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

AT 396 AND 412 MOUNT VERNON ROAD,

SOUTHINGTON, CONNECTICUT : AUGUST 22, 2017

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 "small cell" telecommunications facility at the Mount Southington Ski Area, located at 396 and 412 Mount Vernon Road in Southington, Connecticut (the "Property"). The Property is owned by Mount Southington Limited Partnership and is used for recreational purposes. Cellco refers to the proposed facility as its "Mount Southington SC Facility".

II. Factual Background

16901620-v1

The Property is an approximately 98-acre parcel in Southington's Residential (R-80) zone district. See <u>Attachment 1</u> – Site Vicinity and Site Schematic Maps (Aerial Photograph). Cellco

is licensed to provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in Southington and throughout the State of Connecticut. Initially, the proposed Mount Southington SC Facility will provide wireless service in Cellco's 2100 MHz frequency range only.

A. Proposed Mount Southington SC Facility

The proposed Mount Southington SC Facility would consist of a single canister antenna (Model NH3600M-DG-2XR) mounted to the top of an existing privately-owned wood pole. The existing pole supports two lighting units and is used by Eversource to bring power to the Property. The wood pole is located on the Property, outside of the public right of way. The canister antenna at the top of the pole will extend to a height of approximately 31'-11" above ground level (AGL). Cellco will also install a remote radio head (RRH) (Model B66A-RRH-4x45) and related electrical equipment on the lower portion of the pole. (*See* Cellco's Project Plans included in Attachment 2). Power and telephone service to the Mount Southington SC Facility will extend from existing service on the pole. Specifications for the Mount Southington SC Facility antenna and RRH are included in Attachment 3.

III. Discussion

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

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

adverse environmental effect". C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a single canister antenna, RRH and electrical equipment on an existing wood pole will not involve a significant alteration in the physical and environmental characteristics of the Property. No tree removal or ground disturbance of any kind is required to install the proposed small cell wireless facility.

2. Visual Effects

The visibility of the proposed "small cell" facility would be limited to locations primarily along Mount Vernon Road. Due to its location among existing Ski Area and utility infrastructure, Cellco has determined that the proposed small cell facility would not be highly conspicuous, will not have an adverse visual impact on the existing views and will not change the character of the community. (See Visual Assessment & Photo-Simulations ("Visual Assessment") included in Attachment 4).

3. FCC Compliance

Radio frequency ("RF") emissions from the proposed installation will be well below the standards adopted by the Federal Communications Commission ("FCC"). Included in <u>Attachment 5</u> is a General Power Density table for Cellco's "small cell" antenna at a centerline height of approximately 30 feet AGL. This worst-case calculation indicates that the Mount Southington SC Facility will operate well within (42.83% of the Standard) the RF emission standards established by the FCC.

4. FAA Summary Report

Included in <u>Attachment 6</u> of this Petition is a Federal Airways & Airspace Summary

Report verifying that the new tower and concealment structure described in this Petition would

not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

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

On August 22, 2017, a copy of this Petition was sent to Southington's Town Manager, Garry Brumback; Robert Phillips, Southington's Director of Planning and Community Development; and Mount Southington Limited Partnership, the owner of the Property. Notice of Cellco's intent to file the Petition was also sent to the owners of land that abuts the Property. Included in <u>Attachment 7</u> are copies of the letters sent to Mr. Brumback, Mr. Phillips and Mount Southington Limited Partnership. Included in <u>Attachment 8</u> is a sample abutter's letter and the list of those abutting landowners who were sent notice of the filing of the Petition.

IV. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a small cell wireless telecommunications facility at the Mount Southington Ski Area 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

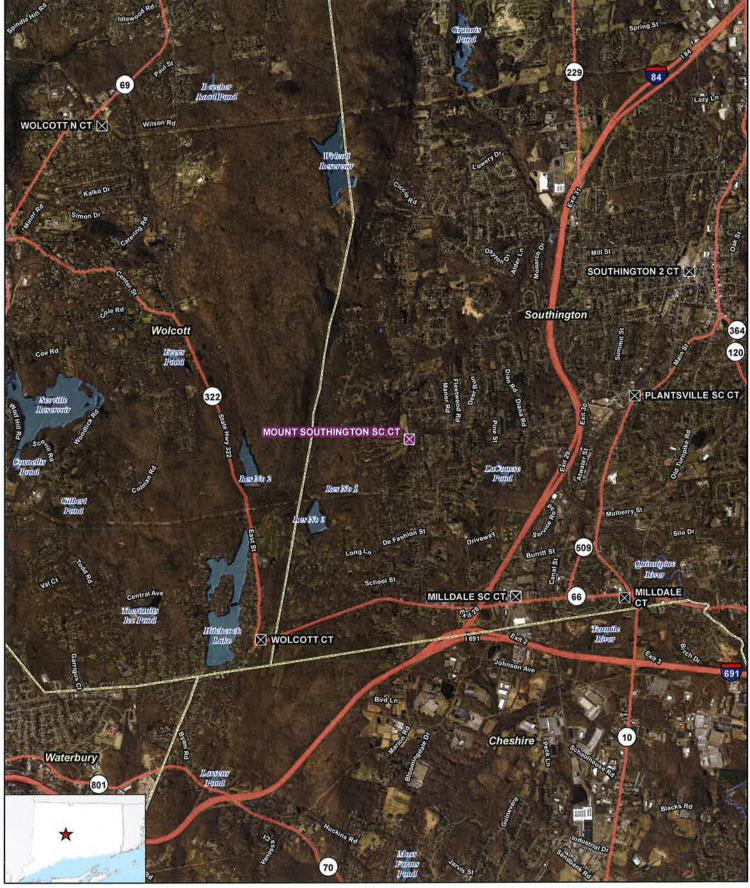
Kenneth C. Baldwin, Esq. Robinson & Cole LLP

