

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 1245 FARMINGTON AVENUE, WEST :  
HARTFORD, CONNECTICUT : JULY 19, 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 1245 Farmington Avenue in West Hartford, Connecticut (the “Property”). The Property is owned by Udolf Investments, LLC and is used for commercial purposes. Cellco refers to the proposed facility as its “West Hartford SC5 Facility”.

II. Factual Background

The Property is an approximately 3.29-acre parcel in West Hartford’s Special Design District # 83 General Business (SDD/BG) zone district. See Attachment 1 – 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 West Hartford and throughout the State of Connecticut. Initially, the proposed West Hartford SC5 Facility will provide wireless service in Cellco's 2100 MHz frequency range only.

A. Proposed West Hartford SC5 Facility

The proposed West Hartford SC5 Facility would consist of a tower mast in the northerly portion of the roof of the building. The tower will support a single panel antenna (Model HBXX-6516DS MHz) and a remote radio head ("RRH") (Model B66-RRH4x45). The tower, antenna and RRH will be concealed within a faux chimney structure designed to match the building. Equipment associated with the antenna would be installed with the RF enclosure. The faux chimney structure will extend to a height of approximately 34'-9" above ground level (AGL); approximately 9'-6" above the roof parapet. Additional radio equipment will be located in a basement meter room. (See Cellco's Project Plans included in Attachment 2). Power and telephone service to the West Hartford SC5 Facility will extend from existing service at the Property. Specifications for the West Hartford SC5 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 small tower mast attached to the roof, supporting a single panel antenna and RRH, all concealed within a RF transparent faux chimney, and the installation of radio and electrical equipment inside the building, will not involve a significant alteration in the physical and environmental characteristics of the Property. No tree removal or ground disturbance is required to install the proposed wireless facility.

2. Visual Effects

The visibility of the proposed “small cell” facility would be limited to locations primarily within the Property. (See Visual Assessment & Photo-Simulations (“Visual Assessment”) included in Attachment 4). The radio and electrical equipment would be screened by the faux chimney. Based on the results of a Visual Assessment, Cellco has determined that the proposed “small cell” facility will not have an adverse visual impact on the views of the building or the character of the existing community.

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 Attachment 5 is a Far Field Approximation table for Cellco’s “small cell” antenna at a centerline height of approximately 34 feet AGL. This calculation indicates that the West Hartford SC5 Facility will operate well within (50.76% of the standard at a distance of 85.8 feet) the RF emission standards established by the FCC.

4. FAA Summary Report

Included in Attachment 6 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 July 19, 2017, a copy of this Petition was sent to West Hartford Mayor Shari Cantor; Todd Dumais, West Hartford Town Planner; and Udolf Investments, LLC, 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 Attachment 7 are copies of the letters sent to Mayor Cantor, Mr. Dumais and Udolf Investments, LLC. Included in Attachment 8 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 tower mast used to support a "small cell" wireless antenna and related radio equipment 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.

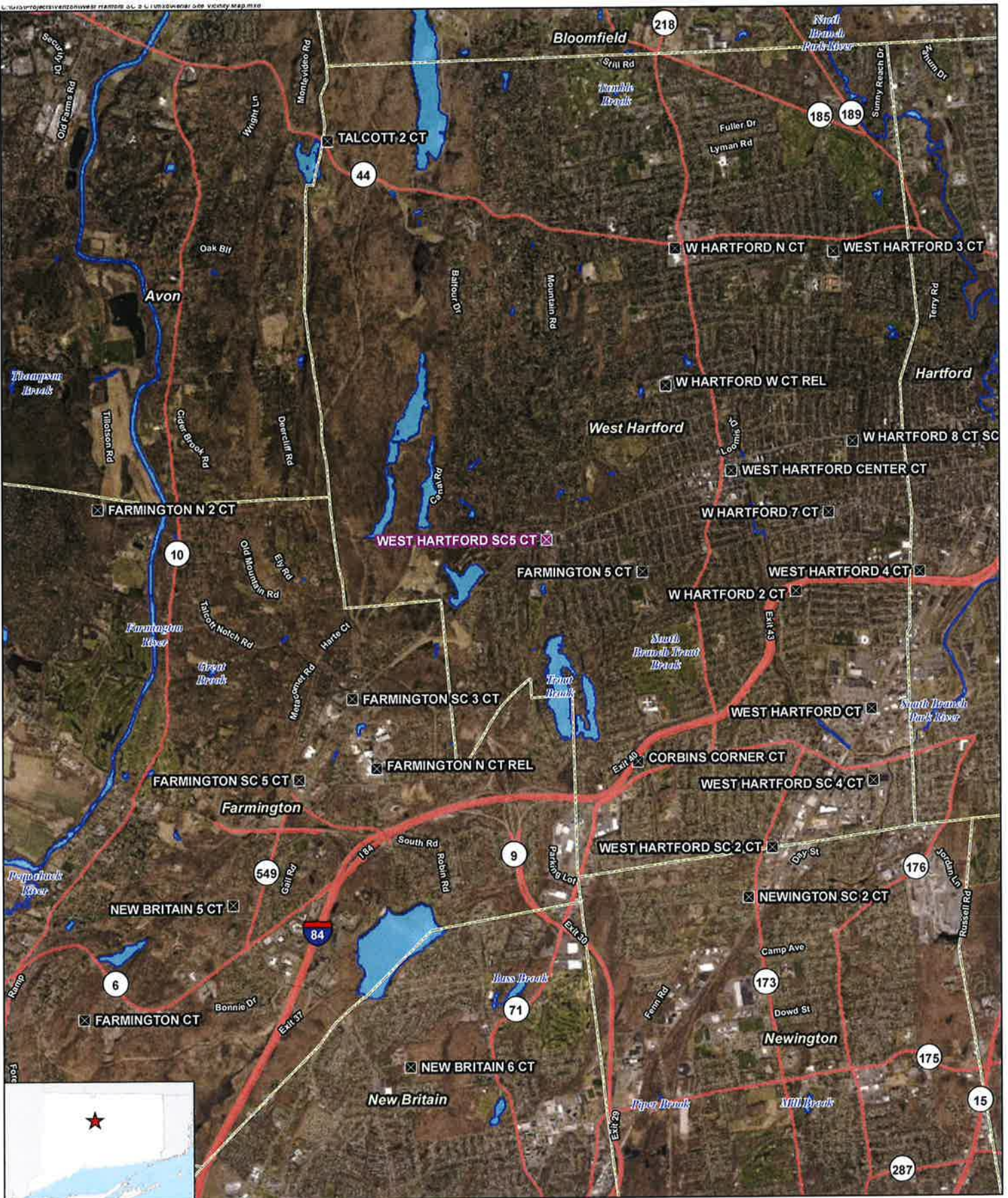
Respectfully submitted,

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**





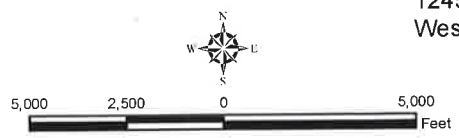
- Legend**
- ✖ Proposed Verizon Wireless Small Cell Facility
  - ✖ Surrounding Verizon Wireless Facilities
  - Municipal Boundary
  - ~ Waterbody

**Site Vicinity Map**

Proposed Small Cell Installation  
 West Hartford SC5 CT  
 1245 Farmington Avenue  
 West Hartford, Connecticut



Base Map Source: 2016 Aerial Photograph (CTECO)  
 Map Scale: 1 inch = 5,000 feet  
 Map Date: June 2017










Proposed Antenna and Associated Appurtenances Mounted to Ballast Mount Within RF Chimney Enclosure Atop Subject Building Roof

**Legend**

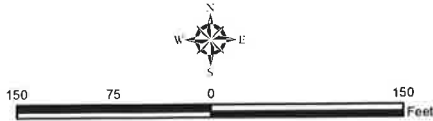
-  Proposed Antenna within RF Chimney Enclosure
-  Approximate Subject Property
-  Approximate Parcel Boundary (CTDEEP GIS)

**Site Schematic**

Proposed Small Cell Installation  
 West Hartford SC5 CT  
 1245 Farmington Avenue  
 West Hartford, Connecticut



Map Notes:  
 Base Map Source: 2016 Aerial Photograph (CTECO)  
 Map Scale: 1 inch = 150 feet  
 Map Date: June 2017



# **ATTACHMENT 2**





WEST HARTFORD SC5 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107

INSTALLATION OF SMALL CELL  
 ANTENNA(S) AND RELATED EQUIPMENT

APPLICANT:



99 EAST RIVER DRIVE - 9th FLOOR  
 EAST HARTFORD, CT 06108

PREPARED BY:



21 B Street | Burlington, MA 01803  
 Tel: (781) 273-2500 | Fax: (781) 273-3311  
 www.ebiconsulting.com



*Kelly Shanahan*

ENGINEER STAMP/SIGNATURE

THIS DOCUMENT IS THE DESIGN PROPERTY  
 & COPYRIGHT OF EBI CONSULTING & FOR  
 THE EXCLUSIVE USE BY THE TITLE CLIENT.  
 ANY DUPLICATION OR USE WITHOUT  
 EXPRESS WRITTEN CONSENT OF THE  
 CREATOR IS STRICTLY PROHIBITED.

