

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 84 FARMINGTON AVENUE, BRISTOL, :
CONNECTICUT : MARCH 3, 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 facility on the roof of a commercial/retail building (Harvest Bakery) at 84 (a/k/a 72) Farmington Avenue in Bristol, Connecticut (the “Property”). The Property is owned by MCH Properties (“Property Owner”). Cellco identifies this cell site as its “Bristol SC1 Facility”.

II. Factual Background

The Property is an approximately 0.83-acre commercial (retail) parcel on the south side of Farmington Avenue (Route 6) between Stewart Street and Rustic Terrace. The Property is

surrounded by commercial uses, including the Bristol Commons Shopping Plaza, along Farmington Avenue and residential uses to the south. *See Attachment 1 – Site Vicinity and Site Schematic (Aerial Photograph).*

Cellco currently maintains three (3) cell sites within approximately three (3) miles of the Property. Cellco's Bristol cell site consists of antennas on the roof of a building at 32 Valley Street. Cellco's Bristol North cell site consists of antennas on a water tank at 80 Princeton Avenue. Cellco's Bristol West 2 cell site consists of antennas on a tower at 371 Terryville Avenue. Cellco's Bristol and Bristol North cell sites, which currently provide service in the area surrounding the Property, are operating at or near their respective capacity limits. The commercial shopping areas, particularly the Bristol Commons Shopping Plaza to the north and traffic along Farmington Avenue (Route 6), have been identified as data traffic concentration sources that contribute to these existing capacity problems in the area. In an effort to relieve these capacity demands and provide customers with improved wireless service in the area, Cellco has proposed to install a small cell facility at the Property.

III. Proposed Bristol SC1 Facility

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Bristol and throughout the State of Connecticut. Initially, the proposed Bristol SC1 Facility described above will provide wireless service in Cellco's 2100 MHz (AWS) frequency range only. Coverage plots showing Cellco's 2100 MHz service in Bristol and the surrounding Towns today and the coverage footprint for the proposed Bristol SC1 Facility are included in Attachment 2.

The proposed Bristol SC1 Facility would consist of a single canister-type antenna (Model NH360QS-DG-F0M) and a remote radio head ("RRH") (Model ALU RRH2x40-AWS)

concealed within a two-foot diameter unipole tower install on the roof of the building. The unipole tower will be disguised as an exhaust stack, and painted to match the existing exhaust stack on the roof of the building. The new unipole would extend approximately fourteen (14) feet above the existing roof, twelve (12) feet above the existing parapet wall. Equipment associated with the Bristol SC1 Facility will be located inside the small cabinet, mounted to the wall of the building in the southeasterly portion of the Property. Power and telephone service to the Bristol SC1 Facility equipment will extend from existing service inside the building. (See Project Plans included in Attachment 3). Specifications for the small cell antenna and RRH 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 unipole tower, disguised as an exhaust stack and a small equipment cabinet attached to the rear wall of the existing commercial building, will not involve a significant alteration in the physical and environmental characteristics of the Property.

2. Visual Effects

The visibility of the proposed roof-top unipole tower disguised as an exhaust stack at the Property would be limited primarily to locations within a few hundred feet to the north and east of the Property. The unipole would not be visible from residential areas to the south due to intervening trees and structures. (See Limited Visual Assessment and Photographic Simulations included in Attachment 5). By concealing the antenna and RRH inside a unipole structure and installing an equipment cabinet on the rear wall of the building no facility equipment will be visible from the area around the Property. The facility will not, therefore, adversely impact existing views.

3. FCC Compliance

Worst-case radio frequency (“RF”) emissions from the proposed small cell installation will be 15.44% of the standard adopted by the Federal Communications Commission (“FCC”). Included in Attachment 6 is a worst-case MPE calculation for the proposed Bristol SC1 Facility.

4. FAA Summary Report

Included in Attachment 7 is a Federal Airways & Airspace Summary Report verifying that the new unipole tower on the roof of the commercial (retail) 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 Mayor, Property Owner and Abutting Landowners

On March 3, 2015, a copy of this Petition was sent to Bristol’s Mayor Kenneth B. Cockayne. A copy of the Petition was also sent to the Property Owner. Included in Attachment 8 are copies of the letters sent to Mr. Cockayne and the Property Owner.

Notice of Cellco's intent to file this Petition along with a copy of the project plans and aerial photograph 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 this 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 unipole tower on the roof of the building at the Property disguised as an exhaust stack and attaching an equipment cabinet on the rear wall of the building, 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.

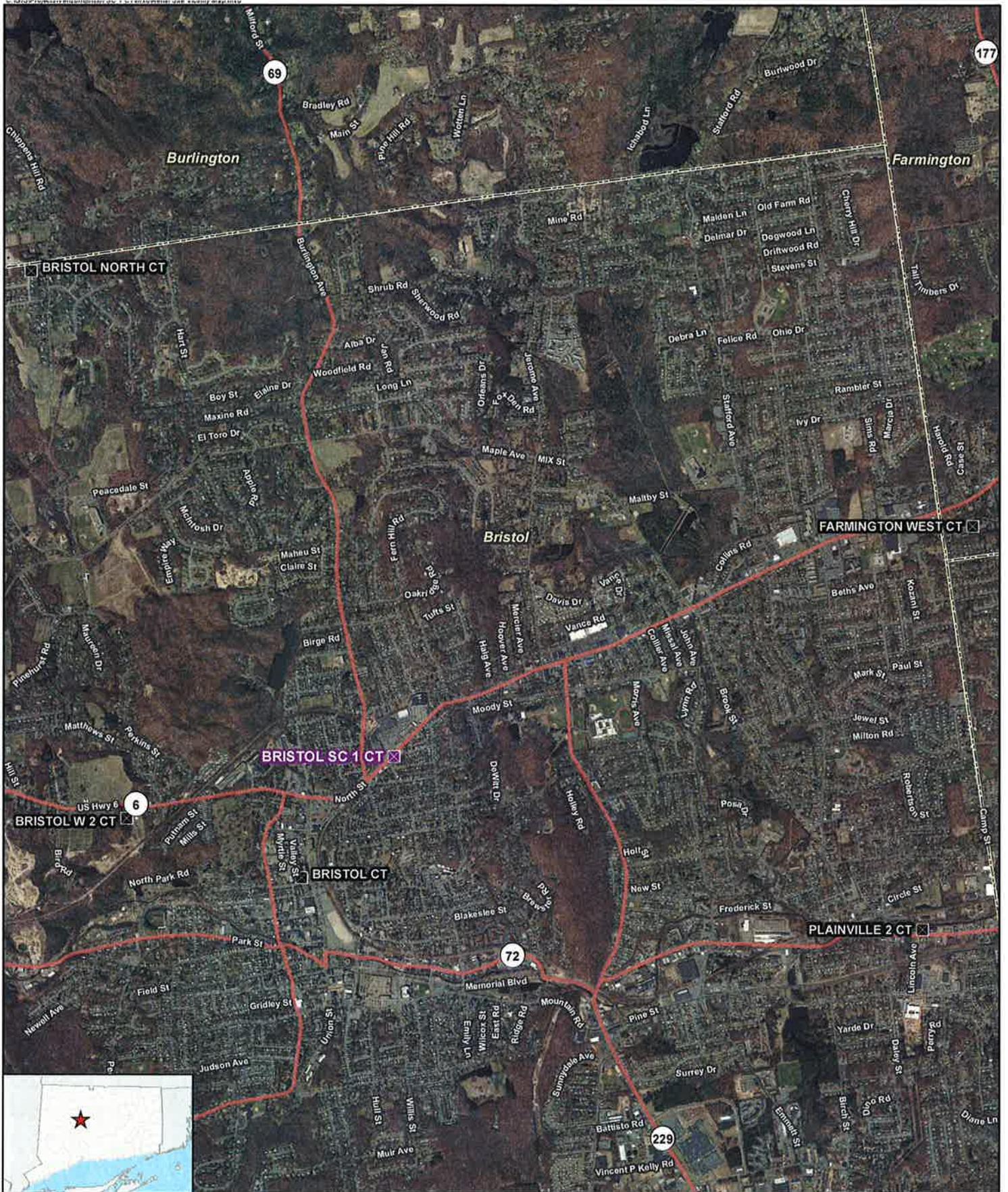
Respectfully submitted,

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

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

Site Vicinity Map

Proposed Small Cell Installation
 Bristol SC 1 CT
 84 Farmington Ave
 Bristol, Connecticut





Proposed Antenna and Appurtenances Mounted within Proposed RF Transparent Exhaust Stack

Source: Esri, DigitalGlobe, GeoEye, Earthstar (USA), USGS, AeroGRID, IGN, IGP, swisstopo, and the GIS User Community

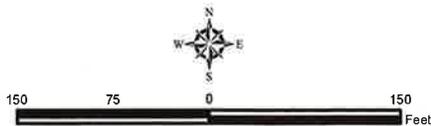
Legend

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

Site Schematic

Proposed Small Cell Installation
 Bristol SC 1 CT
 84 Farmington Ave
 Bristol, Connecticut

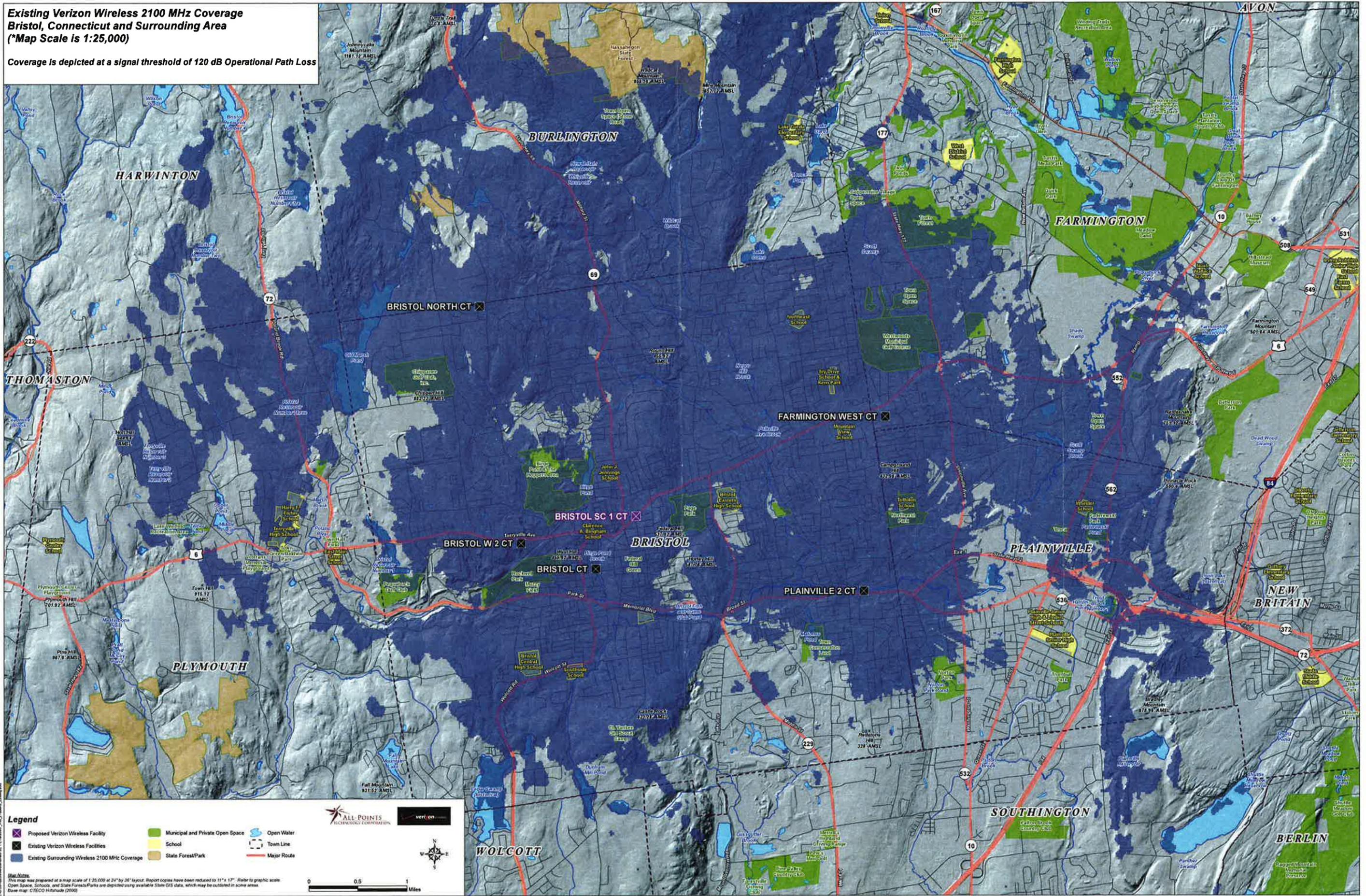
Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 150 feet
 Map Date: January 2015



