

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
A PETITION OF CELLCO PARTNERSHIP	:	SUB-PETITION NO. 1133
D/B/A VERIZON WIRELESS FOR A	:	330 BISHOP STREET
DECLARATORY RULING ON THE NEED TO	:	WATERBURY, CONNECTICUT
OBTAIN A SITING COUNCIL CERTIFICATE	:	
FOR THE INSTALLATION OF A SMALL	:	
CELL TELECOMMUNICATIONS FACILITY	:	
ON THE ROOF OF THE BUILDING AT 330	:	
BISHOP STREET, WATERBURY,	:	
CONNECTICUT	:	AUGUST 17, 2015

SUB-PETITION FOR DECLARATORY RULING:
ELIGIBLE FACILITIES REQUEST FOR MODIFICATIONS
THAT WILL NOT SUBSTANTIALLY CHANGE THE
PHYSICAL DIMENSIONS OF AN EXISTING BASE STATION

I. Introduction

Pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. § 1455(a) (“Section 6409(a)”) and the October 21, 2014 Report and Order (FCC-14-533) issued by the Federal Communications Commission (“FCC”) (the “FCC Order”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Sub-Petition”) that the installation of a new telecommunications facility on the roof of a six-story residential apartment building at 330 Bishop Street in Waterbury, Connecticut (the “Property”) constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Waterbury Fulton Facility”.

II. Factual Background

The Property is an approximately 1.4-acre parcel in Waterbury’s RM (Moderate Density

Residential) zone and is surrounded by residential uses to the east, west and south and Fulton Park to the north. The Property is owned by Waterbury Omega LLC. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). Currently, AT&T Wireless, Sprint and T-Mobile all maintain antennas on the roof of this building. T-Mobile antennas are located inside an antenna concealment stack adjacent to the elevator penthouse; Sprint antennas are mounted to the façade of the penthouse; and AT&T antennas are installed inside individual concealment tubes on the roof of the building. AT&T and Sprint equipment is located on the ground, within a fenced compound, on the south side of the building. Under the terms of the FCC Order, the building roof-top, therefore, constitutes an existing wireless “base station”.¹

III. Cellco’s Proposed Waterbury Fulton Facility

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Waterbury and throughout the State of Connecticut. Cellco’s Waterbury Fulton Facility will provide wireless service in all of Cellco’s licensed frequency ranges and is designed to off-load network traffic from Cellco’s existing Waterbury, Waterbury Central and Waterbury 2 cell sites.

Cellco’s proposed Waterbury Fulton Facility would consist of eight (8) panel antennas, each attached to an individual pipe mast on the roof of the building. Cellco will also install six (6) remote radio heads (“RRHs”) on the roof behind its antennas. Similar to the AT&T installation, each of Cellco’s antennas and RRHs will be located inside its own RF transparent concealment tube. The top of Cellco’s antennas and concealment tubes will extend eight (8) feet above the roof parapet, (approximately 69.8 feet above ground level (“AGL”)).

¹ Pursuant to the FCC Order the definition of “base station” includes any “structure that currently supports or houses an antenna, transceiver, or other associated equipment . . .”. FCC Order para. 172.

Equipment associated with Cellco's antennas will be located inside two cabinets, mounted on a steel platform in the center of the roof. Power and telephone service will extend from existing service inside the building. Cellco will also install a 35 kW back-up generator on the ground inside the existing fenced equipment compound. Project Plans for the Waterbury Fulton Facility are included in Attachment 2. Specifications for the antennas, RRHs and back-up generator are included in Attachment 3. A Structural Feasibility Letter, confirming that the roof of the building can support Cellco's antennas and related equipment is included in Attachment 4.

IV. Discussion

A. The Proposed Modification Will Not Cause a Substantial Change to the Physical Dimensions of the Existing Base Station

Section 6409(a) provides, in relevant part, that "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." Pursuant to the FCC Order, the proposed modification does not substantially change the physical dimensions of the base station if the following criteria are satisfied.

1. *The proposed modified facility will not increase the height of the base station by more than ten (10) percent or ten (10) feet, whichever is greater.* Cellco's proposed mast-mounted antennas will extend only eight (8) feet above the existing roof parapet and will remain below the height of the existing penthouse and T-Mobile's stack antenna enclosure.
2. *The proposed facility modification will not protrude from the edge of the structure more than six (6) feet.* Cellco's proposed antennas and equipment cabinets will be located on the roof of the building and will not protrude from the edge of the structure.
3. *The proposed facility does not involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four*

cabinets. Cellco intends to install two equipment cabinets on the roof to house its small cell equipment.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* With the exception of the proposed generator, all of Cellco's facility improvements will be located on the roof of the building. The generator will be placed on a small concrete pad inside the existing facility compound. Minimal additional excavation or site development will occur on the ground and all improvements will within the limits of the Property.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* Cellco's antennas will be installed inside RF transparent concealment tubes similar to those utilized by AT&T and would be consistent with the concealment efforts of the other carriers on the roof.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* The AT&T, Sprint and T-Mobile roof-top facilities at the Property were approved by the City of Waterbury. None of the elements of Cellco's proposed Waterbury Fulton Facility conflict with any of the existing wireless base station improvements and appear to be consistent with the previous City of Waterbury approvals.

B. FCC Compliance

Radio frequency ("RF") emissions from Cellco's proposed installation will be far below the standards adopted by the FCC. Included in Attachment 5 are Far Field Approximation tables for each of Cellco's operating frequencies. These tables indicate that Cellco's proposed antennas would operate well within the FCC's safety standards.

C. Notice to the City, Property Owner and Abutting Landowners

On August 17, 2015, a copy of this Sub-Petition was sent to Waterbury's Mayor Neil M. O'Leary and Waterbury Omega LLC, the owner of the Property. See Attachment 6. A copy of this Sub-Petition was also sent to the owners of land that abuts the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent notice of the filing of the Sub-Petition is included in Attachment 7.

