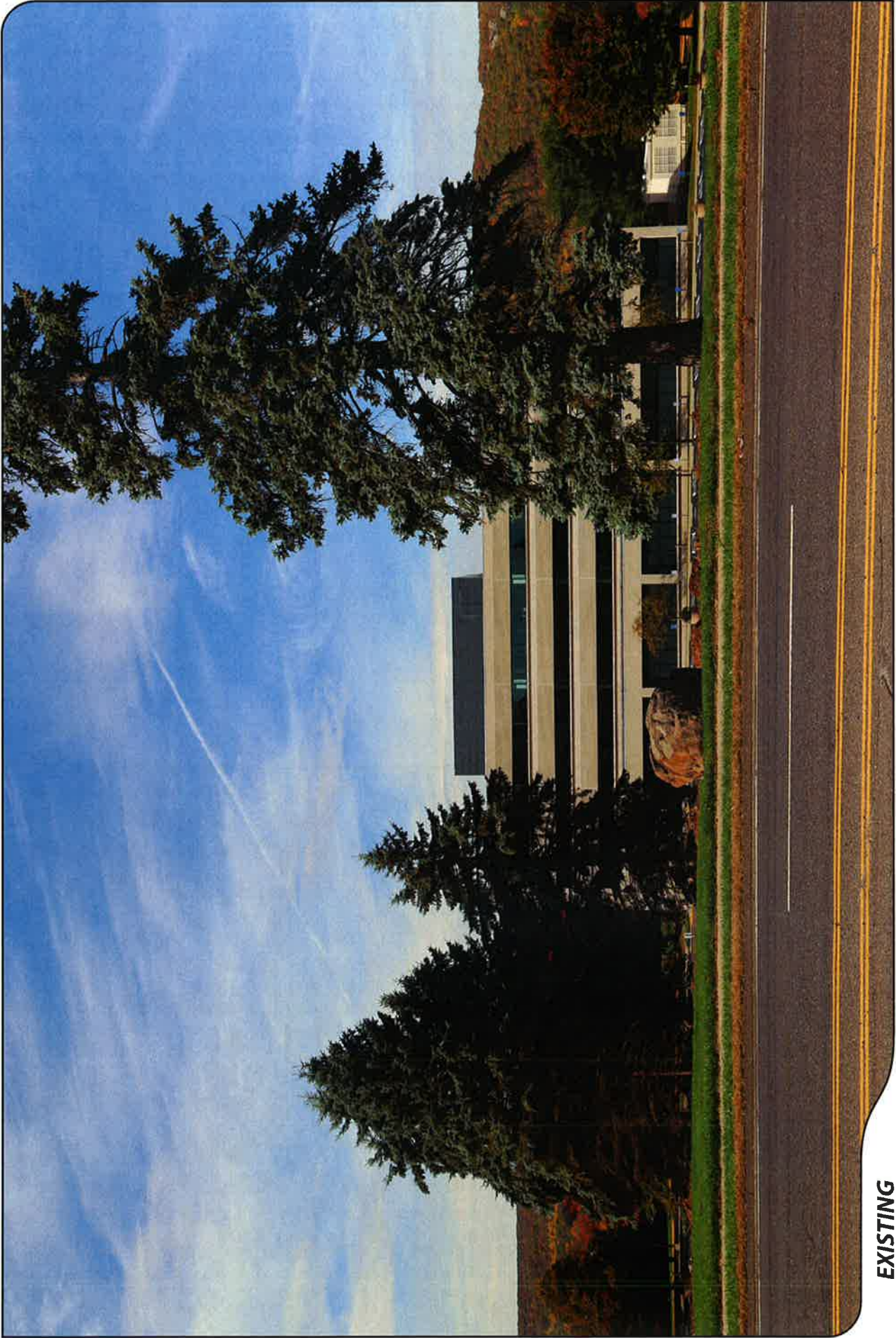
**+/- 318 FEET**



**PROPOSED**

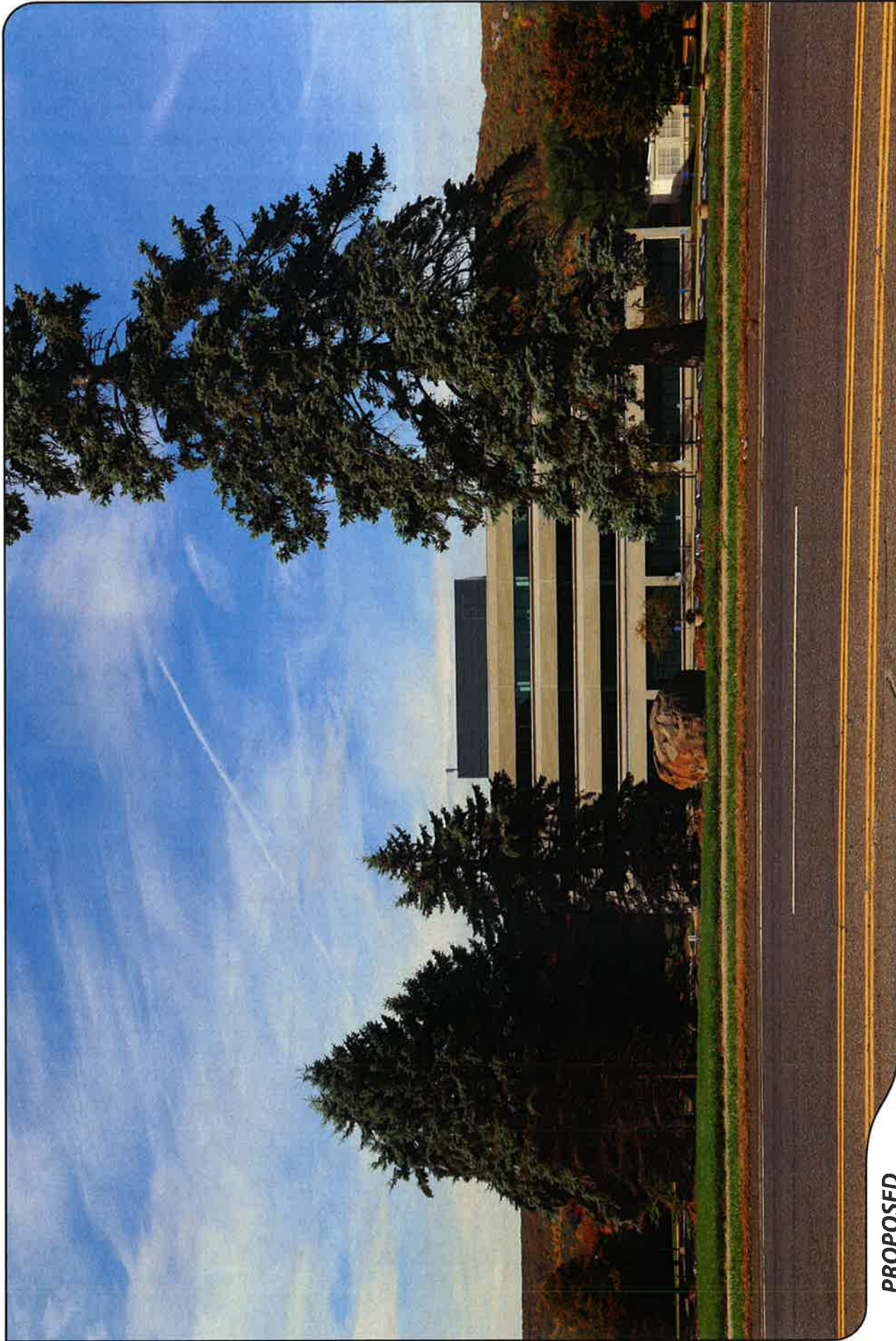
PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	EXECUTIVE BOULEVARD SOUTH (24mm Focal Length)	NORTH	+/- 318 FEET





**EXISTING**

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	WEST STREET	WEST	+/- 0.11 MILE



