

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

| | | |
|----------------------------------|---|-----------------------|
| IN RE: | : | |
| | : | |
| A PETITION OF CELLCO PARTNERSHIP | : | SUB-PETITION NO. 1133 |
| D/B/A VERIZON WIRELESS FOR A | : | 31 CHESTNUT HILL ROAD |
| DECLARATORY RULING FOR | : | COLCHESTER, CT |
| APPROVAL OF AN ELIGIBLE FACILITY | : | |
| REQUEST FOR MODIFICATIONS TO AN | : | |
| EXISTING TELECOMMUNICATIONS | : | |
| TOWER AT 31 CHESTNUT HILL ROAD, | : | |
| COLCHESTER, CONNECTICUT | : | MAY 20, 2015 |

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

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 proposed modifications to an existing SBA Towers Inc. (“SBA”) tower at 31 Chestnut Hill Road in Colchester, Connecticut constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Colchester SC2 Facility”.

II. Factual Background

SBA maintains a 180-foot monopole tower in the southwest corner on a 40.25-acre parcel at 31 Chestnut Hill Road in Colchester (the “Property”). See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). The existing tower is shared by Sprint with antennas at

the 177-foot level and T-Mobile with antennas at the 164.5-foot level. Equipment associated with the Sprint and T-Mobile antennas is located within a 70' x 70' fenced compound area.

III. Proposed Colchester SC2 Facility

Cellco will install a total of two (2) antennas and two (2) remote radio heads (“RRHs”) on the existing tower at a height of 60 feet above ground level (“AGL”). Cellco will also install an equipment cabinet on an 8' x 8' concrete pad within the existing facility compound. Power and telephone service will extend from the existing utility backboard at the tower site. Project Plans for the Colchester SC2 Facility are included in Attachment 2. Specifications for Cellco’s antennas and RRHs are included in Attachment 3. A Structural Analysis confirming that the tower can accommodate Cellco’s proposed small cell 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 Tower or 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 tower or base station if the following criteria are satisfied.

1. *The proposed modified facility will not increase the height of the tower by more than ten (10) percent or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty (20) feet, whichever is greater.* Cellco proposes to install its antennas and RRHs at the 60-foot level on the existing 180-foot tower.

2. *The proposed facility will not protrude from the edge of the structure more than six (6) feet.* The proposed antennas and RRHs will protrude approximately four (4) feet from the face of the tower.

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 a single equipment cabinet to house its radio equipment.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* All of Cellco's site improvements will occur within the limits of the existing fenced compound area.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* None of the existing antennas on the SBA tower are concealed in any fashion. Likewise, Cellco's antennas will not be concealed.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* Cellco is not aware of any conditions associated with the original SBA tower approval that conflict with Cellco's proposed shared use. Cellco's proposed facility modifications are consistent with other similar small cell facilities.

B. FCC Compliance

Operation of Cellco's small cell facility antennas will not increase the radio frequency ("RF") emissions at the SBA tower site to a level at or above the FCC Safety standard. A cumulative General Power Density table, including Cellco's proposed small cell antennas is included in Attachment 5.

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

On May 20, 2015, a copy of this Sub-Petition was sent to the Colchester First Selectman Stan Soby and John and Mary Przyborowski, the owners of the Property. Because the Property is located within 2,500 feet of the Colchester-Lebanon Town boundary, a copy of this Sub-Petition is also being sent to Lebanon's First Selectman Joyce Okonuk *See Attachment 6*.

A copy of this Sub-Petition was also sent to each owner of land that abuts the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent notice and a copy of the Sub-Petition is included in Attachment 7.

V. Conclusion

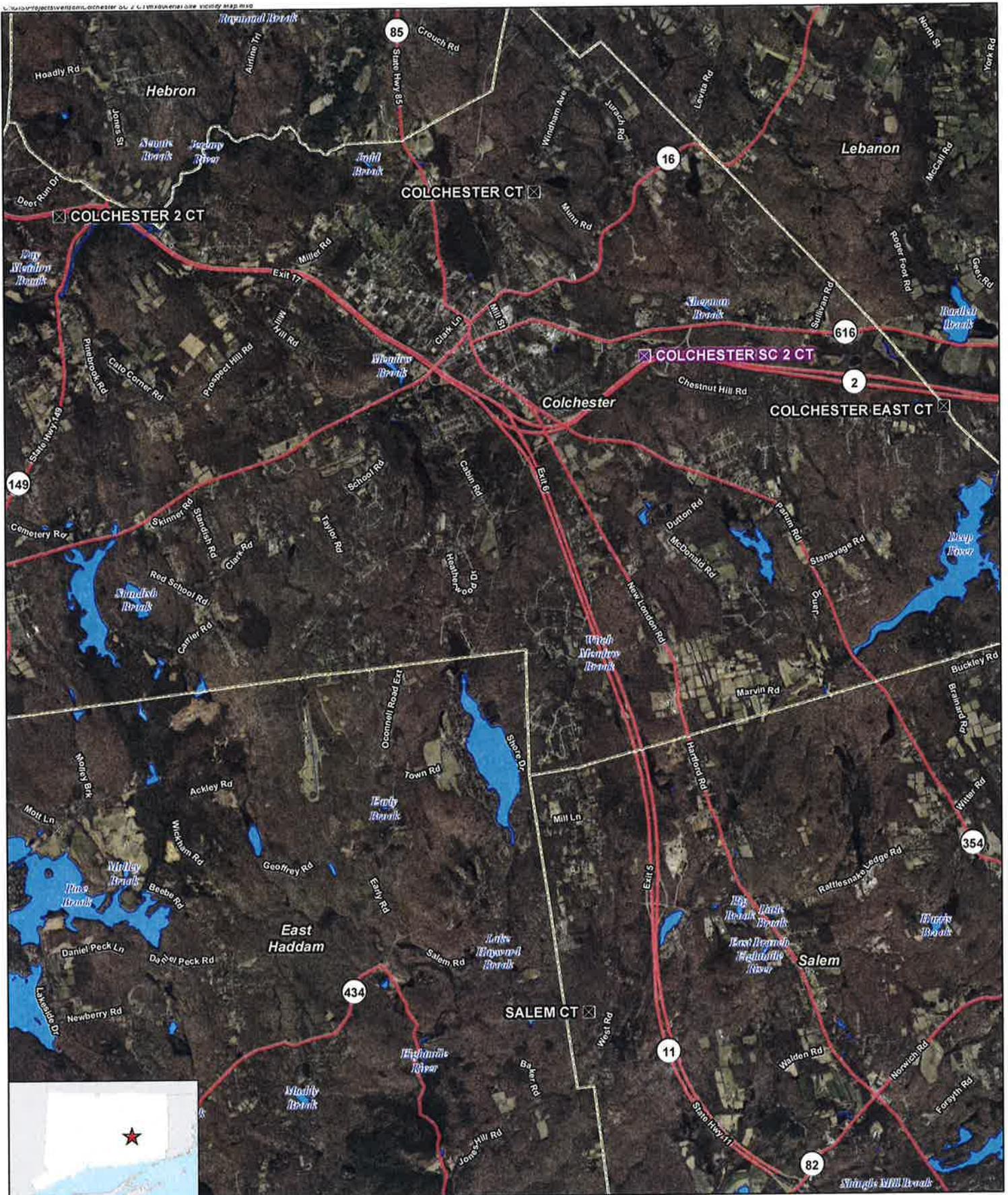
Based on the information provided above, Cellco respectfully submits that the proposed modification of the existing base station at the Property constitutes an "eligible facilities request" under Section 6409(a) and the FCC Order.