280 Trumbull Street

Hartford, CT 06103-3597

(860) 275-8200

Its Attorneys

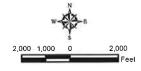


Legend

Proposed Verizon Wireless Facility

Surrounding Verizon Wireless Facilities

Municipal Boundary

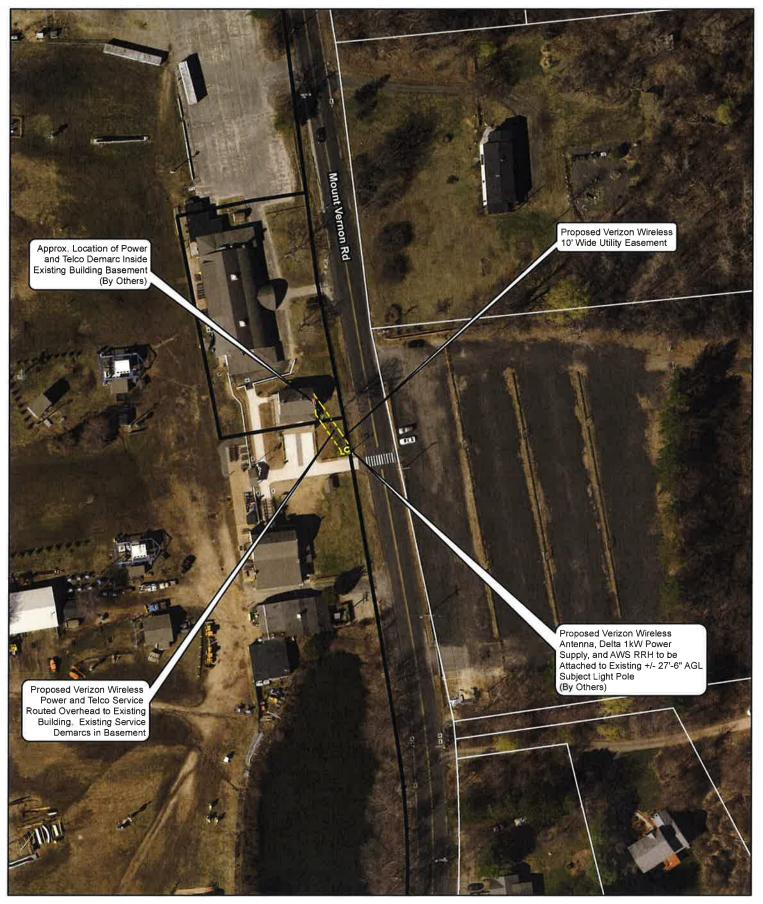


Site Vicinity Map

Proposed Wireless Telecommunications Facility Mount Southington SC CT 396 and 412 Mount Vernon Road Southington, Connecticut

verizon/





Legend

Existing Subject Light Pole (By Others)

Proposed Verizon Wireless Power and Telco Service
Proposed Verizon Wireless Utility Easement
Existing Equipment (By Others)

Subject Property

))

Approximate Parcel Boundary Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)



Site Schematic

Proposed Wireless Telecommunications Facility Mount Southington SC CT 396 and 412 Mount Vernon Road Southington, Connecticut

verizon /



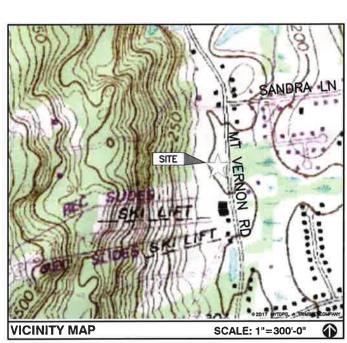
CELLCO PARTNERSHIP



WIRELESS COMMUNICATIONS FACILITY

MOUNT SOUTHINGTON CT

396 AND 412 MOUNT VERNON ROAD **SOUTHINGTON, CT 06479**



DIRECTIONS TO SITE:

FROM VERIZON EAST HARTFORD OFFICE:-

396 MT VERNON RD SOUTHINGTON, CT

GET ON I-84 FROM E RIVER DR AND CONNECTICUT BLVD HEAD NORTHEAST ON E RIVER DR TOWARD DARLIN ST TURN LEFT TO STAY ON E RIVER DR TURN LEFT AT THE 1ST CROSS STREET ONTO CONNECTICUT BLVD TURN LEFT ONTO THE ROUTE 84 W RAMP TO HARTFORD/ROUTE 91 FOLLOW I-84 TO MARION AVE IN SOUTHINGTON. TAKE EXIT 30 FROM I-84 MERGE ONTO 1-84 KEEP LEFT TO STAY ON I-84 TAKE EXIT 30 FOR MARION AVE TOWARD W MAIN ST CONTINUE ON MARION AVE.
TAKE FROST ST TO MT VERNON RD
TURN RIGHT ONTO MARION AVE TURN RIGHT ONTO FROST ST TURN RIGHT ONTO MT VERNON RD DESTINATION WILL BE ON THE LEF

CONSULTANT TEAM

PROJECT ENGINEER

HUDSON DESIGN GROUP, LLC 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586

MEP ENGINEER

HUDSON DESIGN GROUP, LLC 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586

PROJECT SUMMARY

SITE NAME: MOUNT SOUTHINGTON SC CT

SITE ADDRESS:

396 AND 412 MOUNT VERNON ROAD SOUTHINGTON, CT 06479

PROPERTY OWNER:

MT SOUTHINGTON LIMITED PO BOX 347 SOUTHINGTON, CT 06489

APPLICANT:

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

SITE ACQUISITION CONTACT:

ALEKSEY TYURIN VERIZON WIRELESS EAST HARTFORD, CT 06108 PHONE: (860) 803-8213

LEGAL/REGULATORY COUNSEL: KENNETH C. BALDWIN ESQ.

ROBINSON + COLE LLP

(860)275-8345

LATITUDE: LONGITUDE: N 41° 34' 56.70" W 72° 55' 28.60"

SCOPE OF WORK INFO

VERIZON WIRELESS IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS ON PROPOSED TELECOMMUNICATION SITE:

- (1) NEW SMALL CELL ANTENNA WITH ASSOCIATE CABLING AND APPURTENANCES.
- (1) NEW RRH WITH DELTA 1KW POWER SUPPLY AND ROUTER (SAR-0). ITEMS LISTED ABOVE TO BE MOUNTED ON EXISTING UTILITY POLE.

NEW POWER AND TELCO SERVICES WILL BE ROUTED OVERHEAD FROM EXISTING BUILDING TO PROPOSED EQUIPMENT ON UTILITY POLE WITHIN PROPOSED UTILITY EASEMENT.