SUBMITTALS

NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

EBI JOB NO:

8117000241

SITE INFO:

WEST HARTFORD SC5  
 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107

SHEET TITLE:

TITLE SHEET

DRAWN BY:

OJ

CHECKED BY:

JS

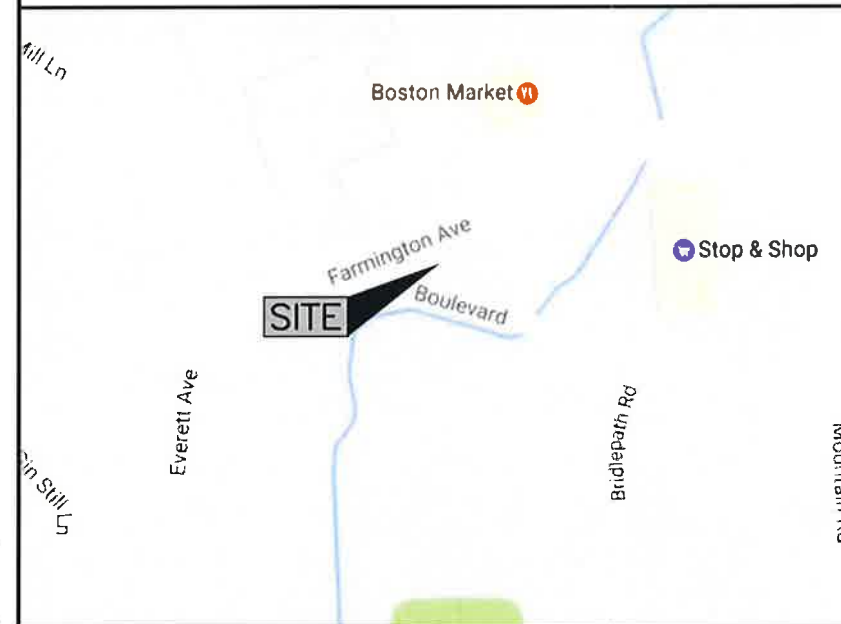
DATE:

05/25/17

SHEET NO:

T-1

VICINITY MAP



SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
Z-1	KEY PLAN & ROOF PLAN
Z-2	ELEVATION
Z-3	ABUTTERS LIST AND AERIAL MAP
Z-4	DETAILS
Z-5	FRP CHIMNEY ELEVATIONS
Z-6	FRP CHIMNEY SECTIONS & DETAIL

PROJECT TEAM

APPLICANT:	VERIZON WIRELESS 99 EAST RIVER DRIVE 9th FLOOR EAST HARTFORD, CT 06108
PROPERTY OWNER:	UDOLF INVESTMENTS LLC 2475 ALABANY AVENUE SUITE 205 WEST HARTFORD, CT 06117
ARCHITECT & ENGINEER:	EBI CONSULTING 21 B STREET BURLINGTON, MA 01803 (781) 273-2500
SITE ACQUISITION:	EBI CONSULTING 21 B STREET BURLINGTON, MA 01803 (781) 273-2500
LEGAL COUNSEL:	KENNETH C. BALDWIN, ESQ ROBINSON & COLE LLP (860) 275-8345

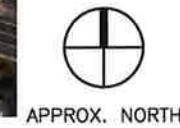
PROJECT INFORMATION

SITE NAME: WEST HARTFORD SC5 CT  
 SITE ADDRESS: 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107  
 COORDINATES: LATITUDE: 41° 45' 15.29" N (NAD 83)  
 LONGITUDE: 72° 45' 59.55" W (NAD 83)  
 GROUND ELEVATION: 171'± A.M.S.L. (NAVD88)

SCOPE OF WORK

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR VERIZON WIRELESS  
 CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED  
 EQUIPMENT.

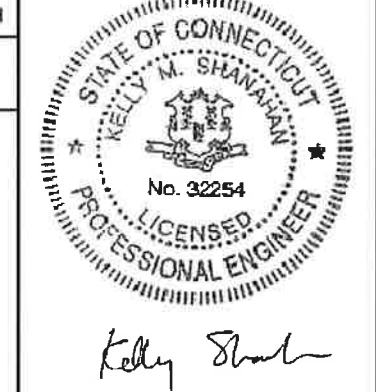
- INSTALL (1) NON-PENETRATING BALLAST MOUNT WITHIN CHIMNEY STEALTH ENCLOSURE, (1) PANEL ANTENNA, (1) REMOTE RADIO HEAD ON PIPE MAST, (1) HOFFMAN BOX AND (1) DISCONNECT MOUNTED TO CONCEALMENT ENCLOSURE.
- INSTALL NON-PENETRATING PLATFORM FOR ADEQUIRE ACCESS TO ACCESS WINDOW.
- INSTALL SAFETY HANDRAIL TO IMPROVE EXISTING ACCESS LADDER.



1 KEY PLAN 11x17 SCALE: N.T.S.

APPLICANT:  
**verizon**  
 99 EAST RIVER DRIVE - 9th FLOOR  
 EAST HARTFORD, CT 06108

PREPARED BY:  
**EBC Consulting**  
 environmental | engineering | due diligence  
 21 B Street | Burlington, MA 01803  
 Tel: (781) 273-2500 | Fax: (781) 273-3311  
 www.ebiconsulting.com



*Kelly Shanahan*  
 ENGINEER STAMP/SIGNATURE  
 THIS DOCUMENT IS THE DESIGN PROPERTY & COPYRIGHT OF EBI CONSULTING & FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

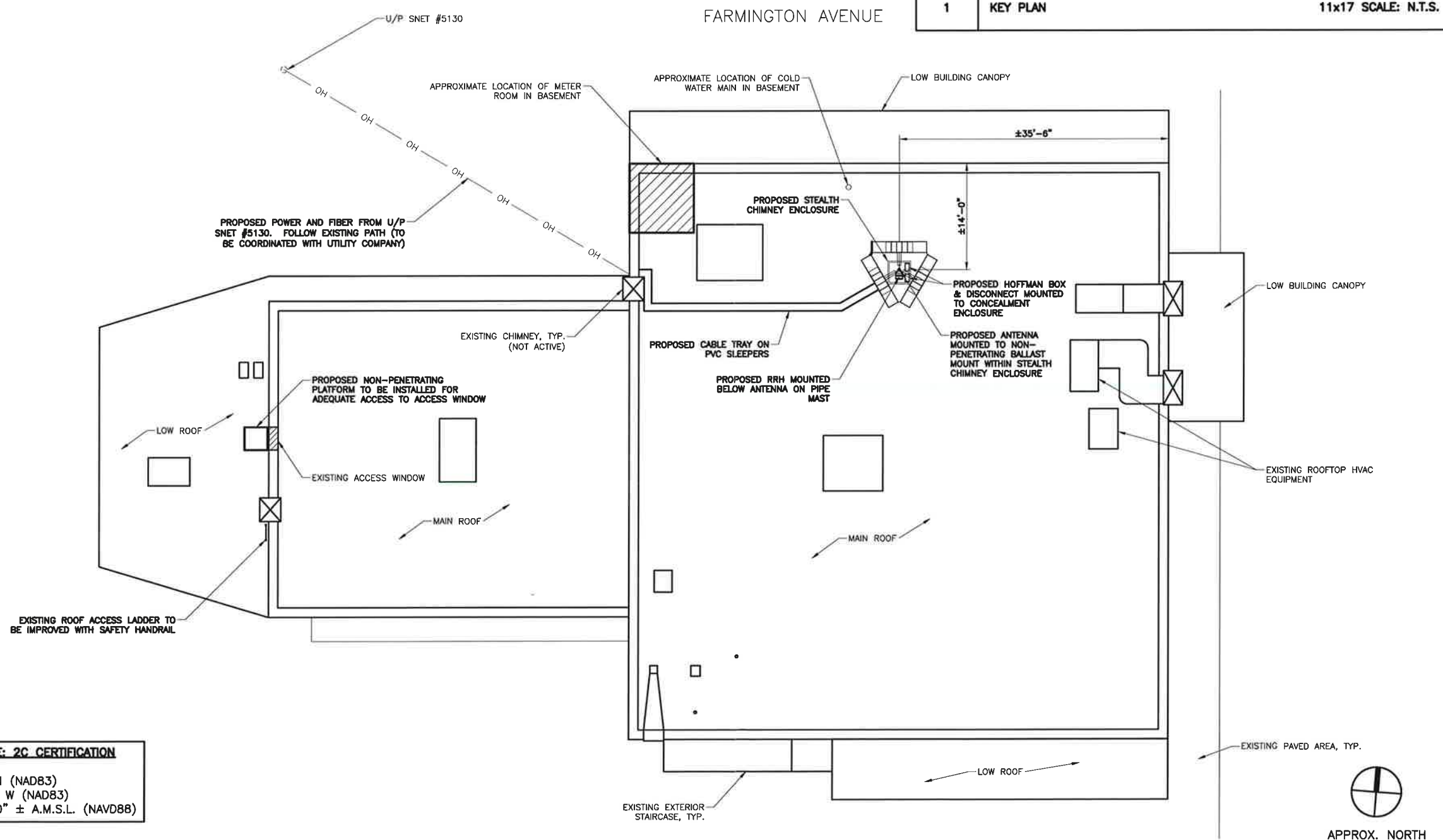
SUBMITTALS

NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

EBI JOB NO:  
**8117000241**  
 SITE INFO:  
**WEST HARTFORD SC5  
 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107**

SHEET TITLE:  
**KEY PLAN  
 AND ROOF PLAN**

DRAWN BY:  
 OJ  
 CHECKED BY:  
 JS  
 DATE:  
 05/25/17  
 SHEET NO:  
**Z-1**



**SITE COORDINATES (SOURCE: 2C CERTIFICATION DATED 08-08-2017):**  
 LATITUDE: 41° 45' 15.29" N (NAD83)  
 LONGITUDE: 72° 45' 59.55" W (NAD83)  
 GROUND ELEVATION: 171'-0" ± A.M.S.L. (NAVD88)

2 ROOF PLAN

11x17 SCALE: 1/16" = 1'-0"

APPLICANT:



99 EAST RIVER DRIVE - 9th FLOOR  
EAST HARTFORD, CT 06108

PREPARED BY:



21 B Street | Burlington, MA 01803  
Tel: (781) 273-2500 | Fax: (781) 273-3311  
www.ebiconsulting.com



*Kelly Shanahan*

ENGINEER STAMP/SIGNATURE

THIS DOCUMENT IS THE DESIGN PROPERTY & COPYRIGHT OF EBI CONSULTING & FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