ATTACHMENT 2

**Existing Verizon Wireless 2100 MHz Coverage
Bristol, Connecticut and Surrounding Area
(*Map Scale is 1:25,000)**

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



Legend

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

Map Notes:
This map was prepared at a map scale of 1:25,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale. Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas. Base map: CTECO Hiltube (2009)

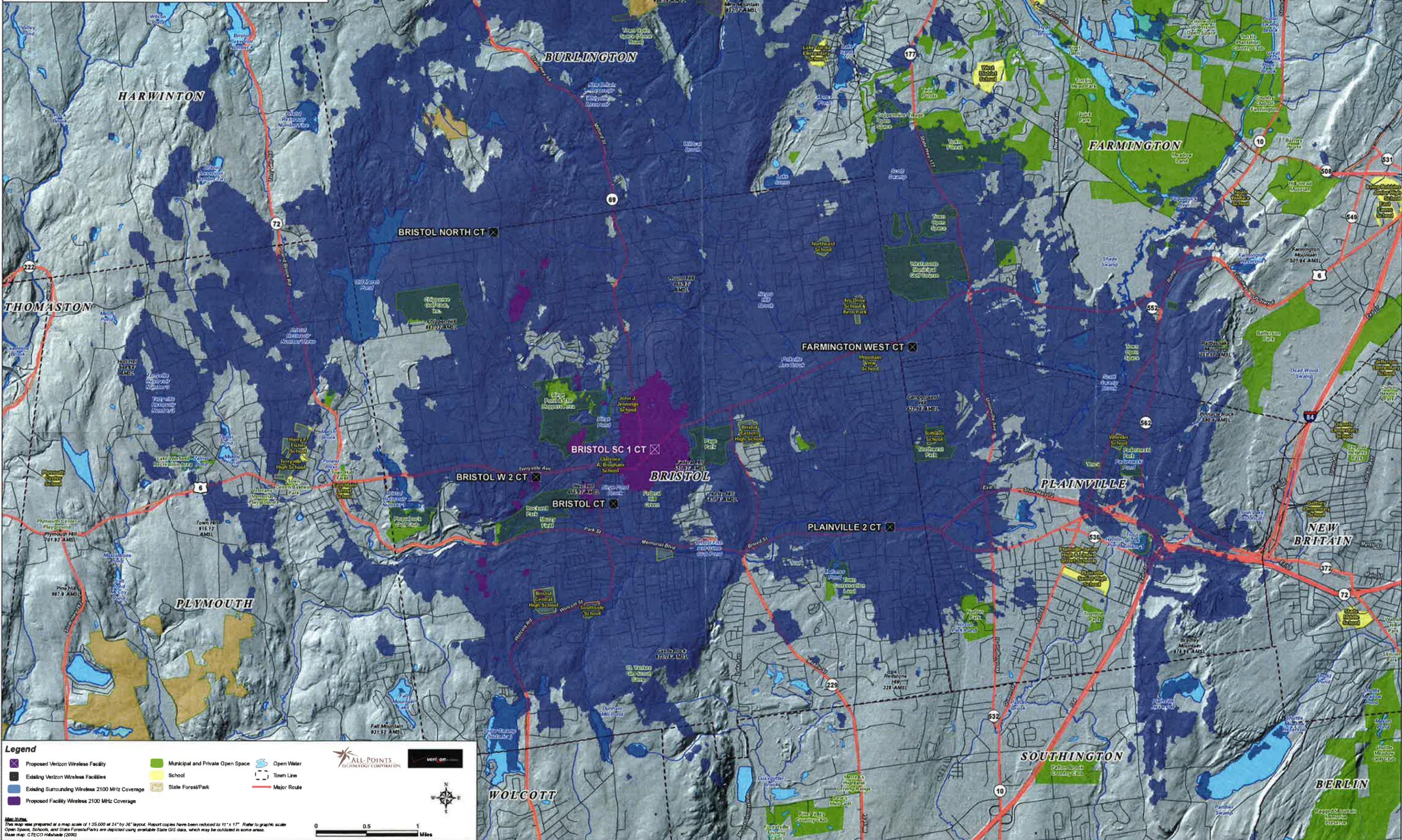
0 0.5 1 Miles

ALL POINTS TECHNOLOGY CORPORATION

verizon

**Proposed Verizon Wireless 2100 MHz Coverage
Bristol, Connecticut and Surrounding Area
(*Map Scale is 1:25,000)**

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



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

ALL POINTS TECHNOLOGY CORPORATION

verizon

Map Notes:
This map was prepared at a map scale of 1:25,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale. Open Spaces, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas. Base map: © TECO Hillsdale (2009)

ATTACHMENT 3

Cellco Partnership

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

WIRELESS COMMUNICATIONS FACILITY

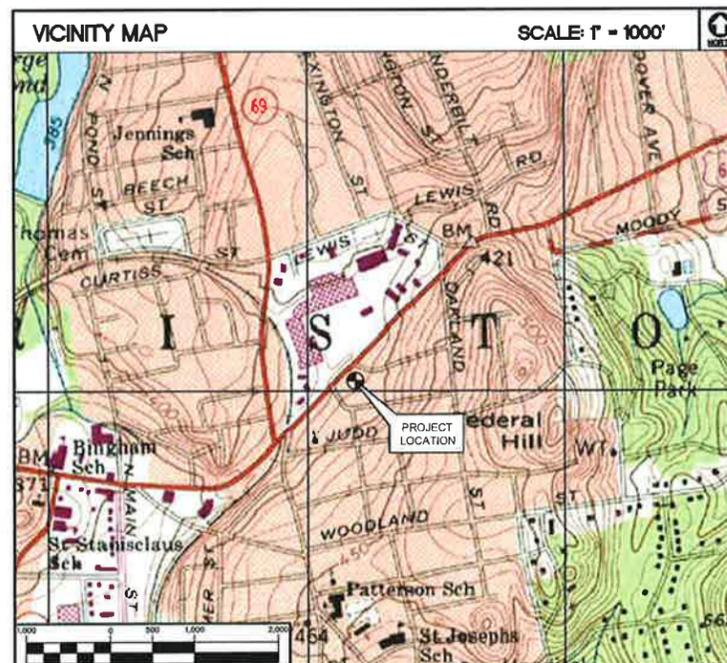
BRISTOL SC 1

84 FARMINGTON AVENUE
BRISTOL, CT 06010

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: 84 FARMINGTON AVENUE BRISTOL, CT 06010
1. Head northeast on E River Dr toward Darlin St	0.3 mi
2. Turn left to stay on E River Dr	354 ft
3. Take the 1st left onto Connecticut Blvd	0.2 mi
4. Turn left onto the Route 84 W ramp to Hartford/Route 91	482 ft
5. Merge onto I-84	8.6 mi
6. Take exit 3B for US-6 W toward Bristol	0.3 mi
7. Continue onto US-6 W (signs for I-84/Bristol) Destination will be on the left	

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

PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A PROPOSED PROPOSED CELCO PARTNERSHIP EQUIPMENT CABINET WALL MOUNTED AT GRADE.
2. A TOTAL OF ONE (1) OMNI DIRECTIONAL ANTENNA IS PROPOSED TO BE MOUNTED WITHIN PROPOSED CELCO PARTNERSHIP RF TRANSPARENT EXHAUST STACK. PROPOSED ANTENNA CENTERLINE ELEVATION AT 26.05' A.G.L.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED FROM PROPOSED ELECTRICAL AND TELCO DEMARCS UP TO PROPOSED ROOF MOUNTED EQUIPMENT CABINET.
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:	BRISTOL SC 1
SITE ADDRESS:	84 FARMINGTON AVENUE BRISTOL, CT 06010
LESSEE/TENANT:	PROPOSED CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER PROPOSED CELCO PARTNERSHIP (860) 803-8219
SITE COORDINATES:	LATITUDE: 41°-41'-02.261"N LONGITUDE: 72°-56'-23.161"W GROUND ELEVATION: ±385.4' AMSL
	COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED JANUARY 15, 2015.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	4
C-1	ABUTTERS MAP	4
C-2	ROOF PLAN, ELEVATION AND ANTENNA CONFIG.	4

PROFESSIONAL ENGINEER SEAL	ISSUED FOR CSC - REVISED EASTO STACK DIAMETER			
	ISSUED FOR CSC			
	ISSUED FOR CSC			
	CSC - REVISED EQUIPMENT CABINET LOCATION			
	ISSUED FOR CSC-CLIENT REVIEW			
	ISSUED FOR CSC-CLIENT REVIEW			
REV.	DATE	DRAWN BY	CHKD BY	DESCRIPTION
4	03/02/15	DMD		
3	02/27/15	DRA		
2	02/26/15	DRA		
1	01/28/15	DRA		
0	01/28/15	DRA		

