

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 623	:	
PINE STREET, BRIDGEPORT,	:	
CONNECTICUT	:	SEPTEMBER 22, 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 623 Pine Street in Bridgeport, Connecticut (the “Property”).

II.    Factual Background

The Property is a 0.9-acre parcel in Bridgeport’s Light Industrial (I-L) zone district. The Property is surrounded by industrial uses, to the east and south, Interstate 95 to the north and residential uses to the west all within the I-L zone. See Attachment 1 – Site Vicinity and Site Schematic Maps (Aerial Photograph). Cellco currently maintains and operates a wireless

telecommunications facility at the Property consisting of antennas at the 110-foot level on the 250-foot tower. Cellco's radio equipment is located inside a large shelter constructed around the base of the tower. Cellco also maintains a back-up generator on the roof of the shelter. The tower is shared by T-Mobile, Clearwire and Sprint.

### 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 will install its C-RAN equipment inside the existing shelter and replace its existing generator with a new 80 kW generator, on the roof of the building. Project Plans for the C-RAN Facility are included in Attachment 2. Specifications for Cellco's 80 kW back-up generator are included in Attachment 3. A structural review letter confirming the building can support the replacement generator is included in Attachment 4.

### IV. Discussion

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

The Public Utility Environmental Standards Act (the "Act"), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications

towers in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the facility modifications described above, necessary to establish the C-RAN Facility will not involve a significant alteration to the physical and environmental characteristics of the Property. The new C-RAN equipment will be located inside the existing equipment shelter at the Property, and the new generator will replace the existing unit, in the same location on the roof. No ground disturbance of any kind is required to make these facility modifications.

2. Visual Effects

The installation of the replacement generator and air conditioning condenser on the roof will not have a significant impact on aesthetics in the area.

3. Noise

The operation of the new C-RAN equipment including the new back-up generator and four (4) 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 therefore, has not been provided as part of this filing.

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

On September 22, 2017, a copy of this Petition was sent to Bridgeport's Mayor, Joseph Ganim; Dennis Buckley, Bridgeport's Zoning Administrator; and Radio Communications Corp. ("RCC"), the owner of the tower and Property. Copies of the letters sent to Mayor Ganim, Mr. Buckley and RCC 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, 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 Bridgeport SW 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 Facility Modification
- Surrounding Verizon Wireless Facilities
- ~ Watercourse
- Waterbody
- Municipal Boundary

