

II. Factual Background

The Property is a 0.21-acre parcel in Old Saybrook's B-2 zone and is surrounded by other commercial uses along Main Street and Boston Post Road in Old Saybrook. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph).

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges throughout the State of Connecticut. Initially, the proposed Old Saybrook Center SC Facility described above will provide wireless service in Cellco's 700 MHz and 2100 MHz frequency ranges only. Coverage plots showing Cellco's service in Old Saybrook, Old Lyme and Westbrook and the coverage footprint for the proposed Old Saybrook Center SC Facility are included in Attachment 2.

As shown on the coverage plots, Cellco currently maintains two (2) cell sites within approximately 1.5 miles of the proposed Old Saybrook Center SC Facility. Cellco's Old Saybrook cell site consists of antennas on an existing tower at 170 Ingham Hill Road in Old Saybrook. Cellco's Old Saybrook East Relo cell site consists of antennas on an existing tower at 77 Springbrook Road in Old Saybrook. As depicted on coverage maps included in Attachment 2, Cellco currently maintains some gaps in reliable wireless service to the north and east of the Property in its 2100 MHz frequencies. Cellco intends to provide service to these gaps from the proposed Old Saybrook Center SC Facility. The more significant benefit of the Old Saybrook Center SC Facility is the capacity relief it will provide to Cellco's existing Old Saybrook (Beta sector) and Old Saybrook East Relo (Gamma sector) cell sites, both of which are currently operating beyond their respective capacity limits (a/k/a exhausting). Significant commercial development in the area and the traffic along Route 1 and Route 154, have been identified as data traffic concentration areas that contribute to these existing capacity problems. In an effort to

resolve these service problems and provide customers with enhanced wireless services in the area, Cellco proposes to install a tower-mounted small cell facility on the roof of the building at the Property.

III. Proposed Old Saybrook Center SC Facility

The proposed Old Saybrook Center SC Facility would consist of six (6) antennas on three (3) tower/masts attached to the roof of the existing building. Cellco will also install six (6) Remote Radio Heads (“RRHs”), one behind each antenna. The antennas and RRHs will be concealed inside an RF transparent enclosure designed to appear as a mechanical penthouse extending approximately 10 feet above the existing roof peak; approximately twelve (12) feet above the parapet. Equipment associated with the small cell antennas will be located inside a first floor equipment room in the southwest corner of the building. Power and telephone service to the Old Saybrook Center SC Facility will extend from existing service inside the building. (See Cellco’s Project Plans included in Attachment 3). Specifications for the small cell antennas (Commscope Model SBNHH-1D65A) and RRHs (Model 2x40-700U and 2x60-AWS) are included in Attachment 4.

IV. Discussion

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

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

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

1. Physical Environmental Effects

Cellco respectfully submits that the installation of six (6) antennas and six (6) RRHs on tower/masts on the roof of the building and the installation of two (2) equipment cabinets inside the existing building, will not involve a significant alteration in the physical and environmental characteristics of the Property or the surrounding area. No new ground disturbance of any kind is necessary or proposed as a part of the Old Saybrook Center SC Facility installation.

2. Visual Effects

The installation of the three (3) tower/masts, antennas and RRHs on the roof of the building behind a concealment structure would have minimal visual effects on the Property and the surrounding area. No antennas, RRHs or the supporting mast structure will be visible from exterior locations. The architectural design and color of the concealment structure will match the existing building. (See Limited Visual Assessment and Photo-Simulations (“Visual Report”) included in Attachment 5).

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 6 are Far Field Approximations (RF Emissions calculations) for Cellco’s 700 MHz and 2100 MHz frequencies at the proposed location. The approximations demonstrate that the Old Saybrook Center SC Facility will operate within the FCC safety standard.

4. FAA Summary Report

Included in Attachment 7 is a Federal Airways & Airspace Summary Report verifying that the tower, antennas and RRHs and penthouse concealment structure on the roof of the

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

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

On April 28, 2015, a copy of this Petition was sent to Carl B. Fortuna, Jr., First Selectman of Old Saybrook and Prospect Realty Partners LLC, the Owner. Included in Attachment 8 are copies of the letters sent to First Selectman Fortuna and the Property Owner.

A copy of this Petition was also sent to the owners of land that abuts the Property. A sample abutter's letter and the list of those abutting landowners who were sent a copy of the Petition is included in Attachment 9.

V. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of the Old Saybrook Center SC Facility will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

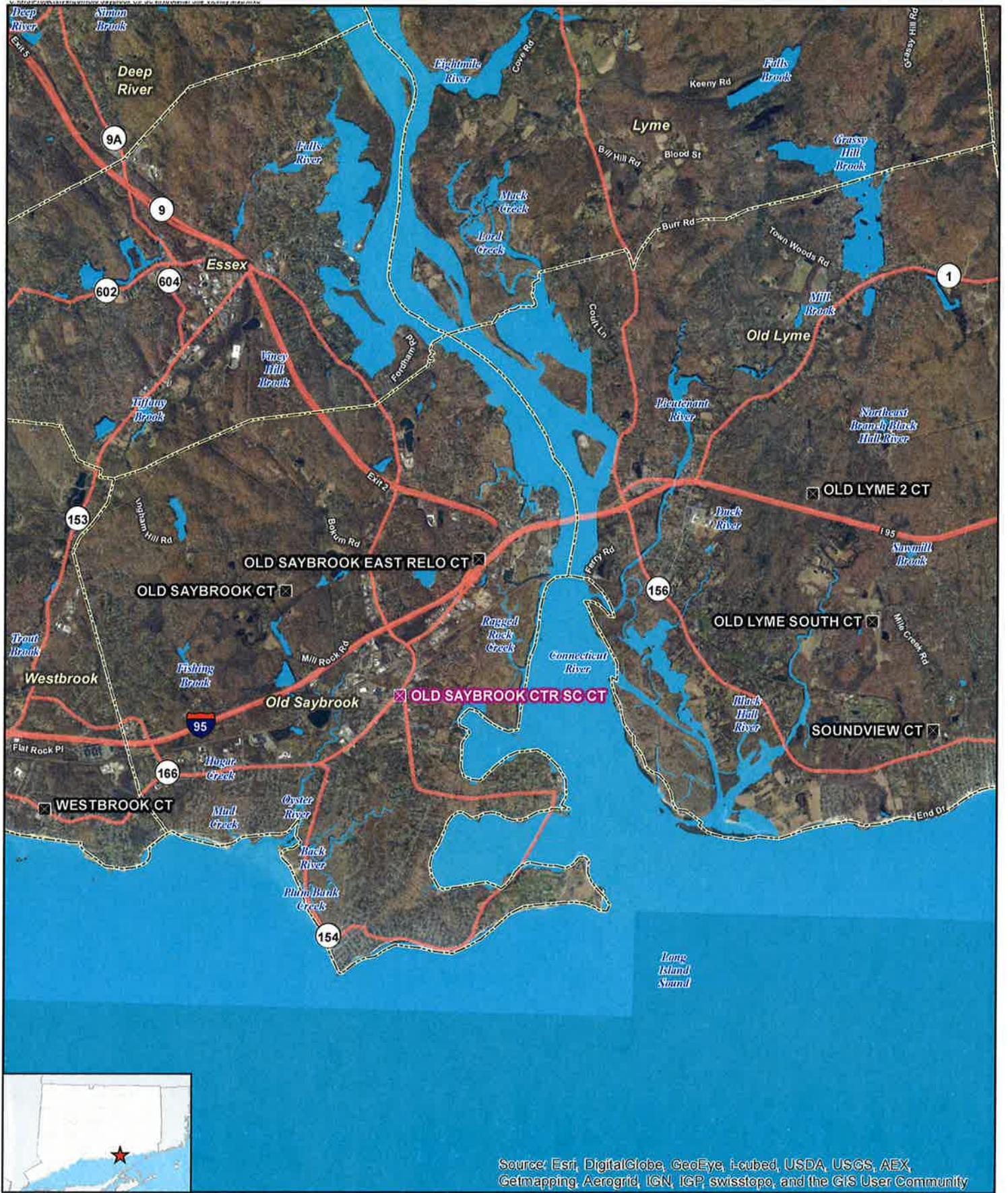
Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By 

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1

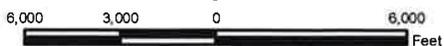


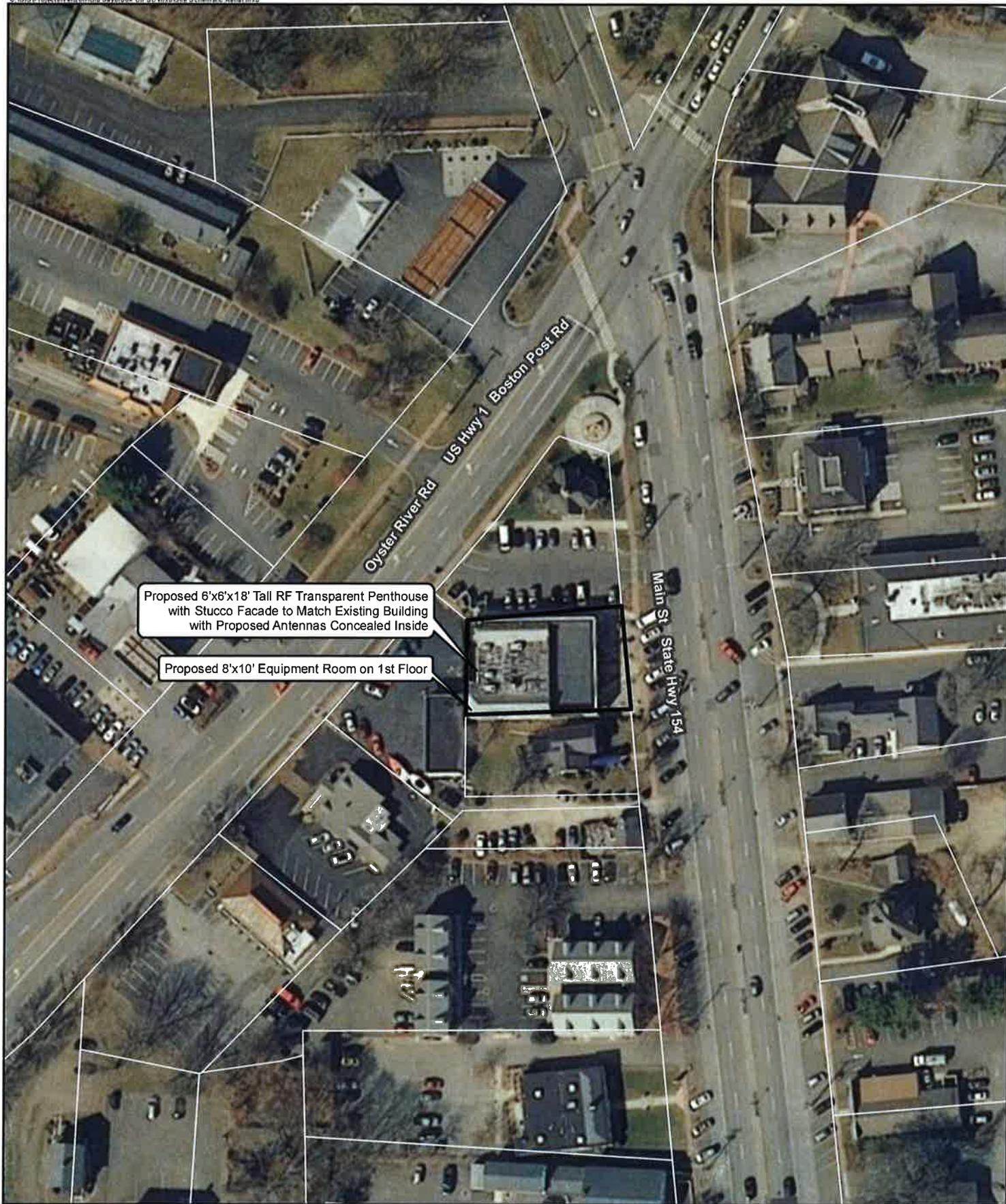
- Proposed Verizon Wireless Facility
- Surrounding Verizon Wireless Facilities
- Municipal Boundary
- Waterbody

