

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
A PETITION OF CELLCO PARTNERSHIP : PETITION NO. ____
D/B/A VERIZON WIRELESS FOR A :
DECLARATORY RULING ON THE NEED TO :
OBTAIN A SITING COUNCIL CERTIFICATE :
FOR THE MODIFICATION OF AN EXISTING :
TELECOMMUNICATIONS FACILITY AT :
8 CUSTOM DRIVE, OLD SAYBROOK, :
CONNECTICUT : NOVEMBER 14, 2017

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

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) for modifications to the existing wireless telecommunications facility at 8 Custom Drive in Old Saybrook, Connecticut (the “Property”).

II. Factual Background

The Property is a 1.47-acre parcel that straddles the town line between the Towns of Old Saybrook and Westbrook. The Property is owned by The Granite Group, a wholesale distribution of plumbing, heating, cooling and water supplies and is located in Westbrook’s Light Industrial (I-L) zone district and Old Saybrook’s Business (B-4) zone district. The Property is surrounded by other commercial and light industrial uses. (See Attachment 1 – Site Vicinity and

Site Schematic Maps (Aerial Photograph)). Cellco currently maintains and operates a small cell wireless telecommunications facility at the Property consisting of a canister antenna attached to a small roof-top tower and equipment cabinets on the ground, along the north side of the building within a fenced enclosure.

III. Proposed Facility Modifications

Cellco intends to establish a Centralized Radio Access Network (“C-RAN”) at the Property. The purpose of a C-RAN is to allow several existing cell sites in a particular geographic area (traditional macro cell sites and small cells), to connect to a centralized hub. By doing so, Cellco can deploy less cell site hardware at each individual facility location, giving it more flexibility in the selection of new cell site locations. This approach also allows Cellco to realize some cost savings by not having to deploy fiber connections, for example, from each individual cell site location back to the mobile telephone switching office (MTSO). C-RAN facilities can be established at existing cell sites or at other locations not currently used for telecommunications purposes.

Cellco proposes to install its Old Saybrook C-RAN equipment inside a new 17' x 29' equipment shelter that would be located along the westerly side of the building. A new 60 kW diesel-fueled generator would also be located on the ground on the northerly side of The Granite Group building. Project Plans for the C-RAN Facility are included in Attachment 2. Specifications for Cellco’s back-up generator are included in Attachment 3.

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

Celco respectfully submits that the proposed facility modifications described above, necessary to establish the Old Saybrook C-RAN Facility, will not involve a significant alteration to the physical and environmental characteristics of the Property. Minimal ground disturbance is required to make these facility modifications. The C-RAN shelter and generator will be located in an area previously cleared.

2. Visual Effects

The installation of the C-RAN shelter and generator will not have a significant impact on aesthetics in the area. These ground-mounted improvements will be screened by existing vegetation on and around the Property and adjacent light industrial buildings.

3. Noise

The operation of the C-RAN equipment including the new back-up generator will comply with State and local Noise Standards. (See HMB Acoustics LLC Noise Evaluation Report included in Attachment 4).

4. FCC Compliance

The installation of the proposed C-RAN Facility will not result in a change to radio frequency (“RF”) emissions from the existing small cell facility at the Property. A new RF emissions calculation therefore, has not been provided as part of this filing.

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

On November 14, 2017, a copy of this Petition was sent to municipal officials in Old Saybrook and Westbrook including Old Saybrook's First Selectman, Carl P. Fortuna, Jr. and Town Planner, Christine Nelson; Westbrook's First Selectman, Noel Bishop and Town Planner, Meg Parulis. A copy of the Petition was also sent to the owner of the Property, 222 & I LLC. Copies of the letters sent to the municipal officials and the Property owner are included in Attachment 5. A copy of this Petition was also sent to the owners of land that may be considered to abut the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent notice is included in Attachment 6.

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 modification of the existing telecommunications facility at the Property to accommodate the Old Saybrook C-RAN as described above, will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By 

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

ATTACHMENT 1



Legend

- ☒ Proposed Verizon Wireless Small Cell Facility
- ☒ Surrounding Verizon Wireless Facilities
- ☐ Municipal Boundary
- ~~~~ Watercourse
- ~~~~ Waterbody

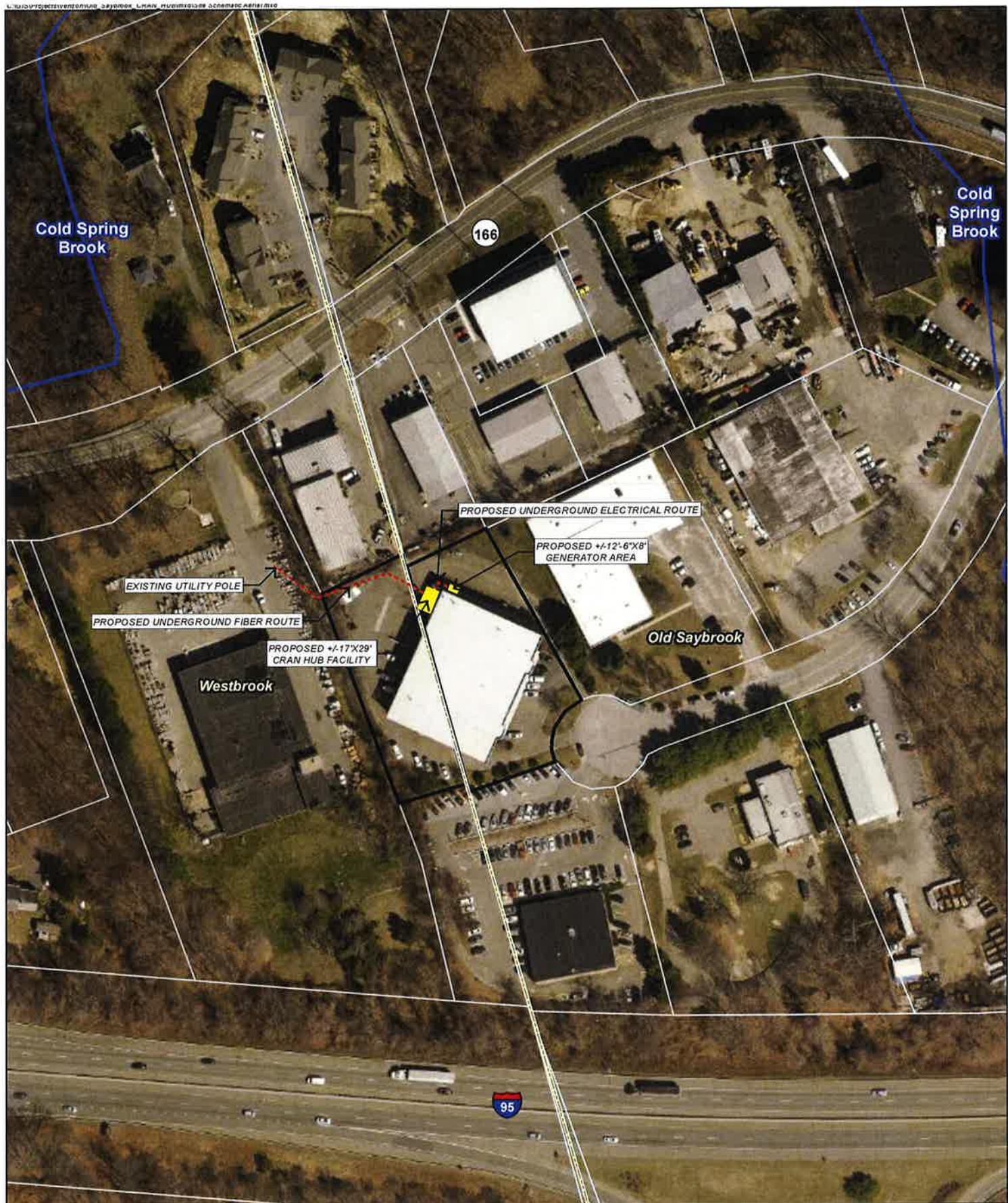
Base Map Source: 2016 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 3,000 feet
 Map Date: June 2017