**PROPOSED**

PHOTO

3

LOCATION

**WEST STREET**

ORIENTATION

**WEST**

DISTANCE TO SITE

**+/- 0.11 MILE**







**PROPOSED**

PHOTO

3

LOCATION

**WEST STREET**

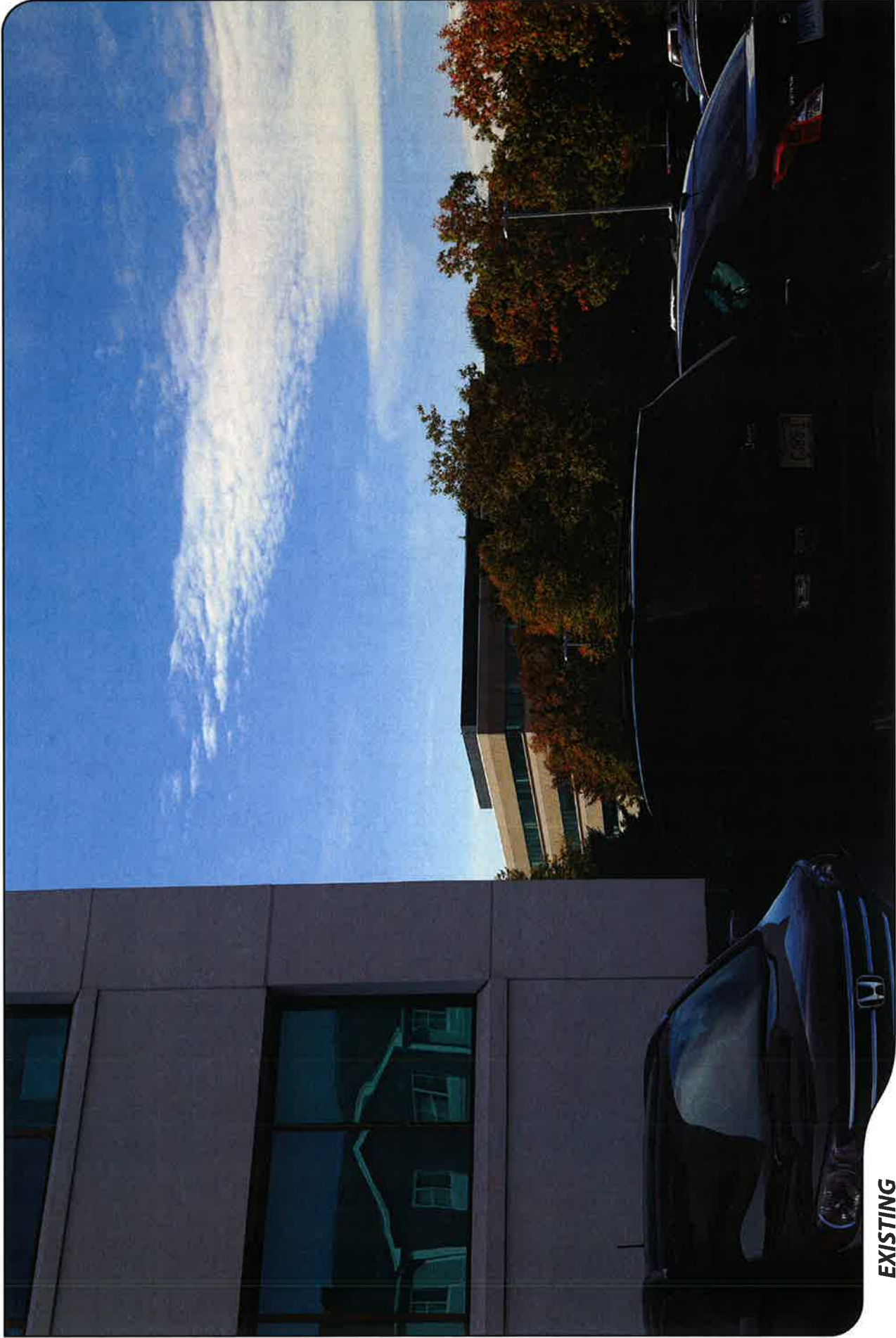
ORIENTATION

**WEST**

DISTANCE TO SITE

**+/- 0.11 MILE**





**EXISTING**

PHOTO

