

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
PETITION MODIFICATION – CELLCO	:	PETITION NO. 1155
PARTNERSHIP D/B/A VERIZON WIRELESS	:	MODIFICATION
FOR A DECLARATORY RULING ON THE	:	
NEED TO OBTAIN A SITING COUNCIL	:	
CERTIFICATE FOR THE INSTALLATION OF	:	
A SMALL CELL TELECOMMUNICATIONS	:	
FACILITY AT 19 MAIN STREET, OLD	:	
SAYBROOK, CONNECTICUT	:	APRIL 1, 2016

MODIFICATION TO PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

On April 28, 2015, Cellco Partnership d/b/a Verizon Wireless (“Cellco”) filed a petition with the Connecticut Siting Council (the “Council”) seeking a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” telecommunications facility (“Facility”) on an existing commercial building at 19 Main Street (Route 154) in Old Saybrook, Connecticut (the “Property”). The Petition (No. 1155) was approved by the Council on May 28, 2015. The Facility has not yet been constructed.

II. Proposed Facility Modifications

The approved Facility will consist of antennas and Remote Radio Heads (“RRHs”) on tower/masts attached to the roof of the existing building. The antennas, RRHs and mast will be concealed inside an RF transparent enclosure designed to appear as a mechanical penthouse. 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.

The proposed Facility modifications involve the installation of a 25 kW back-up generator and a single air conditioning (A/C) condensing unit, both located on a 8' x 14' steel platform in the center of the roof of the building. The generator will be fueled by natural gas, connecting to existing service at the Property. At the request of the building owner, Cellco will also be relocating its equipment to a new 12' x 13' equipment room inside the building. (See Cellco's Project Plans included in Attachment 1). Specifications for the back-up generator and A/C condensing unit is included in Attachment 2.

III. Discussion

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

The Public Utility Environmental Standards Act (the "Act"), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid "a significant impact on the environment and ecology of the State of Connecticut." C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of wireless telecommunication facilities "that may, as determined by the council, have a substantial adverse environmental effect". C.G.S. § 16-50k(a). Cellco respectfully submits that the proposed modifications to the approved Facility will not have a substantial adverse environmental effect and will be consistent with the Council's May 28, 2015 ruling in Petition No. 1155.

1. Physical Environmental Effects

Cellco respectfully submits that the installation of an 8' x 14' steel platform on the roof of

the building, supporting a 25 kW back-up generator and a new A/C condenser and the relocation of equipment inside the 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 these Facility modifications. Project engineers have determined that the building's roof is structurally capable of supporting the steel platform, generator and condensing units. (See Structural Feasibility Letter included in Attachment 3).

2. Visual Effects

Due to existing architectural features on the building (roof lines and parapet walls), the steel platform, generator and A/C condensing unit would not be visible, at street level, from areas on or around the Property. The proposed modifications would, therefore, have no additional visual impact. (See March 2016 Visual Assessment and Photo-Simulations ("Visual Report") included in Attachment 4).

3. Noise

Noise from the proposed generator and A/C unit would comply, in all respects with State and local noise standards. Included in Attachment 5 is a HMB Acoustics Study confirming that the Facility will comply with the appropriate requirements.

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

On April 1, 2016, a copy of this Petition Modification filing was sent to Carl B. Fortuna, Jr., First Selectman of Old Saybrook and Prospect Realty Partners LLC, the owner of the Property. Included in Attachment 6 are copies of the letters sent to First Selectman Fortuna and the Property owner.

A copy of this Petition Modification 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 7.

IV. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a modified declaratory ruling that the installation of a back-up generator and two A/C units on the roof of the building will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

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

ATTACHMENT 1

Cellco Partnership

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

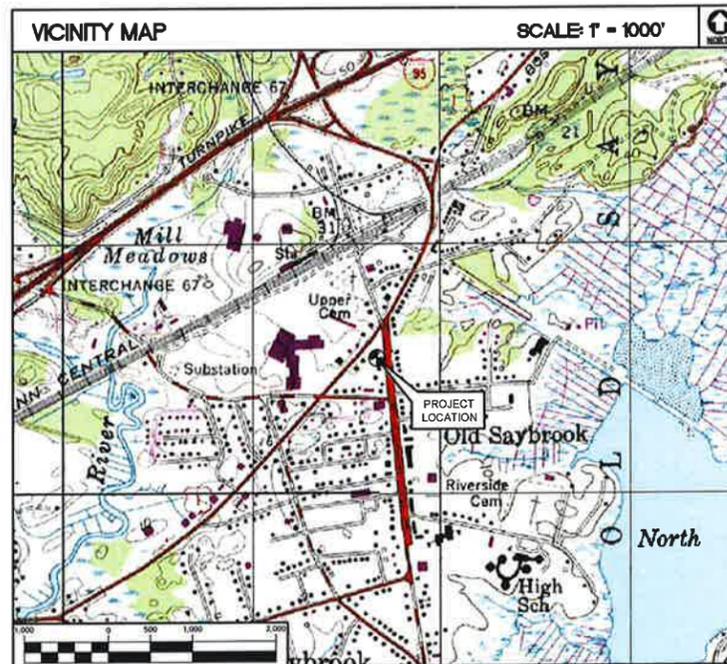
WIRELESS COMMUNICATIONS FACILITY

OLD SAYBROOK CTR
19 MAIN STREET
OLD SAYBROOK, CT 06475

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: 19 MAIN ST. OLD SAYBROOK, CONNECTICUT
1. Head southwest on E River Dr. toward Pitnik St.	0.9 mi
2. continue onto E river Dr. Extension	0.3 mi
3. turn right onto the u.s 5 S/connecticut 15 S ramp to New Haven/Interstate 91 S	0.2 mi
4. merge onto US-5 S	0.8 mi
5. Take exit 86 to merge on I-91 S toward New Haven/New York City	8.9 mi
6. Take exit 22S on the left to merge onto CT-9 S toward middletown/old Saybrook	28.0 mi
7. Take exit 2 for CT-154/Middlesex Turnpike toward Old Saybrook	0.3 mi
8. Turn right onto CT-154 S/middlesex Turnpike	1.9 mi
9. Turn left onto Main St., your destination should be on the right	335 ft

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

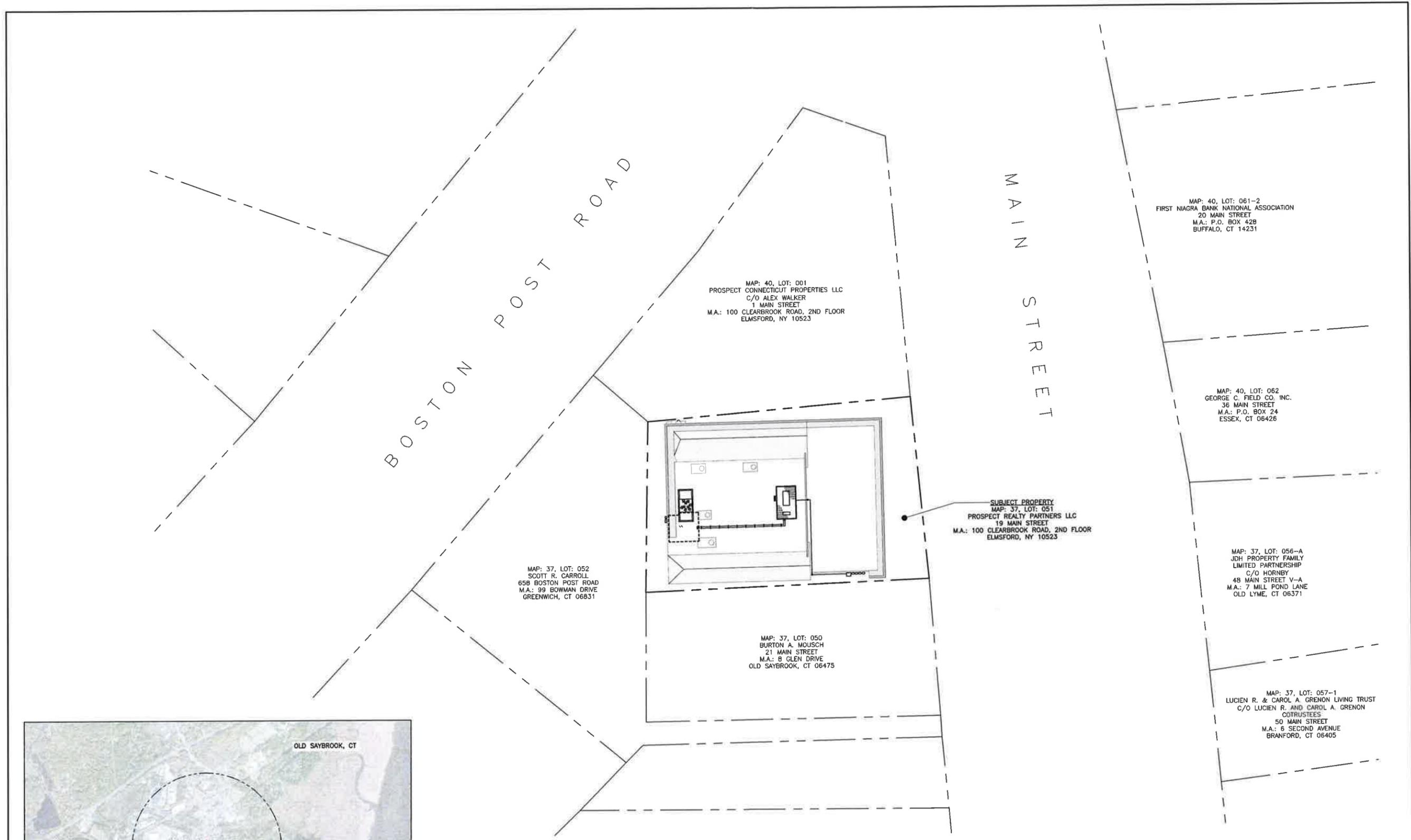
PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A TOTAL OF (6) ANTENNAS, (6) REMOTE RADIO HEADS, ASSOCIATED CABLES AND APPURTENANCES MOUNTED WITHIN PROPOSED FAUX CHIMNEY ANTENNA CONCEALMENT ENCLOSURE. A PROPOSED STEEL PLATFORM WILL SUPPORT A PROPOSED BACKUP POWER GENERATOR AND CONDENSING UNIT.
2. PROPOSED EQUIPMENT ROOM WILL BE LOCATED ON FIRST FLOOR OF SUBJECT BUILDING.
3. POWER, TELCO AND GAS UTILITIES DEPICTED HEREIN ARE TENTATIVE. FINAL ROUTING TO BE DETERMINED DURING THE CONSTRUCTION DOCUMENT PHASE OF PROJECT.
4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.



