



## **Public Facilities Committee Report**

### **City of Newton** **In City Council**

**Thursday, December 17, 2020**

Present: Councilors Leary (Chair), Kelley, Crossley, Gentile, Danberg and Kalis

Absent: Councilors Norton and Laredo

City Staff Present: Commissioner of the Public Buildings Department Josh Morse City Engineer Lou Taverna, Chief Operating Officer Jonathan Yeo and Telecommunication Specialist Atty. Alan Mandl

**#508-20**      **Cellco Partnership petition for wireless grant of location on Dedham Street**  
CELLCO PATNERSHIP D/B/A VERIZON WIRELESS petitioning for a grant of location to mount a small cell antenna to pole 117/110 with associated equipment. The proposed installation of equipment consists of one small-antenna mounted to the side of the utility pole, two remote radio heads, an antenna bracket, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection and fiber and coaxial cable located in conduit and mounted to the side of the pole. (60-day action date: 01/12/21)

**Action:**      **Public Facilities Approved 6-0**

**Note:**      Michael Giaimo, the attorney representing Verizon presented the request for a wireless grant of location on Dedham Street. His colleague Alicia Selman and Verizon representatives Paula Foley and Sean Conway were also present for the discussion.

Atty. Giaimo explained that this is pole attachment small cell installation and this particular project goes on an existing utility pole on Dedham Street. There is no ground mounted equipment and it is a way to provide a smaller wireless installation that will provide service to the immediate area. This installation meets the City's requirements for procedures and standards except for aspects of the application where the petitioner has asked for waivers.

Atty. Giaimo explained the attached application. He noted that Verizon Wireless is a licensed wireless carrier who as the authority to place its facilities in the public way to provide services through Verizon under its FCC licenses. The necessary business certificate and licenses from the pole owner have been submitted to the City. The City's procedures and standards require a tax attestation but after consulting with the City's Telecommunication Specialist Attorney Alan Mandl it was advised for Verizon to request a wavier for this requirement. This is a pole that is located on a busy street approximately 40 ft from the closest abutter. An engineer affidavit has also been provided along with a letter to the City ensuring that the installation will meet the radio

frequency emission safety requirements. Atty. Giaimo noted that there is no other utility provider on the proposed pole and no light on the pole. The petitioner will comply with the City's requirement to keep the antenna as small as possible. There is also a request for a waiver on the requirement to have no installations lower than 8 ft above grade. Atty. Giaimo explained that the height of the meter needs to be decided by the electric company and because of the existing equipment on the pole some of the installations will need to be below 12 ft above the ground. The facility will also comply with the pole height requirement, with the antenna being install at the 26.5 ft. The location of the antenna is shown on the attached plan. The equipment will also blend with the existing equipment and the wiring will be covered with a cable shield or a conduit going up the side of the pole. Atty. Giaimo explained the attached diagram on page 66 of the application. The application has complied with Newton's standards with the exception of the waivers that were previously stated.

Lou Taverna, City Engineer noted that the Engineering Department will work with Verizon on the location of the meter above the sidewalk when they apply for their permit.

Committee members asked the following questions:

Q: How will this improve the coverage in the area?

A: Atty. Giaimo explained they don't have a coverage map for this kind of installation. But this is being installed in an area where the service is needed. Mr. Conway explained that the small cells are a new part of their network where they add these locations to either fill a coverage gap or fix a capacity issue.

Q: What is the nature of the equipment that is being installed? Is this 4G or 5G technology?

A: Mr. Conway explained that both of the locations being requested are 4G small cells. If the City were to install a 5G network in Newton they would need to swap out the existing antennas.

Q: There are other sections of the City that have coverage issues, is there a plan to address these other areas?

A: Mr. Conway explained that once Verizon gets a request it could take months to be able to file the application, but Verizon is looking to fix both coverage and capacity issues in the City.

Q: Are there other communities in the area that use the equipment that is being proposed?

A: Mr. Conway explained that there are a few in Watertown, Waltham, Weston, Needham, Boston, Arlington and Belmont. The City of Boston has the largest amount of small cell antennas.

Q: How many small cell antennas would Newton need to be completely covered?

A: Mr. Conway explained that he does not know currently how many Newton would need but Verizon continues to add the technology to areas that need the extra coverage. This may not be information that Verizon can share with the Committee but Mr. Conway will further investigate this question.

Q: If the City is now getting up to date on 4G technology is there a timeline for Verizon to start installing a 5G network in Newton?

A: Mr. Conway explained that 5G is not in the plans right now and the next location for 5G has not been announced yet.

The public hearing was opened and with no member of the public wishing to speak the public hearing was closed.

Councilor Danberg motioned to approve which passed unanimously.

**#509-20**      **Cellco Partnership petition for wireless grant of location on Beethoven Ave**  
CELLCO PATNERSHIP D/B/A VERIZON WIRELESS petitioning for a grant of location to mount a small cell antenna to pole 22 23 with associated equipment. The proposed installation of equipment consists of one small-antenna mounted to the side of the utility pole, two remote radio heads, an antenna bracket, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection and fiber and coaxial cable located in conduit and mounted to the side of the pole (60-day action date: 01/12/21)

**Action:**      **Public Facilities Approved Subject to Second Call 5-0-1 (Councilor Gentile abstaining)**

**Note:**      Michael Giaimo, the attorney representing Verizon presented the request for a wireless grant of location on Beethoven Avenue. His colleague Alicia Selman and Verizon representatives Paula Foley and Sean Conway were also present for the discussion. The application is attached to this report.

Atty. Giaimo explained that this is a similar installation as the previous wireless grant of location. This is at a location that the City has been requesting for Verizon to serve due to the Zervas School. There was a site view a couple of years ago with the Associate City Engineer John Daghlain and they received feedback on the design which was responded to. This application meets the same standards and requests the same waivers that the previous wireless grant of location included.

Committee members asked the following questions:

Q: How does Verizon decide which existing pole the equipment will be installed on?

A: Atty. Giaimo explained that this poll was chosen to serve the City's desire to have coverage at the Zervas School. This pole is adjacent to where the school is located and the other poles on that street were not useable.

Q: Was there any consideration to put the wireless facilities on the roof of the Zervas School?

A: Atty. Mandl explained that there has been opposition with proposing to put wireless facilities on school buildings. This also would require additional permits.

Q: Did Verizon look into the poles on Beacon Street, that was referenced in the attached letter written by an abutter, that would not affect other abutters?

A: Atty. Giaimo explained that Verizon was asked by the City to provide more coverage to the Zervas School and that is the only pole in the immediate area that qualifies for this type of installation. Mr. Conway explained why the other closest poles on Beethoven Avenue would not work for this installation. Additionally, Mr. Conway noted that the pole on Beacon Street may have been checked and is probably too far away to provide coverage for the school. They do check all of the poles in the area to see what would work for the project. Atty. Giaimo explained because of the distance and vegetation on Beacon Street this does not seem like a viable option.

Committee members made the following comments:

This is a project that has been requested for the past 3 years and there has been a capacity issue in that area before the school was even built.

Verizon should look into the location on Beacon Street and all the locations that would not affect other abutters and see if those poles could still provide the same coverage.

There have been studies done that show the relative emissions from a small cell antenna can be less than the radiation given off by a cellphone that is up to someone's ear. There is not really another way to improve the service at the Zervas School unless the City were to install a mono poll that is 60 ft high that carries a device at the top that covers a broader area. But currently there is not a community that is willing to install one of these poles. The City developed the procedures and standards to ensure the safety of abutters to these projects.

There is a shot clock for this type of petition and the City is already approximately 30 days into this timeline. Atty. Mandl explained that the shot clock is 60 days from the submission of the complete application. The application was submitted on November 13<sup>th</sup>, 2020 which means the shot clock is up on January 12<sup>th</sup>, 2021. This is also applicable to the previous wireless grant of location (508-20). Atty. Mandl explained if they go past this time frame Federal law states that this would cause an unreasonable delay and would constitute a prohibition of service. If more time is needed and the applicant is willing than the parties can enter into a tolling agreement to



allow a little more time to investigate an issue. But the applicant is not required to enter into this agreement.

The public hearing was opened.

Solomon Friedberg and Karen Siller, 31 Beethoven Avenue expressed their concern for the project. Mr. Friedberg explained that they live directly across the street from the Zervas Elementary School and are concerned about the health consequences of the small cell antenna. There have been studies done that show there are health risks related to this type of technology. Mr. Friedberg noted that he understands the need for more coverage but this antenna is directly across the street from their home and they would be subject to continuous radiation. Mr. Friedberg and Ms. Siller provided the attached letter. The letter explains several locations that could still address the needs of the community. Additionally, Mr. Friedberg noted that they would like the City and Verizon to find an alternative location that would still provide coverage but would not place the antenna across the street from their property. Dr. Siller explained that the question of exposure also deals with how long the exposure is present. The antenna would be across the street from her property for an extended period.

Atty. Mandl explained that under Federal law the City is not able to deny this petition based on perceived environmental effects of the wireless facilities as long the wireless facilities meet the requirements of the FCC's radio frequency emissions. The applicant has provided evidence that it does comply with these requirements. In general, the City can review locations of the pole. If the location for the wireless facilities is changed it could just shift the burden to a different resident and this pole is on the opposite side of the street of the residents. There is a need for a service improvement in this area.

David Grabowski, 39 Beethoven Avenue echoed the sentiments stated by Mr. Friedberg. Mr. Grabowski explained that he has been a parent at Zervas and knows that the cell service is bad but the answer should not be to put a small cell antenna so close to a school and abutters. There should be a place to install the wireless facilities that is safe and provide adequate coverage.

Jenn Martin, 86 Allen Avenue explained that she understands the concerns of the abutters but the coverage is needed in this area. There was a lockdown at the Zervas School which was an accidental lockdown but some of the staff in the building were unaware it was accidental. In some areas of the school there was no cell service which caused the staff members not being able to check-in and find out what was happening at the school. The loss of coverage has become a safety issue in this area. There needs to be a solution that provides this much needed coverage.

Jonathan Yeo, Chief Financial Officer noted that the Public Safety Departments have been concerned about this site and the Zervas community for the last several years. Both the Fire and Police Department has listed this as a high priority area.

The public hearing was closed.

The Committee discussed approving the item subject to second call so that Verizon can further investigate if there are other poles the wireless facilities could be installed on.

Councilor Crossley motioned to approve subject to second call which passed 5-0-1, Councilor Gentile abstaining.

**#396-20      Request for updates on HVAC and ventilation at Newton Public Schools**

The President of the Council, on behalf of the City Council, requesting an update to the Public Facilities Committee from Commissioner Morse on current work on HVAC and air quality in the Newton Public Schools at each meeting of the Public Facilities Committee this fall until work is complete.

**Action:**      **Public Facilities Held 6-0**

**Note:**      An amended report to reflect the discussion on docket item #396-20 will be available on Tuesday, December 22, 2020.

**#510-20      Reappointment to the Sustainable Materials Management Commission**

HER HONOR THE MAYOR reappointing MARIAN RAMBELLE, 2 Harrington Street, Newton, as a member of the Sustainable Materials Management Commission for a term to expire on October 31, 2023. (60 Days: 02/05/21)

**Action:**      **Public Facilities Approved 6-0**

**Note:**      With no questions or concerns from the Committee, Councilor Kalis motioned to approve which passed unanimously.

**#511-20      Reappointment to the Sustainable Materials Management Commission**

HER HONOR THE MAYOR reappointing MILES SMITH, 30 Webster Street, Newton, as a member of the Sustainable Materials Management Commission for a term to expire on September 30, 2023. (60 Days: 02/05/21)

**Action:**      **Public Facilities Approved 6-0**

**Note:**      With no questions or concerns from the Committee, Councilor Kelley motioned to approve which passed unanimously.

**#512-20      Reappointment of to the Sustainable Materials Management Commission**

HER HONOR THE MAYOR reappointing SUNWOO KAHNG, 60 Garland Road, Newton, as a member of the Sustainable Materials Management Commission for a term to expire on November 15, 2023. (60 Days: 02/05/21)

**Action:**      **Public Facilities Approved 6-0**

**Note:**      With no questions or concerns from the Committee, Councilor Danberg motioned to approve which passed unanimously.

**#513-20      Reappointment of to the Sustainable Materials Management Commission**  
HER HONOR THE MAYOR reappointing SETH PARKER, 26 Shornecliffe Road, Newton, as a member of the Sustainable Materials Management Commission for a term to expire on September 30, 2023. (60 Days: 02/05/21)

**Action:**      **Public Facilities Approved 6-0**

**Note:**      With no questions or concerns from the Committee, Councilor Danberg motioned to approve which passed unanimously.

The Committee adjourned at 8:56 p.m.

**Respectfully Submitted,**

**Alison M. Leary, Chair**



# CITY OF NEWTON MASSACHUSETTS

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## APPLICATION FORM

CITY CLERK  
NEWTON, MA. 02459

This Application Form is to be used for the permitting of (1) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does not have any pre-existing Wireless Communication Facility attachments; (2) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does have pre-existing Wireless Communication Facility attachments, but does not satisfy the requirements under 47 U.S.C. §1455 and related Federal Communications Commission ("FCC") regulations; and (3) new pole construction in a public way primarily for purposes of providing Wireless Communication Services. Refer to City Council Wireless Grant of Location Standards & Procedures.

### Filing of Application & Fee:

Please provide to the City Clerk in paper format an original and two (2) copies of your application and 10 copies of all attachments and plans. Also provide a complete application and attachments in PDF format or in a digital format compatible with the City's systems. **The application must be complete per the attached check list in order to be filed with the City Clerk.**

**A filing fee of \$500 per location must accompany the application at the time of filing.**

### Applicant Contact Information:

Name: Michael S. Giaino as attorney for Cellco Partnership d/b/a Verizon Wireless

Phone: (617) 557-5959

Address: Robinson & Cole LLP, One Boston Place, Fl. 25, Boston, MA 02108

Email Address: mgaiaino@rc.com

### Owner(s) of the Utility Pole:

Name: Verizon and Eversource

Phone: \_\_\_\_\_

Address: 118 Flanders Road, Westborough, MA 01581 / One NSTAR Way, Westwood, MA 02090

Email Address: \_\_\_\_\_

Owner of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes in whose name a Grant of Location order would be issued:

Name: Cellco Partnership d/b/a Verizon Wireless

Phone: (508) 330-3392

Address: 118 Flanders Road, Westborough, MA 01581

Email Address: sean.conway@verizonwireless.com

If different than the Owner, the User of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes:

Name: N/A Phone: N/A

Address: N/A Email Address: N/A

If in residential area, is the location directly in front of a residence? ☒ Yes ☐ No

If yes, what is the distance between the proposed pole location and residence that it would front?

The proposed pole will be located approximately 40 feet in front of the closest residence.

If the location is within a Historic District, please identify the historic district and state whether the applicant has filed for a Certificate from the Historic District Commission and if so, the date of that filing:

N/A

Pole #: 117/110

#### Description of Proposed Wireless Communications Facilities

Narrative description of the proposed wireless communications facilities.

The proposed facility will be a "small cell" site designed to provide additional capacity and quality of service to this area of Newton. The proposed installation of equipment consists of one (1) small-cell antenna mounted to the side of the utility pole, two (2) remote radio heads, an antenna bracket, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection, and fiber and coaxial cable located in conduit and mounted to the side of the pole. No equipment will be installed on the ground.

If an applicant proposes adding to the number of Wireless Communications Facilities or expanding the dimensions of the proposed wireless communications facilities (except with regard to replacement of existing wireless communications equipment with comparable equipment), the applicant must apply for a new wireless grant of location for the additional wireless communications equipment.

**Compliance Issues**

Identify any requirement or condition in the Standards with which the Applicant will not or cannot comply with and provide a complete explanation why it cannot or will not comply:

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Is the applicant requesting an exception to any standard under Section III.L.? If so, please specify the standard and provide factual support for the requested exception:

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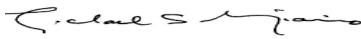
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Signature of Applicant: 

Name and Title and any Business Name: \_\_\_\_\_

Name of Principal or Client of Applicant: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**TOWN OF NEWTON, MASSACHUSETTS  
CITY COUNCIL**

**STATEMENT IN SUPPORT OF  
GRANT OF LOCATION PETITION**

**Applicant:** Cellco Partnership d/b/a Verizon Wireless (“Verizon Wireless”)  
118 Flanders Road  
Westborough, MA 01581

**Nearest Street:** Dedham Street, Newton MA 02459

**Proposed Use:** Wireless Communications Facility Mounted to the Side of an Existing Pole

**BACKGROUND**

This statement is submitted on behalf of Cellco Partnership d/b/a Verizon Wireless (“Verizon Wireless” or “Applicant”) in support of its application for a grant of location, pursuant to Newton City Council Grant of Location Procedures and Standards for Wireless Communications Facilities to be Located in Public Ways (“Procedures and Standards”), adopted August 12, 2019, Chapter 23 of the Newton City Ordinances, M.G.L. c. 166, §§ 21 and 22, and other applicable state and federal laws, including 47 U.S.C. §§ 253 and 332(c)(7), to permit the installation of a wireless communications antenna and associated equipment on an existing utility pole #117/110 located on Dedham Street, at approximately 983 Dedham Street, Newton, MA, as described in the petition made to Newton City Council, dated November 13, 2020.

**DESCRIPTION OF PROPOSED FACILITY**

The proposed facility will be a personal wireless services facility within the meaning of the Federal Telecommunications Act (“TCA”), 47 U.S.C. § 332(c)(7)(C)(ii), and is a Wireless Communications Facility within the meaning of Section IV(A)(13) of the Procedures and Standards. The proposed facility will comply with all applicable federal and state regulations concerning such facilities.

The proposed facility will be a “small cell” site designed to provide additional capacity and quality of service to this area of Newton. It will improve service on the Verizon Wireless network for Newton residents and others living, working and traveling in the vicinity of the existing utility pole. The ability to reliably access wireless data and voice services is desirable for residents and businesses in Newton and enhances public safety by facilitating incident reporting and emergency response.

The proposed Verizon Wireless facility is depicted on the plans titled “Newton S MA SC03” prepared by Dewberry Engineers, Inc., last revised April 10, 2020 as submitted with this application (“Site Plans”).

The proposed installation of equipment consists of one (1) small-cell antenna mounted to the side of the utility pole, two (2) remote radio heads (“RRHs”), an antenna bracket, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection, and fiber and coaxial cable located in conduit and mounted to the side of the pole. No equipment will be installed on the ground.

### **GRANT OF LOCATION REQUIREMENTS**

Verizon Wireless requests permission, pursuant to Section II of the Procedures and Standards and M.G.L. c. 166, § 22, to install the proposed facility as a wireless communications facility mounted to the top of an existing utility pole. According to § 23-6 of the Newton Ordinances, “every petition presented to the city council for permission to erect...abutments or other fixtures upon any public ways shall be accompanied by a plan showing the exact location of abutment or other fixture...the trees and other objects or structures in the immediate vicinity...and of the lines or wires such... abutments or other fixtures are designed to support.” Under Section IV of the Procedures and Standards, “all Wireless Communications Facilities shall be designed and maintained to minimize visual, noise and other impacts on the surrounding community, and to avoid any obstruction of the use of public ways, including sidewalks.” As demonstrated by the Site Plans, the proposed facility will comply with design standards as outlined in the Procedures and Standards. The proposed facility satisfies the applicable standards for such necessary approval, as follows:

<b>Personal Wireless Services Facilities — General Conditions</b>	
<b>Section III(A):</b> An Applicant must demonstrate that it is qualified and eligible under G.L.c. 166, § 21 to place its facilities on poles located in the public ways.	Applicant has submitted a copy of Verizon Wireless’ Business Certificate which is filed with the City of Newton and current FCC licenses to offer wireless communication services. ( <i>See Exs. A &amp; B</i> ).
<b>Section III(A):</b> The Applicant should demonstrate that its proposed facilities will be used to carry out the telecommunications services covered by its Statement of Business Operations and/or an applicable FCC license.	The proposed facility will be used to provide services pursuant to Verizon Wireless’ FCC licenses. ( <i>See Ex. B</i> ).
<b>Section III(A):</b> The Applicant should provide evidence of its authority to conduct in Massachusetts the business carried out through the proposed facilities.	Applicant has submitted a copy of Verizon Wireless’ Business Certificate which demonstrates its authority to conduct in Massachusetts the business utilizing the equipment. ( <i>See Ex. A</i> ).
<b>Section III(E):</b> The Applicant shall submit evidence of pole owner permission to attach its	Applicant has submitted a location - specific license from the pole owners Verizon Wireless



facilities to the specific pole or poles included in its application.	and Eversource Energy. ( <i>See</i> Ex. C). Applicant has also submitted an Engineer's Affidavit certifying that the pole owners have granted a license for the proposed location. ( <i>See</i> Ex. D).
<b>Section III(F):</b> The Applicant shall complete the tax attestation.	The City has not provided a tax attestation form and accordingly has advised the Applicant to request a waiver of this requirement.
<b>Section IV(B)(2):</b> Applicants are encouraged to avoid pole locations that would be (a) directly in front of, and in close proximity to, a residence, (b) on a scenic road, (c) in front of and on the same side of the street as an historic building listed in the Massachusetts Historic Register, (d) in an historic district; (e) at an entry point to a village center; or (f) within an existing underground utility district. Applicants are also encouraged to use existing Utility Poles which do not support existing Wireless Communications Facilities.	Applicant will comply with this requirement. The proposed antenna and radio equipment will be installed on an existing pole approximately 40 feet from the closest residence. ( <i>See</i> Ex. E, Sheet Number C-1).
<b>Section IV(C):</b> The Applicant shall provide a statement certifying that the proposed facility will comply with Federal Communications Commission ("FCC") regulations concerning the environmental effects of radio frequency emissions ("RFE").	The Engineer's Affidavit attached as Exhibit D certifies that proposed attachments will be in compliance with FCC RFE regulations. Verizon Wireless has also submitted an EME letter which was transmitted to the City of Newton and confirms that the equipment will comply with FCC RFE safety requirements. ( <i>See</i> Exs. D & G).
<b>Section IV(G)(1):</b> Only one (1) personal wireless service provider or DAS provider shall be allowed to own, attach and/or operate Wireless Communications Facilities which are attached to a single Utility Pole.	There is no other personal wireless service provider with facilities on this utility pole.
<b>Section IV(G)(2):</b> No Wireless Communications Facilities shall be mounted to City-owned infrastructure located in the public ways, including but not limited to streetlights and traffic signals, unless authorized in writing by the Commissioner of Public Works and Mayor or her authorized designee.	Not applicable.

<b>Personal Wireless Services Facilities — Design Guidelines</b>	
<b><u>Section IV(G)(7)(a):</u></b> The personal wireless service antenna, including antenna panels, whip antennas or dish-shaped antennas, shall be as small as practicable, taking into account aesthetic and public safety considerations.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(b):</u></b> The total combined volume of all above ground equipment and appurtenances serving a personal wireless service antenna shall be as small as practicable, taking into account aesthetic and public safety considerations.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(c):</u></b> The operator of Wireless Communications Facilities shall, whenever possible, locate the base of the equipment or appurtenances at a height of no lower than eight (8) feet above grade. No facilities may be installed at grade without the approval of the Commissioner of Public Works and the City Council. If the City prohibits electric meters on utility poles or the electric distribution company does not require an electric meter, the operator shall locate the base of the equipment or appurtenances no lower than 12 feet above grade.	The Applicant has requested a waiver of this requirement. The meter height will be determined by the electric company. Because of the configuration of existing utility lines attached to the pole, some equipment will be located below 12 feet above ground as shown on the plans. ( <i>See</i> Ex. E, Sheet Number C-2). The Applicant is not proposing to install any equipment at grade.
<b><u>Section IV(G)(7)(d):</u></b> The top of the highest point of the Utility Pole shall not exceed forty (40) feet and the combination of the height of the utility pole and personal wireless service antenna extension shall not exceed forty-four (44) feet above ground level.	The proposed facility will comply with this requirement. The top of the highest point of the utility pole is 33.9 feet above ground level. The proposed antenna is below the top of the highest point of the utility pole at 26.5 feet above ground level. ( <i>See</i> Ex. E, Sheet Number C-2).
<b><u>Section IV(G)(7)(e):</u></b> To the maximum extent practicable, the color of the Wireless Communications Facilities shall be similar to and blend with (a) the existing equipment on the Utility Pole and/or on other nearby Utility	The proposed facility will comply with this requirement. ( <i>See</i> Ex. E, Sheet Number C-4).

Poles, (b) the color of the Utility Pole, or (c) another color reasonably satisfactory to and directed by the City Council. The Wireless Communications Facilities shall have non-reflective materials.	
<b><u>Section IV(G)(7)(f):</u></b> Any wiring on the pole must be covered with an appropriate cover or cable shield.	The proposed facility will comply with this requirement. ( <i>See</i> Ex. E, Sheet Number C-2).
<b><u>Section IV(G)(7)(g):</u></b> Antenna elements and equipment shall be mounted as close to the surface of the pole as practical and feasible.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(h):</u></b> Personal wireless service antenna shall include a radome, cap or other antenna panel covering or shield and shall use a color that blends with the color of the utility pole on which it is mounted.	The proposed antenna is as depicted on the plans filed with this application. ( <i>See</i> Ex. E, Sheet Number C-4).
<b><u>Section IV(G)(7)(i):</u></b> Other than signs required by federal or state law or by the pole owner, Wireless Communications Facilities shall not have signs installed thereon. Identification tags may be utilized in accordance with governmental and/or pole owner requirements.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(j):</u></b> Wires and cables connecting the antenna and/or appurtenances shall be installed in accordance with the National Electrical Safety Code in force at the time of installation of the wires and cables or any stricter standards required by a pole owner, and TIA/EIA applicable codes.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(k):</u></b> The Wireless Communications Facilities shall be grounded in accordance with the National Electrical Safety Code in force at the time of installation of the wires and cables or any stricter standard required by a pole owner.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(l):</u></b> No guy wires or other support wires shall be used in connection	The proposed facility will comply with this requirement.

with Wireless Communications Facilities unless the facilities are proposed to be attached to an existing Utility Pole that incorporates guy wires prior to the date that the applicant has applied for a grant of location.	
<b><u>Section IV(G)(7)(m):</u></b> The proposed Wireless Communications Facilities shall be properly engineered to withstand wind loads required by applicable safety codes and pole owner requirements.	The proposed facility will comply with this requirement. Verizon Wireless has submitted a Structural Analysis letter to demonstrate the proposed installation's ability to withstand wind loads based on applicable state and local building codes. ( <i>See Ex. F</i> ).
<b><u>Section IV(G)(7)(n):</u></b> The Wireless Communications Facilities shall be located so as not to cause any physical or visual obstruction to pedestrian or vehicular traffic, cause safety hazards to pedestrians and motorists or otherwise incommode the public's use of the public way. The Facilities shall not interfere with snow plowing, side walk clearing, leaf removal or the maintenance of public shade trees.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(o):</u></b> All Wireless Communications Facilities shall be designed and located in such a manner as to avoid adverse impacts on traffic and pedestrian safety. Wireless Communications Facilities shall not project over the public way or sidewalk (beyond the berm or curb) in such a manner and at a height that will interfere with the public use of the public way or sidewalk. The Applicant shall comply with the Uniform Traffic Manual for Traffic Control at all times during construction or installation.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(p):</u></b> The Applicant's Wireless Communications Facilities shall not produce any lighting or blinking light that is not required by federal or state law or by an applicable industry safety code.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(q):</u></b> The Applicant shall	The proposed facility will comply with this

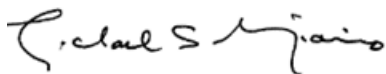
provide adequate security for its Wireless Communications Facilities in accordance with current industry practices and any applicable standards.	requirement.
<b>Section IV(G)(7)(r):</b> The Applicant shall employ Wireless Communications Facilities that are either silent or generate as little noise as is technically feasible and commercially practicable in light of industry standards and equipment specifications. In all cases, the Applicant shall comply with any applicable City noise ordinance. In the event that its facilities fail to comply with such ordinance, the Applicant shall provide noise suppression equipment as reasonably necessary to bring the facilities into compliance with such ordinance. In addition, the Applicant shall demonstrate that it is capable of promptly shutting down and repairing any equipment that is not in compliance with City noise regulations.	The proposed facility will comply with this requirement. ( <i>See Ex. D</i> ).
<b>Section IV(G)(7)(s):</b> The Applicant shall demonstrate that it is capable of promptly shutting down and repairing any equipment that vibrates excessively.	The proposed facility will comply with this requirement.
<b>Section IV(G)(7)(t):</b> The Applicant and its facilities shall not interfere with the operation and maintenance of any wires, cables or equipment already attached to a utility pole. Signage already attached to a pole shall not be moved without the prior written consent of the City department that controls the placement of the signage.	The proposed facility will comply with this requirement.
<b>Other Grant of Location Requirements</b>	
<b>Section IV(G)(8)(f):</b> Under § 23-11 of the City Ordinance, a performance bond[...]is required for every person constructing, maintaining or operating a telegraph, telephone or other electrical line in the city in a penal sum of not less than ten thousand dollars	The applicant has not provided a performance bond with this application and requests that this requirement be a condition of approval

(\$10,000.00).	
<p><b>Section IV(G)(8)(g)(iii):</b> The City discourages the installation of Wireless Communication Facilities within the dripline of a Public Shade Tree or other City owned tree. If there is no alternative to the installation of a Wireless Communication Facility within the dripline of a Public Shade Tree or other City owned tree the installing party must comply with the City's Public Tree Regulation and obtain a Tree Permit from the Tree Warden.</p>	<p>The proposed facility will comply with this requirement.</p>

### CONCLUSION

For all of the foregoing reasons, and with full reservation of its rights under applicable federal, state and local law, Verizon Wireless submits that the proposed wireless communications facility satisfies the requirements of the Procedures and Standards, Chapter 23 of the Newton City Ordinance, M.G.L. c. 166, §§ 21 and 22, and applicable state and federal law, including 47 U.S.C. §§ 253 and 332(c)(7) and respectfully requests that the Newton City Council grant permission to Verizon Wireless pursuant to Section III (M) of the Procedures and Standards, as well as any other relief that may be necessary or appropriate, to allow the installation and operation of a Verizon Wireless wireless communications facility as described in this application and the accompanying materials and as will be further addressed at the hearing on this matter.