Cellco Partnership
d.b.a. verizon wireless

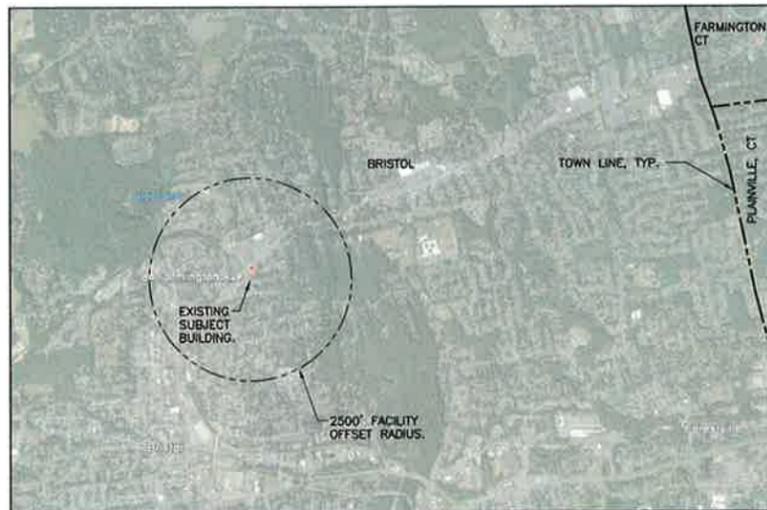
CENTEK engineering
Continued on building™
203 488-0380
203 488-6387 Fax
65-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
BRISTOL SC 1
84 FARMINGTON AVE
BRISTOL, CT 06010

DATE: 01/22/15
SCALE: AS NOTED
JOB NO. 14211.000

TITLE SHEET

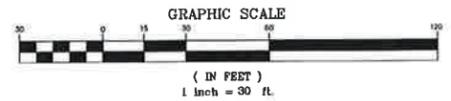
T-1
Sheet No. 1 of 3



MUNICIPALITY NOTIFICATION LIMIT MAP



1 ABUTTERS MAP
C-1 SCALE: 1" = 30'



REV.	DATE	DESCRIPTION
4	03/02/15	DMD CFC ISSUED FOR CSC - REVISED EXIST'G STACK DIAMETER
3	02/27/15	DRA DMD ISSUED FOR CSC
2	02/26/15	DRA DMD CSC - REVISED EQUIPMENT CABINET LOCATION
1	01/28/15	DRA DMD ISSUED FOR CSC-CLIENT REVIEW
0	01/28/15	DRA DMD ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Calico Partnership
d.b.a. Verizon Wireless

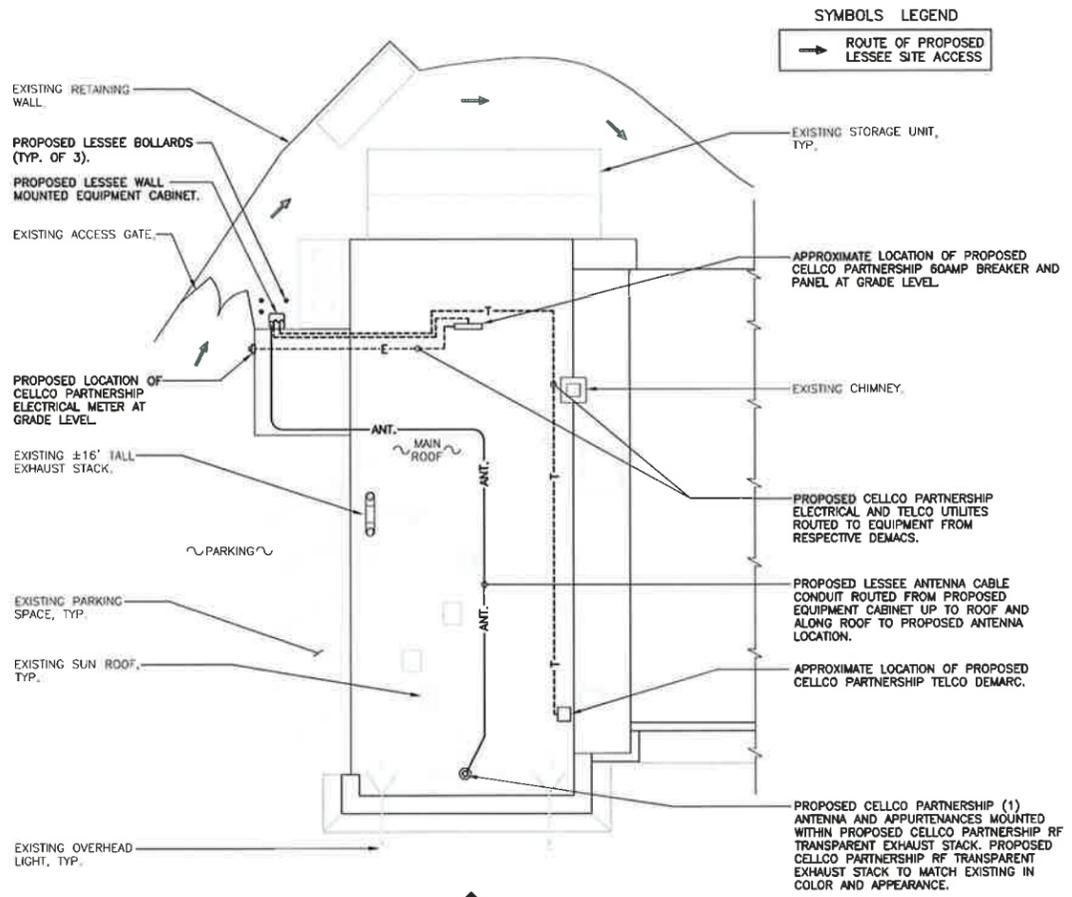
CENTEK
Engineering
[203] 489-0680
[203] 489-8987 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
BRISTOL SC 1
84 FARMINGTON AVE
BRISTOL, CT 06010

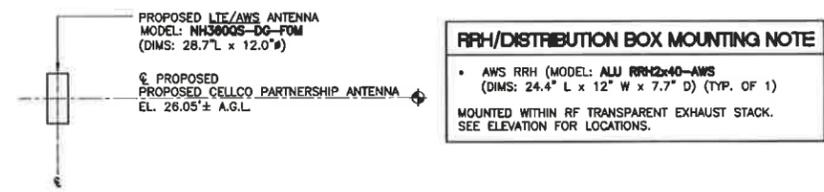
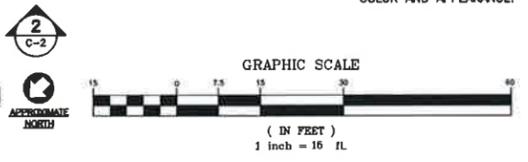
DATE: 01/22/15
SCALE: AS NOTED
JOB NO. 14211.000

ABUTTERS MAP

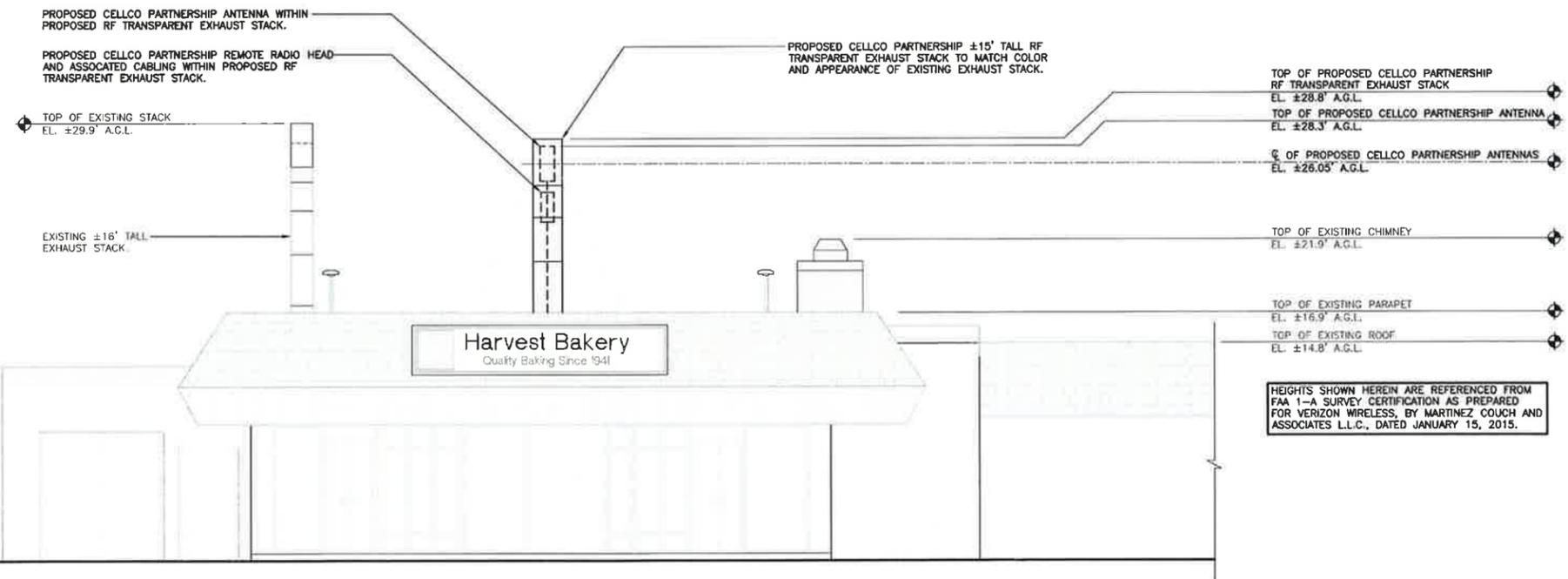
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Sheet No. 2 of 3



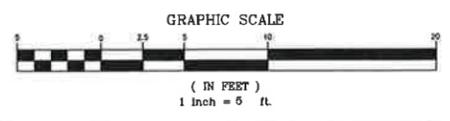
1 PARTIAL SITE/ROOF PLAN
 C-2 SCALE: 1" = 15'



3 TYP. ANTENNA MOUNTING CONFIGURATION
 C-2 NOT TO SCALE



2 PARTIAL NORTHWEST ELEVATION
 C-2 SCALE: 1" = 5'



PROFESSIONAL ENGINEER SEAL

REV.	DATE	DRWN BY	CHK'D BY	DESCRIPTION
4	03/09/15	BMD	CFC	ISSUED FOR CSC - REVISED EXIST'G STACK DIAMETER
3	03/27/15	BNA	BNA	ISSUED FOR CSC - EQUIPMENT CABINET LOCATION.
2	03/27/15	BNA	BNA	ISSUED FOR CSC - EQUIPMENT CABINET LOCATION.
1	01/22/15	BNA	BNA	ISSUED FOR CSC - CLIENT REVIEW
0	01/22/15	BNA	BNA	ISSUED FOR CSC - CLIENT REVIEW

Cellco Partnership
 d.b.a. Verizon Wireless

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 Central in Solutions
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 65-2 North Branford Road
 Branford, CT 06405
 www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
 WIRELESS COMMUNICATIONS FACILITY
BRISTOL SC 1
 84 FARMINGTON AVE.
 BRISTOL, CT 06010

DATE: 01/22/15
 SCALE: AS NOTED
 JOB NO. 14211.000

ROOF PLAN
 ELEVATION &
 ANTENNA CONFIG.