SUBMITTALS

NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

EBI JOB NO:  
**8117000241**

SITE INFO:  
**WEST HARTFORD SC5  
CT  
20141134205  
1245 FARMINGTON AVE  
WEST HARTFORD, CT 06107**

SHEET TITLE:  
**ELEVATION**

DRAWN BY:  
OJ

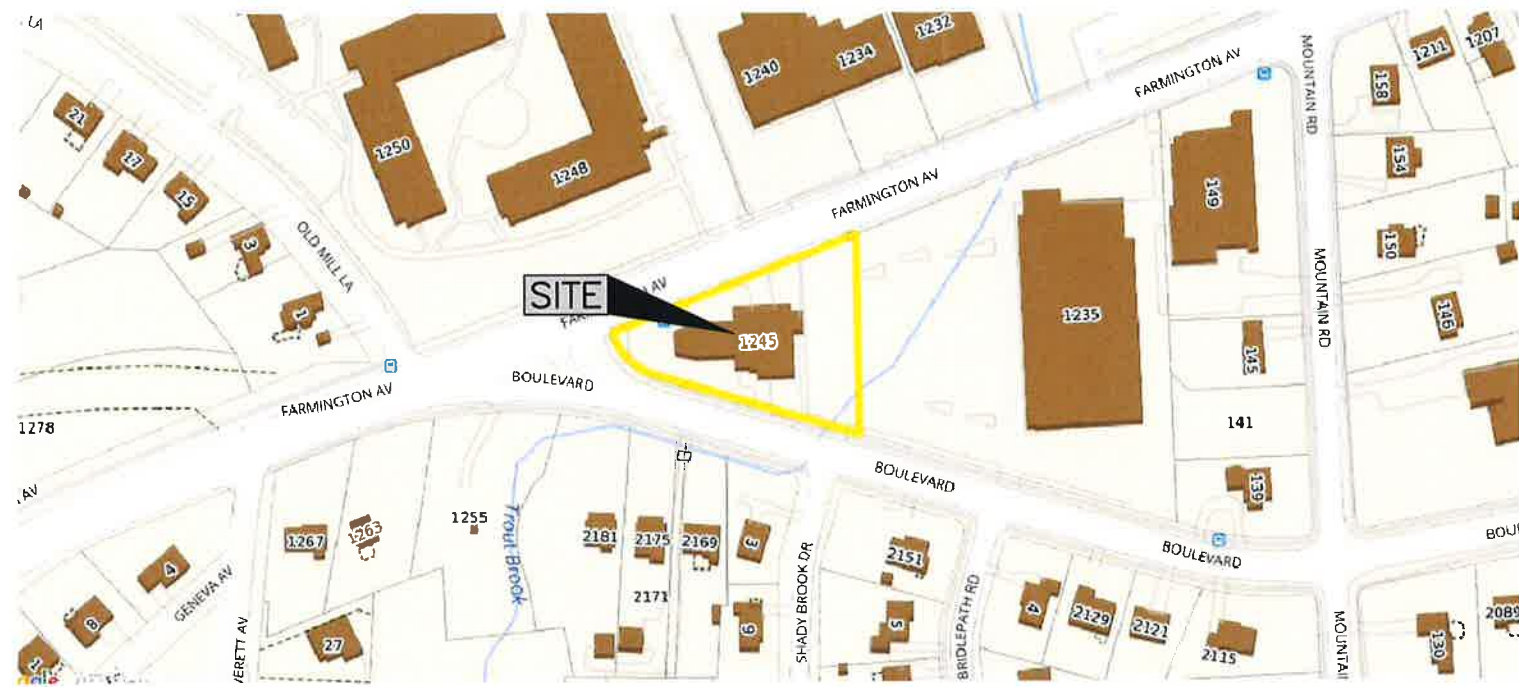
CHECKED BY:  
JS

DATE:  
05/25/17

SHEET NO:  
**Z-2**







APPLICANT:  
**verizon**  
 99 EAST RIVER DRIVE - 9th FLOOR  
 EAST HARTFORD, CT 06108

PREPARED BY:  
**EBI Consulting**  
 environmental | engineering | due diligence  
 21 B Street | Burlington, MA 01803  
 Tel: (781) 273-2500 | Fax: (781) 273-3311  
 www.ebiconsulting.com



*Kelly Shanahan*

1 ABUTTERS AERIAL MAP N.T.S.

ENGINEER STAMP/SIGNATURE  
 THIS DOCUMENT IS THE DESIGN PROPERTY & COPYRIGHT OF EBI CONSULTING & FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

**SUBMITTALS**

NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

Property Address	Owner Name	Owner's Mailing Address	Owner Address 2	City State Zip
3 SHADY BROOK DRIVE	LUNDBERG GEORGE III	3 SHADY BROOK LANE		WEST HARTFORD, CT 06107
1235 FARMINGTON AVENUE	UDOLF FAMILY ENTERPRISES LLC	2475 ALBANY AVENUE SUITE 205		WEST HARTFORD, CT 06117
2175 BOULEVARD	HOCK JUDITH C	2175 BOULEVARD		WEST HARTFORD, CT 06107
2169 BOULEVARD	FRITZ FREDERICK M JR	2169 BOULEVARD		WEST HARTFORD, CT 06107
1248 FARMINGTON AVENUE	BFN WESTGATE LLC	3333 EAST BAYAUD #318		DENVER, CO 80209
1240 FARMINGTON AVENUE	STONEMEADOW REALTY LLC	C/O JRI ADVISORS	10 EXECUTIVE DRIVE	FARMINGTON, CT 06032
2151 BOULEVARD	FROMER ROBERT TR	2151 BOULEVARD		WEST HARTFORD, CT 06107
1234 FARMINGTON AVENUE	UDOLF INVESTMENTS LLC	2475 ALBANY AVENUE SUITE 205		WEST HARTFORD, CT 06117
1255 FARMINGTON AVENUE	CONN LIGHT AND POWER CO	ATTN-PROPERTY TAX DEPT	P O BOX 270	HARTFORD, CT 06141-0270
2181 BOULEVARD	BROUILLETTE CARL R	2181 BOULEVARD		WEST HARTFORD, CT 06107
2171 BOULEVARD	BROUILLETTE CARL R	2171 BOULEVARD		WEST HARTFORD, CT 06107

EBI JOB NO:  
**8117000241**

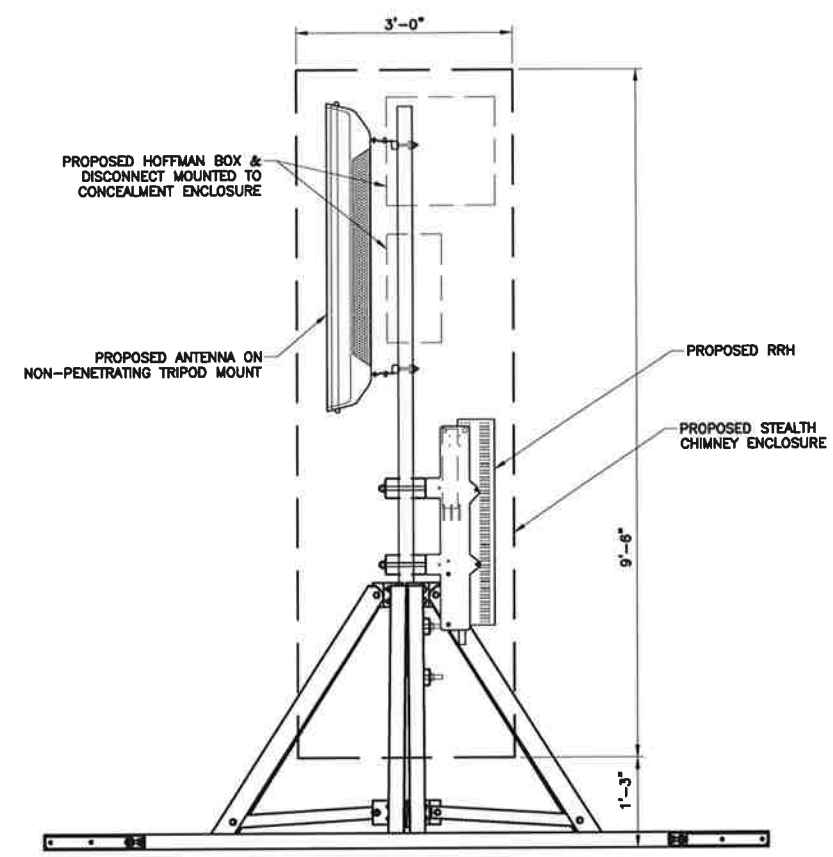
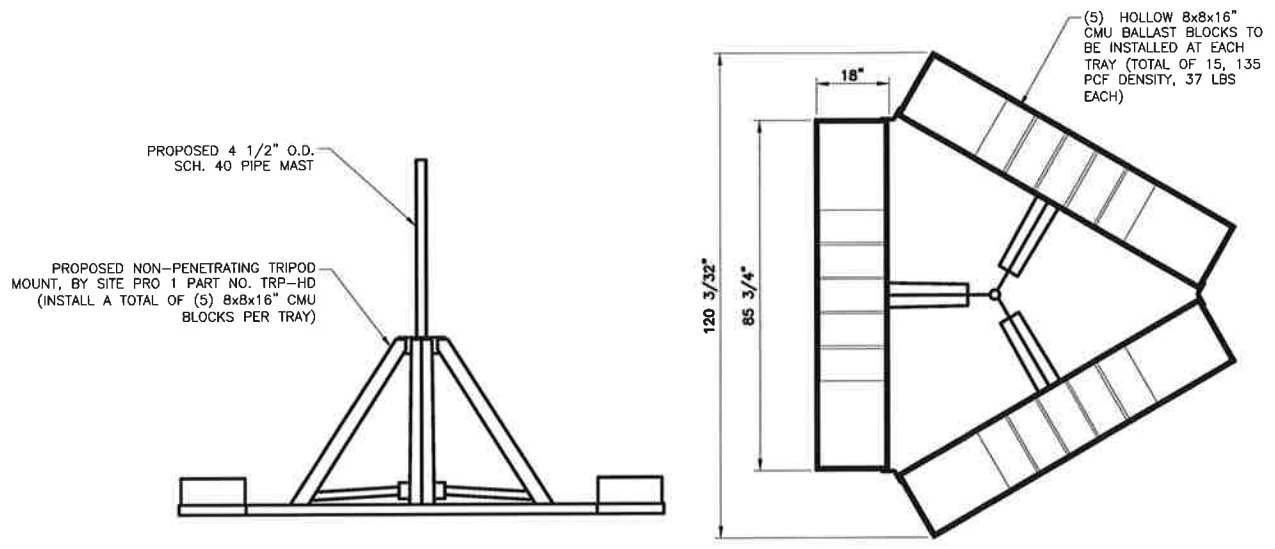
SITE INFO:  
**WEST HARTFORD SC5  
 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107**