4

LOCATION

**ADJACENT TO HOST PROPERTY**

ORIENTATION

**SOUTHWEST**

DISTANCE TO SITE

**+/- 0.12 MILE**





**PROPOSED**

PHOTO

4

LOCATION

ADJACENT TO HOST PROPERTY

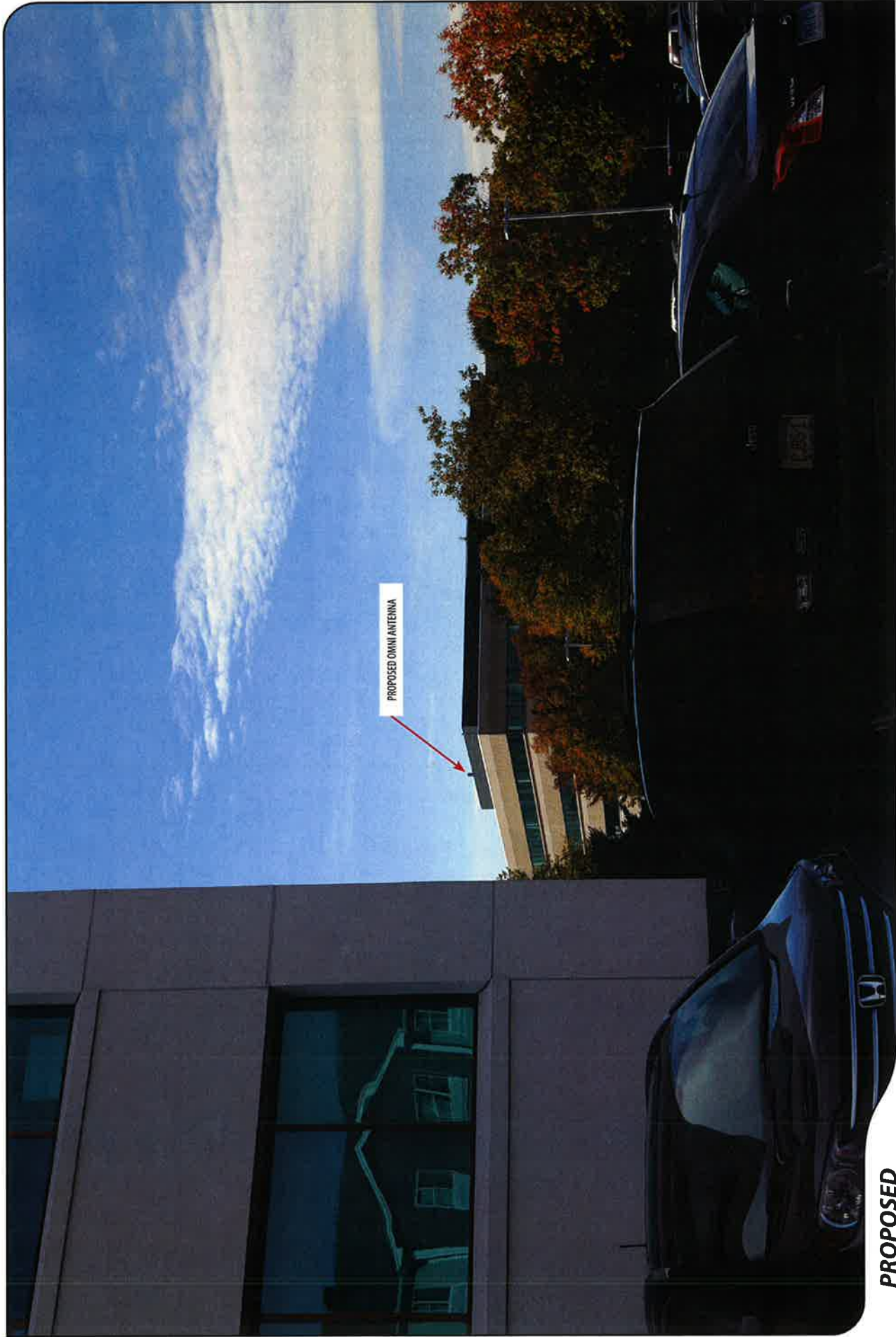
ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 0.12 MILE