Respectfully submitted,  
 Cellco Partnership d/b/a Verizon Wireless  
 By its attorneys,




---

Michael S. Giaimo, Esq.  
 Alicia R. Selman, Esq.  
 Robinson & Cole LLP  
 One Boston Place, 25th Floor  
 Boston, MA 02108  
 (617) 557-5959

Dated: November 13, 2020

**CITY OF NEWTON, MASSACHUSETTS  
CITY COUNCIL**

**STATEMENT IN SUPPORT OF  
GRANT OF LOCATION PETITION**

**EXHIBIT LIST**

**Exhibit A** – Verizon Wireless’ Business Certificate filed with the City of Newton City Clerk’s Office dated August 12, 2019;

**Exhibit B** – Copy of Verizon Wireless’ Federal Communications Commission Licenses;

**Exhibit C** – Verizon License dated February 12, 2019, Eversource Energy License dated February 17, 2017, and Eversource Energy’s Initial Authorization Letter dated November 19, 2020;

**Exhibit D** - Engineer’s Affidavit on Behalf of Verizon Wireless dated February 3, 2020;

**Exhibit E** – Site Plans prepared by Dewberry Engineers Inc. dated April 10, 2020;

**Exhibit F** – Structural Analysis of the Proposed Equipment Installation dated February 28, 2020; and

**Exhibit G** – City of Newton EME Letter dated February 6, 2020.

# EXHIBIT A





**City of Newton-City Clerk's Office**  
 1000 Commonwealth Ave. Newton, MA 02459




**Business Certificate**  
**\$35.00 Filing Fee**  
**Requires Renewal Every 4 Years**

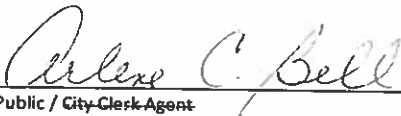
In conformity with the provisions of Massachusetts General Law Chapter 110, Section 5, the undersigned hereby declares that a business is being conducted under the name of: (Please Print)

Business Name	Verizon Wireless			
Proposed Use	wireless telecommunications			
Location of Business	13 Boylston Street	Chestnut Hill	MA	02467
	Address	City	State	Zip code

Full name and address of each person conducting such business:

Name	Celco Partnership			
	 Karen M. Shipman, Assistant Secretary Signature (In presence of Notary or City Clerk Agent)			
Address	One Verizon Way	Basking Ridge	NJ	07920
		City	State	Zip code
Name	Signature (In presence of Notary or City Clerk Agent)			
Address		City	State	Zip code
Name	Signature (In presence of Notary or City Clerk Agent)			
Address		City	State	Zip code

On August 12, 2019 the above-named individual personally appeared before me and made oath that the foregoing statement is true.

  
 Notary Public / City Clerk Agent

August 3, 2023

My Commission Expires/Seal:



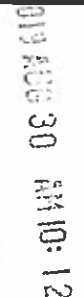
Under the provisions of Chapter 337 of the Acts of 1985 and Chapter 110, Section 5 of the Mass. General Laws, business certificates shall be in effect for four years from the date of issue and shall be renewed each four years thereafter. A statement under oath must be filed with the City Clerk upon discontinuance or withdrawing from such business or partnership. Copies of such certificates shall be available at the address such business is conducted and shall be furnished upon request during regular business hours to any person who has purchased goods or services from such business. Violations are subject to a fine of not more than three hundred dollars, (\$300.00) for each month during which such violation occurs.

This certificate expires four [4] years from Date/Time stamp on back: AUGUST 30, 2023

*\*The issuance of this Business Certificate does not imply that all relevant licenses required to legally operate this business have been obtained or are current. This certificate only records that a business is being conducted.*

See Reverse



Home Office Affidavit (Circle)	No	Yes
If the proposed business is located within a residence, you must file a "Home Business Affidavit" with the Inspectional Services Department thereby acknowledging compliance with Newton's Home Business Ordinance.		
Inspectional Services Department Official:		
I hereby certify that this business address is in the following zoning district, and is an allowed use in accordance with the revised zoning ordinances of the City of Newton.		
	BU 4 Zoning District	 Attest
Received in the City Clerk's Office		
	58 Book	295 Page
Entered in the records of business titles in the City Clerk's Office-City of Newton, Massachusetts		
 _____ David A. Olson Newton City Clerk		Date/Time Stamp: 

New	Renewal
	✓

# EXHIBIT B

ULS License

**Cellular License - KNKA201 - Cellco Partnership**

Call Sign	KNKA201	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

**Market**

Market	CMA006 - Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH	Channel Block	B
Submarket	0	Phase	2

**Dates**

Grant	08/26/2014	Expiration	10/01/2024
Effective	11/01/2016	Cancellation	

**Five Year Buildout Date**

08/27/1989

**Control Points**

**3** 500 W. Dove Rd., TARRANT, Southlake, TX  
P: (800)264-6620

**Licensee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender



ULS License

**PCS Broadband License - KNLH242 - Cellco Partnership**

Call Sign	KNLH242	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	BTA051 - Boston, MA	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

**Dates**

Grant	06/02/2017	Expiration	06/27/2027
Effective	06/02/2017	Cancellation	

**Buildout Deadlines**

1st	06/27/2002	2nd	
-----	------------	-----	--

**Notification Dates**

1st	05/17/2002	2nd	
-----	------------	-----	--

**Licensee**

FRN	0003290673	Type	Joint Venture
-----	------------	------	---------------

**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Verizon Wireless Licensing - Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government? No

Is the applicant an alien or the representative of an alien? No

Is the applicant a corporation organized under the laws of any foreign government? No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? No

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? Yes

The Alien Ruling question is not answered.

### **Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

### **Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

### **Demographics**

Race

Ethnicity

Gender



## Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

ULS Lease

[? HELP](#)

### KNLF646 - L000026571 - Cellco Partnership

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#)
[License Details](#) : [Leases](#) : [Lease Details](#)

MAIN	ADMIN	MARKET	MAP	TECHNICAL DATA
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Lease ID	L000026571	Radio Service	CW - PCS Broadband
Status	Active	Classification of Lease	Spectrum Manager Lease
		Term of Lease	Long

#### Dates

Grant/Accepted	03/08/2018	Expiration	01/03/2027
Commencement	02/16/2018	Cancellation	

#### Lessee

FRN	0003290673 ( <a href="#">View Ownership Filing</a> )	Type	General Partnership
-----	---	------	---------------------

#### Lessee

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Real Party in Interest	Cellco Partnership FRN of Real Party in Interest: 0003290673

#### Contact

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

#### Lessee Qualifications and Ownership Information

Radio Service Type	
Regulatory Status	Interconnected

#### Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

#### Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.



**Demographics**

Race

Ethnicity

Gender

**ULS Help**[ULS Glossary](#) - [FAQ](#) - [Online Help](#) - [Technical Support](#) - [Licensing Support](#)**ULS Online Systems** [CORES](#) - [ULS Online Filing](#) - [License Search](#) - [Application Search](#) - [Archive License Search](#)**About ULS** [Privacy Statement](#) - [About ULS](#) - [ULS Home](#)**Basic Search**

By Call Sign ▼ =

**SEARCH**[FCC](#) | [Wireless](#) | [ULS](#) | [CORES](#)[Help](#) | [Tech Support](#)

Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

Phone: 1-877-480-3201  
TTY: 1-717-338-2824  
[Submit Help Request](#)

ULS Lease

**WRBE696 - L000035329 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035329	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBE697 - L000035330 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035330	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBE848 - L000035481 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035481	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBE849 - L000035482 - Cellco Partnership**[License Details](#) : [Leases](#) : **Lease Details**

Lease ID	L000035482	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF488 - L000035921 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035921	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF489 - L000035922 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035922	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

Lessee

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network  
Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity

Gender

ULS Lease

**WRBF778 - L000036207 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036207	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership 5055 North Point Parkway, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Real Party in Interest	Cellco Partnership
	FRN of Real Party in Interest 0003290673

**Contact**

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

**Lessee Qualifications and Ownership Information**

Radio Service Type	
Regulatory Status	Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race	
Ethnicity	Gender



ULS Lease

**WRBF779 - L000036208 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036208	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

Lessee

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network  
Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity

Gender

ULS Lease

**WRBF954 - L000036377 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036377	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership 5055 North Point Parkway, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
--	--

Real Party in Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
------------------------	--------------------	-------------------------------	------------

**Contact**

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race	
Ethnicity	Gender

ULS Lease

**WRBF955 - L000036378 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036378	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBG414 - L000036637 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036637	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBG415 - L000036638 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036638	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Common Carrier Fixed Point to Point Microwave License - WLW562 - Cellco Partnership

Call Sign	WLW562	Radio Service	CF - Common Carrier Fixed Point to Point Microwave
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Status	Active	Auth Type	Regular
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**Dates**

Grant	01/11/2011	Expiration	02/01/2021
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Effective	11/15/2016	Cancellation	
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**Control Points**

None

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(678)259-1319 E:LicensingCompliance@verizonwireless.com
---	---

**Contact**

Verizon Wireless Licensing Manager - MANAGER 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(678)259-1319 E:LicensingCompliance@verizonwireless.com
--	---

**Microwave Data**

Oper Type	Permanent Fixed Point to Point	Station Class	FXO - Operational Fixed
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**Ownership and Qualifications**

Radio Service Type	Fixed
--------------------	-------

Regulatory Status	Common Carrier	Interconnected	Yes
-------------------	----------------	----------------	-----

**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government?	No
--	----

Is the applicant an alien or the representative of an alien?	No
--	----

Is the applicant a corporation organized under the laws of any foreign government?	No
--	----

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
---	----

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	Yes
---	-----

The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized. ✓

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Local Multipoint Distribution Service License - WPLM413 - Cellco Partnership

Call Sign	WPLM413	Radio Service	LD - Local Multipoint Distribution Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	B
Submarket	0	Associated Frequencies (MHz)	031000.00000000-031075.00000000-031225.00000000-031300.00000000

### Dates

Grant	07/25/2018	Expiration	06/17/2028
Effective	02/27/2019	Cancellation	

### Buildout Deadlines

1st	06/01/2012	2nd	
-----	------------	-----	--

### Notification Dates

1st	03/19/2012	2nd	
-----	------------	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

### Ownership and Qualifications

Radio Service Type	Fixed		
Regulatory Status	Common Carrier, Non-Common	Interconnected	Yes



## Carrier

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Local Multipoint Distribution Service License - WPOH955 - Celco Partnership

Call Sign	WPOH955	Radio Service	LD - Local Multipoint Distribution Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	A
Submarket	1	Associated Frequencies (MHz)	029100.00000000- 029250.00000000- 031075.00000000- 031225.00000000

### Dates

Grant	09/11/2018	Expiration	10/06/2028
Effective	09/14/2018	Cancellation	

### Buildout Deadlines

1st	10/06/2008	2nd	
-----	------------	-----	--

### Notification Dates

1st	02/07/2008	2nd	
-----	------------	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

### Ownership and Qualifications

Radio Service Type	Fixed		
Regulatory Status	Common Carrier, Non-Common	Interconnected	No

## Carrier

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGA900 - Cellco Partnership**

Call Sign	WQGA900	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	BEA003 - Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH-RI-VT	Channel Block	B
Submarket	1	Associated Frequencies (MHz)	001720.00000000-001730.00000000-002120.00000000-002130.00000000

**Dates**

Grant	11/29/2006	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	

**Buildout Deadlines**

1st	2nd
-----	-----

**Notification Dates**

1st	2nd
-----	-----

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type    Mobile

Regulatory Status    Common Carrier    Interconnected    Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGB266 - Cellco Partnership**

Call Sign	WQGB266	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	CMA006 - Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH	Channel Block	A
Submarket	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000-002110.00000000-002120.00000000

**Dates**

Grant	11/29/2006	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	

**Buildout Deadlines**

1st	2nd
-----	-----

**Notification Dates**

1st	2nd
-----	-----

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile
--------------------	--------

Regulatory Status	Common Carrier	Interconnected	Yes
-------------------	----------------	----------------	-----

**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government?	No
--	----

Is the applicant an alien or the representative of an alien?	No
--	----

Is the applicant a corporation organized under the laws of any foreign government?	No
--	----

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
---	----

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	Yes
---	-----

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?	Yes
---	-----

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**700 MHz Upper Band (Block C) License - WQJQ689 - Cellco Partnership****PA** This license has pending applications: 0008938399

Call Sign	WQJQ689	Radio Service	WU - 700 MHz Upper Band (Block C)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	REA001 - Northeast	Channel Block	C
Submarket	0	Associated Frequencies (MHz)	000746.00000000- 000757.00000000 000776.00000000- 000787.00000000

**Dates**

Grant	09/11/2019	Expiration	06/13/2029
Effective	09/11/2019	Cancellation	

**Buildout Deadlines**

1st	06/13/2013	2nd	06/13/2019
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**Notification Dates**

1st	06/20/2013	2nd	06/17/2019
-----	------------	-----	------------

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@VerizonWireless.com
---	--

**Contact**

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@VerizonWireless.com
--	--

**Ownership and Qualifications**

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes



**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Upper Microwave Flexible Use Service License - WRBA936 - Cellco Partnership

Call Sign	WRBA936	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	L1
Submarket	1	Associated Frequencies (MHz)	027500.00000000-027925.00000000

### Dates

Grant	09/11/2018	Expiration	10/06/2028
Effective	02/27/2019	Cancellation	

### Buildout Deadlines

1st	06/01/2024	2nd	
-----	------------	-----	--

### Notification Dates

1st		2nd	
-----	--	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

### Ownership and Qualifications

Radio Service Type	Fixed, Mobile		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected	No

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Upper Microwave Flexible Use Service License - WRBA937 - Cellco Partnership

Call Sign	WRBA937	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	L2
Submarket	1	Associated Frequencies (MHz)	027925.00000000-028350.00000000

### Dates

Grant	09/11/2018	Expiration	10/06/2028
Effective	02/27/2019	Cancellation	

### Buildout Deadlines

1st	06/01/2024	2nd	
-----	------------	-----	--

### Notification Dates

1st		2nd	
-----	--	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

### Ownership and Qualifications

Radio Service Type	Fixed, Mobile		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected	No

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

# EXHIBIT C

APPLICATION AND POLE ATTACHMENT LICENSE

Licensee Cellco Partnership, a Delaware Corporation, d/b/a Verizon Wireless  
 Street Address One Verizon Way, Mail Stop 4AW100  
 City, State and Zip Basking Ridge, New Jersey  
 Date 2/17/2017

In accordance with the terms and conditions of the Pole Attachment Agreement, application is hereby made for a license to make 1 Antenna, RRH/Cabinet and meter attachments to poles and 1 Power Supply(ies) located in the municipality of Newton in the State of MA

This request will be designated Pole Attachment License Application Number: Newton S MA SC03 - 430551. Attached are my power supply specifications if applicable. The cable's strand size is 0.5" and weight per foot of cable is 0.2.

☒ Communication Space

☐ Power / Supply Space

Licensee's Name (Print) Sean Conway

Signature

*Sean Conway*

EVERSOURCE

Power Company

Title Real Estate Manager

Tel. No. 508-330-3392

Fax No.

E-mail Sean.conway@verizonwireless.com

\*\*\*\*\*For licensor use, do not write below this line\*\*\*\*\*

Pole Attachment License Application Number \_\_\_\_\_ is hereby granted to make the attachments described in this application to \_\_\_\_\_ attachments to JO<sup>1</sup> poles, \_\_\_\_\_ attachments to FO<sup>2</sup> poles, \_\_\_\_\_ attachments to JU<sup>3</sup> poles, \_\_\_\_\_ Power Supplies and \_\_\_\_\_ other attachments located in the municipality of \_\_\_\_\_, in the State of \_\_\_\_\_ as indicated on the attached Form 3.

Licensor's Name (Print) *Steve Owen*

Signature

*Steve Owen*

(AGREEMENT ID #)

Title

*Supervisor*

Date

*4/27/18*

The Licensee shall submit an original copy of this application to EVERSOURCE Energy.

**AUTHORIZATION FOR FIELD SURVEY WORK**

Licensee: Bell Atlantic Mobile of MA, Ltd., a Bermuda corporation, d/b/a Verizon Wireless

In accordance with Article III & Appendix I of the Pole Attachment Agreement, following is a summary of the charges which will apply to complete a field survey covering Pole Attachment License Application Number Newton S MA SC03 - 430551 located in the municipality of Newton in the State of MA

**FIELD SURVEY CHARGES**

<u>Field Survey</u>	<u>#Poles</u>	<u>Unit Rate</u>	<u>Total</u>
Field Survey Application Fee (includes 1st pole)	1 pole	\$139.00	\$139.00
Field Survey 2 -200 Poles	_____	\$ 13.45 per Pole	\$ _____
Additional Travel Time*	_____	\$200.00 per Day	\$ _____
<b>TOTAL Charges</b>			<b>\$139.00</b>

\* Based on average of 75 poles surveyed per day, add \$200.00 travel time for each additional day required to complete survey.

Please note, if you calculated the cost incorrectly, your check will be returned and a new check for the correct amount must be received by this office in order to schedule the survey. If you need assistance, please call the **HOTLINE** on 800-340-9822. The required field survey covering Pole Attachment License Application # Newton S MA SC03 - 430551 is authorized. I am enclosing an advance payment in the amount of \$139.00.

Licensee's Name (Print) Sean Conway

Signature

*Sean Conway*

Title Real Estate Manager

Address 400 Friberg Pkwy Westborough MA, 01581

Tel. No. 508-330-3392

Date 6/3/2016

**The Licensee shall submit an original copy of this application to EVERSOURCE Energy.**

Revised 03/06/2015

Eversource Energy



**FORM 3 – EVERSOURCE ITEMIZED Pole Make-Ready Work Charges**

**RCE to Complete: Total Poles Surveyed \_\_\_\_\_ Total Poles Requiring NSTAR Make-Ready \_\_\_\_\_**

**PAGE 1 OF 1**

## Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM																		
SURVEYORS:			DATE OF SURVEY:			CWO #:												
Verizon			<b>MUNIC: Newton</b>		<b>STATE: MA</b>			Exch Code:		Munic Code:								
<b>Licensor</b>		Andrew Whelan			<b>LICENSEE NAME: Verizon</b>				<b>LICENSEE APPLICATION #: Newton S MA SC03 - 430551</b>									
<b>EVERSOURCE</b>			<b>ELCO NAME: EVERSOURCE</b>						<b>NSTAR APPLICATION #</b>									
LOCATION			POLE #		ATT		OWNERSHIP						CHARGE		WORK DESCRIPTION			
TEL RTE / STREET NAME <i>List one pole per line</i>	Tel	EI	F/C	P.S.	Riser	J.O.	Tel	EI	J.U.	Tel	EI	F.O.	Tel	EI	YES	NO	TASK #S / REMARKS	* Height of Att.
Dedham Street	117/ 110																	*
																		*
																		*
																		*
																		*
																		*
																		*
<b>TOTALS:</b>																		

• Height of Attachment = Height of Licensee Attachment shall be 40' below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.  
 • Licensee to complete bold italicized areas only. ( Provide ownership information if known )

# EVERSOURCE - Work Order Application

**FOR KEN KENDRICK:**

**Customer Request In-Service Date:** 10/21/2016 **WO Received Date:** \_\_\_\_\_

**Service Address:** Street: Dedham Street Suite: \_\_\_\_\_ Town: Newton Zip: 02458

**Customer Of Record:**

**Customer Responsible for Payment of Monthly Electric Bills**

Name to appear on Monthly Bill: Cellco Partnership (A Delaware Corporation)

DBA – C/O Name: Verizon Wireless

Billing Address: P.O. Box 2375, Spokane, WA 99210-2375

Telephone: \_\_\_\_\_ Tax ID Number: \_\_\_\_\_

Existing Account or Meter Number (if applicable): \_\_\_\_\_

**Property Owner Name (if different from above):** \_\_\_\_\_

Owner Address: \_\_\_\_\_

Owner Phone Number: \_\_\_\_\_

**Party Responsible for Construction costs associated with work order (if different from above)**

Name: Verizon Wireless

Address: 118 Flanders Road, Westborough MA 1581

Phone Number: 508-320-2017

**Please Note that Articles of Incorporation are required for new commercial EVERSOURCE Customers**

**Type of Service Requested: (Circle Appropriate)**

☒ **New Service**

☐ **Service Upgrade**

☐ **Service Relocation**

☐ **Temporary Service**

☐ **Pole Relocation**

☐ **Disconnect/Reconnect**

☐ **Service Removal**

☐ **Metering Only**

OH Service from Pole, Pole# : \_\_\_\_\_ UG Service from; Riser-Pole # : \_\_\_\_\_ Padmount # : \_\_\_\_\_

**Customer Loading**

Type of Load	New Connected Load in KVA	
	Single Phase	Three Phase
Lighting		
Electric heat		
Air Conditioning		
Refrigeration		
Cooking		
Electric Dryer		
Water Heater		
Computer		
Process Equip.	14.4	
Motors/Elevators		
Miscellaneous		
<b>Totals</b>	<b>14.4</b>	

**Brief Description of Work**

Verizon Small Cell Install – Attach 1 antenna 1 RRH/Cabinet and 1 meter to the pole. Requires single phase 60Amp Service

**Number of Meters Required:**

Residential: \_\_\_\_\_

Commercial: \_\_\_\_\_

Public: \_\_\_\_\_

Main Switch Voltage: \_\_\_\_\_

Amperage: \_\_\_\_\_

Phase: \_\_\_\_\_

Service Voltage: \_\_\_\_\_

Amperage: \_\_\_\_\_

Phase: \_\_\_\_\_

Facility Type (ie: school, hospital): \_\_\_\_\_ New Building Square Feet: \_\_\_\_\_

ALL 480V SERVICES REQUIRE COLD SEQUENCE METERING (DISCONNECT SWITCH ON THE LINE SIDE OF THE METER)

If more than 1 meter is required, how will meters be labeled? (ie: Unit 1, 2, etc, Unit A, B, etc.)

**Additional Equipment:**

**Generator:** KW: \_\_\_\_\_ Phase: \_\_\_\_\_ Purpose: \_\_\_\_\_

**Motor(S) :** Total # : \_\_\_\_\_ Largest HP: \_\_\_\_\_ Phase: \_\_\_\_\_ Locked Rotor AMP: \_\_\_\_\_

Type of Starting Compensation (choose one):    Hard                      Soft                      Capacitor                      VFD

\*See Article 802 of EVERSOURCE Information and Requirements Book for Maximum LR current and Three Phase Protection \*

**Contact Name (circle appropriate):**

Customer/Contractor/Consultant: Sean Conway

Street Address: 118 Flanders Road

City, State, Zip: Westborough, MA 01581

Telephone: 508-320-2017

Pager: \_\_\_\_\_

Cell: 508-330-3392

Best Time to Call: \_\_\_\_\_

Fax: \_\_\_\_\_

Electrician: TBD

License Number: \_\_\_\_\_

Business Name: Verizon Wireless

Street Address: 118 Flanders Road

City, State, Zip: Westborough MA 01581

Telephone: 508-320-2017

Pager: \_\_\_\_\_

Cell: \_\_\_\_\_

Best Time to Call: \_\_\_\_\_

Fax: \_\_\_\_\_

Please note that by Interconnecting with the EVERSOURCE Distribution System the Customer of Record acknowledges that they have reviewed and are in compliance with the EVERSOURCE Information & Requirements for Electric Service (Blue Book).

For New Commercial Services, New Residential Developments, New 13.8 kv Two Line Station Electric Service, please provide (2) copies of City/Town approved site plans that illustrates the new facility location and the proposed location of the new utilities (electric, gas, water, sewer, telecommunications) and a One-Line Diagram.

For Service Increases at existing facilities, please submit a One-Line Diagram if available.

For New Residential Services where a pole must be set, please provide (2) copies of a site plan that illustrates the proposed location of the new facilities.

For Temporary Service Requests, please provide (2) copies of a site plan illustrating service location.

You may Fax this Form or mail any additional correspondence to:

EVERSOURCE ENERGY Electric and Gas  
One NSTAR Way  
Westwood, MA, 02090  
Tel: (781) 441 - 3851  
Fax: (781) 441-3194  
Cell: 339-987-7059  
H. Kendrick SW340

**FOR NSTAR USE ONLY**

EVERSOURCE Revenue Allowance: \_\_\_\_\_

EVERSOURCE Rate: \_\_\_\_\_

**KVA or KW rating of Existing Loads (if applicable):**

Existing Winter Peak Demand: \_\_\_\_\_

Month/Date/Year: \_\_\_\_\_

Existing Summer Peak Demand: \_\_\_\_\_

Month/Date/Year: \_\_\_\_\_

## APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

<b>Licensee</b>	VERIZON WIRELESS
<b>Agreement No.</b>	AMA140012
<b>Pole Attachment License</b>	AMA1400121669
<b>Customer License Number</b>	Newton_S_MA_SC03_430551
<b>State of</b>	MA
<b>Municipality</b>	NEWTON

<b>Type of Attachment</b>	<b>Number of Attachments</b>	<b>Billing Description</b>
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	1	MA CAE-POWER METER
Drop	0	
ERUV	0	
Misc	1	MA - JOINT OWNED URBAN TELECOM
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

<b>Total Attachments</b>	4
<b>Total Attachments Billable</b>	4
<b>Total Attachments - No Bill</b>	0

<b>Licenser's Name (Print)</b>	DEBORAH TOBIN
<b>Signature</b>	Approved by DEBORAH TOBIN on 02/12/2019
<b>Date</b>	02/12/2019
<b>Title</b>	SUPERVISOR
<b>Phone</b>	857-415-5150

# EXHIBIT D



118 Flanders Road, 3<sup>rd</sup> Floor  
Westborough, MA 01581

#### AFFIDAVIT ON BEHALF OF VERIZON WIRELESS

The undersigned, in support of applications to install a wireless telecommunications facility consisting of antennas and associated radio equipment on existing wooden utility poles located in the City of Newton, Massachusetts states the following:

1. My name is Sean Conway. I am a Principal Engineer – RE/Regulatory for Verizon Wireless in Massachusetts.
2. Verizon Wireless is a federally licensed provider of wireless communications services with a national footprint.
3. As part of its network development to improve its service to users of its wireless network, Verizon Wireless is proposing to construct small cell wireless facilities on certain utility poles in the City of Newton. It has received the necessary permission from the owners of those utility poles to place antennas and radio equipment and other related cabling and equipment on the poles that are the subject of the applications.
3. Verizon Wireless certifies that its proposed facilities will be in compliance with applicable Federal Communications Commission standards and requirements including the standards for radio frequency emissions.
4. Verizon Wireless confirms that the attachments to be placed on the poles will not be reflective.
5. Verizon Wireless confirms that the proposed facilities will generate as little noise as is technically feasible and commercially practicable and will comply with the City of Newton noise ordinance.

Signed under the pains and penalties of perjury this 3rd day of February, 2020

A handwritten signature in blue ink, appearing to be "Sean Conway", written over a horizontal line.

Sean Conway  
Principal Engineer – RE/Regulatory

# EXHIBIT E

[illegible]



1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE GOVERNING AUTHORITIES:  
MASSACHUSETTS STATE BUILDING CODE – 780 CMR, 9TH EDITION (AMENDMENTS TO IBC 2015)  
NATIONAL ELECTRIC SAFETY CODE (NEC) GRADE “C” CONSTRUCTION STANDARDS  
2017 NATIONAL ELECTRIC SAFETY CODE (NEC)

2. ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY SPECIFICATIONS AND CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) IN COMMUNICATION SPACE TITLED DESIGN & APPLICATION STANDARD BY EVERSOURCE

GROUNDING SHALL COMPLY WITH THE LOCAL UTILITY COMPANY CODES & REQUIREMENTS & NEC ART. 250.