Site Vicinity Map

Proposed Cran Hub Installation
 Old Saybrook CT CRAN HUB
 8 Custom Drive
 Old Saybrook, Connecticut



3,000 1,500 0 3,000
 Feet



Legend

- Proposed Equipment
- Approximate Subject Property
- Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)
- Municipal Boundary
- Watercourse (CTDEEP)

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

Site Schematic

Proposed Cran Hub Installation
Old Saybrook CT CRAN HUB
8 Custom Drive
Old Saybrook, Connecticut

verizon



150 75 0 150
Feet

ALL-POINTS
TECHNOLOGY CORPORATION

ATTACHMENT 2

verizon[✓]

WIRELESS COMMUNICATIONS FACILITY OLD SAYBROOK CT CRAN HUB 8 CUSTOM DRIVE OLD SAYBROOK, CT 06475

DRAWING INDEX

- T-1 TITLE SHEET**
- C-1 ABUTTERS MAP**
- C-2 PARTIAL SITE PLAN, PROP. EQUIP.
FACILITY PLAN & WEST ELEVATION**

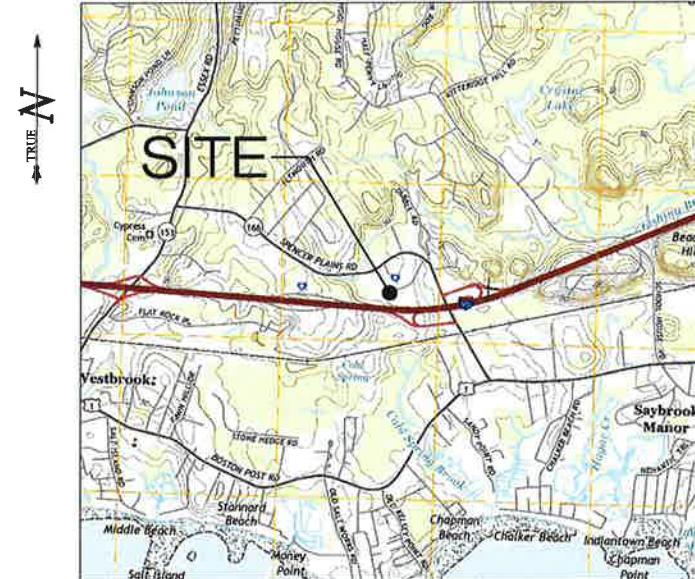
ABBREVIATION LIST:
 AGL = ABOVE GROUND LEVEL;
 AMSL = ABOVE MEAN SEA LEVEL;
 ARL = ABOVE ROOF LEVEL;
 AWS = ADVANCED WIRELESS SERVICE;
 MDB = MAIN DISTRIBUTION BOX;
 OVP = OVER VOLTAGE PROTECTION;
 RRH = REMOTE RADIO HEAD.

SITE DIRECTIONS

START: 99 EAST RIVER DRIVE
EAST HARTFORD, CONNECTICUT 06108

END: 8 CUSTOM DRIVE
OLD SAYBROOK, CT 06475

1. HEAD SOUTHWEST ON E RIVER DRIVE TOWARD PITKIN STREET 0.9 MI
2. CONTINUE ONTO E RIVER DRIVE EXTENSION 0.3 MI
3. TURN RIGHT TO MERGE ONTO CT-15 S TOWARD NEW HAVEN / I-91 S 0.2 MI
4. MERGE ONTO CT-15 S 0.8 MI
5. TAKE EXIT 86 YO MERGE ONTO I-91 S TOWARD NEW HAVEN 8.9 MI
6. TAKE EXIT 22S TO MERGE ONTO CT-9 S TOWARD MIDDLEBURY / OLD SAYBROOK 29.2 MI
7. MERGE ONTO I-95 S TOWARD NEW HAVEN / NEW YORK CITY 3.5 MI
8. TAKE EXIT 66 FOR CT-166 / SPENCER PLAIN ROAD 0.3 MI
9. TURN RIGHT ONTO CT-166 W 0.2 MI
10. TURN LEFT ONTO CUSTOM DRIVE 0.2 MI



LOCATION MAP
SCALE: 1" = 500'-0"

SITE INFORMATION

VZ SITE NAME: OLD SAYBROOK CT CRAN HUB
 VZ LOCATION CODE: 20171648076
 VZ PROJECT CODE: 467407
 LOCATION: 8 CUSTOM DRIVE
OLD SAYBROOK, CT 06475

PROJECT SCOPE: PROPOSED INSTALLATION CONSISTS OF A $(17\pm x 29\pm)$ (493± SF) CRAN HUB EQUIPMENT FACILITY W/ (2) GPS UNITS IN ADDITION TO A DIESEL FUELED EMERGENCY STANDBY POWER GENERATOR W/ SUB-BASE FUEL TANK LOCATED WITHIN AN 8'-0" x 12'-6" (100± SF) FENCED ENCLOSURE AT GRADE.

