

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 :  
WIRELESS TELECOMMUNICATIONS :  
FACILITY OFF HONEYSPOT ROAD, :  
STRATFORD, CONNECTICUT : FEBRUARY 7, 2018

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 off Honeyspot Road in Stratford, Connecticut (the “Property”).

II. Factual Background

Becker LLC owns property identified as 623, 635 and 651 Honeyspot Road in Stratford, Connecticut (collectively the “Property”). The Property lies in Stratford’s CA – Retail Commercial zone district and is surrounded by a mix of commercial uses along Honeyspot Road and residential uses along Columbus Avenue and Garbaldi Avenue. *See Attachment 1 – Site*

Vicinity and Site Schematic Maps (Aerial Photograph). Cellco currently maintains and operates a wireless telecommunications facility on the Property consisting of antennas at the 82-foot level of the existing 102-foot tower. The tower is also owned by Becker LLC. Equipment associated with Cellco's antennas is located inside an existing building adjacent to the tower. The Council approved Cellco's shared use of the tower in 1999. (A copy of Cellco's tower share approval (TS-SCLP/BAM/ATT-138-990525) is included in Attachment 2).

### III. Proposed Facility Modification

Cellco intends to install a Centralized Radio Access Network ("C-RAN") on the Property to the southeast of the tower site. The purpose of a C-RAN is to allow several existing cell sites in the 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 in the future. 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's C-RAN will consist of a new 17' x 38' x 11' shelter on a concrete pad located to the southeast of the existing telecommunications facility. The new shelter will house Cellco's C-RAN equipment and a 80 kW natural gas-fueled back-up generator. Power, telephone and fiber optic service and natural gas service<sup>1</sup> to the C-RAN shelter will extend from Columbus Avenue. Project Plans for the Stratford C-RAN Facility are included in Attachment 3. Specifications for

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<sup>1</sup> Final routing of natural gas distribution service to the C-RAN Facility will be determined following the Council's approval and a site walk by gas company engineers.

Cellco's 80 kW back-up generator 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 giving it jurisdiction over the construction and modification of wireless telecommunication facilities "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 facility modifications described above, necessary to establish the Stratford C-RAN facility, will not involve a significant alteration to the physical and/or environmental characteristics of the Property. Minimal ground disturbance, for the installation of a new 17' x 38' concrete pad to accommodate the C-RAN shelter will be required.

2. Visual Effects

The installation of the 17' x 38' C-RAN shelter, 11 feet in height on the Property, to the south of the existing telecommunications facility will not have a significant impact on aesthetics in the area. Existing deciduous trees on the Property will be retained and will help screen the C-RAN shelter from view from adjacent parcels.

3. Noise

The operation of the new C-RAN shelter including the new back-up generator and two (2) HVAC units running simultaneously will comply with State and local Noise Standards. *See*

HMB Noise Evaluation Report included in Attachment 5.

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 cell site. A new power density calculation table has not, therefore, been provided as part of this filing.

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

On February 7, 2018, a copy of this Petition was sent to Stratford’s Mayor Laura R. Hoydick; Jay Habansky, Stratford Planning and Zoning Administrator; and Becker LLC, the Property owner. Copies of the letters sent to Mayor Hoydick, Mr. Habansky and Becker LLC are included in Attachment 6. 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 7.

V. Conclusion

Based on the information provided above, Celco 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 Stratford 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,

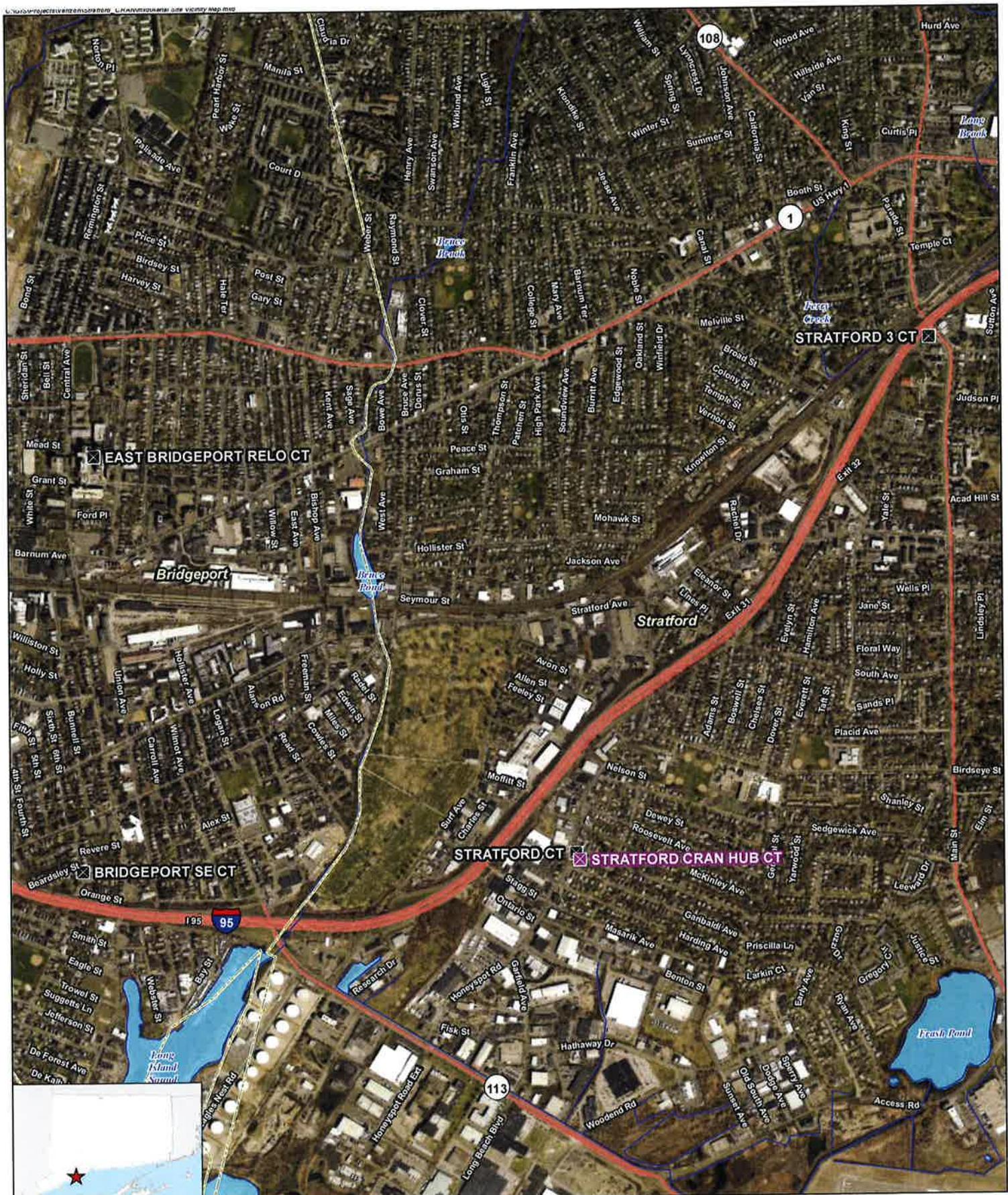
CELLCO PARTNERSHIP d/b/a VERIZON  
WIRELESS