V. Conclusion

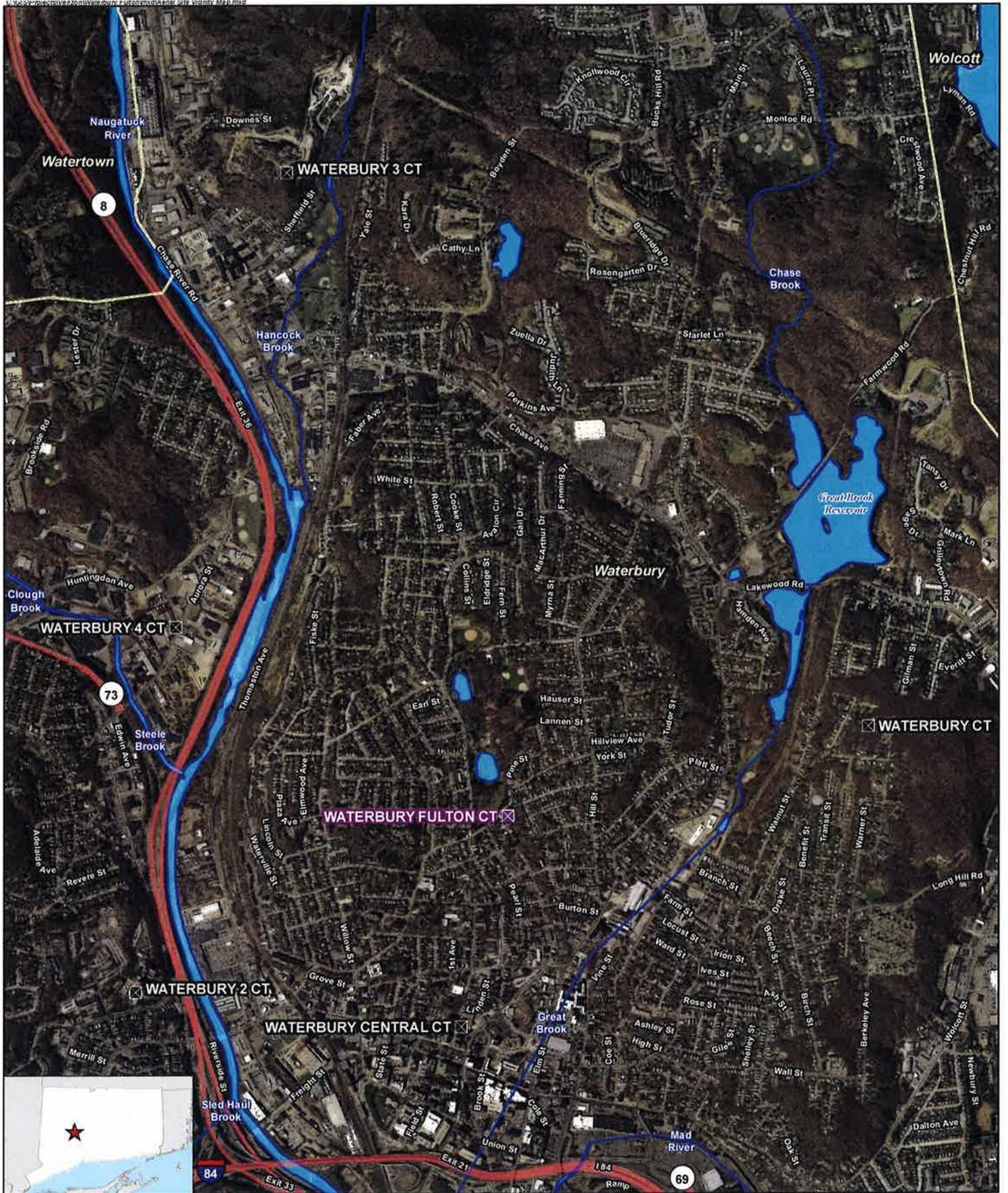
Based on the information provided above, Cellco respectfully submits that the proposed modification of the existing base station at the Property constitutes an "eligible facilities request" under Section 6409(a) and the FCC Order.

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



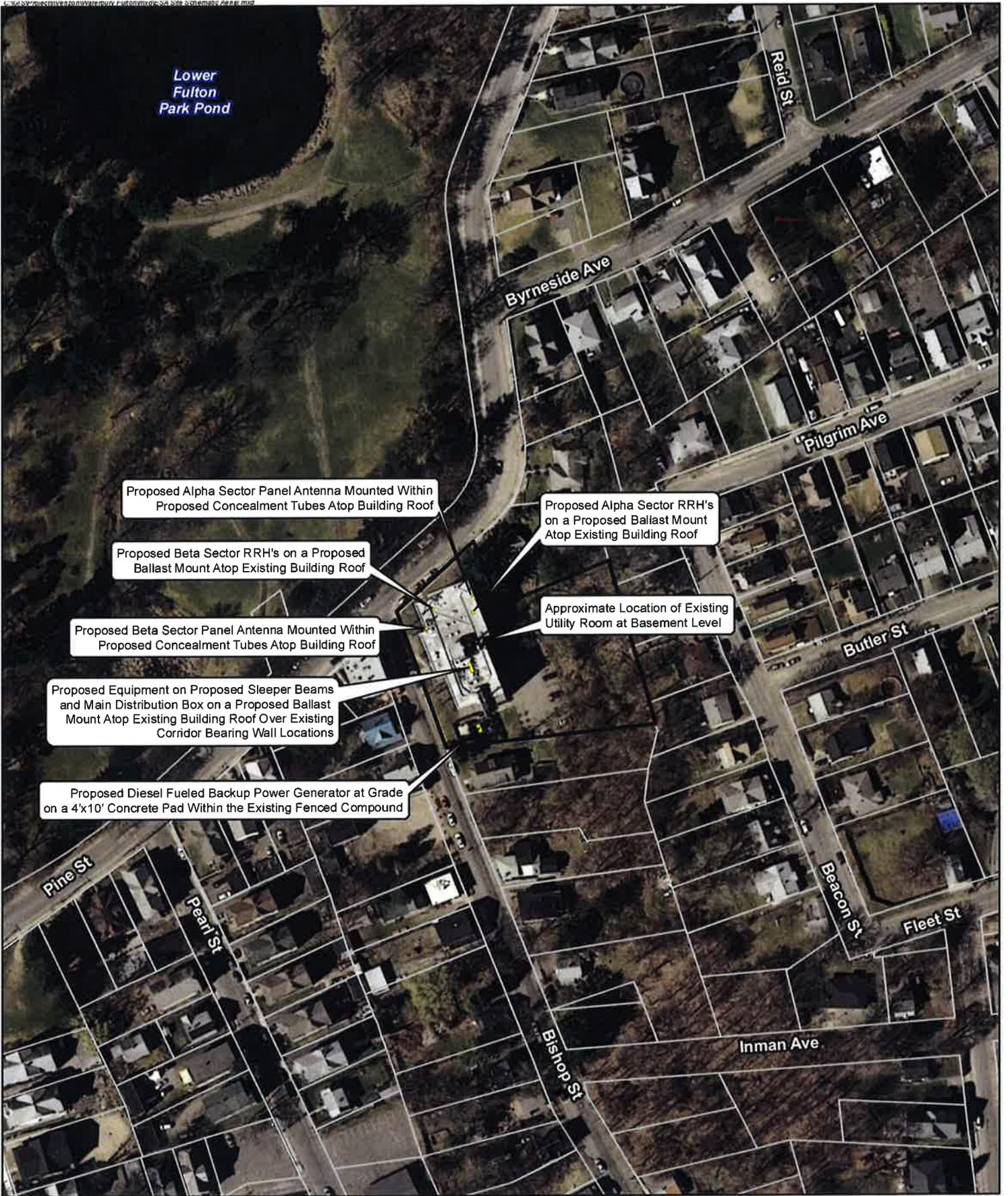
Legend

- Proposed Verizon Wireless Facility
- Surrounding Verizon Wireless Facilities
- Watercourse (CTDEEP)
- Waterbody (CTDEEP)
- Municipal Boundary