Site Vicinity Map

Proposed Small Cell Installation
 Old Saybrook Ctr SC CT
 19 Main Street
 Old Saybrook, Connecticut

Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 6,000 feet
 Map Date: March 2015





Proposed 6'x6'x18' Tall RF Transparent Penthouse with Stucco Facade to Match Existing Building with Proposed Antennas Concealed Inside

Proposed 8'x10' Equipment Room on 1st Floor

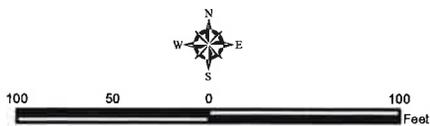
Legend

-  Host Property
-  Approximate Parcel Boundary (CTDEEP GIS)

Site Schematic

Proposed Small Cell Installation
 Old Saybrook Ctr SC CT
 19 Main Street
 Old Saybrook, Connecticut

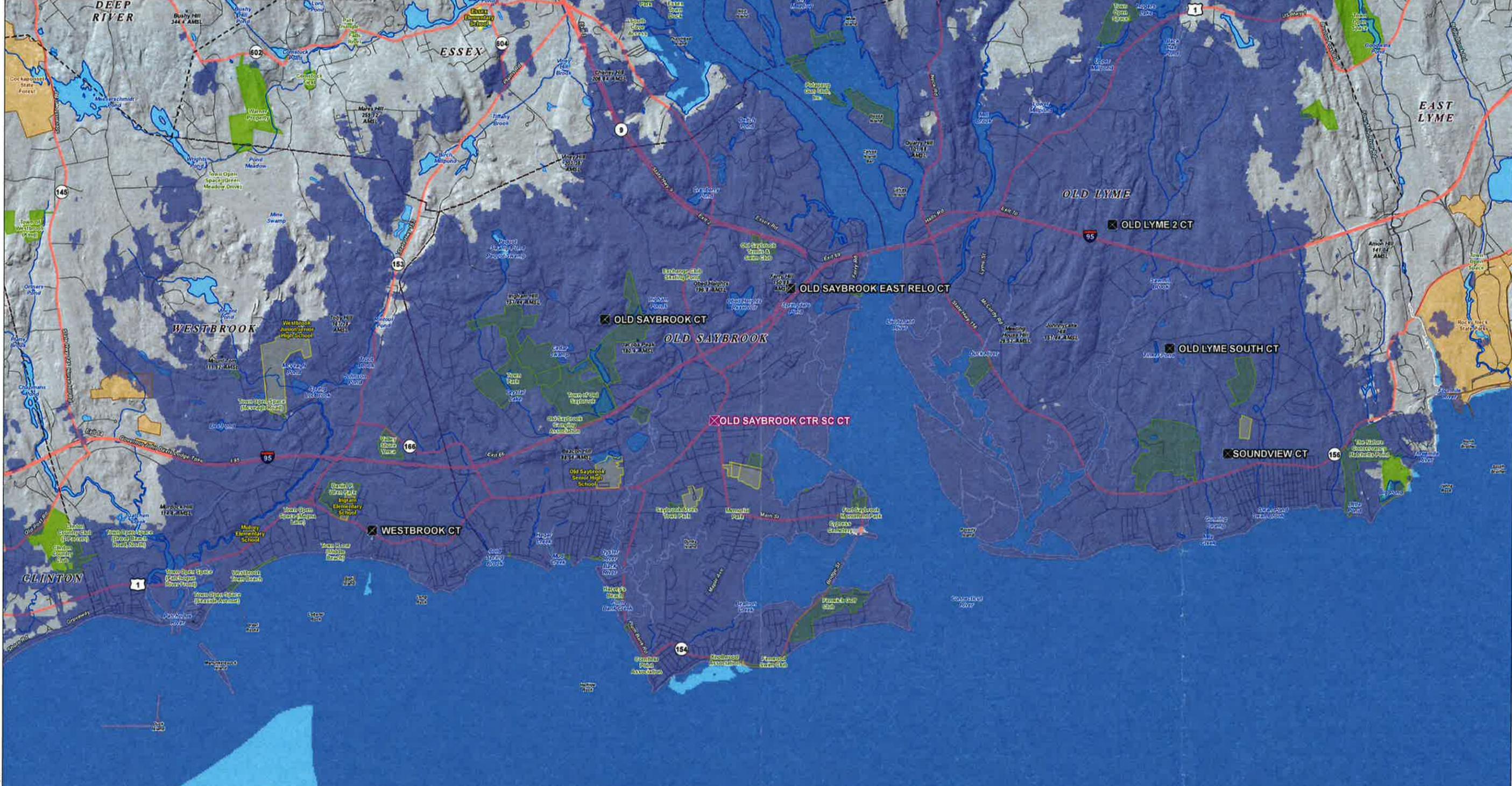
Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 100 feet
 Map Date: March 2015



ATTACHMENT 2

**Existing Verizon Wireless 700 MHz Coverage
Old Saybrook, Connecticut and Surrounding Area
(*Map Scale is 1:25,000)**

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



- Legend**
- X Proposed Verizon Wireless Small Cell Facility
 - Municipal and Private Open Space
 - Existing Verizon Wireless Facilities
 - School
 - Existing Surrounding Wireless 700 MHz Coverage
 - State Forest/Park
 - Open Water
 - Town Line
 - Major Route



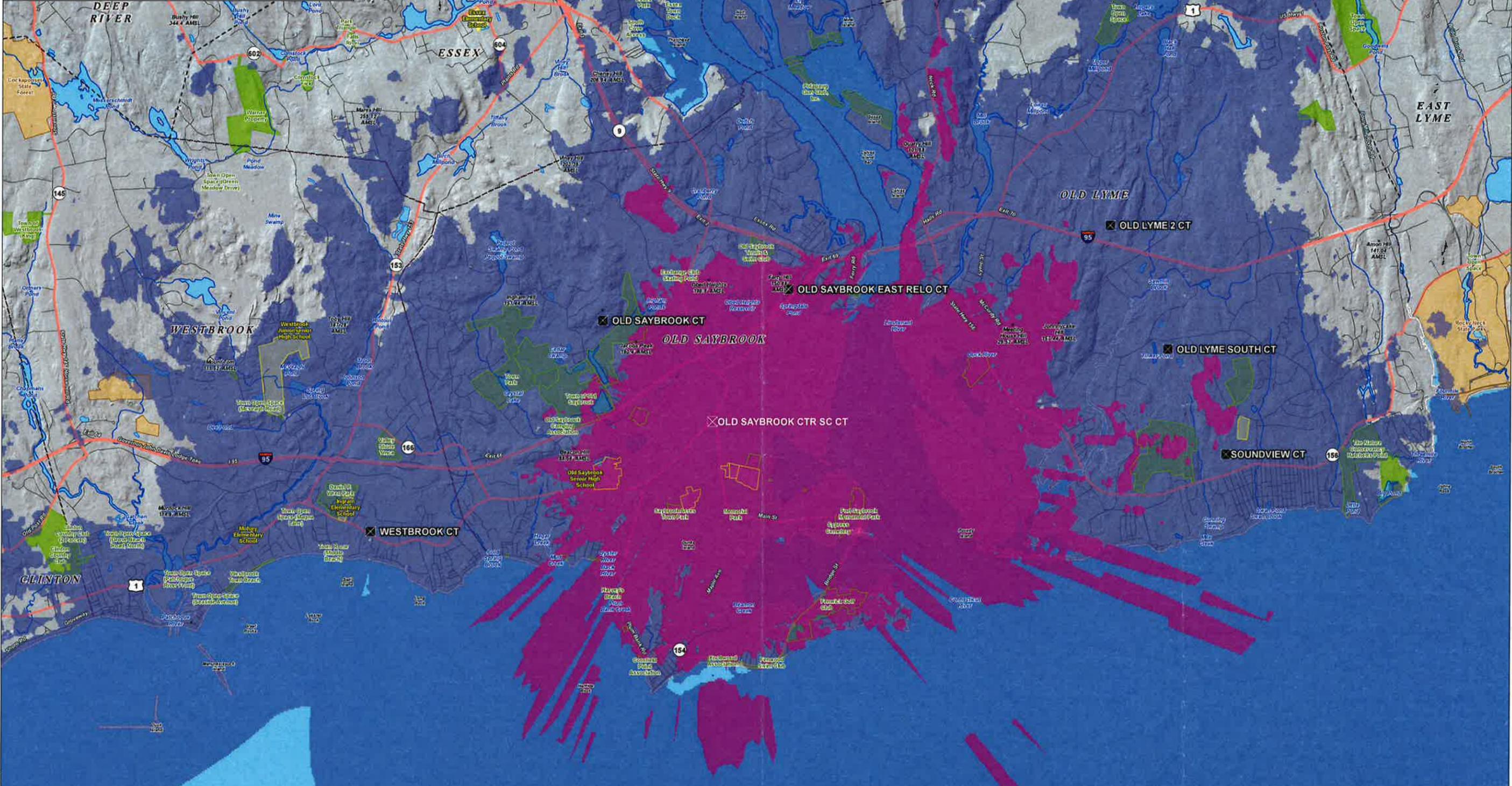





Map Notes:
This map was prepared at a map scale of 1:25,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Forest/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ©TECO Hishade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

**Proposed Verizon Wireless 700 MHz Coverage
Old Saybrook, Connecticut and Surrounding Area
(*Map Scale is 1:25,000)**

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



Legend

Proposed Verizon Wireless Small Cell Facility	Municipal and Private Open Space	Open Water
Existing Verizon Wireless Facilities	School	Town Line
Existing Surrounding Wireless 700 MHz Coverage	State Forest/Park	Major Route
Proposed Facility Wireless 700 MHz Coverage		