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 CRAN HUB Facility
- ☒ Surrounding Verizon Wireless Facilities
- Municipal Boundary
- ~~~~ Watercourse (CTDEEP)
- ~~~~ Waterbody (CTDEEP)

Base Map Source: CT 2016 Aerial Imagery (CTECO)  
 Map Scale: 1 inch = 1,500 feet  
 Map Date: July 2017

#### Site Vicinity Map

Proposed Verizon Wireless  
 CRAN HUB Facility  
 Stratford CRAN HUB CT  
 635 Honeyspot Road  
 Stratford, Connecticut



1,500 750 0 1,500  
 Feet

verizon

ALL-POINTS  
 TECHNOLOGY CORPORATION



#### Legend

- Approximate Subject Property
- Existing VzW Equipment Room
- Proposed +/-38'x17' Equipment Building
- Proposed 10' Wide Access Easement
- Proposed Electrical Conduit Route through building
- Proposed Preliminary Underground Natural Gas Route
- Proposed Preliminary Underground Telco Route

Map Notes:  
 Base Map Source: 2016 Aerial Photograph (CTECO)  
 Map Scale: 1 inch = 50 feet  
 Map Date: July 2017

#### Site Schematic

Proposed Verizon Wireless  
 CRAN HUB Facility  
 Stratford CRAN HUB CT  
 635 Honeyspot Road  
 Stratford, Connecticut

**verizon**

**ALL-POINTS**  
 TECHNOLOGY CORPORATION



50 25 0 50  
 Feet

## **ATTACHMENT 2**



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

June 23, 1999

Peter W. van Wilgen  
SNET Wireless Inc.  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: TS-SCLP/BAM/ATT-138-990525 - Springwich Cellular Limited Partnership, Celco Partnership d/b/a Bell Atlantic Mobile and AT&T Wireless PCS d/b/a AT&T Wireless Services request for an order to approve tower sharing at an existing telecommunications facility located at 623-627 Honeyspot Road in Stratford, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held June 16, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures, conditioned with a requirement to use a galvanized steel finish on the new tower, no tower lighting unless ordered by the Federal Aviation Administration, and the use of low-profile antennas, as requested by the Town of Stratford, Connecticut.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated May 25, 1999, and additional information dated June 15, 1999. Please notify the Council when all work is complete.

Very truly yours,

*Mortimer A. Gelston*

Mortimer A. Gelston  
Chairman

MAG/RKE/tsg

c: Mark S. Barnhart, Town Manager, Town of Stratford  
Sandy Carter, Bell Atlantic Mobile  
Paul A. Spurlock, AT&T Wireless Services, Inc.

## **ATTACHMENT 3**



## MOBILE SWITCHING CENTER

SITE NAME: STRATFORD CT  
CRAN TELCO HUB

635 HONEYSPOT RD.  
STRATFORD, CT 06615

## PROJECT DESCRIPTION

- INSTALLATION OF A 1-STORY VERIZON EQUIPMENT BUILDING AT GRADE WITH TELCO "CRAN" EQUIPMENT ROOM AND EMERGENCY GENERATOR ROOM
- INSTALLATION OF (2) VERIZON GPS ANTENNAS ON BUILDING
- NATURAL GAS & TELCO/FIBER SERVICES ROUTED U/G FROM THE ADJACENT STREETS
- ELECTRICAL SERVICE TO ORIGINATE FROM EXISTING 2-STORY BUILDING ON-SITE; EXISTING VERIZON "MACRO" EQUIP. ROOM INSIDE TO BE ON NEW VERIZON GENERATOR



## PROJECT SUMMARY

SITE NAME:	STRATFORD CT CRAN TELCO HUB
SITE ADDRESS:	635 HONEYSPOT RD. STRATFORD, CT 06615
PROPERTY OWNER & MAILING ADDRESS:	BECKER LLC 951 BEAVER DAM RD. STRATFORD, CT 06614
PARCEL GIS PIN:	0795300
TOWER COORDINATES:	41° 36' 08.0" N    72° 52' 43.0" W
APPLICANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DR., 9TH FL. EAST HARTFORD, CT 06108
VERIZON WIRELESS CONTACTS:	JOHN ROMANO - CONSTRUCTION (203) 858-5500 DOUG TALMADGE - SAC (860) 549-6116
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE, LLP (860) 275-8345

## DRAWING SCHEDULE

SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP & OWNER'S LIST
C-2	SITE PLAN
C-3	ENLARGED SITE PLAN, ELEVATION & DETAILS

**verizon** ✓  
MOBILE SWITCHING CENTER  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

 On Air Engineering, LLC  
88 Foundry Pond Rd.  
Cold Spring, NY 10516  
onair@optonline.net  
201-456-4624