SHEET INDEX SHT. DESCRIPTION NO. TITLE SHEET C-1 ABUTTERS PLAN ELEVATION AND EQUIPMENT PLAN PREPARED FOR: CELLCO PARTNERSHIP D.B.

verizon



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 N, ANDOVER, MA 01845 FAX: (978) 537-5553 FAX: (978) 336-5586

CHECKED BY DJR

APPROVED BY DPH

	SI	JBMITTALS	
REV.	DATE	DESCRIPTION	BY
_			+
Н			+
1	08/21/17	REVISED PER COMMENTS	SLY
0	08/14/17	ISSUED FOR REVIEW	SLY

SITE NAME:

MOUNT SOUTHINGTON SC CT

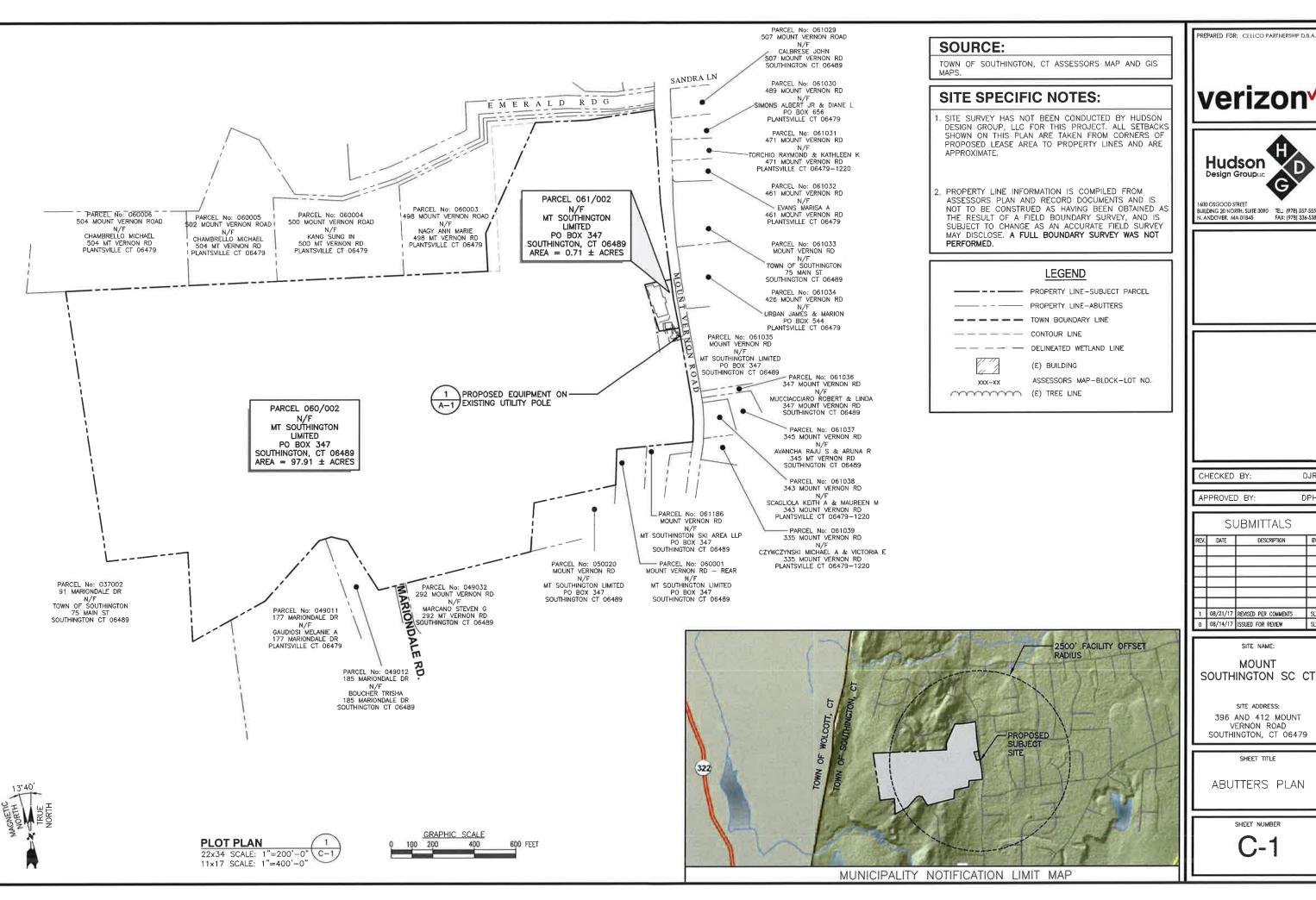
SITE ADDRESS:

396 AND 412 MOUNT VERNON ROAD SOUTHINGTON, CT 06479

SHEET TITLE

TITLE SHEET

SHEET NUMBER



verizon



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: {978} 557-5553 N. ANDOVER, MA 01845 FAX: [978] 336-5586

CHECKED BY: DJR

DPH APPROVED BY:

SUBMITTALS

	20	DRIMILIAE2	
REV.	DATE	DESCRIPTION	BY
			\vdash
1	08/21/17	REVISED PER COMMENTS	SLY
0	08/14/17	ISSUED FOR REVIEW	SLY

SITE NAME:

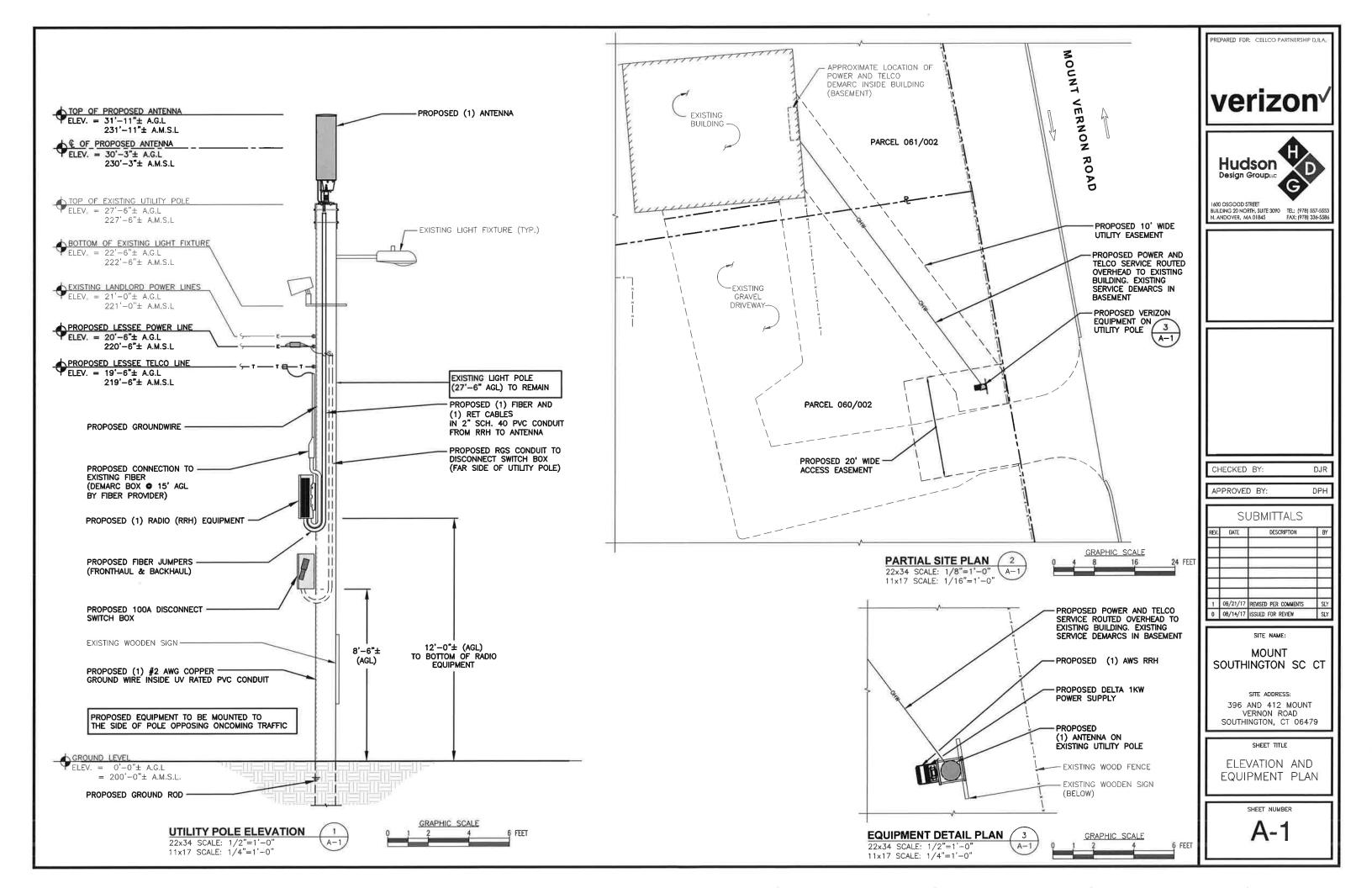
MOUNT SOUTHINGTON SC CT

SITE ADDRESS: 396 AND 412 MOUNT VERNON ROAD SOUTHINGTON, CT 06479

SHEET TITLE

ABUTTERS PLAN

SHEET NUMBER



Product Specifications





NH360QM-DG-2XR

Multiband Quasi Omni Metro Cell Antenna, 698-896 and 1695-2200 MHz, internal RETs with manual override, internal diplexer and active GPS L1 band antenna

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200
Gain, dBi	6.1	7.1	9.7	9.9	9.9
Beamwidth, Horizontal, degrees	360	360	360	360	360
Beamwidth, Vertical, degrees	28.6	25.4	11.2	10.6	10.1
Beam Tilt, degrees	0-20	0-20	0-14	0-14	0-14
USLS (First Lobe), dB	16	15	14	13	13
Isolation, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	125	125	125	125	125
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 oh m	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200
Gain by all Beam Tilts, average, dBi	5.4	6.3	9.3	9.4	9.4
Gain by all Beam Tilts Tolerance, dB	±1	±0.7	±0.5	±0.7	±0.7
	0 ° 5,1	0 ° 6.3	0 ° 9.2	0 ° 9.3	0 ° 9.4
Gain by Beam Tilt, average, dBi	10 ° 5.4	10 ° 6.3	7 ° 9.3	7° 9.5	7° 9.6
	20 ° 5.6	20 ° 6.0	14 ° 9.2	14 ° 9.1	14 ° 9.1
Beamwidth, Vertical Tolerance, degrees	±3.7	±3.2	±0.9	±1.1	±1,1
USLS, beampeak to 20° above beampeak, dB			13	13	13

^{*} CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

General Specifications

· · · · · · · · · · · · · · · · · · ·	
Operating Frequency Band	1695 - 2200 MHz 698 - 896 MHz
Antenna Type	Omni
Band	Multiband
Internal GPS frequency band	1575.42 MHz
Internal GPS VSWR	2.0
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Quantity, low band	2
RF Connector Quantity, high band	2
RF Connector Interface	7-16 DIN Female
Color	Light gray

Product Specifications



NH360QM-DG-2XR

GPS Connector Interface 4.1-9.5 DIN Female

GPS Connector Quantity 1

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Radiator Material Aluminum | Low loss circuit board

Radome Material ASA, UV stabilized

Reflector Material Aluminum RF Connector Location Bottom

RF Connector Quantity, diplexed low and high bands 2

Wind Loading, maximum 225.0 N @ 150 km/h

50.6 lbf @ 150 km/h

Wind Speed, maximum 200 km/h | 124 mph

Dimensions

 Length
 982.0 mm | 38.7 in

 Outer Diameter
 305.0 mm | 12.0 in

 Net Weight, without mounting kit
 15.3 kg | 33.7 lb

Remote Electrical Tilt (RET) Information

Input Voltage 10–30 Vdc

Internal RET High band (1) | Low band (1)

Power Consumption, idle state, maximum 2.0 W Power Consumption, normal conditions, maximum 13.0 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

RET Interface 8-pin DIN Male

RET Interface, quantity 1 male

Packed Dimensions

 Length
 1251.0 mm | 49.3 in

 Width
 427.0 mm | 16.8 in

 Depth
 407.0 mm | 16.0 in

 Shipping Weight
 20.6 kg | 45.4 lb

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2011/65/EU Compliant by Exemption

China RoHS SJ/T 11364-2006 ISO 9001:2008 Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

ALCATEL-LUCENT B66A RRH4X45

The Alcatel-Lucent B66a Remote Radio Head 4x45 is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering. Its operational range covers beyond that of B4 (AWS) and B10 (AWS+).