SHEET TITLE:  
**ABUTTERS LIST AND  
 AERIAL MAP**

DRAWN BY: OJ  
 CHECKED BY: JS  
 DATE: 05/25/17

SHEET NO:  
**Z-3**

2 ABUTTERS LIST N.T.S.



APPLICANT:  
**verizon**  
 99 EAST RIVER DRIVE – 9th FLOOR  
 EAST HARTFORD, CT 06108

PREPARED BY:  
**EBC Consulting**  
 environmental | engineering | due diligence  
 21 B Street | Burlington, MA 01803  
 Tel: (781) 273-2500 | Fax: (781) 273-3311  
 www.ebiconsulting.com



*Kelly Shanahan*

ENGINEER STAMP/SIGNATURE

1 NON-PENETRATING TRIPOD MOUNT 11x17 SCALE: 1/4" = 1'-0"

2 ANTENNA MOUNTING DETAIL 11x17 SCALE: 3/8" = 1'-0"

THIS DOCUMENT IS THE DESIGN PROPERTY & COPYRIGHT OF EBI CONSULTING & FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

SUBMITTALS

NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

EBC JOB NO:  
**8117000241**

SITE INFO:  
**WEST HARTFORD SC5  
 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107**

SHEET TITLE:  
**DETAILS**

DRAWN BY: OJ	SHEET NO: <b>Z-4</b>
CHECKED BY: JS	
DATE: 05/25/17	

3 SPACE NOT USED 11x17 SCALE: N.T.S.

4 SPACE NOT USED 11x17 SCALE: N.T.S.







APPLICANT:

**verizon**  
 99 EAST RIVER DRIVE - 9th FLOOR  
 EAST HARTFORD, CT 06108

PREPARED BY:

**EBC Consulting**  
 environmental | engineering | due diligence  
 21 B Street | Burlington, MA 01803  
 Tel: (781) 273-2500 | Fax: (781) 273-3311  
 www.ebiconsulting.com



*Kelly Shanahan*

ENGINEER STAMP/SIGNATURE

THIS DOCUMENT IS THE DESIGN PROPERTY & COPYRIGHT OF EBC CONSULTING & FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

**SUBMITTALS**

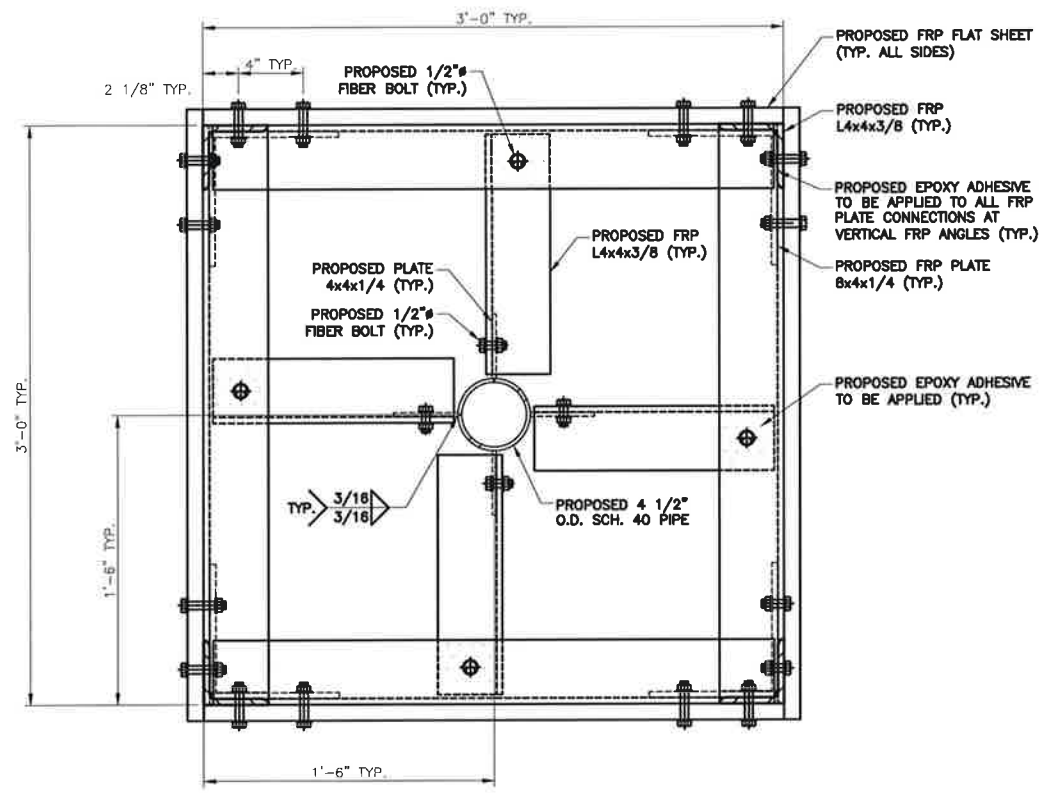
NO.	DATE	DESCRIPTION	BY
0	06/13/17	FOR REVIEW	OJ
1	07/06/17	REV PER COMMENTS	SM
2	07/07/17	REV PER COMMENTS	OJ
3	07/10/17	REV PER COMMENTS	OJ

EBC JOB NO:  
**8117000241**

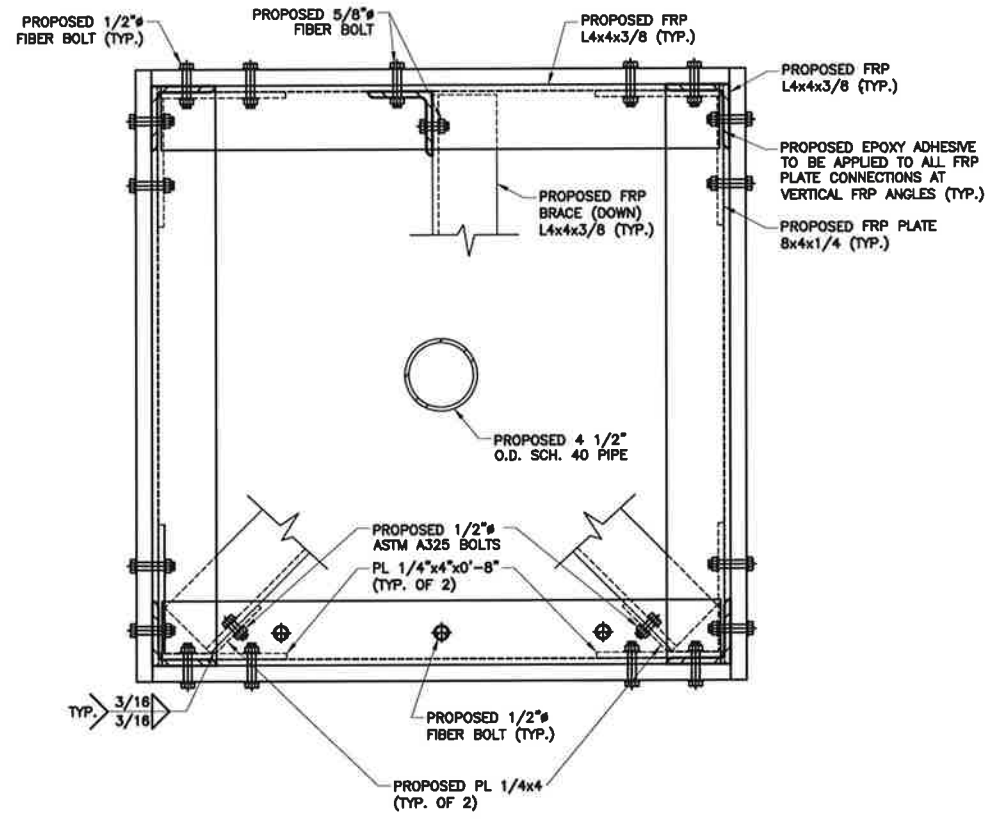
SITE INFO:  
**WEST HARTFORD SC5  
 CT  
 20141134205  
 1245 FARMINGTON AVE  
 WEST HARTFORD, CT 06107**