ALL GROUND CONNECTIONS TO BE BURIED HYDRONG COMPRESSION TYPE CONNECTORS OR CAMELO EXOTHERMIC WELD TO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL. ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. EXCEPT AS OTHERWISE INDICATED, GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLES. ALWAYS MAKE 12" TYPICAL BENDS. IF WE CAN BE BENT AT 90 DEGREES WE MUST.

GROUNDING RESISTANCE SHALL BE MEASURED AND RECORDED. PROVIDE VALUES FOR PRODUCT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.

1. NORTH IS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. POWERS AND TELCO TO COME FROM OVERHEAD UTILITY LINES. SERVICE SOURCE TO BE DETERMINED. SEE ONE LINE DIAGRAM ON SHEET C-3 FOR CONTRACTOR & UTILITY COMPANY RESPONSIBILITIES.
4. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DERRIBERRY ENGINEERS INC.
5. UTILITY POLE IM083 COORDINATES BASED ON GOOGLE EARTH.
6. AERIAL & UTILITY MAPS BASED ON GOOGLE EARTH.

- APPROXIMATE ADDRESS REFLECTS THE CLOSEST STREET ADDRESS TO THE LOGUS POLE AND IS BASED ON NEWTON CITY VIEWER GIS MAP. NEAREST ADDRESS DOES NOT REFLECT THE E911 ADDRESS FOR THIS POLE.

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

- [illegible]

RE-SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND CONTRACTOR SHALL BE PERFORMED UNDER THIS CONTRACT.

2. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER.

3. HEIGHTS SHALL BE VERIFIED WITH POLE OWNER PRIOR TO INSTALLATION.

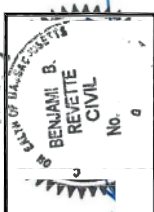
1. EACH COMPONENT OF ANY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL, BOARD, CONTROL, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
2. CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPER, OPERATIVE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CASE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
4. CONTRACTOR SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING AGENCIES TO OBTAIN ALL NECESSARY PERMITS AND INSURANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
5. ALL CONDUIT SHALL CARRY OUT BY SURFACE MOUNTED UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL CARRY OUT ALL WORK IN ACCORDANCE WITH ALL GOVERNING UTILITY, STATE, COUNTY AND LOCAL CODES & O.S.H.A.
7. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.
8. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
9. SPARE CONDUIT SHALL HAVE A PULL WIRE OR ROPE.
10. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB. SHOWING ALL ELECTRICAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
11. TO BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
12. ALL WIRE #12 TO #8 SHALL BE STRIPPED COPPER TYPE THHN-THHN CONDUCTORS #4 AND LARGER SHALL BE COPPER TYPE ALUM.
13. ALL WIRE SHALL BE PROTECTED BY CONDUIT. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE O.S.H.A. MAXIMUM PERMITTED CONDUIT CURBENT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 25,000 A.M.F. UNLESS OTHERWISE INDICATED.
14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDING AS REQUIRED BY ALL APPLICABLE CODES.
15. REPAIR ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
16. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ENCHURING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR PIPING, WATER, OR GAS, THERE SHALL BE CLEARLY DAMAGED UNLESS OTHERWISE INDICATED. REMOVING STEEL WILL NOT BE DRILLED IN CUT OR DAMAGED UNLESS OTHERWISE INDICATED.
17. ALL MATERIALS SHALL BE UTILIZED.

1. ELECTRICAL METALLIC TUBING SHALL BE U.L. LABEL VALVED ZINC COATED WITH ZINC INTERIOR. RIGID CONDUIT SHALL BE U.L. LABEL VALVED ZINC COATED WITH ZINC INTERIOR.

17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
18. COORDINATE THE ELECTRICAL SERVICE WITH UTILITY PROVIDER.
19. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO DISPATCH COMMUNICATIONS ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
20. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, AND FALL POTENTIAL GROUNDING TESTS FOR ALL ELECTRICAL SYSTEMS. PROVIDE TEST REPORTS TO THE OWNER. ALL WORK SHALL BE FREE OF DEFECTS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDISTURBED CONDITION.

1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERIES, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

- [illegible]

[illegible]

DRAWN BY: 7	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	

COORDINATES:

COORDINATES:	N 42.295119° W 71.179381°
APPROXIMATE ADDRESS**	

DEDHAM STREET  
NEWTON, MA 02458

SHEET TITLE  
GENERAL NOTES  
SHEET NUMBER  
508

10

VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

NEWTON S MA SC03  
LOCATION CODE:  
430551

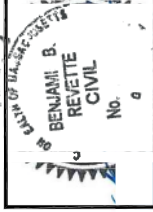
FUZE ID:  
2505837

## CONSTRUCTION DRAWINGS

0	04/10/20			FOR SUBMITTAL	
A	03/24/20			FOR COMMENT	



**Dewberry Engineers Inc.**  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310

DRAWN BY:  SK

REVIEWED BY:

CHECKED BY:

PROJECT NUMBER

109 NUMBER

\_\_\_\_\_

117/110

COORDINATES:

N 42 29 51 19.°

W 71.179381°

APPROXIMATE ADDRESS\*\*

DEDHAM STREET  
NEWTON, MA 02458

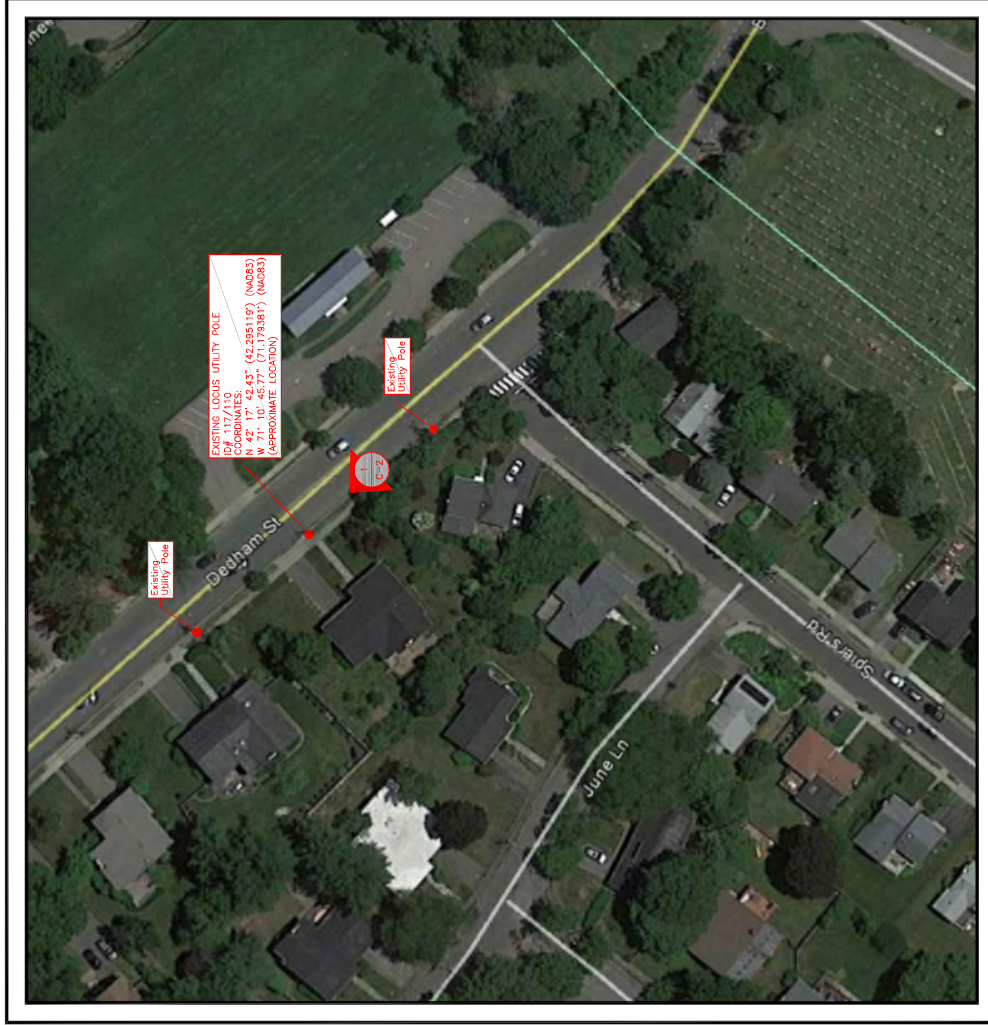
SHEET TITLE

1001

LOCUS  
AERIAL MAP

SHEET NUMBER

**508-20**



AERIAL MAP  
SCALE: N.T.S.

1



## NOTES:

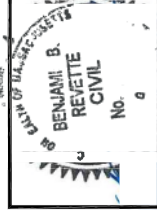
1. NORTH ARROW SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. POWER & FIBER TO BE COME FROM OVERHEAD WIRES. SERVICE SOURCES TO BE DETERMINED BY OTHERS.
4. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DEMPSEY ENGINEERS INC. ON 02/17/2022.
5. AERIAL MAP NAD83 COORDINATES & NAD83 03/16/2022. BASED ON GOOGLE EARTH OBTAINED ON 02/17/2022.
6. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VERTON WIRELESS SPECIFICATIONS.
7. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS BY DEMPSEY ENGINEERS INC. DATED 02/28/2022.


NEWTON S MA SC03  
LOCATION CODE:  
430551  
FUZE ID:  
2505837

CONSTRUCTION DRAWINGS	
0	04/10/20
A	03/24/20
	FOR SUBMITTAL
	FOR COMMENT



**Dewberry Engineers Inc.**  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: 	SK
REVIEWED BY: JCM	
CHECKED BY: BBR	
PROJECT NUMBER: 50121487	
JOB NUMBER: 50121590	
POLE ID:	

117/110

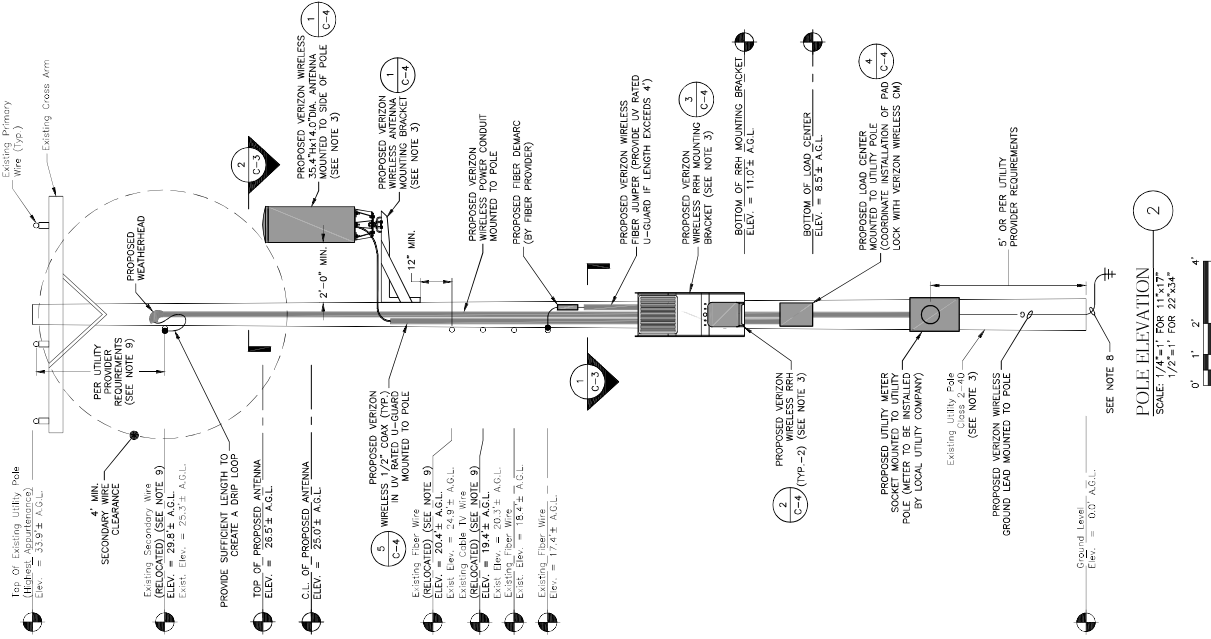
COORDINATES:	N 42.295119° W 71.179381°
APPROXIMATE ADDRESS**	DEDHAM STREET NEWTON, MA 02458
SHEET TITLE	

POLE PHOTO & ELEVATION

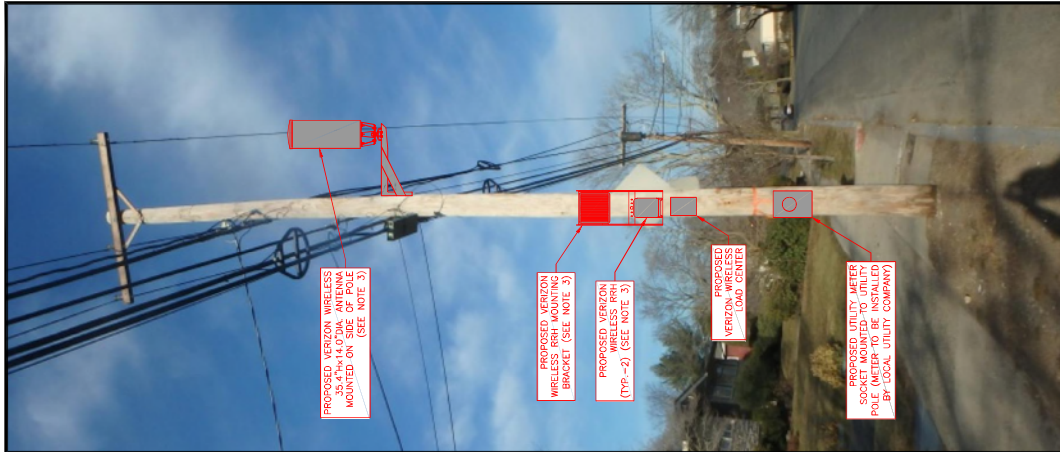
508-20

SHEET NUMBER

C-2



1. SLOPE SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & IN ACCORDANCE WITH STRUCTURE'S DEWEY ENGINEERS INC. DATED 02/28/20.
4. POWER & FIBER TO COME FROM OVERHEAD WIRES. SERVICE SOURCES TO BE DETERMINED.
5. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DEWEY ENGINEERS INC. ON 02/12/2020.
6. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VARIOUS WIRELESS SPECIFICATIONS.
7. A.G.L.= ABOVE GROUND LEVEL.  
C.L.= CENTER LINE
8. CONTACT DTE USE (888)-444-7233 FOR VERIFICATION OF UNDERGROUND UTILITIES PRIOR TO EQUIPMENT INSTALLATION.
9. OVERHEAD WIRES TO BE INSTALLED/RELOCATED BY UTILITY COMPANY PER UTILITY PROVIDER REQUIREMENTS.
10. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS.



POLE PHOTO  
SCALE: N.T.S.

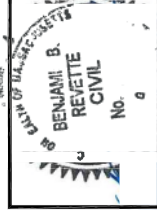


VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

NEWTON S MA SC03  
LOCATION CODE:  
430551  
FUZE ID:  
2505837

CONSTRUCTION DRAWINGS	
0	04/10/20 FOR SUBMITTAL
A	03/24/20 FOR COMMENT

**Dewberry**  
Dewberry Engineers Inc.  
100 PARK STREET  
SUITE 700  
BOSTON, MA 02110  
TEL: 617.662.8600  
FAX: 617.662.3310



DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	5021487
JOB NUMBER:	5021590
POLE ID:	

117/110

CORNERTS:
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N 42.295119°  
W 71.179381°

APPROXIMATE ADDRESS\*\*

DEHAM STREET  
NEWTON, MA 02458

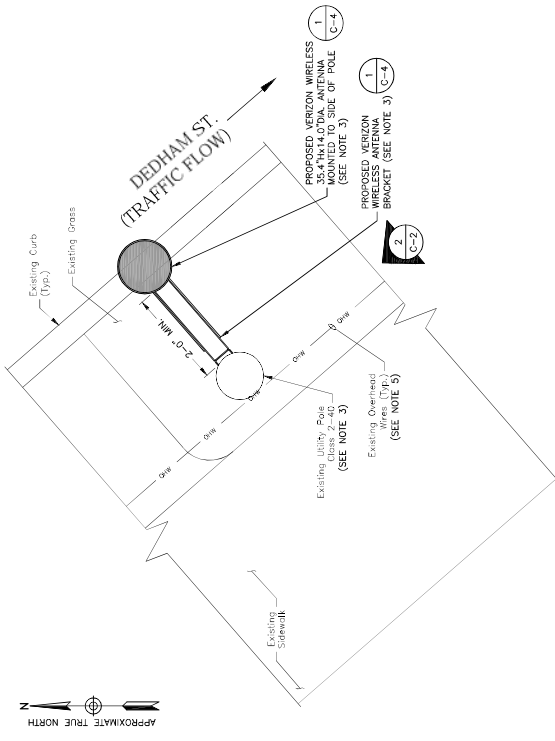
SHEET TITLE

EQUIPMENT & ANTENNA  
PLANS

SHEET NUMBER

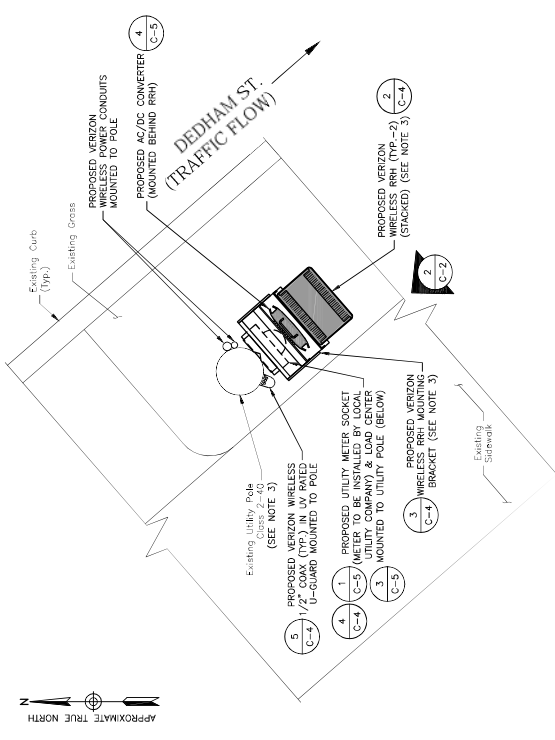
C-3

508-20



NOTE:  
1. SOME EXISTING/PROPOSED EQUIPMENT NOT SHOWN FOR CLARITY.

ANTENNA PLAN  
SCALE: 3/8"=1' FOR 11'x17'  
3/4"=1' FOR 22'x34'



NOTE:  
1. SOME EXISTING/PROPOSED EQUIPMENT NOT SHOWN FOR CLARITY.

EQUIPMENT PLAN  
SCALE: 3/8"=1' FOR 11'x17'  
3/4"=1' FOR 22'x34'

- NOTES:
1. NORTH ARROW SHOWN AS APPROXIMATE.
  2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
  3. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & IN ACCORDANCE WITH STRUCTURAL ANALYSIS OF DEWBERRY ENGINEERS INC. DATE 02/28/20.
  4. POWER & FIBER TO COME FROM OVERHEAD WIRES. SERVICE SOURCES TO BE DETERMINED.
  5. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 02/17/20.
  6. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VERIZON WIRELESS SPECIFICATIONS.
  7. A.G.L.= ABOVE GROUND LEVEL.  
C.L.= CENTER LINE
  8. CONTACT DIS SITE (888-344-7233) FOR VERIFICATION OF UNDERGROUND UTILITIES PRIOR TO EQUIPMENT INSTALLATION.
  9. OVERHEAD WIRES TO BE INSTALLED/RELOCATED BY UTILITY COMPANY PER UTILITY PROVIDER REQUIREMENTS.
  10. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VERIZON WIRELESS SPECIFICATIONS.





VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

NEWTON S MA SC03  
LOCATION CODE:  
430551  
FUZE ID:  
2505837

CONSTRUCTION DRAWINGS	
0	04/10/20 FOR SUBMITTAL
A	03/24/20 FOR COMMENT

**Dewberry**  
Dewberry Engineers Inc.  
100 WALKER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.665.8600  
FAX: 617.665.3310



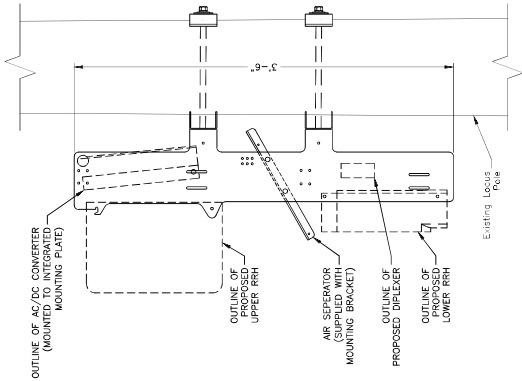
DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	5021487
JOB NUMBER:	5021590
POLE ID:	

117/110  
COORDINATES:  
N 42.295119°  
W 71.179381°  
APPROXIMATE ADDRESS\*\*

DEDDHAM STREET  
NEWTON, MA 02458

SHEET TITLE  
EQUIPMENT DETAILS  
SHEET NUMBER  
C-4

508-20



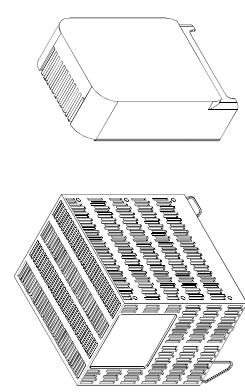
- NOTE:
1. INSTALL RRH MOUNTING BRACKET USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.
  2. VERIFY FINAL MOUNTING BRACKET SPECIFICATIONS WITH VERIZON WIRELESS CM PRIOR TO CONSTRUCTION.

RRH MOUNTING BRACKET  
SCALE: N.T.S.



DIPLER SPECIFICATION
DIMENSIONS: 4.8" x 7.9" x 3.3"
WEIGHT: 7.64 LBS.

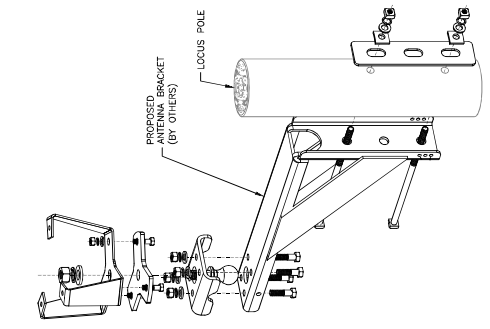
DIPLER DETAIL  
SCALE: N.T.S.



DIMENSIONS:
13.9" x 4.1" x 4.9"
WEIGHT: 21.44 LBS
QUANTITY: 1 TOTAL

- NOTE:
1. CONTRACTOR TO VERIFY WITH CONSTRUCTION SPECIFICATIONS PRIOR TO CONSTRUCTION.

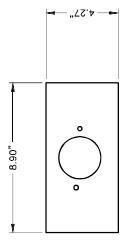
TYPICAL RRH DETAILS  
SCALE: N.T.S.



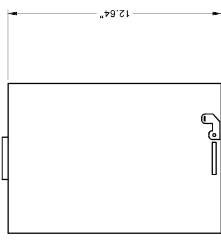
MOUNTING BRACKET

- NOTE:
1. INSTALL ANTENNA USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.
  2. VERIFY FINAL MOUNTING BRACKET SPECIFICATIONS WITH VERIZON WIRELESS CM PRIOR TO CONSTRUCTION.

ANTENNA & MOUNTING BRACKET DETAIL  
SCALE: N.T.S.



PLAN VIEW



FRONT VIEW

- NOTE:
1. INSTALL LOAD CENTER USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.

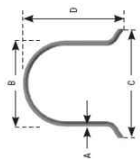
100 AMP LOAD CENTER DETAIL  
SCALE: N.T.S.

U RISER LINE GUARD					
SITE PROT. (P/N) ON APPROVED EQUAL	DESCRIPTION	A	B	C	D
12-21010	2"x10" RISER LINE GUARD	1/8"	2-3/8"	4-1/2"	2-3/8"
12-31010	3"x10" RISER LINE GUARD	1/8"	3-1/2"	6"	3-1/2"
12-41010	4"x10" RISER LINE GUARD	1/8"	4-1/2"	6-1/2"	4-1/2"
U-GUARD SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS & RECOMMENDATIONS.					

U-GUARD DETAIL  
SCALE: N.T.S.



- NOTE:
1. BRIDGE STAINLESS STEEL LAG BOLT ANCHORS AS REQUIRED.





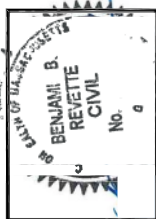
NEWTON S MA SC03  
LOCATION CODE:  
430551  
FUZE ID:  
2505837

## CONSTRUCTION DRAWINGS

0	04/10/20	FOR SUBMITTAL
A	03/24/20	FOR COMMENT



**Dewberry Engineers Inc.**  
59 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: 7	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	

117/110

COORDINATES:

N	42.295119°
W	71.179381°

APPROXIMATE ADDRESS\*\*

DEDHAM STREET  
NEWTON, MA 02458

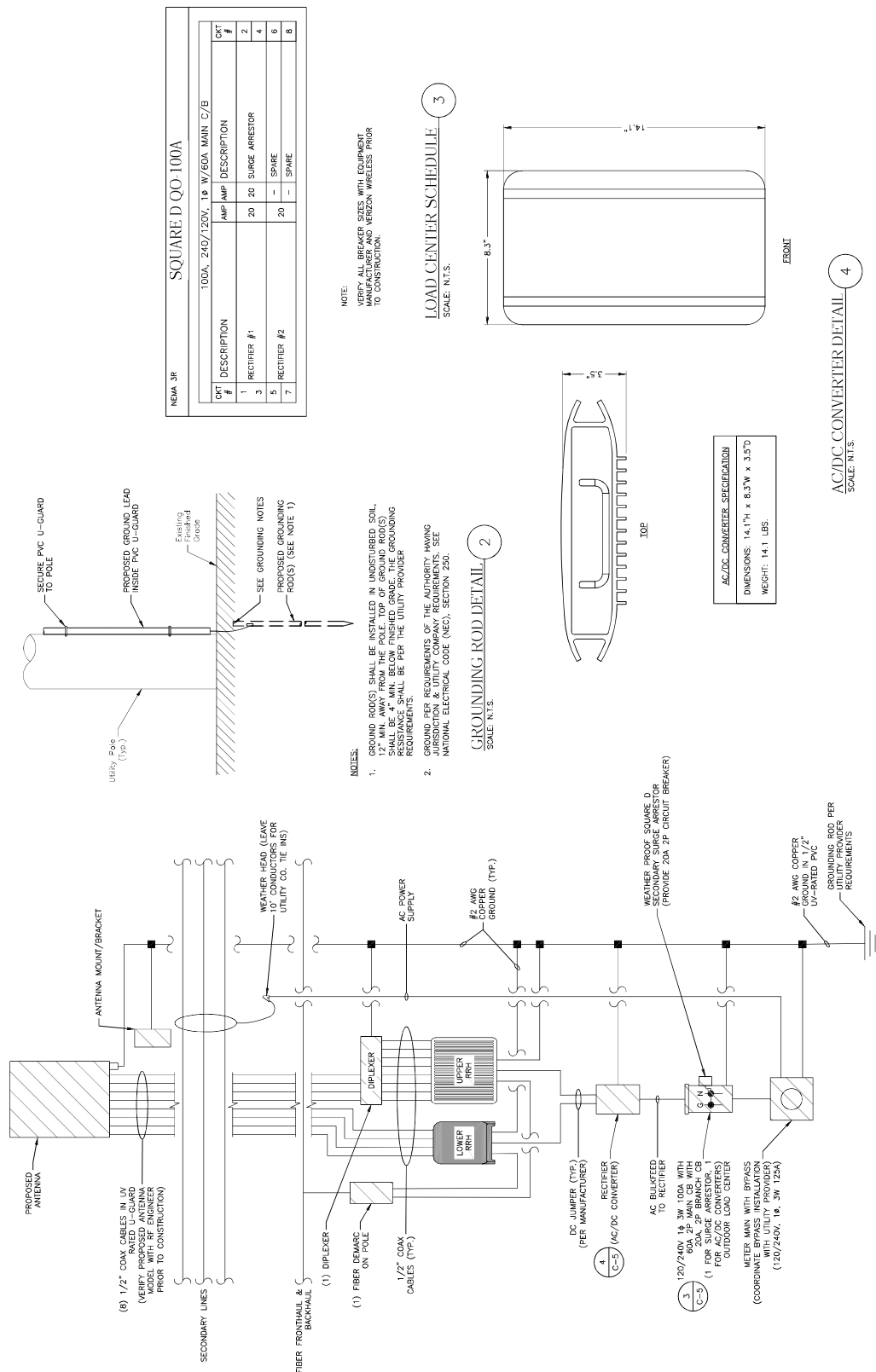
3711 133HS

WIRING DIAGRAM &amp; DETAILS 50

SHEET NUMBER

51

508-20



NOTES:

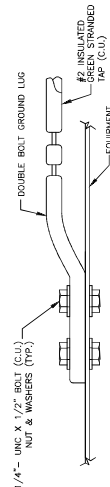
1. FINAL ELECTRICAL AND FIBER SOURCE PENDING FINAL DESIGN & UTILITY APPROVAL.
2. UTILITY WIRELESS TO BE INSTALLED INTO EXISTING GROUNDING SYSTEM, IF GROUNDING SYSTEM IS NOT AVAILABLE, NEW GROUNDING SYSTEM WILL BE INSTALLED. UTILITY WIRELESS TO NOTIFY POLE OWNER & FINAL GROUNDING SYSTEM PER UTILITY PROVIDER & VERIZON WIRELESS REQUIREMENTS AND SPECIFICATIONS.
3. VERIFY FINAL ANTENNA DESIGN WITH RF ENGINEER.
4. CONTACT DIG SAFE (688-344-7233) FOR VERIFICATION OF UNDERGROUND UTILITIES PRIOR TO

## WIRING DIAGRAM

SCALE: N.T.S.