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

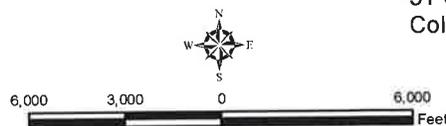
ATTACHMENT 1



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

Site Vicinity Map

Proposed Small Cell Installation
 Colchester SC 2 CT
 31 Chestnut Hill Road
 Colchester, Connecticut





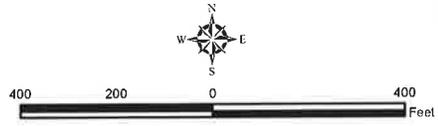
Legend

-  Host Property
-  Approximate Parcel Boundary (CTDEEP GIS)

Site Schematic

Proposed Small Cell Installation
 Colchester SC 2 CT
 31 Chestnut Hill Road
 Colchester, Connecticut

Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 400 feet
 Map Date: April 2015



ATTACHMENT 2

CELLCO PARTNERSHIP

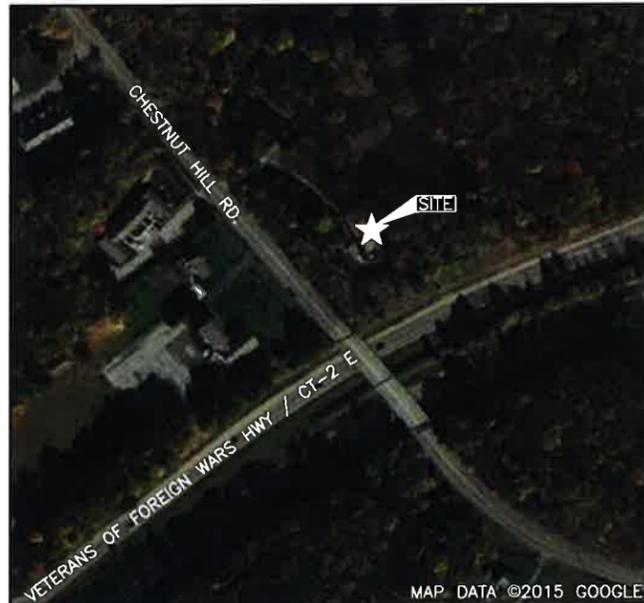


d.b.a. **verizon**wireless

WIRELESS COMMUNICATIONS FACILITY

COLCHESTER SC2 CT

31 CHESTNUT HILL RD
COLCHESTER, CT 06415



VICINITY MAP

MAP DATA ©2015 GOOGLE

SCALE: N.T.S.

DIRECTIONS TO SITE:

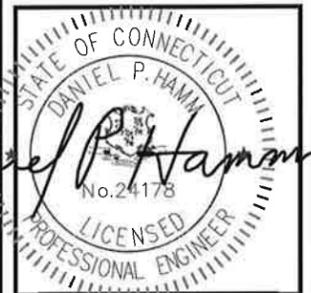
GET ON CT-2 E TOWARD NORWICH
KEEP LEFT AT THE FORK TO CONTINUE ON CT-2 E/HWY 2 E
TAKE EXIT 21 FOR CHESTNUT HILL RD
TURN RIGHT ONTO CHESTNUT HILL RD
DESTINATION IS ON THE RIGHT
31 CHESTNUT HILL RD, COLCHESTER, CT 06415

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

| PROJECT SUMMARY | |
|----------------------------------|--|
| SITE NAME: | COLCHESTER SC2 CT |
| SITE ADDRESS: | 31 CHESTNUT HILL RD COLCHESTER, CT 06415 |
| PROPERTY OWNER: | JOHN JR & MARY PRZBOROWSKI P.O. BOX C FISHERS ISLAND, NY 06390 |
| APPLICANT: | CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108 |
| SITE ACQUISITION CONTACT: | HOLLIS REDDING STRUCTURE CONSULTING GROUP (860)966-0989 |
| LEGAL/REGULATORY COUNSEL: | KENNETH C. BALDWIN ESQ. ROBINSON + COLE LLP (860)275-8345 |
| LATITUDE: | N41° 34' 17.4" |
| LONGITUDE: | W72° 18' 9.1" |

| SCOPE OF WORK INFO. | |
|---|--|
| VERIZON WIRELESS IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS TO THE EXISTING TELECOMMUNICATION SITE: | |
| <ul style="list-style-type: none"> NEW SMALL CELL ANTENNAS: (1) ANTENNA PER SECTOR WITH (2) SECTORS, FOR A TOTAL OF (2) ANTENNAS. NEW RRHs: (1) RRH PER SECTOR WITH (2) SECTORS, FOR A TOTAL OF (2) RRHs ITEMS LISTED ABOVE TO BE MOUNTED ON EXISTING MONOPOLE. | |
| <ul style="list-style-type: none"> NEW EQUIPEMENT CABINETS: (1) SMALL CELL CABINET ON EXISTING CONCRETE PAD AND (1) NEW ELECTRIC DISTRIBUTION BOX ON PROPOSED H-FRAME ITEMS LISTED ABOVE TO BE INSTALLED WITHIN PROPOSED 8'x8' LEASE AREA | |

| SHEET INDEX | |
|-------------|---------------------------|
| SHT. NO. | DESCRIPTION |
| T-1 | TITLE SHEET |
| C-1 | ABUTTERS MAP |
| A-1 | COMPOUND PLAN & ELEVATION |