Supporting 2Tx/4Tx MIMO and 2-way/4-way Rx diversity, the Alcatel-Lucent B66a RRH4x45 allows operators to have a compact radio solution to deploy LTE in the 2100 band (3GPP band 4, 10, and 66), providing them with the means to achieve high capacity, high quality, high reliability, large instantaneous bandwidth, and high coverage with minimum site requirements.

The Alcatel-Lucent B66a RRH4x45 product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x90W or 4x45W RF output power. It also supports 4-way Rx diversity at the 70 MHz instantaneous bandwidth.

The Alcatel-Lucent B66a RRH4x45 is a compact (near zero-footprint) solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

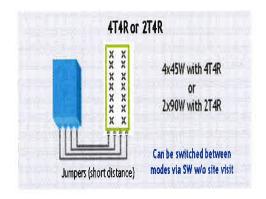
Its compactness and slim design makes the Alcatel-Lucent B66a RRH4x45 easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

FEATURES

- Supporting LTE in 2110 2180 MHz band/DL, 1710-1780MHz/UL (3GPP band 4, 10, and 66a)
- LTE 2Tx or 4Tx MIMO (SW selectable)
- Configuration: 2T2R/2T4R/4T4R
- Output power: Up to 2x90W or 4x45W (SW configurable)
- 70MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in AWS 1-3 band
- Selection of MIMO configuration (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through 4Tx MIMO
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall





	Features & Performance
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R selectable by SW)
Frequency band	AWS 1-3, B4/B66a DL: 2110-2180 MHz / UL: 1710-1780 MHz
Instantaneous bandwidth - #carriers	70 MHz - 4 LTE MIMO carriers (in 70 MHz occupied bandwidth)
LTE carrier bandwidth	5, 10, 15, 20 MHz
RF output power	2x90W or 4x45W (selectable by SW)
Noise figure – RX Diversity scheme Receiver Sensivity (FRC A1-3)	2 dB typical (<2.5 dB max) – 2 or 4 way Rx diversity -104.5 dBm maximum
Sizes (HxWxD) in mm (in.) Volume in Liters	655x299x182 (25.8x11.8x7.2) (with solar shield) 640x290x160 (25.2x11.4x6.3) (without solar shield) 35.5 (with solar shield) 29.7 (without solar shield)
Weight in kg (ib) (w/o mounting HW)	25.8kg (56.8lb) (with solar shield)
DC voltage range	Nominal: -48V, -40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	750W typical @100% RF load (in 2Tx or 4Tx mode); Add 58W for 2A*29V for AISG
Environmental conditions Wind load (@150km/h or 93mph)	-40°C (-40°F) /+55°C (+131°F) UL50E Type 4 Enclosure 250N (56lb) Frontal/150N (34lb) Lateral
Antenna ports	4 ports 4.3-10 female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate 7, 9.8 Gbps) SFP: SMDF (HW supports also SMSF and MMDF)
AISG interfaces	1 AISG 2.0 output (RS485) Integrated Smart Blas Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-487 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27 / FCC Part 15 / GR-3178-CORE

www.alcatel-lucent.com Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners. The information presented is subject to change without notice, Alcatel-Lucent assumes no responsibility for inaccuracies contained herein.

Copyright © 2016 Alcatel-Lucent, All Rights Reserved



Visual Assessment & Photo-Simulations

396 AND 412 MOUNT VERNON ROAD SOUTHINGTON, CT 06479



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

Prepared for Verizon Wireless



VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed this visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications facility ("Facility") at 396 and 412 Mount Vernon Road Southington, Connecticut (the "Host Property").

Project Setting

The Host Property is located on the western side of Mount Vernon Road, south of Emerald Ridge Road and north of Frost Street. The Host Property is currently occupied by the Ski Mount Southington ski area ("Ski Area") and includes several buildings and machinery used to support site operations. A large paved parking area associated with the Ski Area is located to the immediate east of the proposed Facility, across Mount Vernon Road. The surrounding land use is a mix of residential properties to the north, south and east with large expanses of undeveloped woodlands with reservoirs to the west. See Figure 1 – Site Location Map.

The proposed Facility would include one (1) panel antenna with associated appurtenances and cabling mounted to and on top of an existing utility pole located next to the main entrance of the Ski Area. The utility pole currently houses two safety light fixtures and a wooden sign. The height of the proposed antennas would be ±32.0 feet above ground level ("AGL") and approximately 4.5 feet above the top of the existing utility pole. Associated equipment would be mounted on the western side of the utility pole, opposite Mount Vernon Road. Utilities would be routed overhead from the utility pole to existing services within the basement of a building located approximately 66 feet to the northwest. The proposed Facility components and their locations are illustrated in Figure 2 – Proposed Equipment Location and Elevation Plan.

Methodology

On July 26, 2017, APT personnel conducted field reconnaissance and photo-documented 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 using a focal length of 50 mm for consistency.

Three-dimensional computer models were developed for the building and proposed Facility components 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.



Legend

X Site

Subject Property (Entire Extent of Subject Property Not Depicted) Approximate Parcel Boundary (CTDEEP GIS)