**LICENSURE**

DAVID WEINPAHL, P.E.  
CT LIC. NO. 22144

DRAWN BY: AS	CHECKED BY: DW
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SITE NAME: **STRATFORD CT CRAN**

**PROJECT DESCRIPTION:**

PROJECT INFORMATION:  
**BECKER LLC**  
**635 HONEYSPOT RD.**  
**STRATFORD, CT 06615**

**DRAWING TITLE:**

**SHEET NUMBER:** **T-1**



**verizon**

MOBILE SWITCHING CENTER

99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

 **On Air Engineering, LLC**

88 Foundry Pond Rd.  
Cold Spring, NY 10516  
omair@optonline.net  
201-456-4624

LICENSURE

DAVID WEINPAHL, P.E.  
CT LIC NO. 22144

NO.:	DATE:	SUBMISSIONS
0	12.30.17	REVIEW
1	01.20.18	REVISED PER ATTORNEY COMMENTS

DRAWN BY: **AS** CHECKED BY: **DW**

SITE NAME:  
**STRATFORD CT CRAN**

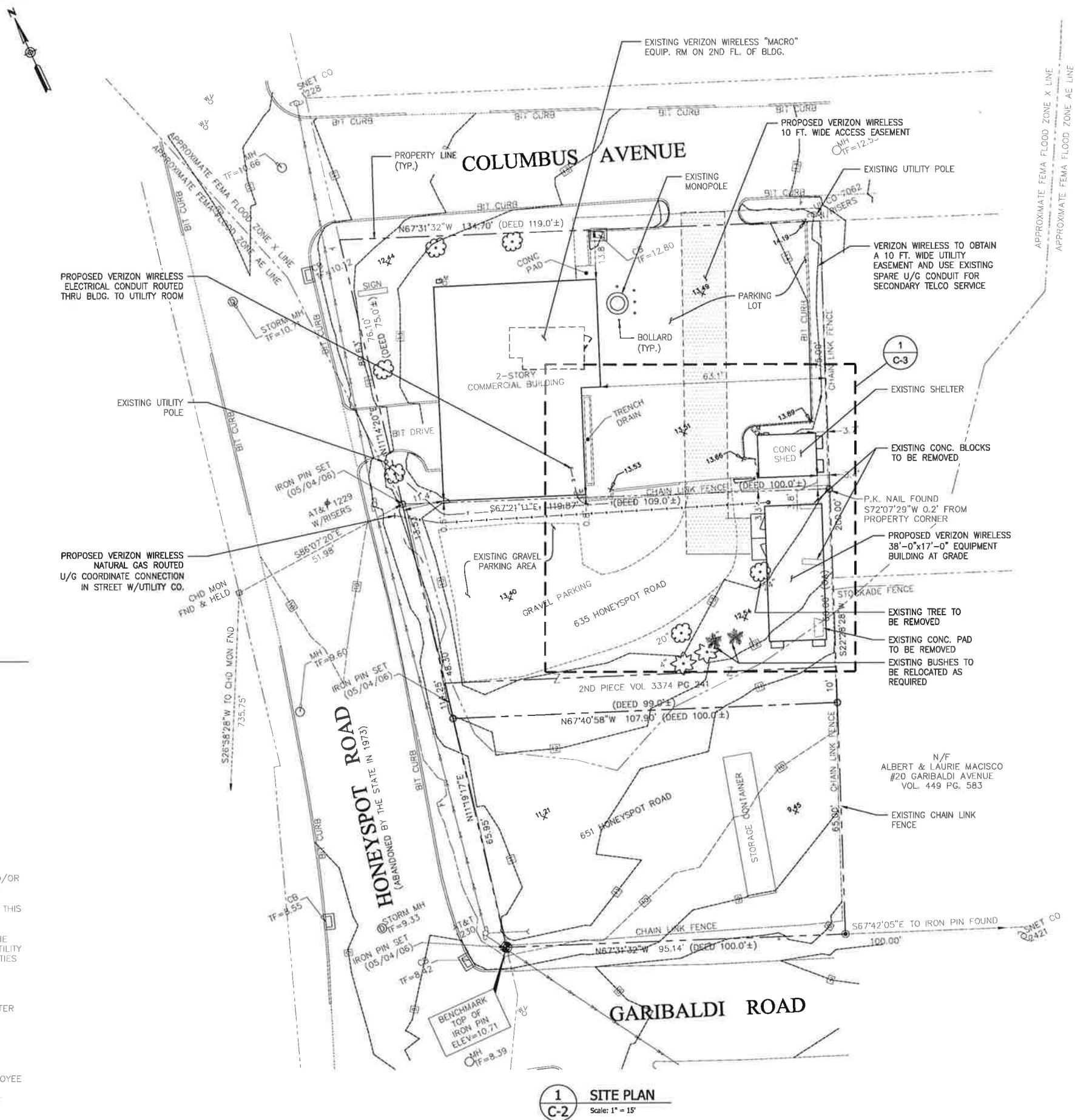
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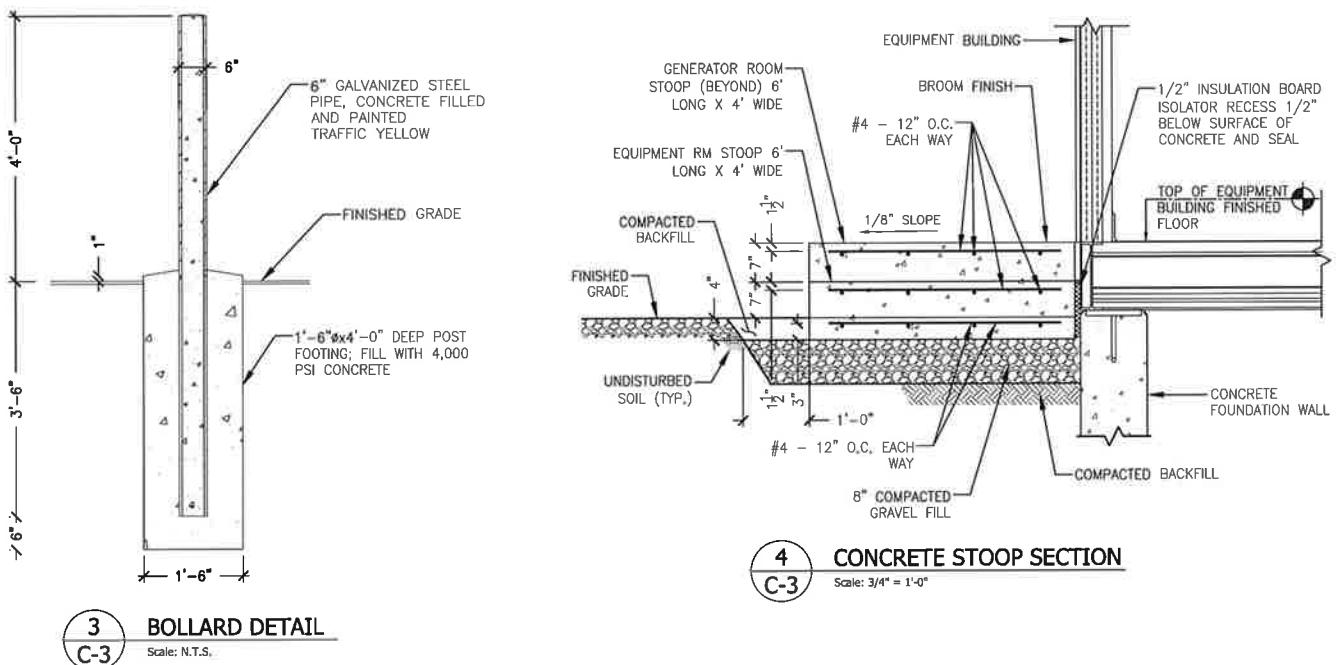
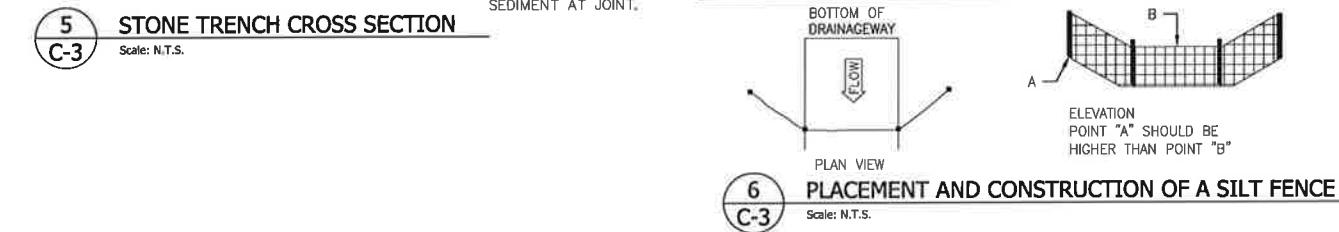
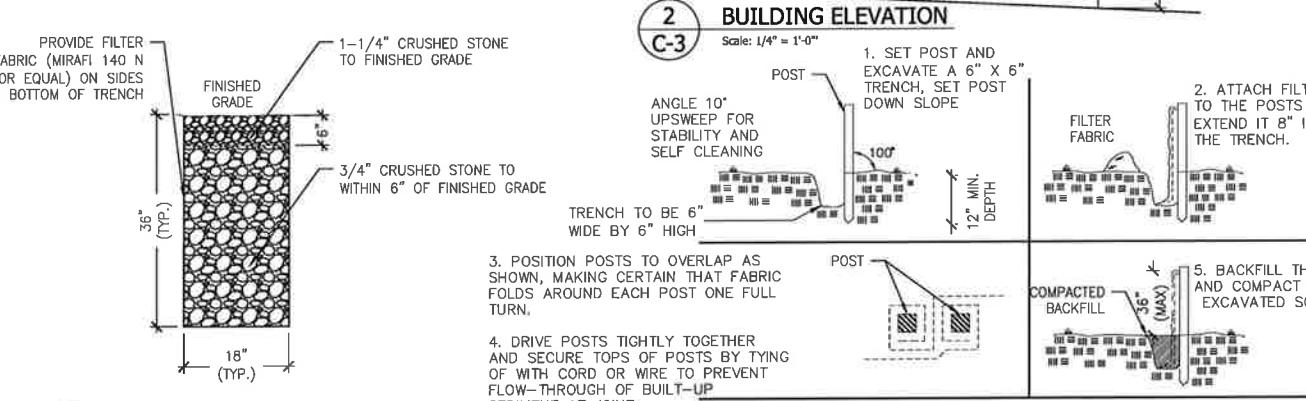
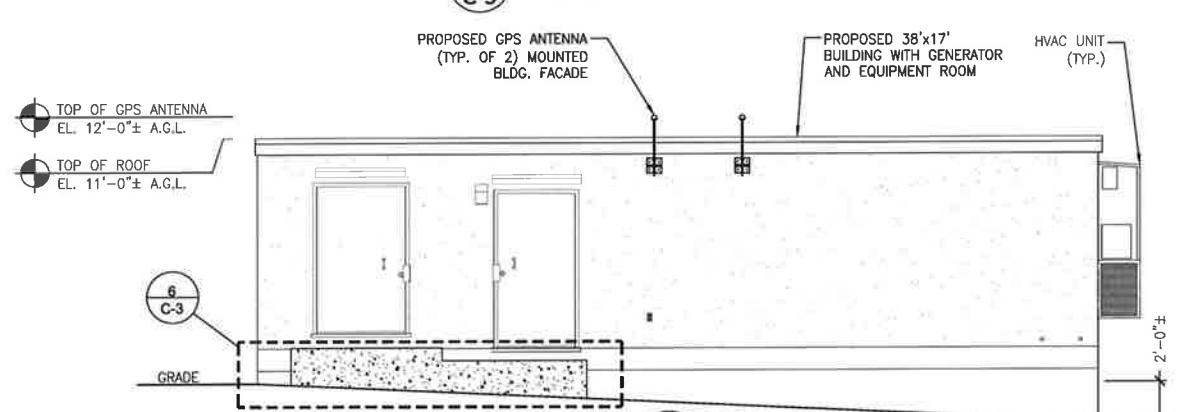
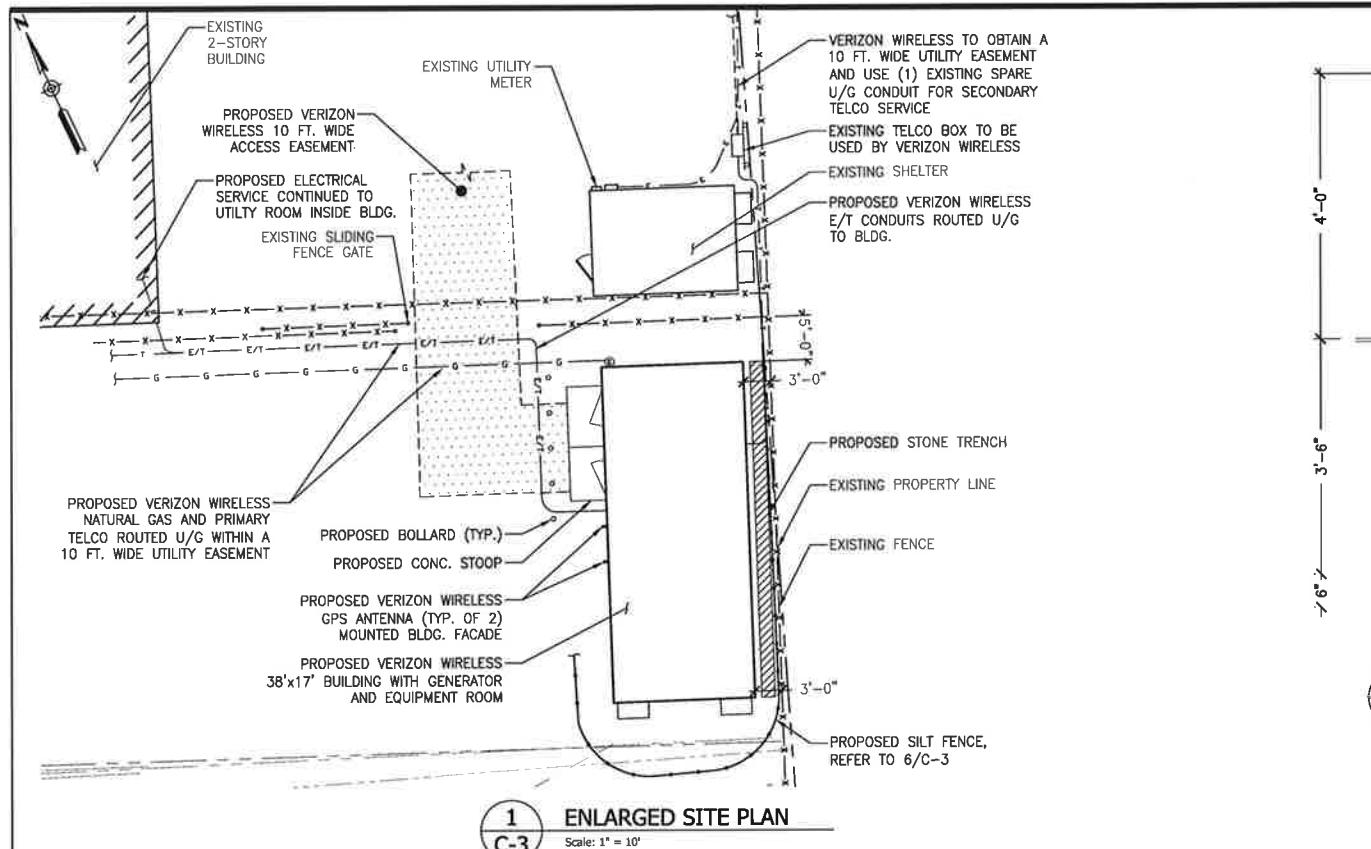
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**BECKER LLC**  
**635 HONEYSPOT RD.**  
**STRATFORD, CT 06615**