C-2
 Sheet No. 3 of 3

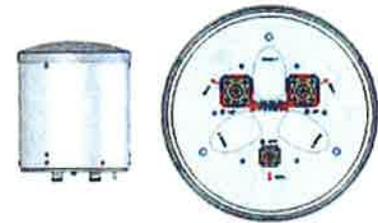
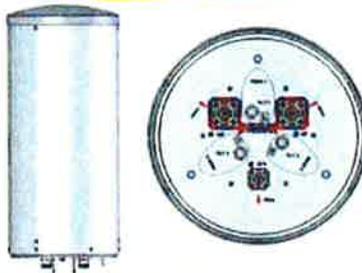
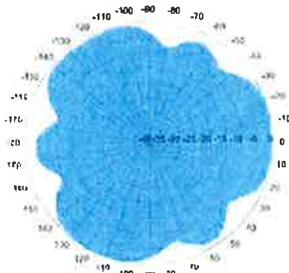
ATTACHMENT 4

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										
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
USIS, 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	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
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)

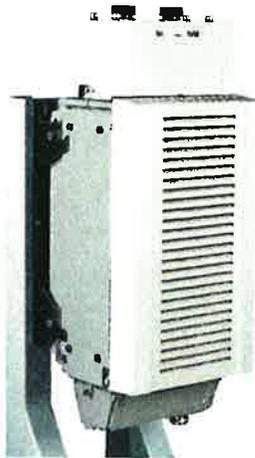
AVAILABILITY

Expected Ready Date for Manufacturing	March 2014	June 2014
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Alcatel-Lucent RRH2x40-AWS

REMOTE RADIO HEAD

The Alcatel-Lucent RRH2x40-AWS is a high-power, small form-factor Remote Radio Head (RRH) operating in the AWS frequency band (1700/2100MHz - 3GPP Band 4). The Alcatel-Lucent RRH2x40-AWS is designed with an eco-efficient approach, providing operators with the means to achieve high quality and capacity coverage with minimum site requirements.



A distributed eNodeB expands deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of an eNodeB to be installed separately, within the same site or several kilometres apart.

The Alcatel-Lucent RRH2x40-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information. The Alcatel-Lucent RRH2x40-AWS has two transmit RF paths, 40 W RF output power per transmit path, and is designed to manage up to four-way receive diversity. The device is ideally suited to support macro coverage, with multiple-input multiple-output (MIMO) 2x2 operation in up to 20 MHz of bandwidth.

The Alcatel-Lucent RRH2x40-AWS is designed to make available all the benefits of a distributed eNodeB, with excellent RF characteristics, with low

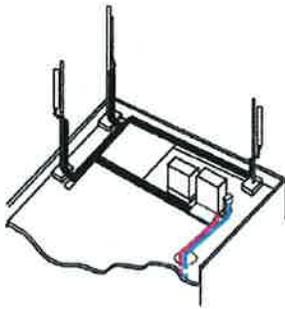
capital expenditures (CAPEX) and low operating expenditures (OPEX). The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment or require costly cranes to be employed, leaving coverage holes. However, many of these sites can host an Alcatel-Lucent RRH2x40-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

Fast, low-cost installation and deployment

The Alcatel-Lucent RRH2x40-AWS is a zero-footprint solution and operates noise-free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH2x40-AWS is compact and weighs less than 20 kg (44 lb), eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day — a fraction of the time required for a traditional BTS.

Excellent RF performance

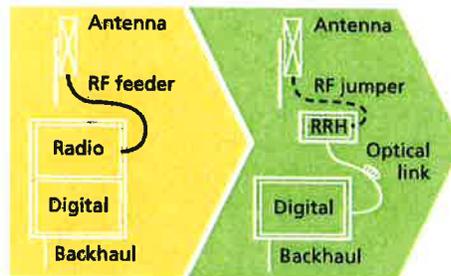
Because of its small size and weight, the Alcatel-Lucent RRH2x40-AWS can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH2x40-AWS where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder cost and installation costs are reduced or eliminated, and there is no need for a Tower Mounted Amplifier (TMA) because losses introduced by the RF feeder are greatly reduced. The Alcatel-Lucent RRH2x40-AWS provides more RF power while at the same time consuming less electricity.



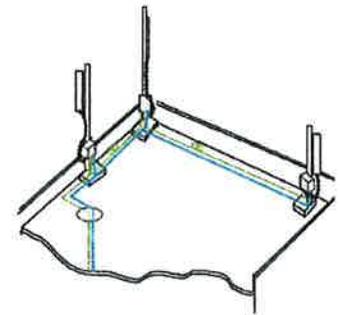
Macro

Features

- Zero-footprint deployment
- Easy installation, with a lightweight unit can be carried and set up by one person
- Optimized RF power, with flexible site selection and elimination of a TMA
- Convection-cooled (fanless)
- Noise-free
- Best-in-class power efficiency, with significantly reduced energy consumption



RRH for space-constrained cell sites



Distributed

Benefits

- Leverages existing real estate with lower site costs
- Reduces installation costs, with fewer installation materials and simplified logistics
- Decreases power costs and minimizes environmental impacts, with the potential for eco-sustainable power options
- Improves RF performance and adds flexibility to network planning

Technical specifications

Physical dimensions

- Height: 620 mm (24.4 in.)
- Width: 270 mm (10.63 in.)
- Depth: 170mm (6.7 in.)
- Weight (without mounting kit): less than 20 kg (44 lb)

Power

- Power supply: -48VDC

Operating environment

- Outdoor temperature range:
 - With solar load: -40°C to +50°C (-40°F to +122°F)
 - Without solar load: -40°C to +55°C (-40°F to +131°F)

- Passive convection cooling (no fans)
- Enclosure protection
 - IP65 (International Protection rating)

RF characteristics

- Frequency band: 1700/2100 MHz (AWS); 3GPP Band 4
- Bandwidth: up to 20 MHz
- RF output power at antenna port: 40 W nominal RF power for each Tx port
- Rx diversity: 2-way or 4-way with optional Rx Diversity module
- Noise figure: below 2.0 dB typical
- Antenna Line Device features
 - TMA and Remote electrical tilt (RET) support via AISG v2.0

Optical characteristics

Type/number of fibers

- Single-mode variant
 - One Single Mode Single Fiber per RRH2x, carrying UL and DL using CWDM
 - Single mode dual fiber (SM/DF)
- Multi-mode variant
 - Two Multi-mode fibers per RRH2x: one carrying UL, the other carrying DL

Optical fiber length

- Up to 500 m (0.31 mi), using MM fiber
- Up to 20 km (12.43 mi), using SM fiber

Digital Ports and Alarms

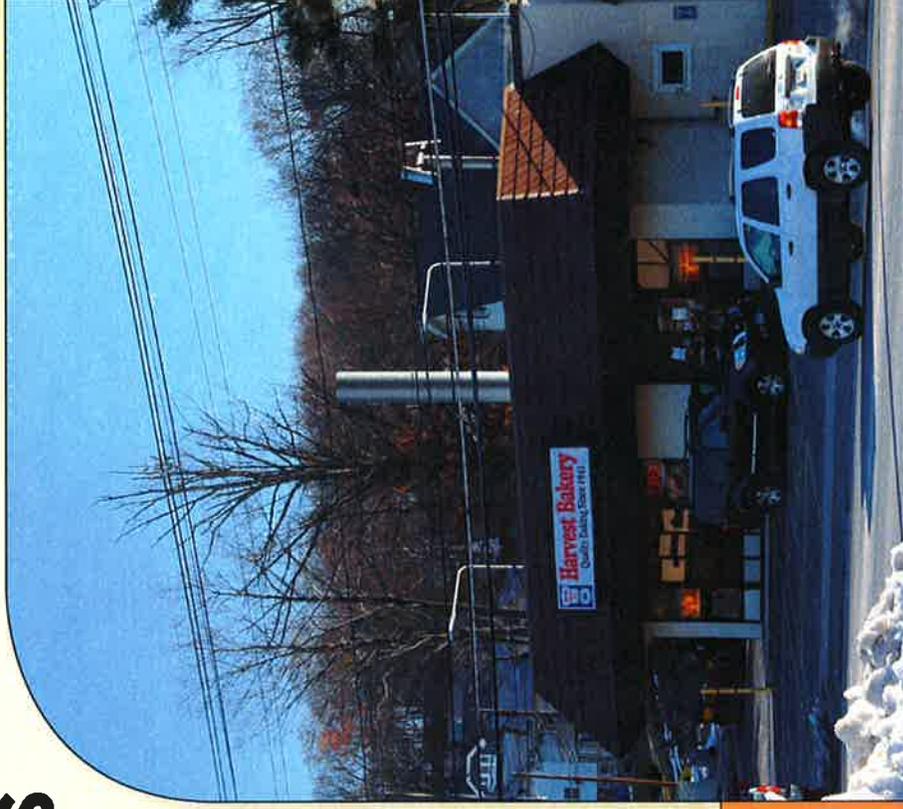
- Two optical ports to support daisy-chaining
- Six external alarms

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 © 2010 Alcatel-Lucent. All rights reserved. CPG2809100912 (09)

ATTACHMENT 5

Photographic Documentation & Simulations

BRISTOL SC1
84 FARMINGTON AVENUE
BRISTOL, CT 06010



Prepared in February 2015 by:
APT Engineering
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 installation of a small cell wireless telecommunications Facility at 84 Farmington Avenue in Bristol, Connecticut (the "Property").

Project Setting

The Property is located on the south side of Farmington Avenue in a commercial area. The Property is currently developed with a single-story, multi-unit commercial strip mall. The portion of the subject building proposed for the installation is currently occupied by Harvest Bakery. The proposed Facility would include the installation of a single bi-directional antenna (concealed within an RF-transparent cylinder designed to resemble an exhaust pipe or smokestack) mounted on the building's rooftop, such that it would extend approximately 15 feet above the roof (and about 12 feet above the top of an existing parapet located on the building's west side). Associated equipment would be located to the rear of the building.

Methodology

On January 20, 2015, APT personnel conducted field reconnaissance and photo-documented existing conditions. Three (3) nearby locations were selected to depict existing and proposed conditions with the new installation. 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 the lens set to 50 mm.

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

Three-dimensional computer models were developed for the building and proposed small cell 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. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

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

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

Conclusions

The visibility of the proposed installation would be limited primarily to locations north and east of the Property within the immediate area (a few hundred feet). The majority of views would be attainable from the large parking lot associated with the commercial plaza located across Farmington Avenue. The proposed installation would not be visible from most locations to the south due to intervening vegetation and structures. The small cell's concealment within a cylindrical faux exhaust pipe results in no external antenna or supporting equipment being visible from the ground. Multiple existing mechanical components are located on the building rooftop, including a 16± foot tall exhaust stack similar to the proposed installation. In addition, substantial utility infrastructure exists throughout the general area and within the view scape of the proposed installation. Based on the results of this assessment, it is our opinion that the proposed installation of Verizon Wireless equipment at the Property would have little to no adverse effect on existing views.