**PROPOSED**

PHOTO

4

LOCATION

**ADJACENT TO HOST PROPERTY**

ORIENTATION

**SOUTHWEST**

DISTANCE TO SITE

**+/- 0.12 MILE**





**EXISTING**

PHOTO

5

LOCATION

ADJACENT TO HOST PROPERTY

ORIENTATION

**SOUTH**

DISTANCE TO SITE

**+/- 0.11 MILE**

**NOT VISIBLE FROM THIS LOCATION**





**EXISTING**

PHOTO

6

LOCATION

**HOST PROPERTY**

ORIENTATION

**EAST**

DISTANCE TO SITE

**+/- 460 FEET**

**NOT VISIBLE FROM THIS LOCATION**



# **ATTACHMENT 6**

General Power Density

Site Name: Southington SC 2, CT  
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
VZW AWS	2145	1	1750	1750	77.9	0.1037	1.0	10.37%

**Total Percentage of Maximum Permissible Exposure**

10.37%

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

MHz = Megahertz

mW/cm<sup>2</sup> = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



# **ATTACHMENT 7**

SOUTHINGTON\_SC\_CT\_2.txt  
\*\*\*\*\*  
\* Federal Airways & Airspace \*  
\* Summary Report: New Construction \*  
\* Antenna Structure \*  
\*\*\*\*\*

Airspace User: Mark Brauer

File: SOUTHINGTON\_SC\_CT\_2

Location: Bristol, CT  
Distance: 5 Statute Miles  
Direction: 335° (true bearing)

Latitude: 41°-36'-56.18" Longitude: 72°-54'-4.72"

SITE ELEVATION AMSL.....210 ft.  
STRUCTURE HEIGHT..... 79 ft.  
OVERALL HEIGHT AMSL.....289 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)  
FAR 77.9(b): NNR (DNE Notice Slope)  
FAR 77.9(c): NNR (Not a Traverse Way)  
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for 4B8  
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for N41  
FAR 77.9(d): NNR (Off Airport Construction)

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

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

OBSTRUCTION STANDARDS

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

VFR TRAFFIC PATTERN AIRSPACE FOR: 4B8: ROBERTSON FIELD

Type: A RD: 26904.84 RE: 200  
FAR 77.17(a)(1): DNE  
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.  
VFR Horizontal Surface: DNE  
VFR Conical Surface: DNE  
VFR Approach Slope: DNE  
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: N41: WATERBURY

Type: A RD: 39857.63 RE: 853.4  
FAR 77.17(a)(1): DNE  
FAR 77.17(a)(2): Does Not Apply.  
VFR Horizontal Surface: DNE  
VFR Conical Surface: DNE

SOUTHINGTON\_SC\_CT\_2.txt

VFR Approach Slope: DNE  
VFR Transitional Slope: DNE

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

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)  
FAR 77.17(a)(4) MOCA Altitude Enroute Criteria  
The Maximum Height Permitted is 1700 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
CT60 HEL ULTIMATE No Impact to Private Landing Facility Structure is beyond notice limit by 16935 feet.	7.3	3.61	+36	
CT03 HEL BRISTOL HOSPITAL No Impact to Private Landing Facility Structure 0 ft below heliport.	336.58	3.94	-117	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	ST TYPE	AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE
	4B8	CO	Y	A/G	19.05	29152	+29	CT	PALINFIELD	.06
	HFD	VOR/DME	R	114.9	84.4	97200	-560	CT	HARTFORD	-.33
	MAD	VOR/DME	R	110.4	152.53	124003	+69	CT	MADISON	.03
	HVN	VOR/DME	R	109.8	178.04	128808	+283	CT	NEW HAVEN	.13
	BDL	RADAR	ON		26.82	131954	+53	CT	BRADLEY INTL	.02
	BDL	VORTAC	D	109.0	26.01	132011	+129	CT	BRADLEY	.06
	BDR	VOR/DME	R	108.8	200.2	176715	+280	CT	BRIDGEPORT	.09
	PWL	VOR/DME	I	114.3	286.62	199065	-961	NY	PAWLING	-.28
	BAF	VORTAC	R	113.0	14.15	205368	+22	MA	BARNES	.01

CFR Title 47, §1.30000-§1.30004  
AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.  
Movement Method Proof as specified in §73.151(c) is not required.  
Please review 'AM Station Report' for details.

Nearest AM Station: WXCT @ 3922 meters.

Airspace® Summary Version 14.9.372

AIRSPACE® and TERPS® are registered ® trademarks of Federal Airways & Airspace®  
Copyright © 1989 - 2014

10-10-2014

14:04:18

# ATTACHMENT 8

February 27, 2015

*Via Certified Mail, Return Receipt Requested*

Garry Brumback, Town Manager  
Town of Southington  
75 Main Street  
Southington, CT 06489

Re: **Proposed Installation of a “Small Cell” Telecommunications Facility at 200  
Executive Boulevard, Southington, Connecticut**

Dear Mr. Brumback:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new “small cell” telecommunications facility at 200 Executive Boulevard in Southington (the “Property”). The “small cell” will consist of a single canister-type antenna at the top of a small tower/mast structure attached to an existing mechanical equipment screen wall on the roof of the building. Equipment associated with the “small cell” will be located in a small cabinet attached to the inside of the same mechanical equipment screen wall.

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

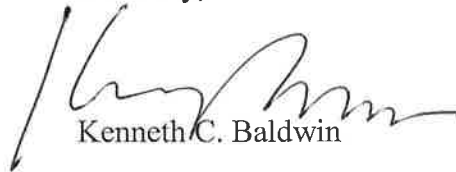
13180788-v1

# Robinson+Cole

Garry Brumback  
February 27, 2015  
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd  
Attachment  
Copy to:  
Sandy M. Carter

February 27, 2015

*Via Certified Mail, Return Receipt Requested*

Mark Sciota, Deputy Town Manager  
Town of Southington  
75 Main Street  
Southington, CT 06489

**Re: Proposed Installation of a “Small Cell” Telecommunications Facility at 200  
Executive Boulevard, Southington, Connecticut**

Dear Mr. Sciota:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new “small cell” telecommunications facility at 200 Executive Boulevard in Southington (the “Property”). The “small cell” will consist of a single canister-type antenna at the top of a small tower/mast structure attached to an existing mechanical equipment screen wall on the roof of the building. Equipment associated with the “small cell” will be located in a small cabinet attached to the inside of the same mechanical equipment screen wall.