PROJECT SUMMARY	
SITE NAME:	OLD SAYBROOK CTR
SITE ADDRESS:	19 MAIN STREET OLD SAYBROOK, CONNECTICUT 06475
CELLCO PARTNERSHIP/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	JIM SMITH CELLCO PARTNERSHIP (860) 808-0028
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE LLP (860) 275-8345
SITE COORDINATES:	LATITUDE: 41°-17'-47.007" N LONGITUDE: 72°-22'-38.552" W GROUND ELEVATION: ±19.3' A.M.S.L.
	COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 1-A CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY THE LRC GROUP, DATED DECEMBER 12, 2014 REVISED AUGUST 25, 2015.

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

PROFESSIONAL ENGINEER SEAL	ISSUED FOR CSC	CFC	DMD	DMD	DMD	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
	1	03/24/16	DMD	BLR	DMD	03/02/16			CLIENT REVIEW
	0								
(203) 488-0580 (203) 488-8387 Fax 63 2 North Branford Road Branford, CT 06405 www.CentekEng.com									
Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY OLD SAYBROOK CTR 19 MAIN STREET OLD SAYBROOK, CT 06475									
DATE: 2/25/16									
SCALE: AS NOTED									
JOB NO. 16011.000									
TITLE SHEET									
T-1									
Sheet No. 1 of 3									



MAP: 40, LOT: 001
 PROSPECT CONNECTICUT PROPERTIES LLC
 C/O ALEX WALKER
 1 MAIN STREET
 M.A.: 100 CLEARBROOK ROAD, 2ND FLOOR
 ELMSFORD, NY 10523

SUBJECT PROPERTY
 MAP: 37, LOT: 051
 PROSPECT REALTY PARTNERS LLC
 19 MAIN STREET
 M.A.: 100 CLEARBROOK ROAD, 2ND FLOOR
 ELMSFORD, NY 10523

MAP: 37, LOT: 052
 SCOTT R. CARROLL
 658 BOSTON POST ROAD
 M.A.: 99 BOWMAN DRIVE
 GREENWICH, CT 06831

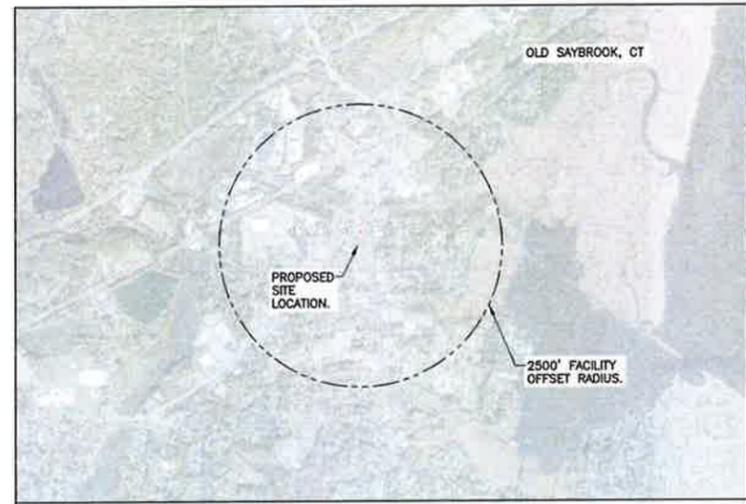
MAP: 37, LOT: 050
 BURTON A. MOUSCH
 21 MAIN STREET
 M.A.: 8 GLEN DRIVE
 OLD SAYBROOK, CT 06475

MAP: 40, LOT: 061-2
 FIRST NIAGRA BANK NATIONAL ASSOCIATION
 20 MAIN STREET
 M.A.: P.O. BOX 428
 BUFFALO, CT 14231

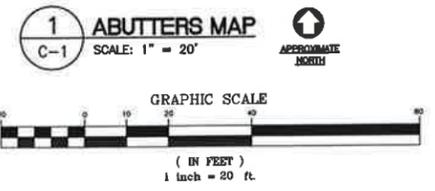
MAP: 40, LOT: 062
 GEORGE C. FIELD CO, INC.
 36 MAIN STREET
 M.A.: P.O. BOX 24
 ESSEX, CT 06426

MAP: 37, LOT: 056-A
 JDH PROPERTY FAMILY
 LIMITED PARTNERSHIP
 C/O HORNBY
 48 MAIN STREET V-A
 M.A.: 7 MILL POND LANE
 OLD LYME, CT 06371

MAP: 37, LOT: 057-1
 LUCIEN R. & CAROL A. GRENON LIVING TRUST
 C/O LUCIEN R. AND CAROL A. GRENON
 CO-TRUSTEES
 50 MAIN STREET
 M.A.: 6 SECOND AVENUE
 BRANFORD, CT 06405



MUNICIPALITY NOTIFICATION LIMIT MAP



MAP REFERENCE NOTE:
 PROPERTY LINES AND PROPERTY OWNER INFORMATION SHOWN HEREIN ARE REFERENCED FROM TOWN OF OLD SAYBROOK CT ON-LINE GIS MAPPING AND DATABASE.

PROFESSIONAL ENGINEER SEAL		ISSUED FOR CSC	ISSUED FOR CSC - CLIENT REVIEW
DATE	REV.	DATE	DESCRIPTION
03/28/16	1	03/28/16	ISSUED FOR CSC
03/27/16	0	03/27/16	ISSUED FOR CSC - CLIENT REVIEW
 Cellco Partnership d.b.a. Verizon Wireless		 CENTEK engineering (203) 488-0360 (203) 488-8397 Fax 652 North Branford Road Branford, CT 06405 www.CenterEng.com	
Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY OLD SAYBROOK CTR 19 MAIN STREET OLD SAYBROOK, CT 06475		DATE: 2/25/16 SCALE: AS NOTED JOB NO. 16011.000 ABUTTERS MAP C-1 Sheet No. 2 of 3	

PROPOSED CELCO PARTNERSHIP ELECTRICAL METER ADJACENT EXISTING METERBANK.

PROPOSED CELCO PARTNERSHIP ELECTRICAL SERVICE CONDUIT ROUTED ABOVE FINISHED CEILINGS TO EQUIPMENT ROOM.