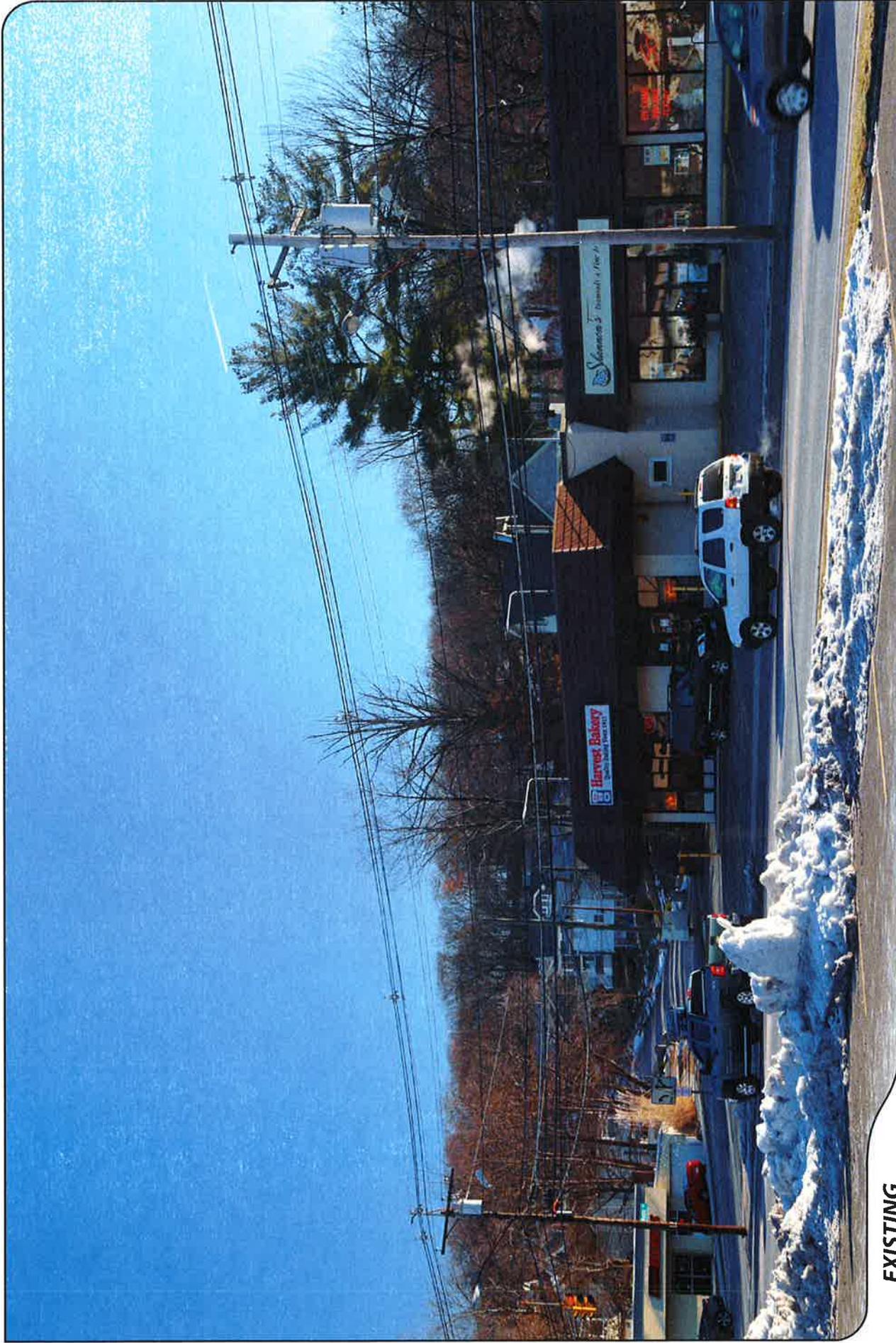
ATTACHMENTS



PHOTO LOG

- Legend
- Site
 - Photo Location





EXISTING

PHOTO

1

LOCATION

BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE

ORIENTATION

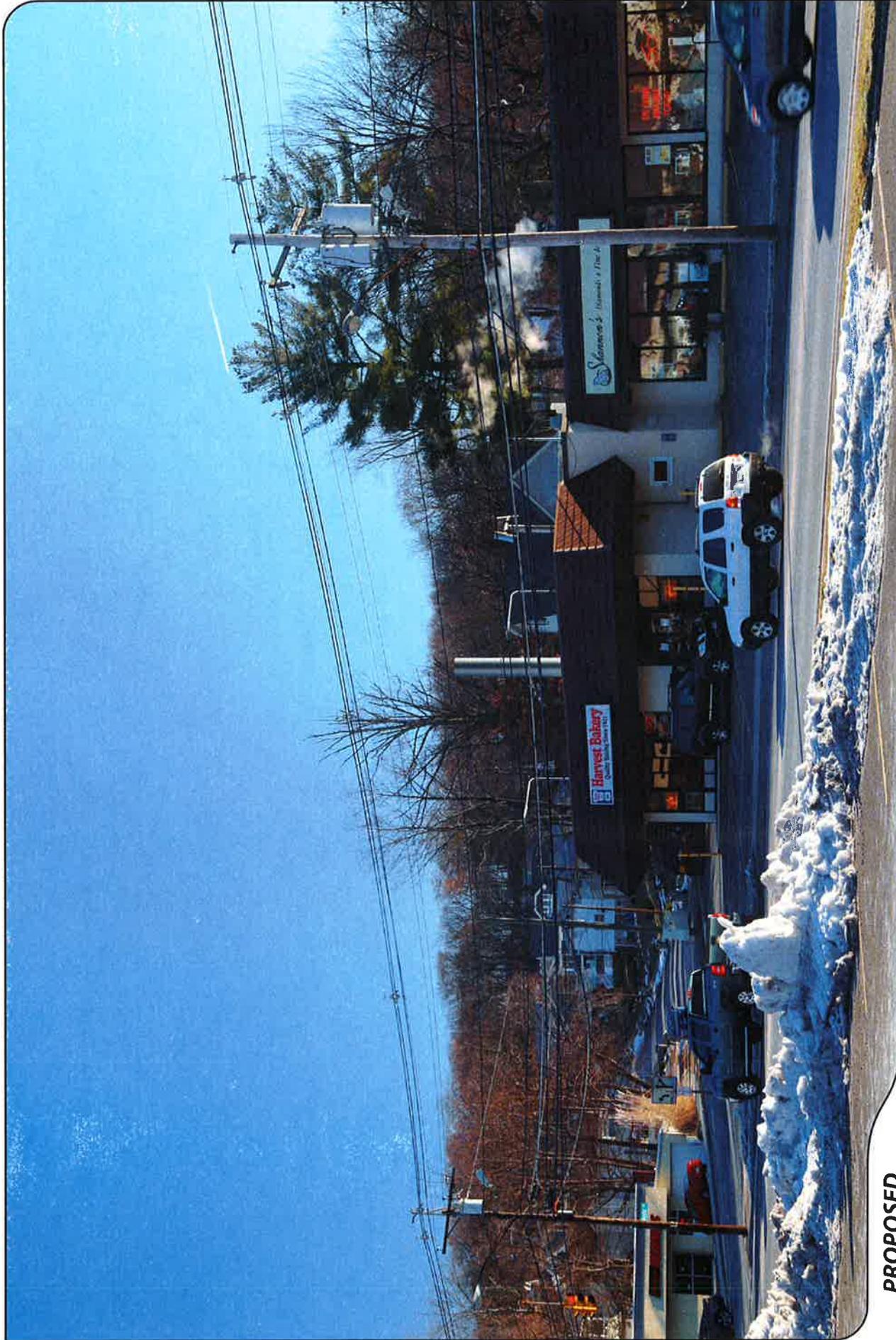
EAST

DISTANCE TO SITE

+/- 217 FEET

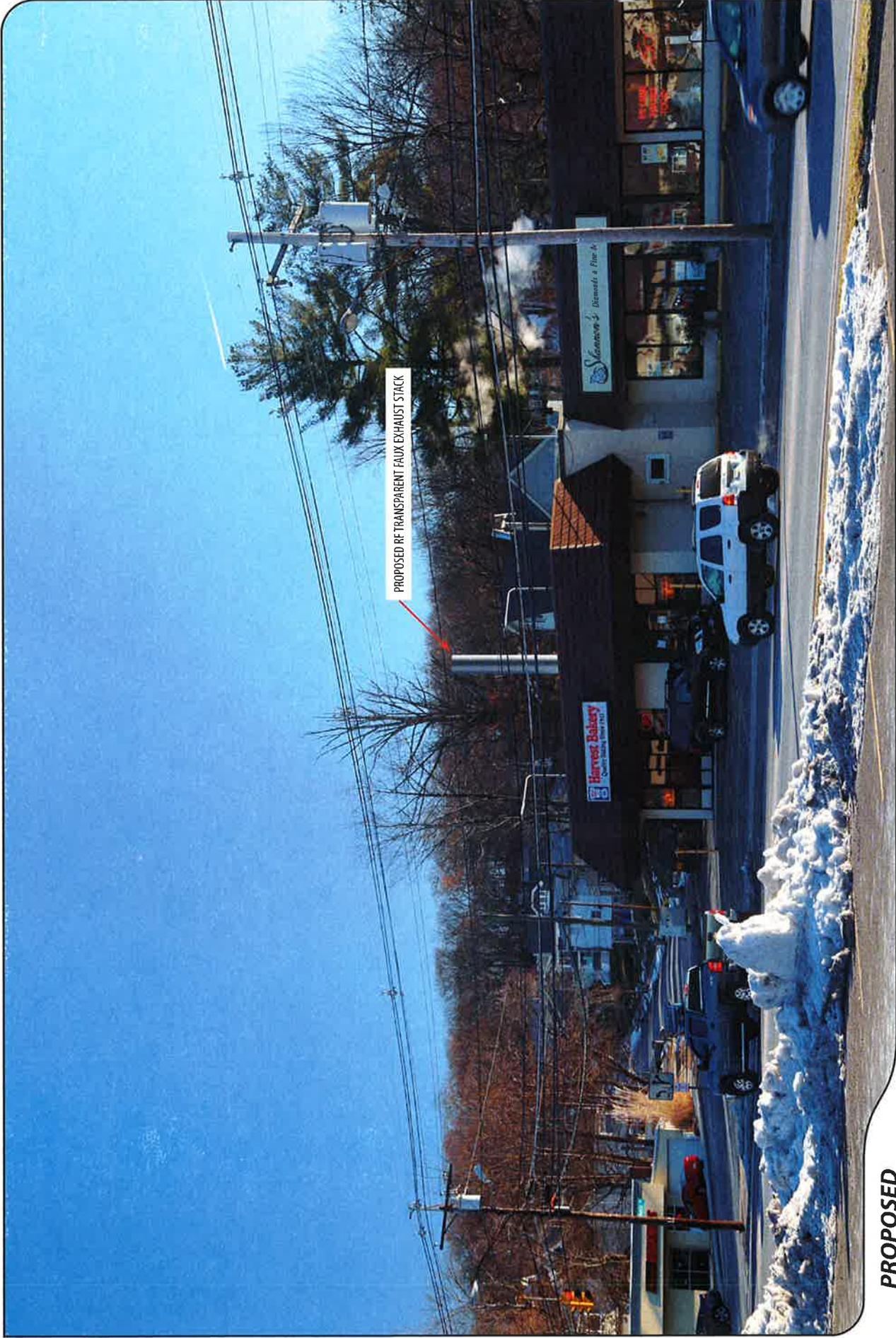
VISIBILITY

YEAR ROUND



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
1	BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE	EAST	+/- 217 FEET	YEAR ROUND