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

13180811-v1




# Robinson+Cole

Mark Sciota  
February 27, 2015  
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd  
Attachment  
Copy to:  
Sandy M. Carter

February 27, 2015

*Via Certified Mail, Return Receipt Requested*

Executive Two Hundred, LLC  
785 Sherman Avenue  
Hamden, CT 06514

**Re: Proposed Installation of a “Small Cell” Telecommunications Facility at 200  
Executive Boulevard, Southington, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new “small cell” telecommunications facility at 200 Executive Boulevard in Southington (the “Property”). The “small cell” will consist of a single canister-type antenna at the top of a small tower/mast structure attached to an existing mechanical equipment screen wall on the roof of the building. Equipment associated with the “small cell” will be located in a small cabinet attached to the inside of the same mechanical equipment screen wall.

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

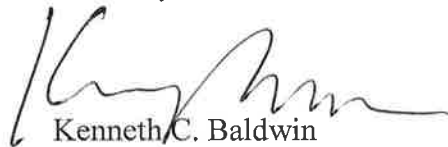
13180762-v1

# Robinson+Cole

Executive Two Hundred, LLC  
February 27, 2015  
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd  
Attachment  
Copy to:  
Sandy M. Carter

# **ATTACHMENT 9**

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

February 27, 2015

*Via Certified Mail, Return Receipt Requested*

«Name\_and\_Address»

Re: **Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a “Small Cell” Telecommunications Facility at 200 Executive Boulevard, Southington, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new “small cell” telecommunications facility at 200 Executive Boulevard in Southington (the “Property”). Cellco intends to install one (1) canister type antenna at the top of a small tower/mast structure attached to an existing mechanical equipment screening wall on the roof of the building. Equipment associated with the facility will also be on the roof of the building. A set of Project Plans and aerial photograph showing the location of Cellco’s proposed small cell are attached for your review.

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council’s process for reviewing the proposed petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

February 27, 2015  
Page 2

Sincerely,

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

Kenneth C. Baldwin

Attachment

Copy to:

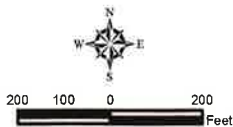
Sandy M. Carter



**Legend**

- Proposed Facility Layout
- Host Property

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



**Site Schematic**

Proposed Wireless  
 Telecommunications Facility  
 Southington SC 2 CT  
 200 Executive Boulevard  
 Southington, Connecticut



# Cellco Partnership

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

## WIRELESS COMMUNICATIONS FACILITY

SOUTHINGTON SC2

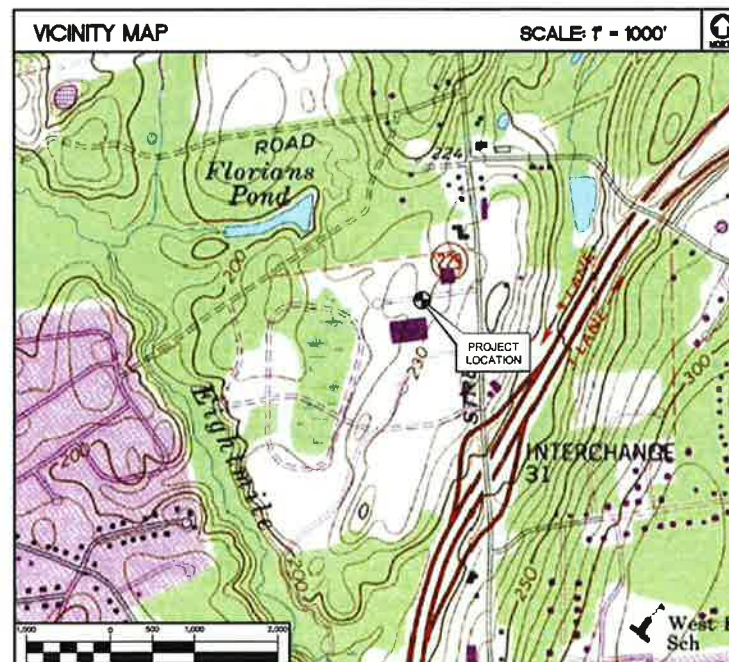
200 EXECUTIVE BOULEVARD

SOUTHINGTON, CT 06489

SITE DIRECTIONS		
<b>FROM:</b>	88 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	<b>TO:</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489
1.	Head northeast on E River Dr toward Darlin Street	0.3 mi
2.	Turn left to stay on E River Dr	354 ft
3.	Take first left onto Connecticut Blvd.	0.2 mi
4.	Take left onto the Route 84 W ramp to Hartford/Route 91	482 ft
5.	Merge onto I-84	18.3 mi
6.	Take exit 31 for Connecticut 229/West Street	0.1 mi
7.	Turn right onto CT-229 N (signs for Connecticut 229 N)	0.1 mi
8.	Take 1st left onto Executive Blvd. S (Destination will be on the right).	0.1 mi

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

PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP EQUIPMENT CABINET MOUNTED TO EXISTING SCREEN WALL FRAMING ATOP HIGH ROOF LEVEL OF SUBJECT BUILDING.
2. A TOTAL OF ONE (1) OMNI DIRECTIONAL ANTENNA IS PROPOSED TO BE MOUNTED TO THE EXISTING SCREEN WALL FRAMING ATOP HIGH ROOF LEVEL OF SUBJECT BUILDING, CENTERLINE ELEVATION OF ±77'-9" A.G.L.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED ALONG THE ROOF TO THE PROPOSED EQUIPMENT CABINET FROM AN EXISTING UTILITY BACKBOARD LOCATED WITHIN EXISTING ELECTRICAL PENTHOUSE.
4. FINAL DESIGN FOR ANTENNA MOUNT SHALL BE INCLUDED IN THE D&M PLANS.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.