SHEET TITLE:  
**FRP CHIMNEY  
 SECTIONS & DETAIL**

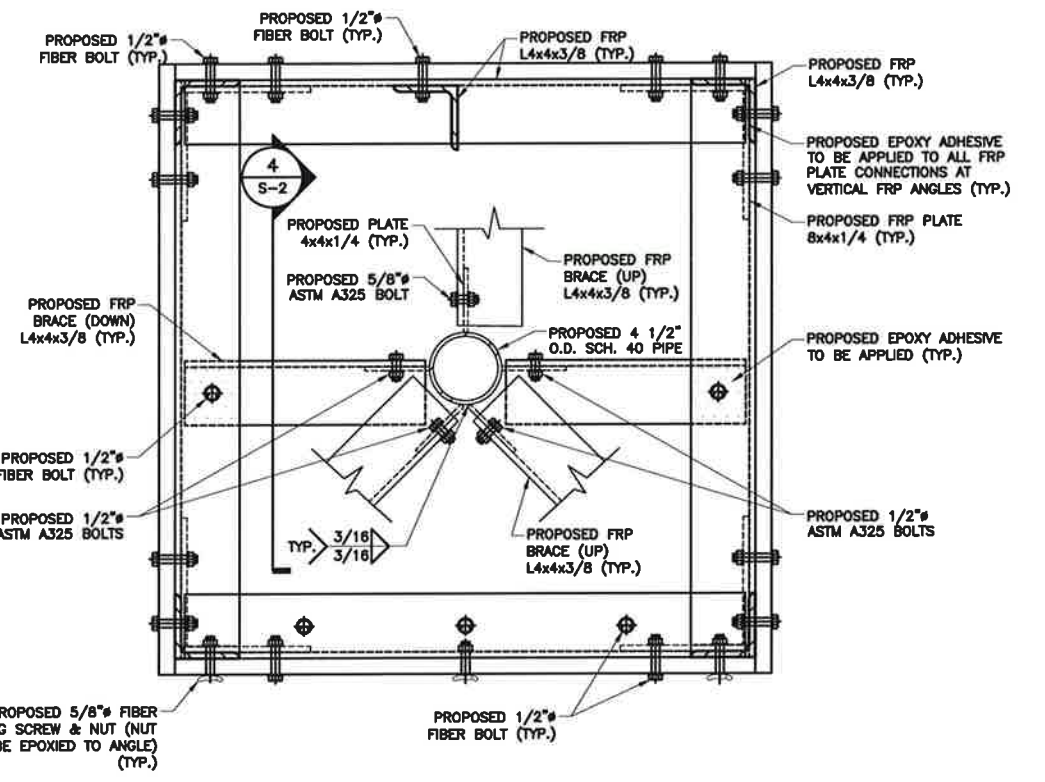
DRAWN BY: OJ  
 CHECKED BY: JS  
 DATE: 05/25/17  
 SHEET NO:  
**Z-6**



**1 FRP CHIMNEY SECTION** 11x17 SCALE: 1" = 1'-0"

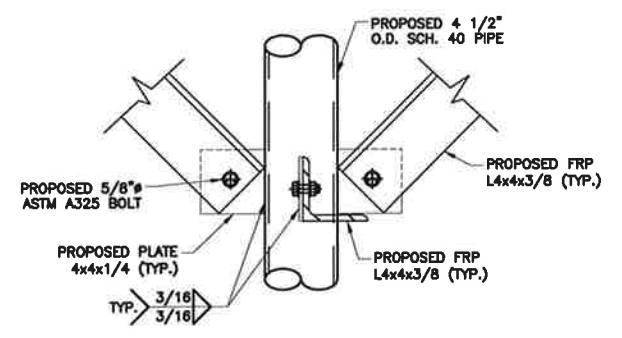


**2 FRP CHIMNEY SECTION** 11x17 SCALE: 1" = 1'-0"



**3 FRP CHIMNEY SECTION** 11x17 SCALE: 1" = 1'-0"

NOTE:  
 OTHER TABS AND SUPPORTING FRP ANGLES REMOVED FOR CLARITY.



**4 CONNECTION DETAIL** 11x17 SCALE: N.T.S.

- FRP NOTES:**
- ALL FRP TO BE EXTREN SERIES 525 AS MANUFACTURED BY STRONGWELL, OR PULTEX SERIES 1525, OR APPROVED EQUAL. MINIMUM TENSILE STRENGTH SHALL BE 30 KSI IN FIBER LONG DIRECTION AND 10 KSI IN FIBER SHORT DIRECTION.
  - ALL PANELS SHALL BE 1" FRP FLAT SHEETS.
  - PANELS SHALL BE BOLTED TO FRAME WITH MIN. 1/2" DIAM. FRP FIBERBOLTS AT 12" ON CENTER (BY EXTREN OR EQUAL), UNLESS OTHERWISE NOTED.
  - PANELS SHALL MATCH EXISTING BUILDING FINISH. SUBMIT 12"x12" SAMPLE TO BUILDING OWNER FOR APPROVAL PRIOR TO FABRICATION & INSTALLATION.
  - NON-REMOVABLE PANELS MAY BE ADHERED TO SUPPORTING FIBERGLASS MEMBERS WITH EPOXY. EPOXY SHALL BE APPLIED PER MANUFACTURER'S DIRECTIONS OR PER EXTREN'S FABRICATION & REPAIR MANUAL. EPOXY PRODUCTS SHALL BE ONE OF THE FOLLOWING (OR APPROVED EQUAL): STRONGWELL E-502 OR E-503 KITS,

- 828 W/V40 HARDENER, OR DOW D.E.R. 331 W/D.E.H. 58 HARDENER. STEEL SCREWS USED FOR TEMPORARY MECHANICAL FASTENINGS DURING THE ADHESION PROCESS SHALL BE REMOVED AND HOLES PATCHED WHERE EXPOSED TO EXTERIOR VIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS AND FIELD CONNECTIONS PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.
- ALL BOLTS IN FRP MEMBERS SHALL HAVE THE FOLLOWING MINIMUM SPACING AND EDGE DISTANCES FROM CENTERLINES OF BOLTS TO THE NEAREST EDGE OF THE CONNECTED PART:  
 1/2" DIAM. BOLTS: SPACING = 2.0", EDGE = 1.0"  
 5/8" DIAM. BOLTS: SPACING = 2.5", EDGE = 1.25"

**5 FRP NOTES**

# **ATTACHMENT 3**



## HBXX-6516DS-VTM | HBXX-6516DS-A2M

**Single Band Quad Port Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible**

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Great solution to maximize network coverage and capacity

### Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	17.7	18.0	18.0
Beamwidth, Horizontal, degrees	67	66	64
Beamwidth, Vertical, degrees	7.5	7.0	6.6
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	22	22	21
CPR at Sector, dB	8	9	9
Isolation, dB	30	30	30
VSWR   Return Loss, dB	1.4   15.6	1.4   15.6	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

### Electrical Specifications, BASTA\*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	17.2	17.2	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.5
	0°   17.0	0°   17.1	0°   17.4
Gain by Beam Tilt, average, dBi	5°   17.3	5°   17.4	5°   17.7
	10°   17.0	10°   17.0	10°   17.2
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.3	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26
CPR at Boresight, dB	22	22	22
CPR at Sector, dB	9	9	9

\* 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

Antenna Type	Sector
Band	Single band
Brand	DualPol®
Operating Frequency Band	1710 – 2180 MHz
Performance Note	Outdoor usage



## Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, frontal	419.0 N @ 150 km/h 94.2 lbf @ 150 km/h
Wind Loading, lateral	113.0 N @ 150 km/h 25.4 lbf @ 150 km/h
Wind Loading, rear	488.0 N @ 150 km/h 109.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   150 mph

## Dimensions

Depth	166.0 mm   6.5 in
Length	1297.0 mm   51.1 in
Width	305.0 mm   12.0 in
Net Weight, without mounting kit	13.9 kg   30.6 lb

## Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-6516DS-A2M

## Packed Dimensions

Depth	292.0 mm   11.5 in
Length	1427.0 mm   56.2 in
Width	402.0 mm   15.8 in
Shipping Weight	23.5 kg   51.8 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006  
ISO 9001:2008

### Classification

Compliant by Exemption  
Above Maximum Concentration Value (MCV)  
Designed, manufactured and/or distributed under this quality management system



## Included Products

600899A-2 — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## \* **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.

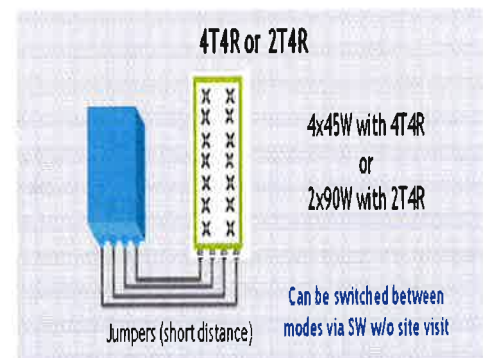
Its compactness and slim design makes the Alcatel-Lucent B66a RRH4x45 easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the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





# TECHNICAL SPECIFICATIONS

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

# **ATTACHMENT 4**

# Visual Assessment & Photo-Simulations

WEST HARTFORD SC5  
1245 FARMINGTON AVENUE  
WEST HARTFORD, CT



Prepared in July 2017 by:  
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 1245 Farmington Avenue in West Hartford, Connecticut (the "Host Property").

## Project Setting

The Host Property is located on the eastern side of the intersection of Farmington Avenue (to the north) and Boulevard (to the south). The surrounding land use is a mix of medium density commercial and residential development with an existing apartment complex to the north and several small businesses located to the northeast and east. The location of the proposed Facility is on the roof of the western most building located within a shopping plaza surrounded by paved parking areas. See *Figure 1 – Site Location Map*.

The proposed Facility would include one (1) panel antenna and one (1) remote radio head ("RRH") attached to a non-penetrating tripod ballast-mount shrouded behind radio-frequency compatible screening on the building's north side roof. The proposed screening would be made to resemble a faux brick chimney and mimic an existing chimney located on the buildings northwest corner. The height of the proposed chimney concealment would be  $\pm 34.75$  feet above ground level ("AGL"), extending approximately 9.5 feet above the building's upper roof line. Utilities would be routed overhead from an existing utility pole (SNET #5130) to four (4) new two (2) inch, ground-to-roof wall-mounted PVC conduit, installed on the façade of the building's northwest corner, next to the existing chimney. The proposed conduit would be painted to match the existing buildings façade. The Facility components and their locations are illustrated in *Figure 2 – Proposed Equipment Location and Elevation Plan*.



## Methodology

On July 7, 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.