PROPOSED RE-TRANSPARENT FAUX EXHAUST STACK

PROPOSED

PHOTO

1

LOCATION

BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE

ORIENTATION

EAST

DISTANCE TO SITE

+/- 217 FEET

VISIBILITY

YEAR ROUND



EXISTING

PHOTO

2

LOCATION

BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 267 FEET

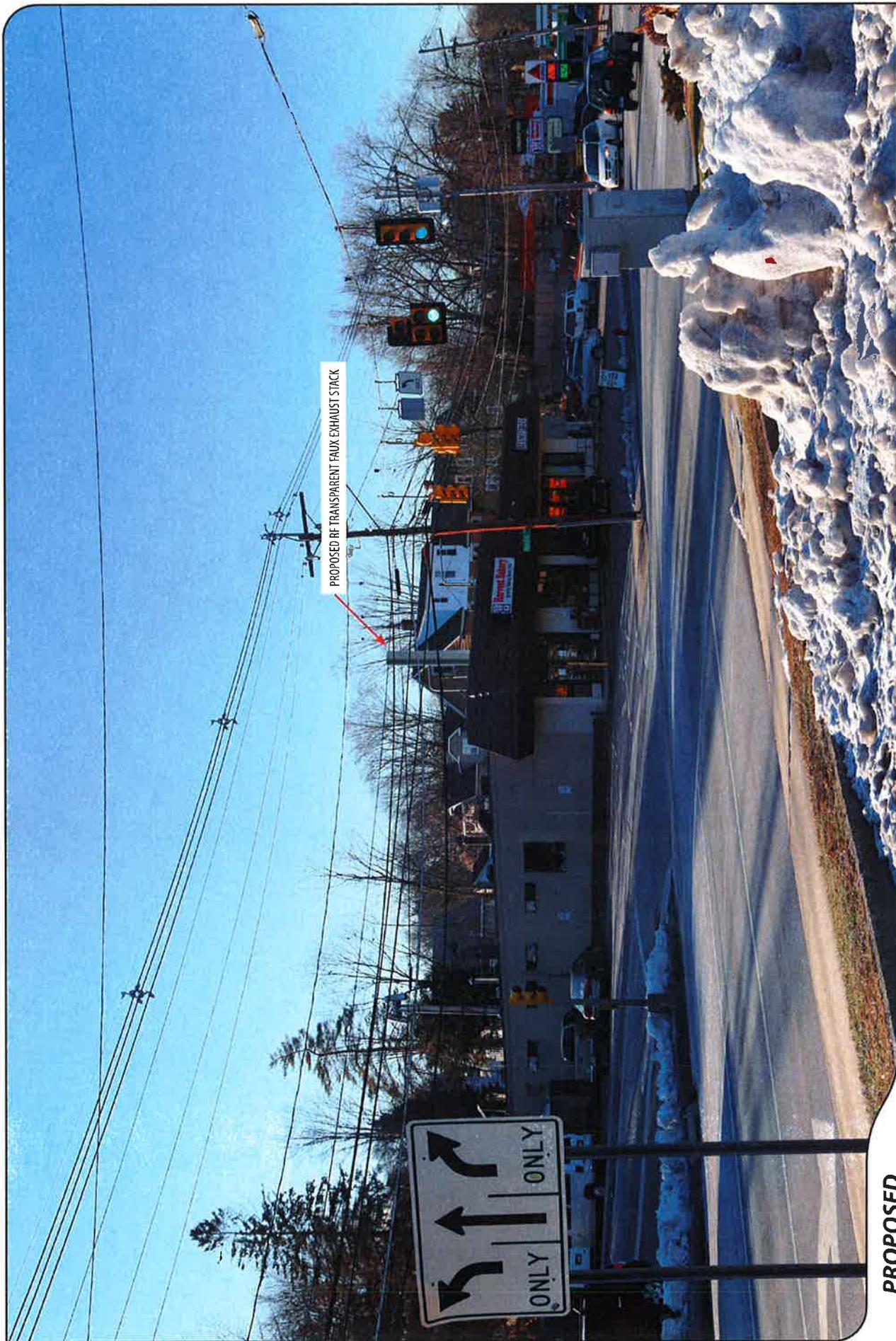
VISIBILITY

YEAR ROUND



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
2	BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE	SOUTHWEST	+/- 267 FEET	YEAR ROUND