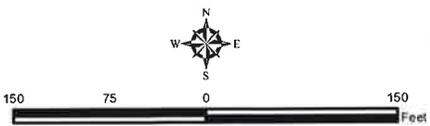
Site Vicinity Map

Proposed Wireless Telecommunications Facility
 Waterbury Fulton CT
 330 Bishop Street
 Waterbury, Connecticut



- Legend**
-  Host Property
 -  Proposed Facility Equipment
 -  Approximate Parcel Boundary (CTDEEP GIS)

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



Site Schematic

Proposed Wireless
 Telecommunications Facility
 Waterbury Fulton CT
 330 Bishop Street
 Waterbury, Connecticut



ATTACHMENT 2

Cellco Partnership

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

WIRELESS COMMUNICATIONS FACILITY WATERBURY FULTON 330 BISHOP STREET WATERBURY, CT 06704

SITE INFORMATION

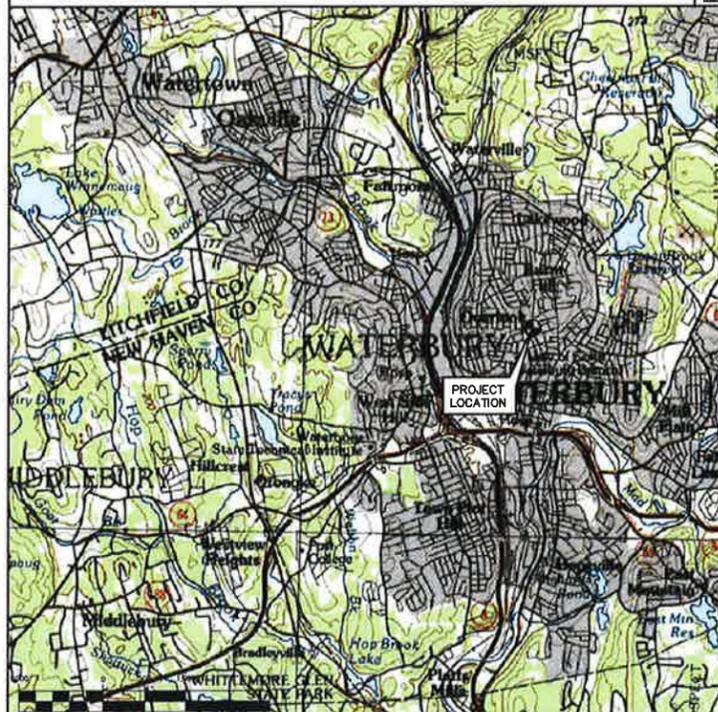
1. THE GENERAL SCOPE OF WORK CONSISTS OF THE INSTALLATION OF A DIESEL FUELED BACKUP POWER GENERATOR WITHIN EXISTING COMPOUND AT GRADE LEVEL.
2. PROPOSED CELCO PARTNERSHIP EQUIPMENT TO BE INSTALLED ON PROPOSED SLEEPER BEAMS ATOP EXISTING BUILDING ROOF.
3. THE PROPOSED CELCO PARTNERSHIP ANTENNA INSTALLATION TO CONSIST OF (2) SECTORS OF (4) ANTENNAS EACH FOR A TOTAL OF (8) ANTENNAS.
4. PROPOSED ANTENNAS TO BE MOUNTED WITHIN PROPOSED CONCEALMENT TUBES ATOP BUILDING ROOF. PROPOSED CONCEALMENT TUBES TO MATCH SIZE AND COLOR OF THE EXISTING ANTENNA CONCEALMENT TUBES.
5. POWER & TELCO UTILITIES SHALL BE ROUTED FROM DEMARCS LOCATED WITHIN THE EXISTING BUILDING TO THE PROPOSED EQUIPMENT SHELTER.
6. THE SITE SHALL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT, INCLUDING THE IA/EIA-222 REVISION "F" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2005 CONNECTICUT FIRE SAFETY CODE AND 2009 AMENDMENTS, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
7. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
8. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.

SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE, E. HARTFORD, CT. TO: 330 BISHOP STREET, WATERBURY, CT	
1. Head east on E River Dr toward Darlin St	0.3 mi
2. Turn left to stay on E River Dr	422 ft
3. Take the 1st left onto Connecticut Blvd	0.1 mi
4. Turn left to merge onto I-84	29.4 mi
5. Take exit 22 toward Downtown	0.3 mi
6. Turn left onto Union St	0.4 mi
7. Take 2nd right onto S Elm St	0.5 mi
8. Turn left onto N Main St	211 ft
9. Take the 1st right onto Bishop St. Destination will be on the right	0.5 mi

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

SITE NAME:	WATERBURY FULTON
SITE ADDRESS:	330 BISHOP STREET WATERBURY, CT 06704
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	CHRIS BISSON CELCO PARTNERSHIP (203) 217-6200
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE LLP (860) 257-8345
SITE COORDINATES:	LATITUDE: 41°-34'-00.286"N LONGITUDE: 73°-02'-17.870"W GROUND ELEVATION: ±490.0' 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 JULY 13, 2015.

LEGEND

SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER SHEET WHERE ELEVATION OCCURS

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
C-1	ABUTTERS MAP	0
C-2	ROOF PLAN/ PARTIAL SITE PLAN, ELEVATION AND DETAILS	0

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. **verizon** wireless

CEN^{TEK} engineering
Centered on Solutions

(203) 488-0580
(203) 488-9587 Fax
10-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