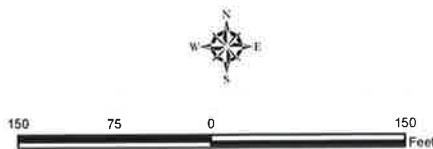
Three-dimensional computer models were developed for the building and proposed Facility components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area.





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

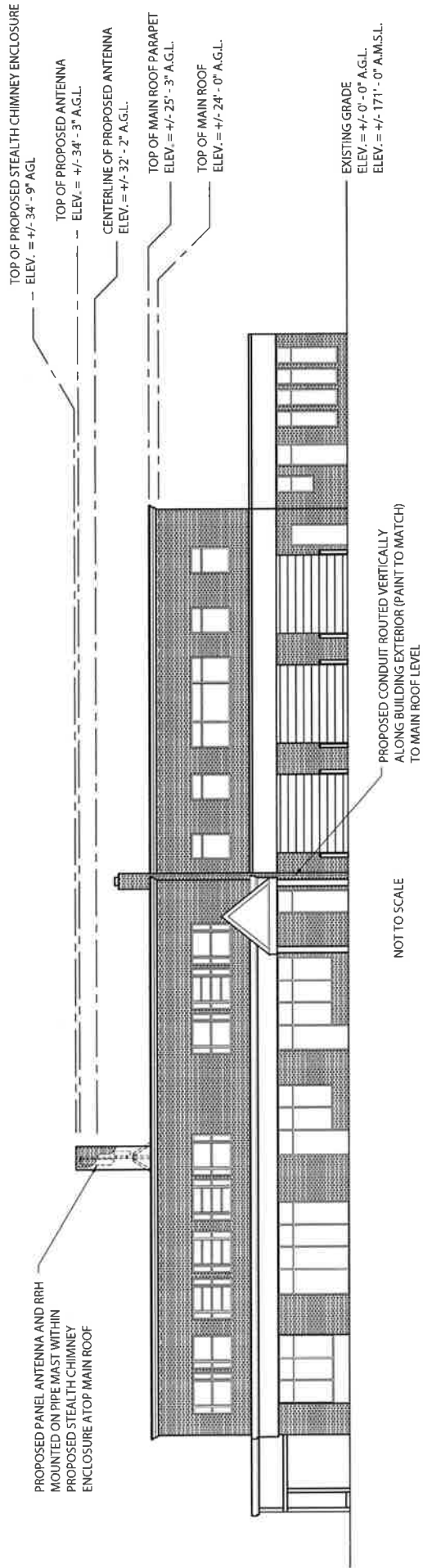
*Map Notes:*  
 Base Map Source: 2016 Aerial Photograph (CTECO)  
 Map Scale: 1 inch = 150 feet  
 Map Date: July 2017



**Figure 1 - Site Location Map**

Proposed Small Cell Installation  
 West Hartford SC5 CT  
 1245 Farmington Avenue  
 West Hartford, Connecticut





**FIGURE 2: PROPOSED EQUIPMENT LOCATION AND ELEVATION PLAN**

Details extracted and modified from technical drawings provided by EBI Consulting dated 4-06-17.



## Photograph Locations

Four (4) of the five (5) 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	Stop & Shop Parking Lot	Northwest	±204 Feet
2	Farmington Avenue	Southwest	±332 Feet
3	Farmington Avenue	Southeast	±199 Feet
4	Boulevard	Northeast	±173 Feet
5	Boulevard*	North	±199 Feet

*\*Not Visible from this Location*

## Conclusions

The visibility of the proposed Facility would be limited to locations primarily within the immediate vicinity of the Host Property. The location and design of the proposed Facility would appear to be a component of the building and barely discernible as a telecommunications site.

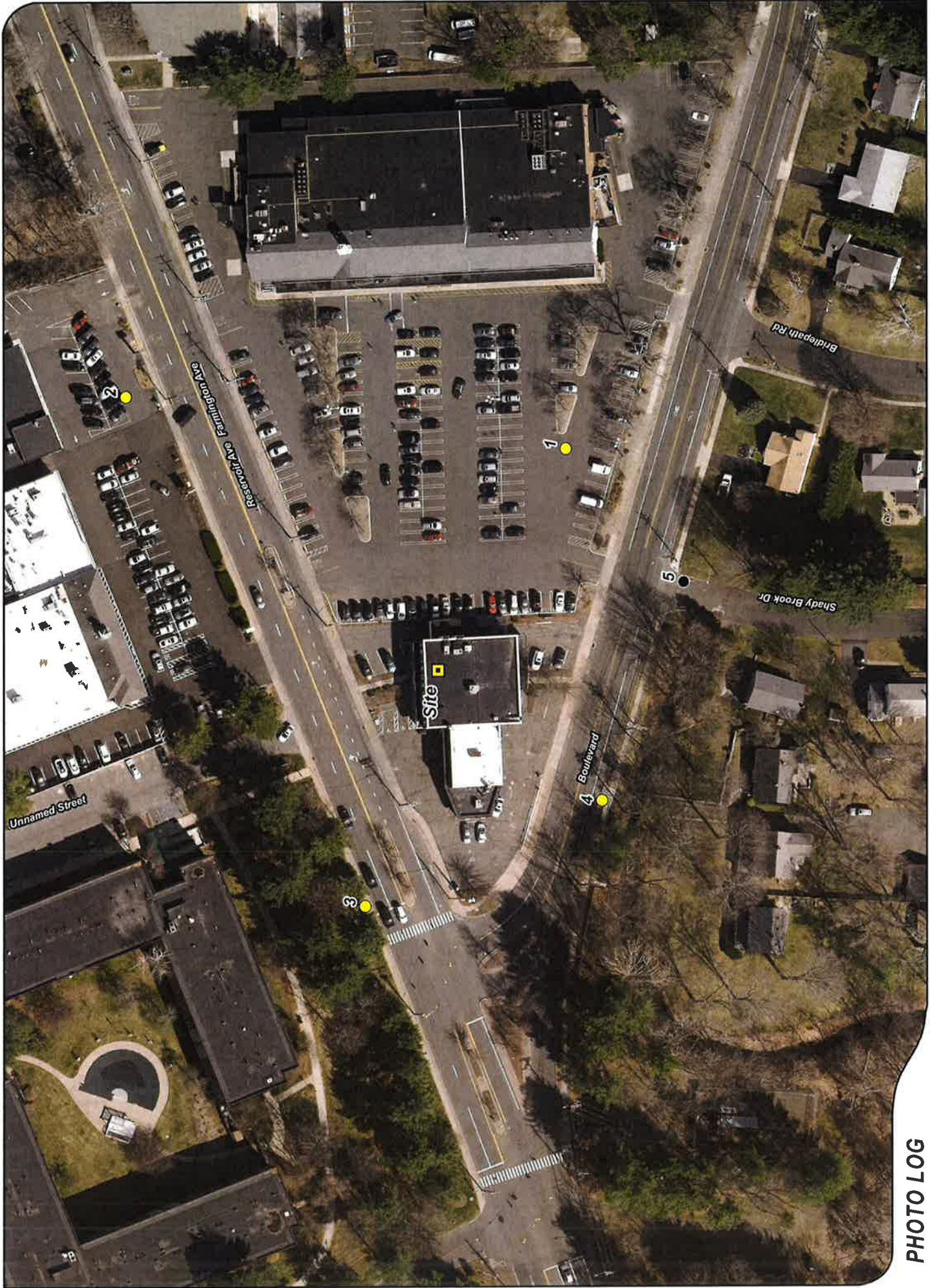
Based on the results of this assessment, it is our opinion that the proposed installation of the Verizon Wireless communications Facility will not have an adverse visual impact on existing views of this building or the character of the community.

## 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 fairly characterize the prevailing views from all locations within a given area. 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.