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

1,000 500 0 1,000  
 Feet

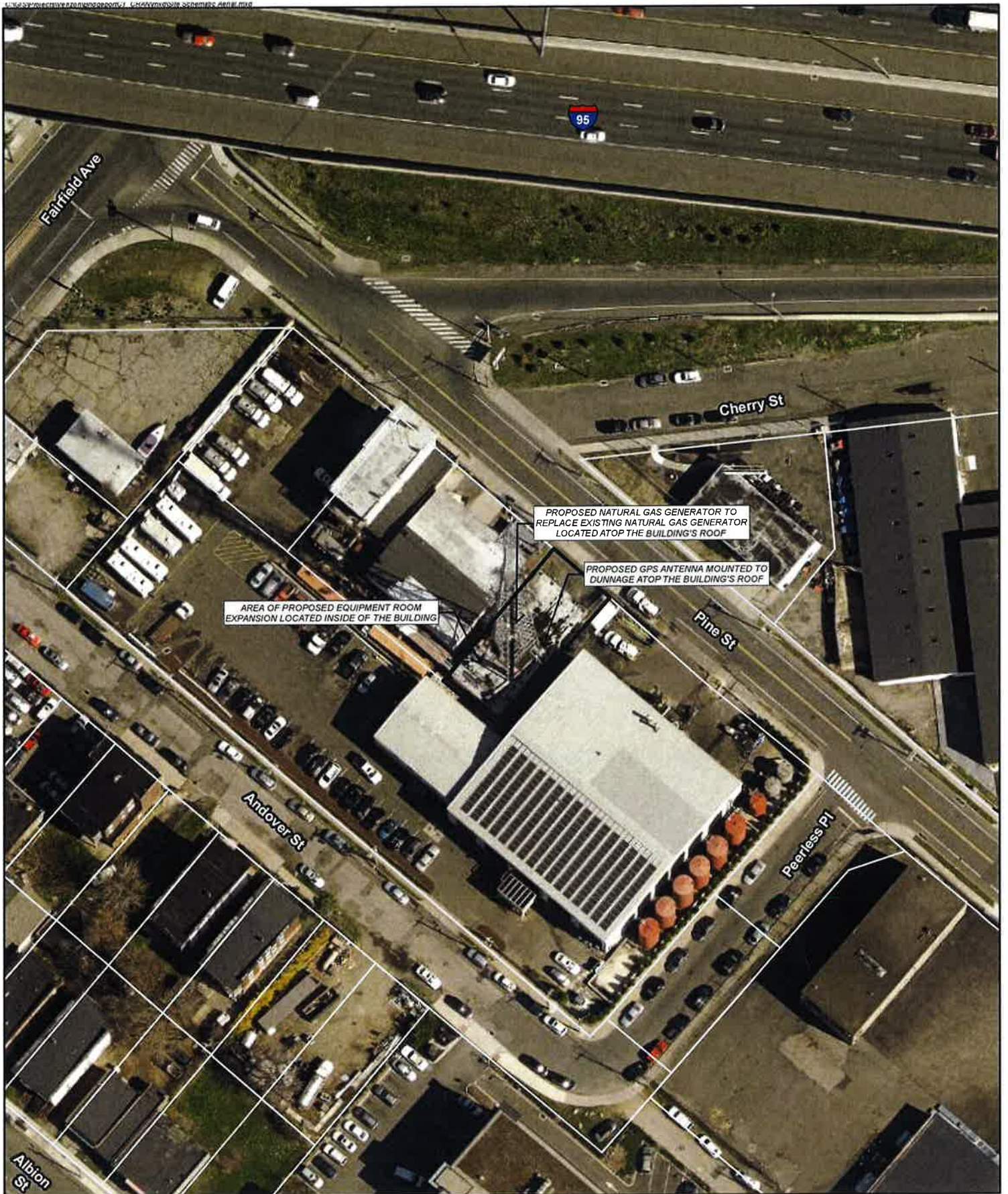
#### Site Vicinity Map

Proposed Wireless Telecommunications  
 Facility Modification  
 Bridgeport CRAN CT  
 Radio Comm. Corp.  
 623 Pine Street  
 Bridgeport, Connecticut



verizon







#### Legend

-  Approximate Subject Property
-  Approximate Parcel Boundary (CTDEEP GIS)

**Map Notes:**  
 Base Map Source: 2016 Aerial Photograph (CTECO)  
 Map Scale: 1 inch = 75 feet  
 Map Date: August 2017



#### Site Schematic

Proposed Wireless Telecommunications  
 Facility Modification  
 Bridgeport CRAN CT  
 Radio Comm. Corp.  
 623 Pine Street  
 Bridgeport, Connecticut

**verizon**



# **ATTACHMENT 2**

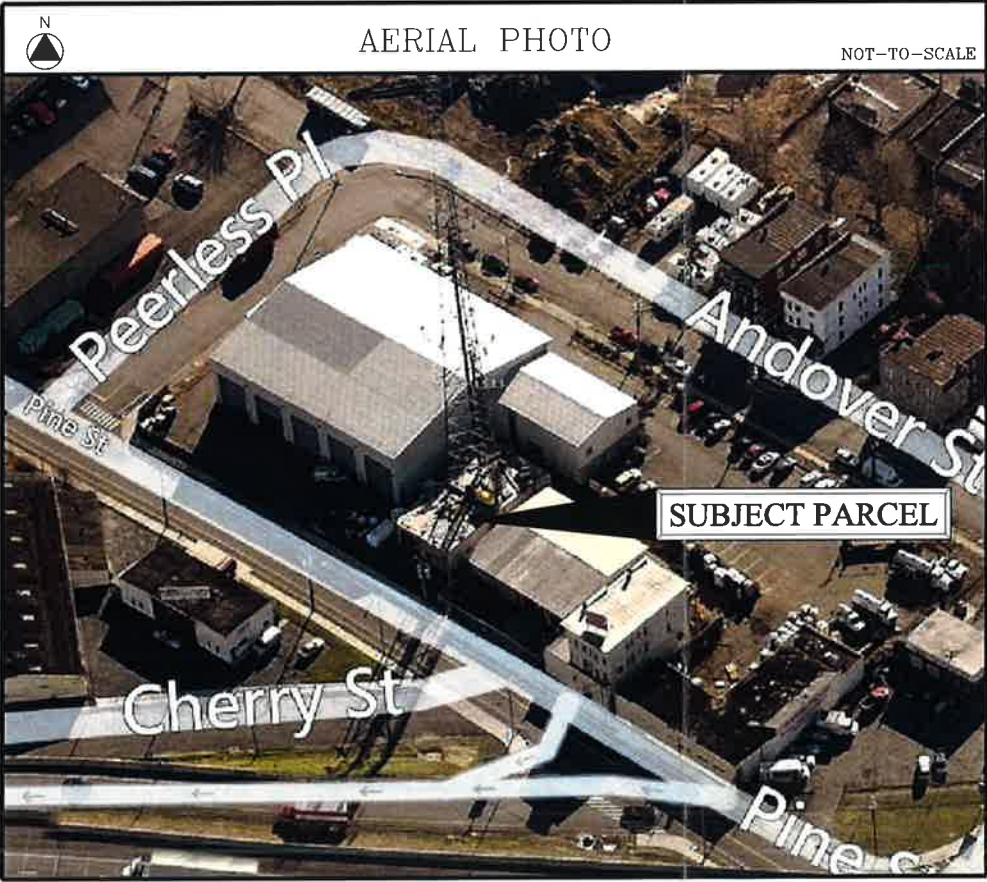


verizon

MOBILE SWITCHING CENTER

SITE NAME: BRIDGEPORT CT  
CPAN TELCO HUB

623 PINE STREET  
BRIDGEPORT, CT 06605



PROJECT DESCRIPTION

- EXPANSION OF AN EXISTING VERIZON EQUIPMENT ROOM INSIDE BUILDING FOR ADDITIONAL TELCO "CRAN" EQUIPMENT AND SUPPORTING CABINETS/RACKS