WATERBURY FULTON

330 BISHOP STREET
WATERBURY, CT 06704

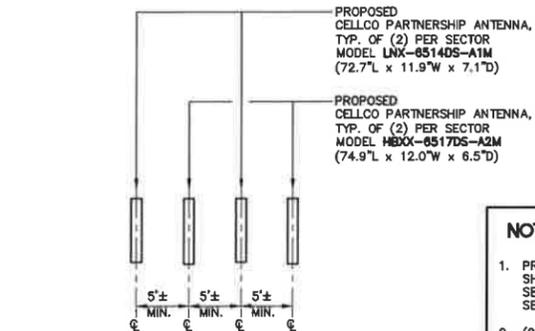
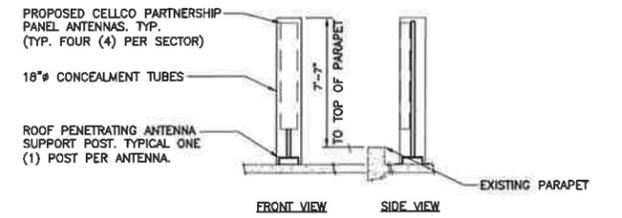
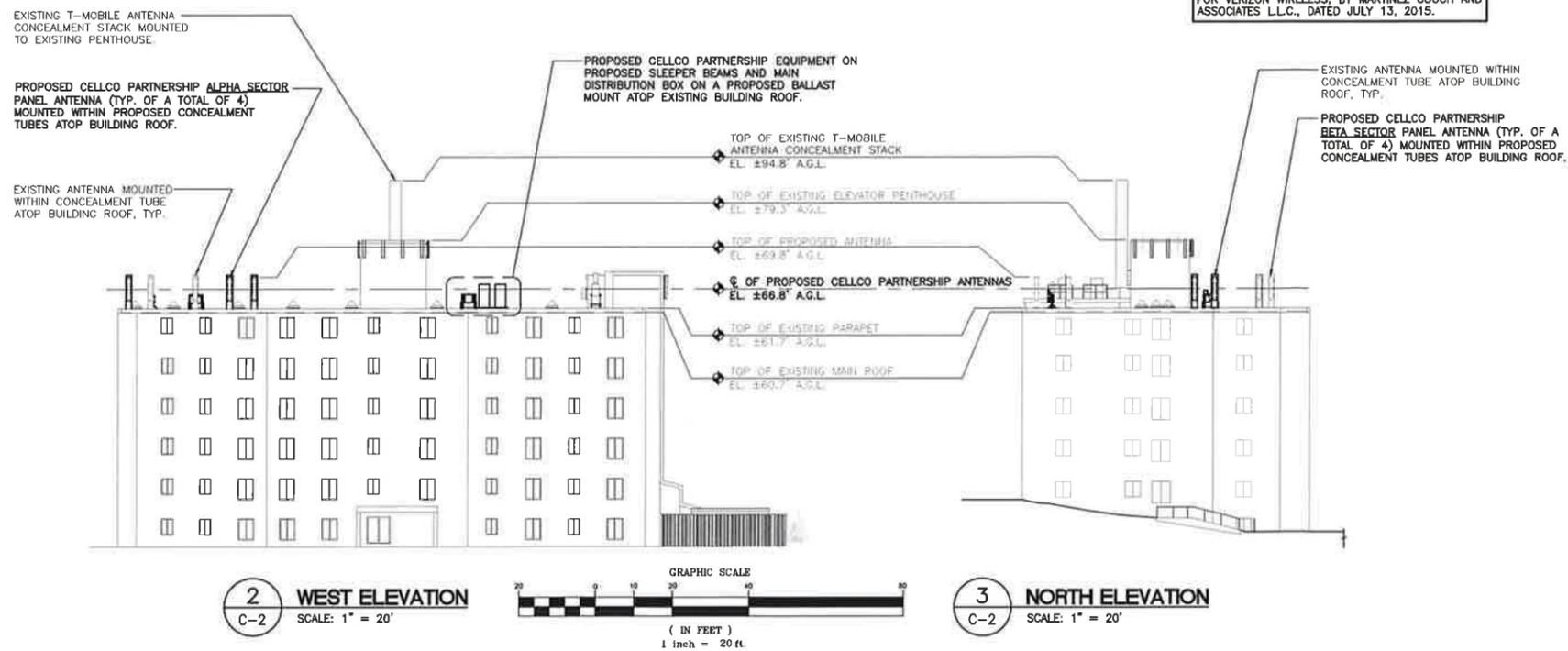
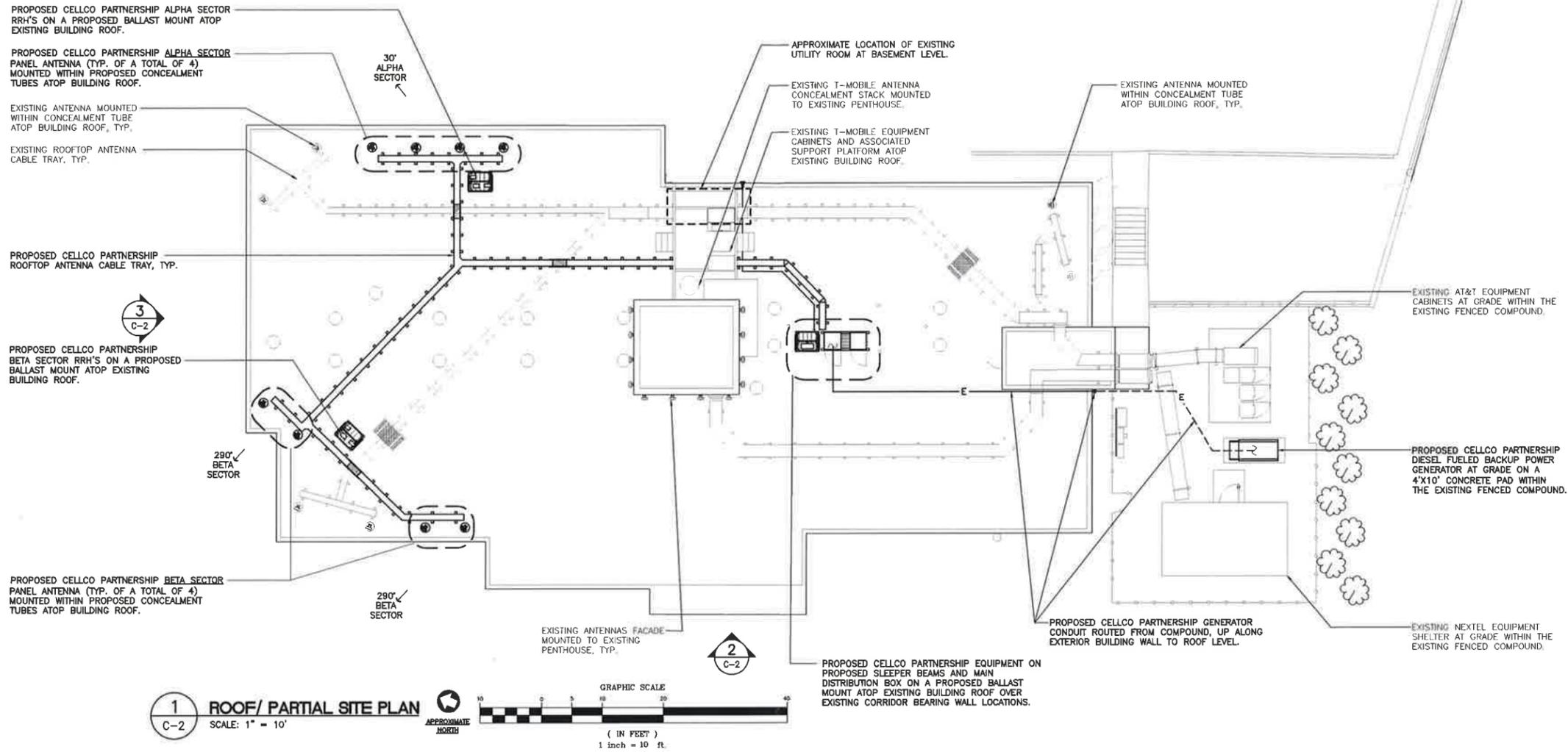
DATE: 08/13/15
SCALE: AS NOTED
JOB NO. 15068.000