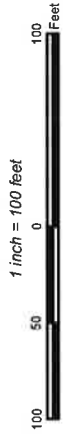
## **Attachments**



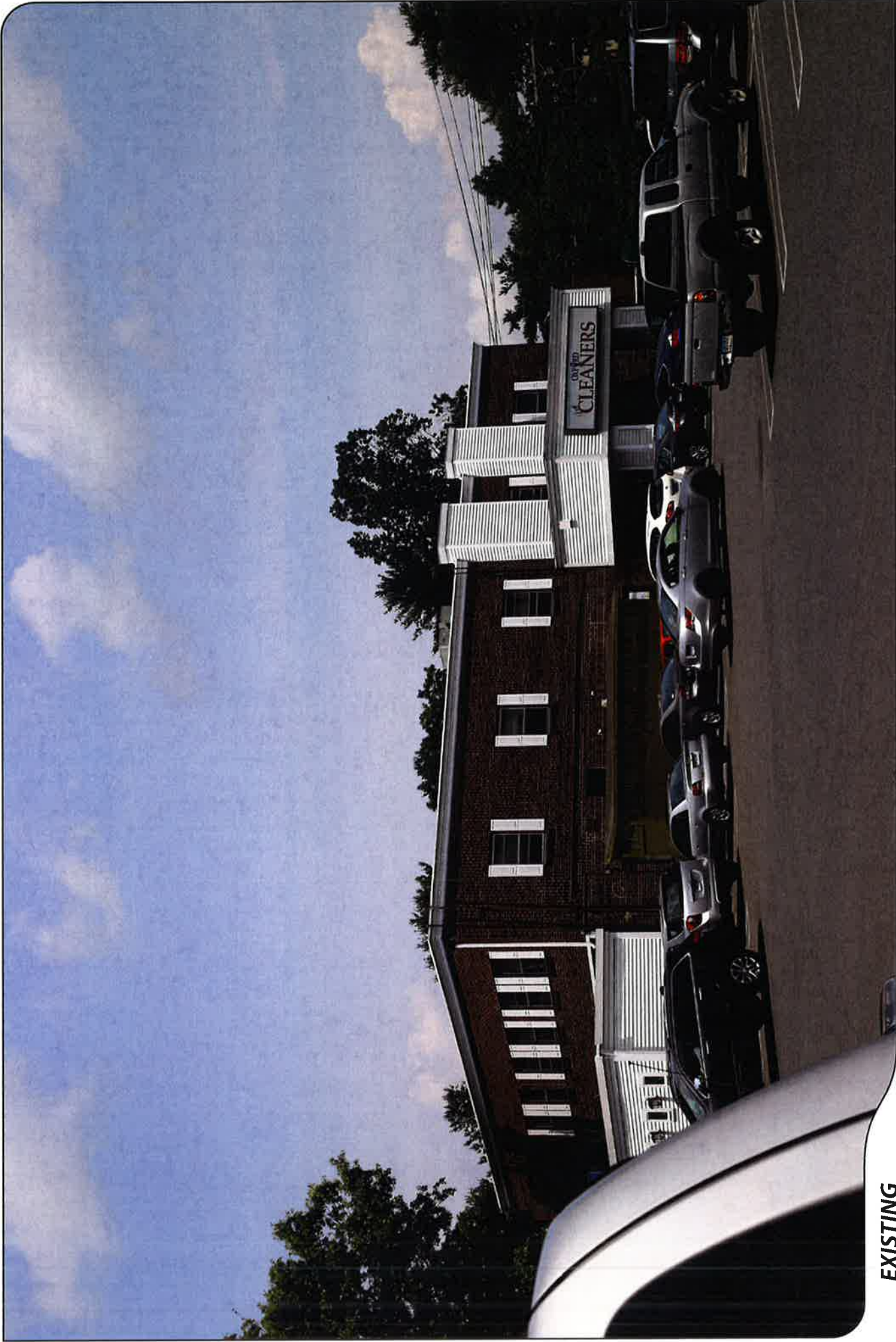


# PHOTO LOG

- Legend
- Site
  - Not Visible
  - Year-Round Visibility







**EXISTING**

PHOTO

1

LOCATION

**STOP & SHOP PARKING LOT**

ORIENTATION

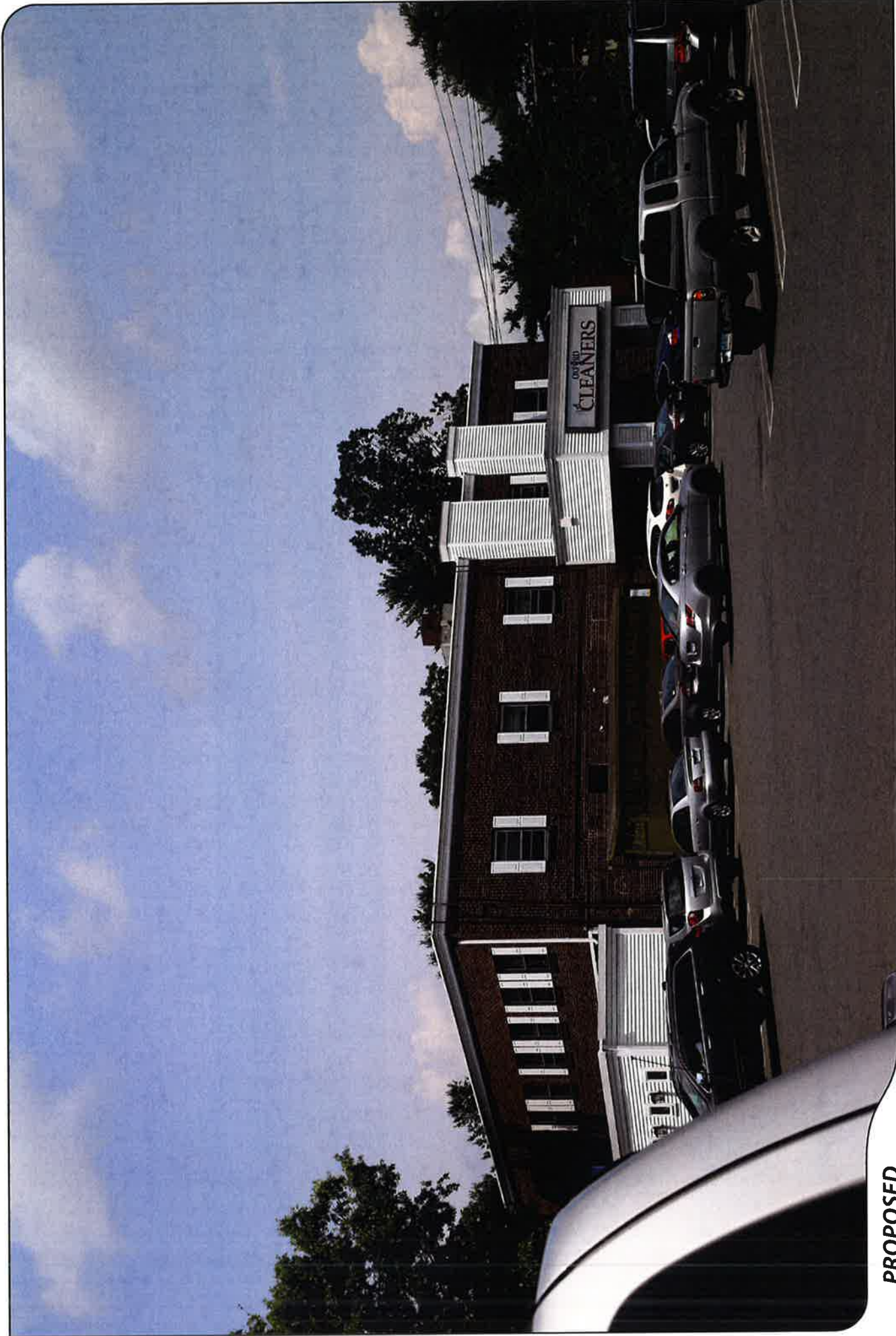
**NORTHWEST**

DISTANCE TO SITE

**+/- 204 FEET**



PHOTOGRAPHED ON 7/12/2017



**PROPOSED**

PHOTO

1

LOCATION

**STOP & SHOP PARKING LOT**

ORIENTATION

**NORTHWEST**

DISTANCE TO SITE

**+/- 204 FEET**



ALL-POINTS  
TECHNOLOGY CORPORATION

**verizon**





**EXISTING**

PHOTO

2

LOCATION

**FARMINGTON AVENUE**

ORIENTATION

**SOUTHWEST**

DISTANCE TO SITE

**+/- 332 FEET**







**PROPOSED**

PHOTO

2

LOCATION

**FARMINGTON AVENUE**

ORIENTATION

**SOUTHWEST**

DISTANCE TO SITE

**+/- 332 FEET**



**ALL-POINTS**  
TECHNOLOGY CORPORATION







**EXISTING**

PHOTO

3

LOCATION

**FARMINGTON AVENUE**

ORIENTATION

**SOUTHEAST**

DISTANCE TO SITE

**+/- 199 FEET**



PHOTOGRAPHED ON 7/12/2017





**PROPOSED**

PHOTO

3

LOCATION

**FARMINGTON AVENUE**

ORIENTATION

**SOUTHEAST**

DISTANCE TO SITE

**+/- 199 FEET**





**EXISTING**

PHOTO

4

LOCATION

**BOULEVARD**

ORIENTATION

**NORTHEAST**

DISTANCE TO SITE

**+/- 173 FEET**



ALL-POINTS  
TECHNOLOGY CORPORATION



PHOTOGRAPHED ON 7/12/2017





**PROPOSED**

PHOTO

4

LOCATION  
**BOULEVARD**

ORIENTATION  
**NORTHEAST**

DISTANCE TO SITE  
**+/- 173 FEET**



ALL-POINTS  
TECHNOLOGY CORPORATION







**NOT VISIBLE FROM THIS LOCATION**

**EXISTING**

PHOTO

5

LOCATION

**BOULEVARD**

ORIENTATION

**NORTH**

DISTANCE TO SITE

**+/- 199 FEET**



PHOTOGRAPHED ON 7/12/2017

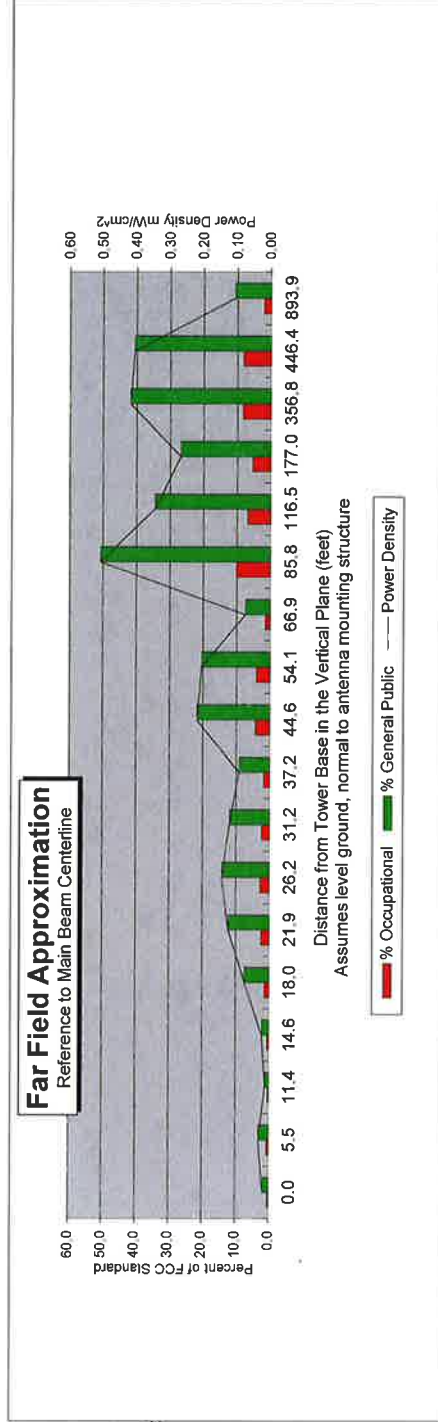
# **ATTACHMENT 5**

Far Field Approximation  
with downtilt variation

**Estimated Radiated Emission**  
**Single Emitter Far Field Model**  
**Dipole / Wire/ Yagi Antenna Types**



Location:	WEST HARTFORD SC 5, CT
Site #:	
Date:	06/07/17
Name:	Mark Brauer
File Name:	West Hartford SC 5, CT - FF PC
Operating Freq. (MHz)	2110.0
Antenna Height (ft):	34.2
Antenna Gain (dBi):	17.8
Antenna Size (in.):	51.0
Downtilt (degrees):	0.0
Feedline Loss (dB):	0.0
Power @ J4 (w):	6500.0
Number of Channels	1