Daniel P. Hamm

CHECKED BY: DJR

APPROVED BY: DPH

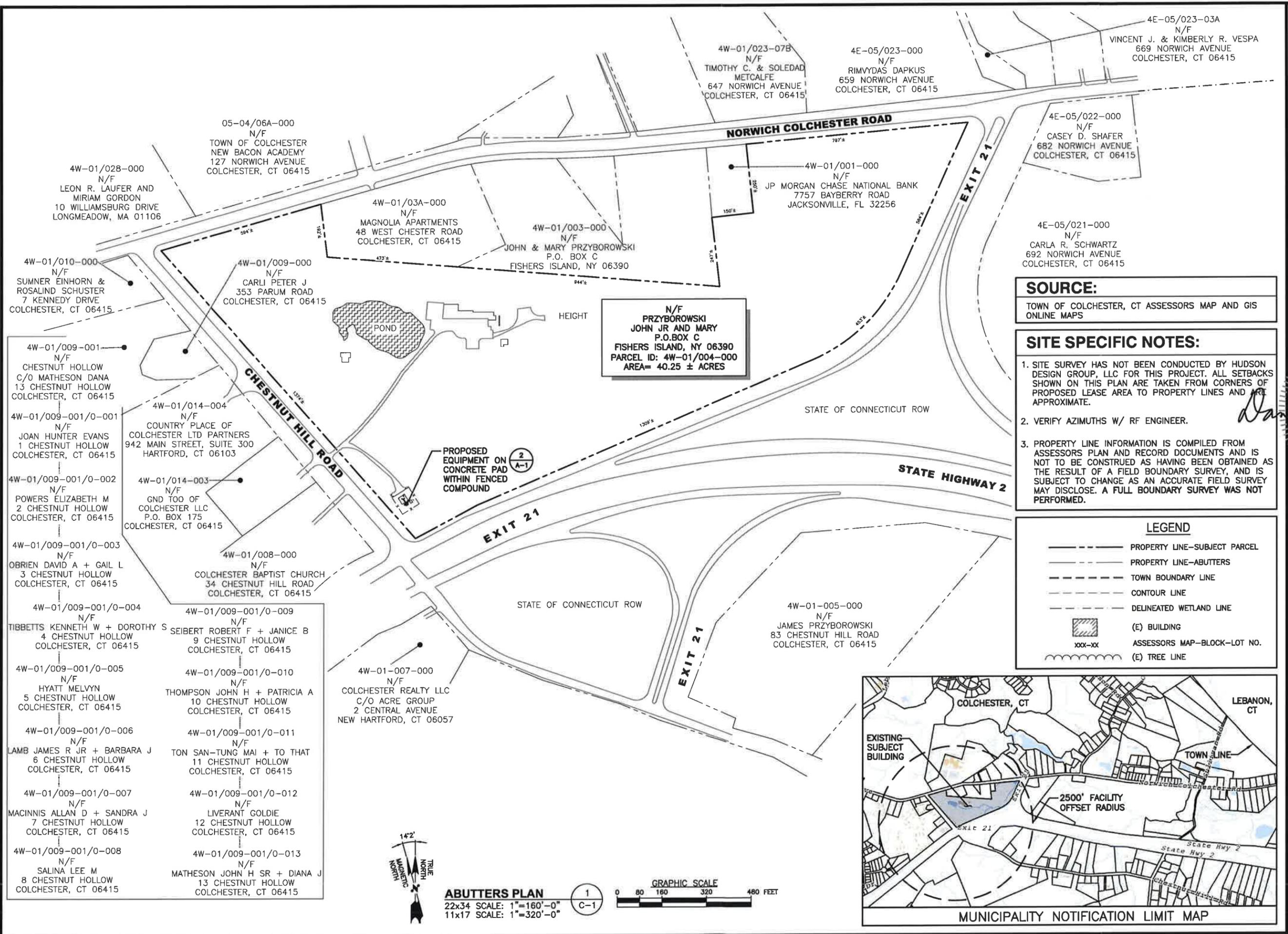
| SUBMITTALS | | | |
|------------|----------|----------------------|----|
| REV. | DATE | DESCRIPTION | BY |
| 1 | 05/07/15 | REVISED PER COMMENTS | GC |
| 0 | 04/30/15 | ISSUED FOR REVIEW | GC |

SITE NAME:
COLCHESTER SC2 CT

SITE ADDRESS:
31 CHESTNUT HILL RD
COLCHESTER, CT 06415

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



N/F
PRZYBOROWSKI
 JOHN JR AND MARY
 P.O. BOX C
 FISHERS ISLAND, NY 06390
 PARCEL ID: 4W-01/004-000
 AREA= 40.25 ± ACRES

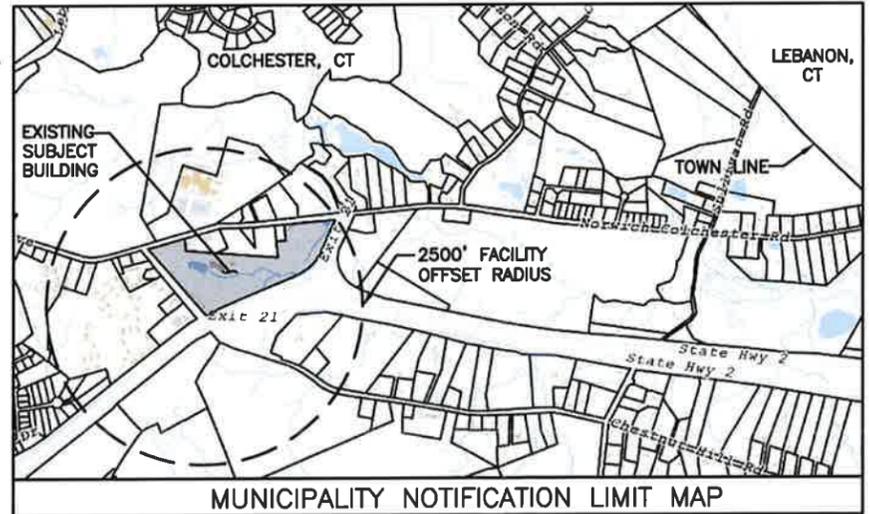
SOURCE:
 TOWN OF COLCHESTER, CT ASSESSORS MAP AND GIS
 ONLINE MAPS

SITE SPECIFIC NOTES:

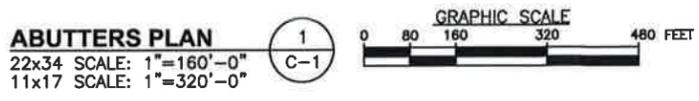
1. SITE SURVEY HAS NOT BEEN CONDUCTED BY HUDSON DESIGN GROUP, LLC FOR THIS PROJECT. ALL SETBACKS SHOWN ON THIS PLAN ARE TAKEN FROM CORNERS OF PROPOSED LEASE AREA TO PROPERTY LINES AND ARE APPROXIMATE.
2. VERIFY AZIMUTHS W/ RF ENGINEER.
3. PROPERTY LINE INFORMATION IS COMPILED FROM ASSESSORS PLAN AND RECORD DOCUMENTS AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY, AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. A FULL BOUNDARY SURVEY WAS NOT PERFORMED.

LEGEND

- PROPERTY LINE-SUBJECT PARCEL
- PROPERTY LINE-ABUTTERS
- TOWN BOUNDARY LINE
- CONTOUR LINE
- DELINEATED WETLAND LINE
- (E) BUILDING
- XXX-XX ASSESSORS MAP-BLOCK-LOT NO.
- (E) TREE LINE



- 4W-01/028-000 N/F
LEON R. LAUFER AND MIRIAM GORDON
10 WILLIAMSBURG DRIVE
LONGMEADOW, MA 01106
- 4W-01/010-000 N/F
SUMNER EINHORN & ROSALIND SCHUSTER
7 KENNEDY DRIVE
COLCHESTER, CT 06415
- 4W-01/009-001 N/F
CHESTNUT HOLLOW
C/O MATHESON DANA
13 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-001 N/F
JOAN HUNTER EVANS
1 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-002 N/F
POWERS ELIZABETH M
2 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-003 N/F
OBRIEN DAVID A + GAIL L
3 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-004 N/F
TIBBETTS KENNETH W + DOROTHY S
4 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-005 N/F
HYATT MELVYN
5 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-006 N/F
LAMB JAMES R JR + BARBARA J
6 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-007 N/F
MACINNIS ALLAN D + SANDRA J
7 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-008 N/F
SALINA LEE M
8 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 05-04/06A-000 N/F
TOWN OF COLCHESTER
NEW BACON ACADEMY
127 NORWICH AVENUE
COLCHESTER, CT 06415
- 4W-01/03A-000 N/F
MAGNOLIA APARTMENTS
48 WEST CHESTER ROAD
COLCHESTER, CT 06415
- 4W-01/003-000 N/F
JOHN & MARY PRZYBOROWSKI
P.O. BOX C
FISHERS ISLAND, NY 06390
- 4W-01/009-000 N/F
CARLI PETER J
353 PARUM ROAD
COLCHESTER, CT 06415
- 4W-01/014-004 N/F
COUNTRY PLACE OF COLCHESTER LTD PARTNERS
942 MAIN STREET, SUITE 300
HARTFORD, CT 06103
- 4W-01/014-003 N/F
GND TOO OF COLCHESTER LLC
P.O. BOX 175
COLCHESTER, CT 06415
- 4W-01/008-000 N/F
COLCHESTER BAPTIST CHURCH
34 CHESTNUT HILL ROAD
COLCHESTER, CT 06415
- 4W-01/009-001/0-009 N/F
SEIBERT ROBERT F + JANICE B
9 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-010 N/F
THOMPSON JOHN H + PATRICIA A
10 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-011 N/F
TON SAN-TUNG MAI + TO THAT
11 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-012 N/F
LIVERANT GOLDIE
12 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/009-001/0-013 N/F
MATHESON JOHN H SR + DIANA J
13 CHESTNUT HOLLOW
COLCHESTER, CT 06415
- 4W-01/007-000 N/F
COLCHESTER REALTY LLC
C/O ACRE GROUP
2 CENTRAL AVENUE
NEW HARTFORD, CT 06057



