### Robinson+Cole

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

March 31, 2015

Melanie A. Bachman Acting Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Re: Notice of Exempt Modification - Facility Modification

11 Filbert Street, Norwalk, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains twelve (12) wireless telecommunications antennas (six (6) at the 103-foot level and six (6) at the 111-foot level) on an existing 130-foot water tank at 11 Filbert Street in Norwalk (the "Property"). The water tank is owned by First Taxing District of the City of Norwalk. The Siting Council approved Cellco's use of the water tank in 1993 and retains jurisdiction over this structure. Cellco now intends to modify its facility by replacing nine (9) of its existing antennas with three (3) model X7C-FRO-660-VRO, 700 MHz antennas; three (3) model HBXX-6517DS-VTM, 1900 MHz antennas; and three (3) model HBXX-6517DS-VTM, 2100 MHz antennas, all at the same level on the tank. Cellco also intends to install three (3) remote radio heads ("RRHs") behind its 1900 MHz antennas and two (2) HYBRIFLEX<sup>TM</sup> antenna cables. Included in Attachment 1 are specifications for Cellco's replacement antennas, RRHs and HYBRIFLEX<sup>TM</sup> cables.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Harry Rilling, Mayor for the City of Norwalk. A copy of this letter is also being sent to First Taxing District, the owner of the water tank and the Property.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

13532758-v1

## Robinson+Cole

Melanie A. Bachman March 31, 2015 Page 2

- 1. The proposed modifications will not result in an increase in the height of the existing structure. Cellco's replacement antennas will be located at the 103-foot and 111-foot levels on the 130-foot water tank.
- 2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A General Power Density table for Cellco's modified facility is included in Attachment 2.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The water tank and its foundation can support Cellco's proposed modifications. (See Structural Evaluation Letter included in <u>Attachment 3</u>).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

Enclosures Copy to:

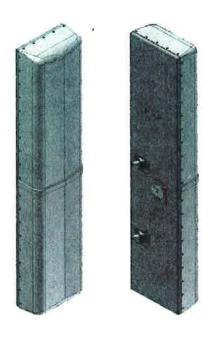
Harry Rilling, Norwalk Mayor First Taxing District Tim Parks

# **ATTACHMENT 1**



#### X7C-FRO-660-V

X-Pol Antenna, 698-896MHz, Fast-Roll-Off 60° H-Beam **RET/MET** 



- Designed to improve SNR
- Greatly increases LTE data rates
- Broadband radiator
- Macro Cell, high gain antenna
- Suitable for LTE/CDMA/UMTS/GSM
- AISG 2.0 RET or manual MET tilt control

#### **Electrical Specifications**

| Frequency Band, MHz                        | 698-824 | 824-896  |
|--|---------|----------|
| Horizontal Beamwidth, 3dB points           | 62      | 58       |
| Gain, dBi                                  | 15.9    | 16.0     |
| Vertical Beamwidth, 3dB points             | 12.0    | 10.5     |
| Front-to-Back at 180°, dB                  | >       | 28       |
| Upper Sidelobe Suppression, Typical, dB    | <-      | 18       |
| Polarization                               | +/-     | -45°     |
| Electrical Downtilt                        | 0-10° d | or 4-14° |
| VSWR/Return Loss, dB, Maximum              | 1.5:1   | /14.0    |
| Isolation Between Ports, dB, Mirnimum      | -:      | 28       |
| Intermodulation (2x20w), IM3, dBc, Maximum | -1      | 50       |
| Impedance, ohms                            | 5       | 50       |
| Maximum Power Per Connector, CW            | 5       | 00       |



#### **Mechanical Specifications**

#### X7C-FRO-660-V

X-Pol Antenna, 698-896MHz, Fast-Roll-Off 60° H-Beam **RET/MET** 

Dimensions, Length/Width/Depth

Connector (Quantity) Type

**Connector Torque** 

Connector Location

Antenna Weight Bracket Weight

Standard Bracket Kit

Mechanical Downtilt Range

**Radome Material** 

Wind Survival

Front Wind Load

Equivalent Flat Plate

72.0/14.6/8.0 in (1829/372/204 mm)

(2) 7-16 DIN Female

220-265 lbf-in (25-30 N-m)

Back

35.0 lbs

13.2 lbs (6.0 kg)

CSS P/N 919011

0-12°

Ultra High Strength Luran, UV Stabilized, ASTM D1925

150 mph (241 km/h)