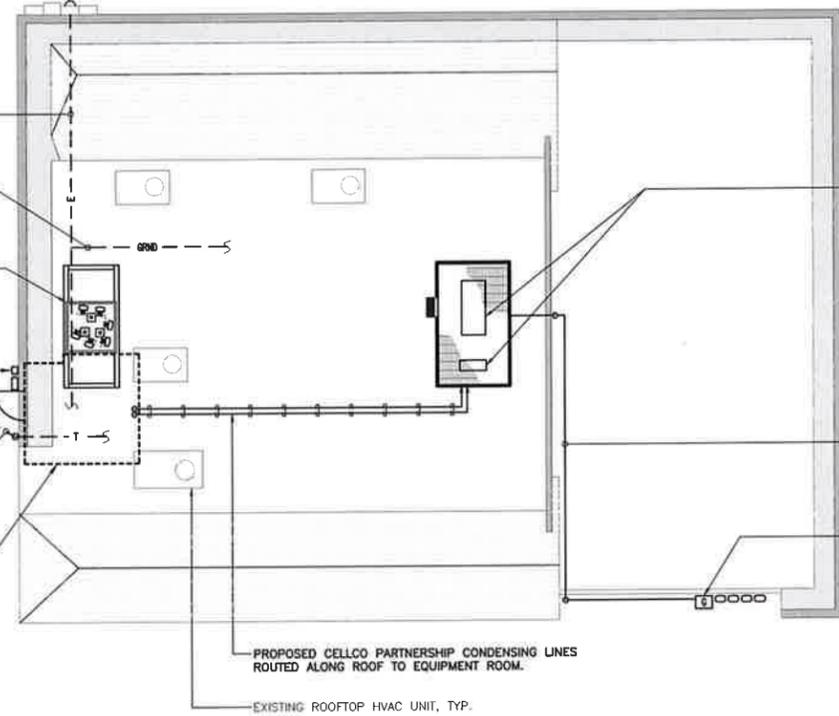
PROPOSED CELCO PARTNERSHIP GROUND CONDUIT ROUTED ABOVE FINISHED CEILINGS TO WATERMAIN.

PROPOSED CELCO PARTNERSHIP FAUX CHIMNEY ANTENNA CONCEALMENT ENCLOSURE, TYP.

PROPOSED CELCO PARTNERSHIP AUXILIARY GENERATOR POWER CONNECTOR AND ASSOCIATED DISCONNECT MOUNTED TO EXTERIOR OF SUBJECT BUILDING.

PROPOSED CELCO PARTNERSHIP FIBER TELCO LINE ROUTED OVERHEAD FROM EXISTING UTILITY POLE TO WEATHERHEAD THEN INTO EQUIPMENT ROOM.

APPROXIMATE LOCATION OF PROPOSED CELCO PARTNERSHIP ±12'±13' EQUIPMENT ROOM LOCATED ON FIRST FLOOR OF SUBJECT BUILDING.



PROPOSED CELCO PARTNERSHIP 25kW BACKUP POWER GENERATOR AND CONDENSING UNIT ON 8'X14'± STEEL SUPPORT FRAME (AND ASSOCIATED PLATFORM RAILING) ON EXISTING BUILDING ROOF.



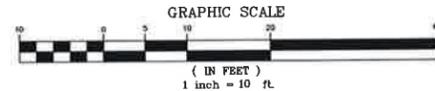
PROPOSED CELCO PARTNERSHIP NATURAL GAS LINE ROUTED ALONG ROOF TO GENERATOR LOCATION.

PROPOSED CELCO PARTNERSHIP NATURAL GAS METER MOUNTED ADJACENT TO EXISTING GAS METERBANK.

PROPOSED CELCO PARTNERSHIP CONDENSING LINES ROUTED ALONG ROOF TO EQUIPMENT ROOM.

EXISTING ROOFTOP HVAC UNIT, TYP.

1 PARTIAL SITE PLAN
SCALE: 1" = 10'



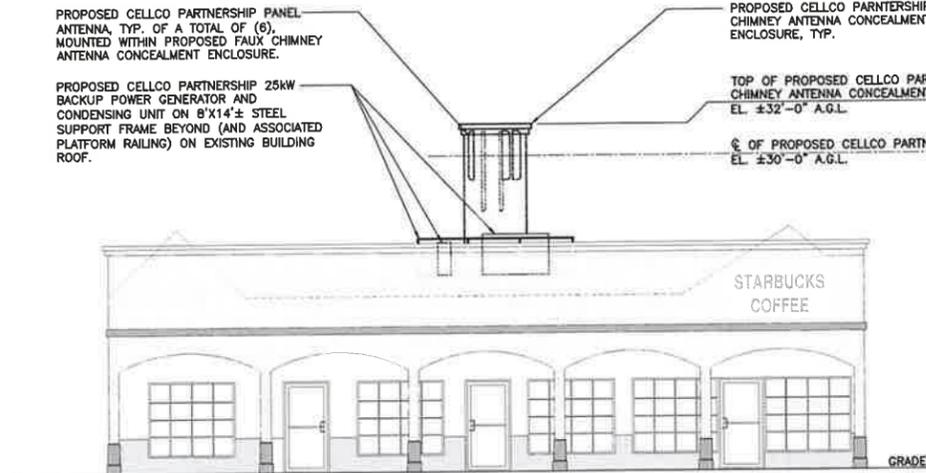
PROPOSED CELCO PARTNERSHIP PANEL ANTENNA, TYP. OF A TOTAL OF (6), MOUNTED WITHIN PROPOSED FAUX CHIMNEY ANTENNA CONCEALMENT ENCLOSURE.

PROPOSED CELCO PARTNERSHIP 25kW BACKUP POWER GENERATOR AND CONDENSING UNIT ON 8'X14'± STEEL SUPPORT FRAME BEYOND (AND ASSOCIATED PLATFORM RAILING) ON EXISTING BUILDING ROOF.

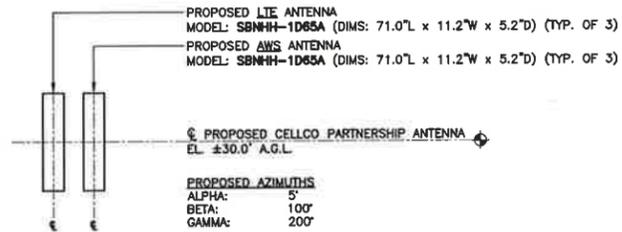
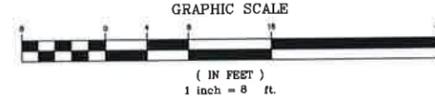
PROPOSED CELCO PARTNERSHIP FAUX CHIMNEY ANTENNA CONCEALMENT ENCLOSURE, TYP.

TOP OF PROPOSED CELCO PARTNERSHIP FAUX CHIMNEY ANTENNA CONCEALMENT ENCLOSURE
EL. ±32'-0" A.G.L.

℄ OF PROPOSED CELCO PARTNERSHIP ANTENNAS
EL. ±30'-0" A.G.L.



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



PROPOSED AZIMUTHS
ALPHA: 5°
BETA: 100°
GAMMA: 200°

RRH/DISTRIBUTION BOX MOUNTING NOTE

- AWS RRH MODEL: ALU RRH2x80-AWS (DIMS: 36.7"L x 10.6"W x 5.8"D) (TYP. OF 3)
- LTE RRH MODEL: ALU RRH2x80-700U (DIMS: 21.0"L x 12.0"W x 8.0"D) (TYP. OF 3)

ANTENNA AND RRH MOUNTED WITHIN PROPOSED FAUX CHIMNEY ANTENNA CONCEALMENT ATOP SUBJECT BUILDING.

3 TYP. ANTENNA MOUNTING CONFIGURATION
NOT TO SCALE

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	03/25/16	DMD	DMD	ISSUED FOR CSC
0	03/02/16	BAR	DMD	ISSUED FOR CSC - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENTEK engineering
Centek on Solutions
(203) 488-0580
(203) 488-0587 Fax
55-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
OLD SAYBROOK CTR
19 MAIN STREET
OLD SAYBROOK, CT 06475

DATE: 2/25/16
SCALE: AS NOTED
JOB NO. 16011.000
PARTIAL SITE PLAN
ELEVATION &
ANTENNA CONFIG.