DRAWING TITLE:

**SITE PLAN**

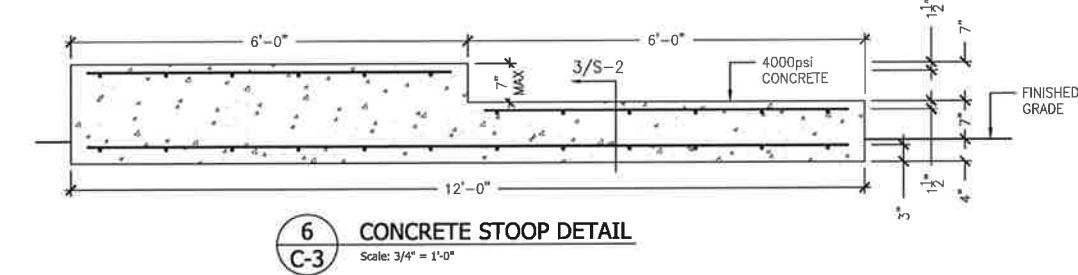
SHEET NUMBER:  
**C-2**



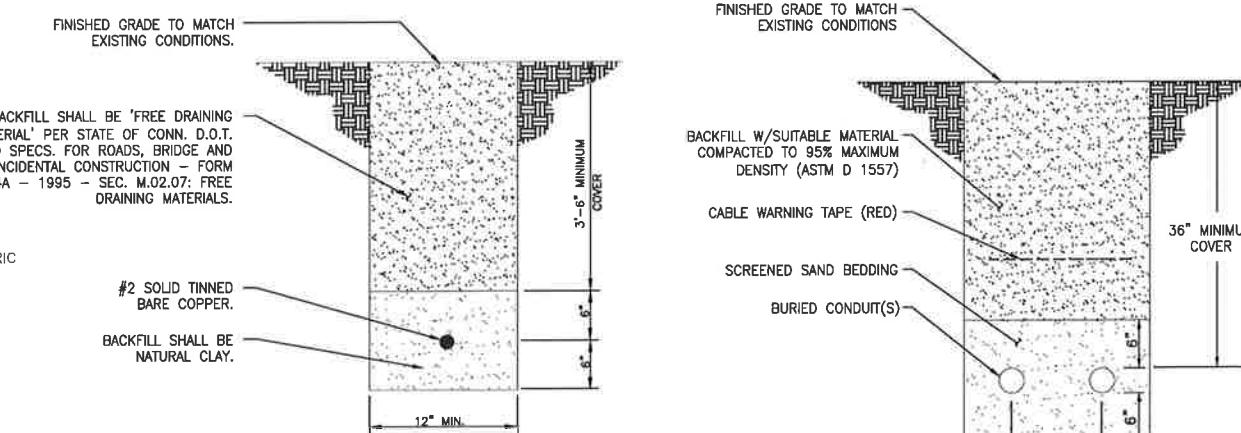


3 C-3 BOLLARD DETAIL  
Scale: N.T.S.

4 C-3 CONCRETE STOOP SECTION  
Scale: 3/4" = 1'-0"



6 C-3 CONCRETE STOOP DETAIL  
Scale: 3/4" = 1'-0"



NOTES:

1. ENGINEER SHALL INSPECT PLACEMENT OF EGR CONDUCTOR PRIOR TO BACKFILLING.
2. MAINTAIN MIN. 2'-0" LINEAR CLEARANCE BETWEEN NATURAL CLAY BACKFILL AND THE FOLLOWING: FOUNDATION, UNDERGROUND PIPING/CONDUIT, UNDERGROUND SERVICES. IN THE CLEARANCE AREAS, USE EARTH BACKFILL INSTEAD.
3. EXERCISE HANDLING AND USE PRECAUTION OF BACKFILL MATERIAL PER MFR'S REQUIREMENTS.