Figure 1 - Site Location Map

Proposed Wireless Telecommunications Facility Mount Southington SC CT 396 and 412 Mount Vernon Road Southington, Connecticut

verizon\



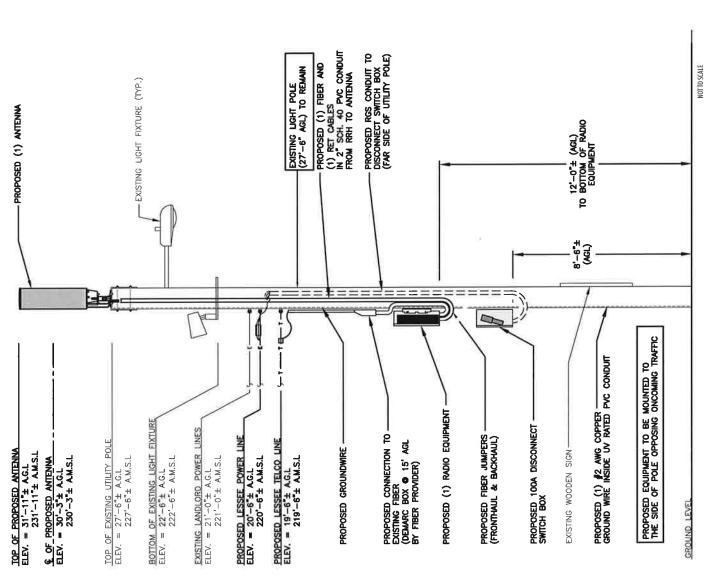


FIGURE 2 - PROPOSED EQUIPMENT LOCATION AND ELEVATION PLAN

Photograph Locations

Four (4) photo-locations were simulated and present generally unobstructed view lines towards at least a portion of the proposed installation(s). The table below summarizes characteristics of the photographs and simulations presented in the attachment to this report including a description of each location, view orientation, and the distance from where the photo was taken relative to the proposed Facility. A photo-log map depicting the photo locations and corresponding photo-simulations are provided in the attachment to this report.

View	Location	Orientation	Distance to Site
1	Mount Vernon Road	North	±160 Feet
2	Parking Area Adjacent to Host Property	West	±121 Feet
3	Mount Vernon Road	Southwest	±125 Feet
4	Host Property	Northeast	±98 Feet

Conclusions

The visibility of the proposed Facility would be limited primarily to nearby locations adjacent to along Mount Vernon Road. Located among the substantial utility and Ski Area infrastructure in the immediate area, the Facility would not be highly conspicuous.

Based on the results of this assessment, it is our opinion that the proposed installation of the Verizon Wireless small cell Facility will not have an adverse visual impact on existing views or the character of the community.

Limitations

The photo-simulations provide a representation of the Facility under similar settings as those encountered during the reconnaissance. They are however static in nature and do not necessarily characterize the prevailing views from all locations within a given area. For example, moving a few feet in either direction from a specific photo location may significantly alter the view, including obscuring the Facility altogether. Views of the Facility can change throughout the seasons and the time of day, and are dependent on weather and other atmospheric conditions (e.g., haze, fog, clouds); the location, angle and intensity of the sun; and the specific viewer location.