TITLE SHEET

T-1

Sheet No. 1 of 3

REV. DATE DRAWN BY CHK'D BY DESCRIPTION
0 08/13/15 JTD
CSC DRAWINGS - ISSUED FOR CLIENT REVIEW



NOTES

- PROPOSED ANTENNA SPACING DIMENSIONS SHOWN ARE MINIMUM ANTENNA AZIMUTH SEPARATIONS. ACTUAL ANTENNA MOUNT SEPARATIONS TO BE VERIFIED IN FIELD.
- (2) SECTORS OF (4) ANTENNAS EACH OF A TOTAL OF (8) ANTENNAS AND ASSOCIATED APPURTENANCES ARE PROPOSED TO BE INSTALLED.

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENITEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WATERBURY FULTON
350 BISHOP STREET
WATERBURY, CT 06704

DATE: 08/13/15
SCALE: AS NOTED
JOB NO. 15068.000
ROOF PLAN/
PARTIAL SITE PLAN,
ELEVATION AND
DETAILS

C-2
Sheet No. 3 of 3

REV.	DATE	DRAWN BY	CHKD BY	DESCRIPTION
0	08/13/15	JTD	DND	CSC DRAWINGS - ISSUED FOR CLIENT REVIEW

ATTACHMENT 3

Product Specifications

COMMSCOPE®

LNX-6514DS-VTM

Andrew® Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

POWERED BY



Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	15.7	16.3
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal Tolerance, degrees	±3	±3
Beamwidth, Vertical, degrees	12.5	11.2
Beam Tilt, degrees	0–10	0–10
USLS, typical, dB	17	18
Front-to-Back Ratio at 180°, dB	32	30
CPR at Boresight, dB	20	20
CPR at Sector, dB	10	10
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1847.0 mm x 301.0 mm x 181.0 mm 72.7 in x 11.9 in x 7.1 in
Net Weight	17.6 kg 38.8 lb
Model with factory installed AISG 2.0 RET	LNX-6514DS-A1M



Product Specifications



HBXX-6517DS-VTM

Andrew® Quad Port Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Superior azimuth tracking and pattern symmetry with excellent passive intermodulation suppression

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.0	19.1	19.2
Beamwidth, Horizontal, degrees	67	66	65
Beamwidth, Vertical, degrees	5.0	4.7	4.4
Beam Tilt, degrees	0–6	0–6	0–6
USLS, dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	21	22	21
CPR at Sector, dB	10	11	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	18.5	18.6	18.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0° 18.4	0° 18.4	0° 18.7
	3° 18.7	3° 18.7	3° 18.9
	6° 18.4	6° 18.5	6° 18.6
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.7	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3
USLS, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26
CPR at Boresight, dB	22	23	22
CPR at Sector, dB	10	10	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 Brand	Andrew®
Antenna Type	DualPol® quad
Band	Single band
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2180 MHz

Product Specifications

COMMSCOPE®

HBXX-6517DS-VTM



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, maximum	668.0 N @ 150 km/h 150.2 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1903.0 mm 74.9 in
Width	305.0 mm 12.0 in
Net Weight	19.5 kg 43.0 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-6517DS-A2M
RET System Teletilt®

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 B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R 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.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a 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 B13 RRH4x30-4R 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.

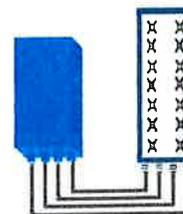


FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz 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 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R

Can be switched between
modes via SW w/o site
visit

TECHNICAL SPECIFICATIONS

Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz – 1 LTE carrier (In 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure – RX Diversity scheme	2 dB typ. (<2.5 dB max) – 2 or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (in 2Tx or 4Tx mode)
Environmental conditions	-40°C (-40°F) / +55°C (+131°F)
Wind load (@150km/h or 93mph)	IP65 Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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 © 2014 Alcatel-Lucent. All Rights Reserved

PCS RF MODULES

RRH1900 2X60 - HW CHARACTERISTICS

LA6.0.1/13.3

RRH2x60	
RF Output Power	2x60W
Instantaneous Bandwidth	20MHz
Transmitter	2 TX
Receiver	2 Branch RX – LA6.0.1 4 Branch RX – LR13.3
Features	AISG 2.0 for RET/TMA Internal Smart Bias-T
Power	-48VDC
CPRI Ports	2 CPRI Rate 3 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (top mounted)



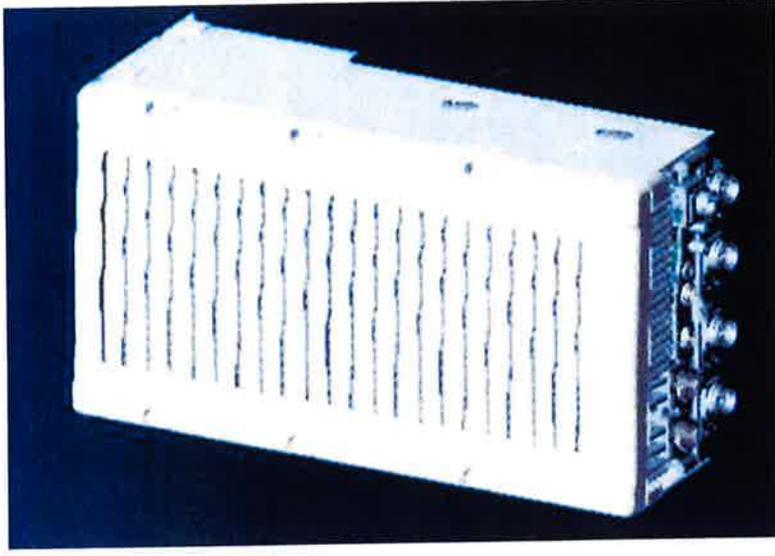
** Not a Verizon Wireless deployed product

ALCATEL-LUCENT – CONFIDENTIAL – SOLELY FOR AUTHORIZED PERSONS HAVING A NEED TO KNOW – PROPRIETARY – USE PURSUANT TO COMPANY INSTRUCTION

NEW PCS RF MODULES FOR VZW RRH2X60 - HW CHARACTERISTICS

LR14.3

RRH2x60	
RF Output Power	2x60W (4x30W HW Ready)
Instantaneous Bandwidth	60MHz
Target Reliability (Annual Return Rate)	<2%
Receiver	4 Branch Rx
Features	AISG 2.0 for RET/TMA
Power	-48VDC Internal Smart Bias-T
CPRI Ports	2 CPRI Rate 5 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX, RX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (downward facing)
Dimensions	22"(h) x 12"(w) x 9.4" (d)**
Weight	55lb**