PARCEL I.D: 046/001-0004 & 164/004

LATITUDE: 41° 17' 31.6379" N (41.2921218° N)

LONGITUDE: 72° 25' 27.8724" W (72.4244090° W)

GROUND ELEVATION: 31.6± AMSL

PROPERTY OWNER: ZZZ & I LLC
P.O. BOX 466
SHELTON, CT 06484

APPLICANT: CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORP., P.C.
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
(860) 663-1697

Cellco Partnership d/b/a
verizon[✓]
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108


ALL-POINTS
TECHNOLOGY CORPORATION
3 SADDLEBROOK DRIVE PHONE: (860) 663-1697
KILLINGWORTH, CT 06419 FAX: (860) 663-0935

PERMITTING DOCUMENTS		
NO	DATE	REVISION
0	07/26/17	FOR REVIEW: JRM
1	11/06/17	REVISED: JRM
2	11/13/17	FOR FILING: JRM
3		
4		
5		
6		

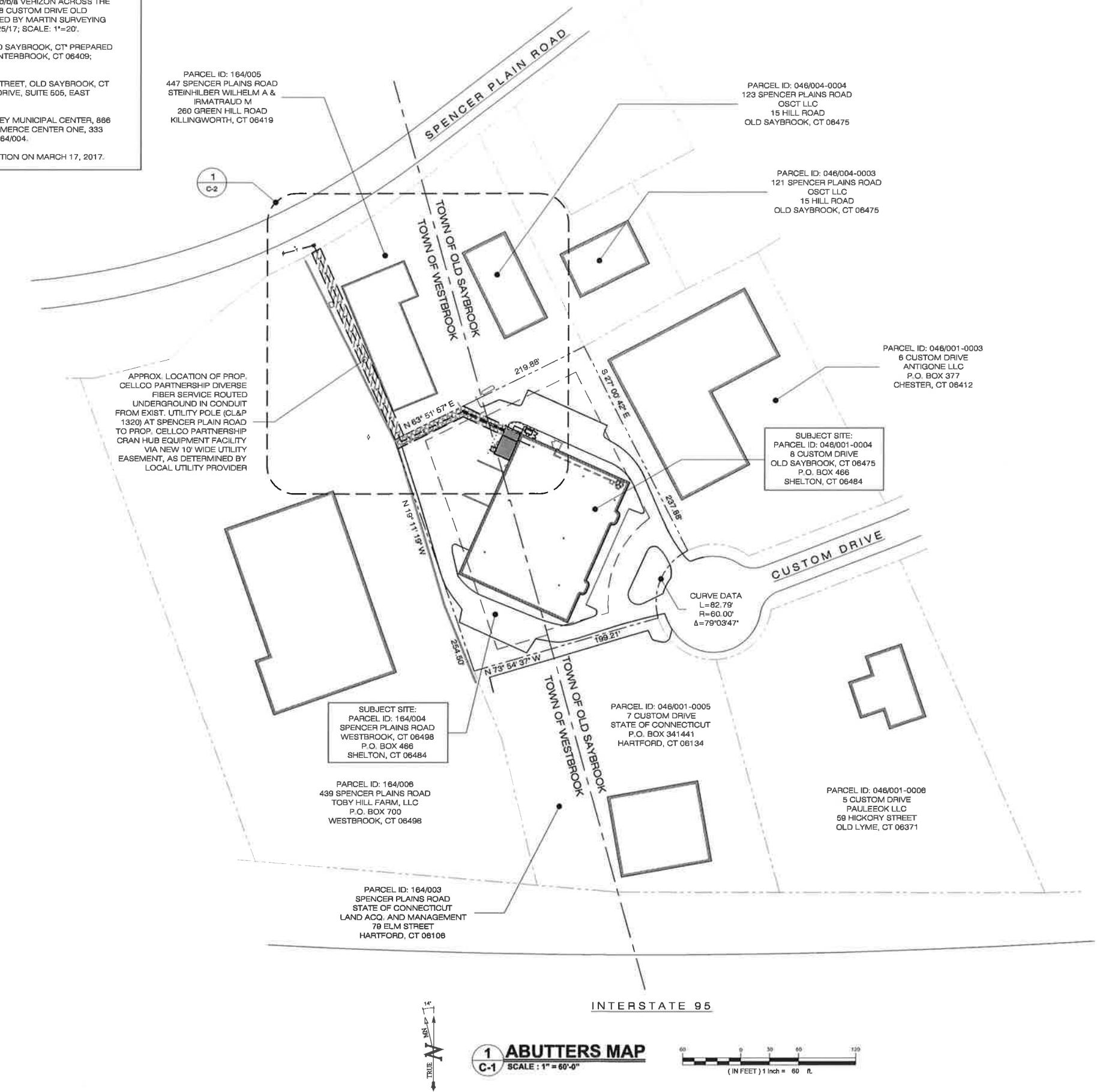
DESIGN PROFESSIONALS OF RECORD
 PROF: SCOTT M. CHASSE P.E.
 COMP: ALL-POINTS TECHNOLOGY
 CORPORATION, P.C.
 ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: ZZZ & I LLC
ADDRESS: P.O. BOX 466
SHELTON, CT 06484

VERIZON AT
OLD SAYBROOK CT CRAN HUB
SITE: 8 CUSTOM DRIVE
ADDRESS: OLD SAYBROOK, CT 06475
APT FILING NUMBER: CRAN9720
DRAWN BY: THK
DATE: 07/26/17 CHECKED BY: JRM