C-2
Sheet No. 3 of 3

ATTACHMENT 2

STANDBY POWER RATING

25 kW, 31 kVA, 60 Hz

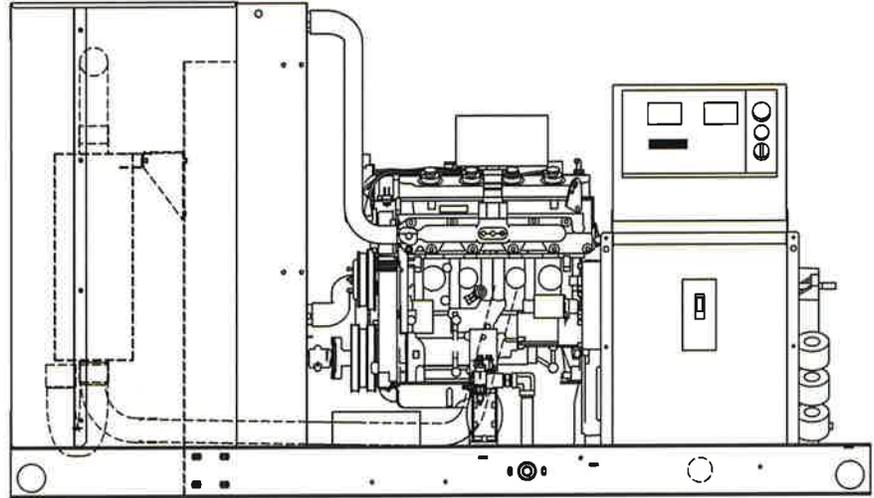
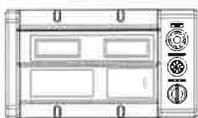
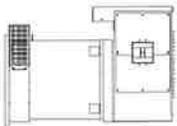
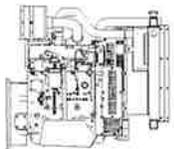
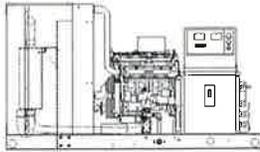


Image used for illustration purposes only



Features

Benefits

Generator Set

- PROTOTYPE & TORSIONALLY TESTED
- UL2200 TESTED
- RHINOCOAT PAINT SYSTEM

- ▶ PROVIDES A PROVEN UNIT
- ▶ ENSURES A QUALITY PRODUCT
- ▶ IMPROVES RESISTANCE TO ELEMENTS

Engine

- EPA COMPLIANT
- INDUSTRIAL TESTED, GENERAC APPROVED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE

- ▶ ENVIRONMENTALLY FRIENDLY
- ▶ ENSURES INDUSTRIAL STANDARDS
- ▶ ENGINEERED FOR PERFORMANCE
- ▶ IMPROVES LONGEVITY AND RELIABILITY

Alternator

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL

- ▶ ELIMINATES HARMFUL 3RD HARMONIC
- ▶ IMPROVES COOLING
- ▶ HEAT TOLERANT DESIGN
- ▶ FAST AND ACCURATE RESPONSE

Controls

- ENCAPSULATED BOARD W/ SEALED HARNESS
- 4-20mA VOLTAGE-TO-CURRENT SENSORS
- SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS

- ▶ EASY, AFFORDABLE REPLACEMENT
- ▶ NOISE RESISTANT 24/7 MONITORING
- ▶ PROVIDES VIBRATION RESISTANCE
- ▶ HARDENED RELIABILITY

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Lubrication System	
Make	Generac	Oil Pump Type	Gear
EPA Emissions Compliance	Stationary Emergency	Oil Filter Type	Full-Flow sping-on Cartridge
EPA Emissions Engine Reference	See Emissions Data Sheet	Crankcase Capacity - L (qts)	3.8 (4)
Cylinder #	4	Cooling System	
Type	In-line	Cooling System Type	Pressurized Closed
Displacement - L (cu in)	2.4	Water Pump Flow -gal/min	11
Bore - mm (in)	86.61 (3.41)	Fan Type	Pusher
Stroke - mm (in)	100.08 (3.94)	Fan Speed (rpm)	2150
Compression Ratio	9.5:1	Fan Diameter mm (in)	457 (18)
Intake Air Method	Naturally Aspirated	Coolant Heater Wattage	1500
Number of Main Bearings	5	Coolant Heater Standard Voltage	120 VAC
Connecting Rods	Forged	Fuel System	
Cylinder Head	Aluminum	Fuel Type	Natural Gas, Propane Vapor
Cylinder Liners	No	Carburetor	Down Draft
Ignition	High Energy	Secondary Fuel Regulator	Standard
Piston Type	Aluminum Alloy	Fuel Shut Off Solenoid	Standard
Crankshaft Type	Cast	Operating Fuel Pressure (Standard)	5" - 14" H ₂ O*
Lifter Type	Overhead Cam	Engine Electrical System	
Intake Valve Material	Steel Alloy	System Voltage	12 VDC
Exhaust Valve Material	Hardened Steel	Battery Charging Alternator (Amps)	30
Hardened Valve Seats	yes	Battery Size	See Battery Index 0161970SBY
		Battery Voltage	12 VDC
		Ground Polarity	Negative

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	+/- 0.25%

*Fuel pressure must remain within specified range and not drop more than 1 in. w.c from static (no-load) to full load.

ALTERNATOR SPECIFICATIONS

Standard Model	390mm	Standard Excitation	Brush Type
Poles	4	Bearings	Sealed Ball
Field Type	Revolving	Coupling	Flexible Disc
Insulation Class - Rotor	H	Load Capacity - Standby	100%
Insulation Class - Stator	H	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5%	Voltage Regulator Type	Full Digital
Telephone Interference Factor (TIF)	<50	Number of Sensed Phases	3
		Regulation Accuracy (Steady State)	±0.25%

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99	BS5514
NFPA 110	SAE J1349
ISO 8528-5	DIN6271
ISO 1708A.5	IEEE C62.41 TESTING
ISO 3046	NEMA ICS 1
	UL2200

Rating Definitions:

Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)

QT025A | 2.4L | 25 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
 EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Natural Gas	Propane Vapor
Single-Phase 120/240 VAC @1.0pf	25 kW	Amps: 104	Amps: 104
Three-Phase 120/208 VAC @0.8pf	25 kW	Amps: 87	Amps: 87
Three-Phase 120/240 VAC @0.8pf	25 kW	Amps: 75	Amps: 75
Three-Phase 277/480 VAC @0.8pf	25 kW	Amps: 38	Amps: 38

STARTING CAPABILITIES (sKVA)

		sKVA vs. Voltage Dip											
		480 VAC						208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	25	16	25	33	41	49	57	12	19	25	31	37	43

FUEL CONSUMPTION RATES*

Natural Gas				Propane Vapor			
Percent Load	ft ³ /hr	m ³ /hr		Percent Load	ft ³ /hr	m ³ /hr	
25%	140	3.9		25%	56	1.6	
50%	220	6.2		50%	87	2.5	
75%	300	8.5		75%	119	3.4	
100%	380	10.8		100%	151	4.3	

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft ³ /min(m ³ /min)	1500 (42.48)
System Coolant Capacity	gal (Liters)	2.5 (9.46)
Heat Rejection to Coolant	BTU/hr	95,000
Max. Operating Ambient Temperature	°F (°C)	122 (50)
Max. Ambient Temperature	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m ³ /min)	70

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	40
Piston Speed	ft/min	1182
BMEP	psi	120

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m ³ /min)	220 (6.2)
Max. Backpressure (Post Turbo)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output - post silencer)	°F (°C)	975 (524)
Exhaust Outlet Size (Open Set)	mm (in)	63.5 (2.5)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

STANDARD FEATURES AND OPTIONS

GENERATOR SET

- Genset Vibration Isolation Std
- Extended warranty Opt
- Gen-Link™ Communications Software Opt
- Steel Enclosure Opt
- Aluminum Enclosure Opt

ENGINE SYSTEM

General

- Oil Drain Extension Std
- Critical Exhaust Silencer Std
- Air cleaner Std
- Fan guard Std
- Radiator duct adapter Std

Fuel System

- Fuel lockoff solenoid Std
- Secondary Fuel Regulator Std
- Flexible fuel lines Std

Cooling System

- 120VAC Coolant Heater Std
- Closed Coolant Recovery System Std
- UV/Ozone resistant hoses Std
- Factory-Installed Radiator Std
- Radiator Drain Extension Std

Engine Electrical System

- Battery charging alternator Std
- Battery cables Std
- Battery tray Std
- Solenoid activated starter motor Std
- 10A UL float/equalize battery charger Std
- Rubber-booted engine electrical connections Std