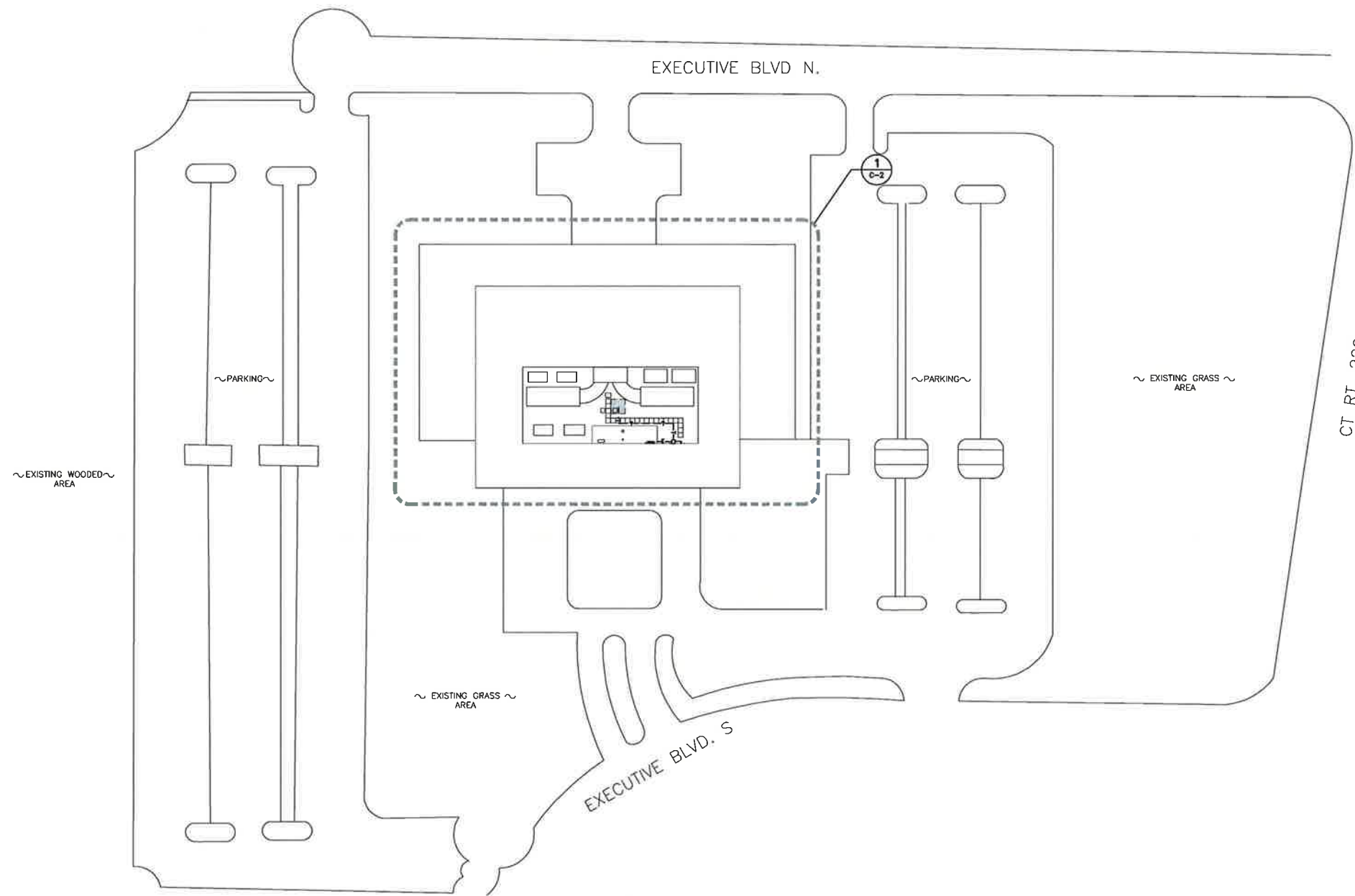


PROJECT SUMMARY	
SITE NAME:	SOUTHINGTON SC2
SITE ADDRESS:	200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELLCO PARTNERSHIP (860) 803-8219
SITE COORDINATES:	LATITUDE: 41°-36'-57"N LONGITUDE: 72°-54'-04"W GROUND ELEVATION: ±221'AMSL COORDINATES & GROUND ELEVATION ARE REFERENCED FROM TERRAIN NAVIGATOR TOPOGRAPHY SOFTWARE.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	SITE LOCATION PLAN	0
C-2	ROOF PLAN, ELEVATION & ANTENNA MOUNTING CONFIGURATION	0