Attachments







B

Sitte

Mount Vernon Rd





Legend

Site O Year-Round Visibility

PHOTO LOG













DISTANCE TO SITE

ORIENTATION



MOUNT VERNON ROAD LOCATION

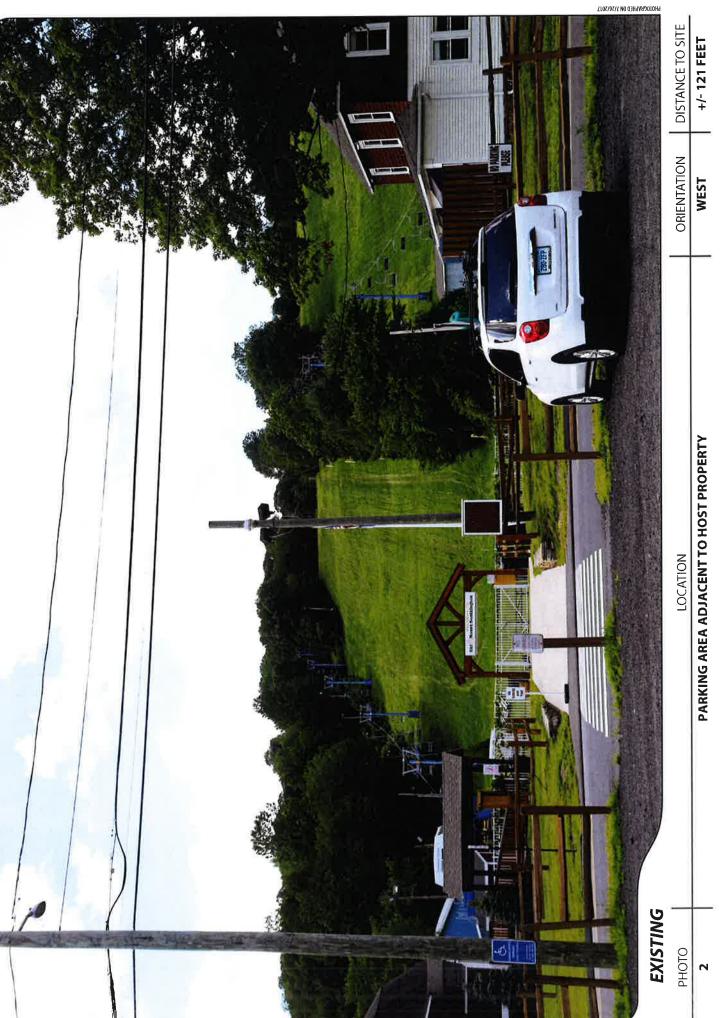
PROPOSED

PHOTO













+/- 121 FEET ALL-POINTS TECHNOLOGY CORPORATION

WEST PARKING AREA ADJACENT TO HOST PROPERTY



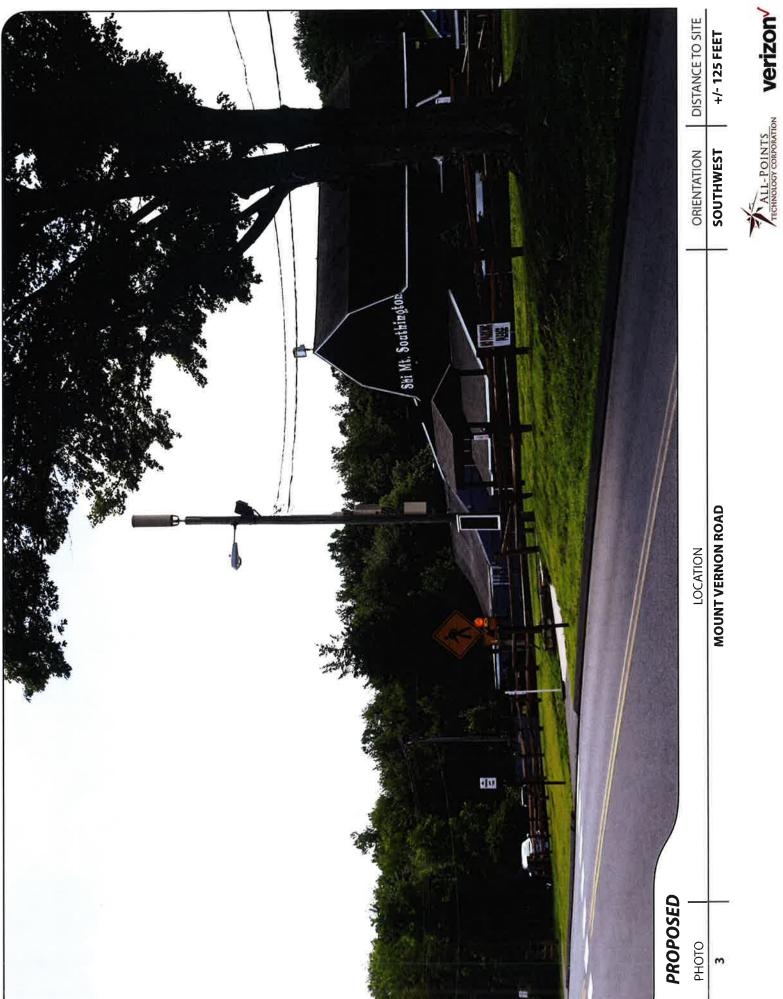


















HOST PROPERTY LOCATION

PHOTO

EXISTING





DISTANCE TO SITE

ORIENTATION

NORTHEAST

HOST PROPERTY LOCATION

PROPOSED

PHOTO

MT Southington SC CT **Cumulative Power Density** Site Name:

Operator	Operating Number Frequency of Trans.	Number of Trans.	Number ERP Per of Trans.	Total	Distance to Target		Calculated Maximum Power Permissible Density Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2) (mW/cm^2)	(%)
VZW 700	746	па						%00.0
VZW Cellular	869	na						%00.0
VZW PCS	1970	na						%00.0
VZW AWS	2145	1	1072	1072	30	0.4283	1.0	42.83%
Total Percentage	ntage of Ma	of Maximum Permissible Exposure	ermissibl	e Expos	ure			42.83%

*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^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.

*************** Federal Airways & Airspace Summary Report: Existing Structure Antenna Structure Airspace User: Maria Montrose File: MTSOUTHINGTONSC Location: Waterbury, CT Latitude: 41°-34'-56.7" Longitude: 72°-55'-28.6" SITE ELEVATION AMSL....200 ft. STRUCTURE HEIGHT.....32 ft. OVERALL HEIGHT AMSL.....232 ft. SURVEY HEIGHT AMSL.....232 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) NNR FAR 77.9 IFR Straight-In Notice Criteria for FAR 77.9: MMK NNR FAR 77.9 IFR Straight-In Notice Criteria for FAR 77.9: 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.

The location and analysis were based upon an existing structure. However,

no existing aeronautical study number was identified. If the 'existing'

structure penetrates an obstruction surface defined by CFR 77.17, 77.19,

 $77.21 \ \text{or} \ 77.23$ (see below) it is strongly recommended the FAA be notified

of the 'existing' structure to determine obstruction marking or lighting

requirements. It is not uncommon for the FAA to issue a Determination of

 $\,$ No Hazard (DNH) for an existing structure and modify the airspace to

accommodate the structure, should that be required. If the FAA issues a

 $\,$ DNH enter the aeronautical study number (ASN) in the space provided on the

Airspace Analysis Window Form and re-run Airspace.

The below analysis reflects the aeronautical conditions that exist as of the

date stamped on this analysis.

Notice to the FAA is not required at the analyzed location and height for $% \left(1\right) =\left(1\right) +\left(1\right) +$

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: MMK: MERIDEN MARKHAM MUNI

Type: A RD: 36019.49 RE: 103

FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): Does Not Apply.

VFR Horizontal Surface: DNE

VFR Conical Surface: DNE

VFR Approach Slope: DNE

VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: N41: WATERBURY

Type: A RD: 37544.11 RE: 852

FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): Does Not Apply.

VFR Horizontal Surface: DNE

VFR Conical Surface: DNE

VFR Approach Slope: DNE

VFR Transitional Slope: DNE

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 1500 ft AMSL

P	RIVAT FACI	E LANDI L	NG FAC	CILI'	ΓΙΕS		:	BEARIN(3	RANGE	DELTA
ARP FA		T TYP N	7 M E					To FACI	гт.	IN NM	
ELEVAT			AND					IO PAC		TI/ 1/1/1	
									-		
68	1CT3	HEL S	T MARY	Z'S				251.0	7	5.39	=
		mpact t cture 0				ng Facil ort.	lity				
174	CT03	HEL B	RISTOI	L HO	SPITAL			354.	76	5.66	=
17-1		mpact t cture 2				ng Facil ort.	lity				
21	CT60	HEL U	LTIMAT	Œ				15.1	L3	5.77	120
<i></i>		mpact t cture 0				ng Facil ort.	lity				
+87	CT95	HEL M	ERIDEN	J-WA	LLINGF	ORD HOS	PITAL	119.6	51	5.96	
107						ng Facil limit k		14 feet			
	FAC	VIGATIO	N ELEC	CTRO ST	NIC FA	CILITIES	S DIST	DELTA			
	APCH IDNT	TYP	E	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCATIO	N
ANGLE	BEAK			·							
	JWE	NDB		I	36	215.17	89239	-339	СТ	CLERA	
-,22	HFD	VOR/DM	E	R	114.9	78.17	105344	-617	СТ	HARTFOR	D
34	MAD	VOR/DM	E	R	110.4	147.01	116784	+12	CT	MADISON	
.01	HVN	VOR/DM	E	R	109.8	174.71	117139	+226	СТ	NEW HAV	EN
0.00	BDL	RADAR		ON		26.9	145622	-4	CT	BRADLEY	INTL

0.3	BDL	VORTAC	D	109.0	26,16	145675	+72	CT	BRADLEY
.03	BDR	VOR/DME	R	108.8	199.58	163170	+223	CT	BRIDGEPORT
.08	PWL	VOR/DME	I	114.3	290.51	196873	-1018	NY	PAWLING
13	CMK	VOR/DME	I	116.6	238,33	211108	-462	NY	CARMEL

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: WNTY @ 3466 meters.