** - Includes solar shield but not mounting brackets (8 lbs.)

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the 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 a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-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 RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

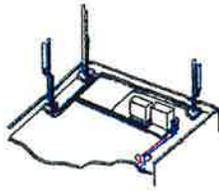
The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

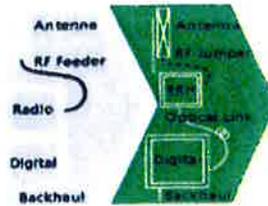
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

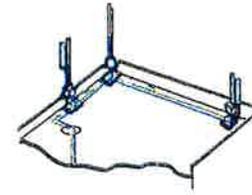
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

- silent solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

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 © 2012 Alcatel-Lucent. All rights reserved. M2012XXXXXX (March)

AT THE SPEED OF IDEAS™

Alcatel-Lucent 

ATTACHMENT 4

April 29, 2015

Mr. Brian Paul
Verizon Wireless
99 East River Drive
East Hartford, Connecticut 06108

Re: Structural Feasibility Letter
Verizon Wireless Site Waterbury Fulton
330 Bishop Street
Waterbury, Connecticut

CEN TEK Project No. 15068.000

Dear Mr. Paul,

This letter is to confirm the structural feasibility of constructing the proposed wireless communications facility at the referenced property. No structural documentation of the existing building was available. Site visits by Centek personnel were conducted on 03/11/2015 and 04/07/2015 for the purpose of documenting existing structural member sizes and configurations. A preliminary structural analysis was prepared for use in making a final recommendation.

The host building is a 6-story concrete framed structure currently utilized as residential apartment space. The first level is at grade. The 2nd floor level through roof level decks consist of a concrete slab atop interior and exterior concrete masonry unit (CMU) bearing walls. Of particular concern was the concrete roof slab to be utilized for support of the proposed equipment and battery cabinets. Slab depth and reinforcement steel configurations could not be determined.

Conservative assumptions were made to determine the required slab characteristics necessary to support code prescribed loading. Based on the age of the building, a conservative concrete strength of 3,000 psi and minimum reinforcement requirements per ACI were assumed for the purpose of analyzing the structure. Due to a lack of information on existing conditions, the proposed equipment will be centered atop the east most corridor CMU bearing wall below.

The weight of the Verizon equipment and steel frame along with applicable wind, snow and occupant loadings will be transferred to the structural bearing of the host building through the aforementioned slab and bearing wall. The slab and CMU wall capacities were verified utilizing the existing building dead and live loads in conjunction with the total cabinet loads of 4 kips.

Centek Engineering, Inc. will prepare sealed design documents for the proposed unmanned wireless communications facility located on the roof of the 6-story host building. The final design will comply with the requirements of the 2005 Connecticut State Building Code with most current supplements. Should modifications to the existing structure be warranted to accommodate the proposed installation, it is our opinion that they could be implemented without adverse effect to

CEN TEK engineering, INC.
Structural Certification Letter
Verizon Wireless ~ Waterbury Fulton
330 Bishop Street
Waterbury, Connecticut

the existing facility operations. In conclusion, our preliminary analysis finds that the proposed Verizon Wireless facility will not adversely affect the structural integrity of the host building.

Respectfully Submitted by:

Prepared by:



Carlo F. Centore, PE
Principal ~ Structural Engineer



Luigi V. Peronace,
Structural Engineer

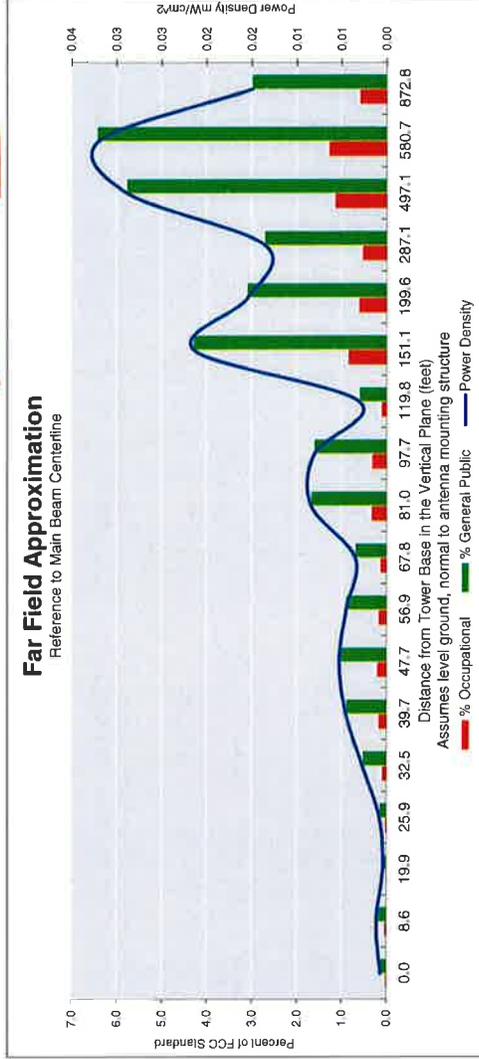
ATTACHMENT 5

Far Field Approximation
with downtilt variation

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



Location:	WATERBURY FULTON CT
Site #:	2-0246
Date:	07/24/15
Name:	Jaime Laredo
File Name:	WATERBURY FULTON CT - FF POWER (LTE-700).xlsx
Operating Freq. (MHz):	746.0
Antenna Height (ft):	64.0
Antenna Gain (dBi):	15.9
Antenna Size (in.):	72.7
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
ERP (w):	1343.7
Number of Channels:	1



Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	61.0	61.6	64.2	66.3	69.1	72.8	77.4	83.4	91.2	101.4	115.2	134.4	162.9	208.7	293.5	500.8	583.9	874.9
Distance from Antenna Structure Base in Horizontal plane	0.0	8.6	19.9	25.9	32.5	39.7	47.7	56.9	67.8	81.0	97.7	119.8	151.1	199.6	287.1	497.1	580.7	872.8
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	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
Reflection Coefficient (1 to 4, 2.56 typical)	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
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.02	0.02	0.01	0.03	0.03	0.01
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.3	0.3	0.1	0.9	0.6	0.5	1.2	1.3	0.6
Percent of General Population Standard	0.1	0.2	0.1	0.2	0.5	0.9	1.1	0.9	0.7	1.7	1.6	0.6	4.3	3.1	2.7	5.8	6.4	3.0