SHEET TITLE:
TITLE SHEET
SHEET NUMBER:
T-1

ABUTTERS MAP REFERENCE:	
1.	*MAP SHOWING EASEMENT TO BE GRANTED TO CELLCO PARTNERSHIP d/b/a VERIZON ACROSS THE PROPERTY OF ZZZ & I, LLC, AND WILHELM & IRMTRAUD STEINHILBER, 8 CUSTOM DRIVE OLD SAYBROOK, CT & 447 SPENCER PLAIN ROAD, WESTBROOK, CT PREPARED BY MARTIN SURVEYING ASSOCIATES, LLC, 201 CHRISTIAN LANE, BERLIN, CT 06037; DATED: 10/25/17; SCALE: 1"-20'.
2.	*LAND OF Z, Z & I, LLC, LOT #4-CUSTOM PARK, CUSTOM DRIVE, OLD SAYBROOK, CT PREPARED BY DOANE-COLLINS ENGINEERING ASSOCIATES, LLC, P.O. BOX 113, CENTERBROOK, CT 06409; DATED: 08/28/02, SCALE: 1"-20'.
3.	*TOWN OF OLD SAYBROOK GIS: TOWN OF OLD SAYBROOK, 302 MAIN STREET, OLD SAYBROOK, CT 06475 - AppGeo - MapGeo, COMMERCE CENTER ONE, 333 EAST RIVER DRIVE, SUITE 505, EAST HARTFORD, CT 06108; PARCEL ID: 046/001-0004.
4.	*TOWN OF OLD WESTBROOK GIS: WESTBROOK TOWN PLANNER, MULVEY MUNICIPAL CENTER, 866 BOSTON POST ROAD, WESTBROOK, CT 06498 - AppGeo - MapGeo, COMMERCE CENTER ONE, 333 EAST RIVER DRIVE, SUITE 505, EAST HARTFORD, CT 06108; PARCEL ID: 164/004.
5.	FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECHNOLOGY CORPORATION ON MARCH 17, 2017.



Cellco Partnership d/b/a
verizon
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

ALL-POINTS
TECHNOLOGY CORPORATION
3 SADDLEBROOK DRIVE PHONE: (860) 663-1697
KILLINGWORTH, CT 06419 FAX: (860) 663-0935
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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4		
5		
6		

DESIGN PROFESSIONALS OF RECORD
PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY
CORPORATION P.C.
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
OWNER: ZZZ & I LLC
ADDRESS: P.O. BOX 466
SHELTON, CT 06484

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OLD SAYBROOK CT CRAN HUB
SITE 8 CUSTOM DRIVE
ADDRESS: OLD SAYBROOK, CT 06475
APT FILING NUMBER: CRAN9720
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ABUTTERS MAP
SHEET NUMBER:
C-1