## AC/DC CONVERTER DETAIL 1

SCALE: N.T.S.

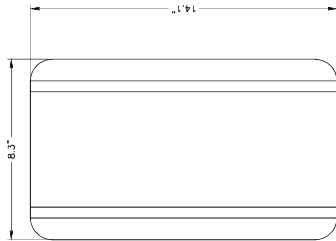


## GROUNDING DETAIL

SCALE-NTS

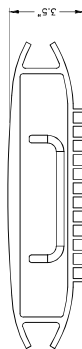
### LOAD CENTER SCHEDULE

SCALE: N.T.S.



### GROUNDING ROD DETAIL

SCALE: NTS



AC/DC CONVERTER SPECIFICATION
DIMENSIONS: 14.1"H x 8.3"W x 3.5"D WEIGHT: 14.1 LBS.

# EXHIBIT F

February 28, 2020

Verizon Wireless  
118 Flanders Road  
Westborough, MA 01581

**Re:   Newton S MA SC03  
      42°17'42.43"N 71°10'45.77"W  
      Dedham Street  
      Newton, MA 02458**

To Whom It May Concern:

Dewberry Engineers Inc. (Dewberry) has evaluated the proposed equipment installation by Verizon at the above referenced site. The existing pole is a Class 2-40 southern pine timber utility pole set approximately 7'-0" into the ground. See latest Construction Drawings by Dewberry for line elevations and equipment specifications.

The existing utility pole was analyzed in accordance with National Electric Safety Code (NESC) Grade "C" construction standards and Massachusetts State Building Code – 780 CMR (Amendments to IBC 2015). Analysis assumes wire types and wire diameters using photos of the existing pole. Per our analysis, **the existing pole is adequate** to support the proposed installation as shown in Construction Drawings by Dewberry.

Our assessment is based on the assumption that the utility pole and associated accessories are constructed in conformance with all applicable state and local building codes. If during construction any damage or deterioration is noticed, Dewberry is to be notified to assess any deviation from the assumed condition. The addition or reconfiguration of any new equipment not accounted for in this assessment will require further analysis and design.

If you have any questions, please do not hesitate to call me at 617-531-0810.

Sincerely,  
**Dewberry Engineers Inc.**

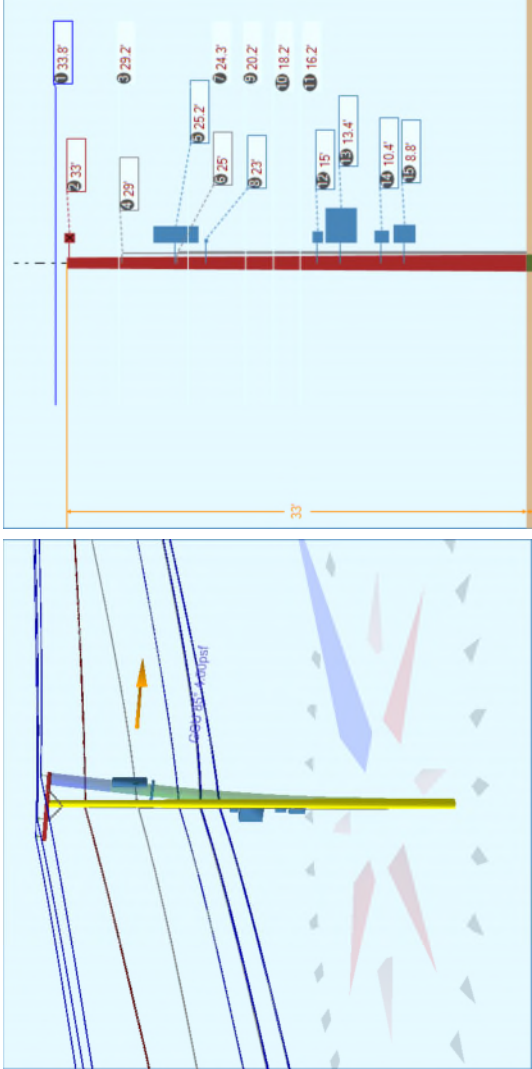
  
  
Sahnoune Abed, P.E.  
Structural Project Engineer



Pole Num:	117/110	Pole Length / Class:	40 / 2	Code:			
Street Address	Dedham Street	Species:	SOUTHERN PINE	NESC Rule:	NESC	Structure Type:	Unguyed Tangent
City, State	Newton, MA	Setting Depth (ft):	7.00	Construction Grade:	Rule 250B	Status	Unguyed
Zip Code	02458	G/L Circumference (in):	38.10	Loading District:	C	Pole Strength Factor:	0.85
Designer	SMS	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	Heavy	Transverse Wind LF:	1.75
Checker	SA	Allowable Stress (psi):	6,800	Wind Speed (mph):	0.50	Wire Tension LF:	1.00
Approver	SA	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	39.53	Vertical LF:	1.90
Latitude:	42 Deg 17 Min 42.430000	Sec N	Longitude:	71 Deg 10 Min 45.770000	Sec W	Elevation:	0 Feet

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	33.5	84.8
Groundline	33.5	84.8
Vertical	15.6	84.8

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	32,444	84.8
Groundline	32,444	84.8
GL Allowable	99,255	
Overturn	96,000	



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**O-Calculc® Pro Analysis Report**

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 67.9°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	857	63.1	22,843	70.4	23.0	1,568	2,536	22	1,590	23.4
Comms	216	15.9	4,743	14.6	4.8	326	839	7	333	4.9
GenericEquipments	57	4.2	995	3.1	1.0	68	468	4	72	1.1
Pole	185	13.6	3,115	9.6	3.1	214	2,099	18	232	3.4
Crossarms	2	0.2	57	0.2	0.1	4	101	1	5	0.1
Risers	36	2.7	613	1.9	0.6	42	103	1	43	0.6
Insulators	4	0.3	79	0.2	0.1	5	91	1	6	0.1
Pole Load	1,357	100.0	32,444	100.0	32.7	2,227	6,236	54	2,281	33.5
Pole Reserve Capacity			66,811		67.3	4,573			4,519	66.5

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 67.9°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Exist.	1,079	79.5	27,721	85.4	27.9	1,903	3,566	31	1,933	28.4
Prop.	93	6.9	1,607	5.0	1.6	110	570	5	115	1.7
Pole	185	13.6	3,115	9.6	3.1	214	2,099	18	232	3.4
Totals:	1,357	100.0	32,444	100.0	32.7	2,227	6,236	54	2,281	33.5

**Detailed Load Components:**

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Unknown	CATV .50	16.23	7.82	0.5700		0.600	100.0	0.0	100.0			-55	197	142
Unknown	TELE 1.25	16.21	7.08	1.2500		0.600	100.0	0.0	100.0			-49	197	148
Unknown	CATV .50	16.16	7.57	0.5700		0.600	100.0	0.0	100.0			-53	196	143
Unknown	CATV .50	16.23	7.82	0.5700		0.600	101.0	180.0	101.0			-56	199	143
Unknown	TELE 1.25	16.21	7.08	1.2500		0.600	101.0	180.0	101.0			-50	198	148
Unknown	CATV .50	16.16	7.57	0.5700		0.600	101.0	180.0	101.0			-54	198	148
Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	18.08	7.81	0.8300		0.275	100.0	0.0	100.1			-34	205	175
Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	18.08	7.03	0.8300		0.275	100.0	0.0	100.1			-30	205	175

Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.02	7.42	0.8300	0.275	100.0	0.0	100.1	-32	204	172
Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.08	7.81	0.8300	0.275	101.0	180.0	101.0	-34	207	173
Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.08	7.03	0.8300	0.275	101.0	180.0	101.0	-30	207	177
Unknown	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.02	7.42	0.8300	0.275	101.0	180.0	101.0	-32	206	174
Unknown	CATV .50	Exist.	20.14	7.55	0.5700	0.600	100.0	0.0	100.0	-52	208	156
Unknown	CATV .50	Exist.	20.14	7.02	0.5700	0.600	100.0	0.0	100.0	-48	208	161
Unknown	CATV .50	Exist.	20.14	7.55	0.5700	0.600	101.0	180.0	101.0	-53	210	157
Unknown	CATV .50	Exist.	20.14	7.02	0.5700	0.600	101.0	180.0	101.0	-49	210	162
Secondary	TRIPLEX 6 AWG	Exist.	29.22	6.72	0.5800	0.113	100.0	0.0	100.0	-23	356	333
Secondary	TRIPLEX 6 AWG	Exist.	29.28	6.72	0.5800	0.113	100.0	0.0	100.0	-23	357	334
Secondary	TRIPLEX 6 AWG	Exist.	29.22	6.72	0.5800	0.113	101.0	180.0	101.0	-24	360	336
Secondary	TRIPLEX 6 AWG	Exist.	29.28	6.72	0.5800	0.113	101.0	180.0	101.0	-24	361	337
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	44.37	0.3980	0.87	101.0	180.0	101.0	-311	1,285	-18,775
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	44.37	0.3980	0.54	100.0	0.0	100.0	-588	1,273	20,392
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	18.89	0.3980	0.87	101.0	178.0	101.0	-137	1,306	-16,870
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	18.89	0.3980	0.54	100.0	0.0	100.0	-258	1,273	20,722
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	44.37	0.3980	0.87	101.0	180.0	101.0	280	1,285	-18,183
Primary	ACSR 1/0 AWG 6/1 RAVEN	Exist.	33.81	44.37	0.3980	0.54	100.0	0.0	100.0	529	1,273	21,509
Twist/Braid Bundle	6M	Exist.	29.25	6.72	0.2420	0.45	100.0	0.0	100.0	-23	1,144	32,941
Twist/Braid Bundle	6M	Exist.	29.25	6.72	0.2420	0.58	101.0	180.0	101.0	-23	1,155	-22,741
Totals:									9,533	-1,334	14,684	22,883

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at Gl* (ft-lb)
Overlashed Bundle	6M	Exist.	16.25	7.54	0.2420	1.10	100.0	0.0	100.0	2,837	17,347	-25	634	17,955
Overlashed Bundle	6M	Exist.	16.25	7.54	0.2420	1.10	101.0	180.0	101.0	2,881	-17,614	-26	641	-16,999
Overlashed Bundle	6M	Exist.	18.17	7.42	0.2420	1.97	100.0	0.0	100.1	1,761	12,036	-22	695	12,708
Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.15	7.86	0.8300	0.275	100.0	0.0	100.1			-34	206	1508-20
Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.15	6.97	0.8300	0.275	100.0	0.0	100.1			-29	206	1508-20
Overlashed Bundle	6M	Exist.	18.17	7.42	0.2420	1.13	101.0	180.0	101.0	2,466	-16,856	-23	702	-16,178

Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.15	7.86	0.8300	0.275	101.0	180.0	101.0	-35	208	173	
Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	18.15	6.97	0.8300	0.275	101.0	180.0	101.0	-30	208	178	
Overlashed Bundle	6M	Exist.	20.17	7.29	0.2420	0.98	100.0	0.0	100.0	2,311	17,534	18,262	
Overlashed Bundle	6M	Exist.	20.17	7.29	0.2420	1.11	101.0	180.0	101.0	2,124	-16,119	-15,384	
Overlashed Bundle	6M	Exist.	24.30	7.03	0.2420	1.25	100.0	0.0	100.0	1,291	11,806	12,784	
Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	24.27	6.89	0.8300	0.275	100.0	0.0	100.0	12	313	325	
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	24.28	7.15	0.5930	0.130	100.0	0.0	100.0	13	313	325	
Overlashed Bundle	6M	Exist.	24.30	7.03	0.2420	1.30	101.0	180.0	101.0	1,238	-11,318	-10,352	
Fiber	BELOPTIX MLD6144 - 144 FIBERS - OUTDOOR (0.83)	Exist.	24.27	7.19	0.8300	0.275	101.0	180.0	101.0	-16	316	299	
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	24.28	6.92	0.5930	0.130	101.0	180.0	101.0	-10	316	306	
Totals:											-3,184	8,209	4,751

Generic Equipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	Side Mount	Prop.	23.00	18.61	90.0	0.0	15.40	3.00	28.00	--	3.00	42	20	62
Cylinder	Antenna	Prop.	25.25	30.61	90.0	0.0	33.70	38.70	--	12.00	--	151	497	648
Box	Diplexer	Prop.	15.00	9.12	180.0	0.0	12.00	9.00	5.00	--	8.30	-7	51	45
Box	RRH Mount	Prop.	13.37	13.22	180.0	0.0	150.00	27.00	10.00	--	25.00	-118	283	165
Box	Load Center	Prop.	10.42	8.91	180.0	0.0	20.00	12.65	4.00	--	8.90	-11	41	30
Box	Utility Meter	Prop.	8.80	9.01	180.0	0.0	15.00	19.00	4.00	--	13.00	-8	54	46
<b>Totals:</b>												<b>50</b>	<b>946</b>	<b>996</b>

Crossarm		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Normal	CROSSARM 3-1/2 X 4-1/2 X 8	Exist.	33.00	5.73	180.0	180.0	53.00	4.50	3.50	96.00	-18	75	57
<b>Totals:</b>											<b>-18</b>	<b>75</b>	<b>57</b>

Riser		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser 230.0°	Riser	Prop.	29.00	6.25	230.0	230.0	29.00	348.00	1.00	1.00	348.00	-14	178	1,082
Riser 160.0°	Riser	Prop.	25.00	6.25	160.0	160.0	25.00	300.00	2.00	2.00	300.00	0	450	418
<b>Totals:</b>												<b>-14</b>	<b>628</b>	<b>600</b>

O-Calculc® Pro Analysis Report

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Bolt	Exist.	16.25	0.00	270.0	0.0	5.00	3.00	0.00	-6	0	-6
Bolt	Exist.	18.17	0.00	270.0	0.0	5.00	3.00	0.00	-5	0	-5
Bolt	Exist.	20.17	0.00	270.0	0.0	5.00	3.00	0.00	-5	0	-5
Bolt	Exist.	24.30	0.00	0.0	0.0	5.00	3.00	0.00	2	0	2
Bolt	Exist.	24.30	0.00	180.0	180.0	5.00	3.00	0.00	-2	0	-2
Bolt	Exist.	29.25	0.00	270.0	0.0	5.00	3.00	0.00	-5	0	-5
Pin	Pin Insulator - 5 kV	33.19	44.00	262.6	0.0	6.00	3.50	7.50	-41	41	0
Pin	Pin Insulator - 5 kV	33.19	18.00	252.3	0.0	6.00	3.50	7.50	-18	41	23
Pin	Pin Insulator - 5 kV	33.19	-44.00	97.4	0.0	6.00	3.50	7.50	37	41	77
Totals:										122	79

Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	21.31	33.33	11.23	18.52	7.96	12.13	1.60e+6	60.00	57.00	33.00	40.086	399.73	6.41

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## **ASSUMPTIONS & LIMITATIONS**

This report was developed using general project information provided by general field observations, reference information and utility companies' guidelines. All pole information is based on a visual ground inspection. All recommendations pertain to the existing and the proposed pole construction, location, and loading as described in this report. Dewberry assumes no responsibility for failures caused by factors not considered in our report. These include but are not limited to the following:

1. Improper pole maintenance
2. Improper pole manufacturing and/or construction
3. Improper pole installation & associated equipment (Out of plumb)
4. Missing, corroding, decaying and/or deteriorating components
5. Improper original construction and/or soil preparation with the proper base embedment

Dewberry assumes no responsibility for modifications completed prior to or hereafter in which Dewberry was not directly involved. These modifications include but are not limited to the following:

1. Replacing or strengthening pole components
2. Installing or removing antenna mounting components
3. Installing or removing utility components
4. Changing loading configurations

Utility companies are responsible for verifying the proposed loading on the pole is consistent with the loading applied to the pole within this report.

# EXHIBIT G



2/6/2020

To: City of Newton

Transmitted via email

RE: Verizon Wireless Small Cell Sites

Dear City of Newton,

Verizon is installing additional wireless telecommunications facilities in order to meet the growing demand for Verizon Wireless service by residents, businesses, visitors, and emergency responders.

To ensure general public safety, it is important that you contact Verizon Wireless personnel at least 24 hours in advance should general maintenance need to be performed in areas of potential concern as marked on the next page of this document. This is required to comply with FCC guidelines and ensure the environment is safe for general maintenance workers who may require RF Safety & Awareness training. With notification, Verizon Wireless is able to evaluate appropriate actions needed relating to the antennas and proximity of the work location.

Thank you for your inquiry. Verizon has a process to deactivate power on small cells (regardless of whether the small cell is 4G or 5G) while work is being done on the pole (including joint use poles). The information needed to have a small cell powered down for work to occur on the pole (including contact numbers and pole identifiers) is provided at a safe distance from the small cell on the pole itself. Please contact Verizon Wireless personnel at least 24 hours in advance if you need to perform maintenance at that site. If you have any additional questions, our point of contact in that area is Luis Teves.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. The Federal Communications Commission (FCC) has developed safety rules for human exposure to RF emissions in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. These rules can be found at 47 C.F.R § 1.1310. No matter which generation of technology we use, all Verizon equipment must comply with these safety requirements.

The FCC supported and adopted the standards after examining the RF research that scientists in the US and around the world conducted for decades. The research continues to this day, and agencies continue to monitor it. Based on that research, federal agencies have concluded that equipment that has been deployed in a manner that complies with the safety standards poses no known health risks. You can obtain further information about the safety of RF emissions from cell towers on the FCC's website, which you can access via this link: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html>.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to [VZWRFCompliance@verizonwireless.com](mailto:VZWRFCompliance@verizonwireless.com). Please contact your local Verizon Wireless resource below if you have any additional questions.

Contact Name	Contact Email	Contact Phone
Luis Teves	<a href="mailto:Luis.Teves@VerizonWireless.com">Luis.Teves@VerizonWireless.com</a>	508-479-3197

Sincerely,

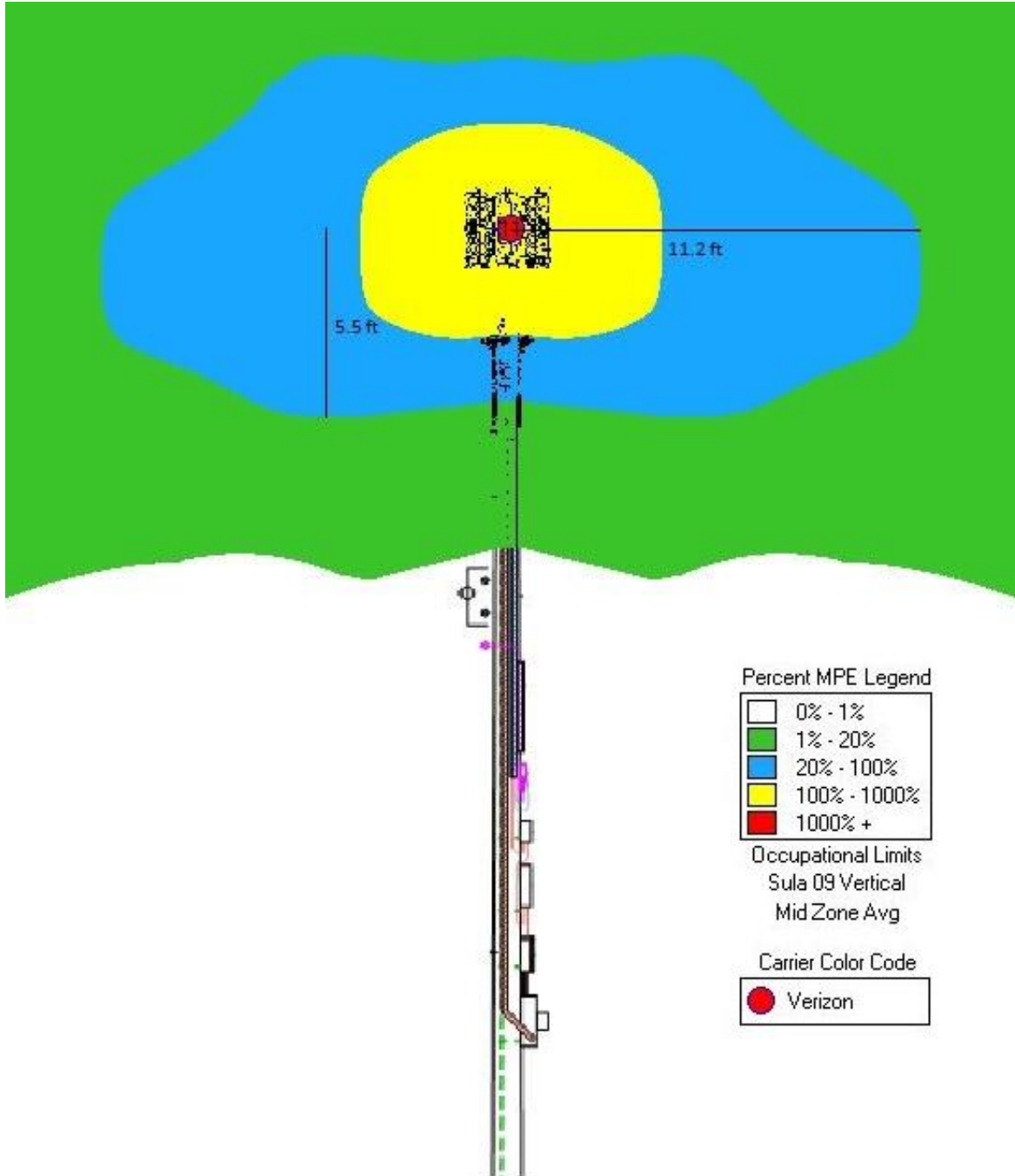
Michael Creamer  
Sr Manager - RF Design  
Verizon Wireless



## Verizon Wireless (VZW) Radiofrequency (RF) Emissions Map

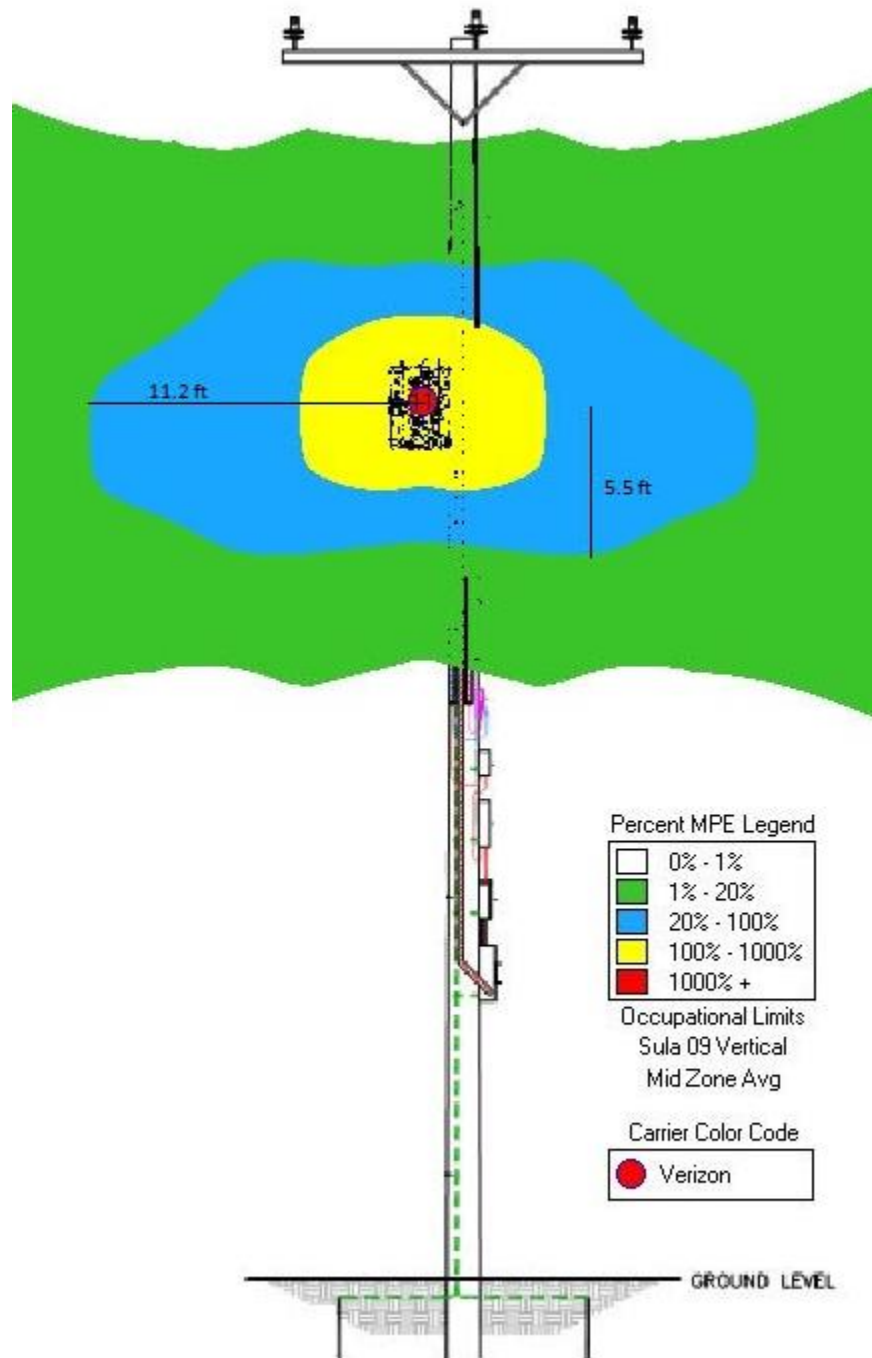
The following site layout represents a current snapshot in time of the predicted Verizon Wireless RF emissions from transmitting antennas on this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.

Top Mount:



Color	% Occupational MPE	Instructions
	0 to 20	Safe In Relation to VZW. Contact Other Carriers Before Entering This Area
	20 to 100	
	Greater Than 100	
	Greater Than 1000	

Side Mount:



Color	% Occupational MPE	Instructions
Green	0 to 20	Safe In Relation to VZW. Contact Other Carriers Before Entering This Area
Blue	20 to 100	
Yellow	Greater Than 100	
Red	Greater Than 1000	

## Property Owner Responsibilities (M.E.N.U)

RF exposure safety and the protection of every licensee's infrastructure are very important. Property owners and licensees have a shared responsibility in maintaining a safe and secure RF environment. Property owners can help in this significant endeavor by:

- ⇒ **Maintaining** all necessary wireless licensee contact information.
- ⇒ **Enforcing** restricted access (help maintain a Controlled Environment). **Ensuring** all building/maintenance personnel are aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.
- ⇒ **Notifying** all licensees when any non-carrier requests access to any area with antennas **at least 24 hours in advance**.
- ⇒ **Understanding** that compliance with the FCC and OSHA can be achieved with RF Exposure levels above the applicable limit if the proper signage, physical/indicative barrier, and access restrictions are implemented. Commitment to compliance and willingness to cooperate are essential.



### **For General RF Safety & Awareness Questions**

Verizon Wireless

E-mail: [VZWRFCCompliance@vzw.com](mailto:VZWRFCCompliance@vzw.com)

E-mail Subject: "ATTN: RF Compliance"

### **In The Event That Emergency Maintenance Is Required**

24-Hour Network Operations Center:

**1-800-264-6620**

### **RF Safety & Awareness Training Contacts**

Dtech Communications

([michelle@dtechcom.com](mailto:michelle@dtechcom.com).)