ALTERNATOR SYSTEM

- UL2200 GENprotect™ Std
- Main Line Circuit Breaker Std

CONTROL SYSTEM

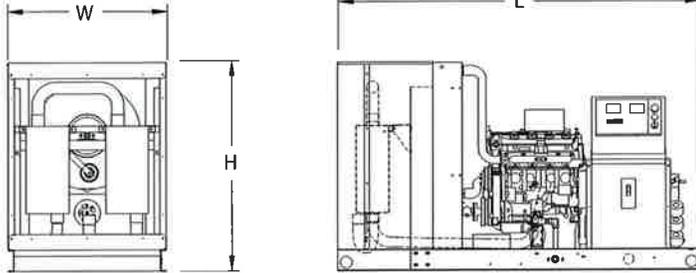
Control Panel

- Digital H Control Panel - Dual 4x20 Display Std
- Programmable Crank Limiter Std
- 21-Light Remote Annunciator Opt
- Remote Relay Panel (8 or 16) Opt
- 7-Day Programmable Exerciser Std
- Special Applications Programmable PLC Std
- RS-232 Communications Std
- RS-485 Communications Std
- All-Phase Sensing DVR Std
- Full System Status Std
- Utility Monitoring (Req. H-Transfer Switch) Std
- 2-Wire Start Compatible Std
- Power Output (kW) Std
- Power Factor Std
- Reactive Power Std
- All phase AC Voltage Std
- All phase Currents Std
- Oil Pressure Std
- Coolant Temperature Std
- Coolant Level Std
- Fuel Pressure Std
- Engine Speed Std
- Battery Voltage Std
- Frequency Std
- Isochronous Governor Control Std
- -40deg C - 70deg C Operation Std
- Waterproof Plug-In Connectors Std
- Audible Alarms and Shutdowns Std
- Not in Auto (Flashing Light) Std
- Auto/Off/Manual Switch Std
- E-Stop (Red Mushroom-Type) Std
- NFPA 110 Level I and II (Programmable) Std
- Remote Communication - RS232 Std

Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

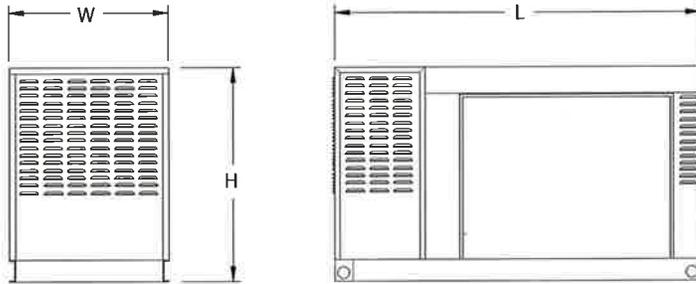
- Low Fuel Pressure Std
- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdown) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage Shutdown) Std
- Battery Voltage Std

DIMENSIONS AND WEIGHTS*



OPEN SET (Includes Exhaust Flex)

L x W x H in (mm)	77 (1956) x 34 (864) x 43 (1092)
Weight (lbs)	1163
dBA*	83



LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H in (mm)	77 (1956) x 34 (864) x 46 (1168)
Weight (lbs)	1414
dBA*	60

*All measurements are approximate and for estimation purposes only. Sound levels measured at 23ft (7m) under normal operation and do not account for ambient site conditions.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Job Name: _____
 System Reference: _____ Date: _____



Indoor Unit: PCA-A24KA6



Outdoor Unit: PUZ-A24NHA6 (-BS)

NIT OPTION:

- Standard Model.....PUZ-A24NHA6
- Seacoast (BS) Model.....PUZ-A24NHA6-BS

ACCESSORIES:

Indoor Unit

- Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- Condensate Pump (Sauermann SI30-115/230; 115/230V)
- High-Efficiency Filter (PAC-SH89KF-E)
- iSee Sensor (PAC-SH91MK-E)
- Disconnect Switch (TAZ-MS303)

Outdoor Unit

- Wind Baffle (WB-PA2)*
Allows operation to 0° F (-18° C).
- Air Outlet Guide (PAC-SG59SG-E)
- Mounting Base (QSMS1201)
- Wall Bracket (QSWB2000M-1)

Controls

- Wireless Controller (MHK1)
- Advanced Wired Controller (PAR-31MAA)
- Simple Wired Controller (PAC-YT53CRAU)
- M-NET Adapter (PAC-SF83MA-E)
- Temperature Sensor (PAC-SE41TS)

SPECIFICATIONS:

Rated Conditions (Capacity / Input)*		
Cooling	Btu/h / W	24,000 / 2,340
Heating at 47° F	Btu/h / W	26,000 / 2,310
Heating at 17° F	Btu/h / W	18,000 / 2,200

* Rating Conditions per AHRI Standard:
 Cooling | Indoor: 80° F (27° C)DB / 67° F (19° C)WB; Outdoor: 95° F (35° C)DB / 75° F (24° C)WB
 Heating at 47° F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB; Outdoor: 47° F (8° C)DB / 43° F (6° C)WB
 Heating at 17° F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB; Outdoor: 17° F (-8° C)DB / 15° F (-9° C)WB

Capacity Range		
Cooling	Btu/h	12,000 - 24,000
Heating at 47° F	Btu/h	12,000 - 28,000

Operating Range	
Cooling	0° F** to 115° F (-18° C to 46° C) DB
Heating	12° F to 70° F (-11° C to 21° C) DB

** The minimum temperature will be 23° F (-5° C) DB if optional wind baffle accessory is not installed.

AHRI Efficiency Ratings	
EER	10.3
SEER	16.8
HSPF	10.9
COP at 47° F	3.3
COP at 17° F	2.38

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 18

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.54
Blower Motor Output	W	95
SHF / Moisture Removal		0.73 / 5.8 pt./h

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.75
MOCP	A	30

Airflow Rate (Low-M1-M2-Hi)			
Indoor (Cooling)	DRY	CFM	530-565-600-670
	WET		495-530-565-635
Outdoor	DRY		1,940

Sound Pressure Level			
Indoor (Low-M1-M2-Hi)		dB(A)	33-35-37-40
Outdoor	Cooling		48
	Heating		50

External Dimensions		
Indoor (H x W x D)	In.(mm)	9-1/16 x 50-3/8 x 26-3/4 (230 x 1,280 x 680)
Outdoor (H x W x D)		37-1/8 x 37-3/8 x 13 + 1-3/16 (943 x 950 x 330 + 30)

External Finish	
Indoor	Munsell No. 6.4Y 8.9/0.4
Outdoor	Munsell No. 3Y 7.8 / 1.1

Net Weight		
Indoor	Lbs.(kg)	71 (32)
Outdoor		165 (75)

Refrigerant	R410A ; 6lbs., 10oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	3/8 (9.52)
Gas (Low Pressure)		5/8 (15.88)
Maximum Total Refrigerant Pipe Length	Ft. (m)	165 (50)
Maximum Vertical Separation	Ft. (m)	100 (30)

ATTACHMENT 3

March 18, 2016

Mr. Mike Humphreys
Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Re: Structural Evaluation Letter
Verizon Wireless Site Ref – Old Saybrook CTR
19 Main Street
Old Saybrook, CT 06475

CEN TEK Project No. 16011.000

Dear Mr. Humphreys,

Centek Engineering, Inc. has prepared signed and sealed Construction Documents dated 02/25/2016 (Rev. 2) for the proposed unmanned wireless communications facility to be located at the existing one story (± 17 ft.) host building. The proposed wireless equipment facility consists of a 13 ft. by 13 ft. interior equipment room located on the first floor of the existing building, an emergency standby power generator and condensing unit supported by a steel dunnage frame on the roof of the host building and a 6 ft. square by 13 ft. tall antenna enclosure mounted on a steel frame at the roof level.

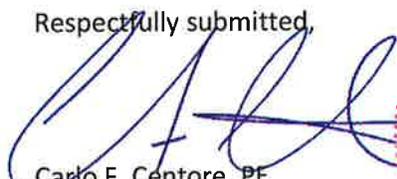
A structural analysis of the host building components and design of the proposed equipment installation was conducted in accordance with the 2003 International Building Code (IBC); 2005 Connecticut State Building Code as amended by the 2009 Connecticut State Supplement and ASCE 7-02 "Minimum Design Loads for Buildings and other Structures".

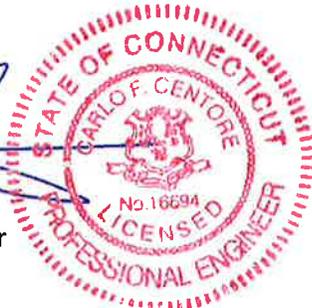
Additionally, design loads and reactions for the proposed antenna enclosure were calculated utilizing the 2005 Connecticut State Building Code considering a basic wind speed (3 sec gust) of 115 mph for Old Saybrook, as required in Appendix K of the Connecticut supplement per Table 1609.3.1.