8 C-3 EGR TRENCH/BACKFILL DETAIL  
Scale: N.T.S.

NOTES:

1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

9 C-3 TYPICAL ELECTRICAL TRENCH DETAIL  
Scale: N.T.S.

**verizon**  
MOBILE SWITCHING CENTER  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

**On Air Engineering, LLC**  
88 Foundry Pond Rd.  
Cold Spring, NY 10516  
omair@optonline.net  
201-456-4624

LICENSURE

DAVID WEINPAHL, P.E.  
CT LIC. NO. 22144

NO.: DATE: SUBMISSIONS  
0 12.30.17 REVIEW  
1 01.20.18 REVISED PER ATTORNEY COMMENTS

DRAWN BY: AS  
CHECKED BY: DW

SITE NAME:  
**STRATFORD CT CRAN**

PROJECT DESCRIPTION:  
**CRAN TELCO HUB**

PROJECT INFORMATION:  
**BECKER LLC**  
635 HONEYSPOT RD.  
STRATFORD, CT 06615

DRAWING TITLE:  
**ENLARGED SITE PLAN,  
BUILDING ELEVATION  
& DETAILS**

SHEET NUMBER:  
**C-3**

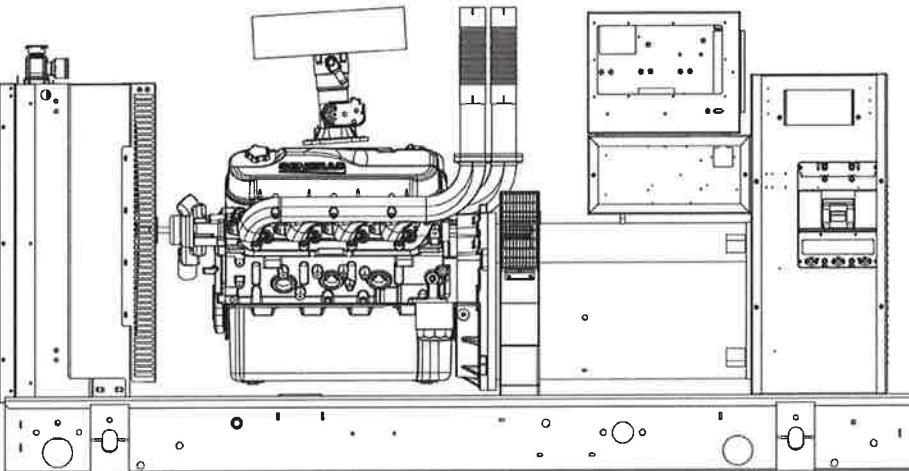
## **ATTACHMENT 4**

**STANDBY POWER RATING**

80 kW, 100 kVA, 60 Hz

**PRIME POWER RATING\***

72 kW, 90 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.

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



IBC 2009, CBC 2010, IBC 2012, ASCE 7-05,  
ASCE 7-10, ICC-ES AC-156 (2012)

**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
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (open set only)
- Critical Exhaust Silencer (enclosed only)

#### Fuel System

- Flexible fuel line - NPT Connection
- Primary and secondary fuel shutoff

#### Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- 50/50 Ethylene glycol antifreeze
- Radiator drain extension

### Engine Electrical System

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

### ALTERNATOR SYSTEM

- UL2200 Genprotect™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

### 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

### GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year 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 (L1 & L2)
- 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

- 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)

**SG080 | 8.0L | 80 kW**

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

**GENERAC** | INDUSTRIAL  
POWER

## CONFIGURABLE OPTIONS

### ENGINE SYSTEM

#### General

- Engine Block Heater
- Oil Heater
- Air Filter Restriction Indicator
- Stone Guard (Open Set Only)
- Critical Exhaust Silencer (Open Set Only / Standard on Ultra Low Emissions Option)

#### Electrical System

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

### ALTERNATOR SYSTEM

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

### CIRCUIT BREAKER OPTIONS

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

## ENGINEERED OPTIONS

### ENGINE SYSTEM

- Fluid containment Pans
- Coolant heater ball valves

### ALTERNATOR SYSTEM

- 3rd Breaker Systems

### CONTROL SYSTEM

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

### GENERATOR SET

- Gen-Link Communications Software (English Only)
- Extended Factory Testing (3 Phase Only)
- IBC Seismic Certification
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty

### ENCLOSURE

- Standard Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- 12 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

### CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Board (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 - Bridge
- 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		Cooling System	
Make	Generac	Cooling System Type	Pressurized Closed
Cylinder #	8	Water Pump Flow -gal/min (l/min)	26 (98)
Type	V	Fan Type	Pusher
Displacement - L (cu in)	7.94L (489)	Fan Speed (rpm)	2330
Bore - mm (in)	108.61 (4.28)	Fan Diameter mm (in)	558 (22)
Stroke - mm (in)	107.15 (4.25)	Coolant Heater Wattage	1500
Compression Ratio	9.5:1	Coolant Heater Standard Voltage	120 V
Intake Air Method	Naturally Aspirated		
Number of Main Bearings	5		
Connecting Rods	Forged	Fuel System	
Cylinder Head	Cast Iron	Fuel Type	Natural Gas, Propane
Cylinder Liners	No	Carburetor	Down Draft
Ignition	High Energy	Secondary Fuel Regulator	Standard
Piston Type	Aluminum Alloy	Fuel Shut Off Solenoid	Standard
Crankshaft Type	Forged Steel	Operating Fuel Pressure (Standard)	11" - 14" H <sub>2</sub> O
Lifter Type	Hydraulic Roller	Operating Fuel Pressure (Optional)	7" - 11" H <sub>2</sub> O
Intake Valve Material	Steel Alloy	Engine Electrical System	
Exhaust Valve Material	Stainless Steel	System Voltage	12 VDC
Hardened Valve Seats	Yes	Battery Charging Alternator	Standard
Engine Governing		Battery Size	See Battery Index 0161970SBY
Governor	Electronic	Battery Voltage	12 VDC
Frequency Regulation (Steady State)	±0.25%	Ground Polarity	Negative
Lubrication System			
Oil Pump Type	Gear		
Oil Filter Type	Full-flow spin-on cartridge		
Crankcase Capacity - L (qts)	8.5 (8.0)		