EBI Consulting

[spenta@ebiconsulting.com](mailto:spenta@ebiconsulting.com)

SiteSafe

( [cbagley@sitesafe.com](mailto:cbagley@sitesafe.com) )

Waterford Consultants

[Sbaier-  
anderson@waterfordconsultants.com](mailto:Sbaier-anderson@waterfordconsultants.com)

## Radio Frequency (RF) Emissions

SAFETY  
&  
AWARENESS





## Federal Compliance Requirements

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards incorporate prudent margins of safety. The following represents an overview of the most applicable information:

### Classifications for Exposure Limits

#### Occupational

Persons are "exposed as a consequence of their employment" and are "fully aware of the potential for exposure and can exercise control over their exposure".

#### General Population

Any persons that "may not be made fully aware of the potential for exposure or cannot exercise control over their exposure".

Those in this category do not have RF Safety & Awareness Training.

### Ensuring Compliance With FCC Guidelines

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines.

Wireless Licensees are required by law to implement the following:

- **Restrict access** (lock doors/ladders)
- **Post notification signage on every access point** to increase awareness of the potential for exposure BEFORE one enters an area with antennas.
- **Place additional notification signage and visual indicators** in an area with antennas (beyond an access point) where RF exposure levels may start to exceed the FCC's limits.

## Compliance Materials

### Notification Signage

**(Notice) RF Guidelines** - Informs viewer of the basic safety guidelines for working in an RF Environment.

**Information** - Provides relevant contact information for any questions or requests.



**(Blue) Notice** - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.



**(Yellow) Caution** - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.



**(Red) Warning** - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

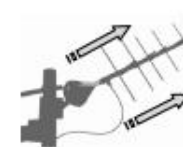
### Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.



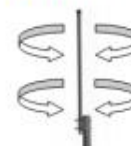
## Antenna Safety

### Antenna Types



**Yagi** - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

**Panel** - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**



**Whip** - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

**Microwave** - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



### When In An Environment With Antennas:

- ⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.
- ⇒ Never touch an antenna. Assume all are active.
- ⇒ Read and obey ALL signs on an access point.
- ⇒ Read and obey ALL signs in the environment with antennas.
- ⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.
- ⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- ⇒ Contact all wireless licensees **at least 24 hours in advance** of scheduled maintenance.



February 3, 2020

City of Newton

1000 Commonwealth Ave

Newton Centre, MA 02459

Re: Authorization to Represent Cellco Partnership

To Whom It May Concern:

Cellco Partnership, a Delaware general partnership, d/b/a Verizon Wireless ("Verizon Wireless") hereby authorizes its attorneys, Robinson & Cole, LLP, to represent Verizon Wireless before the City of Newton City Council and any other Town boards or offices, in applying for any and all necessary approvals for proposed small cell wireless facilities on utility poles in the City of Newton, and to complete and sign any related applications on its behalf.

A copy of this letter shall be regarded as having the same effect as the original.

Sincerely,

A handwritten signature in blue ink, appearing to be "SC", written over a horizontal line. The signature is stylized and loops around the line.

[Sean Conway, Principal Engineer – RE/Regulatory]

Cellco Partnership  
d/b/a Verizon Wireless  
118 Flanders Road  
Westborough, MA 01581

ALICIA R. SELMAN

One Boston Place, 25th floor  
Boston, MA 02108-4404  
Main (617) 557-5900  
Fax (617) 557-5999  
aselman@rc.com  
Direct (617) 557-5923

November 13, 2020

Cassidy Flynn  
Committee Clerk  
Newton City Council  
1000 Commonwealth Avenue  
Newton Centre, MA 02459

Re: Cellco Partnership d/b/a Verizon Wireless - Application Fee for Newton City Council Grant of Location Petitions

Dear Ms. Flynn:

As required by the Newton City Council Grant of Location Procedures and Standards dated August 12, 2019, and Section 17-3 of the Newton City Code, Verizon Wireless encloses a check in the amount of \$500 as the application fee for two Grant of Location Petitions that were filed on November 13, 2020 for proposed wireless communications facilities attachments to an existing utility pole located near 983 Dedham Street and an existing utility pole located near 30 Beethoven Avenue, Newton, MA.

Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Alicia R. Selmán', followed by a long horizontal line.

Alicia R. Selmán, Esq.  
Attorney for Cellco Partnership d/b/a Verizon Wireless

Enclosure

**Robinson+Cole**

Operating Account

LAW OFFICES

One Boston Place

Suite 2500

Boston, MA 02108-4404

BANK OF AMERICA

51-57/119 CT

Check Number

**303448**

Date:

November 9, 2020

Pay: Five hundred and 00/100\*\*\*\*\* \$ \*\*\*500.00\*\*\*

Void after 180 Days

PAY CITY OF NEWTON  
TO THE 1000 COMMONWEALTH AVE  
ORDER OF: NEWTON, MA 02459

⑈000303448⑈ ⑆011900571⑆ 000000154546⑈



CITY OF NEWTON  
Department of Public Works  
ENGINEERING DIVISION

Memorandum

To: Councilor Alison Leary, Facilities Committee Chair.

From: John Daghlia, Associate City Engineer

Re: Dedham Street Small Cell Antenna

Date: November 25, 2020

CC: Jim McGonagle, Commissioner  
Shawna Sullivan, Chief of Staff  
Lou Taverna, PE City Engineer  
Alan Mandl, Assistant City Solicitor  
Cassidy Flynn, Committee Clerk

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In reference to the above location, the following are my comments for a plan entitled:

***Verizon Wireless***

***Newton, MA SC03***

*Prepared by: Dewberry Engineers Inc.*

*Dated: 4/10/20*

*Received by Engineering: November 16, 2020*

*Executive Summary:*

This applicant is for a small cell antenna to be mounted to pole 117/110 with associated equipment as shown on the plans. The power source will be from the existing utility pole, my only concern is that the detail on sheet C-2 shows a proposed electric meter to be installed on the pole at a height of 5-feet from the base. I would request that this be changed to a minimum of 7-feet from the base of the pole so that it is out of reach of pedestrians and does not interfere with anyone walking near by the pole. If the application is approved the applicant should check with ISD for appropriate electrical permits that maybe required.



Conditions & Special Provisions:

1. I recommend that the installation of the small cell & associated equipment be installed during off peak commuter hours so that the installation does not interfere with traffic.
2. The contractor of record shall contact the Newton Police Department 48 hours in advanced and arrange for Police detail to help residents & commuters navigate around the construction activity.

If you have any questions or concerns, please call me at 617-796-1023.



## CITY OF NEWTON MASSACHUSETTS

### APPLICATION FORM

RECEIVED  
2020 NOV 13 PM 5:02

CITY CLERK  
NEWTON, MA. 02450

This Application Form is to be used for the permitting of (1) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does not have any pre-existing Wireless Communication Facility attachments; (2) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does have pre-existing Wireless Communication Facility attachments, but does not satisfy the requirements under 47 U.S.C. §1455 and related Federal Communications Commission ("FCC") regulations; and (3) new pole construction in a public way primarily for purposes of providing Wireless Communication Services. Refer to City Council Wireless Grant of Location Standards & Procedures.

#### Filing of Application & Fee:

Please provide to the City Clerk in paper format an original and two (2) copies of your application and 10 copies of all attachments and plans. Also provide a complete application and attachments in PDF format or in a digital format compatible with the City's systems. **The application must be complete per the attached check list in order to be filed with the City Clerk.**

**A filing fee of \$500 per location must accompany the application at the time of filing.**

#### Applicant Contact Information:

Name: Michael S. Giaimo as attorney for Cellco Partnership  
d/b/a Verizon Wireless

Phone: (617) 557-5959

Address: Robinson & Cole LLP, One Boston Place, Fl. 25,  
Boston, MA 02108

Email Address: mgiaimo@rc.com

#### Owner(s) of the Utility Pole:

Name: Verizon and Eversource

Phone: \_\_\_\_\_

Address: 118 Flanders Road, Westborough, MA 01581 / One  
NSTAR Way, Westwood, MA 02090

Email Address: \_\_\_\_\_

Owner of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes in whose name a Grant of Location order would be issued:

Name: Cellco Partnership d/b/a Verizon Wireless

Phone: (508) 330-3392

Address: 118 Flanders Road, Westborough, MA 01581

Email Address: sean.conway@verizonwireless.com

If different than the Owner, the User of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes:

Name: N/A Phone: N/A

Address: N/A Email Address: N/A

If in residential area, is the location directly in front of a residence? ☐ Yes ☒ No

If yes, what is the distance between the proposed pole location and residence that it would front?

N/A

If the location is within a Historic District, please identify the historic district and state whether the applicant has filed for a Certificate from the Historic District Commission and if so, the date of that filing:

N/A

Pole #: 22 23

#### Description of Proposed Wireless Communications Facilities

Narrative description of the proposed wireless communications facilities.

The proposed facility will be a "small cell" site designed to provide additional capacity and quality of service to this area of Newton. The proposed installation of equipment consists of one (1) small-cell antenna mounted to the side of the utility pole, two (2) remote radio heads, an antenna bracket, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection, and fiber and coaxial cable located in conduit and mounted to the side of the pole. No equipment will be installed on the ground.

If an applicant proposes adding to the number of Wireless Communications Facilities or expanding the dimensions of the proposed wireless communications facilities (except with regard to replacement of existing wireless communications equipment with comparable equipment), the applicant must apply for a new wireless grant of location for the additional wireless communications equipment.

**Compliance Issues**

Identify any requirement or condition in the Standards with which the Applicant will not or cannot comply with and provide a complete explanation why it cannot or will not comply:

Is the applicant requesting an exception to any standard under Section III.L.? If so, please specify the standard and provide factual support for the requested exception:

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Signature of Applicant: Richard S. Marino

Name and Title and any Business Name: \_\_\_\_\_

Name of Principal or Client of Applicant: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**CITY OF NEWTON, MASSACHUSETTS  
CITY COUNCIL**

**STATEMENT IN SUPPORT OF  
GRANT OF LOCATION PETITION**

**Applicant:** Cellco Partnership d/b/a Verizon Wireless (“Verizon Wireless”)  
118 Flanders Road  
Westborough, MA 01581

**Nearest Street:** 30 Beethoven Avenue, Newton MA 02468

**Proposed Use:** Wireless Communications Facility Mounted to the Side of an Existing Pole

**BACKGROUND**

This statement is submitted on behalf of Cellco Partnership d/b/a Verizon Wireless (“Verizon Wireless” or “Applicant”) in support of its application for a grant of location, pursuant to Newton City Council Grant of Location Procedures and Standards for Wireless Communications Facilities to be Located in Public Ways (“Procedures and Standards”), dated August 12, 2019, Chapter 23 of the Newton City Ordinances, M.G.L. c. 166, §§ 21 and 22, and other applicable state and federal laws, including 47 U.S.C. §§ 253 and 332(c)(7), to permit the installation of a wireless communications antenna and associated equipment on an existing utility pole #22 23 located on Beethoven Avenue, at approximately 30 Beethoven Avenue, as described in the petition made to the Newton City Council, dated November 13, 2020.

**DESCRIPTION OF PROPOSED FACILITY**

The proposed facility will be a personal wireless services facility within the meaning of the Federal Telecommunications Act (“TCA”), 47 U.S.C. § 332(c)(7)(C)(ii), and is a Wireless Communications Facility within the meaning of Section IV(A)(13) of the Procedures and Standards. The proposed facility will comply with all applicable federal and state regulations concerning such facilities.

The proposed facility will be a “small cell” site designed to provide additional capacity and quality of service to this area of Newton. It will improve service on the Verizon Wireless network for Newton residents and others living, working and traveling in the vicinity of the existing utility pole. The ability to reliably access wireless data and voice services is desirable for residents and businesses in Newton and enhances public safety by facilitating incident reporting and emergency response.

The proposed Verizon Wireless facility is depicted on the plans titled “Verizon Wireless Newton MA SC01” prepared by Dewberry Engineers, Inc., last revised on April 10, 2020 as submitted with this application (“Site Plans”).

The proposed installation of equipment consists of one (1) small-cell antenna mounted on a bracket extending from the side of the utility pole, two (2) remote radio heads (“RRHs”), an, a diplexer, a meter, a surge protector, an AC/DC converter, a power connection, and fiber and coaxial cable located in conduit, all affixed to the side of the pole. No equipment will be installed on the ground.

### GRANT OF LOCATION REQUIREMENTS

Verizon Wireless requests permission, pursuant to Section II of the Procedures and Standards and M.G.L. c. 166, § 22, to install the proposed facility as a wireless communications facility mounted to the side of an existing utility pole. According to § 23-6 of the Newton Ordinances, “every petition presented to the city council for permission to erect...abutments or other fixtures upon any public ways shall be accompanied by a plan showing the exact location of abutment or other fixture...the trees and other objects or structures in the immediate vicinity...and of the lines or wires such... abutments or other fixtures are designed to support.” Under Section IV of the Procedures and Standards, “all Wireless Communications Facilities shall be designed and maintained to minimize visual, noise and other impacts on the surrounding community, and to avoid any obstruction of the use of public ways, including sidewalks.” As demonstrated by the Site Plans, the proposed facility will comply with design standards as outlined in the Procedures and Standards. The proposed facility satisfies the applicable standards for such necessary approval, as follows:

<b>Personal Wireless Services Facilities — General Conditions</b>	
<b>Section III(A):</b> An Applicant must demonstrate that it is qualified and eligible under G.L.c. 166, § 21 to place its facilities on poles located in the public ways.	Applicant has submitted a copy of Verizon Wireless’ Business Certificate which is filed with the City of Newton and current FCC licenses to offer wireless communication services. ( <i>See Exs. A &amp; B</i> ).
<b>Section III(A):</b> The Applicant should demonstrate that its proposed facilities will be used to carry out the telecommunications services covered by its Statement of Business Operations and/or an applicable FCC license.	The proposed facility will be used to provide services pursuant to Verizon Wireless’ FCC licenses. ( <i>See Ex. B</i> ).
<b>Section III(A):</b> The Applicant should provide evidence of its authority to conduct in Massachusetts the business carried out through the proposed facilities.	Applicant has submitted a copy of Verizon Wireless’ Business Certificate which demonstrates its authority to conduct in Massachusetts the business utilizing the equipment. ( <i>See Ex. A</i> ).
<b>Section III(E):</b> The Applicant shall submit	The pole is jointly owned by Verizon. The

evidence of pole owner permission to attach its facilities to the specific pole or poles included in its application.	Applicant has also submitted an Engineer's Affidavit certifying that the pole owner has granted a license for the proposed location. ( <i>See Ex. C</i> ).
<b>Section III(F):</b> The Applicant shall complete the tax attestation.	The City has not provided a tax attestation form and accordingly has advised the Applicant to request a waiver of this requirement.
<b>Section IV(B)(2):</b> Applicants are encouraged to avoid pole locations that would be (a) directly in front of, and in close proximity to, a residence, (b) on a scenic road, (c) in front of and on the same side of the street as an historic building listed in the Massachusetts Historic Register, (d) in an historic district; (e) at an entry point to a village center; or (f) within an existing underground utility district. Applicants are also encouraged to use existing Utility Poles which do not support existing Wireless Communications Facilities.	Applicant will comply with this requirement. The proposed antenna and radio equipment will be installed on an existing pole which will be on the opposite side of Beethoven Avenue and approximately 60 feet from the nearest residence as depicted on the Locus Aerial Map in the Site Plans. ( <i>See Ex. D, Sheet Number C-1</i> ).
<b>Section IV(C):</b> The Applicant shall provide a statement certifying that the proposed facility will comply with Federal Communications Commission ("FCC") regulations concerning the environmental effects of radio frequency emissions ("RFE").	The Engineer's Affidavit attached as Exhibit C certifies that proposed attachments will be in compliance with FCC RFE regulations. Verizon Wireless has also submitted an EME letter which was transmitted to the City of Newton and confirms that the equipment will comply with FCC RFE safety requirements. ( <i>See Exs. C &amp; F</i> ).
<b>Section IV(G)(1):</b> Only one (1) personal wireless service provider or DAS provider shall be allowed to own, attach and/or operate Wireless Communications Facilities which are attached to a single Utility Pole.	There is no other personal wireless service provider with facilities on this utility pole.
<b>Section IV(G)(2):</b> No Wireless Communications Facilities shall be mounted to City-owned infrastructure located in the public ways, including but not limited to streetlights and traffic signals, unless authorized in writing by the Commissioner of Public Works and Mayor or her authorized designee.	Not applicable.

<b>Personal Wireless Services Facilities — Design Guidelines</b>	
<b><u>Section IV(G)(7)(a):</u></b> The personal wireless service antenna, including antenna panels, whip antennas or dish-shaped antennas, shall be as small as practicable, taking into account aesthetic and public safety considerations.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(b):</u></b> The total combined volume of all above ground equipment and appurtenances serving a personal wireless service antenna shall be as small as practicable, taking into account aesthetic and public safety considerations.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(c):</u></b> The operator of Wireless Communications Facilities shall, whenever possible, locate the base of the equipment or appurtenances at a height of no lower than eight (8) feet above grade. No facilities may be installed at grade without the approval of the Commissioner of Public Works and the City Council. If the City prohibits electric meters on utility poles or the electric distribution company does not require an electric meter, the operator shall locate the base of the equipment or appurtenances no lower than 12 feet above grade.	The Applicant has requested a waiver of this requirement. The meter height will be determined by the electric company. Because of the configuration of existing utility lines attached to the pole, some equipment will be located below 12 feet above ground as shown on the plans. ( <i>See</i> Ex. D, Sheet Number C-2). The Applicant is not proposing to install any equipment at grade.
<b><u>Section IV(G)(7)(d):</u></b> The top of the highest point of the Utility Pole shall not exceed forty (40) feet and the combination of the height of the utility pole and personal wireless service antenna extension shall not exceed forty-four (44) feet above ground level.	The proposed facility will comply with this requirement. The top of the highest point of the utility pole is 38.6 feet above ground level. The proposed antenna is below the top of the highest point of the utility pole at 27.8 feet above ground level. ( <i>See</i> Ex. D, Sheet Number C-2).
<b><u>Section IV(G)(7)(e):</u></b> To the maximum extent practicable, the color of the Wireless Communications Facilities shall be similar to and blend with (a) the existing equipment on the Utility Pole and/or on other nearby Utility Poles, (b) the color of the Utility Pole, or (c) another color reasonably satisfactory to and directed by the	The proposed facility will comply with this requirement. ( <i>See</i> Ex. D, Sheet Number C-4).



City Council. The Wireless Communications Facilities shall have non-reflective materials.	
<b><u>Section IV(G)(7)(f):</u></b> Any wiring on the pole must be covered with an appropriate cover or cable shield.	The proposed facility will comply with this requirement. ( <i>See</i> Ex. D, Sheet Number C-2).
<b><u>Section IV(G)(7)(g):</u></b> Antenna elements and equipment shall be mounted as close to the surface of the pole as practical and feasible.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(h):</u></b> Personal wireless service antenna shall include a radome, cap or other antenna panel covering or shield and shall use a color that blends with the color of the utility pole on which it is mounted.	The proposed antenna is as depicted on the plans filed with this application. ( <i>See</i> Ex. D, Sheet Number C-4).
<b><u>Section IV(G)(7)(i):</u></b> Other than signs required by federal or state law or by the pole owner, Wireless Communications Facilities shall not have signs installed thereon. Identification tags may be utilized in accordance with governmental and/or pole owner requirements.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(j):</u></b> Wires and cables connecting the antenna and/or appurtenances shall be installed in accordance with the National Electrical Safety Code in force at the time of installation of the wires and cables or any stricter standards required by a pole owner, and TIA/EIA applicable codes.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(k):</u></b> The Wireless Communications Facilities shall be grounded in accordance with the National Electrical Safety Code in force at the time of installation of the wires and cables or any stricter standard required by a pole owner.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(l):</u></b> No guy wires or other support wires shall be used in connection with Wireless Communications Facilities unless the facilities are proposed to be attached to an existing Utility Pole that incorporates guy wires prior to the date that the Applicant has applied for a grant of location, or unless the use of guy	The proposed facility will comply with this requirement.

wires or support wires allows for an installation that furthers the objectives of these procedures and standards better than other practical alternatives that do not include the use of such wires.	
<b><u>Section IV(G)(7)(m):</u></b> The proposed Wireless Communications Facilities shall be properly engineered to withstand wind loads required by applicable safety codes and pole owner requirements.	The proposed facility will comply with this requirement. Verizon Wireless has submitted a Structural Analysis letter to demonstrate the proposed installation's ability to withstand wind loads based on applicable state and local building codes. (See Ex. E).
<b><u>Section IV(G)(7)(n):</u></b> The Wireless Communications Facilities shall be located so as not to cause any physical or visual obstruction to pedestrian or vehicular traffic, cause safety hazards to pedestrians and motorists or otherwise incommode the public's use of the public way. The Wireless Communications Facilities shall not interfere with snow plowing, side walk clearing, leaf removal or the maintenance of public shade trees.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(o):</u></b> All Wireless Communications Facilities shall be designed and located in such a manner as to avoid adverse impacts on traffic and pedestrian safety. Wireless Communications Facilities shall not project over the public way or sidewalk (beyond the berm or curb) in such a manner and at a height that will interfere with the public use of the public way or sidewalk. The Applicant shall comply with the Uniform Traffic Manual for Traffic Control at all times during construction or installation.	The proposed facility will comply with this requirement. As requested on the site walk with the Department of Public Works, the RRH units will not protrude over the roadway. (See Ex. D, Sheet Number C-2).
<b><u>Section IV(G)(7)(p):</u></b> The Applicant's Wireless Communications Facilities shall not produce any lighting or blinking light that is not required by federal or state law or by an applicable industry safety code.	The proposed facility will comply with this requirement.

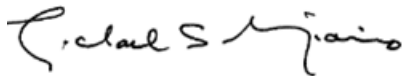
<b><u>Section IV(G)(7)(q):</u></b> The Applicant shall provide adequate security for its Wireless Communications Facilities in accordance with current industry practices and any applicable standards.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(r):</u></b> The Applicant shall employ Wireless Communications Facilities that are either silent or generate as little noise as is technically feasible and commercially practicable in light of industry standards and equipment specifications. In all cases, the Applicant shall comply with any applicable City noise ordinance. In the event that its facilities fail to comply with such ordinance, the Applicant shall provide noise suppression equipment as reasonably necessary to bring the facilities into compliance with such ordinance. In addition, the Applicant shall demonstrate that it is capable of promptly shutting down and repairing any equipment that is not in compliance with City noise regulations.	The proposed facility will comply with this requirement. ( <i>See Ex. C</i> ).
<b><u>Section IV(G)(7)(s):</u></b> The Applicant shall demonstrate that it is capable of promptly shutting down and repairing any equipment that vibrates excessively.	The proposed facility will comply with this requirement.
<b><u>Section IV(G)(7)(t):</u></b> The Applicant and its facilities shall not interfere with the operation and maintenance of any wires, cables or equipment already attached to a utility pole. Signage already attached to a pole shall not be moved without the prior written consent of the City department that controls the placement of the signage.	The proposed facility will comply with this requirement.
<b>Other Grant of Location Requirements</b>	
<b><u>Section IV(G)(8)(f):</u></b> Under § 23-11 of the City Ordinance, a performance bond[...]is required for every person constructing, maintaining or operating a telegraph, telephone or other electrical line in the city in a penal sum of not less than ten thousand dollars (\$10,000.00).	The applicant has not provided a performance bond with this application and requests that this requirement be a condition of approval

<p><b>Section IV(G)(8)(g)(iii):</b> The City discourages the installation of Wireless Communication Facilities within the dripline of a Public Shade Tree or other City owned tree. If there is no alternative to the installation of a Wireless Communication Facility within the dripline of a Public Shade Tree or other City owned tree the installing party must comply with the City's Public Tree Regulation and obtain a Tree Permit from the Tree Warden.</p>	<p>The proposed facility will comply with this requirement.</p>
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### CONCLUSION

For all of the foregoing reasons, and with full reservation of its rights under applicable federal, state and local law, Verizon Wireless submits that the proposed wireless communications facility satisfies the requirements of the Procedures and Standards, Chapter 23 of the Newton City Ordinance, M.G.L. c. 166, §§ 21 and 22, and applicable state and federal law, including 47 U.S.C. §§ 253 and 332(c)(7) and respectfully requests that the Newton City Council grants permission to Verizon Wireless pursuant to Section III (M) of the Procedures and Standards, as well as any other relief that may be necessary or appropriate, to allow the installation and operation of a Verizon Wireless “small cell” wireless communications facility as described in this application and the accompanying materials and as will be further addressed at the hearing on this matter.

Respectfully submitted,  
Cellco Partnership d/b/a Verizon Wireless  
By its attorneys,




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Michael S. Giaimo, Esq.  
Alicia R. Selman, Esq.  
Robinson & Cole LLP  
One Boston Place, 25th Floor  
Boston, MA 02108  
(617) 557-5959

Dated: November 13, 2020.

**CITY OF NEWTON, MASSACHUSETTS  
CITY COUNCIL**

**STATEMENT IN SUPPORT OF  
GRANT OF LOCATION PETITION**

**EXHIBIT LIST**

**Exhibit A** – Verizon Wireless’ Business Certificate filed with the City of Newton City Clerk’s Office dated August 12, 2019;

**Exhibit B** – Copy of Verizon Wireless’ Federal Communications Commission Licenses;

**Exhibit C** – Eversource Energy’s Initial Authorization Letter dated November 19, 2020;

**Exhibit D** - Engineer’s Affidavit on Behalf of Verizon Wireless dated February 3, 2020;

**Exhibit E** – Site Plans prepared by Dewberry Engineers Inc. dated April 10, 2020;

**Exhibit F** – Structural Analysis of the Proposed Equipment Installation dated February 28, 2020;  
and

**Exhibit G** – City of Newton EME Letter dated February 6, 2020.

# EXHIBIT A



**City of Newton-City Clerk's Office**  
 1000 Commonwealth Ave. Newton, MA 02459




**Business Certificate**  
**\$35.00 Filing Fee**  
**Requires Renewal Every 4 Years**

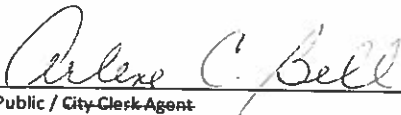
In conformity with the provisions of Massachusetts General Law Chapter 110, Section 5, the undersigned hereby declares that a business is being conducted under the name of: (Please Print)

Business Name	Verizon Wireless			
Proposed Use	wireless telecommunications			
Location of Business	13 Boylston Street	Chestnut Hill	MA	02467
	Address	City	State	Zip code

Full name and address of each person conducting such business:

Name	Celco Partnership			
	 Karen M. Shipman, Assistant Secretary Signature (In presence of Notary or City Clerk Agent)			
Address	One Verizon Way	Basking Ridge	NJ	07920
		City	State	Zip code
Name	Signature (In presence of Notary or City Clerk Agent)			
Address		City	State	Zip code
Name	Signature (In presence of Notary or City Clerk Agent)			
Address		City	State	Zip code

On August 12, 2019 the above-named individual personally appeared before me and made oath that the foregoing statement is true.

  
 Notary Public / City Clerk Agent

August 3, 2023

My Commission Expires/Seal:



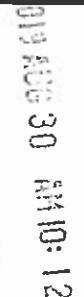
Under the provisions of Chapter 337 of the Acts of 1985 and Chapter 110, Section 5 of the Mass. General Laws, business certificates shall be in effect for four years from the date of issue and shall be renewed each four years thereafter. A statement under oath must be filed with the City Clerk upon discontinuance or withdrawing from such business or partnership. Copies of such certificates shall be available at the address such business is conducted and shall be furnished upon request during regular business hours to any person who has purchased goods or services from such business. Violations are subject to a fine of not more than three hundred dollars, (\$300.00) for each month during which such violation occurs.