99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

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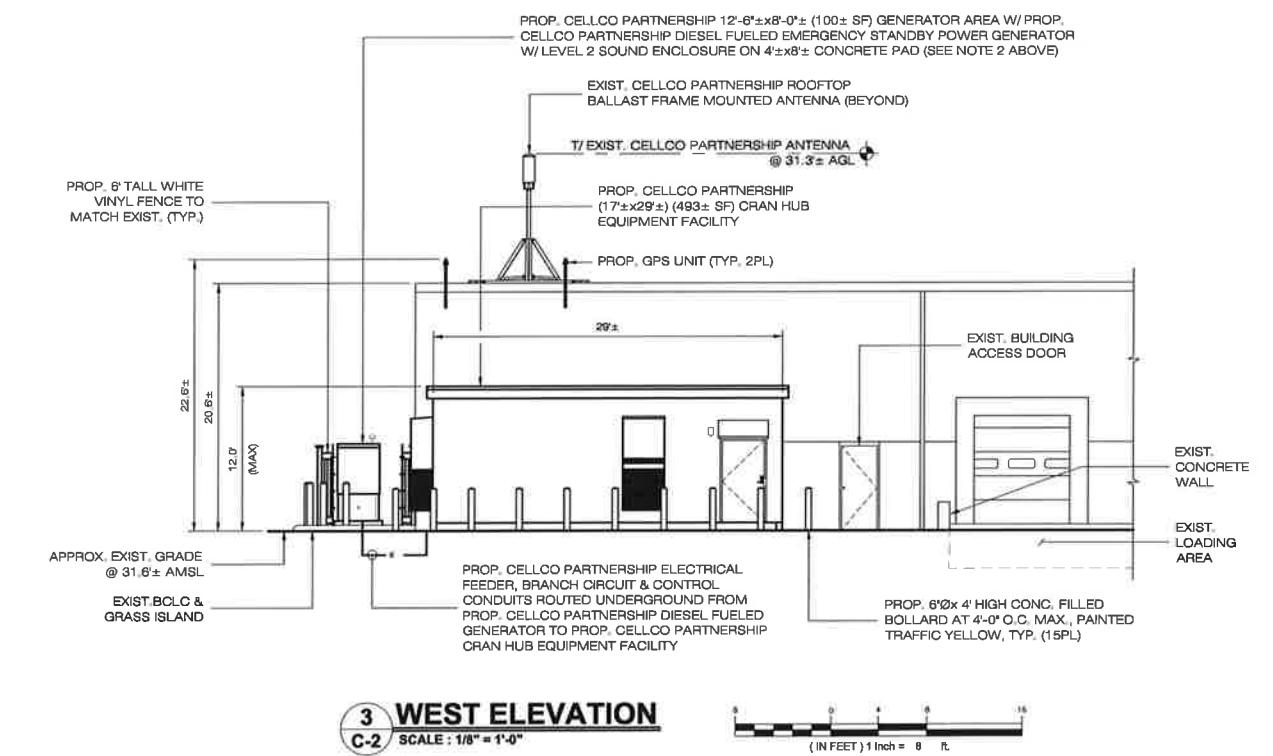
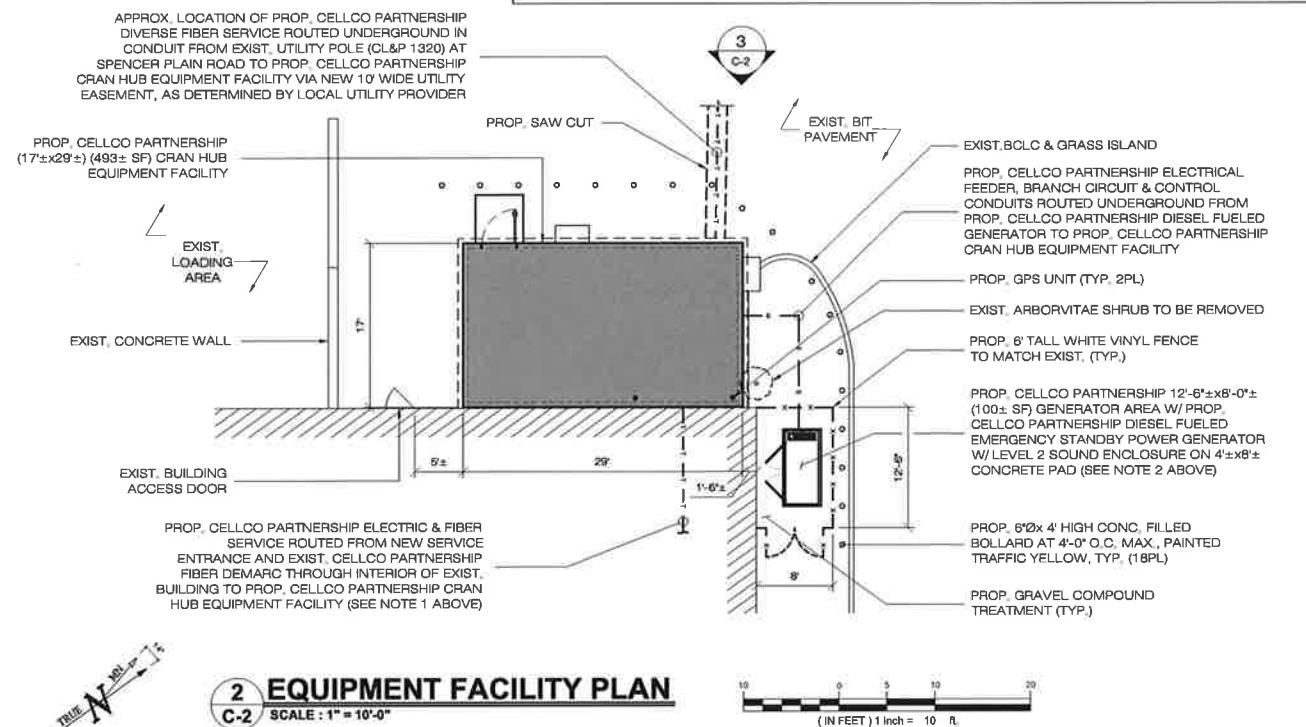
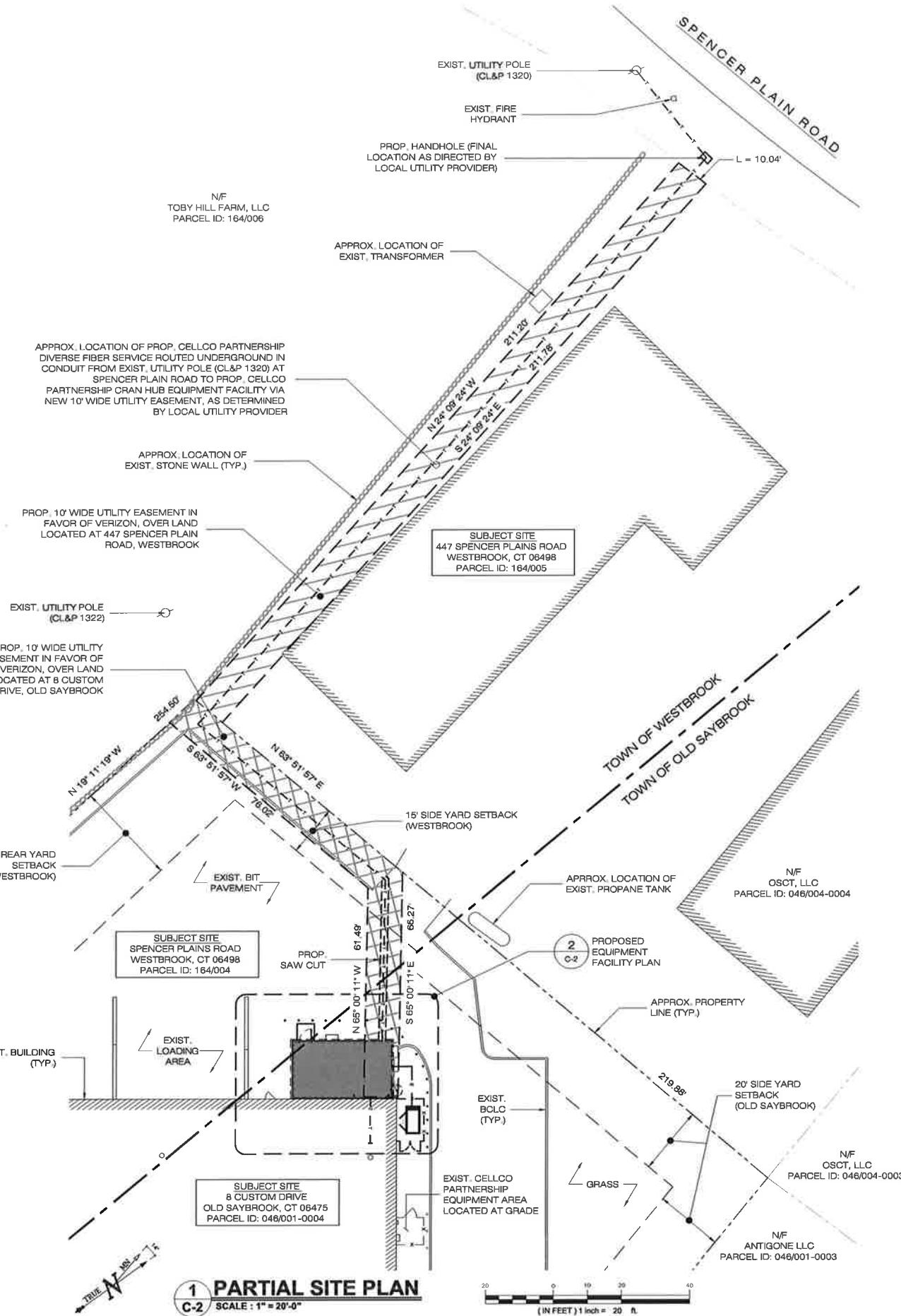
SHEET TITLE:
PARTIAL SITE PLAN,
PROP. EQUIP. FACILITY
PLAN & WEST ELEVATION

SHEET NUMBER:

C-2

NOTES:

- POWER, TELCO AND GROUNDING SHALL BE ROUTED FROM EXISTING DEMARCS WITHIN OR ADJACENT TO THE SUBJECT BUILDING. FINAL UTILITY DEMARC LOCATIONS AND ROUTING TO BE DETERMINED DURING CONSTRUCTION DOCUMENT PHASE OF THE PROJECT AND WILL BE COORDINATED WITH BUILDING OWNER AND LOCAL UTILITY COMPANY REQUIREMENTS. CONDUITS TO BE PAINTED TO MATCH EXIST. BUILDING (WHERE APPLICABLE)
- GENERATOR DESIGN BASED ON KOHLER CO. 50 kW DIESEL- POWERED GENERATOR, MODEL # ADV-8674 50REOZJE-V, W/ SOUND ATTENUATION ENCLOSURE AND UL 142 LISTED SUB-BASE FUEL TANK



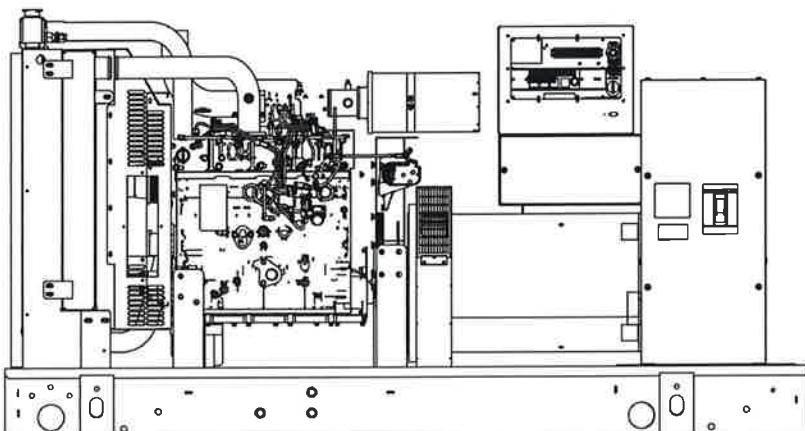
ATTACHMENT 3

STANDBY POWER RATING

60 kW, 75 kVA, 60 Hz

PRIME POWER RATING*

54 kW, 68 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

**Certain options or customization may not hold certification valid.

Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637,
Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator Duct Adapter (open set only)

Fuel System

- Fuel lockoff solenoid
- Primary fuel filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- Full load capacity alternator
- Protective thermal switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Silencer Heat Shield
- Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Rhino Coat™ - Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- Oil Heater
- Industrial Exhaust Silencer

Fuel System

- Flexible fuel lines
- Primary fuel filter

Engine Electrical System

- 10A UL battery charger
- 2.5A UL battery charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical coating
- Permanent Magnet Excitation

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant heater ball valves
- Block Heaters
- Fluid containment pans

ALTERNATOR SYSTEM

- 3rd Breaker Systems

CONTROL SYSTEM

- Spare inputs (x4) / outputs (x4) - H Panel Only
- Battery Disconnect Switch

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

GENERATOR SET

- Gen-Link Communications Software (English Only)
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty
- IBC Seismic Certification

ENCLOSURE

- Weather Protected
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- 150 MPH Wind Kit
- 12 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

TANKS (Size on last page)

- Electrical Fuel Level
- Mechanical Fuel Level
- 8" Fill Extension
- 13" Fill Extension
- 19" Fill Extension

CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Panel (8 or 16)
- Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Ground Fault Indication and Protection Functions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	In-Line
Displacement - L (cu in)	4.5 (274.6)
Bore - mm (in)	105 (4.1)
Stroke - mm (in)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	2 Valve
Piston Type	Aluminium
Crankshaft Type	Forged Steel

Engine Governing

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

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed (rpm)	2538
Fan Diameter mm (in)	660.4 (26)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V/240 V

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line mm (in)	12.7 (0.5) NPT
Fuel Return Line mm (in)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	20 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<3%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	±0.25%

SD060 | 4.5L | 60 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	60 kW	Amps: 250
Three-Phase 120/208 VAC @0.8pf	60 kW	Amps: 208
Three-Phase 120/240 VAC @0.8pf	60 kW	Amps: 180
Three-Phase 277/480 VAC @0.8pf	60 kW	Amps: 90
Three-Phase 346/600 VAC @0.8pf	60 kW	Amps: 72

STARTING CAPABILITIES (sKVA)

Alternator	kW	480 VAC						208/240 VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	60	42	63	83	104	125	146	32	47	62	78	94	110
Upsize 1	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 2	100	79	118	157	197	236	275	59	89	118	148	177	206

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)	Diesel - gph (lph)	
	Percent Load	gph (lph)
3 (1)	25%	1.4 (5.3)
	50%	2.7 (10.2)
Total Fuel Pump Flow (Combustion + Return)	75%	3.8 (14.4)
13.6 gph	100%	4.8 (18.2)

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

COOLING

	Standby
Coolant Flow per Minute	gpm (lpm) 32.7 (123.8)
Coolant System Capacity	gal (L) 4.5 (17.44)
Heat Rejection to Coolant	BTU/hr 123,000
Inlet Air	cfm (m ³ /hr) 6360 (180)
Max. Operating Radiator Air Temp	F° (C°) 122 (50)
Max. Ambient Temperature (before derate)	F° (C°) 104 (40)
Maximum Radiator Backpressure	in H ₂ O 0.5

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power	cfm (m ³ /min) 247 (7.0)

ENGINE

	Standby
Rated Engine Speed	rpm 1800
Horsepower at Rated kW**	hp 93
Piston Speed	ft/min (m/min) 1559 (475)
BMEP	psi 154

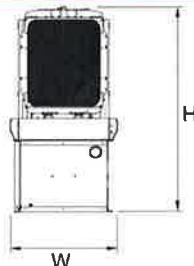
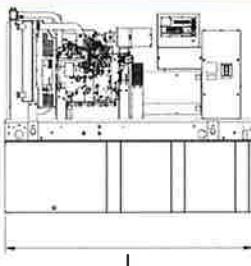
EXHAUST

Exhaust Flow (Rated Output)	cfm (m ³ /min)	Standby
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	930 (498.8)
Exhaust Outlet Size (Open Set)	mm (in)	76.2 (3.0)