### ALTERNATOR SPECIFICATIONS

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

## OPERATING DATA

### POWER RATINGS

		Natural Gas	Propane Vapor
Single-Phase 120/240 VAC @1.0pf	80 kW	Amps: 333	Amps: 333
Three-Phase 120/208 VAC @0.8pf	80 kW	Amps: 278	Amps: 278
Three-Phase 120/240 VAC @0.8pf	80 kW	Amps: 241	Amps: 241
Three-Phase 277/480 VAC @0.8pf	80 kW	Amps: 120	Amps: 120
Three-Phase 347/600 VAC @0.8pf	80 kW	Amps: 96	Amps: 96

### STARTING CAPABILITIES (sKVA)

Alternator	kW	480 VAC						208/240 VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 1	100	79	118	157	197	236	275	59	89	118	148	177	206
Upsize 2	130	116	174	232	290	348	406	87	131	174	218	261	305

### FUEL CONSUMPTION RATES\*

Natural Gas - ft <sup>3</sup> /hr (m <sup>3</sup> /hr)		Propane Vapor - ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	
Percent Load	Standby	Percent Load	Standby
25%	378 (10.7)	25%	148.0 (4.2)
50%	570 (16.1)	50%	223 (6.5)
75%	762 (21.6)	75%	305 (8.6)
100%	954 (27.0)	100%	379 (10.7)

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

### COOLING

	Standby
Air Flow (inlet air combustion and radiator)	ft <sup>3</sup> /min (m <sup>3</sup> /min)
Coolant Flow per Minute	gal/min (l/min)
Coolant System Capacity	gal (l)
Heat Rejection to Coolant	BTU/hr
Max. Operating Ambient Temperature (before derate)	°F (°C)
Maximum Radiator Backpressure	in H <sub>2</sub> O

### COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m <sup>3</sup> /min)	220 (6.2)

### ENGINE

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

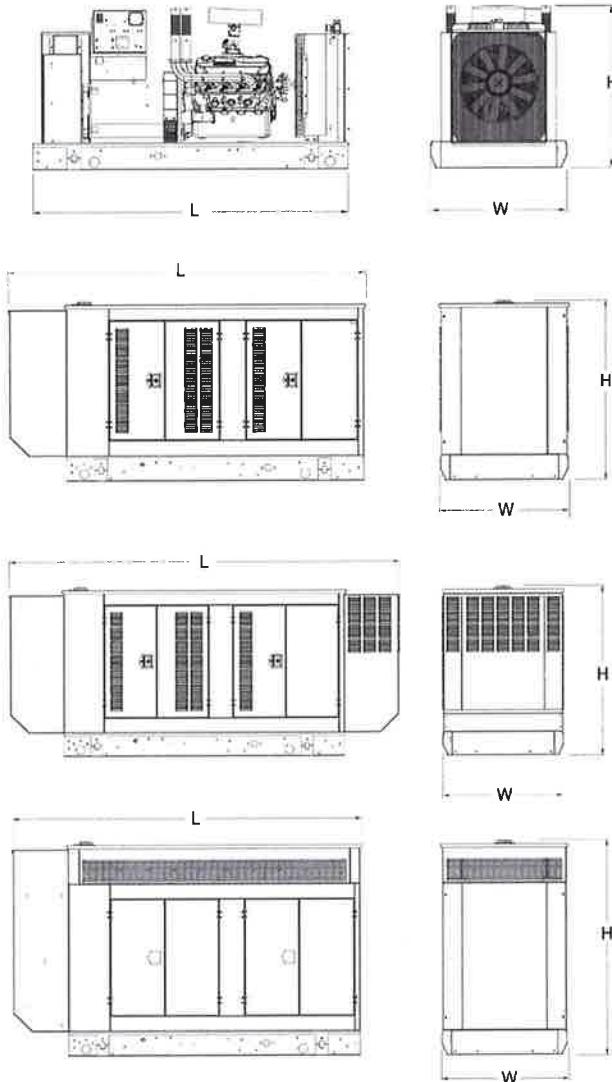
### EXHAUST

	Standby
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)
Max. Backpressure (Post Turbo)	inHg (Kpa)
Exhaust Temp (Rated Output - post silencer)	°F (°C)
Exhaust Outlet Size (Open Set)	mm (in)

\*\* 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 (Includes Exhaust Flex)**

L x W x H in (mm)	94.2 (2394) x 40 (1016) x 47.5 (1206)
Weight lbs (kg)	2543 (1153)

**STANDARD ENCLOSURE**

L x W x H in (mm)	111.79 (2839.5) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 3072 (1393) Aluminum: 2802 (1271)

**LEVEL 1 ACOUSTIC ENCLOSURE**

L x W x H in (mm)	129.42 (3287.2) x 40.46(1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 3233 (1466) Aluminum: 2873 (1303)

**LEVEL 2 ACOUSTIC ENCLOSURE**

L x W x H in (mm)	111.81 (2840) x 40.46 (1027.8) x 68.61 (1742.8)
Weight lbs (kg)	Steel: 3360 (1524) Aluminum: 2928 (1328)

\*All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

# **ATTACHMENT 5**

**HMB**

HMB Acoustics LLC

3 Cherry Tree Lane, Avon, CT 06001

860-677-5955

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**Noise Evaluation Report**

**Verizon CRAN HUB  
Stratford CRAN CT  
635 Honeyspot Road  
Stratford, CT**

**January 8, 2018**

**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**

Verizon is planning to install an 80 kw emergency back-up generator at 635 Honeyspot Road, Stratford, CT. The generator will be located inside a 38' x 17' equipment shelter. This shelter has two (2) wall mounted air-conditioner units used to cool the radio equipment inside the shelter. The equipment shelter will be located in a Commercial Noise Zone.

On July 10, 2017, I visited the site in order to perform an acoustical evaluation of the surrounding area. I found the area to be mixed commercial and residential. The average background noise level was 55-60 dBA. This report and the State of CT Noise Regulation 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. The purpose of this evaluation is to determine whether the generator and the HVAC units will comply with the 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.

## **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 am and 10 pm, local time.

Nighttime hours - The hours between 10 pm and 7 am, local time.

(Sec. 22a-69-1.1 (h&n).