		Distance in feet below:																	
		90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
Calc Angle		31.2	31.7	33.2	34.4	36.0	38.1	40.7	44.1	48.6	54.4	62.4	73.9	91.3	120.6	179.8	358.2	447.5	894.4
Solve for r, dx to antenna		0.0	5.5	11.4	14.6	18.0	21.9	26.2	31.2	37.2	44.6	54.1	66.9	85.8	116.5	177.0	356.8	446.4	893.9
Distance from Antenna Structure Base in Horizontal plane		90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
Angle from Main Beam (reference to horizontal plane)		36.76	34.35	38.52	35.34	29.54	26.8	25.59	25.63	25.99	21.21	20.29	23.24	13.03	12.3	9.92	2	0.2	0
dB down from centerline (referenced to centerline)		2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Reflection Coefficient (1 to 4, 2.56 typical)		0.02	0.03	0.01	0.02	0.07	0.12	0.14	0.12	0.09	0.22	0.20	0.07	0.51	0.34	0.27	0.42	0.41	0.11
Power Density (mW/cm²)		0.4	0.6	0.2	0.4	1.5	2.4	2.8	2.4	1.8	4.3	4.1	1.5	10.2	6.9	5.4	8.4	8.1	2.1
Percent of Occupational Standard		1.8	3.1	1.1	2.1	7.3	12.2	14.1	11.9	9.1	21.7	20.4	7.4	50.8	34.4	26.8	41.8	40.5	10.6
Percent of General Population Standard																			

Antenna Type: HBXX-6516DS-A2M  
Max%: 50.76%

- Instructions:
- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
  - 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
  - 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi, add 2.17 to dBd to obtain dBi), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power Density (mW/cm²).
  - 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
  - 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
  - 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
  - 7) An odd distance may be entered in the rightmost column of the lower table.



# **ATTACHMENT 6**

\*\*\*\*\*

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

\*

\*\*\*\*\*

Airspace User: Mark Brauer

File: WEST\_HARTFORD\_SC\_5\_CT

Location: Hartford, CT

Latitude: 41°-45'-15.86" Longitude:  
72°-45'-59.08"

SITE ELEVATION AMSL.....166 ft.  
STRUCTURE HEIGHT.....35 ft.  
OVERALL HEIGHT AMSL.....201 ft.  
SURVEY HEIGHT AMSL.....201 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 HFD
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for 4B8
- 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: HFD: HARTFORD-BRAINARD

Type: A RD: 30601.18 RE: 13.9

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: 4B8: ROBERTSON FIELD

Type: A RD: 34491.96 RE: 201.6

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

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): DNE - No Airway Found

PRIVATE LANDING FACILITIES

ARP FAA	FACIL	BEARING	RANGE	DELTA
ELEVATION IFR	IDENT TYP NAME	To FACIL	IN NM	
-499	CT04 HEL CHASE	325.02	2.56	
	No Impact to Private Landing Facility Structure 0 ft below heliport.			
	OCT5 HEL ST FRANCIS HOSPITAL	68	3.26	+17
	No Impact to Private Landing Facility Structure is beyond notice limit by 14808 feet.			
	OCT9 HEL HARTFORD HOSPITAL	89.94	3.94	-10
	No Impact to Private Landing Facility Structure 1 ft below heliport.			
	CT73 HEL SOUTH MEADOWS	245.87	4.61	+1
	No Impact to Private Landing Facility Structure is beyond notice limit by 23011 feet.			
	CT06 HEL DELTA ONE	66.45	5.18	



+180

No Impact to Private Landing Facility  
Structure is beyond notice limit by 26474 feet.

AIR NAVIGATION ELECTRONIC FACILITIES

GRND	FAC	ST	DIST	DELTA					
ANGLE	IDNT	TYPE	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCATION
BEAR	-----								

-.03

BDL	RADAR	ON		18.79	70894		-35	CT	BRADLEY INTL
-----	-------	----	--	-------	-------	--	-----	----	--------------

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: 36 NM. This location and height is within the Radar Line-Of-Sight.

.03

BDL	VORTAC	D	109.0	17.3	71226		+41	CT	BRADLEY
-----	--------	---	-------	------	-------	--	-----	----	---------

-.51

HFD	VOR/DME	R	114.9	124.69	72679		-648	CT	HARTFORD
-----	---------	---	-------	--------	-------	--	------	----	----------

-.03

BAF	VORTAC	R	113.0	5.24	149136		-66	MA	BARNES
-----	--------	---	-------	------	--------	--	-----	----	--------

-.01

MAD	VOR/DME	R	110.4	172.81	161816		-19	CT	MADISON
-----	---------	---	-------	--------	--------	--	-----	----	---------

-.01

CEF	VORTAC	R	114.0	21.94	174176		-40	MA	WESTOVER
-----	--------	---	-------	-------	--------	--	-----	----	----------

.06

HVN	VOR/DME	R	109.8	190.24	182235		+195	CT	NEW HAVEN
-----	---------	---	-------	--------	--------	--	------	----	-----------

-.4

CTR	VOR/DME	I	115.1	345.8	201869		-1399	MA	CHESTER
-----	---------	---	-------	-------	--------	--	-------	----	---------

# **ATTACHMENT 7**

July 19, 2017

*Via Certificate of Mailing*

Shari Cantor, Mayor  
Town of West Hartford  
50 South Main Street  
West Hartford, CT 06107

**Re: Proposed Installation of a Wireless Telecommunications Facility at  
1245 Farmington Avenue, West Hartford, Connecticut**

Dear Mayor Cantor:

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 1245 Farmington Avenue in West Hartford (the “Property”). The facility will consist of a tower mast attached to the building and supporting a canister antenna and remote radio head. The mast, antenna and radio head will be concealed within a radio frequency transparent enclosure, designed to resemble a chimney. The top of the faux chimney would extend to a height of approximately 34’-9” above grade, approximately 9’-6” above the top of the roof. Additional radio equipment will be located inside the building.

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.

16680738-v1



# Robinson + Cole

Shari Cantor, Mayor  
July 19, 2017  
Page 2

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

Sincerely,



Kenneth C. Baldwin

Attachment

July 19, 2017

*Via Certificate of Mailing*

Udolf Investments, LLC  
2475 Albany Avenue, Suite 205  
West Hartford, CT 06117

Re: **Proposed Installation of a Wireless Telecommunications Facility at  
1245 Farmington Avenue, West Hartford, 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 1245 Farmington Avenue in West Hartford (the “Property”). The facility will consist of a tower mast attached to the building and supporting a canister antenna and remote radio head. The mast, antenna and radio head will be concealed within a radio frequency transparent enclosure, designed to resemble a chimney. The top of the faux chimney would extend to a height of approximately 34’-9” above grade, approximately 9’-6” above the top of the roof. Additional radio equipment will be located inside the building.

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.


16680764-v1

# Robinson + Cole

Udolf Investments, LLC  
July 19, 2017  
Page 2

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

Sincerely,



Kenneth C. Baldwin

Attachment



# **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

July 19, 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 1245 Farmington Avenue, West Hartford, 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 1245 Farmington Avenue in West Hartford (the “Property”). The facility will consist of a tower mast attached to the building and supporting a canister antenna and remote radio head. The mast, antenna and radio head will be concealed within a radio frequency transparent enclosure, designed to resemble a chimney. The top of the faux chimney would extend to a height of approximately 34’-9” above grade, approximately 9’-6” above the top of the roof. Additional radio equipment will be located inside the building. 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.

July 19, 2017  
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



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

**ABUTTING PROPERTY OWNERS**

**1245 FARMINGTON AVENUE, WEST HARTFORD, CONNECTICUT**

	<b>Property Address</b>	<b>Owner's and Mailing Address</b>
1.	1255 Farmington Avenue	Connecticut Light & Power Company Attn: Property Tax Dept. P.O. Box 270 Hartford, CT 06141-0270
2.	2181 Boulevard	Carl R. Brouillette 2181 Boulevard West Hartford, CT 06107
3.	2175 Boulevard	Judith C. Hock 2175 Boulevard West Hartford, CT 06107
4.	2171 Boulevard	Carl R. Brouillette, Et Al. 2181 Boulevard West Hartford, CT 06107
5.	2169 Boulevard	Frederick M. Fitzpatrick, Jr. 2169 Boulevard West Hartford, CT 06107
6.	3 Shady Brook Drive	George Lundberg III 3 Shady Brook Drive West Hartford, CT 06107
7.	2151 Boulevard	Robert Fromer Tr. 2151 Boulevard West Hartford, CT 06107
8.	1235 Farmington Avenue	Udolf Family Enterprises LLC c/o AFS – Lease Accounting P.O. Box 17013 – 6500 Carlisle, PA 17013-6500
9.	1234 Farmington Avenue	Udolf Investments LLC 2475 Albany Avenue, Suite 205 West Hartford, CT 06117

	<b>Property Address</b>	<b>Owner's and Mailing Address</b>
10.	1240 Farmington Avenue	Stonemeadow Realty LLC c/o JRI Advisors 10 Executive Drive Farmington, CT 06032
11.	1248 Farmington Avenue	BFN Westgate LLC 3333 East Bayaud #318 Denver, CO 80209