Airspace® Summary Version 17.7.471

AIRSPACE® and TERPS® are registered ® trademarks of Federal Airways & Airspace® Copyright © 1989 - 2017

07-28-2017 09:03:15

ATTACHMENT 7

Robinson + Cole

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

August 22, 2017

Via Certificate of Mailing

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

Re: Proposed Installation of a Wireless Telecommunications Facility at 396 and 412 Mount Vernon Road, 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 wireless telecommunications facility at the Mount Southington Ski Area, 396 and 412 Mount Vernon Road in Southington (the "Property"). Cellco intends to install a single canister antenna, a remote radio head and associated electrical equipment on an existing wood pole on the Property. The top of the canister antenna would extend to a height of approximately 31'-11" above grade.

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16901649-v1

Robinson Cole

Garry Brumback, Town Manager August 22, 2017 Page 2

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

Sincerely,

Kenneth C. Baldwin

Robinson + Cole

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

August 22, 2017

Via Certificate of Mailing

Robert Phillips
Director of Planning and Community Development
Town of Southington Municipal Center
196 North Main Street
Southington, CT 06489

Re: Proposed Installation of a Wireless Telecommunications Facility at 396 and 412 Mount Vernon Road, Southington, Connecticut

Dear Mr. Phillips:

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 wireless telecommunications facility at the Mount Southington Ski Area, 396 and 412 Mount Vernon Road in Southington (the "Property"). Cellco intends to install a single canister antenna, a remote radio head and associated electrical equipment on an existing wood pole on the Property. The top of the canister antenna would extend to a height of approximately 31'-11" above grade.

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16901651-vl

Robinson+Cole

Robert Phillips August 22, 2017 Page 2

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

Sincerely,

Kenneth C. Baldwin

Robinson Cole

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

August 22, 2017

Via Certificate of Mailing

Mount Southington Limited Partnership P.O. Box 347 Southington, CT 06489

Re: Proposed Installation of a Wireless Telecommunications Facility at 396 and 412 Mount Vernon Road, 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 wireless telecommunications facility at the Mount Southington Ski Area, 396 and 412 Mount Vernon Road in Southington (the "Property"). Cellco intends to install a single canister antenna, a remote radio head and associated electrical equipment on an existing wood pole on the Property. The top of the canister antenna would extend to a height of approximately 31'-11" above grade.

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16901655-v1

Robinson + Cole

Mount Southington Limited Partnership August 22, 2017 Page 2

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

Sincerely,

Kenneth C. Baldwin

ATTACHMENT 8

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

August 22, 2017

Via Certificate of Mailing

«Name_and_Address»

Re: Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a Wireless Telecommunications Facility at 396 and 412 Mount Vernon Road, 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 wireless telecommunications facility at the Mount Southington Ski Area, 396 and 412 Mount Vernon Road in Southington (the "Property"). Cellco intends to install a single canister antenna, a remote radio head and associated electrical equipment on an existing wood pole on the Property. The top of the canister antenna would extend to a height of approximately 31'-11" above grade. A copy of the Petition is attached for your review.

This notice is being sent to you because you are listed on the Town Assessor's records as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council's process for reviewing the 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.

August 22, 2017 Page 2

> Sincerely, Kunsel Zmu-

Kenneth C. Baldwin

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

1650 BOSTON POST ROAD MILFORD, CONNECTICUT

	Property Address	Owner's and Mailing Address
1	Mount Vernon Road	Mt. Southington Ski Area LLP P.O. Box 347 Southington, CT 06489
2.	Mount Vernon Rear	Mt. Southington Ski Area LLP P.O. Box 347 Southington, CT 06489
3.	Mount Vernon Road	Mt. Southington Ski Area LLP P.O. Box 347 Southington, CT 06489
4.	292 Mount Vernon Road	Steven Marcano 292 Mount Vernon Road Southington, CT 06489
5.	186 Mariondale Drive	Robert J. and Ann O. Taylor 186 Mariondale Drive Plantsville, CT 06479
6.	185 Mariondale Drive	Trisha Boucher 185 Mariondale Drive Southington, CT 06489
7.	177 Mariondale Drive	Melanie Gaudiosi 177 Mariondale Drive Plantsville, CT 06479
8.	91 Mariondale Drive	Town of Southington 75 Main Street Southington, CT 06489
9.	504 Mount Vernon Road	Michael Chambrello 504 Mount Vernon Road Plantsville, CT 06479

	Property Address	Owner's and Mailing Address
10.	502 Mount Vernon Road	Michael Chambrello 504 Mount Vernon Road Plantsville, CT 06479
11,	500 Mount Vernon Road	Sung In Kang 500 Mount Vernon Road Plantsville, CT 06479
12.	498 Mount Vernon Road – Lot 1R	Ann Marie Nagy 498 Mount Vernon Road Plantsville, CT 06479
13,	507 Mount Vernon Road	John Calabrese 507 Mount Vernon Road Southington, CT 06489
14.	489 Mount Vernon Road	Diane L. and Albert Simons, Jr. P.O. Box 656 Plantsville, CT 06479
15.	471 Mount Vernon Road	Raymond and Kathleen Torchio 471 Mount Vernon Road Plantsville, CT 06479
16.	461 Mount Vernon Road	Marisa Evans 461 Mount Vernon Road Plantsville, CT 06479
17.	Mount Vernon Road	Town of Southington 75 Main Street Southington, CT 06489
18.	426 Mount Vernon Road	James and Marion Urban P.O. Box 544 Plantsville, CT 06479-0544
19.	Mount Vernon Road	Mt. Southington Limited Partnership P.O. Box 347 Southington, CT 06489
20.	347 Mount Vernon Road	Robert and Linda Mucciacciaro 347 Mount Vernon Road Southington, CT 06489

	Property Address	Owner's and Mailing Address
21.	345 Mount Vernon Road	Aruna R. and Raju Avancha 345 Mount Vernon Road Southington, CT 06489
22.	343 Mount Vernon Road	Keith A. and Maureen Scagliola 343 Mount Vernon Road Plantsville, CT 06479
23.	335 Mount Vernon Road	Michael A. and Victoria E. Czywcynski 335 Mount Vernon Road Plantsville, CT 06479