205.39 lbf (913.65 N) @100mph

4.09 sq-ft (c=2) @ 100mph

#### **RET Information**

Model

CSS-RET-200

**Mounting Location** 

Rear of Antenna

Weight

1.2 lb (0.54 kg)

**Communication Standard** 

**AISG 2.0** 

**Control System** 

CSS-PCU-220



#### **Order Information**

| Model           | Description  |
|-----------------|--|
| X7C-FRO-660-VR0 | Antenna with manual RET adjust electrical downtilt 0-10° |
| X7C-FRO-660-VR4 | Antenna with manual RET adjust electrical downtilt 4-14° |
| X7C-FRO-660-VM0 | Antenna with remote MET adjust electrical downtilt 0-10° |
| X7C-FRO-660-VM4 | Antenna with remote MET adjust electrical downtilt 4-14° |

#### **Optional Bracket Kit**

919036

Bracket Kit, 2-Point, 12 deg D-tilt, For 4.5" OD Pole

# Product Specifications





Andrew® Quad Port Teletilt® Antenna, 1710-2180 MHz, 65° horizontal beamwidth, RET compatible



#### **Electrical Specifications**

| Frequency Band, MHz                         | 1710-1880  | 1850-1990  | 1920-2180  |
|---|------------|------------|------------|
| Gain by all Beam Tilts, average, dBi        | 18.5       | 18.6       | 18.8       |
| Gain by all Beam Tilts Tolerance, dB        | ±0.4       | ±0.3       | ±0.4       |
|   | 0° 18.4    | 0 °   18.4 | 0 °   18.7 |
| Gain by Beam Tilt, average, dBi             | 3°   18.7  | 3 0 { 18.7 | 3°   18.9  |
|   | 6 °   18.4 | 6° 18.5    | 6° 18.6    |
| Beamwidth, Horizontal, degrees              | 67         | 66         | 65         |
| Beamwidth, Horizontal Tolerance, degrees    | ±2.4       | ±1.7       | ±2.9       |
| Beamwidth, Vertical, degrees                | 5.0        | 4.7        | 4.4        |
| Beamwidth, Vertical Tolerance, degrees      | ±0.3       | ±0.3       | ±0.3       |
| Beam Tilt, degrees                          | 0-6        | 0-6        | 0-6        |
| USLS, dB                                    | 18         | 19         | 19         |
| Front-to-Back Total Power at 180° ± 30°, dB | 25         | 26         | 26         |
| CPR at Boresight, dB                        | 22         | 23         | 22         |
| CPR at Sector, dB                           | 10         | 10         | 9          |
| Isolation, dB                               | 30         | 30         | 30         |
| VSWR   Return Loss, dB                      | 1.4   15.6 | 1.4   15.6 | 1,4   15,6 |
| PIM, 3rd Order, 2 x 20 W, dBc               | -153       | -153       | -153       |
| Input Power per Port, maximum, watts        | 350        | 350        | 350        |
| Polarization                                | ±45°       | ±45°       | ±45°       |

<sup>\*</sup>Values calculated using NGMN Alliance N-P-BASTA v9.6

#### **Mechanical Specifications**

Color | Radome Material Light gray | PVC, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 668.0 N @ 150 km/h

150.2 lbf @ 150 km/h

Wind Speed, maximum

241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D

1903.0 mm x 305.0 mm x 166.0 mm | 74.9 in x 12.0 in x 6.5 in

Net Weight 19.5 kg | 43.0 lb

Model with factory installed AISG 2.0 RET HBXX-6517DS-A2M

# RRH1900 2X60 - HW CHARACTERISTICS PCS RF MODULES

LA6.0.1/13.3

#### 4 External User Alarms AISG 2.0 for RET/TMA 7/16 DIN (top mounted) 2 Branch RX - LA6.0.1 4 Branch RX - LR13.3 Internal Smart Bias-T 2 CPRI Rate 3 Ports GR487 Compliance RRH2x60 -48VDC 2x60W 20MHz 2 TX × 1900A HW version 1900 HW version Instantaneous Bandwidth RF Output Power **External Alarms** RF Connectors Environmental Monitor Ports **Transmitter CPRI Ports** Receiver Features Power