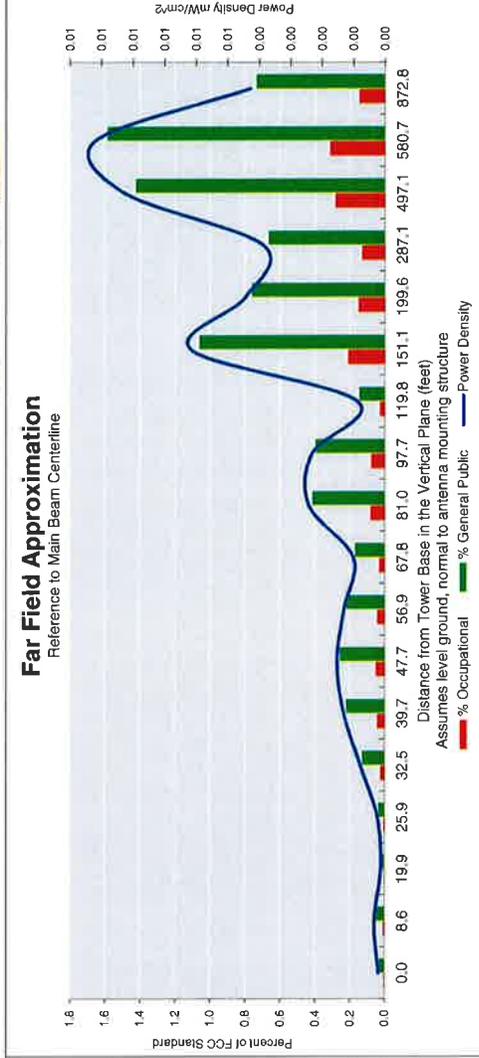
Antenna Type: LNX-6514DS-A1M
Max%: 6.43%

Far Field Approximation
with downtilt variation



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

Location:	WATERBURY FULTON CT
Site #:	2-0246
Date:	07/24/15
Name:	Jaime Laredo
File Name:	WATERBURY FULTON CT - FF POWER (Cellular).xlsx
Operating Freq. (MHz):	869.0
Antenna Height (ft):	64.0
Antenna Gain (dBi):	16.0
Antenna Size (in.):	72.7
Downtilt (Degrees):	2.0
Feedline Loss (dB):	0.0
ERP (W):	374.8
Number of Channels:	9



Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	61.0	61.6	64.2	66.3	69.1	72.8	77.4	83.4	91.2	101.4	115.2	134.4	162.9	208.7	293.5	500.8	583.9	874.9
Distance from Antenna Structure Base in Horizontal plane	0.0	8.6	19.9	25.9	32.5	39.7	47.7	56.9	67.8	81.0	97.7	119.8	151.1	199.6	287.1	497.1	580.7	872.8
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	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
Reflection Coefficient (1 to 4, 2.56 typical)	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
Power Density (mW/cm ²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.2	0.1	0.3	0.3	0.1
Percent of General Population Standard	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.2	0.4	0.4	0.1	1.1	0.8	0.7	1.4	1.6	0.7

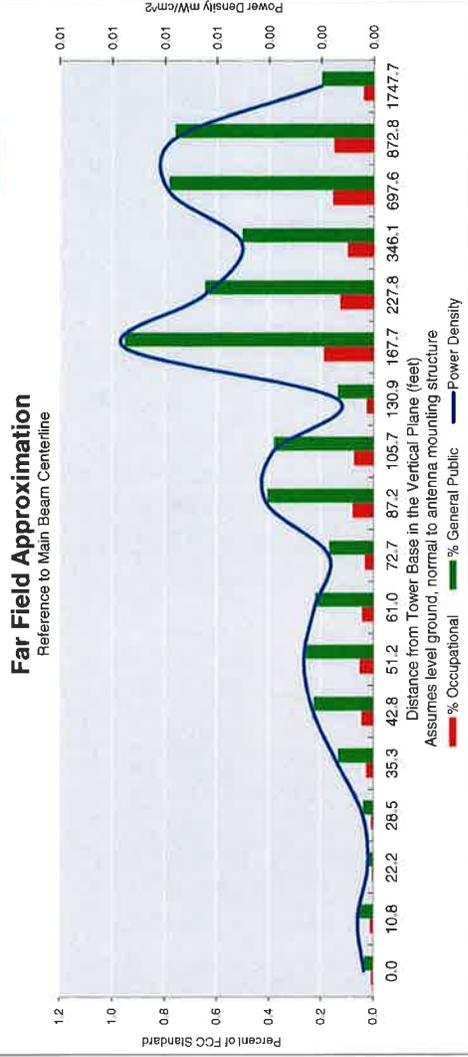
Antenna Type: LNX-6514DS-A1M
Max%: 1.59%

Far Field Approximation
with downtilt variation

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



Location:	WATERBURY FULTON CT
Site #:	2-0246
Date:	07/24/15
Name:	Jaime Laredo
File Name:	WATERBURY FULTON CT - FF POWER (PCS).xlsx
Operating Freq. (MHz):	1970.0
Antenna Height (ft):	64.0
Antenna Gain (dBi):	18.2
Antenna Size (m):	74.9
Downtilt (degrees):	0.0
Feedline Loss (dB):	0.9
ERP (w):	521.0
Number of Channels:	7



Calc Angle	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
Solve for r, dk to antenna	61.0	61.9	64.9	67.3	70.5	74.5	79.7	86.3	94.9	106.4	122.1	144.4	178.4	235.8	351.5	700.3	874.9	1748.8
Distance from Antenna Structure Base in Horizontal plane	0.0	10.8	22.2	28.5	35.3	42.8	51.2	61.0	72.7	87.2	105.7	130.9	167.7	227.8	346.1	697.6	872.8	1747.7
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	36.76	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)	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.2	0.0
Percent of General Population Standard	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.2	0.4	0.4	0.1	1.0	0.6	0.5	0.8	0.8	0.2

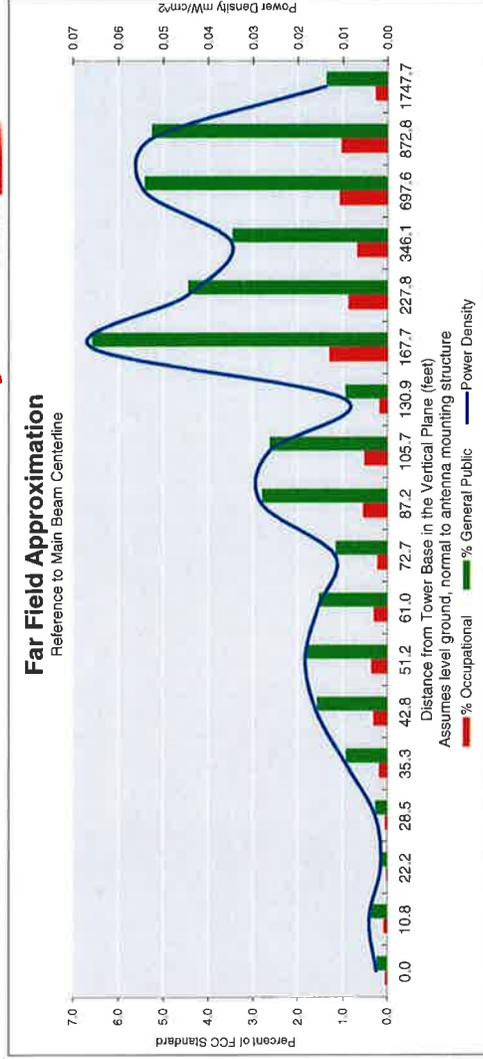
Antenna Type: HBXX-651705-A2M
Max%: 0.96%