This certificate expires four [4] years from Date/Time stamp on back: AUGUST 30, 2023

*\*The issuance of this Business Certificate does not imply that all relevant licenses required to legally operate this business have been obtained or are current. This certificate only records that a business is being conducted.*

See Reverse



Home Office Affidavit (Circle)	No	Yes
If the proposed business is located within a residence, you must file a "Home Business Affidavit" with the Inspectional Services Department thereby acknowledging compliance with Newton's Home Business Ordinance.		
Inspectional Services Department Official:		
I hereby certify that this business address is in the following zoning district, and is an allowed use in accordance with the revised zoning ordinances of the City of Newton.		
	BU 4 Zoning District	 Attest
Received in the City Clerk's Office		
	58 Book	295 Page
Entered in the records of business titles in the City Clerk's Office-City of Newton, Massachusetts		
 _____ David A. Olson Newton City Clerk		Date/Time Stamp: 

New	Renewal ✓
-----	--------------



# EXHIBIT B

ULS License

**Cellular License - KNKA201 - Cellco Partnership**

Call Sign	KNKA201	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

**Market**

Market	CMA006 - Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH	Channel Block	B
Submarket	0	Phase	2

**Dates**

Grant	08/26/2014	Expiration	10/01/2024
Effective	11/01/2016	Cancellation	

**Five Year Buildout Date**

08/27/1989

**Control Points**

**3** 500 W. Dove Rd., TARRANT, Southlake, TX  
P: (800)264-6620

**Licensee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender



ULS License

**PCS Broadband License - KNLH242 - Cellco Partnership**

Call Sign	KNLH242	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	BTA051 - Boston, MA	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

**Dates**

Grant	06/02/2017	Expiration	06/27/2027
Effective	06/02/2017	Cancellation	

**Buildout Deadlines**

1st	06/27/2002	2nd	
-----	------------	-----	--

**Notification Dates**

1st	05/17/2002	2nd	
-----	------------	-----	--

**Licensee**

FRN	0003290673	Type	Joint Venture
-----	------------	------	---------------

**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Verizon Wireless Licensing - Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government? No

Is the applicant an alien or the representative of an alien? No

Is the applicant a corporation organized under the laws of any foreign government? No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? No

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? Yes

The Alien Ruling question is not answered.

### Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

### Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

### Demographics

Race

Ethnicity

Gender



## Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

ULS Lease

[? HELP](#)

### KNLF646 - L000026571 - Cellco Partnership

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#)
[License Details](#) : [Leases](#) : [Lease Details](#)

MAIN	ADMIN	MARKET	MAP	TECHNICAL DATA
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Lease ID	L000026571	Radio Service	CW - PCS Broadband
Status	Active	Classification of Lease	Spectrum Manager Lease
		Term of Lease	Long

#### Dates

Grant/Accepted	03/08/2018	Expiration	01/03/2027
Commencement	02/16/2018	Cancellation	

#### Lessee

FRN	0003290673 ( <a href="#">View Ownership Filing</a> )	Type	General Partnership
-----	---	------	---------------------

#### Lessee

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Real Party in Interest	Cellco Partnership FRN of Real Party in Interest 0003290673

#### Contact

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

#### Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

#### Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

#### Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

**Demographics**

Race

Ethnicity

Gender

**ULS Help**[ULS Glossary](#) - [FAQ](#) - [Online Help](#) - [Technical Support](#) - [Licensing Support](#)**ULS Online Systems** [CORES](#) - [ULS Online Filing](#) - [License Search](#) - [Application Search](#) - [Archive License Search](#)**About ULS** [Privacy Statement](#) - [About ULS](#) - [ULS Home](#)**Basic Search**

By Call Sign ▼ =

**SEARCH**[FCC](#) | [Wireless](#) | [ULS](#) | [CORES](#)[Help](#) | [Tech Support](#)

Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

Phone: 1-877-480-3201  
TTY: 1-717-338-2824  
[Submit Help Request](#)

ULS Lease

**WRBE696 - L000035329 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035329	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender



ULS Lease

**WRBE697 - L000035330 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035330	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
 5055 North Point Parkway, NP2NE Network Engineering  
 Alpharetta, GA 30022  
 ATTN Regulatory

P:(770)797-1070  
 E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
 Sarah Trosch  
 1300 I Street, NW - Suite 500 East  
 Washington, DC 20005

P:(202)515-2453  
 E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBE848 - L000035481 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035481	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBE849 - L000035482 - Cellco Partnership**[License Details](#) : [Leases](#) : **Lease Details**

Lease ID	L000035482	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF488 - L000035921 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035921	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
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**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF489 - L000035922 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000035922	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network  
Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF778 - L000036207 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036207	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership 5055 North Point Parkway, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Real Party in Interest	Cellco Partnership FRN of Real Party in Interest 0003290673

**Contact**

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

**Lessee Qualifications and Ownership Information**

Radio Service Type	
Regulatory Status	Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race	
Ethnicity	Gender

ULS Lease

**WRBF779 - L000036208 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036208	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBF954 - L000036377 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036377	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership 5055 North Point Parkway, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
--	--

Real Party in Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
------------------------	--------------------	-------------------------------	------------

**Contact**

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

**Lessee Qualifications and Ownership Information**

Radio Service Type	
Regulatory Status	Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race	
Ethnicity	Gender



ULS Lease

**WRBF955 - L000036378 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036378	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest      Cellco Partnership

FRN of Real Party in Interest      0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status      Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBG414 - L000036637 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036637	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
 5055 North Point Parkway, NP2NE Network Engineering  
 Alpharetta, GA 30022  
 ATTN Regulatory

P:(770)797-1070  
 E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
 Sarah Trosch  
 1300 I Street, NW - Suite 500 East  
 Washington, DC 20005

P:(202)515-2453  
 E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS Lease

**WRBG415 - L000036638 - Cellco Partnership**License Details : Leases : **Lease Details**

Lease ID	L000036638	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Classification of Lease	De Facto Transfer Lease
		Term of Lease	Long

**Dates**

Grant/Accepted	04/01/2019	Expiration	10/18/2020
Commencement	04/02/2019	Cancellation	

**Lessee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Lessee**

Cellco Partnership  
5055 North Point Parkway, NP2NE Network Engineering  
Alpharetta, GA 30022  
ATTN Regulatory

P:(770)797-1070  
E:licensingcompliance@verizonwireless.com

Real Party in Interest Cellco Partnership

FRN of Real Party in Interest 0003290673

**Contact**

Verizon  
Sarah Trosch  
1300 I Street, NW - Suite 500 East  
Washington, DC 20005

P:(202)515-2453  
E:sarah.trosch@verizon.com

**Lessee Qualifications and Ownership Information**

Radio Service Type

Regulatory Status Interconnected

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

## ULS License

**Common Carrier Fixed Point to Point Microwave License - WLW562 - Cellco Partnership**

Call Sign	WLW562	Radio Service	CF - Common Carrier Fixed Point to Point Microwave
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Status	Active	Auth Type	Regular
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**Dates**

Grant	01/11/2011	Expiration	02/01/2021
-------	------------	------------	------------

Effective	11/15/2016	Cancellation	
-----------	------------	--------------	--

**Control Points**

None

**Licensee**

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(678)259-1319 E:LicensingCompliance@verizonwireless.com
---	---

**Contact**

Verizon Wireless Licensing Manager - MANAGER 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(678)259-1319 E:LicensingCompliance@verizonwireless.com
--	---

**Microwave Data**

Oper Type	Permanent Fixed Point to Point	Station Class	FXO - Operational Fixed
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**Ownership and Qualifications**

Radio Service Type	Fixed
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Regulatory Status	Common Carrier	Interconnected	Yes
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**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government?	No
--	----

Is the applicant an alien or the representative of an alien?	No
--	----

Is the applicant a corporation organized under the laws of any foreign government?	No
--	----

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
---	----

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	Yes
---	-----

The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized. ✓

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Local Multipoint Distribution Service License - WPLM413 - Cellco Partnership

Call Sign	WPLM413	Radio Service	LD - Local Multipoint Distribution Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	B
Submarket	0	Associated Frequencies (MHz)	031000.00000000-031075.00000000-031225.00000000-031300.00000000

### Dates

Grant	07/25/2018	Expiration	06/17/2028
Effective	02/27/2019	Cancellation	

### Buildout Deadlines

1st	06/01/2012	2nd	
-----	------------	-----	--

### Notification Dates

1st	03/19/2012	2nd	
-----	------------	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

### Ownership and Qualifications

Radio Service Type	Fixed		
Regulatory Status	Common Carrier, Non-Common	Interconnected	Yes

## Carrier

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Local Multipoint Distribution Service License - WPOH955 - Celco Partnership

Call Sign	WPOH955	Radio Service	LD - Local Multipoint Distribution Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	A
Submarket	1	Associated Frequencies (MHz)	029100.00000000- 029250.00000000- 031075.00000000- 031225.00000000

### Dates

Grant	09/11/2018	Expiration	10/06/2028
Effective	09/14/2018	Cancellation	

### Buildout Deadlines

1st	10/06/2008	2nd	
-----	------------	-----	--

### Notification Dates

1st	02/07/2008	2nd	
-----	------------	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
---	---

### Ownership and Qualifications

Radio Service Type	Fixed		
Regulatory Status	Common Carrier, Non-Common	Interconnected	No



Carrier

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGA900 - Cellco Partnership**

Call Sign	WQGA900	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	BEA003 - Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH-RI-VT	Channel Block	B
Submarket	1	Associated Frequencies (MHz)	001720.00000000-001730.00000000-002120.00000000-002130.00000000

**Dates**

Grant	11/29/2006	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	

**Buildout Deadlines**

1st	2nd
-----	-----

**Notification Dates**

1st	2nd
-----	-----

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type    Mobile

Regulatory Status    Common Carrier    Interconnected    Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGB266 - Cellco Partnership**

Call Sign	WQGB266	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	CMA006 - Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH	Channel Block	A
Submarket	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000-002110.00000000-002120.00000000

**Dates**

Grant	11/29/2006	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	

**Buildout Deadlines**

1st	2nd
-----	-----

**Notification Dates**

1st	2nd
-----	-----

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
---	---

**Contact**

Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
--	---

**Ownership and Qualifications**

Radio Service Type	Mobile
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Regulatory Status	Common Carrier	Interconnected	Yes
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**Alien Ownership**

Is the applicant a foreign government or the representative of any foreign government?	No
--	----

Is the applicant an alien or the representative of an alien?	No
--	----

Is the applicant a corporation organized under the laws of any foreign government?	No
--	----

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
---	----

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	Yes
---	-----

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?	Yes
---	-----

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**700 MHz Upper Band (Block C) License - WQJQ689 - Cellco Partnership****PA** This license has pending applications: 0008938399

Call Sign	WQJQ689	Radio Service	WU - 700 MHz Upper Band (Block C)
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	REA001 - Northeast	Channel Block	C
Submarket	0	Associated Frequencies (MHz)	000746.00000000- 000757.00000000 000776.00000000- 000787.00000000

**Dates**

Grant	09/11/2019	Expiration	06/13/2029
Effective	09/11/2019	Cancellation	

**Buildout Deadlines**

1st	06/13/2013	2nd	06/13/2019
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**Notification Dates**

1st	06/20/2013	2nd	06/17/2019
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**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@VerizonWireless.com
---	--

**Contact**

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@VerizonWireless.com
--	--

**Ownership and Qualifications**

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

**Upper Microwave Flexible Use Service License - WRBA936 - Cellco Partnership**

Call Sign	WRBA936	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Auth Type	Regular

**Rural Service Provider Bidding Credit**

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

**Reserved Spectrum**

Reserved Spectrum

**Market**

Market	BTA051 - Boston, MA	Channel Block	L1
Submarket	1	Associated Frequencies (MHz)	027500.00000000-027925.00000000

**Dates**

Grant	09/11/2018	Expiration	10/06/2028
Effective	02/27/2019	Cancellation	

**Buildout Deadlines**

1st	06/01/2024	2nd	
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**Notification Dates**

1st		2nd	
-----	--	-----	--

**Licensee**

FRN	0003290673	Type	General Partnership
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**Licensee**

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

**Contact**

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

**Ownership and Qualifications**

Radio Service Type	Fixed, Mobile		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected	No



**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

ULS License

## Upper Microwave Flexible Use Service License - WRBA937 - Cellco Partnership

Call Sign	WRBA937	Radio Service	UU - Upper Microwave Flexible Use Service
Status	Active	Auth Type	Regular

### Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

### Reserved Spectrum

Reserved Spectrum

### Market

Market	BTA051 - Boston, MA	Channel Block	L2
Submarket	1	Associated Frequencies (MHz)	027925.00000000-028350.00000000

### Dates

Grant	09/11/2018	Expiration	10/06/2028
Effective	02/27/2019	Cancellation	

### Buildout Deadlines

1st	06/01/2024	2nd	
-----	------------	-----	--

### Notification Dates

1st		2nd	
-----	--	-----	--

### Licensee

FRN	0003290673	Type	General Partnership
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### Licensee

Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
---	--

### Contact

Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
---	--

### Ownership and Qualifications

Radio Service Type	Fixed, Mobile		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected	No

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits**

This license did not have tribal land bidding credits.

**Demographics**

Race

Ethnicity

Gender

# EXHIBIT C



One NSTAR Way, SE280  
Westwood, Massachusetts 02090

November 19, 2020

Attention: City of Newton

Re: Initial Authorization for Verizon Wireless to Attach to Eversource Energy Poles

To Whom It May Concern:

NSTAR Electric Company d/b/a Eversource Energy (“Eversource”) is aware that Verizon Wireless is in the process of permitting for the installation of necessary telecommunications equipment and corresponding aerial fiber optic cable in various locations on Eversource-owned poles throughout the City of Newton. As part of the approval process, we understand that there is a requirement for Eversource to review these locations and provide the City of Newton with confirmation of its approval in advance of Verizon Wireless’s proposed attachments.

Newton_S_MA_SC03-A	983 Dedham St	Pole 117/110
Netwon_SC01-MA	30 Beethoven Ave	Pole 22/23

Accordingly, Eversource hereby submits its initial authorization for Verizon Wireless to install its equipment and corresponding aerial fiber routes to Eversource poles in the geographic locations as depicted on the plans submitted by Verizon Wireless and on file with the City of Newton. The installations on Eversource poles will be subject to the underlying terms and conditions of agreements by and between Eversource and Verizon Wireless, as the same may be in effect from time to time.

If there is anything further that I can provide you with for your analysis, please do not hesitate to contact me at 781-441-8162.

Sincerely,

***Richard A Comeau***

Richard Comeau  
Lead Engineer – Distribution Technical Engineering – Pole Administration  
NSTAR Electric Company d/b/a Eversource Energy  
One NSTAR Way, SE280  
Westwood, MA 02090  
Ph: (781) 441-8162

# EXHIBIT D



118 Flanders Road, 3<sup>rd</sup> Floor  
Westborough, MA 01581

AFFIDAVIT ON BEHALF OF VERIZON WIRELESS

The undersigned, in support of applications to install a wireless telecommunications facility consisting of antennas and associated radio equipment on existing wooden utility poles located in the City of Newton, Massachusetts states the following:

1. My name is Sean Conway. I am a Principal Engineer – RE/Regulatory for Verizon Wireless in Massachusetts.
2. Verizon Wireless is a federally licensed provider of wireless communications services with a national footprint.
3. As part of its network development to improve its service to users of its wireless network, Verizon Wireless is proposing to construct small cell wireless facilities on certain utility poles in the City of Newton. It has received the necessary permission from the owners of those utility poles to place antennas and radio equipment and other related cabling and equipment on the poles that are the subject of the applications.
3. Verizon Wireless certifies that its proposed facilities will be in compliance with applicable Federal Communications Commission standards and requirements including the standards for radio frequency emissions.
4. Verizon Wireless confirms that the attachments to be placed on the poles will not be reflective.
5. Verizon Wireless confirms that the proposed facilities will generate as little noise as is technically feasible and commercially practicable and will comply with the City of Newton noise ordinance.

Signed under the pains and penalties of perjury this 3rd day of February, 2020

A handwritten signature in blue ink, appearing to be "Sean Conway", written over a horizontal line.

Sean Conway  
Principal Engineer – RE/Regulatory

# EXHIBIT E



NEWTON MA SC01  
LOCATION CODE:

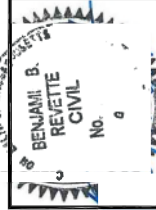
FUZE ID:  
2579688

## CONSTRUCTION DRAWINGS

O	04/10/20		FOR SUBMITTAL	
A	03/20/20		FOR COMMENT	



**Dewberry Engineers Inc.**  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	

22/23

COORDINATES:

N 42.329406°  
W 71.218464°

APPROXIMATE ADDRESS\*\*

30 BEETHOVEN AVE.  
NEWTON MA 02468

SHEET TITLE

**509-20**

TITLE SHEET

SHEET NUMBER

11

NEWTON MA SC01  
30 BEETHOVEN AVE.  
NEWTON, MA 02468



VICINITY MAP

NTS

**PETITIONER:**  
VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581

**ENGINEER**

DENBERY ENGINEERS INC.  
89 STATE STREET  
SUITE 700  
BOSTON, MA 02110

PHONE # (617) 531-0800  
FAX # (617) 695-3310

CONTACT: BENJAMIN B. BEVETTE, P.E.

**ELECTRIC UTILITY:**  
EVERSOURCE  
(866) 554-6025

TEAM

SITE NAME:  
NEWTON WA SDOT  
LOCATION CODE:  
498879  
FLUZE ID:  
279606  
ZONING CLASSIFICATION:  
RUB (PUBLIC USE)  
APPROXIMATE ADDRESS\*\*:  
10000 10TH AVE  
NEWTON, WA 02469  
POLE INFORMATION:  
EXISTING POLE TYPE: 38.6 FT TALL A.C.L.  
POLE ID:  
22  
23  
TRUSTING POLE COORDINATES:  
NAD83  
Easting: 1000000.00  
Latitude: N 42° 13' 45.86" (42.2294667) (NAD83)  
Longitude: W 71° 13' 06.47" (71.218667) (NAD83)

## PROJECT SUMMARY

### INSTALLATION OF AN ANTENNA & ASSOCIATED EQUIPMENT ON A UTILITY POLE

PROJECT SCOPE

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

\*\*APPROXIMATE ADDRESS REFLECTS THE CLOSEST STREET ADDRESS TO THE LOCUS POLE AND IS BASED ON NEWTON VIEWER GIS MAP. APPROXIMATE ADDRESS DOES NOT REFLECT E911 ADDRESS FOR THIS POLE.

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
C-1	LOCUS AERIAL MAP
C-2	POLE PHOTO & ELEVATION
C-3	EQUIPMENT & ANTENNA PLANS
C-4	EQUIPMENT DETAILS
C-5	WIRING DIAGRAM & DETAILS
	SHEET INDEX

SHEET INDEX

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE GOVERNING AUTHORITIES:  
MASSACHUSETTS STATE BUILDING CODE – 780 CMR, 9TH EDITION (AMENDMENTS TO IBC 2015)  
NATIONAL ELECTRIC SAFETY CODE (NEC) GRADE “C” CONSTRUCTION STANDARDS  
2017 NATIONAL ELECTRIC SAFETY CODE (NEC)

2. ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY SPECIFICATIONS AND CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) IN COMMUNICATION SPACE TITLED DESIGN & APPLICATION STANDARD BY EVERSOURCE

GROUNDING SHALL COMPLY WITH THE LOCAL UTILITY COMPANY CODES & REQUIREMENTS & NEC ART. 250.

ALL GROUND CONNECTIONS TO BE BURIED HYDRANT COMPRESSION TIE CONNECTORS OR CRAWLED EXOTHERMIC WELD TO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL. ROUTE CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS; #6 WIRE CAN BE BENT AT 90° BENDS WHEN NECESSARY.

ALL GROUNDING SYSTEMS SHALL BE SECONDARY TO THE MAIN VALUES FOR PRODUCT CLOSE-OUT DOCUMENTATION. ALL GROUNDING SYSTEMS SHALL BE SECONDARY TO THE MAIN VALUES FOR PRODUCT CLOSE-OUT DOCUMENTATION.

1. NORTH IS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. POINTS AND LINE SEGMENTS OF THE PROPOSED HIGHWAY SCHEME COURSE TO BE DETERMINED BY THE ENGINEER BASED ON THE FIELD SURVEY AND THE PROPOSED UTILITY COMPANY RESPONSIBILITIES.
4. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DERBERRY ENGINEERS INC.
5. UTILITY POLE IM4083 COORDINATES BASED ON GOOGLE EARTH.
6. AERIAL & VOLUME MAPS BASED ON GOOGLE EARTH.

- APPROXIMATE ADDRESS REFLECTS THE CLOSEST STREET ADDRESS TO THE LOGUS POLE AND IS BASED ON NEWTON CITY VIEWER GIS MAP. NEAREST ADDRESS DOES NOT REFLECT THE E911 ADDRESS FOR THIS POLE.

9. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"

1. STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
    - ASTM A 36 - CARBON STEEL
    - ASTM A 572 - GRADE 50
    - ASTM A 572 - GRADE 60
    - ASTM A 572 - GRADE 65
    - ASTM A 572 - GRADE 70
    - ASTM A 572 - GRADE 80
    - ASTM A 572 - GRADE 85
    - ASTM A 572 - GRADE 90
    - ASTM A 572 - GRADE 100
    - ASTM A 572 - GRADE 105
    - ASTM A 572 - GRADE 110
    - ASTM A 572 - GRADE 115
    - ASTM A 572 - GRADE 120
    - ASTM A 572 - GRADE 125
    - ASTM A 572 - GRADE 130
    - ASTM A 572 - GRADE 135
    - ASTM A 572 - GRADE 140
    - ASTM A 572 - GRADE 145
    - ASTM A 572 - GRADE 150
    - ASTM A 572 - GRADE 155
    - ASTM A 572 - GRADE 160
    - ASTM A 572 - GRADE 165
    - ASTM A 572 - GRADE 170
    - ASTM A 572 - GRADE 175
    - ASTM A 572 - GRADE 180
    - ASTM A 572 - GRADE 185
    - ASTM A 572 - GRADE 190
    - ASTM A 572 - GRADE 195
    - ASTM A 572 - GRADE 200
    - ASTM A 572 - GRADE 205
    - ASTM A 572 - GRADE 210
    - ASTM A 572 - GRADE 215
    - ASTM A 572 - GRADE 220
    - ASTM A 572 - GRADE 225
    - ASTM A 572 - GRADE 230
    - ASTM A 572 - GRADE 235
    - ASTM A 572 - GRADE 240
    - ASTM A 572 - GRADE 245
    - ASTM A 572 - GRADE 250
    - ASTM A 572 - GRADE 255
    - ASTM A 572 - GRADE 260
    - ASTM A 572 - GRADE 265
    - ASTM A 572 - GRADE 270
    - ASTM A 572 - GRADE 275
    - ASTM A 572 - GRADE 280
    - ASTM A 572 - GRADE 285
    - ASTM A 572 - GRADE 290
    - ASTM A 572 - GRADE 295
    - ASTM A 572 - GRADE 300
    - ASTM A 572 - GRADE 305
    - ASTM A 572 - GRADE 310
    - ASTM A 572 - GRADE 315
    - ASTM A 572 - GRADE 320
    - ASTM A 572 - GRADE 325
    - ASTM A 572 - GRADE 330
    - ASTM A 572 - GRADE 335
    - ASTM A 572 - GRADE 340
    - ASTM A 572 - GRADE 345
    - ASTM A 572 - GRADE 350
    - ASTM A 572 - GRADE 355
    - ASTM A 572 - GRADE 360
    - ASTM A 572 - GRADE 365
    - ASTM A 572 - GRADE 370
    - ASTM A 572 - GRADE 375
    - ASTM A 572 - GRADE 380
    - ASTM A 572 - GRADE 385
    - ASTM A 572 - GRADE 390
    - ASTM A 572 - GRADE 395
    - ASTM A 572 - GRADE 400
    - ASTM A 572 - GRADE 405
    - ASTM A 572 - GRADE 410
    - ASTM A 572 - GRADE 415
    - ASTM A 572 - GRADE 420
    - ASTM A 572 - GRADE 425
    - ASTM A 572 - GRADE 430
    - ASTM A 572 - GRADE 435
    - ASTM A 572 - GRADE 440
    - ASTM A 572 - GRADE 445
    - ASTM A 572 - GRADE 450
    - ASTM A 572 - GRADE 455
    - ASTM A 572 - GRADE 460
    - ASTM A 572 - GRADE 465
    - ASTM A 572 - GRADE 470
    - ASTM A 572 - GRADE 475
    - ASTM A 572 - GRADE 480
    - ASTM A 572 - GRADE 485
    - ASTM A 572 - GRADE 490
    - ASTM A 572 - GRADE 495
    - ASTM A 572 - GRADE 500
    - ASTM A 572 - GRADE 505
    - ASTM A 572 - GRADE 510
    - ASTM A 572 - GRADE 515
    - ASTM A 572 - GRADE 520
    - ASTM A 572 - GRADE 525
    - ASTM A 572 - GRADE 530
    - ASTM A 572 - GRADE 535
    - ASTM A 572 - GRADE 540
    - ASTM A 572 - GRADE 545
    - ASTM A 572 - GRADE 550
    - ASTM A 572 - GRADE 555
    - ASTM A 572 - GRADE 560
    - ASTM A 572 - GRADE 565
    - ASTM A 572 - GRADE 570
    - ASTM A 572 - GRADE 575
    - ASTM A 572 - GRADE 580
    - ASTM A 572 - GRADE 585
    - ASTM A 572 - GRADE 590
    - ASTM A 572 - GRADE 595
    - ASTM A 572 - GRADE 600
    - ASTM A 572 - GRADE 605
    - ASTM A 572 - GRADE 610
    - ASTM A 572 - GRADE 615
    - ASTM A 572 - GRADE 620
    - ASTM A 572 - GRADE 625
    - ASTM A 572 - GRADE 630
    - ASTM A 572 - GRADE 635
    - ASTM A 572 - GRADE 640
    - ASTM A 572 - GRADE 645
    - ASTM A 572 - GRADE 650
    - ASTM A 572 - GRADE 655
    - ASTM A 572 - GRADE 660
    - ASTM A 572 - GRADE 665
    - ASTM A 572 - GRADE 670
    - ASTM A 572 - GRADE 675
    - ASTM A 572 - GRADE 680
    - ASTM A 572 - GRADE 685
    - ASTM A 572 - GRADE 690
    - ASTM A 572 - GRADE 695
    - ASTM A 572 - GRADE 700
    - ASTM A 572 - GRADE 705
    - ASTM A 572 - GRADE 710
    - ASTM A 572 - GRADE 715
    - ASTM A 572 - GRADE 720
    - ASTM A 572 - GRADE 725
    - ASTM A 572 - GRADE 730
    - ASTM A 572 - GRADE 735
    - ASTM A 572 - GRADE 740
    - ASTM A 572 - GRADE 745
    - ASTM A 572 - GRADE 750
    - ASTM A 572 - GRADE 755
    - ASTM A 572 - GRADE 760
    - ASTM A 572 - GRADE 765
    - ASTM A 572 - GRADE 770
    - ASTM A 572 - GRADE 775
    - ASTM A 572 - GRADE 780
    - ASTM A 572 - GRADE 785
    - ASTM A 572 - GRADE 790
    - ASTM A 572 - GRADE 795
    - ASTM A 572 - GRADE 800
    - ASTM A 572 - GRADE 805
    - ASTM A 572 - GRADE 810
    - ASTM A 572 - GRADE 815
    - ASTM A 572 - GRADE 820
    - ASTM A 572 - GRADE 825
    - ASTM A 572 - GRADE 830
    - ASTM A 572 - GRADE 835
    - ASTM A 572 - GRADE 840
    - ASTM A 572 - GRADE 845
    - ASTM A 572 - GRADE 850
    - ASTM A 572 - GRADE 855
    - ASTM A 572 - GRADE 860
    - ASTM A 572 - GRADE 865
    - ASTM A 572 - GRADE 870
    - ASTM A 572 - GRADE 875
    - ASTM A 572 - GRADE 880
    - ASTM A 572 - GRADE 885
    - ASTM A 572 - GRADE 890
    - ASTM A 572 - GRADE 895
    - ASTM A 572 - GRADE 900
    - ASTM A 572 - GRADE 905
    - ASTM A 572 - GRADE 910
    - ASTM A 572 - GRADE 915
    - ASTM A 572 - GRADE 920
    - ASTM A 572 - GRADE 925
    - ASTM A 572 - GRADE 930
    - ASTM A 572 - GRADE 935
    - ASTM A 572 - GRADE 940
    - ASTM A 572 - GRADE 945
    - ASTM A 572 - GRADE 950
    - ASTM A 572 - GRADE 955
    - ASTM A 572 - GRADE 960
    - ASTM A 572 - GRADE 965
    - ASTM A 572 - GRADE 970
    - ASTM A 572 - GRADE 975
    - ASTM A 572 - GRADE 980
    - ASTM A 572 - GRADE 985
    - ASTM A 572 - GRADE 990
    - ASTM A 572 - GRADE 995
    - ASTM A 572 - GRADE 1000
2. ALL WELDS, UNLESS NOTED OR A99 OTHERWISE, SHALL BE WELDED TO THE FOLLOWING SPECIFICATIONS:
  - ASTM A 572 - GRADE 50
  - ASTM A 572 - GRADE 60
  - ASTM A 572 - GRADE 65
  - ASTM A 572 - GRADE 70
  - ASTM A 572 - GRADE 80
  - ASTM A 572 - GRADE 85
  - ASTM A 572 - GRADE 90
  - ASTM A 572 - GRADE 100
  - ASTM A 572 - GRADE 105
  - ASTM A 572 - GRADE 110
  - ASTM A 572 - GRADE 115
  - ASTM A 572 - GRADE 120
  - ASTM A 572 - GRADE 125
  - ASTM A 572 - GRADE 130
  - ASTM A 572 - GRADE 135
  - ASTM A 572 - GRADE 140
  - ASTM A 572 - GRADE 145
  - ASTM A 572 - GRADE 150
  - ASTM A 572 - GRADE 155
  - ASTM A 572 - GRADE 160
  - ASTM A 572 - GRADE 165
  - ASTM A 572 - GRADE 170
  - ASTM A

RE-SUBMITTAL OF BID INVITES CONTRACTOR IS COVENANT OF ALL JOB SITE CONDITIONS AND CONTRACTOR SHALL PERFORM UNDER THIS CONTRACT.