1600 OSGOOD STREET
 BUILDING 20 NORTH, SUITE 3090
 N. ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 336-5586



CHECKED BY: DJR

APPROVED BY: DPH

SUBMITTALS

| REV. | DATE | DESCRIPTION | BY |
|------|----------|----------------------|----|
| 1 | 06/07/15 | REVISED PER COMMENTS | GC |
| 0 | 04/30/15 | ISSUED FOR REVIEW | GC |

SITE NAME:
COLCHESTER SC2 CT

SITE ADDRESS:
 31 CHESTNUT HILL RD
 COLCHESTER, CT 06415

SHEET TITLE
ABUTTERS MAP

SHEET NUMBER
C-1

SUBMITTALS

| REV. | DATE | DESCRIPTION | BY |
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SITE NAME:
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SHEET TITLE
COMPOUND PLAN & ELEVATION

SHEET NUMBER
A-1

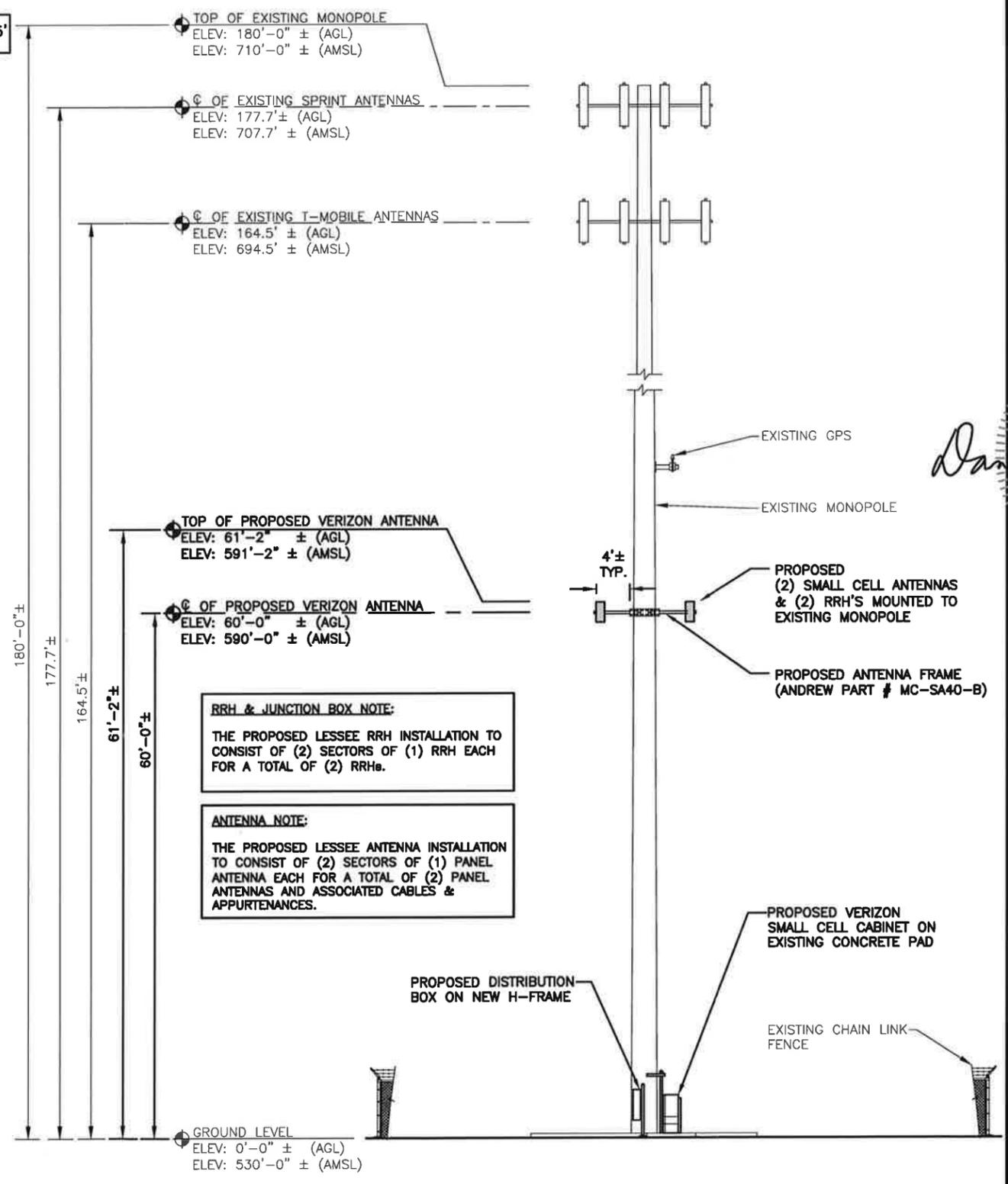
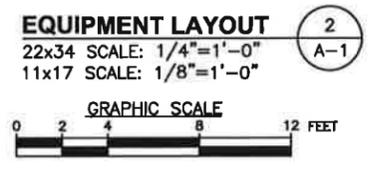
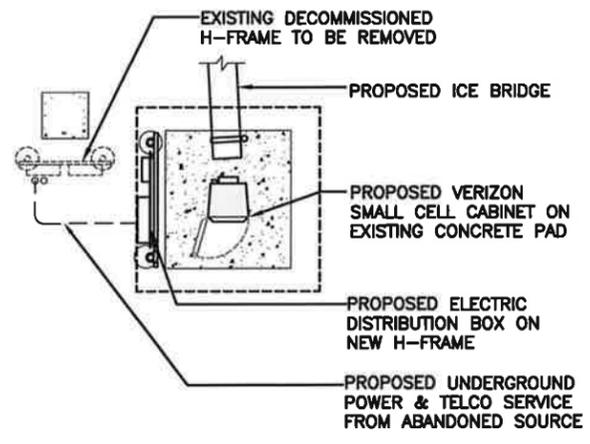
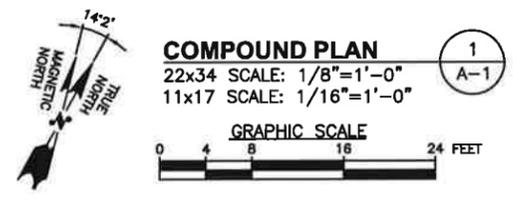
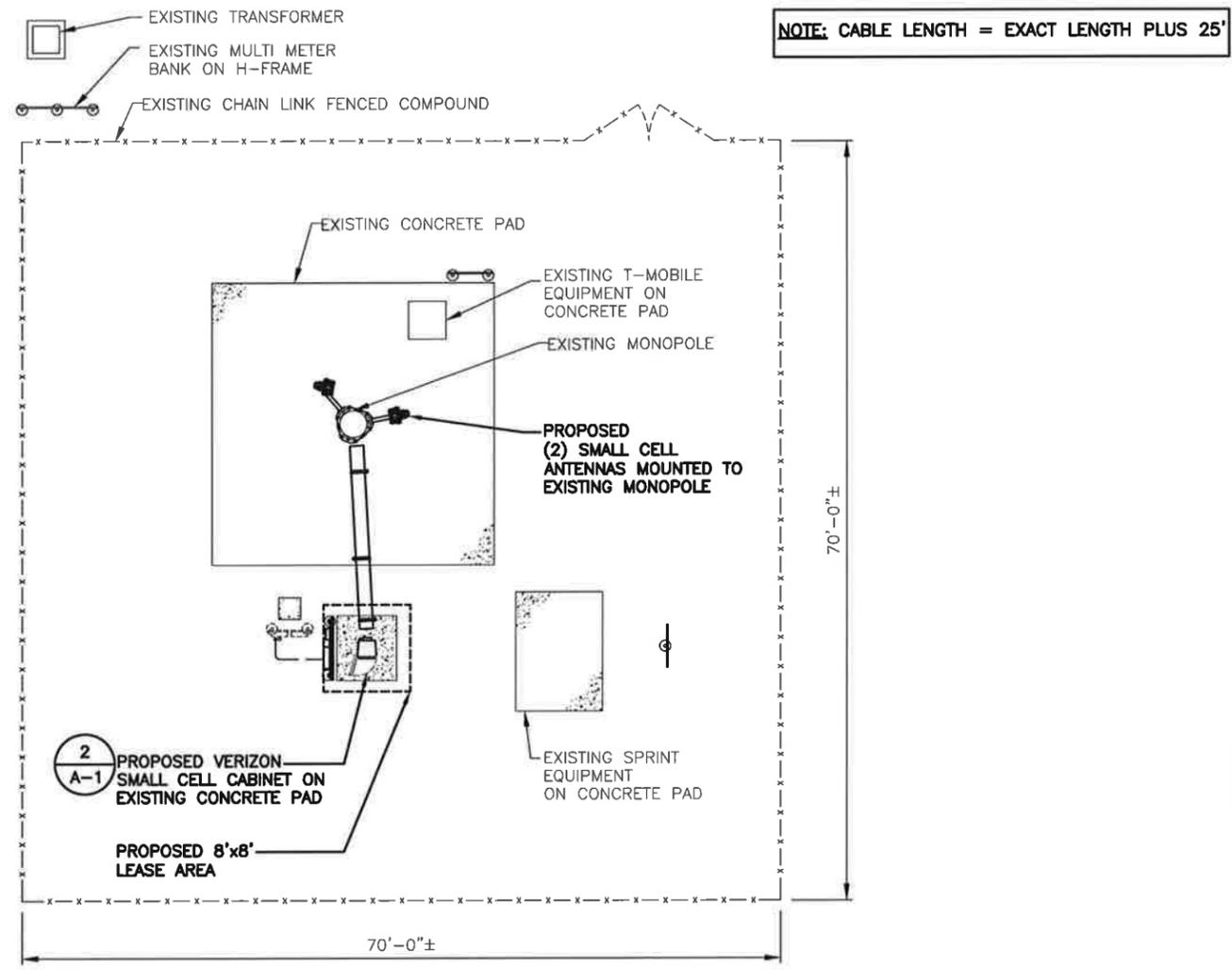
PROPOSED ANTENNA INFORMATION