-

REPLACEMENT OF EXISTING NATURAL GAS GENERATOR ON ROOF WITH NEW GENERATOR

-

REPLACEMENT OF EXISTING HVAC CONDENSING UNITS ON ROOF WITH NEW UNITS

-

INSTALLATION OF (4) GPS ANTENNAS ON ROOF

-

EXISTING ELECTRICAL & TELCO/FIBER SERVICES TO BE UPGRADED TO THE VERIZON ROOM

PROJECT SUMMARY

SITE NAME:	BRIDGEPORT CT CRAN TELCO HUB
SITE ADDRESS:	623 PINE STREET BRIDGEPORT, CT 06605
PROPERTY OWNER & MAILING ADDRESS:	LILLIAN & ANDREW KNAPP 24 ROCKDALE RD. WEST HAVEN, CT 06516
PARCEL ID:	19-307-25
TOWER COORDINATES:	41° 09' 56.6" N    73° 13' 00.2" 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 ALEKSEY TYURIN - SAC (860) 933-1534
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	ABUTTER'S MAP
C-2	ROOF PLANS
C-3	WEST ELEVATION

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

NO.	DATE:	SUBMISSIONS
0	09.14.17	REVIEW

DRAWN BY:	CHECKED BY:
AS	DW

SITE NAME:

BRIDGEPORT CT

PROJECT DESCRIPTION:

CRAN TELCO HUB

PROJECT INFORMATION:

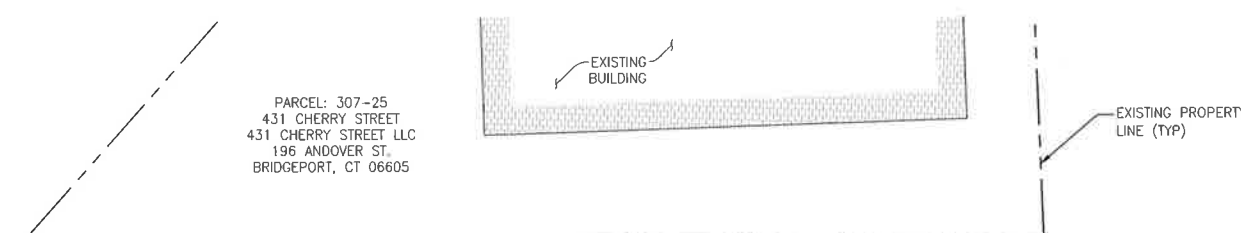
623 PINE STREET  
BRIDGEPORT, CT 06605

DRAWING TITLE:

TITLE SHEET

SHEET NUMBER:

T-1



EXISTING BUILDING

EXISTING PROPERTY  
LINE (TYP)

SUBJECT PARCEL: 307-25  
623 PINE STREET

EXISTING PROPERTY  
LINE (TYP)

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING  
PARKING AREA

**1**  
**C-1** **ABUTTER'S MAP**  
Scale: 1:150



LICENSURE

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

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DRAWN BY:  AS	CHECKED BY:  DW
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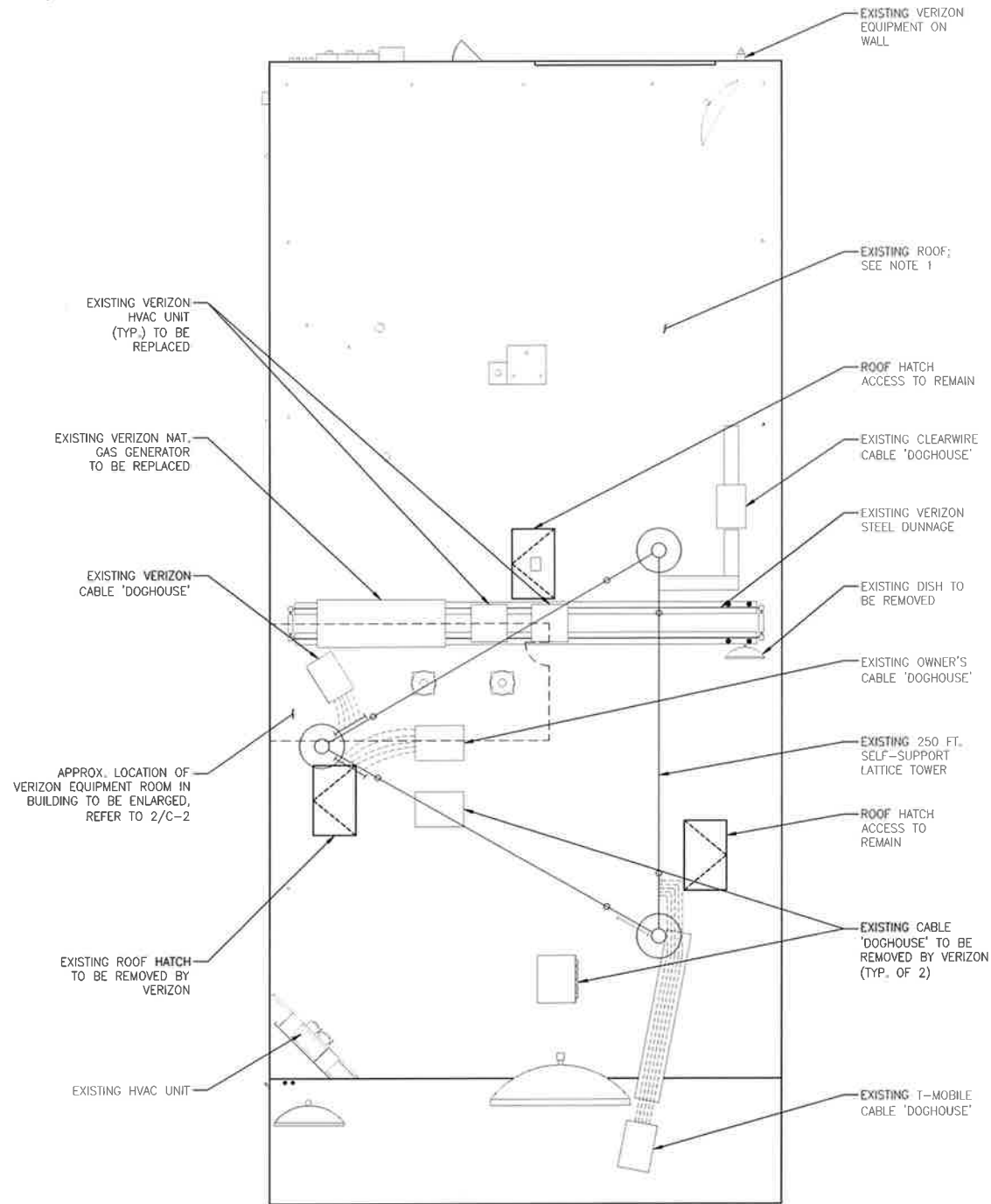
PROJECT DESCRIPTION:

**CRAN TELCO HUB**

DRAWING TITLE:

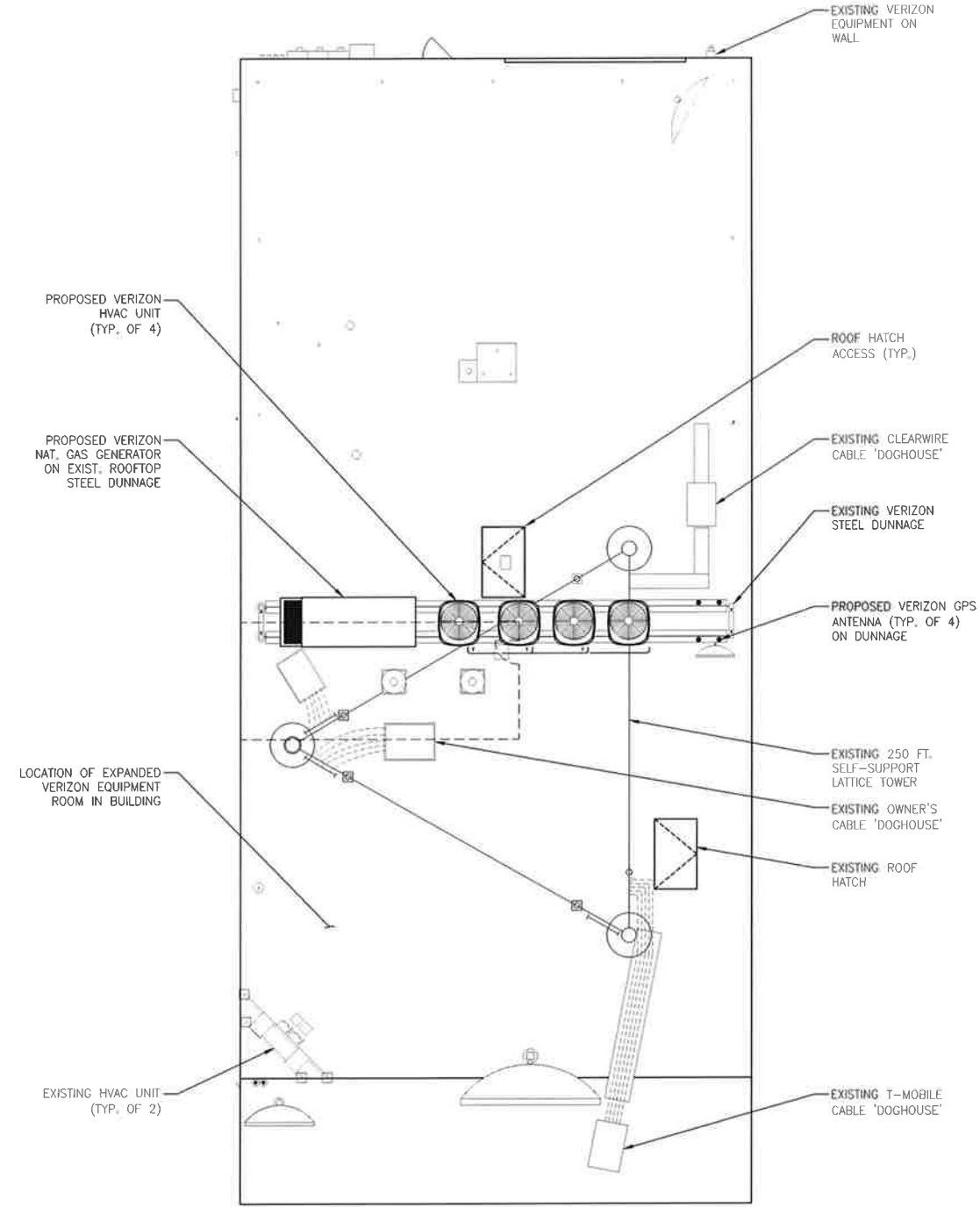
**ABUTTER'S MAP**

SHEET NUMBER: C-1



**1**  
**C-2** **ROOF PLAN - EXISTING**  
Scale: 3/16" = 1'-0"

NOTES:  
1. VERIZON TO REPLACE EXISTING OWNER'S ROOF AS PART OF THIS PROJECT.