The building construction consists of a steel framed structure with CMU bearing walls. Existing building drawings were not available thereby requiring fieldwork by Centek personnel (01/13/2016 & 01/15/2016) for the purpose of documenting host building components impacted by Verizon's installation. Our analysis found the existing steel roof girders and CMU bearing walls structurally sufficient to accommodate the proposed loading from the antenna enclosure and generator dunnage frames along with all existing dead and live loads.

The findings of our structural analysis concluded that the proposed Verizon Wireless facility will not adversely affect the host building. Feel free to contact us should further documentation be necessary.

Respectfully submitted,


Carlo F. Centore, PE
Principal ~ Structural Engineer



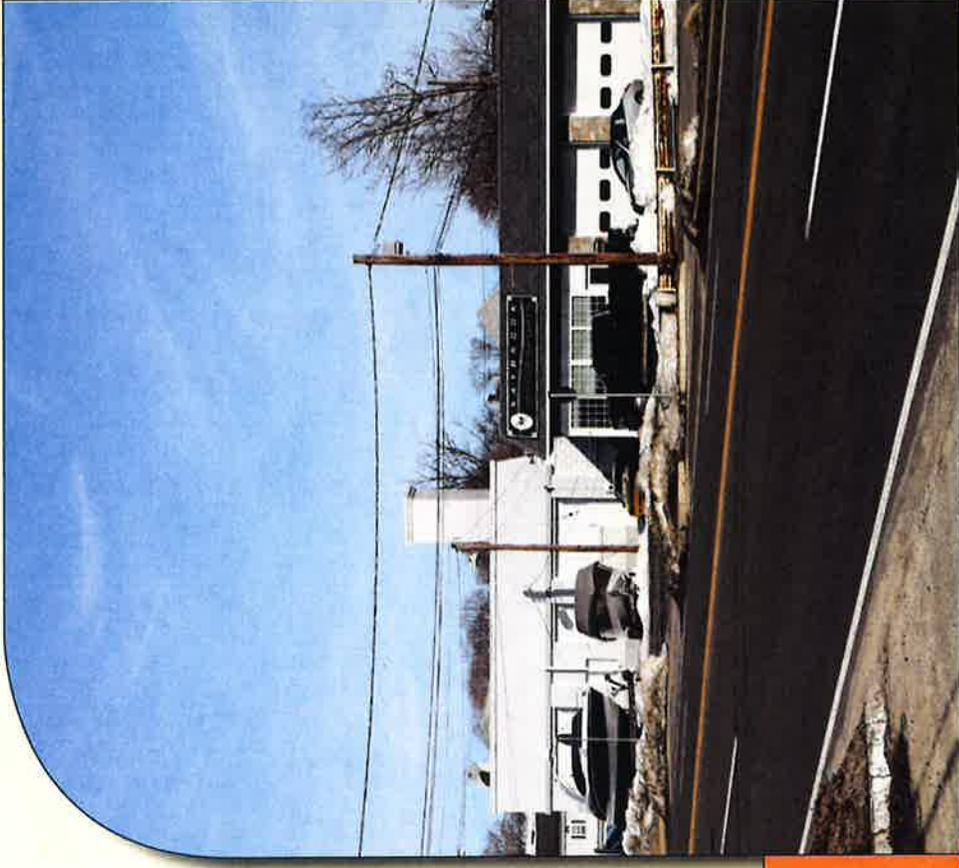
Prepared by:


Timothy J. Lynn, PE
Structural Engineer

ATTACHMENT 4

Visual Assessment and Photo-Simulations

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



Prepared in March 2016 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless



VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a 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 faux chimney on the building's roof, such that these appurtenances would not be visible from the outside. The faux chimney would extend approximately 12 feet above the roof line (which includes a parapet wall) and has been designed to match the existing building architecture and colors. An emergency backup generator and condensing units would also be installed on the roof, supported by an 8-foot by 14-foot steel platform and surrounded by a steel railing, behind the parapet wall. 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

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

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.

Conclusions

The visibility of the proposed installation would be limited to views of the faux chimney primarily from nearby locations along Boston Post Road and points north and west of the Property. To a lesser extent, views of the faux chimney would also be achieved from Main Street north of the Property. The antennas' concealment within a faux chimney results in no antenna or supporting equipment being visible from exterior locations. The faux chimney 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 generator and condensing units will be placed behind the roof's parapet wall and will not be visible from surrounding locations. The ground equipment will be located within the building. 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.

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.