| SECTOR | STATUS | AZIMUTH | CABLE LENGTH |
|--------|----------|---------|--------------|
| ALPHA | PROPOSED | 50° | 103' |
| BETA | PROPOSED | 250° | 103' |
| GAMMA | N/A | N/A | N/A |

APPROXIMATE TOWER COORDINATES: LAT: N41° 34' 17.4"
 LONG: W72° 18' 9.1"

NOTE:
 REFER TO STRUCTURAL ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING PREPARED BY FDH ENGINEERING, INC. DATED 03/11/15 PRIOR TO CONSTRUCTION.

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'



ATTACHMENT 3



HBX-6513DS-VTM

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

- Rugged, reliable design with excellent passive intermodulation suppression

Electrical Specifications

| Frequency Band, MHz | 1710–1880 | 1850–1990 | 1920–2180 |
|--------------------------------------|------------|------------|------------|
| Gain, dBi | 15.0 | 15.0 | 15.5 |
| Beamwidth, Horizontal, degrees | 68 | 66 | 64 |
| Beamwidth, Vertical, degrees | 15.0 | 14.1 | 13.5 |
| Beam Tilt, degrees | 0–18 | 0–18 | 0–18 |
| USLS, dB | 16 | 16 | 16 |
| Front-to-Back Ratio at 180°, dB | 28 | 30 | 28 |
| CPR at Boresight, dB | 20 | 19 | 19 |
| CPR at Sector, dB | 7 | 8 | 8 |
| 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 | 14.3 | 14.4 | 14.6 |
| Gain by all Beam Tilts Tolerance, dB | ±0.7 | ±0.7 | ±0.8 |
| | 0° 14.7 | 0° 14.8 | 0° 15.2 |
| Gain by Beam Tilt, average, dBi | 9° 14.4 | 9° 14.6 | 9° 14.6 |
| | 18° 13.5 | 18° 13.5 | 18° 13.7 |
| Beamwidth, Horizontal Tolerance, degrees | ±2.1 | ±1.4 | ±3.1 |
| Beamwidth, Vertical Tolerance, degrees | ±1.2 | ±0.7 | ±1 |
| USLS, dB | 17 | 17 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 | 24 | 23 |
| CPR at Boresight, dB | 20 | 18 | 18 |
| CPR at Sector, dB | 6 | 8 | 10 |

* 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 | Metro Cell |
| Band | Single band |
| Brand | DualPol® Teletilt® |
| Operating Frequency Band | 1710 – 2180 MHz |

Product Specifications

COMMSCOPE®

HBX-6513DS-VTM

POWERED BY



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 | 2 |
| Wind Loading, maximum | 119.0 N @ 150 km/h 26.8 lbf @ 150 km/h |
| Wind Speed, maximum | 241.5 km/h 150.1 mph |

Dimensions

| | |
|------------|--------------------|
| Depth | 83.0 mm 3.3 in |
| Length | 695.0 mm 27.4 in |
| Width | 166.0 mm 6.5 in |
| Net Weight | 2.8 kg 6.2 lb |

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBX-6513DS-A1M

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

DB390 — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

DB5098 — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-AWS FOR BAND 4 APPLICATIONS

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.

SUPERIOR PERFORMANCE

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.

OPTIMIZED TCO

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.