** 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.

DIMENSIONS AND WEIGHTS*



OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	93 (2362.2) x 40 (1016) x 49 (1244.6)	2425 (1100)
16	79 (299)	93 (2362.2) x 40 (1016) x 62 (1574.8)	2947 (1201)
39	189 (715.4)	93 (2362.2) x 40 (1016) x 74 (1879.6)	3183 (1444)
63	300 (1135.6)	93 (2362.2) x 40 (1016) x 86 (2184.4)	3407 (1545)
73	350 (1325)	110 (2794) x 40 (1016) x 86 (2184.4)	NA
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 86 (2184.4)	3790 (1719)
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 86 (2184.4)	4269 (1936)

STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only
			Steel
NO TANK	-	112 (2844.8) x 41 (1041.4) x 56 (1422.4)	
16	79 (299)	112 (2844.8) x 41 (1041.4) x 69 (1752.6)	
39	189 (715.4)	112 (2844.8) x 41 (1041.4) x 81 (2057.4)	
63	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)	425 (193)
73	350 (1325)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)	155 (70)
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 93 (2362.2)	
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 93 (2362.2)	

LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only
			Steel
NO TANK	-	130 (3302) x 41 (1041.4) x 56 (1422.4)	
16	79 (299)	130 (3302) x 41 (1041.4) x 69 (1752.6)	
39	189 (715.4)	130 (3302) x 41 (1041.4) x 81 (2057.4)	
63	300 (1135.6)	130 (3302) x 41 (1041.4) x 93 (2362.2)	450 (204)
73	350 (1325)	130 (3302) x 41 (1041.4) x 93 (2362.2)	285 (129)
106	510 (1930.5)	130 (3302) x 47 (1193.8) x 93 (2362.2)	
123	589 (2229.6)	130 (3302) x 49 (1244.6) x 93 (2362.2)	

LEVEL 2 ACOUSTIC ENCLOSURE

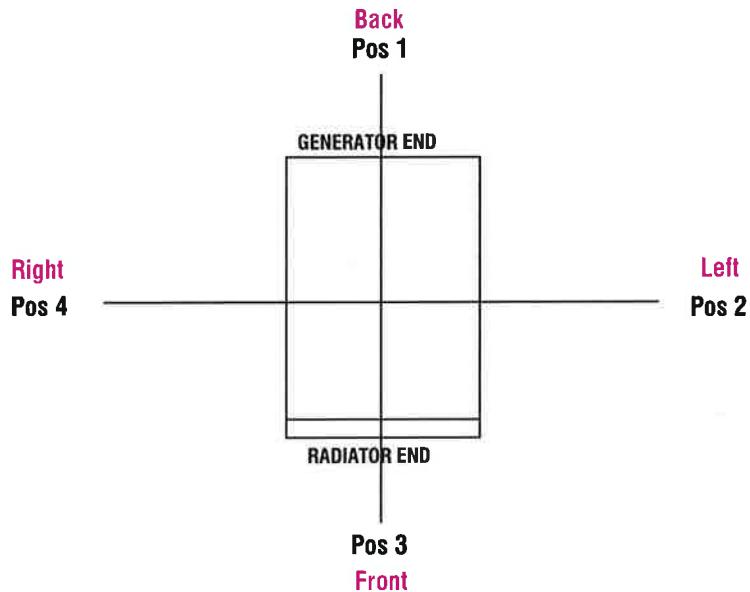
RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only
			Steel
NO TANK	-	112 (2844.8) x 41 (1041.4) x 69 (1752.6)	
16	79 (299)	112 (2844.8) x 41 (1041.4) x 82 (2082.8)	
39	189 (715.4)	112 (2844.8) x 41 (1041.4) x 94 (2387.6)	
63	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)	625 (284)
73	350 (1325)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)	395 (180)
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 106 (2692.4)	
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 106 (2692.4)	

*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

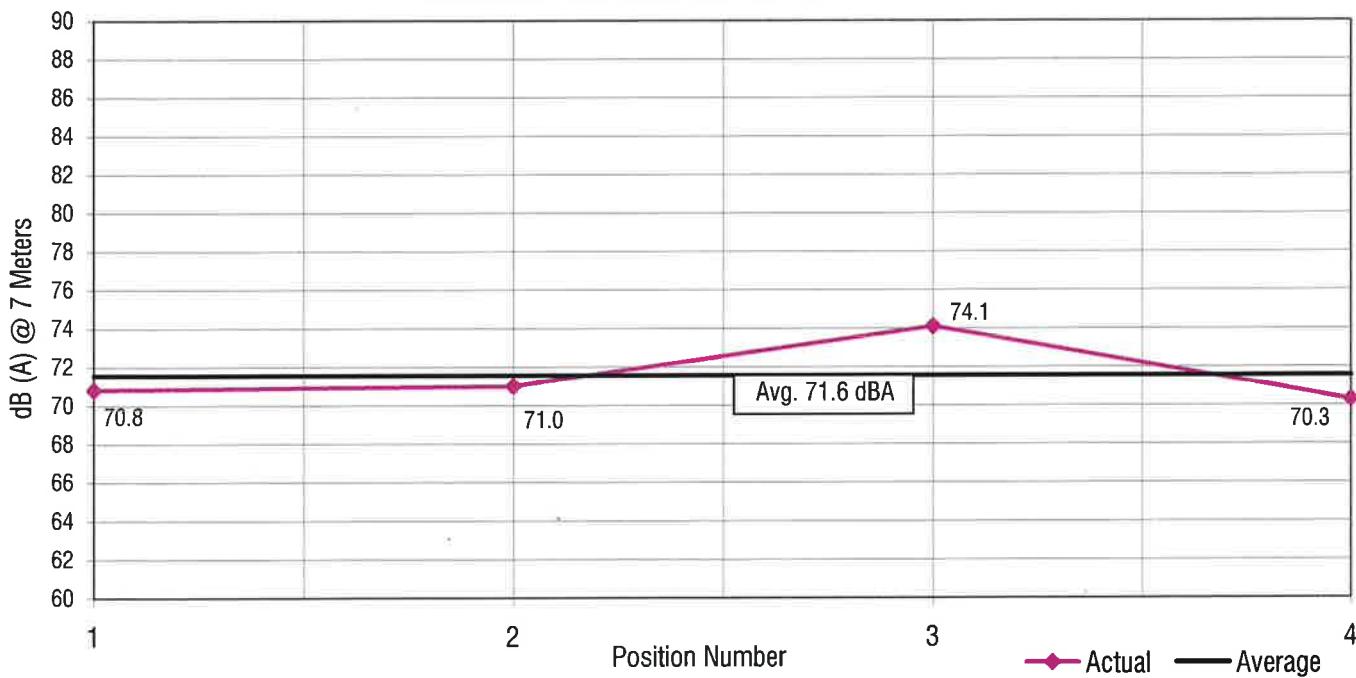
Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

LEVEL 2 ACOUSTIC ENCLOSURE

SD60 4.5L IVECO



Measured Sound Levels - 60 Hz



Notes:

1. All positions 23 ft (7M) from side faces of generator set.
2. Generator operating at full load.
3. Test conducted on a 100 foot diameter asphalt surface.
4. Non-enclosed sets do not include exhaust sound during testing.