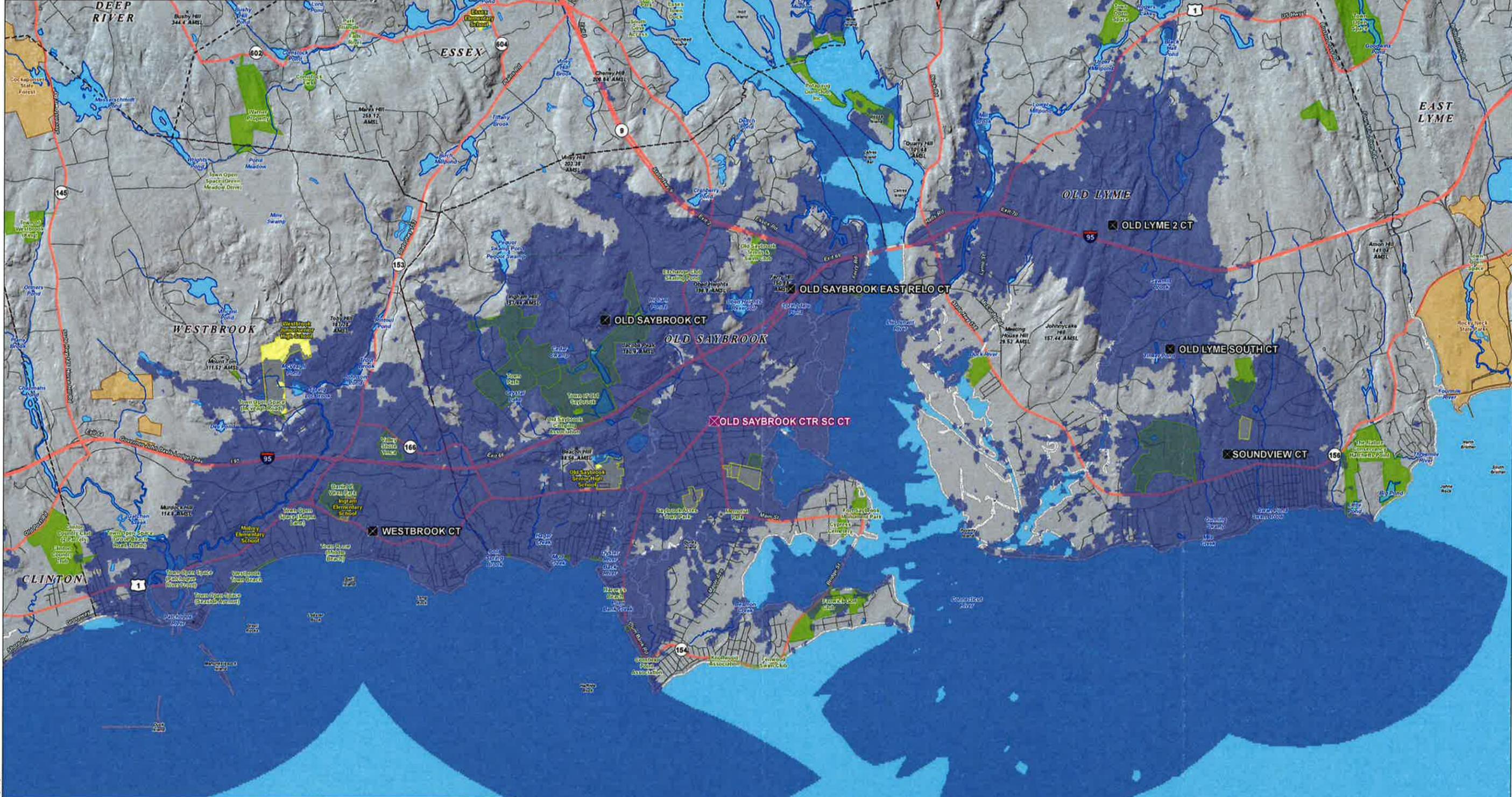
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Base map: CTECO Hiltshade (2006)

Scale: 0 0.5 1 Miles

Logos: ALL POINTS THE ENERGY CORPORATION, verizon

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

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



Legend

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

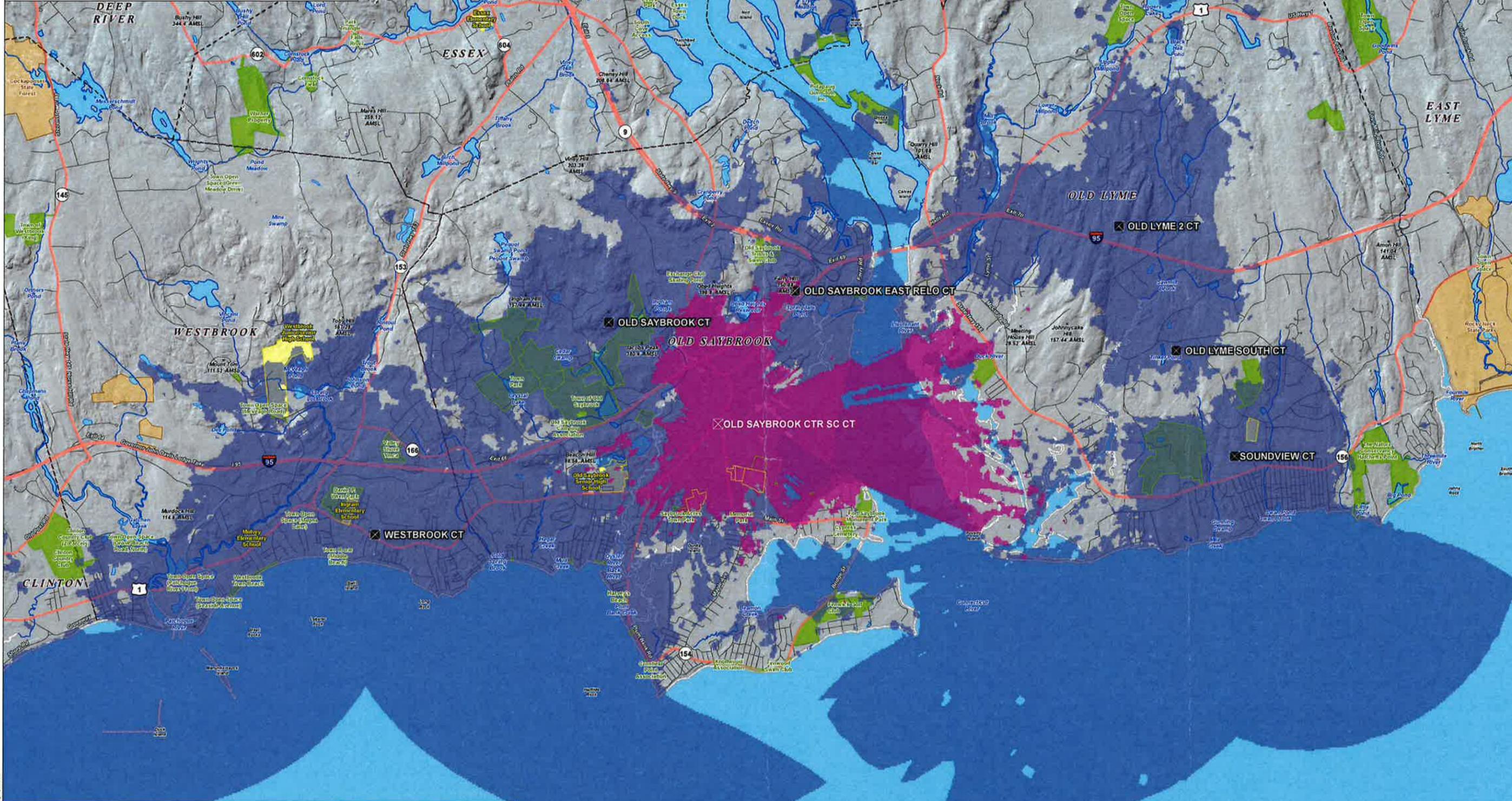
Map Notes:
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Base map: CTECO Hillshade (2009)

Scale: 0 0.5 1 Miles

Logos: ALL-POINTS TECHNOLOGY CORPORATION, verizon

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

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



Legend

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

Map Notes:
This map was prepared at a map scale of 1:25,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Forest/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: CTECO Hillshade (2006)

ALL-POINTS
TECHNOLOGY CORPORATION

verizon

0 0.5 1 Miles

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ATTACHMENT 3

**OLD SAYBROOK CTR
SC**

CSC DRAWINGS		
B	04/23/15	FOR COMMENT
A	04/07/15	FOR COMMENT



Dewberry Engineers Inc.
800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: JC

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067827

SITE ADDRESS

19 MAIN STREET
OLD SAYBROOK, CT 06475

SHEET TITLE

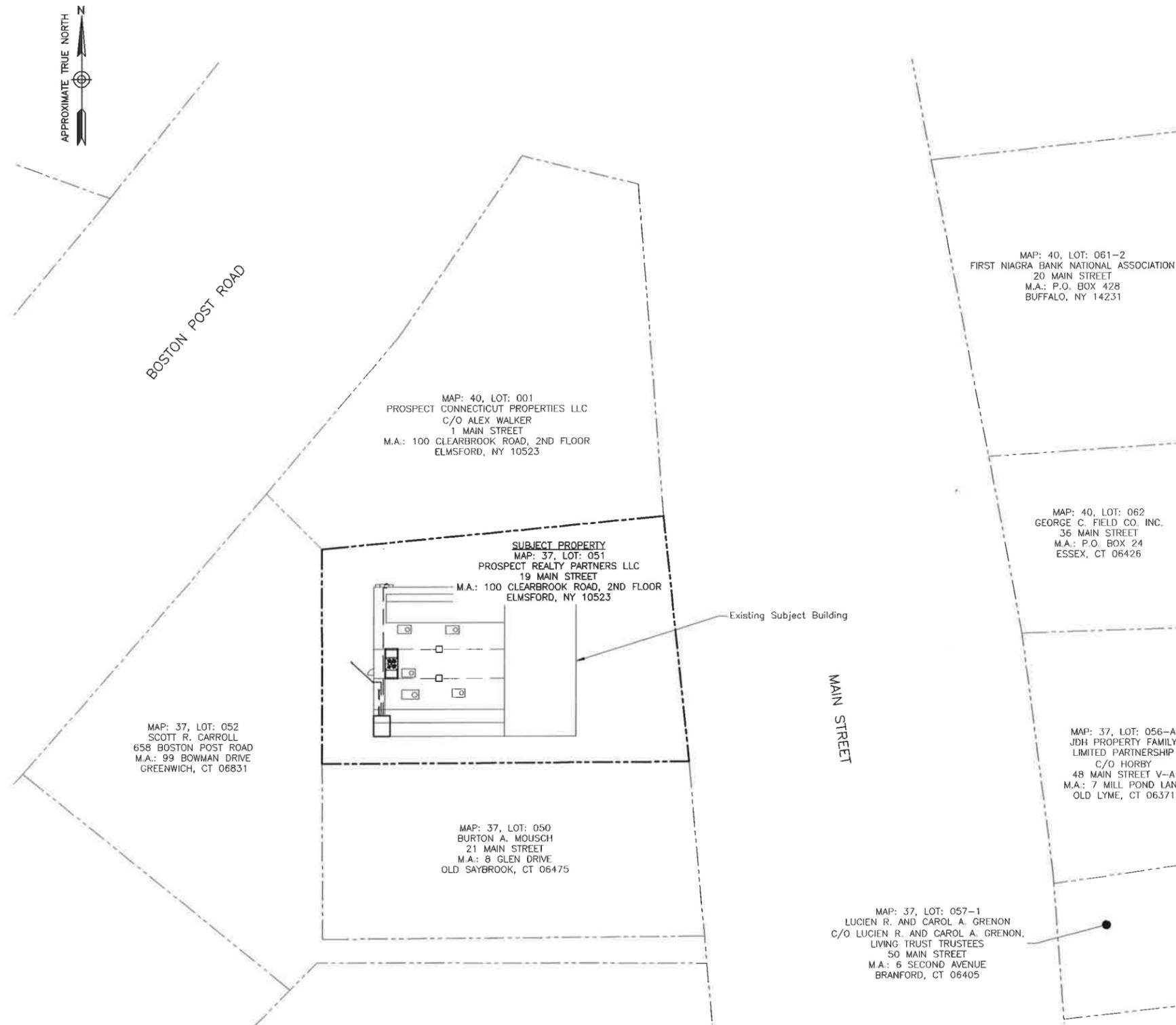
ABUTTERS MAP

SHEET NUMBER



MUNICIPALITY NOTIFICATION LIMIT MAP

1



- NOTES:
1. ABUTTERS MAP BASED ON INFORMATION OBTAINED FROM THE TOWN OF OLD SAYBROOK GEOGRAPHIC INFORMATION SYSTEM.