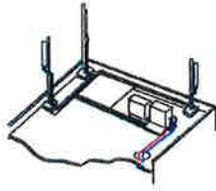
EASY INSTALLATION

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.

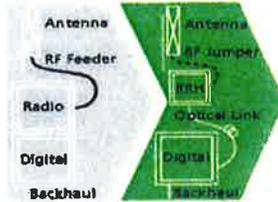
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation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

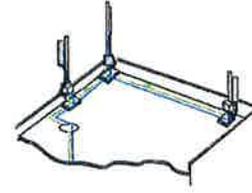
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- 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

BENEFITS

- 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.

TECHNICAL SPECIFICATIONS

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

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ATTACHMENT 4



FDH Engineering, Inc., 6521 Meridien Drive Raleigh, NC 27616, Ph. 919.755.1012

**Structural Analysis for
SBA Network Services, Inc.**

180' Monopole Tower

**SBA Site Name: Colchester 2 CT
SBA Site ID: CT02220-S-04
Verizon Site ID: 316112**

FDH Project Number 15BEZN1400 (R1)

Analysis Results

| | | |
|------------------|-------|------------|
| Tower Components | 83.7% | Sufficient |
| Foundation | 86.5% | Sufficient |

Prepared By:

Christopher Lee, EIT
Project Engineer

Reviewed By:

Dennis D. Abel, PE
Director of Structural Engineering
CT PE License No. 23247

FDH Engineering, Inc.
6521 Meridien Drive
Raleigh, NC 27616
(919) 755-1012
info@fdh-inc.com



03-11-2015

March 11, 2015

Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures and 2005 Connecticut State Building Code

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in Colchester, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F* and *2005 Connecticut State Building Code (2005 CSBC)*. Information pertaining to the existing/proposed antenna loading, current tower geometry, foundation dimensions, geotechnical data, and member sizes was obtained from:

- Valmont (Order No.19487-99) Communication Pole Record Drawings dated November 3, 1999
- Valmont (Order No.19539-99) foundation design drawings dated November 29, 1999
- FDH Engineering, Inc. (Project No. 1207126EG1) Geotechnical Evaluation of Subsurface Conditions dated August 10, 2012
- ETS (Project No. 13023) TIA Inspection Report dated December 8, 2014
- SBA Network Services, Inc.

The basic design wind speed per the *TIA/EIA-222-F* standards and *2005 CSBC* is 100 mph without ice and 38 mph with 3/4" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Verizon in place at 60 ft, the tower meets the requirements of the *TIA/EIA-222-F* standards and *2005 CSBC* provided the **Recommendations** listed below are satisfied. Furthermore, provided the foundation was designed and constructed to support the original design reactions (see Valmont Order No. 19539-99), the foundation should have the necessary capacity to support the existing and proposed loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e., the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and *2005 CSBC* are met with the existing and proposed loading in place, we have the following recommendations:

1. The proposed feed lines should be installed inside the pole's shaft.
2. RRU/RRH Stipulation: The equipment may be installed in any arrangement determined by the client.

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. *If the actual layout determined in the field deviates from the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.*

Table 1 - Appurtenance Loading

Existing Loading:

| Antenna Elevation (ft) | Description | Feed Lines ¹ | Carrier | Mount Elevation (ft) | Mount Type |
|------------------------|--|-------------------------|----------|----------------------|------------------------------|
| 177.7 | (6) Decibel DB908H90E-M | (6) 1-5/8" | Sprint | 177.7 | (1) 14' Low Profile Platform |
| 164.5 | (1) EMS RR901782DP (2) EMS RR651802DP (6) Allen Telecom FE15501P7775 | (6) 1-5/8" | T-Mobile | 164.5 | (1) 10' Low Profile Platform |
| 76.5 | (1) GPS | (1) 1/2" | Sprint | 76.5 | (1) 3.5' Stand Off Arm |

¹Feed lines installed inside the pole's shaft unless otherwise noted.

Proposed Carrier Final Loading:

| Antenna Elevation (ft) | Description | Feed Lines | Carrier | Mount Elevation (ft) | Mount Type |
|------------------------|---|------------|---------|----------------------|--|
| 60 | (2) Commscope HBX-6513DS-A1M (2) Alcatel Lucent RRH 2x60 AWS | (1) 1-5/8" | Verizon | 60 | (2) Stand Off Arms (Commscope P/N: MC-SA40-B) |

RESULTS

The following yield strength of steel for individual members was used for analysis:

Table 2 - Material Strength

| Member Type | Yield Strength |
|----------------------|----------------|
| Tower Shaft Sections | 65 ksi |
| Base Plate | 60 ksi |
| Anchor Bolts | 75 ksi |

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information

Table 3 - Summary of Working Percentage of Structural Components

| Section No. | Elevation ft | Component Type | Size | % Capacity* | Pass Fail |
|-------------|-----------------|----------------|--------------------------|-------------|-----------|
| L1 | 180 - 127 | Pole | TP35.77x24.91x0.25 | 48.3 | Pass |
| L2 | 127 - 92.8333 | Pole | TP42.34x34.1942x0.3125 | 64.0 | Pass |
| L3 | 92.8333-45.8333 | Pole | TP51.35x40.4751x0.375 | 76.7 | Pass |
| L4 | 45.8333-0 | Pole | TP60x49.1466x0.4375 | 83.7 | Pass |
| | | Anchor Bolts | (20) 2.25"Ø w/ BC=68.62" | 77.3 | Pass |
| | | Base Plate | PL 74.62"Ø x 2.75" Thick | 57.2 | Pass |

*Capacities include a 1/3 allowable stress increase for wind per TIA/EIA-222-F standards.

Table 4 - Maximum Base Reactions

| Base Reactions | Current Analysis (TIA/EIA-222-F)* | Original Design (TIA/EIA-222-F) |
|----------------|-----------------------------------|---------------------------------|
| Axial | 38 k | 56 k |
| Shear* | 43 k | 40 k |
| Moment | 4,365 k-ft | 5,045 k-ft |

*Per our experience with foundations of similar type, the shear loading should not control the foundation analysis.

GENERAL COMMENTS

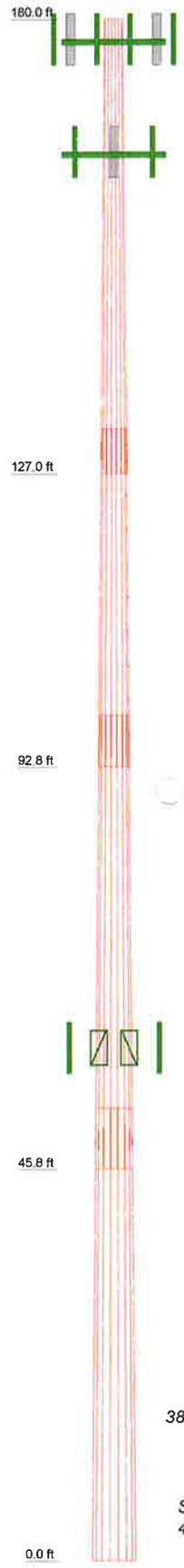
This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