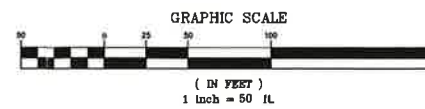
		Cellco Partnership d/b.a. Verizon Wireless	CENTEK engineering (203) 488-0380 (203) 488-8587 Fax 65-2 North Branford Road Branford, CT 06405 www.CentekEng.com	Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY <b>SOUTHINGTON SC2</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489	DATE: 10/29/14 SCALE: AS NOTED JOB NO. 14214.000 TITLE SHEET <b>T-1</b> Sheet No. 1 of 3										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>CHK'D BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10/31/14</td> <td>DAW</td> <td>DAW</td> <td>ISSUED FOR CSE-CLIENT REVIEW</td> </tr> </tbody> </table>						REV.	DATE	BY	CHK'D BY	DESCRIPTION	0	10/31/14	DAW	DAW	ISSUED FOR CSE-CLIENT REVIEW
REV.	DATE	BY	CHK'D BY	DESCRIPTION											
0	10/31/14	DAW	DAW	ISSUED FOR CSE-CLIENT REVIEW											



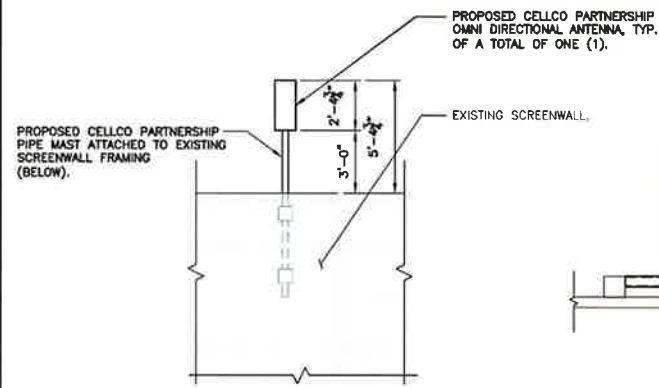


**1**  
C-1 **SITE LOCATION PLAN**  
SCALE: 1" = 50'

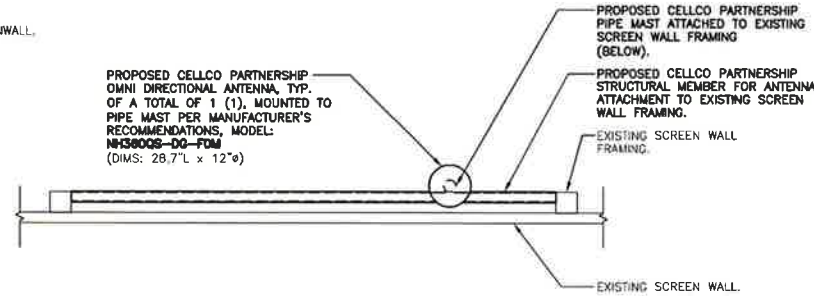
APPROXIMATE  
METERS



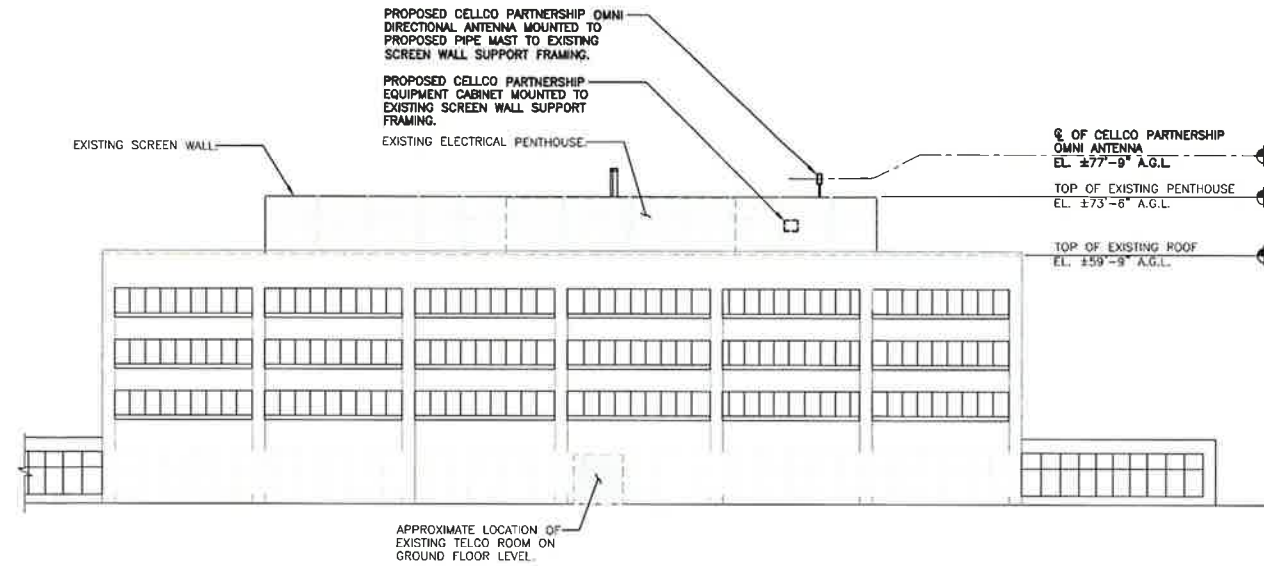
<b>Cellco Partnership d/b/a Verizon Wireless</b> WIRELESS COMMUNICATIONS FACILITY <b>SOUTHINGTON SC2</b> 200 EXECUTIVE BOULEVARD SOUTHINGTON, CT 06489		<b>CENITEK</b> engineering <small>Committed to Excellence</small> (203) 488-0580 (203) 488-6587 Fax 63-2 North Branford Road Branford, CT 06405 www.CenitekEng.com	Cellco Partnership d.b.a. Verizon Wireless	PROFESSIONAL ENGINEER SEAL
DATE: 10/29/14 SCALE: AS NOTED JOB NO. 14214.000	SITE LOCATION PLAN			
<b>C-1</b> Sheet No. 2 of 3		0 10/21/14 DWA DMD ISSUED FOR CSC-CURT REVIEW REV. DATE DRAWN BY CHECK BY DESCRIPTION		