**2**  
**C-2** **ROOF PLAN - PROPOSED**  
Scale: 3/16" = 1'-0"

**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

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DAVID WEINPAHL, P.E.  
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NO.	DATE	SUBMISSIONS
0	09.14.17	REVIEW

DRAWN BY:	CHECKED BY:
AS	DW

SITE NAME:  
**BRIDGEPORT CT**

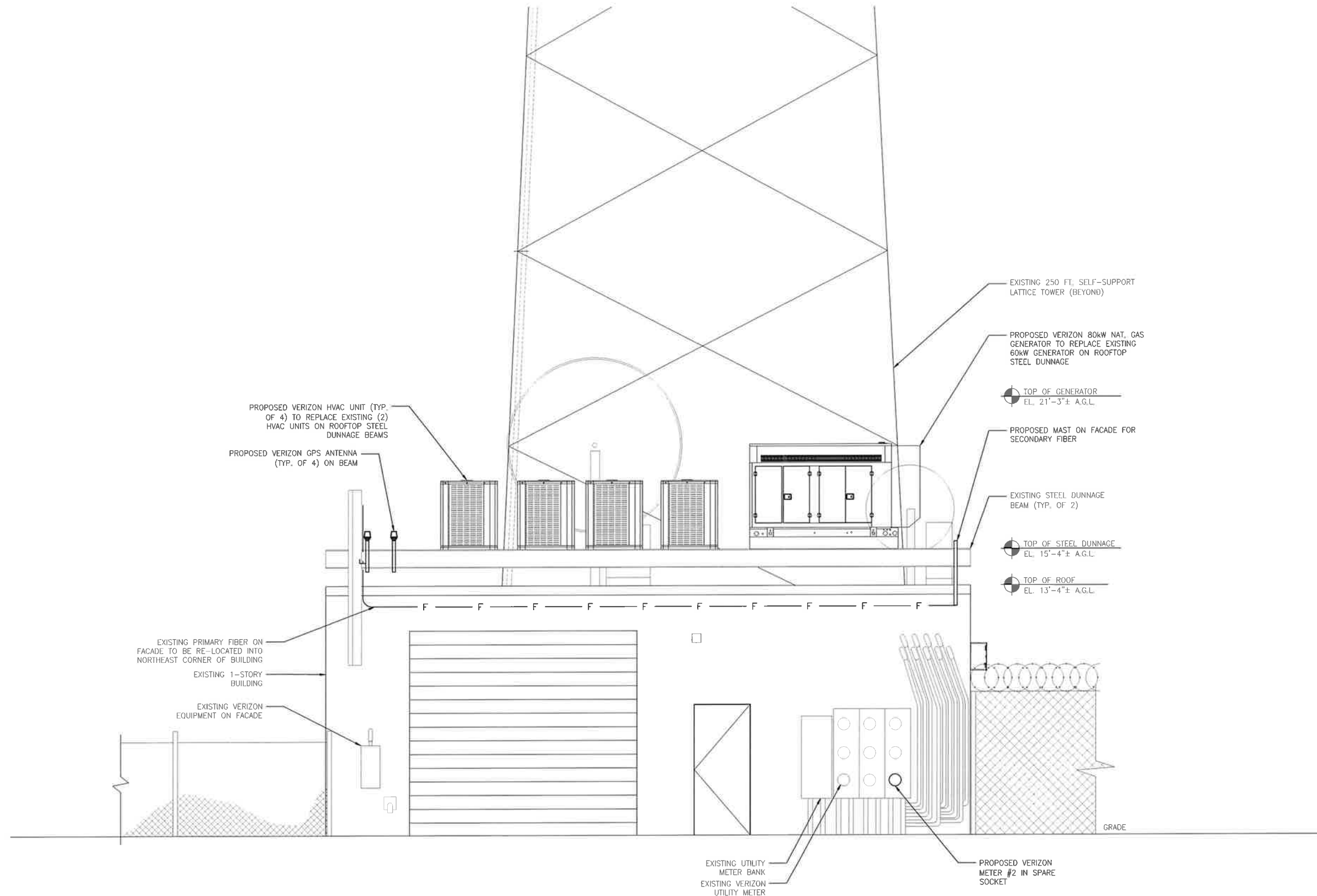
PROJECT DESCRIPTION:  
**CRAN TELCO HUB**