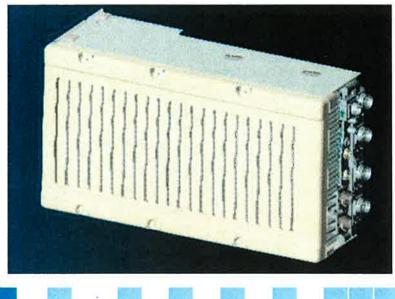




# LR14.3

# **NEW PCS RF MODULES FOR VZW RRH2X60 - HW CHARACTERISTICS**

|  | RRH2x60                     |
|--|-----------------------------|
| RF Output Power                            | 2x60W (4x30W HW Ready)      |
| Instantaneous Bandwidth                    | 60MHz                       |
| Target Reliability<br>(Annual Return Rate) | <2%                         |
| Receiver                                   | 4 Branch Rx                 |
| Features                                   | AISG 2.0 for RET/TMA        |
| Power                                      | -48VDC                      |
|  | Internal Smart Bias-T       |
| CPRI Ports                                 | 2 CPRI Rate 5 Ports         |
| External Alarms                            | 4 External User Alarms      |
| Monitor Ports                              | TX, RX                      |
| Environmental                              | GR487 Compliance            |
| RF Connectors                              | 7/16 DIN (downward facing)  |
| Dimensions                                 | 22"(h) x 12"(w)x 9.4" (d)** |
| Weight                                     | 55lb**                      |
|  |                             |



Micatel-Lucent 1 \*\*- Includes solar shield but not mounting brackets (8 lbs.)

### 2000

#### Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

#### Features/Renefits

- Aluminum corrugated armor with outstanding bending characteristics minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding Eliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design Decreases tower loading
- Robust cabling Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket Ensures long-lasting cable protection

Corrugated Aluminum



Figure 1: HYBRIFLEX Series

#### Technical Specifications

Outer Conductor Armor.

| lacket                 | Polyethylene, Pt  | [mm (in)]                                   | 50.3 (1.98)            |
|------------------------|---|---|------------------------|
| UV-Protection:         | Individual and External Jacket  |   | Yes                    |
| Merca and the former   | Ne i  |   |                        |
| Weight, Approximate    |   | [kg/m (lb/ft)]                              | 1 9 (1.30)             |
| Minimum Bending Ri     | adius, Single Bending   | [mm (in)]                                   | 200 (8)                |
| Minimum Bending Ri     | adius, Repeated Bending   | (mm (in))                                   | 500 (20)               |
| Recommended/Maxir      |   | [m (ft)]                                    | 1.0 / 1.2 (3.25 / 4.0) |
| Strin filal envoyers a | C Carlo Constant  |   |                        |
| DC-Resistance Outer    | Conductor Armor   | $[\Omega/\text{km} (\Omega/1000\text{ft})]$ | 068 (0.205)            |
| DC-Resistance Power    | Cable, 8 4mm² (8AWĞ)  | [Ω/km (Ω/1000ft)]                           | 2 1 (0.307)            |
| Fra Charlesona         | (b)   |   |                        |
| Version                |   |   | Single-mode OM3        |
| Quantity, Fiber Count  | 1   |   | 16 (8 pairs)           |
| Core/Clad              |   | (µm)  | 50/125                 |
| Primary Coating (Acr   | ylatei  | [µm]  | 245                    |
| Buffer Diameter, Non   | ninal   | [µm]  | 900                    |
| Secondary Protection   | , Jacket, Nominal   | (mm (in))                                   | 2 0 (0 08)             |
| Minimum Bending Ra     | adius   | (mm (in))                                   | 104 (4.1)              |
| Insertion Loss @ wave  | elength 850nm   | dB/km                                       | 3.0                    |
| Insertion Loss @ wave  | elength 1310nm  | dB/km                                       | 1.0                    |
| Standards (Meets or i  | exceeds)  |   | UL34-V0_UL1666         |
|                        |   |   | RoHS Compliant         |
| REPORT VANIER          | TURITOR   |   |                        |
| Size (Power)           |   | [mm (AWG)]                                  | 8 4 (8)                |
| Quantity, Wire Count   | (Power)   |   | 16 (8 pairs)           |
| Size (Alarm)           | - Desired Control of the Control of | [mm (AWG)]                                  | 0.8 (18)               |
| Quantity, Wire Count   | (Alarm)   |   | 4 (2 pairs)            |

|                                  |                        | no. :2 Compilant  |
|----------------------------------|------------------------|---|
| 30 to very while a roardes       |                        |   |
| Size (Power)                     | [mm (AWG)]             | 8 4 (8)   |
| Quantity, Wire Count (Power)     |                        | 16 (8 pairs)  |
| Size (Alarm)                     | [mm (AWG)]             | 0.8 (18)  |
| Quantity, Wire Count (Alarm)     |                        | 4 (2 pairs)   |
| Type                             |                        | UV protected  |
| Strands                          |                        | 19  |
| Primary Jacket Diameter, Nominal | [mm (in <sub>i</sub> ) | 6.8 (0.27)  |
| Standards (Meets or exceeds)     |                        | NFPA 130, ICEA S-95-658<br>UL Type XHHW-2, UL 44<br>UL-LS Limited Smoke, UL VW-1<br>IEEE-383 (1974), IEEE1202/FT4<br>RoHS Compliant |
| FRICE OF BEILE                   |                        |   |