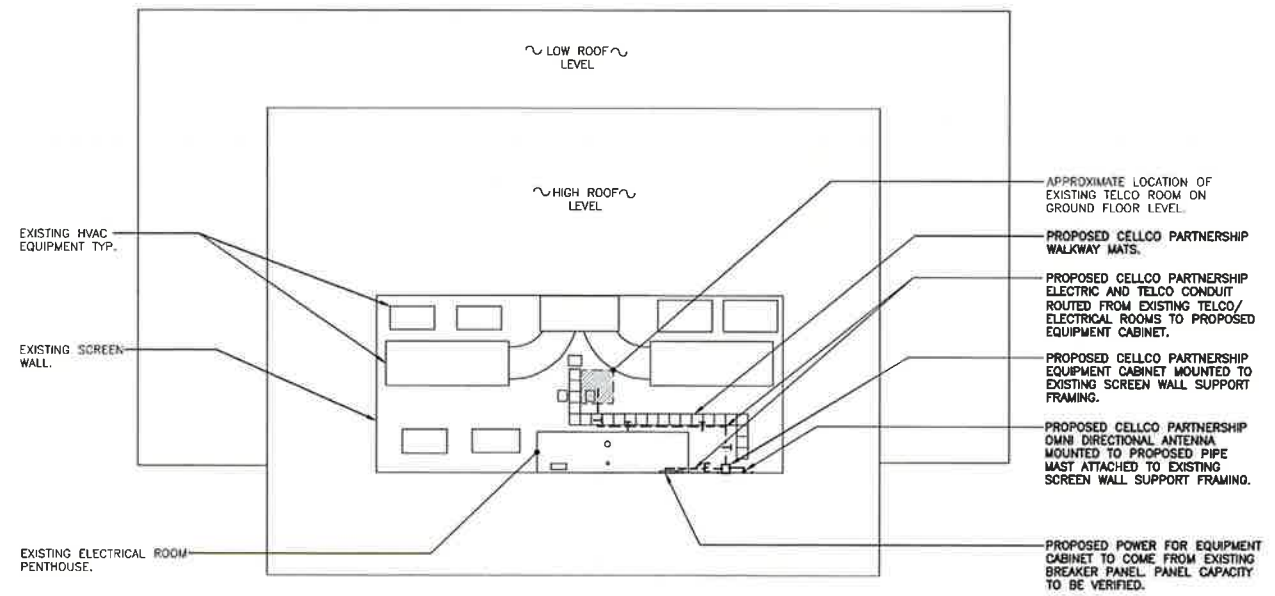
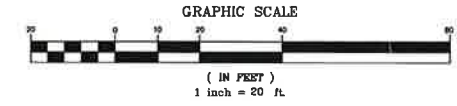
**4 ANTENNA MOUNTING SECTION**  
C-2 NOT TO SCALE



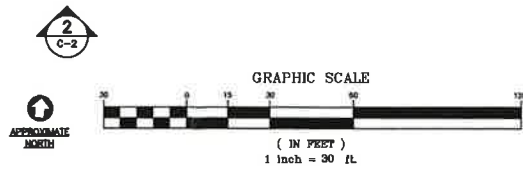
**3 ANTENNA MOUNTING CONFIGURATION PLAN VIEW**  
C-2 NOT TO SCALE



**2 NORTH ELEVATION**  
C-2 SCALE: 1" = 20'



**1 ROOF PLAN**  
C-2 SCALE: 1" = 30'



REV.	DATE	BY	CHKD BY	DESCRIPTION
0	10/27/14	ORA	DMD	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership  
d/b/a Verizon Wireless  
d.b.a. VeriZON Wireless

**CEN TEK** engineering  
Command Solutions™  
203 498-0390  
203 498-8397 Fax  
652 North Branford Road  
Branford, CT 06405  
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless  
WIRELESS COMMUNICATIONS FACILITY  
**SOUTHINGTON SC2**  
200 EXECUTIVE BOULEVARD  
SOUTHINGTON, CT 06489

DATE: 10/29/14  
SCALE: AS NOTED  
JOB NO. 14214.000

ROOF PLAN  
ELEVATION &  
ANTENNA CONFIG.

**CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS**

**ABUTTERS LIST  
MAP 131/LOT 005**

**200 EXECUTIVE BOULEVARD  
SOUTHINGTON, CONNECTICUT**

	<u>Map/Lot</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	131/007	100 Executive Boulevard	Connecticut On-Line Computer 135 Darling Drive Avon, CT 06001
2.	132/072	Executive Boulevard	Execwest LLC c/o Northstar Centers LLC 532 Page Street Stoughton, MA 02072
3.	131/004	400 Executive Boulevard	Webster Bank National Association CityPlace II 185 Asylum Street Hartford, CT 06103
4.	131/003	99 Executive Boulevard	Execwest LLC c/o Northstar Centers LLC 532 Page Street Stoughton, MA 02072
5.	131/014	987 West Street	Thomas R. Duksa 478 Plymouth Road Harwinton, CT 06791
6.	131/013	West Street	Richard A. Duksa 561 Redstone Hill Road Bristol, CT 06010
7.	131/012	1063 West Street	Richard A. Duksa 561 Redstone Hill Road Bristol, CT 06010