PROJECT INFORMATION:  
**623 PINE STREET  
BRIDGEPORT, CT 06605**

DRAWING TITLE:  
**ROOF PLANS**

SHEET NUMBER:  
**C-2**





1  
C-3  
NORTHEAST ELEVATION  
Scale: 3/8" = 1'-0"

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

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

LICENSURE

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

NO.	DATE	SUBMISSIONS
0	09.14.17	REVIEW

DRAWN BY:	CHECKED BY:
AS	DW

SITE NAME:  
**BRIDGEPORT CT**

PROJECT DESCRIPTION:  
**CRAN TELCO HUB**

PROJECT INFORMATION:  
**623 PINE STREET  
BRIDGEPORT, CT 06605**

DRAWING TITLE:  
**NORTHEAST  
ELEVATION**

SHEET NUMBER:  
**C-3**

# **ATTACHMENT 3**

# GENERAC®

# INDUSTRIAL POWER

## SG080

## 9.0L

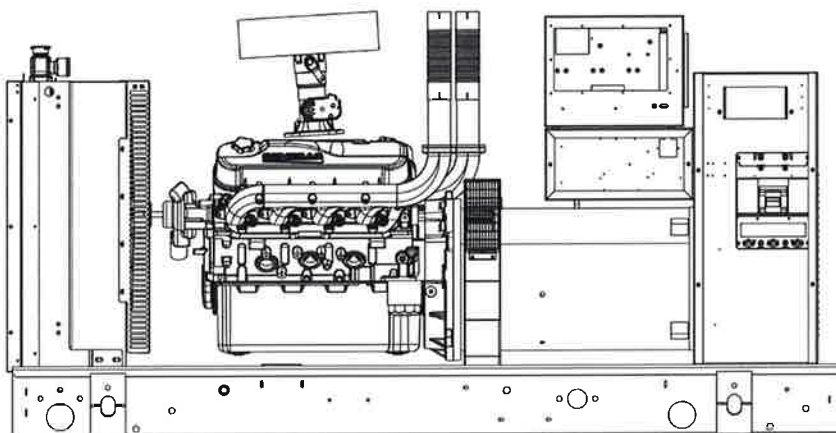
### Industrial Spark-Ignited Generator Set

EPA Certified Stationary Emergency

SG080 80 kW

Standby Power Rating  
**80 kW 100 kVA 60 Hz**

Prime Power Rating\*  
**72 kW 90 kVA 60 Hz**



\*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

American National Standards Institute



os hpd

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.



# SG080

## Standard Features

### ENGINE SYSTEM

#### General

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

#### Fuel System

- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line - NPT Connection

#### Cooling System

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

#### Engine Electrical System

- Battery charging alternator
- Battery Cables
- Battery Tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

### ALTERNATOR SYSTEM

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

### 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
- 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

## 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)

## SG080

### Configurable Options

#### ENGINE SYSTEM

- General
- Engine Block Heater
- Oil Heater
- Air Filter Restriction Indicator
- Stone Guard (Open Set Only)
- 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

#### 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

#### CIRCUIT BREAKER OPTIONS

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

#### ENCLOSURE

- Standard Enclosure
- 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

#### 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

### Engineered Options

#### ENGINE SYSTEM

- Coolant heater ball valves
- Fluid containment pans

#### ALTERNATOR SYSTEM

- 3rd Breaker Systems

#### GENERATOR SET

- Special Testing
- Battery Box

#### ENCLOSURE

- Motorized Dampers
- Enclosure Ambient Heaters

#### CONTROL SYSTEM

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

### 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 dated 2005-06-01, definitions for Prime Power (PRP) and Emergency Standby Power (ESP).

# SG080

## application and engineering data

### ENGINE SPECIFICATIONS

#### General

Make	Generac
Cylinder #	8
Type	V
Displacement - L (Cu In)	8.9L (540)
Bore - mm (in)	114.31 (4.5)
Stroke - mm (in)	107.15 (4.25)
Compression Ratio	10.5:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	5
Connecting Rods	Forged
Cylinder Head	Cast Iron
Cylinder Liners	No
Ignition	High Energy
Pistons	Aluminum Alloy
Crankshaft	Steel
Lifter Type	Hydraulic Roller
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	Yes

#### Engine Governing

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

#### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow spin-on cartridge
Crankcase Capacity - L (qts)	8.5 (8.0)

#### Cooling System

Cooling System Type	Pressurized Closed
Water Pump Flow - gpm (lpm)	26 (98)
Fan Type	Pusher
Fan Speed (rpm)	2330
Fan Diameter mm (in)	558 (22)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V

#### Fuel System

Fuel Type	Natural Gas, Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11" - 14" H2O

#### Engine Electrical System

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

### ALTERNATOR SPECIFICATIONS

Standard Model	390 mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	< 5%
Telephone Interference Factor (TIF)	< 50
Standard Excitation	Brushless
Bearings	Sealed Ball
Coupling	Direct Drive
Prototype Short Circuit Test	Yes

Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	+/- 0.25%



# SG080

# operating data

## POWER RATINGS

	Natural Gas		Propane Vapor	
Single-Phase 120/240 VAC @1.0pf	80 kW	Amps: 333	80 kW	Amps: 333
Three-Phase 120/208 VAC @0.8pf	80 kW	Amps: 278	80 kW	Amps: 278
Three-Phase 120/240 VAC @0.8pf	80 kW	Amps: 241	80 kW	Amps: 241
Three-Phase 277/480 VAC @0.8pf	80 kW	Amps: 120	80 kW	Amps: 120
Three-Phase 346/600 VAC @0.8pf	80 kW	Amps: 96	80 kW	Amps: 96

## STARTING CAPABILITIES (sKVA)

### sKVA vs. Voltage Dip

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%	369 (10.5)	25%	147.0 (4.2)
50%	633 (17.9)	50%	251.9 (7.1)
75%	855 (24.2)	75%	340.1 (9.6)
100%	1055 (29.9)	100%	419.9 (11.9)

\*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)	5757 (163.0)
Coolant Flow per Minute	gpm (lpm)	26 (98)
Coolant System Capacity	gal (L)	6.0 (22.7)
Heat Rejection to Coolant	BTU/hr	302,400
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.5