ABUTTERS MAP

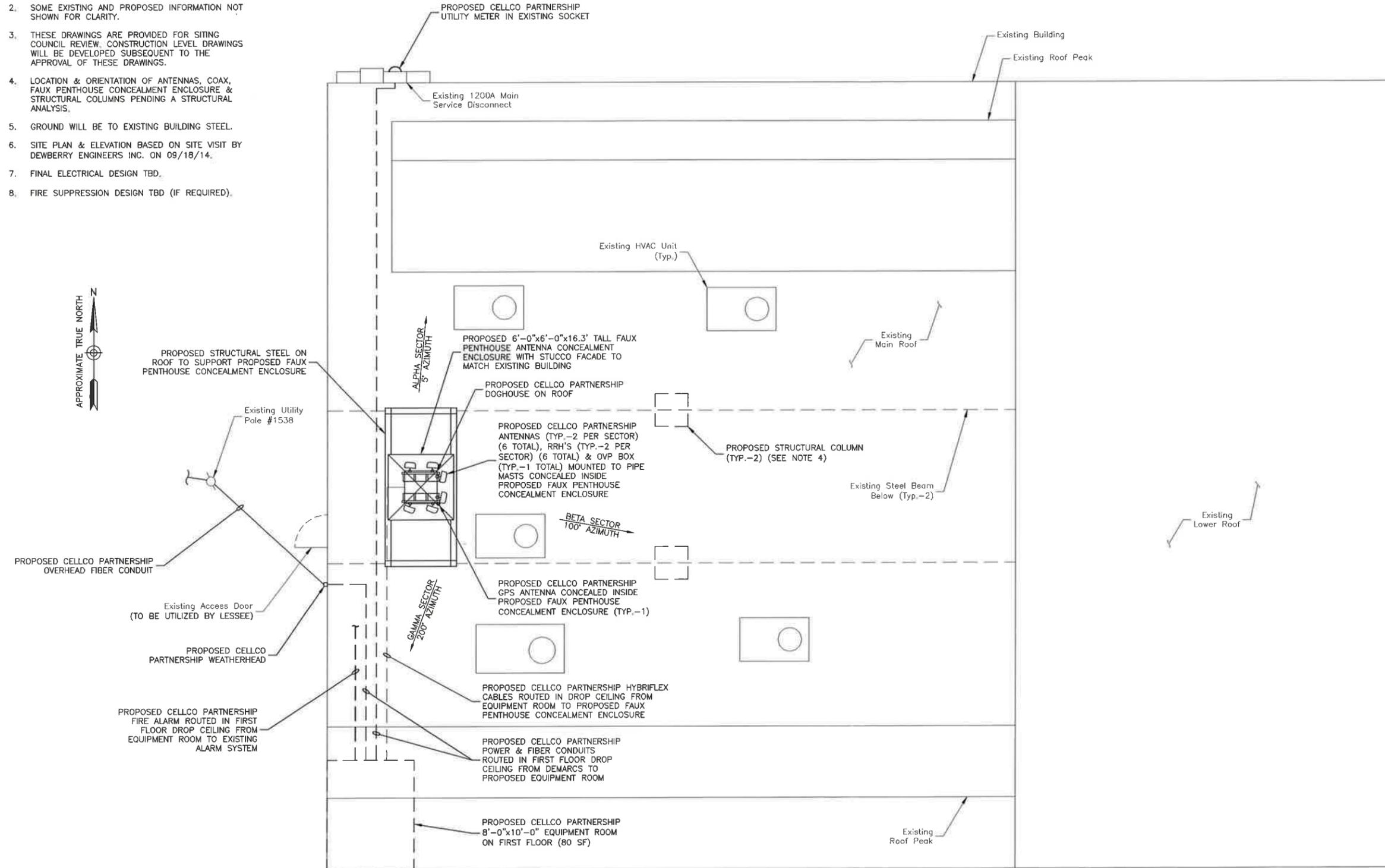
SCALE: 1"=60' FOR 11"x17"
1"=30' FOR 22"x34"



2

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. THESE DRAWINGS ARE PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
4. LOCATION & ORIENTATION OF ANTENNAS, COAX, FAUX PENTHOUSE CONCEALMENT ENCLOSURE & STRUCTURAL COLUMNS PENDING A STRUCTURAL ANALYSIS.
5. GROUND WILL BE TO EXISTING BUILDING STEEL.
6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 09/18/14.
7. FINAL ELECTRICAL DESIGN TBD.
8. FIRE SUPPRESSION DESIGN TBD (IF REQUIRED).



PARTIAL SITE PLAN

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"



1

CELLCO
PARTNERSHIP
d/b/a **verizon**wireless

**OLD SAYBROOK CTR
SC**

CSC DRAWINGS

B	04/23/15	FOR COMMENT
A	04/07/15	FOR COMMENT

Dewberry®

Dewberry Engineers Inc.

600 PARSIPPANY ROAD
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JOB NUMBER: 50067827

SITE ADDRESS

19 MAIN STREET
OLD SAYBROOK, CT 06475

SHEET TITLE

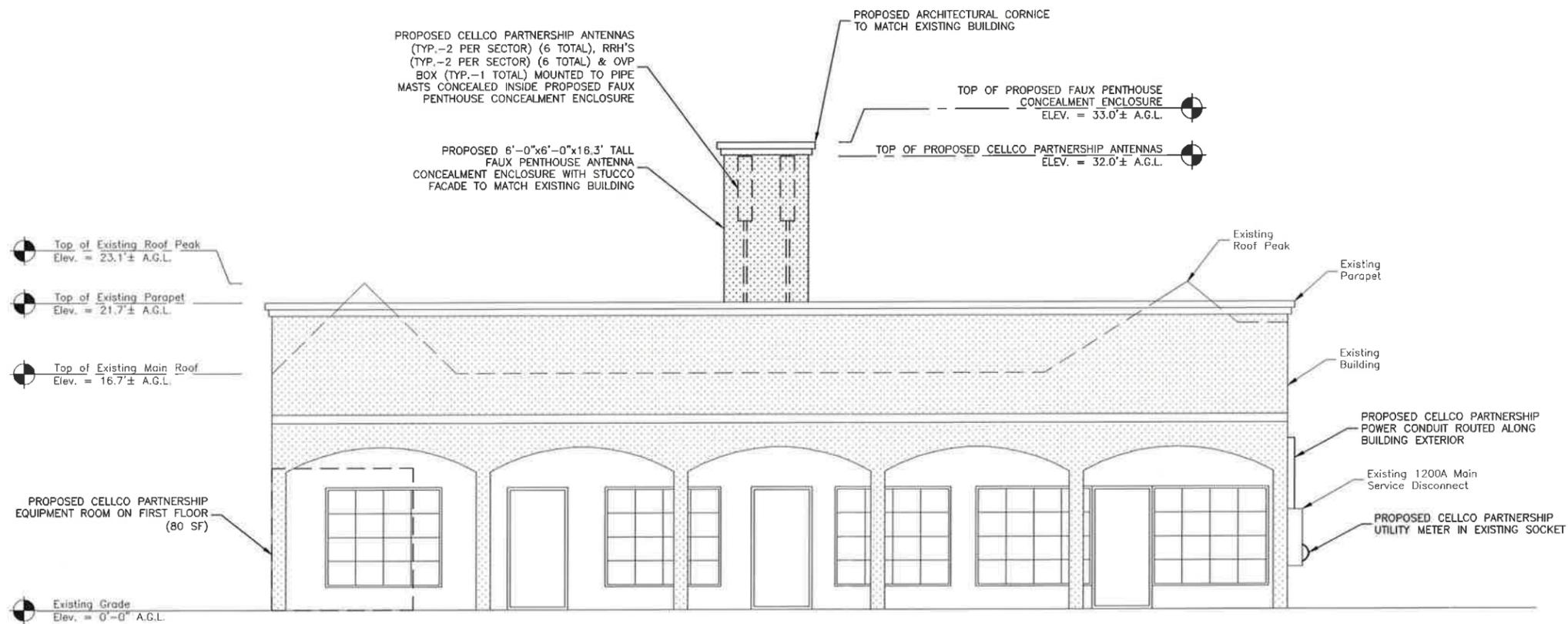
PARTIAL SITE PLAN

SHEET NUMBER

C-2

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
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3. THESE DRAWINGS ARE PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
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MAIN STREET ELEVATION

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"



1

CELLCO
PARTNERSHIP
d/b/a **verizon**wireless

**OLD SAYBROOK CTR
SC**

CSC DRAWINGS

B	04/23/15	FOR COMMENT
A	04/07/15	FOR COMMENT

Dewberry®

Dewberry Engineers Inc.

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CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067827

SITE ADDRESS

19 MAIN STREET
OLD SAYBROOK, CT 06475

SHEET TITLE

MAIN STREET ELEVATION

SHEET NUMBER

C-3

ATTACHMENT 4

Product Specifications



SBNHH-1D65A

Andrew® Tri-band Antenna, 698–896 and 2x 1695–2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

POWERED BY



Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain, dBi	13.6	13.7	16.5	16.9	17.1	17.6
Beamwidth, Horizontal, degrees	66	61	70	65	62	61
Beamwidth, Vertical, degrees	17.6	15.9	7.1	6.6	6.2	5.5
Beam Tilt, degrees	0–18	0–18	0–10	0–10	0–10	0–10
USLS, dB	16	13	13	13	12	12
Front-to-Back Ratio at 180°, dB	25	27	28	28	27	29
CPR at Boresight, dB	20	16	20	23	17	20
CPR at Sector, dB	10	5	11	6	1	4
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain by all Beam Tilts, average, dBi	13.1	13.1	16.1	16.5	16.7	17.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.5	±0.3	±0.5	±0.4
Gain by Beam Tilt, average, dBi	0° 13.4	0° 13.4	0° 16.0	0° 16.3	0° 16.5	0° 17.0
	9° 13.1	9° 13.1	5° 16.2	5° 16.5	5° 16.8	5° 17.3
	18° 12.7	18° 12.7	10° 16.1	10° 16.5	10° 16.6	10° 16.9
Beamwidth, Horizontal Tolerance, degrees	±3.1	±5.4	±2.8	±4	±6.6	±4.6
Beamwidth, Vertical Tolerance, degrees	±1.8	±1.4	±0.3	±0.4	±0.5	±0.3
USLS, dB	15	14	15	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	21	26	26	24	25
CPR at Boresight, dB	22	16	22	25	21	22
CPR at Sector, dB	10	6	12	8	5	4

* 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.](#)

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	445.0 N @ 150 km/h 100.0 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph
Antenna Dimensions, L x W x D	1409.0 mm x 301.0 mm x 180.0 mm 55.5 in x 11.9 in x 7.1 in
Net Weight	15.2 kg 33.5 lb

Alcatel-Lucent RRH2x40-07-U

REMOTE RADIO HEAD

The Alcatel-Lucent RRH2x40-07-U is a high-power, small form-factor Remote Radio Head (RRH) operating in the North American Digital Dividend / 700MHz frequency band (3GPP Band 13). The Alcatel-Lucent RRH2x40-07-U is designed with an eco-efficient approach, providing operators with the means to achieve high quality and capacity coverage with minimum site requirements.