Far Field Approximation
with downtilt variation

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



Location:	WATERBURY FULTON CT
Site #:	2-0246
Date:	07/24/15
Name:	Jaime Laredo
File Name:	WATERBURY FULTON CT - FF POWER (LTE-AWS).xlsx
Operating Freq. (MHz):	2145.0
Antenna Height (ft):	64.0
Antenna Gain (dBi):	18.9
Antenna Size (m):	74.9
Downtilt (degrees):	0.0
Feedline Loss (dB):	0.2
ERP (w):	2617.9
Number of Channels:	1



Calc Angle	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
Solve for r, dht to antenna	61.0	61.9	64.9	67.3	70.5	74.5	79.7	86.3	94.9	106.4	122.1	144.4	178.4	235.8	351.5	700.3	874.9	1748.8
Distance from Antenna Structure Base in horizontal plane	0.0	10.8	22.2	28.5	35.3	42.8	51.2	61.0	72.7	87.2	105.7	130.9	167.7	227.8	346.1	697.6	872.8	1747.7
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (reference to centerline)	36.76	34.35	38.52	35.34	29.54	26.8	25.59	25.63	25.99	21.21	20.29	23.24	13.09	12.3	9.92	2	0.2	0
Reflection Coefficient (1 to 4, 2.56 typical)	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
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.01	0.03	0.03	0.01	0.07	0.04	0.03	0.05	0.05	0.01
Percent of Occupational Standard	0.0	0.1	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.6	0.5	0.2	1.3	0.9	0.7	1.1	1.1	0.3
Percent of General Population Standard	0.2	0.4	0.1	0.3	0.9	1.6	1.8	1.5	1.2	2.8	2.6	1.0	6.6	4.5	3.5	5.4	5.3	1.4

Antenna Type: HBXX-6517DS-A2M

Max%: 6.59%

ATTACHMENT 6

August 17, 2015

Via Certificate of Mailing

Neil M. O’Leary, Mayor
City Hall
235 Grand Street
Waterbury, CT 06702-1983

**Re: Proposed Modifications to Telecommunications Facility at 330 Bishop Street,
Waterbury, Connecticut**

Dear Mayor O’Leary:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to share the wireless base station facility and install antennas on the roof of the building at 330 Bishop Street in Waterbury, Connecticut (the “Property”).

Cellco plans to install eight (8) antennas and six (6) remote radio heads (RRHs) on the roof of the building. Each antenna and RRH will be located inside a concealment tube. Equipment associated with Cellco’s antennas will be located inside two (2) cabinets installed on the roof. A diesel-fueled back-up generator will be located on the ground inside the existing fenced area to the south of the building.

As presented in the Sub-Petition, the proposed facility improvements at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

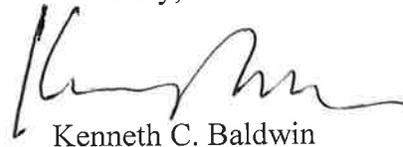
Robinson + Cole

Neil M. O'Leary
August 17, 2015
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Ken Baldwin', written over a light blue horizontal line.

Kenneth C. Baldwin

Attachment

Copy to:

James A. Sequin, AICP, City Planner

August 17, 2015

Via Certificate of Mailing

Waterbury Omega LLC
330 Bishop Street
Waterbury, CT 06704

Re: **Proposed Modifications to Telecommunications Facility at 28 Great Oak Lane,
Redding, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to share the wireless base station facility and install antennas on the roof of the building at 330 Bishop Street in Waterbury, Connecticut (the “Property”).

Cellco plans to install eight (8) antennas and six (6) remote radio heads (RRHs) on the roof of the building. Each antenna and RRH will be located inside a concealment tube. Equipment associated with Cellco’s antennas will be located inside two (2) cabinets installed on the roof. A diesel-fueled back-up generator will be located on the ground inside the existing fenced area to the south of the building.

As presented in the Sub-Petition, the proposed facility improvements at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

14081254-v1

Robinson + Cole

Waterbury Omega LLC

August 17, 2015

Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', is written over a printed name.

Kenneth C. Baldwin

Attachment

ATTACHMENT 7

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

August 17, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: **Sub-Petition for Declaratory Ruling Filed with the Connecticut Siting Council for Modifications to a Telecommunications Facility at 28 Great Oak Lane, Redding, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to share the wireless base station facility and install antennas on the roof of the building at 330 Bishop Street in Waterbury, Connecticut (the “Property”).

Cellco plans to install eight (8) antennas and six (6) remote radio heads (RRHs) on the roof of the building. Each antenna and RRH will be located inside a concealment tube. Equipment associated with Cellco’s antennas will be located inside two (2) cabinets installed on the roof. A diesel-fueled back-up generator will be located on the ground inside the existing fenced area to the south of the building. A copy of the full Sub-Petition is attached for your review.

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the Sub-Petition.

August 17, 2015
Page 2

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 Sub-Petition, the Council's process for reviewing the Sub-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.

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

330 BISHOP STREET, WATERBURY, CONNECTICUT

	Property Address	Owner's and Mailing Address
1.	Cooke Street	City of Waterbury Fulton Park 235 Grand Street Waterbury, CT 06702
2.	378 Pine Street	Suzanne Bostick 173 Driftwood Lane Trumbull, CT 06611
3.	53 North Beacon Street	Chester Bennett 53 North Beacon Street Waterbury, CT 06704
4.	47 North Beacon Street	Philip and Paula E. Caron, Surv. 47 North Beacon Street Waterbury, CT 06704
5.	39 North Beacon Street	Leonel Morejon 39 North Beacon Street Waterbury, CT 06704
6.	33 North Beacon Street	Brendaliz Castillo 33 North Beacon Street Waterbury, CT 06704
7.	322 Bishop Street	Mary L. Montiero 322 Bishop Street Waterbury, CT 06704-3327
8.	315 Bishop Street	J&R Investments LLC 17 Hewlett Street Waterbury, CT 06710
9.	323 Bishop Street	Sarah Burnham 16 Rye Street #1 Waterbury, CT 06706
10.	331 Bishop Street	Illana Moshe 419 Whalley Avenue New Haven, CT 06511