ATTACHMENTS

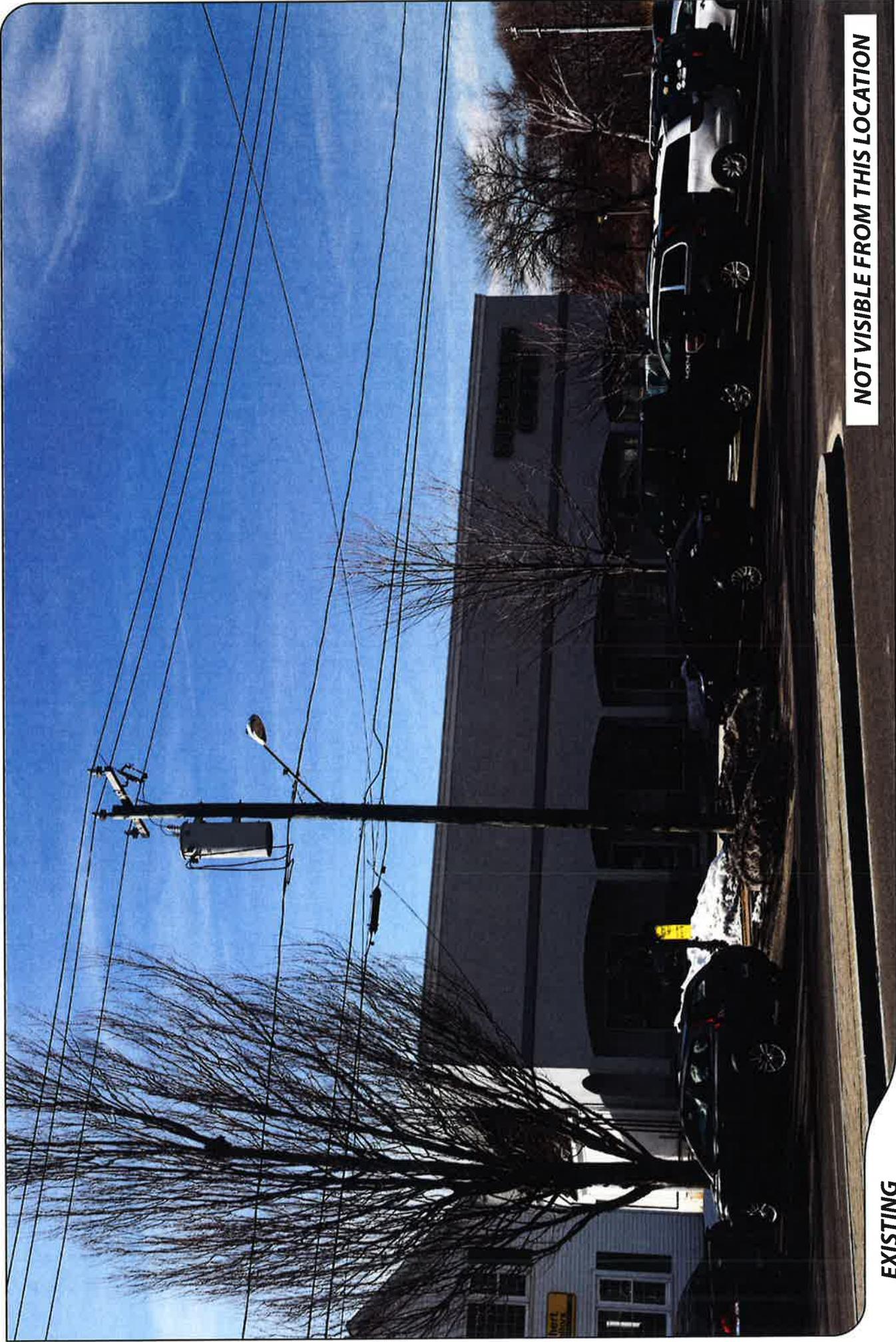


PHOTO LOG

Legend

- Site
- Photo Location





NOT VISIBLE FROM THIS LOCATION

EXISTING

PHOTO

1

LOCATION

MAIN STREET

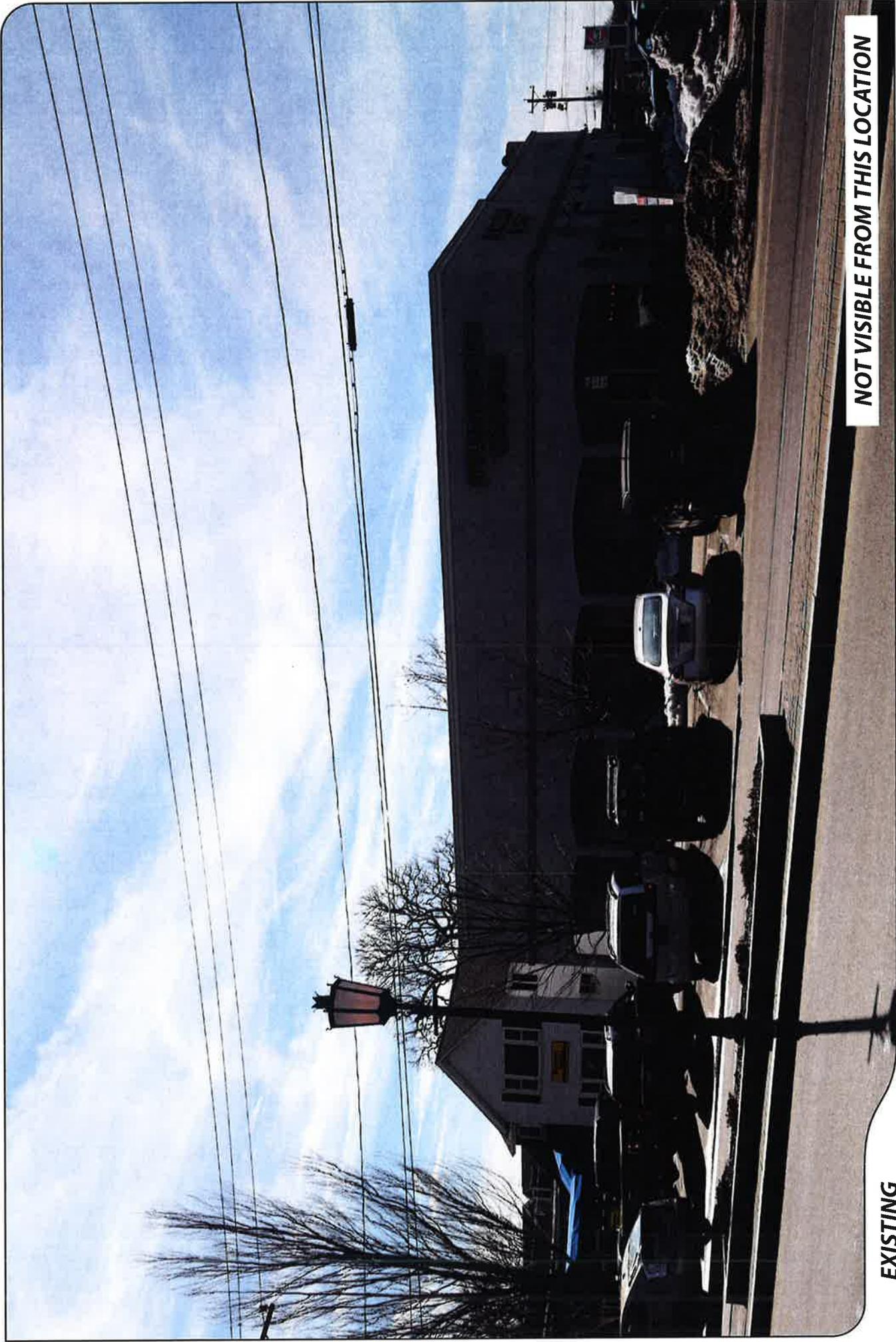
ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 217 FEET





EXISTING

PHOTO

2

LOCATION

MAIN STREET

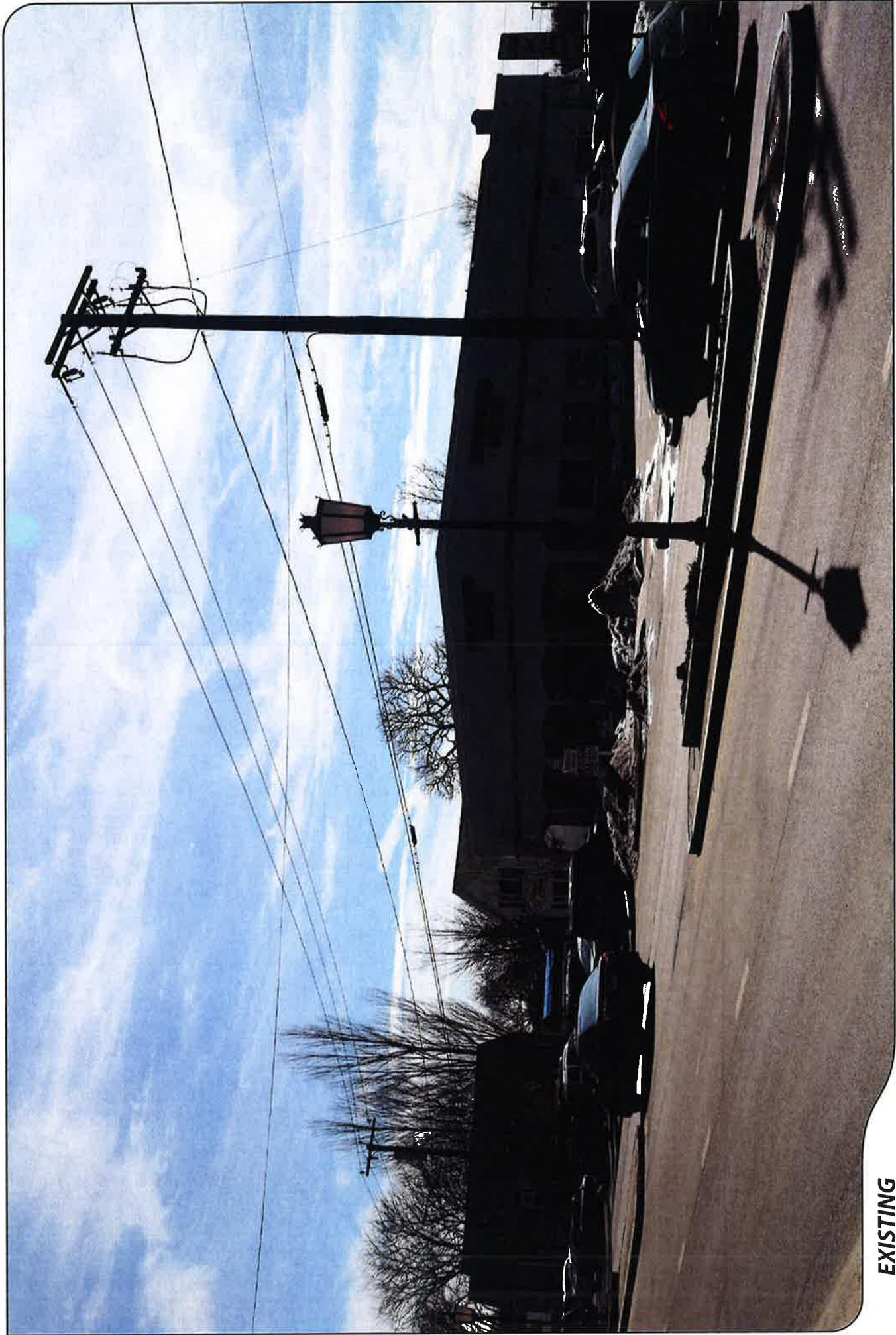
ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 165 FEET

NOT VISIBLE FROM THIS LOCATION



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



EXISTING

PHOTO

4

LOCATION

BOSTON POST ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 227 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