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

The Alcatel-Lucent RRH2x40-07-U is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information. The Alcatel-Lucent RRH2x40-07-U has two transmit RF paths, 40 W RF output power per transmit path, and is designed to manage up to two-way receive diversity. The device is ideally suited to support macro coverage, with multiple-input multiple-output (MIMO) 2x2 operation in up to 10 MHz of bandwidth.

The Alcatel-Lucent RRH2x40-07-U is designed to make available all the benefits of a distributed eNodeB, with excellent RF characteristics, with low

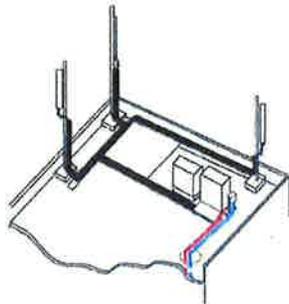
capital expenditures (CAPEX) and low operating expenditures (OPEX). The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment or require costly cranes to be employed, leaving coverage holes. However, many of these sites can host an Alcatel-Lucent RRH2x40-07-U installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

Fast, low-cost installation and deployment

The Alcatel-Lucent RRH2x40-07-U is a zero-footprint solution and operates noise-free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH2x40-07-U is compact and weighs less than 23 kg (50 lb), eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day — a fraction of the time required for a traditional BTS.

Excellent RF performance

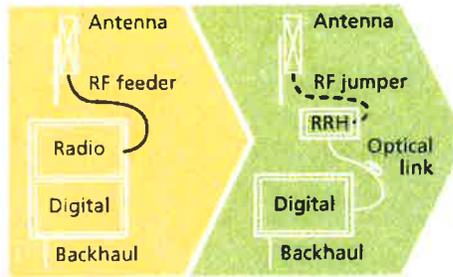
Because of its small size and weight, the Alcatel-Lucent RRH2x40-07-U can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH2x40-07-U where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder cost and installation costs are reduced or eliminated, and there is no need for a Tower Mounted Amplifier (TMA) because losses introduced by the RF feeder are greatly reduced. The Alcatel-Lucent RRH2x40-07-U provides more RF power while at the same time consuming less electricity.



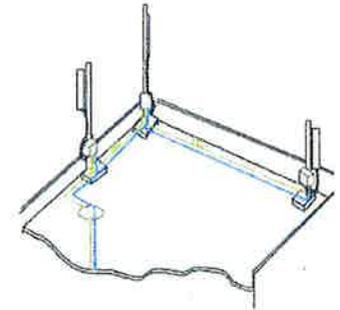
Macro

Features

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



RRH for space-constrained cell sites



Distributed

Benefits

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

Technical specifications

Physical dimensions

- Height: 390 mm (15.4 in.)
- Width: 380 mm (15 in.)
- Depth: 210 mm (8.2 in.)
- Weight (without mounting kit): less than 23 kg (50 lb)

Power

- Power supply: -48V

Operating environment

- Outdoor temperature range:
 - With solar load: -40°C to +50°C (-40°F to +122°F)
 - Without solar load: -40°C to +55°C (-40°F to +131°F)
- Passive convection cooling (no fans)

- Enclosure protection
 - IP65 (International Protection rating)

RF characteristics

- Frequency band: 700 MHz; 3GPP Band 13
- Bandwidth: up to 10 MHz
- RF output power at antenna port:
 - 40 W nominal RF power for each Tx port
- Rx diversity: 2-way or 4-way
- Noise figure: below 2.5 dB typical
- ALD features
 - TMA
 - Remote electrical tilt (RET) support (AISG v2.0)

Optical characteristics

Type/number of fibers

- Up to 3.12 Gb/s line bit rate
- Single-mode variant
 - One SM fiber (9/125 μm) per RRH2x, carrying UL and DL using CWDM (at 1550/1310 nm)
- Multi-mode variant
 - Two MM fibers (50/125 μm) per RRH2x: one carrying UL, the other carrying DL (at 850 nm)

Optical fiber length

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

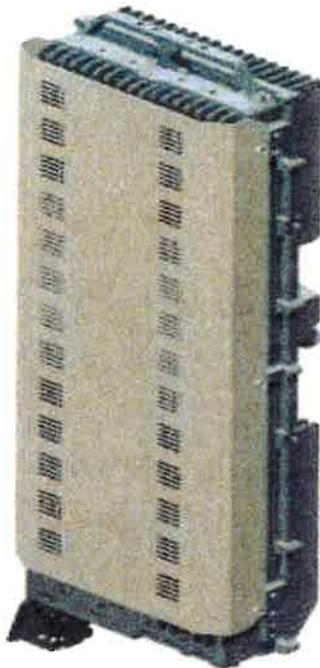
Alarms and ports

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

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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 RF 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.

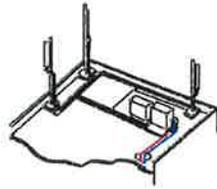
EASY INSTALLATION

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.

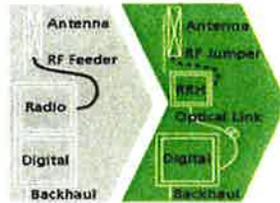
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation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

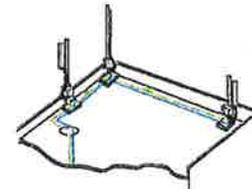
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



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

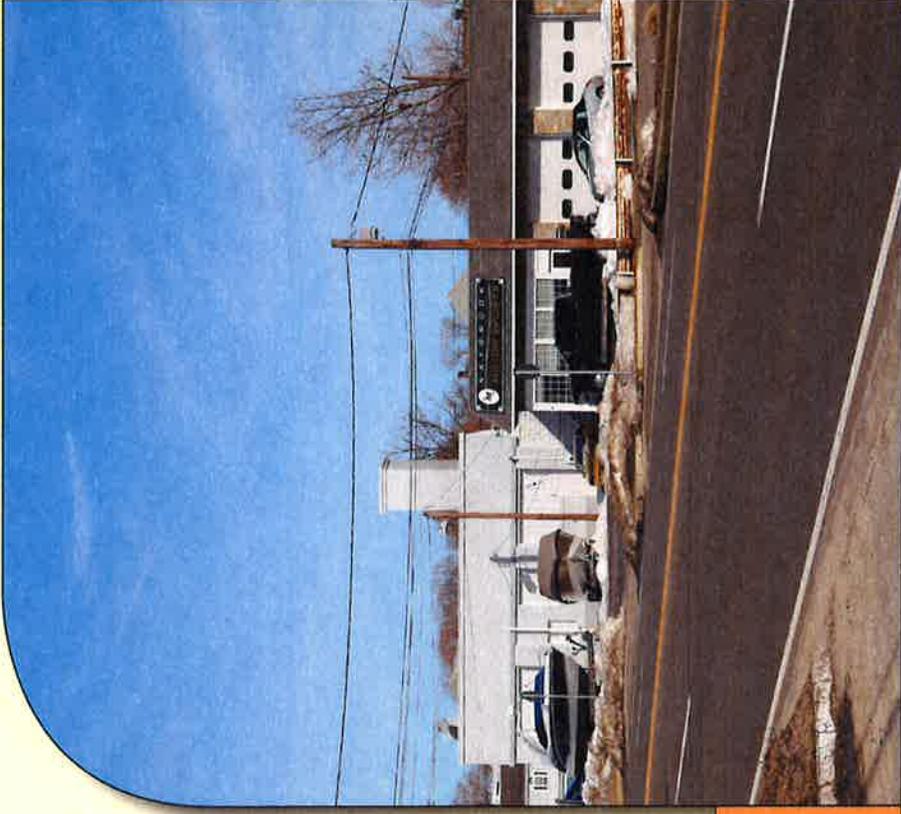
- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

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ATTACHMENT 5

Limited Visual Assessments and Photo-Simulations



OLD SAYBROOK CTR SC
19 MAIN STREET
OLD SAYBROOK, CT 06475

Prepared in March 2015 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless



LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a wireless telecommunications Facility at 19 Main Street (State Highway 151) in Old Saybrook, Connecticut (the "Property").

Project Setting

The Property is located on the east side of Boston Post Road and west of Main Street in a highly developed commercial area. The Property is developed with a two-story building currently occupied by Starbucks Coffee. The proposed Facility would include the installation of six (6) panel antennas and remote radio heads ("RRHs") concealed within an RF-transparent penthouse on the building's roof. The antennas, RRHs and associated mounting equipment would not be visible from the outside. The penthouse has been designed to match the existing building architecture and colors. It would extend approximately 16 feet above the roof (and about 33 feet above the ground level). Interior ground equipment would be located within the first floor of the building.

Methodology

On March 13, 2015, APT personnel conducted field reconnaissance and photo-documented existing conditions. Five (5) nearby locations were selected to depict existing and proposed conditions with the new installation. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens, with the lens set to 50 mm.

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

Three-dimensional computer models were developed for the building and proposed facility components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

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

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

Conclusions

The visibility of the proposed installation would be limited primarily to nearby locations along Boston Post Road and points north and west of the Property. To a lesser extent, views of the penthouse would also be achieved from Main Street north of the Property. The antennas' concealment within a penthouse results in no antenna or supporting equipment being visible from exterior locations. The penthouse's design will be consistent with the style and colors of the building such that it would appear to be an original design element of the structure. The ground equipment will be located within the building and not be visible from exterior locations. Based on the results of this assessment, it is our opinion that the proposed installation of Verizon Wireless equipment at the Property would have little to no adverse effect on existing views.

ATTACHMENTS



PHOTO LOG

- Legend
- Site
 - Photo Location





NOT VISIBLE FROM THIS LOCATION

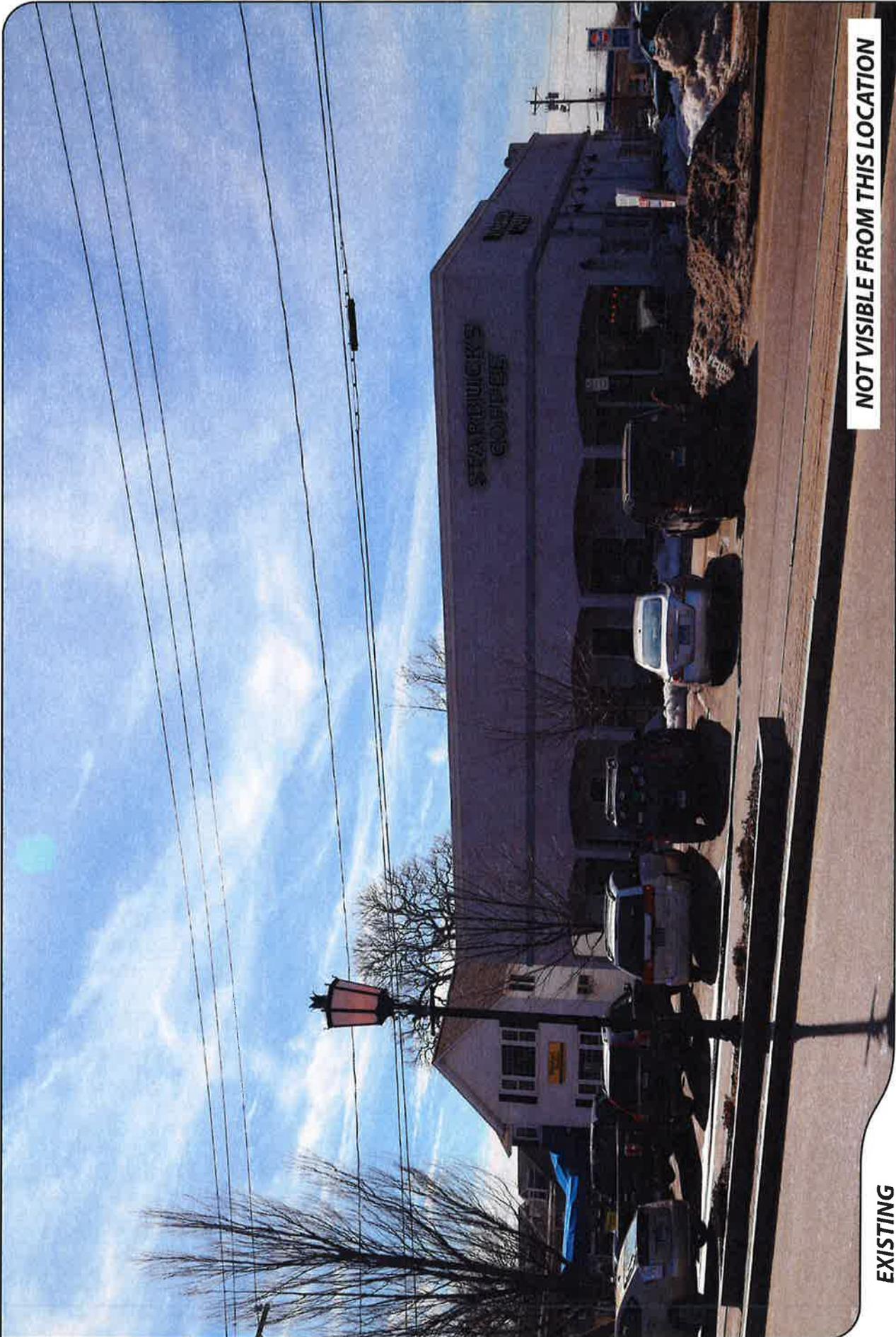
EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	MAIN STREET	NORTHWEST	+/- 217 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