## COMBUSTION AIR REQUIREMENTS

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

## ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	127
Piston Speed	ft/min (m/min)	1275 (389)
BMEP	psi	103

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

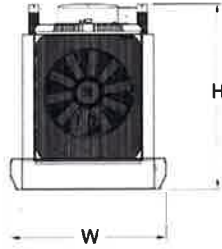
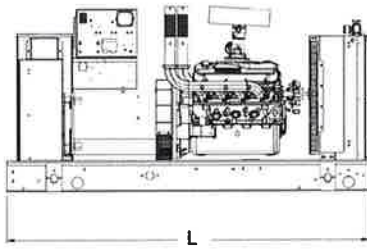
## EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	636 (18.0)
Maximum Recommended Back Pressure	inHg	1.5
Exhaust Temp (Rated Output)	°F (°C)	1100 (593)
Exhaust Outlet Size (Open Set)	in	2.5" I.D Flex x 2 (No Muffler)

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.

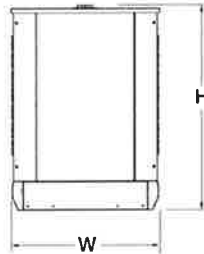
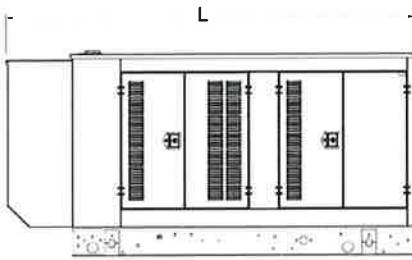
# SG080

## dimensions, weights, and sound levels



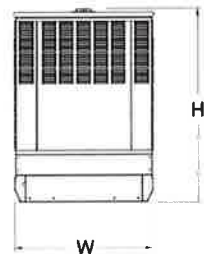
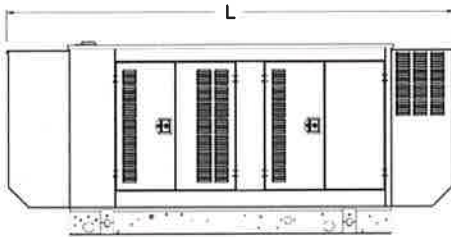
### OPEN SET (Includes Exhaust Flex)

L x W x H in (mm)	94.2 (2394) x 40 (1016) x 47.5 (1206)
Weight lbs (kg)	2064 (936.2)
Sound Level (dBA*)	83.5



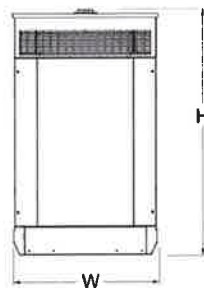
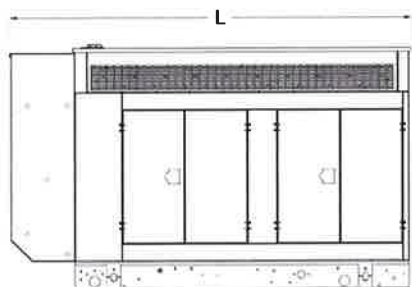
### STANDARD ENCLOSURE

L x W x H in (mm)	111.79 (2839.5) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 2708 (1228) Aluminum: 2413 (1094)
Sound Level (dBA*)	79.2



### 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: 2798 (1269.2) Aluminum: 2355 (1068)
Sound Level (dBA*)	74.8



### 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: 3022 (1370.8) Aluminum: 2431 (1103)
Sound Level (dBA*)	70.1

\*All measurements are approximate and for estimation purposes only. Sound levels measured at 23 ft (7 m) and does 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.

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • [generac.com](http://generac.com)

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# ATTACHMENT 4



John P. Romano  
Verizon Wireless- New England West  
Email: John.Romano@VerizonWireless.com

September 19, 2017

**RE: W.O. 8814.01 – BRIDGEPORT  
HUB SITE – BRIDGEPORT CRAN HUB  
623 PINE STREET  
BRIDGEPORT, CT 06605  
STRUCTURAL REVIEW**

Dear Mr. Romano,

Tectonic Engineering and Surveying Consultants, P.C. (TECTONIC) has performed a structural review of the proposed Verizon Wireless' installation at the site mentioned above. The assessment was performed to determine if the existing structure has sufficient capacity for the proposed installation.

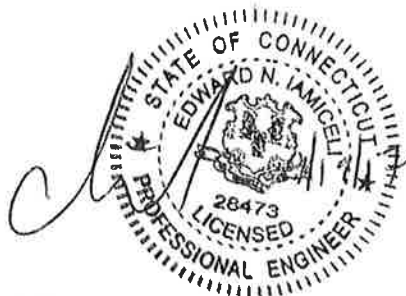
Our review indicates that the existing building structure is adequate to support the proposed installation. This review is based on the proposed installation and the most stringent criteria of the 2016 Connecticut State Building Code.

Contractor shall field verify existing conditions and recommendations as noted on the construction drawings. Notify the design engineer of any discrepancies prior to steel fabrication. Any further changes to the equipment configuration and location should be reviewed with respect to their effect on structural loads prior to implementation.

Should you have any questions, please do not hesitate to contact our office.