APPENDIX

| | | | | |
|--------------------|---------|---------|---------|---------|
| Section | 1 | 2 | 3 | 4 |
| Length (ft) | 53.00 | 39.42 | 53.00 | 52.92 |
| Number of Sides | 16 | 16 | 16 | 16 |
| Thickness (in) | 0.2500 | 0.3125 | 0.3750 | 0.4375 |
| Socket Length (ft) | 5.25 | 6.00 | 7.08 | |
| Top Dia (in) | 24.9100 | 34.1942 | 40.4751 | 49.1466 |
| Bot Dia (in) | 35.7700 | 42.3400 | 51.3500 | 60.0000 |
| Grade | | | A572-65 | |
| Weight (K) | 4.3 | 5.1 | 9.9 | 13.6 |



DESIGNED APPURTENANCE LOADING

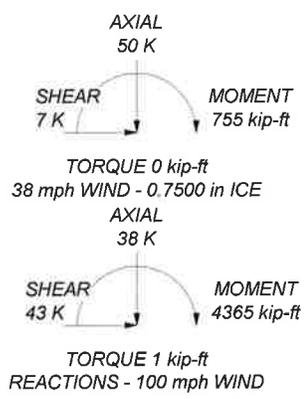
| TYPE | ELEVATION | TYPE | ELEVATION |
|------------------------------|-----------|------------------------------|-----------|
| Low Profile Platform | 177.67 | (3) Empty Mount Pipe | 164.5 |
| Empty Mount Pipe | 177.67 | (3) Empty Mount Pipe | 164.5 |
| Empty Mount Pipe | 177.67 | (3) Empty Mount Pipe | 164.5 |
| Empty Mount Pipe | 177.67 | RR901782DP w/ Mount Pipe | 164.5 |
| (2) DB908H90E-M w/Mount Pipe | 177.67 | GPS | 76.5 |
| (2) DB908H90E-M w/Mount Pipe | 177.67 | (1) Stand Off Arm | 76.5 |
| (2) DB908H90E-M w/Mount Pipe | 177.67 | RRH2x60-AWS | 60 |
| RR651802DP w/ Mount Pipe | 164.5 | (1) Stand Off Arm | 60 |
| RR651802DP w/ Mount Pipe | 164.5 | (1) Stand Off Arm | 60 |
| (2) FE15501P77775 | 164.5 | HBX-6513DS-A1M w/ Mount Pipe | 60 |
| (2) FE15501P77775 | 164.5 | HBX-6513DS-A1M w/ Mount Pipe | 60 |
| (2) FE15501P77775 | 164.5 | RRH2x60-AWS | 60 |
| Low Profile Platform | 164.5 | | |

MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|-------|----|----|
| A572-65 | 65 ksi | 80 ksi | | | |

TOWER DESIGN NOTES

1. Tower is located in New London County, Connecticut.
2. Tower designed for a 100 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 38 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 83.7%



| | | | |
|---|--|----------------|----------|
|  FDH Engineering, Inc. 6521 Meridian Drive, Suite 107 Raleigh, North Carolina 27616 Phone: 9197551012 FAX: 9197551031 | Job: Colchester 2, CT02220-S-04 | | |
| | Project: 15BEZN1400 (R1) | | |
| | Client: SBA | Drawn by: CLee | App'd: |
| | Code: TIA/EIA-222-F | Date: 03/11/15 | Scale: N |
| Path: | Dwg No.: | | |

ATTACHMENT 5

| | | General | | Power | | Density | | | | | | | |
|----------------------------|------------|-----------|--------|------------------|-------|---------------|--------------|--------|--|--|--|--|--|
| Site Name: Colchester SC 2 | | | | | | | | | | | | | |
| Tower Height: 180Ft. | | | | | | | | | | | | | |
| CARRIER | # OF CHAN. | WATTS ERP | HEIGHT | CALC. POWER DENS | FREQ. | PERMISS. EXP. | FRACTION MPE | Total | | | | | |
| *VoiceStream | 1 | 865 | 164.5 | 0.0115 | 700 | 0.4667 | 2.46% | | | | | | |
| *VoiceStream | 6 | 1102 | 164.5 | 0.0879 | 1900 | 1.0000 | 8.79% | | | | | | |
| *Sprint CDMA/LTE | 2 | 625 | 177.5 | 0.0143 | 1900 | 1.0000 | 1.43% | | | | | | |
| Verizon PCS | 0 | 470 | 60 | 0.0000 | 1970 | 1.0000 | 0.00% | | | | | | |
| Verizon Cellular | 0 | 422 | 60 | 0.0000 | 869 | 0.5793 | 0.00% | | | | | | |
| Verizon AWS | 1 | 1189 | 60 | 0.1188 | 2145 | 1.0000 | 11.88% | | | | | | |
| Verizon 700 | 0 | 1050 | 60 | 0.0000 | 746 | 0.4973 | 0.00% | 24.55% | | | | | |
| * Source: Siting Council | | | | | | | | | | | | | |

ATTACHMENT 6

May 20, 2015

Via Certified Mail, Return Receipt Requested

Stan Soby
First Selectman
Town of Colchester
127 Norwich Avenue
Colchester, CT 06415

Re: Proposed Installation of a Small Cell Telecommunications Facility at 31 Chestnut Hill Road, Colchester, Connecticut

Dear Mr. Soby:

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 install a new small cell wireless telecommunications facility at 31 Chestnut Hill Road in Colchester (the “Property”). The facility will consist of two (2) antennas and four (4) remote radio heads attached at the 60-foot level of the existing 180-foot tower at the Property. Equipment associated with Cellco’s antennas will be housed in a small cabinet located on a concrete pad within the existing tower compound.

As presented in the Sub-Petition, the proposed “small cell” 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.

13779249-v1

Robinson + Cole

Stan Soby
May 20, 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". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment
Copy to:
Tim Parks

May 20, 2015

Via Certified Mail, Return Receipt Requested

Joyce R. Okonuk, First Selectman
Town of Lebanon
Town Hall
579 Exeter Road
Lebanon, CT 06249

Re: **Proposed Installation of a Small Cell Telecommunications Facility at 31 Chestnut Hill Road, Colchester, Connecticut**

Dear Ms. Okonuk:

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 install a new small cell wireless telecommunications facility at 31 Chestnut Hill Road in Colchester (the “Property”). The facility will consist of two (2) antennas and four (4) remote radio heads attached at the 60-foot level of the existing 180-foot tower at the Property. Equipment associated with Cellco’s antennas will be housed in a small cabinet located on a concrete pad within the existing tower compound.

You are receiving this letter because the tower is located within 2,500 feet of the Colchester-Lebanon town boundary.

As presented in the Sub-Petition, the proposed “small cell” 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

Joyce R. Okonuk
May 20, 2015
Page 2

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

Sincerely,

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

Kenneth C. Baldwin

Attachment
Copy to:
Tim Parks

May 20, 2015

Via Certified Mail, Return Receipt Requested

John and Mary Przyborowski
P.O. Box C
Fishers Island, NY 06390

Re: Proposed Installation of a Small Cell Telecommunications Facility at 31 Chestnut Hill Road, Colchester, Connecticut

Dear Mr. and Mrs. Przyborowski:

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 install a new small cell wireless telecommunications facility at 31 Chestnut Hill Road in Colchester (the “Property”). The facility will consist of two (2) antennas and four (4) remote radio heads attached at the 60-foot level of the existing 180-foot tower at the Property. Equipment associated with Cellco’s antennas will be housed in a small cabinet located on a concrete pad within the existing tower compound.