NOT VISIBLE FROM THIS LOCATION

EXISTING

PHOTO

2

LOCATION

MAIN STREET

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 165 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





EXISTING

PHOTO

3

LOCATION

MAIN STREET

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 232 FEET



PROPOSED

PHOTO

3

LOCATION

MAIN STREET

ORIENTATION

SOUTHWEST

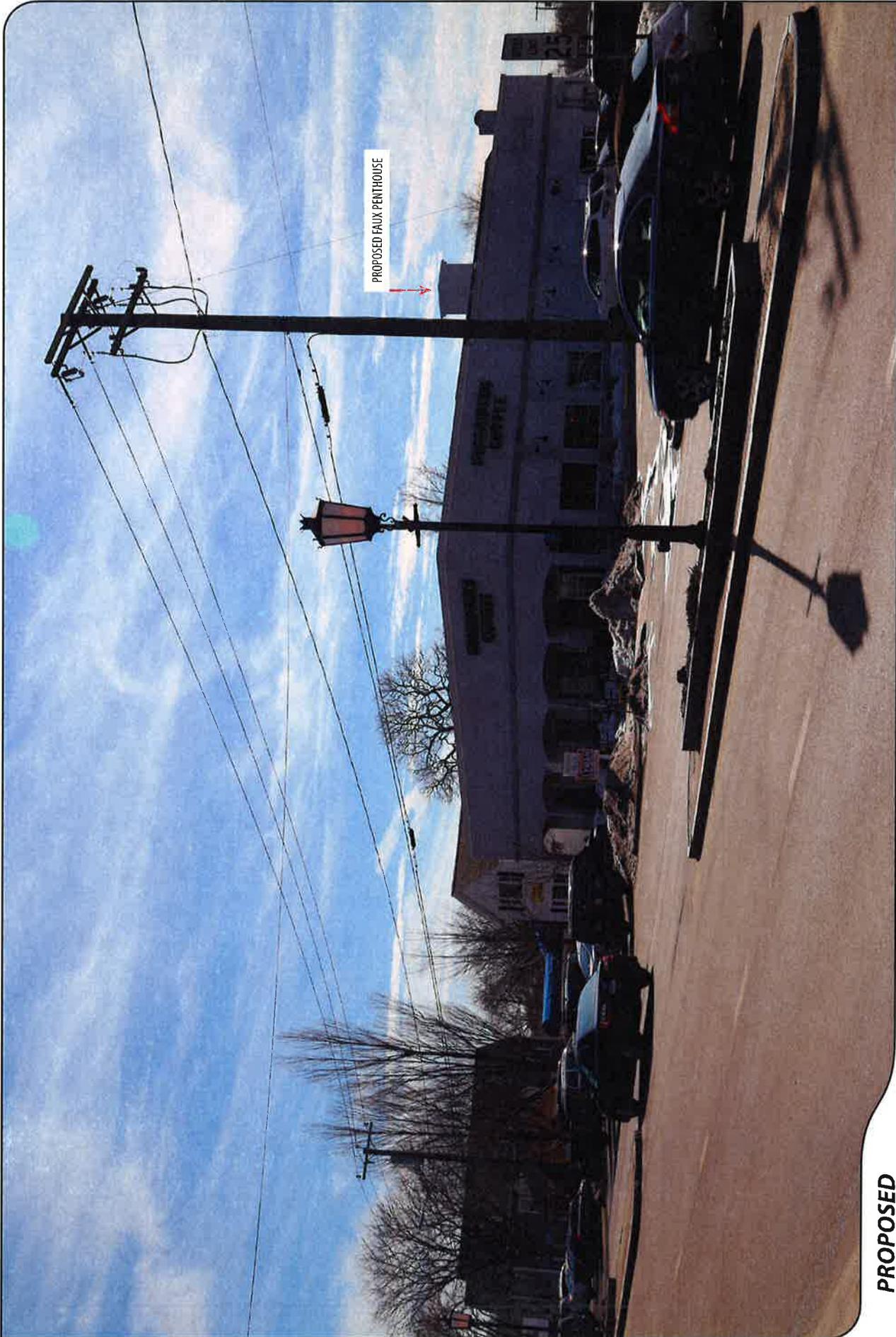
DISTANCE TO SITE

+/- 232 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED FAUX PENTHOUSE

PROPOSED

PHOTO

3

LOCATION

MAIN STREET

ORIENTATION

SOUTHWEST

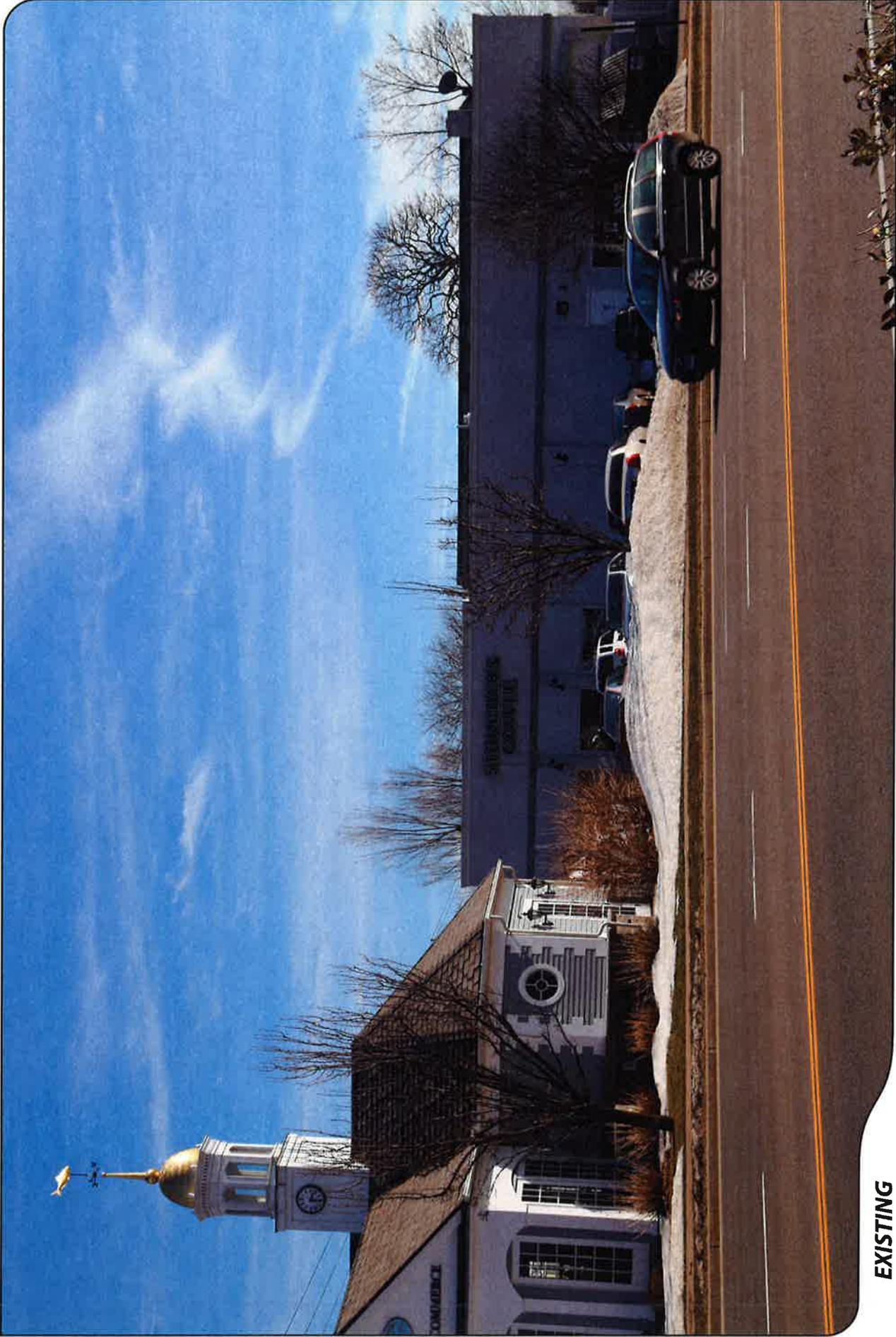
DISTANCE TO SITE

+/- 232 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





EXISTING

PHOTO

4

LOCATION

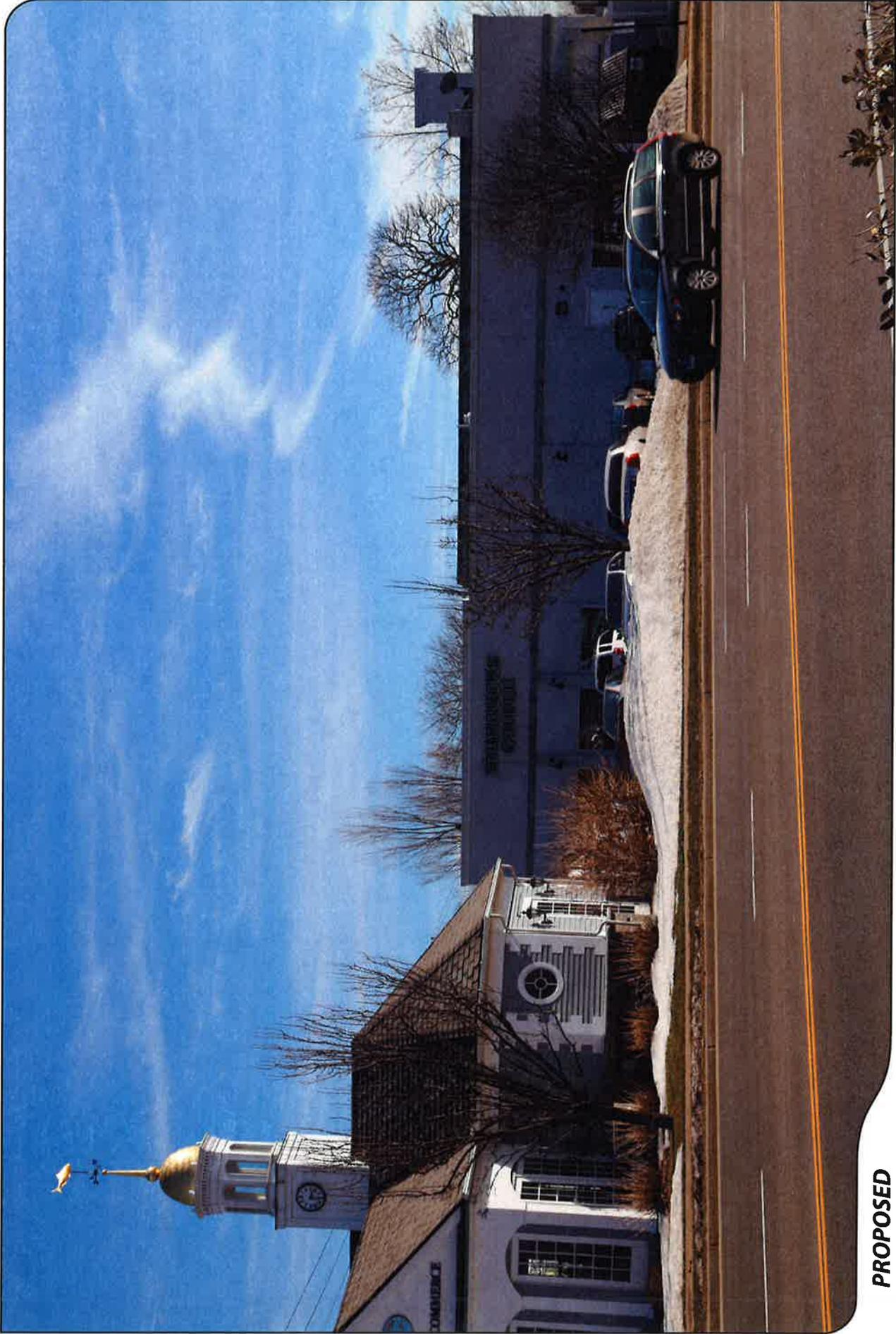