PROPOSED

PHOTO

2

LOCATION

BRISTOL COMMONS PARKING LOT - FARMINGTON AVENUE

ORIENTATION

SOUTHWEST

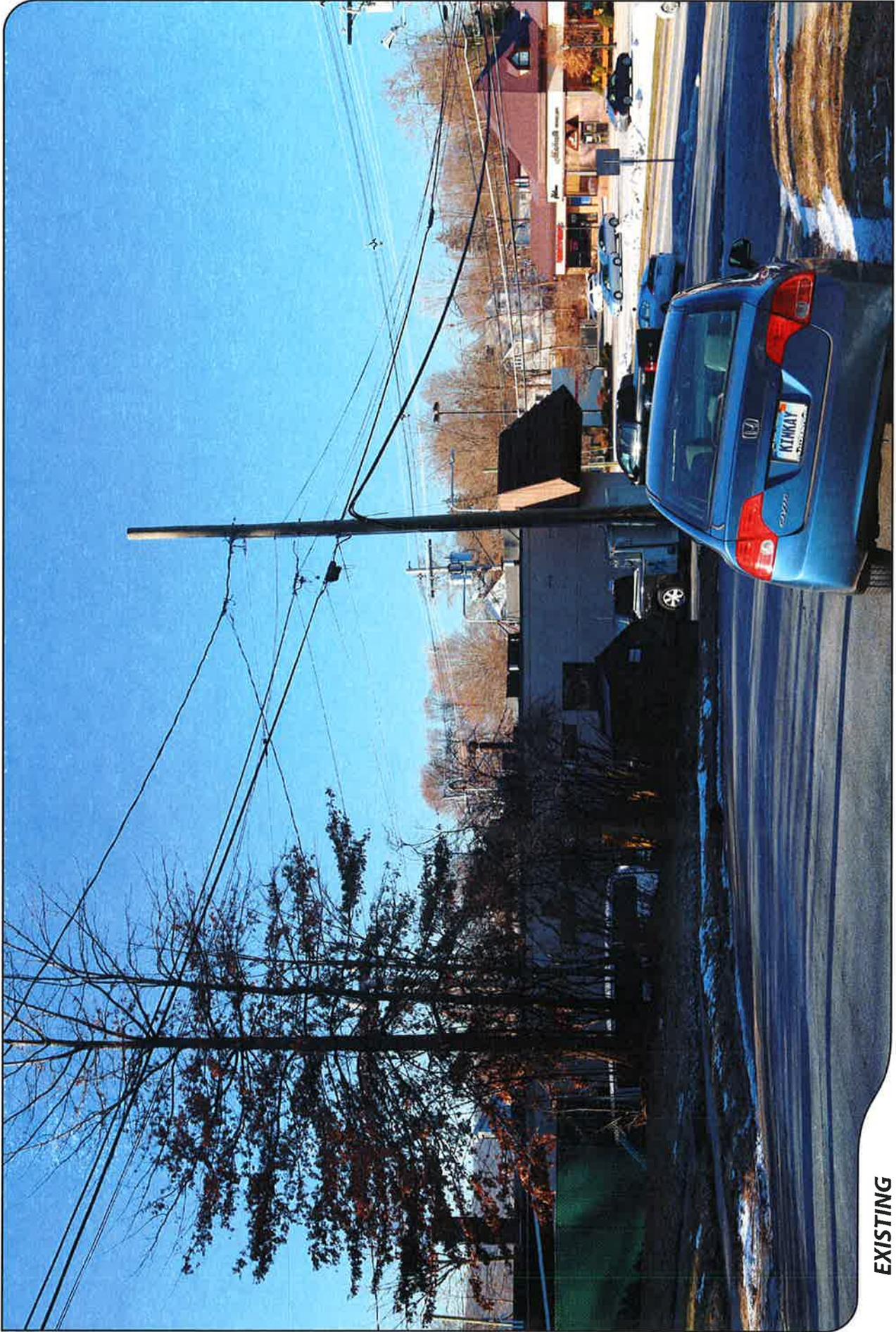
DISTANCE TO SITE

+/- 267 FEET

VISIBILITY

YEAR ROUND





EXISTING

PHOTO

3

LOCATION

RUSTIC TERRACE

ORIENTATION

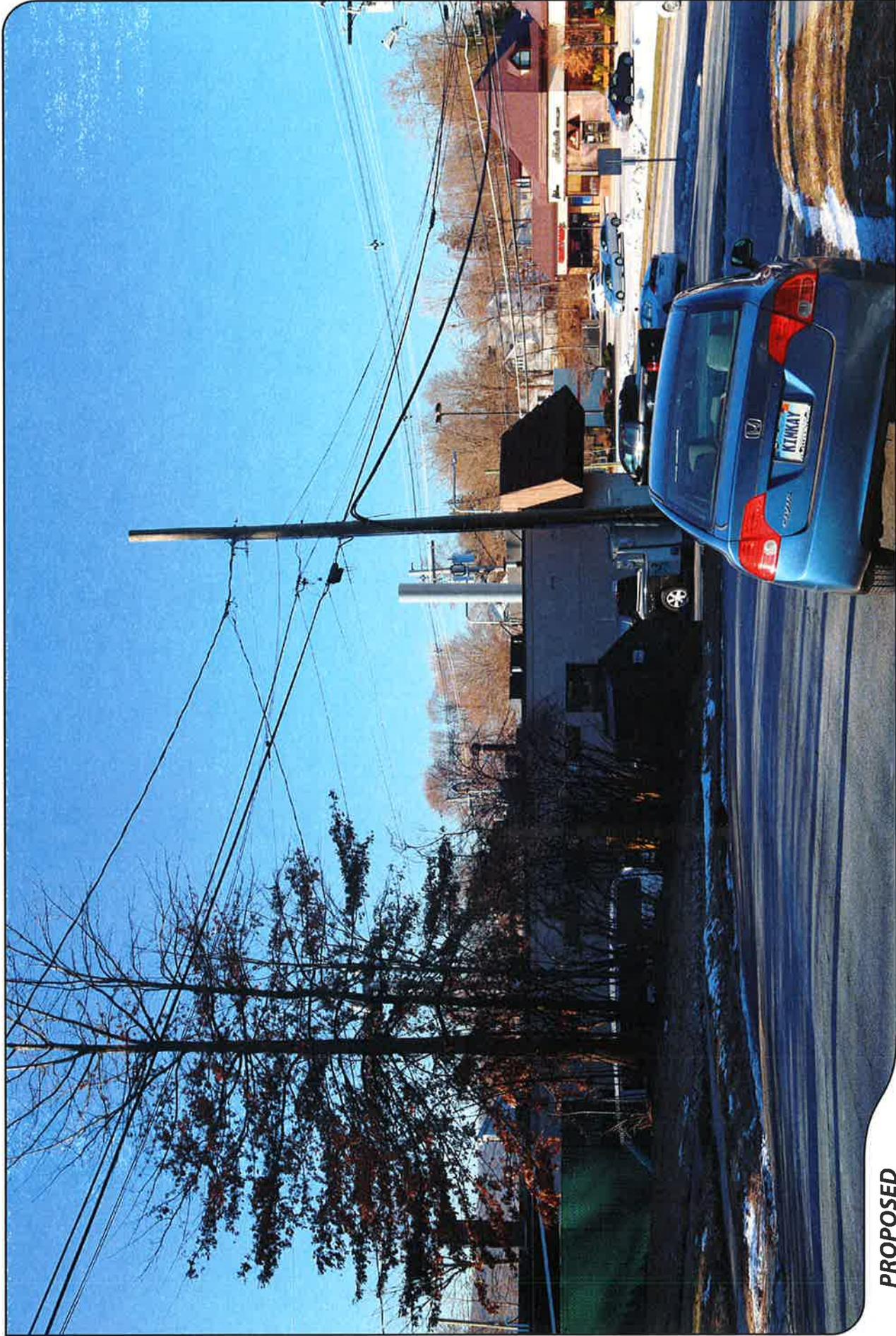
SOUTHWEST

DISTANCE TO SITE

+/- 197 FEET

VISIBILITY

YEAR ROUND



PROPOSED

PHOTO

3

LOCATION

RUSTIC TERRACE

ORIENTATION

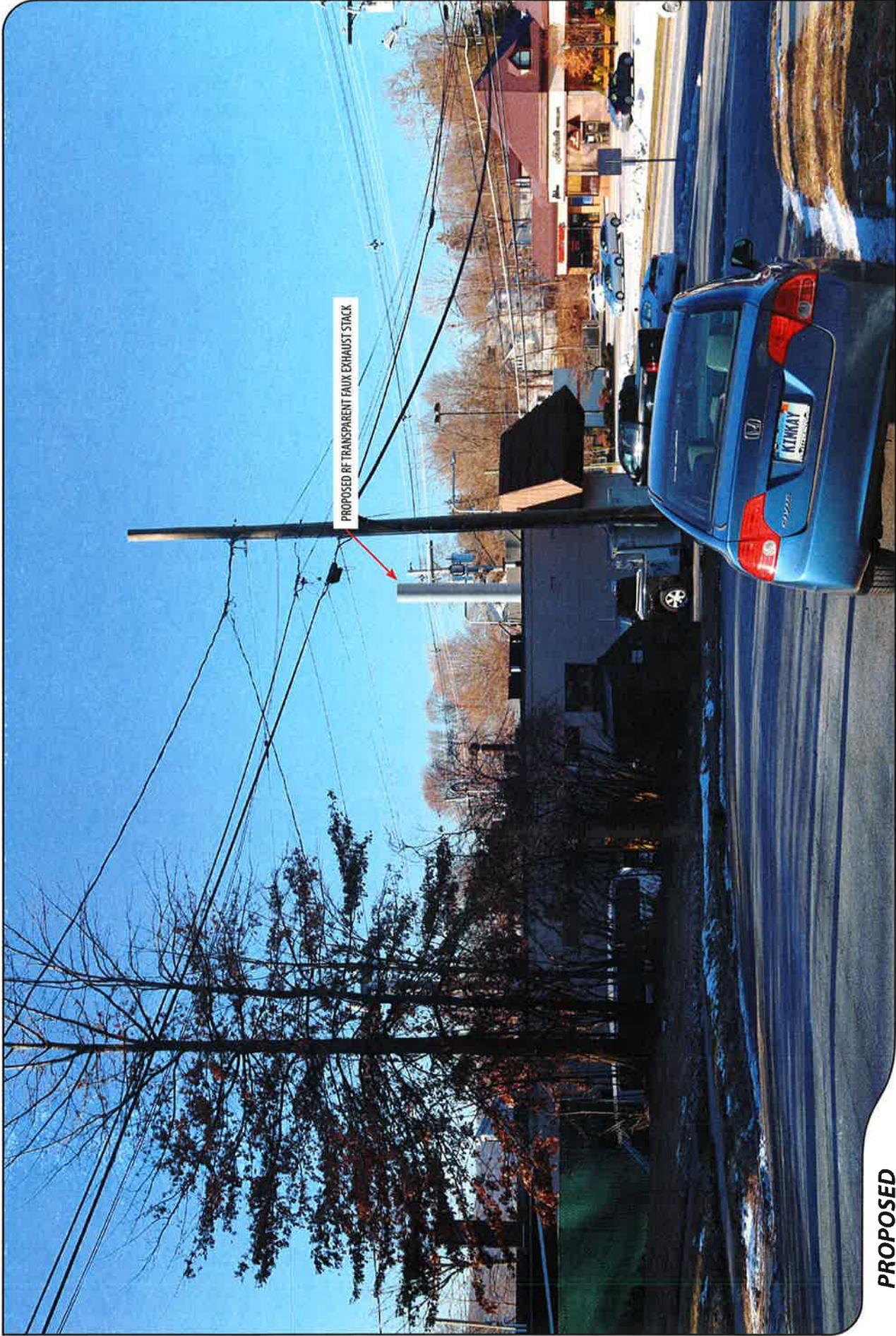
SOUTHWEST

DISTANCE TO SITE

+/- 197 FEET

VISIBILITY

YEAR ROUND



PROPOSED

PHOTO

3

LOCATION

RUSTIC TERRACE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 197 FEET

VISIBILITY

YEAR ROUND

ATTACHMENT 6

General Power Density

Site Name: Bristol SC 1, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW AWS	2145	1	320	320	27.3	0.1544	1.0	15.44%

Total Percentage of Maximum Permissible Exposure 15.44%

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

MHz = Megahertz
 mW/cm² = milliwatts per square centimeter
 ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 7

BRISTOL_SC_1_CT_AIRSPACE_REPORT.txt

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

Airspace User: Mark Brauer

File: BRISTOL_SC_1_CT

Location: Bristol, CT

Latitude: 41°-41'-2.31" Longitude: 72°-56'-23.33"

SITE ELEVATION AMSL.....380 ft.
STRUCTURE HEIGHT.....30 ft.
OVERALL HEIGHT AMSL.....410 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: 20349.07 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: 34309.67 RE: 849.3
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

BRISTOL_SC_1_CT_AIRSPACE_REPORT.txt

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
-------------------------	---------------------	----------------	------------------------	------------

CT03 HEL BRISTOL HOSPITAL No Impact to Private Landing Facility Below Notice Standards by: 112 feet.	161.17	.52	+4	
--	--------	-----	----	--

No Impact to Private Landing Facility
 No violation of Helicopter Approach Surface.
 Estimated safety margin is: 287 feet.

CT96 AIR GREEN ACRES No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport.	316.09	2.03	-540	
--	--------	------	------	--

CT60 HEL ULTIMATE No Impact to Private Landing Facility Structure is beyond notice limit by 8671 feet.	103.41	2.25	+157	
--	--------	------	------	--

CT73 HEL SOUTH MEADOWS No Impact to Private Landing Facility Structure is beyond notice limit by 21006 feet.	56.81	4.28	+210	
--	-------	------	------	--

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	82.47	20206	+150	CT PALINFIELD	.43
	HFD	VOR/DME	R	114.9	98.42	108358	-439	CT HARTFORD	-.23
	BDL	VORTAC	D	109.0	36.1	116034	+250	CT BRADLEY	.12
	BDL	RADAR	ON		37.01	116310	+174	CT BRADLEY INTL	.09

No Impact. This structure does not require Notice based upon EMI.
 The studied location is within 20 NM of a Radar facility.
 The calculated Radar Line-Of-Sight (LOS) distance is: 44 NM.
 This location and height is within the Radar Line-Of-Sight.

	MAD	VOR/DME	R	110.4	153.38	150972	+190	CT MADISON	.07
	HVN	VOR/DME	R	109.8	174.45	154373	+404	CT NEW HAVEN	.15
	PWL	VOR/DME	I	114.3	280.05	183053	-840	NY PAWLING	-.26
	BAF	VORTAC	R	113.0	19.19	184499	+143	MA BARNES	.04
	BDR	VOR/DME	R	108.8	194.81	197289	+401	CT BRIDGEPORT	.12

BRISTOL_SC_1_CT_AIRSPACE_REPORT.txt

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: WPRX @ 2939 meters.

Airspace® Summary Version 14.11.376

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Copyright © 1989 - 2014

01-05-2015
15:05:39

ATTACHMENT 8

March 3, 2015

Via Certified Mail, Return Receipt Requested

Kenneth B. Cockayne, Mayor
City of Bristol
111 North Main Street
Bristol, CT 06010

Re: **Proposed Installation of a “Small Cell” Telecommunications Facility at 84 Farmington Avenue, Bristol, Connecticut**

Dear Mr. Cockayne:

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 84 Farmington Avenue in Bristol (the “Property”). The “small cell” will consist of a single canister-type antenna and remote radio head (“RRH”) concealed within a unipole tower structure disguised as an exhaust stack, on the roof of the building. The unipole tower will extend approximately twelve (12) feet above the existing parapet wall. Equipment associated with the “small cell” will be attached to the rear wall of the building.

The “small cell” facility will provide improved wireless service to the Property and the surrounding commercial areas and capacity relief to several of Cellco’s existing cell sites in the area. 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 and an aerial photograph.

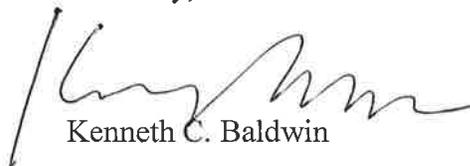
13394686-v1

Robinson+Cole

Kenneth B. Cockayne, Mayor
March 3, 2015
Page 2

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', written over a horizontal line.

Kenneth C. Baldwin

Attachment

Copy to:

Sandy M. Carter

March 3, 2015

Via Certified Mail, Return Receipt Requested

Martin Hurwitz
MCH Properties
84 Farmington Avenue
Bristol, CT 06010

Re: **Proposed Installation of a “Small Cell” Telecommunications Facility at 84 Farmington Avenue, Bristol, Connecticut**

Dear Mr. Hurwitz:

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 84 Farmington Avenue in Bristol (the “Property”). The “small cell” will consist of a single canister-type antenna and remote radio head (“RRH”) concealed within a unipole tower structure disguised as an exhaust stack, on the roof of the building. The unipole tower will extend approximately twelve (12) feet above the existing parapet wall. Equipment associated with the “small cell” will be attached to the rear wall of the building.