As presented in the Sub-Petition, the proposed “small cell” 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

John and Mary Przyborowski
May 20, 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", written in a cursive style.

Kenneth C. Baldwin

Attachment
Copy to:
Tim Parks

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

May 20, 2015

Via Certified Mail, Return Receipt Requested

«Name_and_Address»

Re: Sub-Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Telecommunications Facility at 31 Chestnut Hill Road, Colchester, 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 install a new small cell wireless telecommunications facility at 31 Chestnut Hill Road in Colchester (the “Property”). The facility will consist of two (2) antennas and four (4) remote radio heads attached at the 60-foot level on the existing 180-foot tower at the Property. Equipment associated with Cellco’s antennas will be housed in a small cabinet on a concrete pad with the existing tower compound.

The facility improvements constitute a 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.

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.

May 20, 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
Copy to:
Tim Parks

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

**31 CHESTNUT HILL ROAD
COLCHESTER, CONNECTICUT**

| | <u>Map/Block/Lot</u> | <u>Property Address</u> | <u>Owner and Mailing Address</u> |
|----|----------------------|-------------------------|---|
| 1. | 4W-01/028-000 | 567 Norwich Avenue | Leon R. Laufer and Miriam Gordan 10 Williamsburg Drive Longmeadow, MA 01106 |
| 2. | 05-04/06A-000 | 611 Norwich Avenue | Town of Colchester New Bacon Academy 127 Norwich Avenue Colchester, CT 06415 |
| 3. | 4W-01/03A-000 | 608 Norwich Avenue | Magnolia Apartments 48 West Chester Road Colchester, CT 06415 |
| 4. | 4W-01/003-000 | Norwich Avenue | John and Mary Przyborowski P.O. Box C Fishers Island, NY 06390 |
| 5. | 4W-01/001-000 | 648 Norwich Avenue | JP Morgan Chase National Bank 7757 Bayberry Road Jacksonville, FL 32256 |
| 6. | 4E-05/023-000 | 659 Norwich Avenue | Rimvydas Dapkus 659 Norwich Avenue Colchester, CT 06415 |
| 7. | 4E-05/023-03A | 669 Norwich Avenue | Vincent J. and Kimberly R. Vespa 669 Norwich Avenue Colchester, CT 06415 |
| 8. | 4E-05/022-000 | 682 Norwich Avenue | Casey D. Shafer 682 Norwich Avenue Colchester, CT 06415 |
| 9. | 4E-05/021-000 | 692 Norwich Avenue | Carla R. Schwartz 692 Norwich Avenue Colchester, CT 06415 |

| | <u>Map/Block/Lot</u> | <u>Property Address</u> | <u>Owner and Mailing Address</u> |
|-----|----------------------|-------------------------|--|
| 10. | 4W-01/005-000 | 83 Chestnut Hill Road | James Przyborowski 83 Chestnut Hill Road Colchester, CT 06415 |
| 11. | 4W-01/006-000 | 58 Chestnut Hill Road | Walter and Rose A. Clark 58 Chestnut Hill Road Colchester, CT 06415 |
| 12. | 4W-01/007-000 | Chestnut Hill Road | Colchester Realty LLC c/o Acre Group 2 Central Avenue New Hartford, CT 06057 |
| 13. | 4W-01/007-000 TWR | Chestnut Hill Road | AT&T Mobility Attn: Property Tax Department 909 Chestnut Street St. Louis, MO 63101 |
| 14. | 4W-01/008-000 | 34 Chestnut Hill Road | Colchester Bible Baptist Church 34 Chestnut Hill Road Colchester, CT 06415 |
| 15. | 4W-01/014-003 | 28 Chestnut Hill Road | GND TOO of Colchester LLC P.O. Box 175 Colchester, CT 06415 |
| 16. | 4W-01/014-004 | 1 Birch Circle | Country Place of Colchester LTD Partners 942 Main Street, Suite 300 Hartford, CT 06103 |
| 17. | 4W-01/009-000 | 14 Chestnut Hill Road | Peter J. Carli 353 Parum Road Colchester, CT 06415 |
| 18. | 4W-01/010-000 | 584 Norwich Avenue | Sumner Einhorn and Rosalind Schuster 7 Kennedy Drive Colchester, CT 06415 |
| 19. | 4W-01/023-07B | 647 Norwich Avenue | Timothy C. and Soledad Metcalfe 647 Norwich Avenue Colchester, CT 06415 |

| | <u>Map/Block/Lot</u> | <u>Property Address</u> | <u>Owner and Mailing Address</u> |
|-----|----------------------|-------------------------|--|
| 20. | 4W-01/009-001 | 10 Chestnut Hill Road | Chestnut Hollow c/o Matheson Dana 13 Chestnut Hollow Colchester, CT 06415 |
| 21. | 4W-01/009-001/0-00 | 1 Chestnut Hollow | Joan Evans Hunter 1 Chestnut Hollow Colchester, CT 06415 |
| 22. | 4W-01/009-001/0-002 | 2 Chestnut Hollow | Elizabeth Powers 2 Chestnut Hollow Colchester, CT 06415 |
| 23. | 4W-01/009-001/0-003 | 3 Chestnut Hollow | David A. and Gail L. Obrien 3 Chestnut Hollow Colchester, CT 06415 |
| 24. | 4W-01/009-001/0-004 | 4 Chestnut Hollow | Kenneth W. and Dorothy S. Tibbetts 4 Chestnut Hollow Colchester, CT 06415 |
| 25. | 4W-01/009-001/0-005 | 5 Chestnut Hollow | Melvyn Hyatt 5 Chestnut Hollow Colchester, CT 06415 |
| 26. | 4W-01/009-001/0-006 | 6 Chestnut Hollow | James R. and Barbara J. Lamb, Jr. 6 Chestnut Hollow Colchester, CT 06415 |
| 27. | 4W-01/009-001/0-007 | 7 Chestnut Hollow | Allan D. and Sandra J. Macinnis 7 Chestnut Hollow Colchester, CT 06415 |
| 28. | 4W-01/009-001/0-008 | 8 Chestnut Hollow | Lee M. Salina 8 Chestnut Hollow Colchester, CT 06415 |
| 29. | 4W-01/009-001/0-009 | 9 Chestnut Hollow | Robert F. and Janice B. Seibert 9 Chestnut Hollow Colchester, CT 06415 |
| 30. | 4W-01/009-001/0-010 | 10 Chestnut Hollow | John H. and Patricia A. Thompson 10 Chestnut Hollow Colchester, CT 06415 |

| | <u>Map/Block/Lot</u> | <u>Property Address</u> | <u>Owner and Mailing Address</u> |
|-----|----------------------|-------------------------|---|
| 31. | 4W-01/009-001/0-011 | 11 Chestnut Hollow | San-Tung Mai and To That Ton 11 Chestnut Hollow Colchester, CT 06415 |
| 32. | 4W-01/009-001/0-012 | 12 Chestnut Hollow | Goldie Liverant 12 Chestnut Hollow Colchester, CT 06415 |
| 33. | 4W-01/009-001/0-013 | 13 Chestnut Hollow | John H. and Diana J. Matheson, Sr. 13 Chestnut Hollow Colchester, CT 06415 |
| 34. | | State Right of Way | State of Connecticut Department of Transportation 2800 Berlin Turnpike Newington, CT 06111 |