ATTACHMENT 4

HMB

HMB Acoustics LLC

3 Cherry Tree Lane, Avon, CT 06001

860-677-5955

Noise Evaluation Report

Verizon Wireless
Old Saybrook CT Cran Hub
8 Custom Drive
Old Saybrook, CT

July 3, 2017

Prepared For:
Kenneth Baldwin, ESQ
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT

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

Introduction

On June 15, 2017, I visited the proposed site in order to perform an evaluation in the surrounding area. The Verizon site is located at 8 Custom Drive, and is in an Industrial Zone. I found the area to be mixed Industrial and Commercial. The surrounding area consists of I-95 and the CT Dept. of Motor Vehicles to the South; BJM Pumps and Hale Propeller to the North; Cold Spring Brook to the East; and Westbrook Concrete Block to the West. The average background noise level is 50-60 dBA.

The site has an existing Cran Hub equipment facility building with two (2) wall mounted air conditioning units. One is mounted on the North wall; and the other is on the West wall. A 60 kw diesel fueled standby emergency generator with a Level 2 Sound Enclosure is located on a concrete pad, at grade, to the East side of the Cran Hub building. The purpose of this evaluation is to determine whether the generator and HVAC units comply with the State of CT Noise Regulations.

It is important to note that the emergency generator operates for approximately 15-20 minutes every other 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 noise regulations 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 State of CT 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:

Daytime hours - The hours between 7 a.m. and 10 p.m., local time.

Nighttime hours - The hours between 10 p.m. and 7 a.m., local time.

Noise Standards - Noise emitted from Industrial Zones to abutting property lines shall not exceed the dBA levels stated below:

Emitter Zone	Allowable Noise Levels (dBA)			
	Industrial	Commercial	Residential/Day	Residential/Night
Industrial	70	66	61	51

The Calculated Noise Levels (dBA) From The Proposed Generator And 2 HVAC Units Operating Simultaneously, Have Been Projected To The Nearest Abutting Property Lines, And Are Listed Below:

Property Line

North	52 dBA
South	49 dBA
East	50 dBA
West	48 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 2 HVAC units running simultaneously meet the conditions for compliance as set forth in the noise regulations when projected to the nearest abutting property lines.

ATTACHMENT 5

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

November 14, 2017

Via Certificate of Mailing

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

Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, 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 modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property.

A copy of the Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

17272419-v1

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

November 14, 2017

Via Certificate of Mailing

Christine Nelson, Town Planner
Town of Old Saybrook
302 Main Street
Old Saybrook, CT 06475

Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, Old Saybrook, Connecticut**

Dear Ms. Nelson:

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 modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property.

A copy of the Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

17272454-v1

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

November 14, 2017

Via Certificate of Mailing

Noel Bishop, First Selectman
Town of Westbrook
866 Boston Post Road
Westbrook, CT 06498

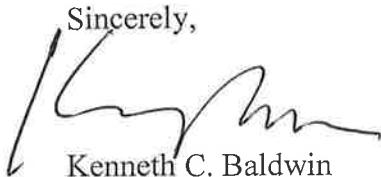
Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, Old Saybrook, Connecticut**

Dear Mr. Bishop:

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 modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property.

A copy of the Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

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

Sincerely,

Kenneth C. Baldwin

Attachment

17272459-v1

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

November 14, 2017

Via Certificate of Mailing

Meg Parulis, Town Planner
Town of Westbrook
866 Boston Post Road
Westbrook, CT 06498

Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, Old Saybrook, Connecticut**

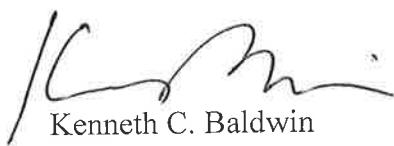
Dear Ms. Parulis:

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 modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property.

A copy of the Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

17272533-v1

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

November 14, 2017

Via Certificate of Mailing

222 & I LLC
P.O. Box 466
Shelton, CT 06484

Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, Old Saybrook, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property.

A copy of the Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

17272543-v1

ATTACHMENT 6

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

November 14, 2017

Via Certificate of Mailing

«Name_and_Address»

Re: **Proposed Modification of an Existing Telecommunications Facility at 8 Custom Drive, 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 modify its existing telecommunications facility at 8 Custom Drive in Old Saybrook (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) equipment shelter and back-up generator at the Property. A copy of the Petition is attached for your review.

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

Sincerely,



Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

8 CUSTOM DRIVE, OLD SAYBROOK, CONNECTICUT

Old Saybrook

	Property Address	Owner's and Mailing Address
1.	123 Spencer Plains Road	OSCT LLC 15 Hill Road Old Saybrook, CT 06475
2.	121 Spencer Plains Road	OSCT LLC 15 Hill Road Old Saybrook, CT 06475
3.	6 Custom Drive	Antigone LLC P.O. Box 377 Chester, CT 06412
4.	7 Custom Drive	State of Connecticut P.O. Box 341441 Hartford, CT 06134
5.	5 Custom Drive	Pauleeok LLC 59 Hickory Street Old Lyme, CT 06371

Westbrook

6.	Spencer Plains Road	State of Connecticut Land Acq. And Management 79 Elm Street, 6 th Floor Hartford, CT 06106
7.	439 Spencer Plains Road	Toby Hill Farm LLC P.O. Box 700 Westbrook, CT 06498
8.	447 Spencer Plains Road	Wilhelm A. and Irmaud A. Steinhilber 260 Green Hill Road Killingworth, CT 06419