BOSTON POST ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 227 FEET



PROPOSED

PHOTO

4

LOCATION

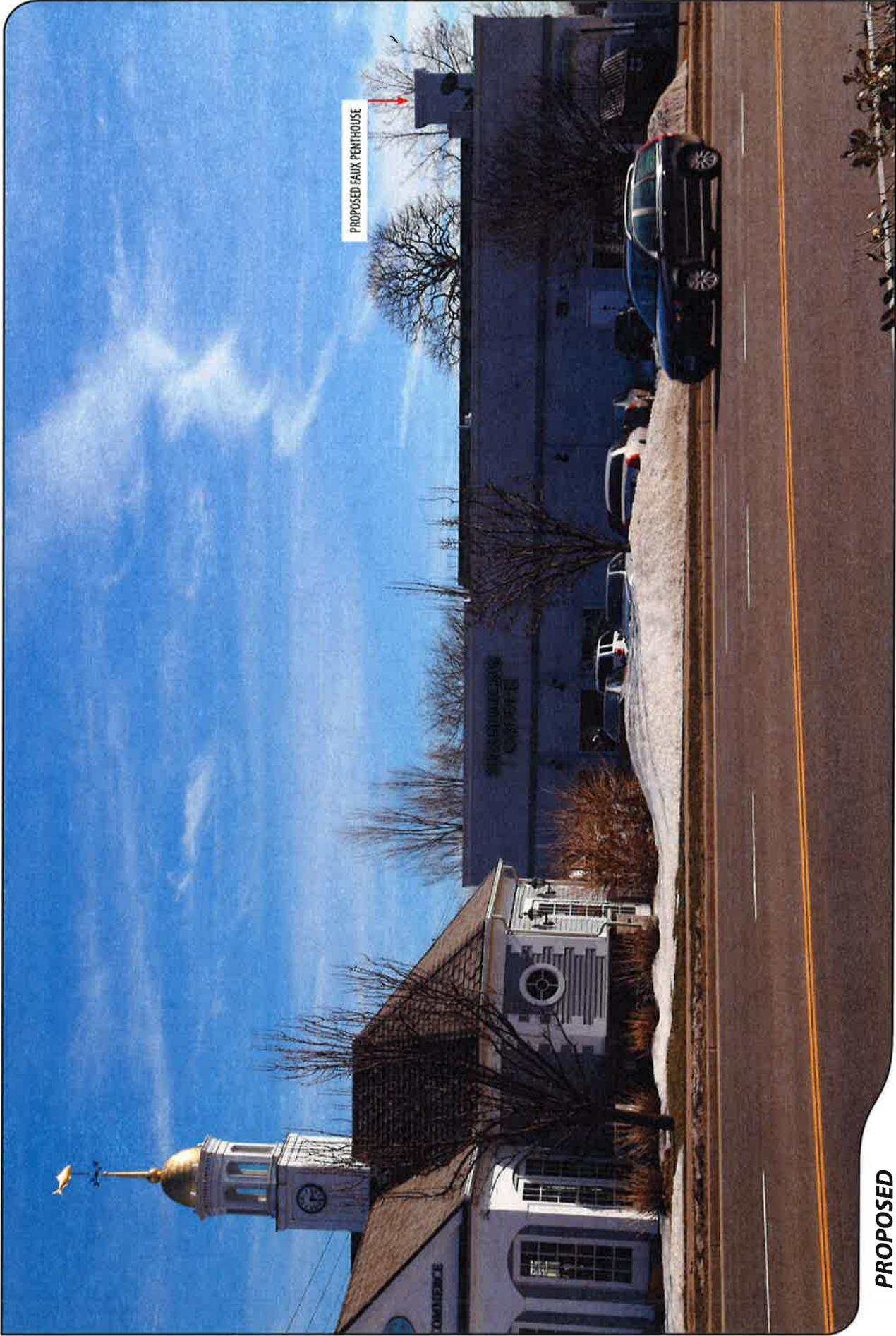
BOSTON POST ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 227 FEET



PROPOSED

PHOTO

4

LOCATION

BOSTON POST ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 227 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





EXISTING

PHOTO

5

LOCATION

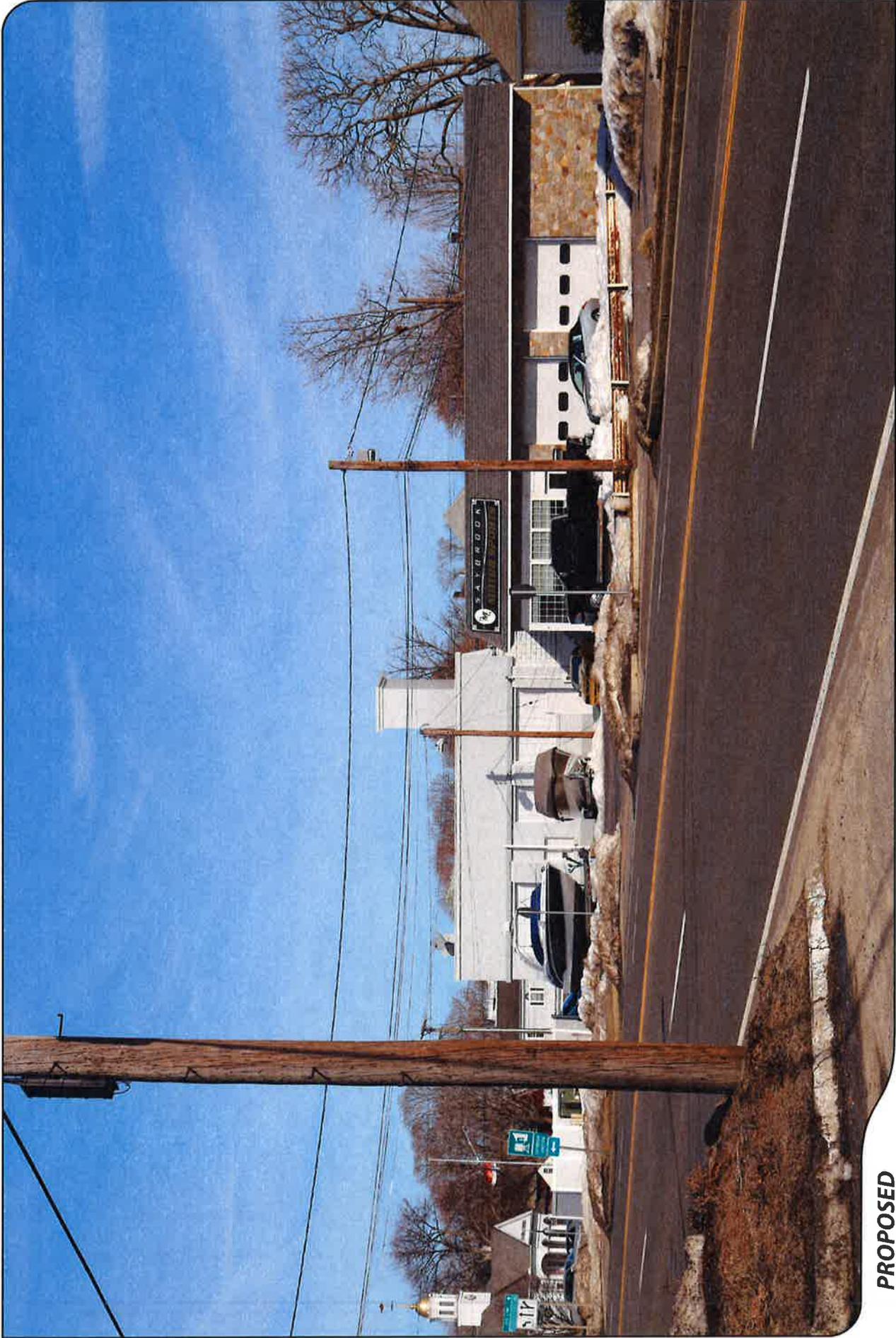
BOSTON POST ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 268 FEET



PROPOSED

PHOTO

5

LOCATION

BOSTON POST ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 268 FEET



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	BOSTON POST ROAD	NORTHEAST	+/- 268 FEET

ATTACHMENT 6

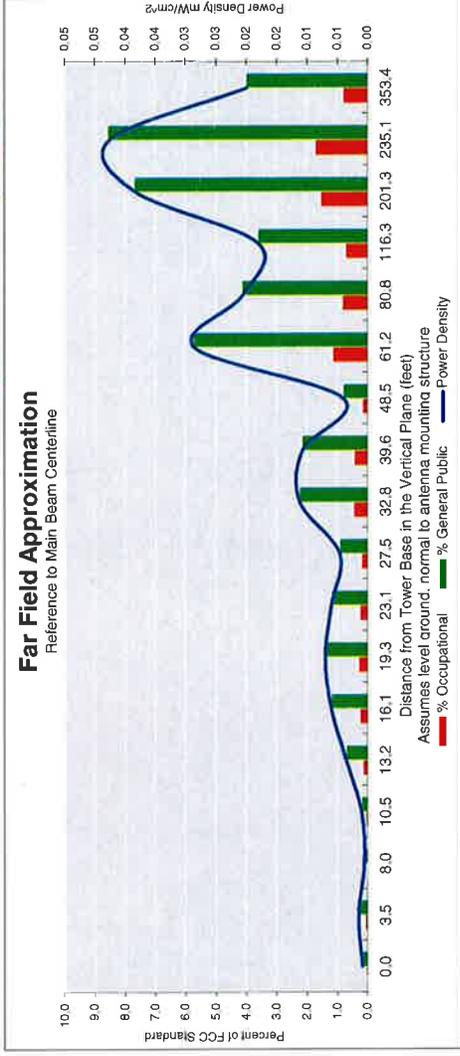
Far Field Approximation
with downtilt variation