Sincerely,

**TECTONIC**



Edward N. Iamiceli, P.E.  
Sr. Project Manager

cc: David Weinpahl, P.E.- On-Air Engineering, LLC

# **ATTACHMENT 5**

## Noise Evaluation Report

Verizon Wireless  
Bridgeport SW CRAN CT  
623 Pine Street  
Bridgeport, CT

September 20, 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**

Verizon is planning to install an 80 kw emergency back-up generator (in an acoustical enclosure), and three (3) HVAC units at 623 Pine Street, Bridgeport, CT. The generator and the HVAC units will be located on the roof of the subject building.

The Noise Zone Emitter and the Noise Zone Receptors located in the surrounding parcels are all zoned Industrial. The surrounding streets are Pine Street (North); Andover Street (South); Peerless Place (East); and Fairfield Avenue (W). The CT Tpke is nearby to the North.

On August 19, 2017, I visited the area in order to perform an acoustical evaluation. The average background noise level was 55-60 dBA. The major source of noise was vehicular traffic. This report and the State of CT 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. The purpose of this evaluation is to determine whether the generator and 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 a.m. and 10 p.m., local time

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

Noise Zone Standards -

No person in a Class “C” Noise Zone (Industrial) shall emit noise exceeding the levels stated herein and applicable to adjacent Noise Zones. The allowable noise level from a Class “C” Noise Zone Emitter to a Class “C” Noise Zone Receptor is 70 dBA.  
(Sec. 22a-d69-3.5(a).

The noise level from the proposed generator and 3 HVAC units operating simultaneously, and projected to the nearest abutter premises are shown in TABLE 1.

TABLE 1  
The Calculated dBA Noise Levels From The Proposed Generator  
And 3 HVAC Units Operating Simultaneously Have Been  
Projected To The Nearest Noise Receptor Abutters

Abutter	Industrial
North	55
South	62
East	63
West	58

### **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 the HVAC units running simultaneously, meet the conditions for compliance as set forth in the noise regulations when projected to the Industrial Noise Zone Abutters.

# **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

September 22, 2017

*Via Certificate of Mailing*

Joseph P. Ganim, Mayor  
City of Bridgeport  
Margaret E. Morton Government Center  
999 Broad Street  
Bridgeport, CT 06604

**Re: Proposed Modification of an Existing Telecommunications Facility at 623 Pine Street, Bridgeport, Connecticut**

Dear Mayor Ganim:

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 623 Pine Street in Bridgeport (the "Property"). Cellco intends to install a Centralized Radio Access Network ("C-RAN") at the Property. As a part of these modifications, Cellco will install additional equipment inside the existing building at the base of the tower, replace the existing back-up generator on the roof of the building and install additional HVAC equipment also on the roof of the building.

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

17117668-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

September 22, 2017

*Via Certificate of Mailing*

Dennis Buckley, Zoning Administrator  
City of Bridgeport  
45 Lyon Terrace  
Bridgeport, CT 06604

Re: **Proposed Modification of an Existing Telecommunications Facility at 623 Pine Street, Bridgeport, Connecticut**

Dear Mr. Buckley:

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 623 Pine Street in Bridgeport (the "Property"). Cellco intends to install a Centralized Radio Access Network ("C-RAN") at the Property. As a part of these modifications, Cellco will install additional equipment inside the existing building at the base of the tower, replace the existing back-up generator on the roof of the building and install additional HVAC equipment also on the roof of the building.

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

17117823-v1

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

September 22, 2017

*Via Certificate of Mailing*

Andrew and Lillian Knapp  
Radio Communications Corp.  
24 Rockdale Road  
West Haven, CT 06516

Re: **Proposed Modification of an Existing Telecommunications Facility at 623 Pine Street, Bridgeport, Connecticut**

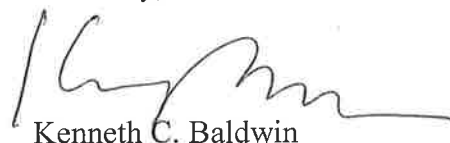
Dear Mr. and Mrs. Knapp:

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 623 Pine Street in Bridgeport (the "Property"). Cellco intends to install a Centralized Radio Access Network ("C-RAN") at the Property. As a part of these modifications, Cellco will install additional equipment inside the existing building at the base of the tower, replace the existing back-up generator on the roof of the building and install additional HVAC equipment also on the roof of the building.

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

17117861-v1

# **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

September 22, 2017

*Via Certificate of Mailing*

«Name\_and\_Address»

**Re: Proposed Modification of an Existing Telecommunications Facility at 623 Pine Street, Bridgeport, 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 623 Pine Street in Bridgeport (the “Property”). Cellco intends to install a Centralized Radio Access Network (“C-RAN”) at the Property. As a part of these modifications, Cellco will install additional equipment inside the existing building at the base of the tower, replace the existing back-up generator on the roof of the building and install additional HVAC equipment also on the roof of the building. A copy of the Petition is attached for your review.

This notice is being sent to you because you are listed on the City’s 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.

September 22, 2017  
Page 2

Sincerely,

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

Kenneth C. Baldwin

Attachment

**CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS**

**ABUTTERS LIST**

**623 PINE STREET  
BRIDGEPORT, CONNECTICUT**

	<b><u>Property Address</u></b>	<b><u>Owner and Mailing Address</u></b>
1.	645 Pine Street	645 Pine Street LLC c/o William Malone 146 Andover Street Bridgeport, CT 06605
2.	146 Andover Street	Andover Street Associates LLC 146 Andover Street Bridgeport, CT 06605
3.	431 Cherry Street	431 Cherry Street LLC 146 Andover Street Bridgeport, CT 06605