**Exemptions -**

**“Noise created as a result of, or relating to an emergency.”**

**(Sec. 22a-69-1.8 (f)).**

The noise level from the proposed generator and 2 HVAC units operating simultaneously, and projected to the nearest commercial and residential property lines are shown In TABLE 1.

**TABLE 1**  
**Allowable Noise Levels (dBA)**  
**At Receptor Zones**

**Emitter Zone**

Commercial	Commercial	Residential/Day	Residential/Night
	62	55	45

**(Sec. 22a-69-3.5 (b)).**

**The Calculated dBA Noise Levels From The Proposed Generator  
And 2 HVAC Units Operating Simultaneously Have Been  
Projected To The Nearest Noise Receptor Property Lines**

Property Line	Commercial	Residential
North	47	33
South	50	43
East	-	53
West	48	47

## **Noise Evaluation Results**

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, operating simultaneously, meet the conditions for compliance as set forth in the noise regulations when projected to the nearest commercial and residential property lines.

## **ATTACHMENT 6**

February 7, 2018

*Via Certificate of Mailing*

Laura R. Hoydick, Mayor  
Town of Stratford  
2725 Main Street  
Stratford, CT 06615

**Re: Proposed Telecommunications Facility Modifications  
Off Honeyspot Road, Stratford, Connecticut**

Dear Mayor Hoydick:

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 for modifications to its existing telecommunications facility off Honeyspot Road in Stratford (the “Property”). Cellco operates a wireless telecommunications facility (“Facility”) at the Property consisting of antennas on the existing tower and equipment inside the building at the corner of Honeyspot Road and Columbus Avenue.

The proposed modifications would permit Cellco to establish a Centralized Radio Access Network (C-RAN) hub at the Property. The purpose of a C-RAN is to allow several existing cell sites in the 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 in the future. 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. The C-RAN hub would consist of a new 17' x 38' x 11' equipment shelter, housing the C-RAN equipment, including a new 80 kW natural gas-fueled back-up generator.

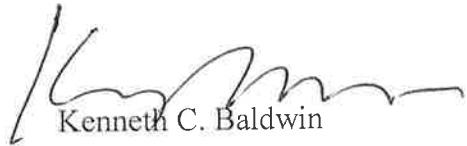
# Robinson+Cole

Laura R. Hoydick, Mayor  
February 7, 2018  
Page 2

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

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

February 7, 2018

*Via Certificate of Mailing*

Jay Habansky, Planning and Zoning Administrator  
Town of Stratford  
2725 Main Street  
Stratford, CT 06615

**Re: Proposed Telecommunications Facility Modifications  
Off Honeyspot Road, Stratford, Connecticut**

Dear Mr. Habansky:

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 for modifications to its existing telecommunications facility off Honeyspot Road in Stratford (the “Property”). Cellco operates a wireless telecommunications facility (“Facility”) at the Property consisting of antennas on the existing tower and equipment inside the building at the corner of Honeyspot Road and Columbus Avenue.

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17519998-v1

# Robinson + Cole

Jay Habansky, Planning and Zoning Administrator

February 7, 2018

Page 2

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

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

Sincerely,

A handwritten signature in black ink, appearing to read "K C Baldwin".

Kenneth C. Baldwin

Attachment

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

February 7, 2018

*Via Certificate of Mailing*

Becker LLC  
951 Beaker Dam Road  
Stratford, CT 06614

Re: **Proposed Telecommunications Facility Modifications  
Off Honeyspot Road, Stratford, 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 for modifications to its existing telecommunications facility off Honeyspot Road in Stratford (the “Property”). Cellco operates a wireless telecommunications facility (“Facility”) at the Property consisting of antennas on the existing tower and equipment inside the building at the corner of Honeyspot Road and Columbus Avenue.

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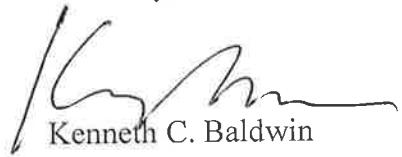
# Robinson + Cole

Becker LLC  
February 7, 2018  
Page 2

A copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

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

Sincerely,

A handwritten signature in black ink, appearing to read "K C Baldwin".

Kenneth C. Baldwin

Attachment

# **ATTACHMENT 7**

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

February 7, 2018

*Via Certificate of Mailing*

«Name\_and\_Address»

Re: **Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a Wireless Telecommunications Facility Off Honeyspot Road, Stratford, 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 for modifications to its existing telecommunications facility off Honeyspot Road in Stratford (the “Property”). Cellco operates a wireless telecommunications facility (“Facility”) at the Property consisting of antennas on the existing tower and equipment inside the building at the corner of Honeyspot Road and Columbus Avenue.

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February 7, 2018

Page 2

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**

**623-635 HONEYSPOT ROAD, STRATFORD, CONNECTICUT**

	<b>Property Address</b>	<b>Owner's and Mailing Address</b>
1.	50 Columbus Avenue	50-52 Columbus Avenue Associates LLC 392 Long Hill Road East Briarcliff Manor, NY 10510
2.	20 Garibaldi Avenue	Laurie and Albert Macisco 174 Porters Hill Road Trumbull, CT 06611
3.	32 Columbus Avenue	Margaret Behan 32 Columbus Avenue Stratford, CT 06615
4.	91 Columbus Avenue	Cecilia R. Orithuela and James J. Malin 91 Columbus Avenue Stratford, CT 06615
5.	599 Honeyspot Road	49 Deerfield Street LLC P.O. Box 433 Easton, CT 06612-0433
6.	600 Honeyspot Road	Mark Robert, David E. Emery and Randy S. Whitman 22 Way Street Milford, CT 06460
7.	626 Honeyspot Road	Dennis and Beverly Blake 20 Ripton Parish Lane Stratford, CT 06614
8.	640 Honeyspot Road	Beverly A. Blake 20 Ripton Parish Lane Stratford, CT 06614
9.	100 Browning Street	Hartley and Parker Ltd. Inc. 100 Browning Street Stratford, CT 06615

	<b>Property Address</b>	<b>Owner's and Mailing Address</b>
10.	25 Girabaldi Avenue	Stephen Adu and Ohemma Atuahene 25 Girabaldi Avenue Stratford, CT 06615
11.	665 Honeyspot Road	AG & KG Realty LLC 54 Fitch Street North Haven, CT 06473
12.	668 Honeyspot Road	Kim Phan Nguyen Trust 668 Honeyspot Road Stratford, CT 06615