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



Location:	OLD SAYBROOK CTR SC CT
Site #:	2-0523
Date:	03/12/15
Name:	Jaime Laredo
File Name:	OLD SAYBROOK CTR SC CT - FF POWER (LTE-700).xlsx

Operating Freq. (MHz):	746.0
Antenna Height (ft):	27.7
Antenna Gain (dBi):	13.5
Antenna Size (in.):	55.0
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
ERP (w):	513.1
Number of Channels:	1

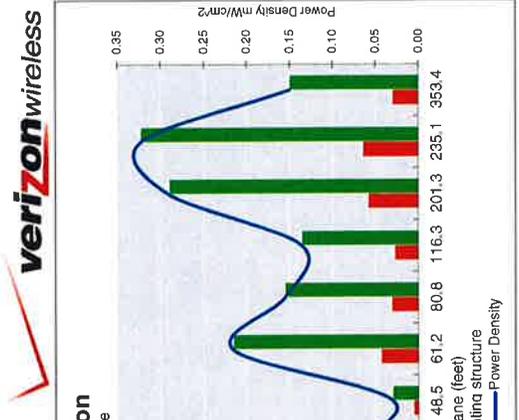


Calc. Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	24.7	24.9	26.0	26.8	28.0	29.5	31.4	33.8	36.9	41.1	46.6	54.4	66.0	84.5	118.9	202.8	236.4	354.3
Distance from Antenna Structure Base in Horizontal Plane	0.0	3.5	8.0	10.5	13.2	16.1	19.3	23.1	27.5	32.8	39.6	48.5	61.2	80.8	116.3	201.3	235.1	353.4
Angle from Main Beam (referenced 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)	3676	3435	3852	3534	2954	268	2559	2563	2599	2121	2029	2324	1303	123	992	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.03	0.02	0.04	0.04	0.02
Percent of Occupational Standard	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.2	0.5	0.4	0.2	1.1	0.8	0.7	1.5	1.7	0.8
Percent of General Population Standard	0.2	0.3	0.1	0.2	0.7	1.2	1.4	1.2	0.9	2.3	2.2	0.8	5.7	4.1	3.6	7.7	8.6	4.0

Antenna Type: **SBHHH-1D65A**
Max%: **8.58%**

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

Location:	OLD SAYBROOK CTR SC CT
Site #:	2-0523
Date:	03/12/15
Name:	Jaime Laredo
File Name:	OLD SAYBROOK CTR SC CT - FF POWER (LTE-AWS).xlsx
Operating Freq. (MHz):	2120.0
Antenna Height (ft):	27.7
Antenna Gain (dBi):	17.0
Antenna Size (in.):	55.0
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
ERP (w):	1713.8
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	24.7	24.9	26.0	26.8	28.0	29.5	31.4	33.8	36.9	41.1	46.6	54.4	66.0	84.5	118.9	202.8	236.4	354.3
Distance from Antenna Structure Base in Horizontal plane	0.0	3.5	8.0	10.5	13.2	16.1	19.3	23.1	27.5	32.8	39.6	48.5	61.2	80.8	116.3	201.3	235.1	353.4
Angle from Main Beam (referenced 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)	0.01	0.01	0.00	0.01	0.03	0.05	0.05	0.05	0.03	0.08	0.08	0.09	0.22	0.16	0.14	0.29	0.32	0.15
Percent of Occupational 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	6.5	3.0
Percent of General Population Standard	0.7	1.1	0.4	0.8	2.7	4.6	5.3	4.5	3.5	8.5	8.1	3.0	21.7	15.6	13.6	29.0	32.3	15.1

Antenna Type: **SBNHH-1D65A**
Max%: **32.35%**

ATTACHMENT 7

* Federal Airways & Airspace *
* Summary Report: Alteration Of Existing Structure *
* Antenna Structure *

*

Airspace User: Your Name

File: OLD_SAYBROOK_CTR_CT

Location: Old Saybrook, CT

Latitude: 41°-17'-47.00" Longitude:

72°-22'-38.55"

SITE ELEVATION AMSL.....2 ft.
STRUCTURE HEIGHT.....51 ft.
OVERALL HEIGHT AMSL.....53 ft.

NOTICE CRITERIA

- FAR 77.9(a): NNR (DNE 200 ft AGL)
- FAR 77.9(b): NNR (DNE Notice Slope)
- FAR 77.9(c): NNR (Not a Traverse Way)
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for SNC
- FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for 42B
- FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at

bottom

of this report.

If the proposed construction is an alteration to an existing structure, notice requirements may be superceded by the item exemptions listed below.

The location and analysis were based upon an existing structure. However, no existing aeronautical study number was identified. If the 'existing' structure penetrates an obstruction surface defined by CFR 77.17, 77.19, 77.21 or 77.23 (see below) it is strongly recommended the FAA be notified of the 'existing' structure to determine obstruction marking or lighting

requirements. It is not uncommon for the FAA to issue a Determination of No Hazard (DNH) for an existing structure and modify the airspace to accommodate the structure, should that be required. If the FAA issues a DNH enter the aeronautical study number (ASN) in the space provided on the Airspace Analysis Window Form and re-run Airspace.

No frequencies were identified in this alteration are included in the FAA's Co-Location Policy published in the Federal Register November 15, 2007.

Therefore, application of the Co-Location Policy notice exemption rule can not be applied.

Title 14 CFR Part 77.9(e), Notice Criteria Exception:
The location and analysis were based upon an existing antenna structure with the alteration limited to the addition of an antenna with a height increase of more than one (1) foot. Title 14 CFR Part 77.9(e)(4) specifically prohibits application of this rule when adding an antenna to an existing antenna structure. If the increase in height of the existing antenna structure exceeds notice requirements, notice to the FAA is mandatory.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: SNC: CHESTER

Type: A RD: 46444.56 RE: 408
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): Does Not Apply.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: 42B: GOODSPEED

Type: A RD: 56130.78 RE: 7
FAR 77.17(a)(1): DNE

.02	HVN	VOR/DME	R	109.8	264.75	140128	+47	CT	NEW HAVEN
	ORW	VOR/DME	I	110.0	47.46	140443	-257	CT	NORWICH
-.1	QVH	RADAR ARSR	Y	1326.9	209.2	174522	-298	NY	RIVERHEAD
-.1	CCC	VOR/DME	R	117.2	220.85	177050	-32	NY	CALVERTON
-.01	FOK	TACAN	R	NA	202.69	181238	+3	NY	SUFFOLK CO
0.00	OKX	RADAR WXL	Y		220.35	206483	-168	NY	BRENTWOOD
-.05	BDR	VOR/DME	R	108.8	256.22	211380	+44	CT	BRIDGEPORT
.01									

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.

Movement Method Proof as specified in §73.151(c) is not required. Please review 'AM Station Report' for details.

Nearest AM Station: WLIS @ 3551 meters.

Airspace® Summary Version 14.11.376

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03-13-2015
 16:26:35

ATTACHMENT 8

April 28, 2015

Via Certified Mail, Return Receipt Requested

Carl P. Fortuna, Jr.
First Selectman
Town Hall
302 Main Street
Old Saybrook, CT 06475

Re: **Installation of a Small Cell Telecommunications Facility at 19 Main Street, Old Saybrook, Connecticut**

Dear Mr. Fortuna:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a “small cell” telecommunications facility at 19 Main Street in Old Saybrook (the “Property”).

The proposed small cell facility would consist of three (3) antenna tower masts attached to the roof of the building. The masts would support six (6) panel-type antennas and six (6) remote radio heads (“RRHs”). The tower masts, antennas and RRHs will be located behind a concealment structure designed to appear as a roof-top penthouse. Equipment associated with the antennas will be located inside the existing building.

A copy of Cellco’s Petition is attached for your review, was sent to the Owner of the Property and was mailed to the owners of each abutting parcel.

Robinson+Cole

Carl P. Fortuna, Jr.
April 28, 2015
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

April 28, 2015

Via Certified Mail, Return Receipt Requested

Prospect Realty Partners LLC
c/o Alex Wagner
100 Clearbrook Road, 2nd Floor
Elmsford, NY 10523

Re: Installation of a Small Cell Telecommunications Facility at 19 Main Street, Old Saybrook, Connecticut

Dear Mr. Wagner:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a “small cell” telecommunications facility at 19 Main Street in Old Saybrook (the “Property”).

The proposed small cell facility would consist of three (3) antenna tower masts attached to the roof of the building. The masts would support six (6) panel-type antennas and six (6) remote radio heads (“RRHs”). The tower masts, antennas and RRHs will be located behind a concealment structure designed to appear as a roof-top penthouse. Equipment associated with the antennas will be located inside the building.

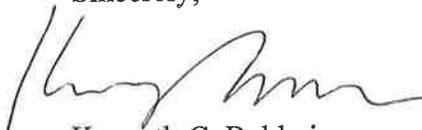
A copy of Cellco’s Petition is attached for your review, was sent to Old Saybrook’s First Selectman, Carl Fortuna and was mailed to the owners of each abutting parcel.

Robinson + Cole

Prospect Realty Partners LLC
April 28, 2015
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

ATTACHMENT 9

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

April 28, 2015

Via Certified Mail, Return Receipt Requested

«Name_and_Address»

Re: Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a “Small Cell” Telecommunications Facility at 19 Main Street, Old Saybrook, Connecticut

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new “small cell” telecommunications facility at 19 Main Street in Old Saybrook (the “Property”).

The proposed small cell facility would consist of three (3) antenna tower masts attached to the roof of the building. The masts would support six (6) panel-type antennas and six (6) remote radio heads (“RRHs”). The masts, antennas and RRHs will be located behind a concealment structure designed to appear as a roof-top penthouse. Equipment associated with the antennas will be located inside the building. A copy of the Petition is attached for your review.

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council’s process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

April 28, 2015
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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:
Timothy Parks

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

**ABUTTERS LIST
MAP 37/LOT 051**

**19 MAIN STREET
OLD SAYBROOK, CONNECTICUT**

	<u>Map/Lot</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	40/001	1 Main Street	Prospect Connecticut Properties LLC c/o Alex Walker 100 Clearbrook Road, 2 nd Floor Elmsford, NY 10523
2.	37/052	658 Boston Post Road	Scott R. Caroll 99 Bowman Drive Greenwich, CT 06831
3.	37/050	21 Main Street	Burton A. Mousch 8 Glen Drive Old Saybrook, CT 06475-3025
4.	37/057-1	50 Main Street	Lucien R. and Carol A. Grenon c/o Lucien R. and Carol A. Grenon, Living Trust Trustees 6 Second Avenue Branford, CT 06405
5.	37/056-A	48 Main Street V-A	JDH Property Family Limited Partnership c/o Horby 7 Mill Pond Lane Old Lyme, CT 06371
6.	40/062	36 Main Street	George C. Field Co. Inc. P.O. Box 24 Essex, CT 06426
7.	40/061-2	20 Main Street	First Niagra Bank National Association P.O. Box 428 Buffalo, NY 14231