 Installation Temperature
 [°C (°F)]
 -40 to +65 (-40 to 149)

 Operation Temperature
 [°C (°F)]
 -40 to +65 (-40 to 149)

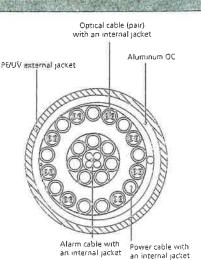
This data is provisional and subject to change

RFS The Clear Choice®

H8158-1-08U8-58J18

3ev: 21

Print Date: 27.5.2012



Pigure 3: Construction Detail

# **ATTACHMENT 2**

Site Name: EAST NORWALK, CT **Cumulative Power Density** 

| Operator       | Operating<br>Frequency | Number<br>of Trans.  | ERP Per<br>Trans. | Total   | Distance to<br>Target | Calculated<br>Power<br>Density | Maximum<br>Permissable<br>Exposure* | Fraction<br>of MPE |
|----------------|------------------------|--|-------------------|---------|-----------------------|--------------------------------|-------------------------------------|--------------------|
|                | (MHz)                  |  | (watts)           | (watts) | (feet)                | (mW/cm^2)                      | (mW/cm^2) (mW/cm^2)                 | (%)                |
| VZW PCS        | 1970                   | -  | 1614              | 1614    | 103                   | 0.0547                         | 1.0                                 | 5.47%              |
| VZW Cellular   | 698                    | 0  | 409               | 3681    | 103                   | 0.1248                         | 0.57933333                          | 21.54%             |
| VZW AWS        | 2145                   | -  | 1750              | 1750    | 103                   | 0.0593                         | 1.0                                 | 5.93%              |
| NZW 700        | 746                    | 1  | 807               | 807     | 103                   | 0.0274                         | 0.0274 0.49733333                   | 2.50%              |
| Takal Damester |                        | Control of the Party of the Par |                   |         |                       |                                |                                     | ,0,, 00            |

Total Percentage of Maximum Permissible Exposure

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used,

# **ATTACHMENT 3**



#### Centered on Solutions

March 30, 2015

Mr. Steve Schadler Verizon Wireless 99 East River Drive East Hartford, CT 06108

Re: Structural Evaluation Letter ~ Antenna Upgrade Verizon Wireless Site Ref ~ East Norwalk Filbert Road Norwalk, CT 06851

Centek Project No. 14309.018 Revision 1

Dear Mr. Schadler,

Centek Engineering, Inc. has reviewed the proposed Verizon Wireless antenna upgrade at the above referenced site. The purpose of the review is to determine the structural adequacy of the existing 135-ft +/- tall water tank structure to support the proposed modified antenna configuration. The existing installation consists of two (2) antenna pipe mounts per sector (total of six) mounted to the legs of the existing water tank. The review considered the effects of wind load, dead load, ice load and seismic forces in accordance with the 2005 Connecticut State Building Code as amended by the 2009 Connecticut State Supplement.

The existing, proposed, and future Verizon Wireless loads considered in this analysis consist of the following:

#### Verizon (Existing to Remain – Alpha Sector):

Antennas: One (1) Antel BXA-80063-6BF panel antenna, one (1) Alcatel-Lucent RRH2x40-AWS Remote Radio Head, one (1) Alcatel-Lucent RRH2x40-07-U Remote Radio Head and one (1) RFS DB-E1-3B-8AB-0Z sector distribution box pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

Coax: Six (6) 1-5/8-in dia. coaxial cables and one (1) 1-1/4-in dia. Hybriflex Fiber jumper cable routed within existing cable tray system.

#### Verizon (Existing to Remove – Alpha Sector):

Antennas: One (1) Antel BXA-171063-8BF panel antenna, one (1) Antel BXA-171063-12BF panel antenna and one (1) SwedCom SLCP 2x6015 panel antenna pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

#### Verizon (Proposed - Alpha Sector):

Antennas: One (1) JMA X7C-FRO-660 panel antenna, two (2) Andrew HBXX-6517DS panel antennas, one (1) Alcatel-Lucent RRH2x60-PCS Remote Radio Head and one (1) RFS DB-E1-2C-4AB-OZ sector distribution box to be mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

<u>Cables:</u> One (1) 1-1/4-in dia. Hybriflex Fiber jumper cable to be routed within existing cable tray system.