The “small cell” facility will provide improved wireless service to the Property and the surrounding commercial areas and capacity relief to several of Cellco’s existing cell sites in the area. 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 and an aerial photograph.

13394699-v1

Robinson+Cole

Martin Hurwitz
March 3, 2015
Page 2

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

Sincerely,



Kenneth C. Baldwin

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

March 3, 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 84 Farmington Avenue, Bristol, 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 84 Farmington Avenue in Bristol (the “Property”). The “small cell” will consist of a single canister-type antenna and remote radio head (“RRH”) concealed within a unipole tower structure disguised as an exhaust stack, on the roof of the building. The unipole tower will extend approximately twelve (12) feet above the existing parapet wall. Equipment associated with the “small cell” will be located inside the small cabinet attached to the rear wall of the commercial building on the Property. A copy of the project plans and aerial photograph of the Property are attached.

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.

Cellco Partnership



d.b.a. **verizon** wireless
WIRELESS COMMUNICATIONS FACILITY

BRISTOL SC 1
84 FARMINGTON AVENUE
BRISTOL, CT 06010

SITE DIRECTIONS

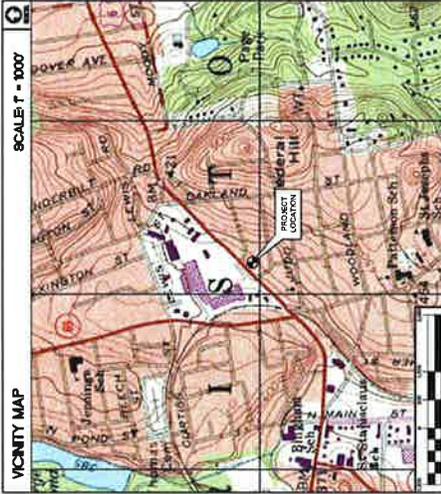
FROM	84 FARMINGTON AVENUE BRISTOL, CT 06010	TO	84 FARMINGTON AVENUE BRISTOL, CT 06010
1.	Head southwest on Farmington Avenue to proposed location.		0.3 MI
2.	Turn left to enter on Farmington Avenue.		350 FT
3.	Turn right onto the building.		450 FT
4.	Turn left onto the building.		450 FT
5.	Turn right onto the building.		450 FT
6.	Turn left onto the building.		450 FT
7.	Proposed location is marked on the map.		0.3 MI

GENERAL NOTES

- PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY PROPOSED CELLCO PARTNERSHIP.

PROJECT SCOPE

- THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A PROPOSED ROOF MOUNTED CELLULAR TRANSMISSION EQUIPMENT CABINET MOUNTED TO THE SUBJECT BUILDING.
- A TOTAL OF ONE (1) DOWN DIRECTIONAL ANTENNA IS PROPOSED TO BE MOUNTED WITHIN THE PROPOSED ANTENNA MOUNTING CABINET. PROPOSED ANTENNA CONTAINING ELEVATION AT 200.0 FT A.S.L.
- ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED FROM PROPOSED ELECTRICAL AND TELCO DRAINAGE UP TO PROPOSED ROOF MOUNTED EQUIPMENT CABINET.
- FINAL DESIGN FOR ANTENNA MOUNT SHALL BE INCLUDED IN THE SAME PLANS.
- THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2008 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2008 CONNECTICUT SUPPLEMENTS.



PROJECT SUMMARY

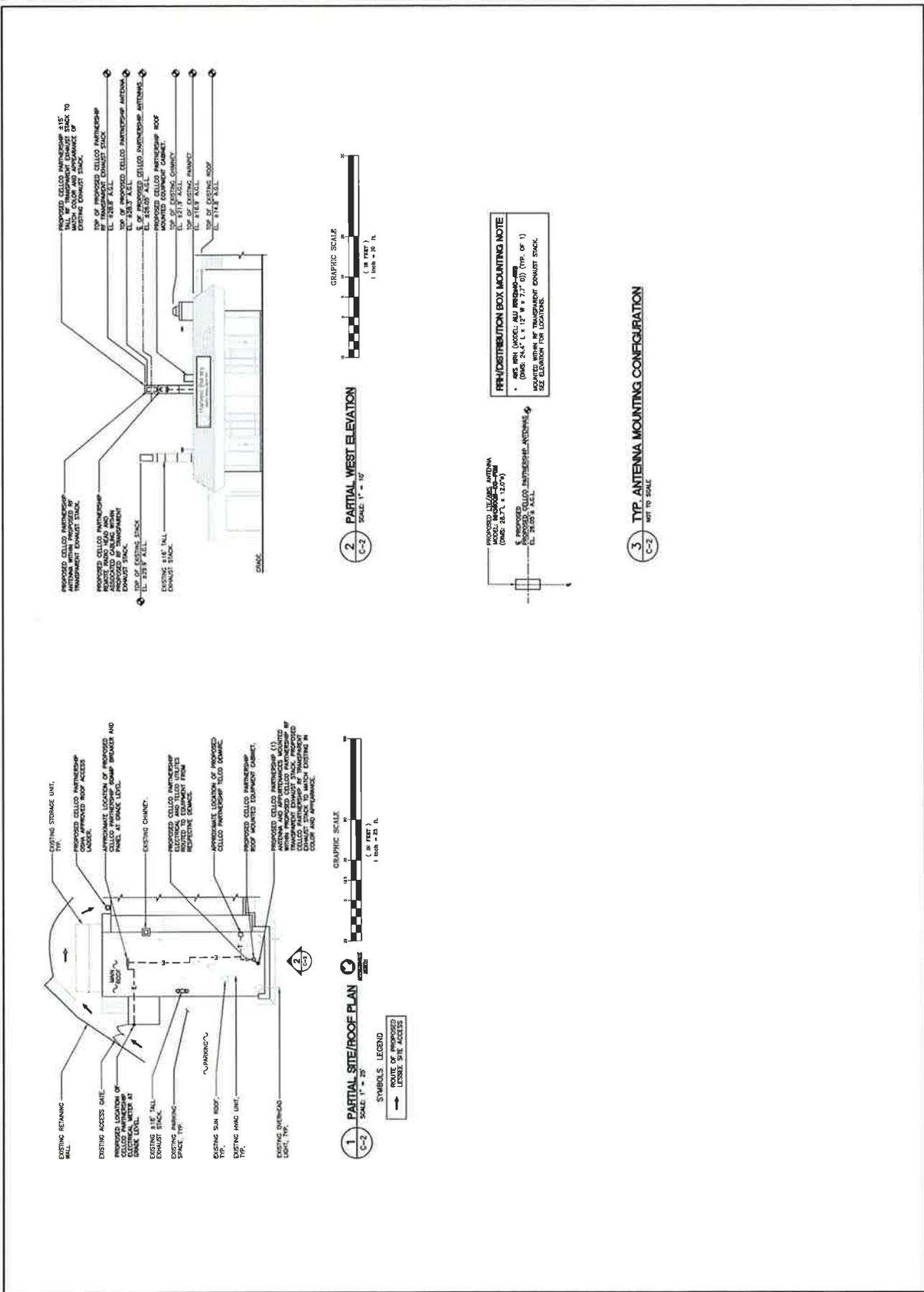
SITE NAME:	BRISTOL SC 1
SITE ADDRESS:	84 FARMINGTON AVENUE BRISTOL, CT 06010
LESSOR/TENANT:	PROPOSED CELLCO PARTNERSHIP 610 S. VERLTON WIRELESS 99 EAST HARTFORD, CT 06108
CONTACT PERSON:	SAMMY CARTER, PROJECT MANAGER (860) 403-4010
SITE COORDINATES:	LATTICES: 41°-1'-02.2417" N LONGITUDE: 72°-58'-23.811" W GROUND ELEVATION: 238.5 FT A.S.L.
COORDINATES AND GROUND ELEVATION REFERENCES FROM THE 2008 CONNECTICUT STATE PLAT MAP FOR THE VERLTON WIRELESS, BY MARTINEZ CONSULTING AND ASSOCIATES L.L.C., DATED JANUARY 15, 2015.	

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	INSTALLERS MAP	0
C-2	ROOF PLAN, ELEVATION AND ANTENNA CONFIGURATION	0

84 FARMINGTON AVENUE BRISTOL, CT 06010		610 S. VERLTON WIRELESS 99 EAST HARTFORD, CT 06108	BRISTOL SC 1 84 FARMINGTON AVENUE BRISTOL, CT 06010
DATE: 01/22/15 SCALE: AS NOTED JOB NO.: 14211.000		TITLE SHEET	
PROJECT: BRISTOL SC 1		SHEET NO. 1 OF 3	

Colco Partnership d/b/a Verizon Wireless WRITERS COMMUNICATIONS FACILITY BRISTOL SC 1 84 FAIRINGTON AVE BRISTOL, CT 06010 WWW.ColcoPartnership.com 2025 000000 622 10000000 622 10000000 BRISTOL, CT 06010 Colco Partnership CENTER Created on 10/15/2015		DATE: 01/22/15 SCALE: AS NOTED JOB NO.: 14311-0000
ROOF PLAN & ELEVATION C-2		



REV.	DATE	BY	CHKD BY	DESCRIPTION
1	01/22/15	EA	EA	ISSUES FOR CONSTRUCTION
2	01/22/15	EA	EA	ISSUES FOR CONSTRUCTION
3	01/22/15	EA	EA	ISSUES FOR CONSTRUCTION
4	01/22/15	EA	EA	ISSUES FOR CONSTRUCTION
5	01/22/15	EA	EA	ISSUES FOR CONSTRUCTION



Legend

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

Site Schematic

Proposed Small Cell Installation
 Bristol SC 1 CT
 84 Farmington Ave
 Bristol, Connecticut

Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 150 feet
 Map Date: January 2015



CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

**ABUTTERS LIST
MAP 24/ LOT 119**

**FARMINGTON AVENUE
BRISTOL, CONNECTICUT**

	<u>Map/Lot</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	24/118	12 Rustic Terrace	Robert A. and Joann Lindsay 12 Rustic Terrace Bristol, CT 06010
2.	24/124	19 Wooding Street	Linda Cruz 19 Wooding Street Bristol, CT 06010
3.	24/123	15 Wooding Street	Michael J. and Katie Tanguay 15 Woodinig Street Bristol, CT 06010
4.	24/122	11 Wooding Street	Christopher D. Jones 11 Wooding Street Bristol, CT 06010
5.	24/121	118 Stewart Street	Peter M. Ngondo P.O. Box 230433 Hartford, CT 06123
6.	24/224	111 Stewart Street	Bristol Residential Properties LLC 52 High Street, Unit 81 Bristol, CT 06010
7.	24/221A	54 Farmington Avenue	General Equities Inc. P.O. Box 7318 Kensington, CT 06037
8.	24/236	99 Farmington Avenue	Elk Bristol Common LLC c/o Elk Investors 489 Fifth Avenue, 7 th Floor New York, NY 10017
9.	24/84	98 Farmington Avenue	Audan Real Estate LLC 66 Harmony Road Bristol, CT 06010