2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER.

3. HEIGHTS SHALL BE VERIFIED WITH POLE OWNER PRIOR TO INSTALLATION.

1. EACH COMPONENT OF ANY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL, BOARD, CONTROL, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
2. CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPER, OPERATIVE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND DIFFERENT REQUIREMENTS AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS INDICATED BY THE FIELD SUPERVISOR.
3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CASE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND DIFFERENT REQUIREMENTS AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS INDICATED BY THE FIELD SUPERVISOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND DIFFERENT REQUIREMENTS AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS INDICATED BY THE FIELD SUPERVISOR. CONTRACTOR SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING AGENCIES, BEFORE ANY WORK IS BEGUN. ALL MATERIALS MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NFPA.
4. ALL CONDUIT SHALL CARRY OUT THE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL CARRY OUT ALL WORK IN ACCORDANCE WITH ALL GOVERNING UTILITY, STATE, COUNTY AND LOCAL CODES & O.S.H.A.
6. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.
7. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
8. SPARE CONDUIT SHALL HAVE A PULL WIRE OR ROPE.
9. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB. SHOWING ALL ELECTRICAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
10. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
11. ALL WIRE #12 TO #8 SHALL BE STRIPPED COPPER TYPE THHN-THHN CONDUCTORS #4 AND LARGER SHALL BE COPPER TYPE ALUM.
12. ALL CABLES SHALL BE COPPER TYPE THHN-THHN. EQUIPMENT SHALL HAVE AN INTERLOCKING DOING NOT EXCEED THE MAXIMUM PERMITTED CURRENT. ALL CABLES TO WHICH THEY BE SUBJECTED AND A MINIMUM OF 25,000 A.M.P. UNLESS OTHERWISE INDICATED.
13. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
14. REPAIR ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
15. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR PIPING, WATER PIPES, ETC. IT WILL BE CLEARLY INDICATED ON DRAWINGS. REMOVING STEEL WILL NOT BE DRILLED IN CUT OR DAMAGED UNLESS ANY CIRCUMSTANCES.
16. ALL MATERIALS SHALL BE U.S. LISTED.

1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERIES, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

3. ALL TRAFFIC CONTROL DEVICES, BARRIERS, AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE PLACED IN POSITION WHEN THEY ARE REQUIRED FOR CONTROL OF TRAFFIC.
4. ALL TRAFFIC CONTROL DEVICES, BARRIERS, AND ALL OTHER TRAFFIC CONTROL DEVICES LOCATED ON OR NEAR THE TRAVELLED WAY, CHANGING DEVICES, BARRIERS, AND SIGNS OPERATIONS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR MANUAL FOR ASSESSING STREET PAVEMENT (MSP).
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELLED WAY, CHANGING DEVICES, BARRIERS, AND SIGNS OPERATIONS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR MANUAL FOR ASSESSING STREET PAVEMENT (MSP).
6. CONTRACTORS SHALL COORDINATE WITH THE ABUTTING PROPERTIES NEAR THE POLE AT LEAST 72 HOURS BEFORE THE PROPOSED CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES, BARRIERS, AND SIGNS OPERATIONS. THIS COORDINATION SHALL INCLUDE: EXISTING PAVEMENT CONDITION, TEMPORARY ORIGINARY PAVEMENT, PLACEMENT, AND SPECIAL OPERATIONS.
7. THE FIRST FIVE PLASTIC DRUMS OF A PILET SHALL BE MOUNTED WITH TYPE A LIGHTS.
8. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPPI (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
9. MINIMUM LANE WIDTH IS TO BE 11 FEET (11-00) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRIVE OR MEDIAN BARRIER.
10. PAVING PRESTRICTION ACCESS SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT A CONSTRUCTION OF PRESTRICTION OR PROHIBITED SAFE ROUTES. ALL PRESTRICTION ROUTES SHALL MEET APPLICABLE ACCESSIBILITY REQUIREMENTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AT THIS LOCATION. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS, DRUMS, CONES, AND OTHER TRAFFIC CONTROL DEVICES TO DIRECT VEHICLES AND PRESTRICTION AROUND THE WORK ZONE.

DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	22 23

COORDINATES:	N 42.329406° W 71.218464°	APPROXIMATE ADDRESS**	30 BEETHOVEN AVE. NEWTON, MA 02468	SHEET TITLE
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509-20  
GENERAL NOTES  
SHEET NUMBER  
G-1

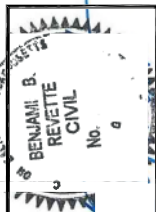


NEWTON MA SC01  
LOCATION CODE:  
498829  
FUZE ID:  
2579688

	CONSTRUCTION	DRAWINGS
A	04/10/20	FOR SUBMITTAL
0	03/20/20	FOR COMMENT



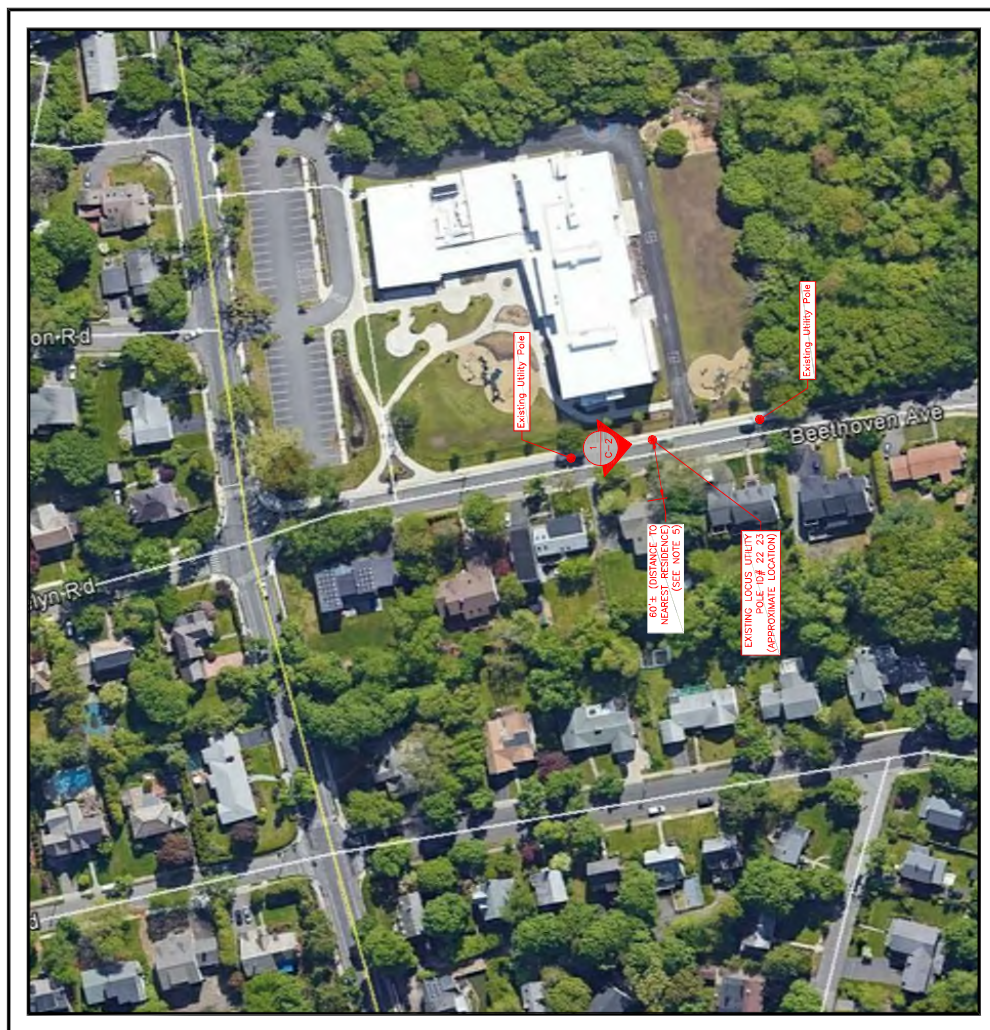
**Dewberry Engineers Inc.**  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



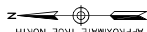
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DRAWN BY:	
REVIEWED BY:	
CHECKED BY:	
PROJECT NUMBER:	50721487
JOB NUMBER:	50721590
POLE ID:	22 23
COORDINATES:	N 42.329406° W 71.218464°
APPROXIMATE ADDRESS:	30 BEEHIVEN AVE. NEWTON, MA 02468
SHEET TITLE	LOCUS AERIAL MAP
SHEET NUMBER	

**509-20**

1



AERIAL MAP  
SCALE: N.T.S.



- NOTES:
1. NORTH ARROW SHOWN AS APPROXIMATE.
  2. THE DISTANCE PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
  3. POWER & FIBER TO BE COME FROM OVERHEAD WIRES. SERVICE SOURCES TO BE DETERMINED BY ARCHITECT.
  4. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DEBERRY ENGINEERS INC. ON 02/12/20.
  5. AERIAL MAP, COORDINATES & MAGNITUDE OF DISTANCE FROM DEBERRY ENGINEERS INC. ON 04/12/20. DISTANCE PRESENCE IS APPROXIMATE AND BASED ON GOOGLE EARTH IMAGERY.
  6. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY SPECIFICATIONS.
  7. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & IN ACCORDANCE WITH THE SPECIFICATIONS BY DEBERRY ENGINEERS INC. DATED 02/28/20.



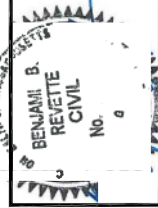


VERIZON WIRELESS  
1118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

NEWTON MA SC01  
LOCATION CODE:  
498829  
FUZE ID:  
2579688

CONSTRUCTION DRAWINGS	
0	04/10/20 FOR SUBMITTAL
A	03/20/20 FOR COMMENT

**Dewberry**  
Dewberry Engineers Inc.  
100 PARKER STREET  
SUITE 700  
BOSTON, MA 02110  
TEL: 617.552.6600  
FAX: 617.552.3310



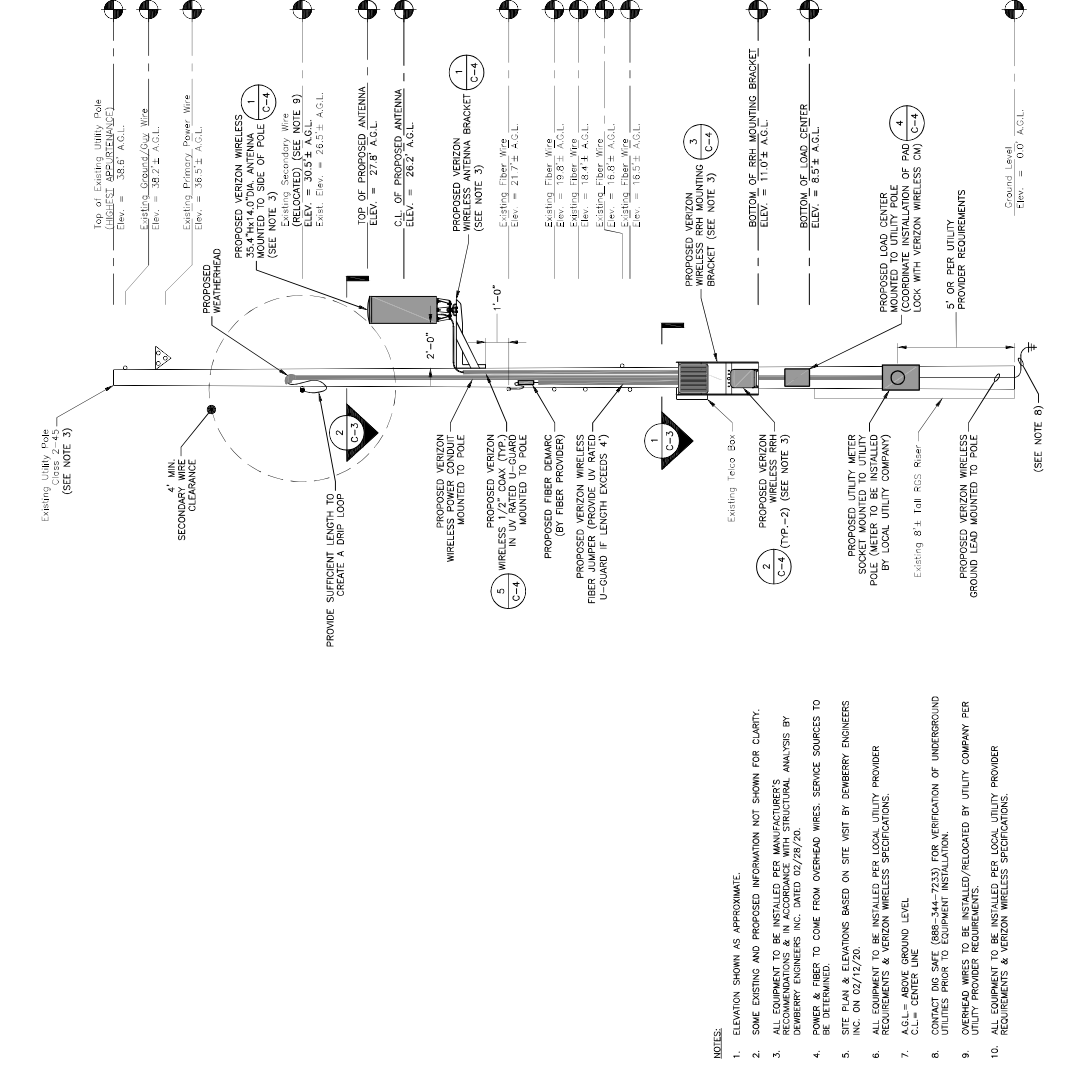
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REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	5021487
JOB NUMBER:	5021590
POLE ID:	22
	23

CORINATES:  
N 42.329406°  
W 71.218464°

APPROXIMATE ADDRESS:  
30 BEE THOVEN AVE.  
NEWTON, MA 02468

SHEET TITLE

POLE PHOTO & ELEVATION  
509-20  
C-2



POLE ELEVATION  
SCALE 3/16"=1' FOR 11"x17"  
3/8"=1' FOR 22"x34"



POLE PHOTO  
SCALE: N.T.S.

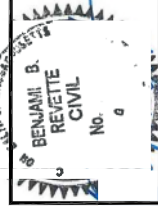


VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

NEWTON MA SC01  
LOCATION CODE:  
498829  
FUZE ID:  
2579688

CONSTRUCTION DRAWINGS			
0	04/10/20	FOR SUBMITTAL	
A	03/20/20	FOR COMMENT	

**Dewberry**  
Dewberry Engineers Inc.  
100 WASHINGTON STREET  
SUITE 700  
BOSTON, MA 02110  
TEL: 617.552.8600  
FAX: 617.552.8600  
WWW.DEBERRY.COM



DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	5021487
JOB NUMBER:	5021590
POLE ID:	22
	23

CORRELATES:

N 42.329406°  
W 71.218464°

APPROXIMATE ADDRESS\*\*

30 BEETHOVEN AVE.  
NEWTON, MA 02468

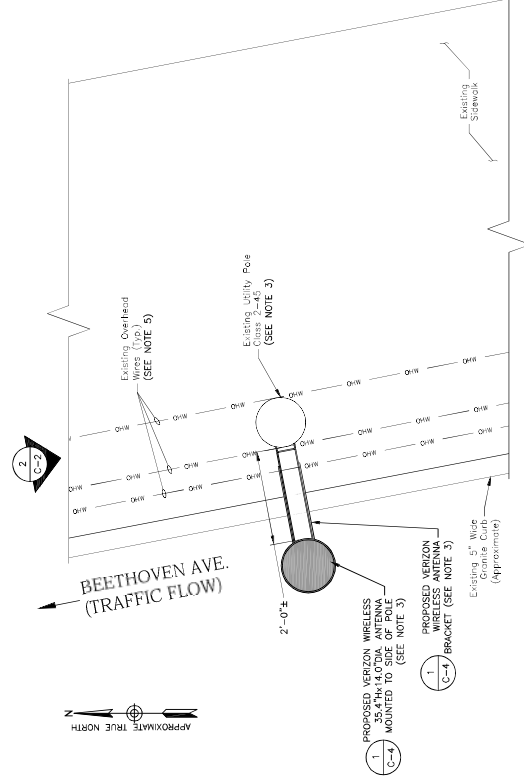
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EQUIPMENT & ANTENNA  
PLANS

SHEET NUMBER

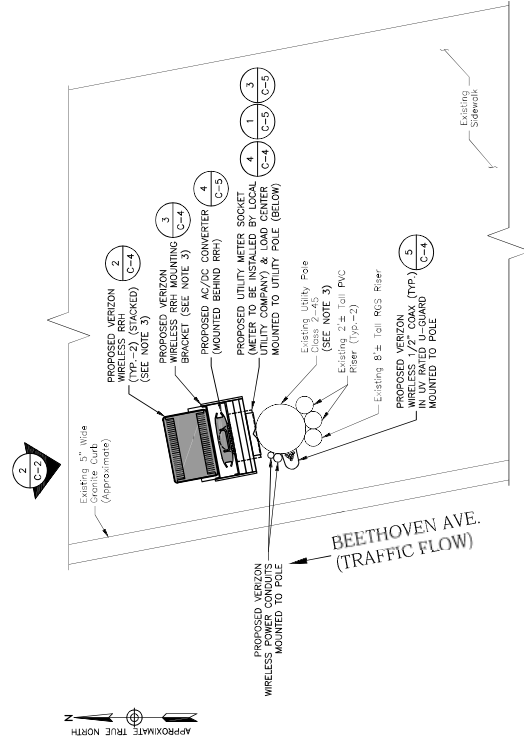
C-3

509-20



NOTE:  
1. SOME EXISTING/PROPOSED EQUIPMENT NOT SHOWN FOR CLARITY.

ANTENNA PLAN  
SCALE: 3/8"=1' FOR 11'x17"  
3/4"=1' FOR 22'x34"



NOTE:  
1. SOME EXISTING/PROPOSED EQUIPMENT NOT SHOWN FOR CLARITY.

EQUIPMENT PLAN  
SCALE: 3/8"=1' FOR 11'x17"  
3/4"=1' FOR 22'x34"

- NOTES:
1. NORTH ARROW SHOWN AS APPROXIMATE.
  2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
  3. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & IN ACCORDANCE WITH STRUCTURAL ANALYSIS OF DEWBERRY ENGINEERS INC. DATE 02/28/20.
  4. POWER & FIBER TO COME FROM OVERHEAD WIRES. SERVICE SOURCES TO BE DETERMINED.
  5. SITE PLAN & ELEVATIONS BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 02/17/20.
  6. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VERIZON WIRELESS SPECIFICATIONS.
  7. A.G.L.= ABOVE GROUND LEVEL.
  8. CONTACT DIS SITE (888-344-7233) FOR VERIFICATION OF UNDERGROUND UTILITIES PRIOR TO EQUIPMENT INSTALLATION.
  9. OVERHEAD WIRES TO BE INSTALLED/RELOCATED BY UTILITY COMPANY PER UTILITY PROVIDER REQUIREMENTS.
  10. ALL EQUIPMENT TO BE INSTALLED PER LOCAL UTILITY PROVIDER REQUIREMENTS & VERIZON WIRELESS SPECIFICATIONS.



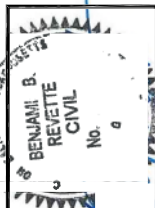
NEWTON MA SC01  
LOCATION CODE:  
498829  
FUZE ID:  
2579688

## CONSTRUCTION DRAWINGS

O	04/10/20		FOR SUBMITTAL	
A	03/20/20		FOR COMMENT	



**Dewberry Engineers Inc.**  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617 695 3400  
FAX: 617 695 2310



DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	

22  
23

COORDINATES:

N 42.329406°  
W 71.218464°

APPROXIMATE ADDRESS\*\*

30 BEETHOVEN AVE.  
NEWTON MA 02468

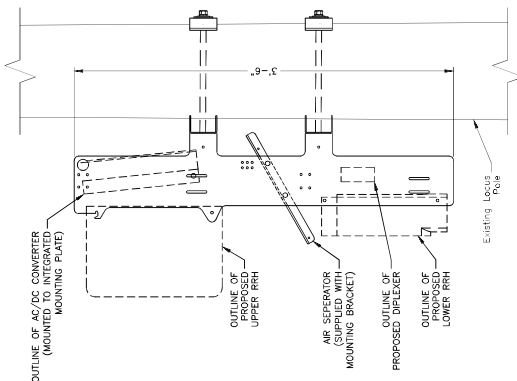
SHEET TITLE

509-20

EQUIPMENT DETAILS

SHEET NUMBER

C-4



**NOTE:**

1. INSTALL RRH MOUNTING BRACKET USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.
2. VERIFY FINAL MOUNTING BRACKET SPECIFICATIONS WITH VERIZON WIRELESS CM PRIOR TO CONSTRUCTION

RRH MOUNTING BRACKET  
SCALE: N.T.S.

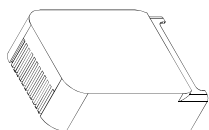


DIPLEXER SPECIFICATION
DIMENSIONS: 4.8"H x 7.9"W x 3.3"D WEIGHT: 7.6± LBS.

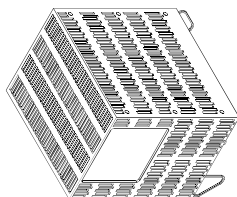
DIPLXER DETAIL

6

SCALE: N.T.S.



DIMENSIONS:	13.9"±H 9.8"±W 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	1 TOTAL



DIMENSIONS:	17.3"±H 17.3"±W 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	1 TOTAL

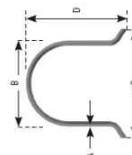
**NOTE:** CONTRACTOR TO VERIFY WITH CONSTRUCTION MANAGER FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

2  
TYPICAL RRH DETAILS  
SCALE: N.T.S.



**NOTE:**

1. PROVIDE STAINLESS STEEL LAG BOLT ANCHORS AS REQUIRED.

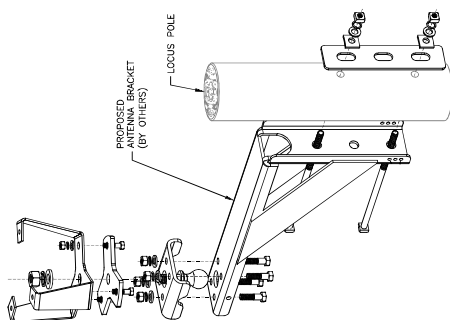


U-RISER LINE GUARD

URISER LINE GUARD				
SFE PROJ. (6 IN) OR APPROVED EQU.	DESCRIPTION	A	B	D
12-2-1010	2"x10" RISER LINE GUARD	1/8"	2-3/8"	4-1/2"
12-3-10010	3"x10" RISER LINE GUARD	1/8"	3-1/2"	6"
12-4-1010	4"x10" RISER LINE GUARD	1/8"	4-1/2"	6-1/2"

U-GUARD SHALL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS & RECOMMENDATIONS.

U-GUARD DETAIL  
SCALE: N.T.S.



## MOUNTING BRACKET



## ANTENNA OVERVIEW

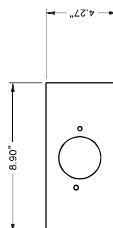
<b>ANTENNA SPECIFICATIONS</b>
DIMENSIONS: 14.0" $\phi$ x 35.4"H
WEIGHT: 35 $\pm$ LBS

**NOTE:**

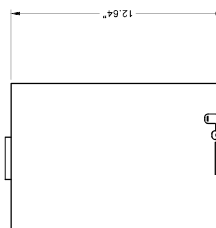
1. INSTALL ANTENNA USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.
2. VERIFY FINAL MOUNTING BRACKET SPECIFICATIONS WITH VERIZON WIRELESS CM PRIOR TO CONSTRUCTION

### ANTENNA & MOUNTING BRACKET DETAIL

SCALE: NT\$.  
1



PLAN VIEW



FRONT VIEW

**NOTE:** INSTALL LOAD CENTER USING RECOMMENDED HARDWARE IN ACCORDANCE WITH MANUFACTURER GUIDELINES & SPECIFICATIONS.

## 100 AMP LOAD CENTER DETAIL C

100 AMF LOAD CENTER DETAIL (4)

SCALE: N.T.S.



VERIZON WIRELESS  
1118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

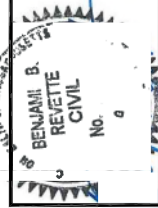
NEWTON MA SC01  
LOCATION CODE:  
498829

FUZE ID:  
2579688

CONSTRUCTION DRAWINGS	
0	04/10/20 FOR SUBMITTAL
A	03/20/20 FOR COMMENT



Dewberry Engineers Inc.  
1000 DEER STREET  
SUITE 700  
BOSTON, MA 02110  
TEL: 617.660.4600  
FAX: 617.660.3310



DRAWN BY:	SK
REVIEWED BY:	JCM
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121590
POLE ID:	22
	23

CORINATES:

N 42.329406°  
W 71.218484°

APPROXIMATE ADDRESS\*\*

30 BEE THOVEN AVE.  
NEWTON, MA 02468

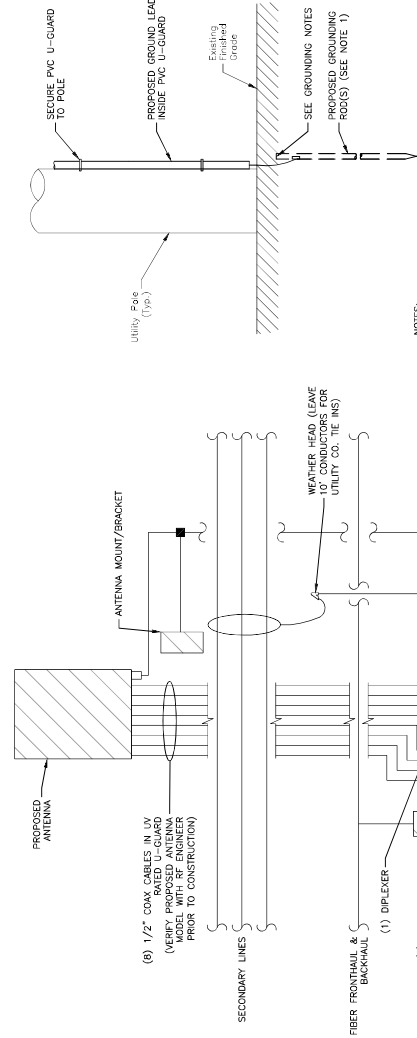
SHEET TITLE

WIRING DIAGRAM &  
DETAILS

SHEET NUMBER

C-5

509-20



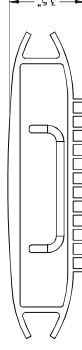
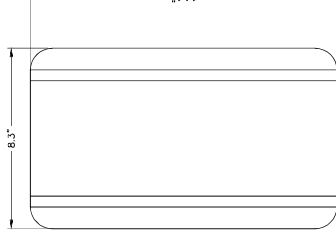
- NOTES:
- GROUND ROD(S) SHALL BE INSTALLED IN UNDISTURBED SOIL, 12" MIN. AWAY FROM THE POLE, TOP OF GROUND ROD(S) SHALL BE 4" MIN. BELOW FINISHED GRADE. THE GROUNDING RESISTANCE SHALL BE PER THE UTILITY PROVIDER REQUIREMENTS.
  - GROUND PER REQUIREMENTS OF THE AUTHORITY, HAVING JURISDICTION & UTILITY COMPANY REQUIREMENTS. SEE NATIONAL ELECTRICAL CODE (NEC), SECTION 250.

GROUNDING ROD DETAIL 2

SCALE: N.T.S.

LOAD CENTER SCHEDULE 3

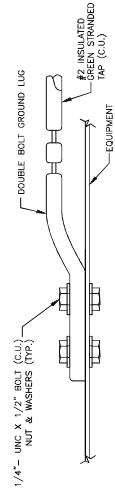
SCALE: N.T.S.



AC/DC CONVERTER SPECIFICATION	
DIMENSIONS:	14.1"H x 8.3"W x 3.5"D
WEIGHT:	14.1 LBS.

AC/DC CONVERTER DETAIL 4

SCALE: N.T.S.



GROUNDING DETAIL 5

SCALE: N.T.S.