CENTEK engineering, INC. Structural Evaluation Letter Verizon Wireless ~ East Norwalk Filbert Road Norwalk, CT 06851

#### Verizon (Existing to Remain – Beta Sector):

Antennas: One (1) Antel BXA-80063-6BF panel antenna, one (1) Alcatel-Lucent RRH2x40-AWS Remote Radio Head, one (1) Alcatel-Lucent RRH2x40-07-U Remote Radio Head and one (1) RFS DB-E1-3B-8AB-0Z sector distribution box pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

Coax: Six (6) 1-5/8-in dia. coaxial cables and one (1) 1-1/4-in dia. Hybriflex Fiber jumper cable routed within existing cable tray system.

#### Verizon (Existing to Remove – Beta Sector):

<u>Antennas:</u> Two (2) Antel BXA-171063-8BF panel antennas and one (1) SwedCom SLCP 2x6015 panel antenna pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

#### Verizon (Proposed – Beta Sector):

Antennas: One (1) JMA X7C-FRO-660 panel antenna, two (2) Andrew HBXX-6517DS panel antennas, one (1) Alcatel-Lucent RRH2x60-PCS Remote Radio Head and one (1) RFS DB-E1-2C-4AB-0Z sector distribution box to be mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

<u>Cables:</u> One (1) 1-1/4-in dia. Hybriflex Fiber jumper cable to be routed within existing cable tray system.

#### Verizon (Existing to Remain – Gamma Sector):

Antennas: One (1) Antel BXA-80063-6BF panel antenna, one (1) Alcatel-Lucent RRH2x40-AWS Remote Radio Head, one (1) Alcatel-Lucent RRH2x40-07-U Remote Radio Head and one (1) RFS DB-E1-3B-8AB-0Z sector distribution box pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

Coax: Six (6) 1-5/8-in dia. coaxial cables and one (1) 1-1/4-in dia. Hybriflex Fiber jumper cable routed within existing cable tray system.

#### Verizon (Existing to Remove – Gamma Sector):

Antennas: Two (2) Antel BXA-171063-8BF panel antennas and one (1) Antel BXA-70063-6CF panel antenna pipe mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

#### Verizon (Proposed – Gamma Sector):

Antennas: One (1) JMA X7C-FRO-660 panel antenna, two (2) Andrew HBXX-6517DS panel antennas, one (1) Alcatel-Lucent RRH2x60-PCS Remote Radio Head and one (1) RFS DB-E1-2C-4AB-0Z sector distribution box to be mounted to the legs of the water tank with RAD center elevations of 103-ft +/- AGL and 111-ft +/- AGL.

<u>Cables:</u> One (1) 1-1/4-in dia. Hybriflex Fiber jumper cable to be routed within existing cable tray system.

CENTEK engineering, INC. Structural Evaluation Letter Verizon Wireless ~ East Norwalk Filbert Road Norwalk, CT 06851

#### Verizon (Existing):

<u>Misc.:</u> One (1) RFS DB-T1-6Z-8AB-0Z main distribution façade mounted to the existing Verizon Wireless equipment shelter.

<u>Cables:</u> One (1) 1-5/8-in dia. Hybriflex Fiber main cable routed from the existing Verizon Wireless Equipment shelter to the proposed main distribution box.

#### Verizon (Proposed):

<u>Misc.</u>: One (1) RFS DB-T1-6Z-8AB-0Z main distribution to be façade mounted to the existing Verizon Wireless equipment shelter.

<u>Cables:</u> One (1) 1-5/8-in dia. Hybriflex Fiber main cable to be routed from the existing Verizon Wireless Equipment shelter to the proposed main distribution box.

The proposed antenna installation meets the requirements of the 2005 Connecticut State Building Code considering the basic wind speed (3-second gust) of 105 mph as required in Appendix K of the Connecticut supplement per Table 1609.3.1 considering Exposure Category C. Our findings are based on the assumption that the hosting structure, all structural members and appurtenances were properly designed, detailed, fabricated, installed and have been properly maintained since erection.

In conclusion, the proposed Verizon antenna upgrade will not negatively impact the structural integrity of the existing antenna support structure or host building. If there are any questions regarding this matter, please feel free to call.

Respectfully, Submitted by:

Carlo F. Centore, PE

Principal ~ Structural Engineer