4

LOCATION

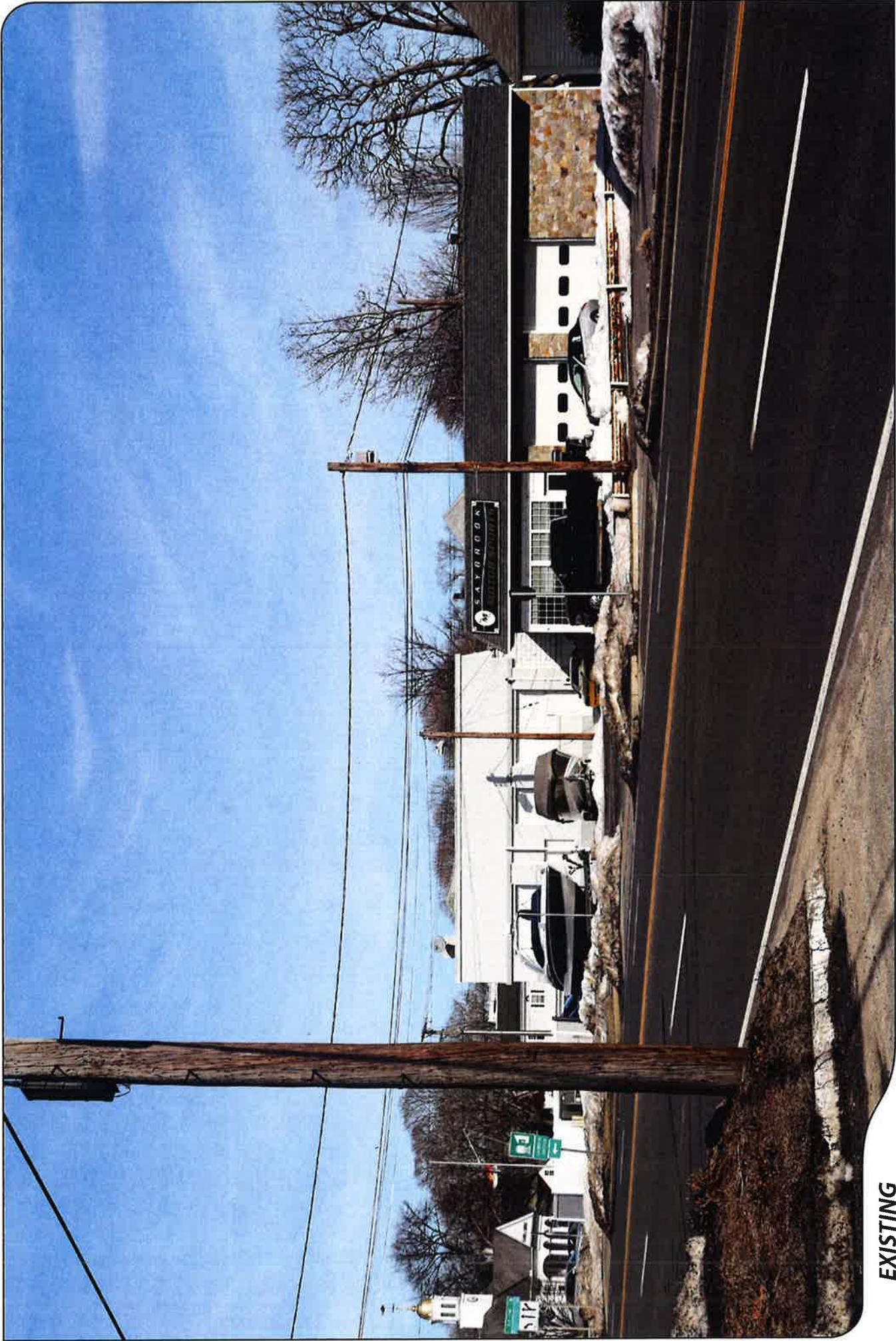
BOSTON POST ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 227 FEET



EXISTING

PHOTO

5

LOCATION

BOSTON POST ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 268 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

5

LOCATION

BOSTON POST ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 268 FEET

ATTACHMENT 5

Noise Evaluation Report

Verizon Communications Facility
Old Saybrook Ctr.
19 Main Street
Old Saybrook, CT

March 30, 2016

Prepared For:
Doug Drost
Project Engineer, Wireless
Centek Engineering Inc.
63-2 North Branford Road
Branford, CT

Prepared By:
Allan Sardin
HMB Acoustics LLC
3 Cherry Tree Lane
Avon, CT

Introduction

Verizon Wireless has proposed a 25 kw natural gas fueled emergency generator that will be located on the roof of 19 Main Street, Old Saybrook, CT. The proposed generator will be housed in a Level 1 Acoustic Enclosure. In addition, a single Mitsubishi condensing unit will be located near the generator. Both units will be on a steel platform. The surrounding area is Commercial (Business) in nature.

It is important to note that the emergency generator operates for approximately 15-20 minutes each week for testing. All testing is done during the daytime hours. Other than these testing periods, the generator runs only in times of emergency, when commercial power to the facility is interrupted.

This report and the Town of Old Saybrook utilize a dBA scale. This scale is used because it closely approximates the response characteristic of the human ear to loudness, and is the scale most commonly used in the measurement of community noise.

Noise Regulations

The Town of Old Saybrook has enacted regulations which limit the amount of noise which may be transferred from one property to another. In pertinent part, the Regulations provide as follows:

- The noise level from a Commercial Noise Zone Emitter shall not exceed 62 dBA (day / night) when measured at a Commercial Noise Zone Receptor's property line.

Noise Evaluation Results

The noise level from the proposed generator and condensing unit operating simultaneously and projected to the nearest Commercial Receptor's property line:

North = 47 dBA

South = 48 dBA

East = 44 dBA

West = 43 dBA

The dBA scale takes into account the effect of acoustical shielding provided by other structures on the premises. The calculated noise data demonstrates that the noise levels, from the proposed emergency generator and condenser meet the conditions for compliance as set forth in the Old Saybrook Regulations when projected to the nearest Commercial Zone property lines.

ATTACHMENT 6

April 1, 2016

Via Certificate of Mailing

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

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

Dear Mr. Fortuna:

On May 28, 2015, the Connecticut Siting Council (“Council”) approved Petition No. 1155 by Cellco Partnership d/b/a Verizon Wireless (“Cellco”) to establish a “small cell” wireless telecommunications facility at 19 Main Street in Old Saybrook (the “Property”). The approved facility consists of antennas and remote radio heads (“RRHs”) attached to mast structures on the roof of the building. The antennas, RRHs and masts would 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.

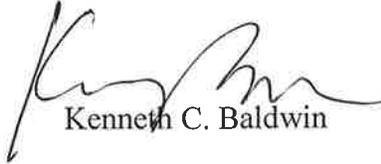
Cellco now seeks to modify the approved facility. The proposed modifications will involve the installation of a 25 kW back-up generator and an air conditioning condenser on a steel platform in the center of the roof of the building. A copy of Cellco’s Petition Modification filing is attached for your review. This same modification filing was also sent to the Owner of the Property and all abutting landowners.

Robinson + Cole

Carl P. Fortuna, Jr.
April 1, 2016
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

April 1, 2016

Via Certificate of Mailing

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

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

Dear Mr. Walker:

On May 28, 2015, the Connecticut Siting Council (“Council”) approved Petition No. 1155 by Cellco Partnership d/b/a Verizon Wireless (“Cellco”) to establish a “small cell” wireless telecommunications facility at 19 Main Street in Old Saybrook (the “Property”). The approved facility consists of antennas and remote radio heads (“RRHs”) attached to mast structures on the roof of the building. The antennas, RRHs and masts would 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.

Cellco now seeks to modify the approved facility. The proposed modifications will involve the installation of a 25 kW back-up generator and an air conditioning condenser on a steel platform in the center of the roof of the building. A copy of Cellco’s Petition Modification filing is attached for your review. This same modification filing was also sent to Old Saybrook’s First Selectman, Carl Fortuna and all abutting landowners.

14635458-v1

Robinson + Cole

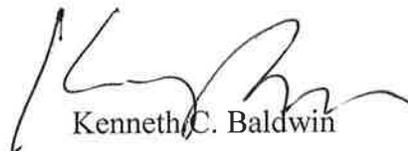
Prospect Realty Partners LLC

April 1, 2016

Page 2

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

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Baldwin', written over the printed name.

Kenneth C. Baldwin

KCB/kmd
Attachment

ATTACHMENT 7

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

April 1, 2016

Via Certificate of Mailing

«Name_and_Address»

Re: Notice of Intent to File a Modification to 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»:

On May 28, 2015, the Connecticut Siting Council (“Council”) approved Petition No. 1155 by Cellco Partnership d/b/a Verizon Wireless (“Cellco”) to establish a “small cell” wireless telecommunications facility at 19 Main Street in Old Saybrook (the “Property”). The approved facility consists of antennas and remote radio heads (“RRHs”) attached to mast structures on the roof of the building. The antennas, RRHs and masts would 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.

Cellco now seeks to modify the approved facility. The proposed modifications will involve the installation of a 25 kW back-up generator and an air conditioning condenser on a steel platform in the center of the roof of the building. A copy of Cellco’s Petition Modification filing 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 Modification filing, the Council’s process for reviewing the Petition Modification 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 1, 2016
Page 2

Sincerely,

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

Kenneth C. Baldwin

Attachment

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 Living Trust Trust c/o Lucien R. and Carol A. Grenon 76185 Poppy Lane Palm Desert, CA 92211
5.	37/056-A	48 Main Street U-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