- NOTES:
- FINAL ELECTRICAL AND FIBER SOURCE PENDING FINAL DESIGN & UTILITY APPROVAL.
  - VERIZON WIRELESS TO FIELD TEST AND TIE INTO EXISTING GROUNDING SYSTEM, IF GROUNDING SYSTEM DOES NOT MEET VERIZON WIRELESS STANDARDS. IF NOT FOUND, VERIZON WIRELESS TO PROVIDE AND INSTALL GROUNDING SYSTEM PER UTILITY THROUGH & VERIZON WIRELESS REQUIREMENTS AND SPECIFICATIONS.
  - VERIFY FINAL ANTENNA DESIGN WITH RF ENGINEER.
  - CONTACT DIG SAT (888-344-7233) FOR VERIFICATION OF UNDERGROUND UTILITIES PRIOR TO EQUIPMENT INSTALLATION.

WIRING DIAGRAM 1

SCALE: N.T.S.

# EXHIBIT F



February 28, 2020

Verizon Wireless  
118 Flanders Road  
Westborough, MA 01581

**Re:   Newton MA SC01  
      42°19'45.86"N 71°13'06.47"W  
      30 Beethoven Ave.  
      Newton, MA 02468**

To Whom It May Concern:

Dewberry Engineers Inc. (Dewberry) has evaluated the proposed equipment installation by Verizon at the above referenced site. The existing pole is a Class 2-45 southern pine timber utility pole set approximately 6'-6" into the ground. See latest Construction Drawings by Dewberry for line elevations and equipment specifications.

The existing utility pole was analyzed in accordance with National Electric Safety Code (NESC) Grade "C" construction standards and Massachusetts State Building Code – 780 CMR (Amendments to IBC 2015). Analysis assumes wire types and wire diameters using photos of the existing pole. Per our analysis, **the existing pole is adequate** to support the proposed installation as shown in Construction Drawings by Dewberry.

Our assessment is based on the assumption that the utility pole and associated accessories are constructed in conformance with all applicable state and local building codes. If during construction any damage or deterioration is noticed, Dewberry is to be notified to assess any deviation from the assumed condition. The addition or reconfiguration of any new equipment not accounted for in this assessment will require further analysis and design.

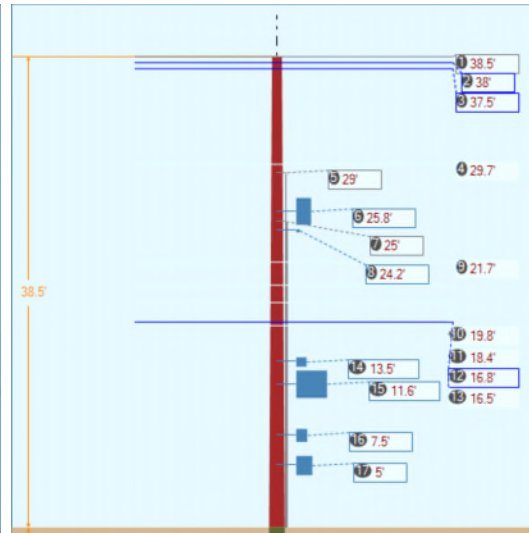
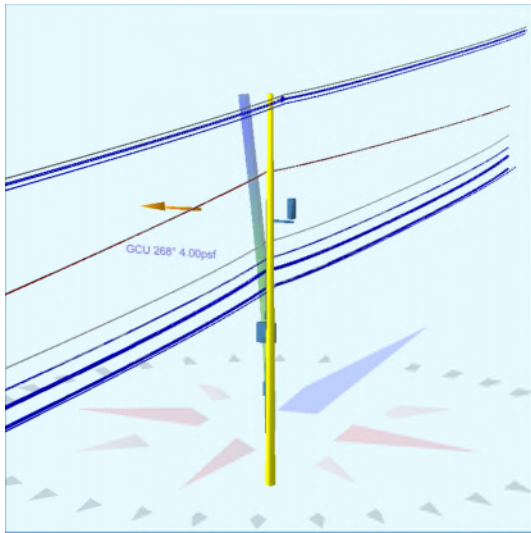
If you have any questions, please do not hesitate to call me at 617-531-0810.

Sincerely,  
**Dewberry Engineers Inc.**



Sahnoune Abed, P.E.  
Structural Project Engineer

Pole Num:	22/23	Pole Length / Class:	45 / 2	Code:	NESC	Structure Type:	Unguyed Tangent
Street Address	Beethoven Ave.	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Unguyed
City, State	Newton, MA	Setting Depth (ft):	6.50	Construction Grade:	C	Pole Strength Factor:	0.85
Zip Code	02468	G/L Circumference (in):	40.30	Loading District:	Heavy	Transverse Wind LF:	1.75
Designer	SMS	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.50	Wire Tension LF:	1.00
Checker	SA	Allowable Stress (psi):	6,800	Wind Speed (mph):	39.53	Vertical LF:	1.90
Approver	SA	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:	42 Deg 19 Min 45.860000 Sec N	Longitude:	71 Deg 13 Min 6.470000 Sec W	Elevation:			0 Feet



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	37.4	0.0	267.9
Groundline	37.4	0.0	267.9
Vertical	15.7	21.0	267.9

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	42,843	256.2	267.9
Groundline	42,843	256.2	267.9
GL Allowable	117,445		
Overturn	73,814		

**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 256.2°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	1,004	55.1	27,095	63.2	23.1	1,572	4,325	33	1,606	23.6
Comms	499	27.3	9,907	23.1	8.4	575	654	5	580	8.5
GenericEquipments	50	2.7	638	1.5	0.5	37	481	4	41	0.6
Pole	229	12.5	4,416	10.3	3.8	256	2,633	20	277	4.1
Risers	37	2.0	661	1.5	0.6	38	103	1	39	0.6
Insulators	5	0.3	127	0.3	0.1	7	101	1	8	0.1
Pole Load	1,823	100.0	42,843	100.0	36.5	2,486	8,297	64	2,550	37.5
Pole Reserve Capacity			74,602		63.5	4,314			4,250	62.5

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 256.2°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Exist.	1,484	81.4	36,381	84.9	31.0	2,111	4,993	39	2,150	31.6
<Undefined>	24	1.3	748	1.8	0.6	43	87	1	44	0.6
Prop.	87	4.8	1,299	3.0	1.1	75	584	5	80	1.2
Pole	229	12.5	4,416	10.3	3.8	256	2,633	20	277	4.1
<b>Totals:</b>	1,823	100.0	42,843	100.0	36.5	2,486	8,297	64	2,550	37.5

**Detailed Load Components:**

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Unknown	CATV .50	Exist.	16.48	8.17	0.5700		0.600	100.0	0.0	100.0			69	310	379
Unknown	TELE 2.0	Exist.	16.43	7.10	2.0000		2.000	100.0	0.0	100.0			134	310	444
Unknown	CATV .50	Exist.	16.35	7.90	0.5700		0.600	100.0	0.0	100.0			66	308	374
Unknown	CATV .50	Exist.	16.48	8.17	0.5700		0.600	102.0	180.0	102.0			70	317	387
Unknown	TELE 2.0	Exist.	16.43	7.10	2.0000		2.000	102.0	180.0	102.0			137	316	453
Unknown	CATV .50	Exist.	16.35	7.90	0.5700		0.600	102.0	180.0	102.0			68	314	382
Unknown	SS 26 GA 25 PR (0.51)	Exist.	16.80	7.85	0.5100	1.74	0.260	100.0	0.0	100.0	1,173	-4,704	-54	718	-4,039
Unknown	SS 26 GA 25 PR (0.51)	Exist.	16.80	7.85	0.5100	1.78	0.260	102.0	180.0	102.0	1,172	4,701	-55	732	5,378

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Unknown	SS 26 GA 25 PR (0.51)	Exist.	16.80	7.85	0.5100	1.74	0.260	100.0	0.0	100.0	1,173	-4,704	-54	718	-4,039
Unknown	SS 26 GA 25 PR (0.51)	Exist.	16.80	7.85	0.5100	1.78	0.260	102.0	180.0	102.0	1,172	4,701	-55	732	5,378
Unknown	CATV 1.0	Exist.	18.31	7.73	1.3300		1.200	100.0	0.0	100.1			97	313	410
Unknown	CATV 1.0	Exist.	18.37	6.76	1.3300		1.200	100.0	0.0	100.1			83	314	397
Unknown	CATV 1.0	Exist.	18.48	7.15	1.3300		1.200	100.0	0.0	100.1			89	316	404
Unknown	CATV 1.0	Exist.	18.48	8.38	1.3300		1.200	100.0	0.0	100.1			106	316	421
Unknown	CATV 1.0	Exist.	18.37	8.74	1.3300		1.200	100.0	0.0	100.1			110	314	424
Unknown	CATV 1.0	Exist.	18.31	7.73	1.3300		1.200	102.0	180.0	102.1			99	319	418
Unknown	CATV 1.0	Exist.	18.37	6.76	1.3300		1.200	102.0	180.0	102.1			85	320	405
Unknown	CATV 1.0	Exist.	18.48	7.15	1.3300		1.200	102.0	180.0	102.1			90	322	413
Unknown	CATV 1.0	Exist.	18.48	8.38	1.3300		1.200	102.0	180.0	102.1			108	322	430
Unknown	CATV 1.0	Exist.	18.37	8.74	1.3300		1.200	102.0	180.0	102.1			113	320	433
Unknown	CATV .75	Exist.	19.75	7.66	1.0700		0.900	100.0	0.0	100.0			86	370	456
Unknown	CATV .75	Exist.	19.75	7.66	1.0700		0.900	102.0	180.0	102.0			88	377	466
Secondary	TRIPLEX 6 AWG		29.66	7.30	0.5800		0.113	100.0	0.0	100.0			26	350	376
Secondary	TRIPLEX 6 AWG		29.66	6.77	0.5800		0.113	100.0	0.0	100.0			24	350	374
Secondary	TRIPLEX 6 AWG	Exist.	29.66	7.30	0.5800		0.113	102.0	180.0	102.0			26	357	383
Secondary	TRIPLEX 6 AWG	Exist.	29.66	6.77	0.5800		0.113	102.0	180.0	102.0			24	357	381
Neutral	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.50	20.76	0.5630	1.16	0.292	100.0	0.0	100.0	2,409	-22,152	-152	1,704	-20,600
Neutral	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.50	20.76	0.5630	1.18	0.292	102.0	180.0	102.0	2,409	22,152	-155	1,738	23,735
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	37.50	20.76	0.5630	1.16	0.291	100.0	0.0	100.0	2,409	-21,577	-152	1,660	-20,069
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	37.50	20.76	0.5630	1.19	0.291	102.0	180.0	102.0	2,409	21,577	-155	1,693	23,115
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.00	18.15	0.5630	1.16	0.291	100.0	0.0	100.0	2,409	-21,864	-136	1,682	-20,318
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.00	18.15	0.5630	1.19	0.291	102.0	180.0	102.0	2,409	21,864	-139	1,716	23,441
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.00	23.76	0.5630	1.16	0.291	100.0	0.0	100.0	2,409	-21,864	-168	1,682	-20,350
Primary	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	38.00	23.76	0.5630	1.19	0.291	102.0	180.0	102.0	2,409	21,864	-171	1,716	23,409
Twist/Braid Bundle	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	29.70	7.04	0.5630	0.63	0.242	100.0	0.0	100.0	3,326	-23,563	32	1,191	-22,340
Twist/Braid Bundle	ACSR 4/0 AWG 6/1 PENGUIN	Exist.	29.70	7.04	0.5630	0.63	0.242	102.0	180.0	102.0	3,415	24,194	32	1,215	25,441
											<b>Totals:</b>	<b>625</b>	<b>418</b>	<b>26,109</b>	<b>27,153</b>

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Overlashed Bundle 10M	Exist.	16.50	7.87	0.3060	1.09	0.165	100.0	0.0	100.0	4,863	-19,151	40	778	-18,334

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Overlashed Bundle	10M	Exist.	16.50	7.87	0.3060	1.11	0.165	102.0	180.0	102.0	4,950	19,494	41	793	20,328
Overlashed Bundle	12.5M	Exist.	18.40	7.75	0.3430	1.34	0.208	100.0	0.0	100.1	7,039	-30,912	38	835	-30,039
Overlashed Bundle	12.5M	Exist.	18.40	7.75	0.3430	1.34	0.208	102.0	180.0	102.1	7,288	32,008	39	852	32,899
Overlashed Bundle	8M	Exist.	19.80	7.66	0.2720	1.21	0.131	100.0	0.0	100.0	1,848	-8,732	41	931	-7,759
Overlashed Bundle	8M	Exist.	19.80	7.66	0.2720	1.24	0.131	102.0	180.0	102.0	1,877	8,870	42	950	9,862
Overlashed Bundle	6M	Exist.	21.70	7.54	0.2420	1.36	0.104	100.0	0.0	100.0	1,029	-5,327	26	860	-4,441
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	21.67	7.81	0.5930		0.130	100.0	0.0	100.0			29	245	274
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	21.67	7.27	0.5930		0.130	100.0	0.0	100.0			27	245	272
Overlashed Bundle	6M	Exist.	21.70	7.54	0.2420	1.39	0.104	102.0	180.0	102.0	1,043	5,404	27	877	6,308
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	21.67	7.81	0.5930		0.130	102.0	180.0	102.0			30	250	280
Fiber	BELOPTIX MLD6072 - 72 FIBERS - OUTDOOR (0.593)	Exist.	21.67	7.27	0.5930		0.130	102.0	180.0	102.0			27	250	278
											Totals:	1,655	406	7,868	9,929

Generic Equipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	Side Mount	Prop.	24.25	18.88	90.0	0.0	15.40	3.00	28.00	--	3.00	-45	18	-27
Cylinder	Antenna	Prop.	25.75	30.88	90.0	0.0	30.90	26.40	--	12.00	--	-147	366	219
Box	Diplexer	Prop.	13.50	9.56	180.0	0.0	12.00	9.00	5.00	--	8.30	4	47	51
Box	RRH Mount	Prop.	11.63	13.68	180.0	0.0	160.00	27.00	10.00	--	25.00	83	242	325
Box	Load Center	Prop.	7.50	9.44	180.0	0.0	20.00	12.65	4.00	--	8.90	7	29	36
Box	Utility Meter	Prop.	5.00	9.60	180.0	0.0	15.00	19.00	4.00	--	13.00	5	30	35
											Totals:	-92	731	639

Riser		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser 160.0°	Riser	Prop.	25.00	6.57	160.0	160.0	25.00	300.00	2.00	2.00	300.00	-1	453	452
Riser 230.0°	Riser	Prop.	29.00	6.57	230.0	230.0	29.00	348.00	1.00	1.00	348.00	14	197	211
											Totals:	12	650	662

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Bolt	Single Bolt	Exist.	16.50	0.00	270.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Single Bolt	Exist.	16.80	0.00	90.0	0.0	5.00	3.00	0.00	-6	0	-6
Bolt	Single Bolt	Exist.	18.40	0.00	270.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Single Bolt	Exist.	19.80	0.00	270.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Single Bolt	Exist.	21.70	0.00	270.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Single Bolt	Exist.	29.70	0.00	270.0	0.0	5.00	3.00	0.00	5	0	5
Post	Post Insulator - 35 kV	Exist.	38.00	0.00	90.0	90.0	23.00	5.75	16.75	-73	177	104
									Totals:	-50	177	127

Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	21.02	33.11	11.95	21.34	7.96	12.83	1.60e+6	60.00	57.00	38.50	52,768	528.47	6.37

## **ASSUMPTIONS & LIMITATIONS**

This report was developed using general project information provided by general field observations, reference information and utility companies' guidelines. All pole information is based on a visual ground inspection. All recommendations pertain to the existing and the proposed pole construction, location, and loading as described in this report. Dewberry assumes no responsibility for failures caused by factors not considered in our report. These include but are not limited to the following:

1. Improper pole maintenance
2. Improper pole manufacturing and/or construction
3. Improper pole installation & associated equipment (Out of plumb)
4. Missing, corroding, decaying and/or deteriorating components
5. Improper original construction and/or soil preparation with the proper base embedment

Dewberry assumes no responsibility for modifications completed prior to or hereafter in which Dewberry was not directly involved. These modifications include but are not limited to the following:

1. Replacing or strengthening pole components
2. Installing or removing antenna mounting components
3. Installing or removing utility components
4. Changing loading configurations

Utility companies are responsible for verifying the proposed loading on the pole is consistent with the loading applied to the pole within this report.

# EXHIBIT G





2/6/2020

To: City of Newton

Transmitted via email

RE: Verizon Wireless Small Cell Sites

Dear City of Newton,

Verizon is installing additional wireless telecommunications facilities in order to meet the growing demand for Verizon Wireless service by residents, businesses, visitors, and emergency responders.

To ensure general public safety, it is important that you contact Verizon Wireless personnel at least 24 hours in advance should general maintenance need to be performed in areas of potential concern as marked on the next page of this document. This is required to comply with FCC guidelines and ensure the environment is safe for general maintenance workers who may require RF Safety & Awareness training. With notification, Verizon Wireless is able to evaluate appropriate actions needed relating to the antennas and proximity of the work location.

Thank you for your inquiry. Verizon has a process to deactivate power on small cells (regardless of whether the small cell is 4G or 5G) while work is being done on the pole (including joint use poles). The information needed to have a small cell powered down for work to occur on the pole (including contact numbers and pole identifiers) is provided at a safe distance from the small cell on the pole itself. Please contact Verizon Wireless personnel at least 24 hours in advance if you need to perform maintenance at that site. If you have any additional questions, our point of contact in that area is Luis Teves.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. The Federal Communications Commission (FCC) has developed safety rules for human exposure to RF emissions in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. These rules can be found at 47 C.F.R § 1.1310. No matter which generation of technology we use, all Verizon equipment must comply with these safety requirements.

The FCC supported and adopted the standards after examining the RF research that scientists in the US and around the world conducted for decades. The research continues to this day, and agencies continue to monitor it. Based on that research, federal agencies have concluded that equipment that has been deployed in a manner that complies with the safety standards poses no known health risks. You can obtain further information about the safety of RF emissions from cell towers on the FCC's website, which you can access via this link: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html>.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to [VZWRFCompliance@verizonwireless.com](mailto:VZWRFCompliance@verizonwireless.com). Please contact your local Verizon Wireless resource below if you have any additional questions.

Contact Name	Contact Email	Contact Phone
Luis Teves	<a href="mailto:Luis.Teves@VerizonWireless.com">Luis.Teves@VerizonWireless.com</a>	508-479-3197

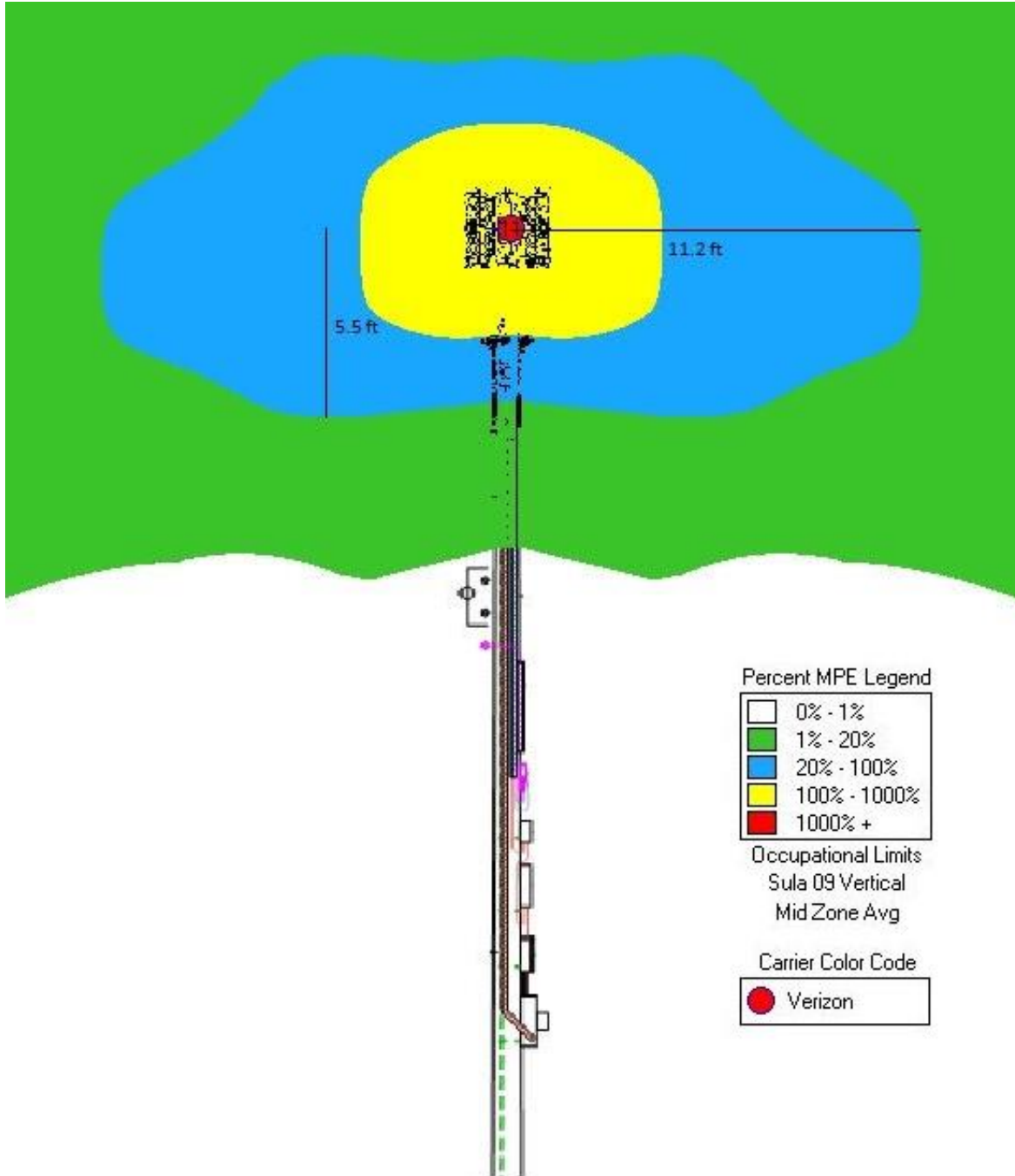
Sincerely,

Michael Creamer  
Sr Manager - RF Design  
Verizon Wireless

## Verizon Wireless (VZW) Radiofrequency (RF) Emissions Map

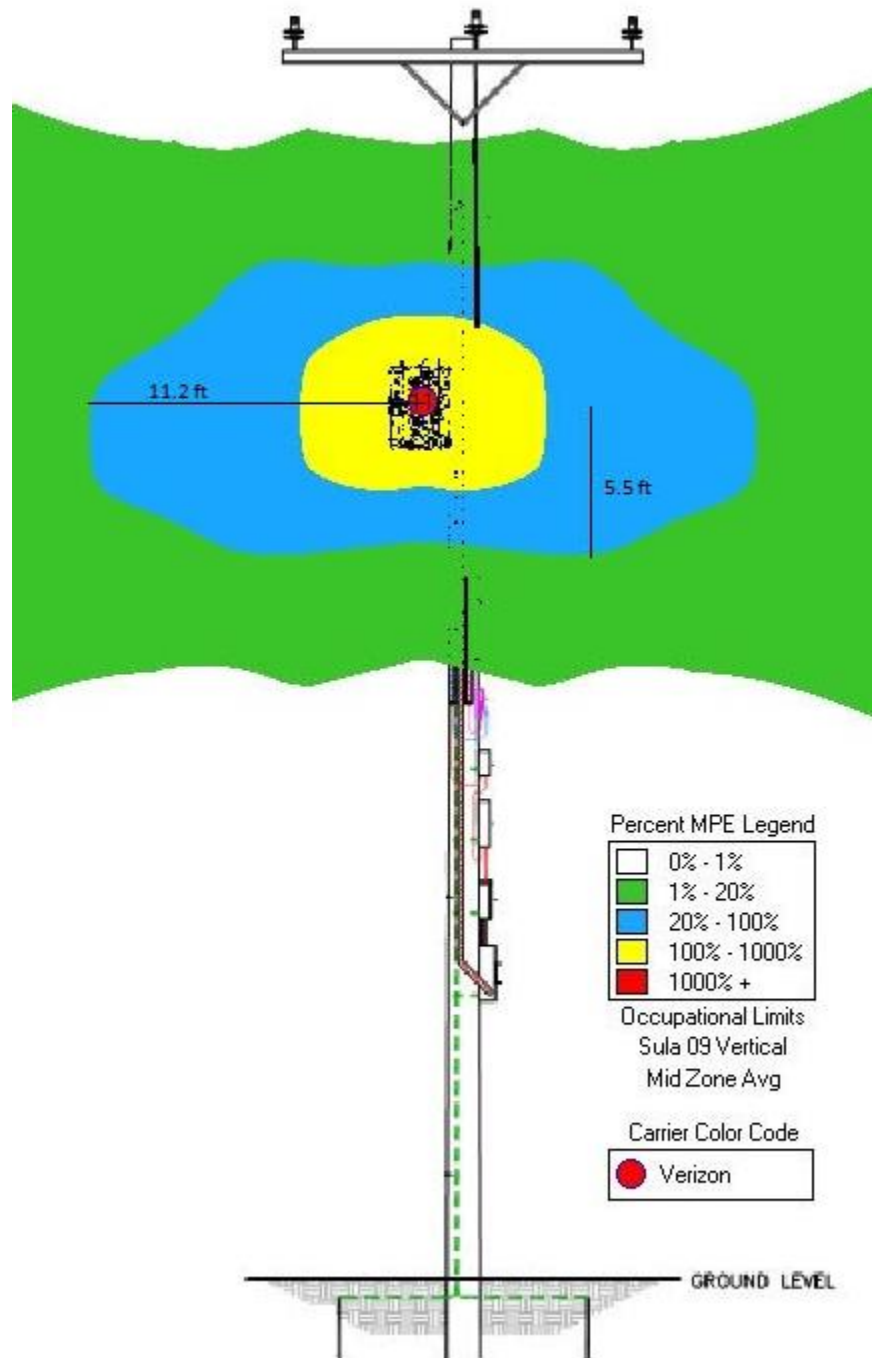
The following site layout represents a current snapshot in time of the predicted Verizon Wireless RF emissions from transmitting antennas on this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.

Top Mount:



Color	% Occupational MPE	Instructions
Green	0 to 20	Safe In Relation to VZW. Contact Other Carriers Before Entering This Area
Blue	20 to 100	
Yellow	Greater Than 100	
Red	Greater Than 1000	

Side Mount:



Color	% Occupational MPE	Instructions
Green	0 to 20	Safe In Relation to VZW. Contact Other Carriers Before Entering This Area
Blue	20 to 100	
Yellow	Greater Than 100	
Red	Greater Than 1000	

## Property Owner Responsibilities (M.E.N.U)

RF exposure safety and the protection of every licensee's infrastructure are very important. Property owners and licensees have a shared responsibility in maintaining a safe and secure RF environment. Property owners can help in this significant endeavor by:

- ⇒ **Maintaining** all necessary wireless licensee contact information.
- ⇒ **Enforcing** restricted access (help maintain a Controlled Environment). **Ensuring** all building/maintenance personnel are aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.
- ⇒ **Notifying** all licensees when any non-carrier requests access to any area with antennas **at least 24 hours in advance**.
- ⇒ **Understanding** that compliance with the FCC and OSHA can be achieved with RF Exposure levels above the applicable limit if the proper signage, physical/indicative barrier, and access restrictions are implemented. Commitment to compliance and willingness to cooperate are essential.



### **For General RF Safety & Awareness Questions**

Verizon Wireless

E-mail: [VZWRFCCompliance@vzw.com](mailto:VZWRFCCompliance@vzw.com)

E-mail Subject: "ATTN: RF Compliance"

### **In The Event That Emergency Maintenance Is Required**

24-Hour Network Operations Center:

**1-800-264-6620**

### **RF Safety & Awareness Training Contacts**

Dtech Communications

([michelle@dtechcom.com](mailto:michelle@dtechcom.com).)

EBI Consulting

[spenta@ebiconsulting.com](mailto:spenta@ebiconsulting.com)

SiteSafe

( [cbagley@sitesafe.com](mailto:cbagley@sitesafe.com) )

Waterford Consultants

[Sbaier-  
anderson@waterfordconsultants.com](mailto:Sbaier-anderson@waterfordconsultants.com)

## Radio Frequency (RF) Emissions

SAFETY  
&  
AWARENESS





## Federal Compliance Requirements

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards incorporate prudent margins of safety. The following represents an overview of the most applicable information:

### Classifications for Exposure Limits

#### Occupational

Persons are "exposed as a consequence of their employment" and are "fully aware of the potential for exposure and can exercise control over their exposure".

#### General Population

Any persons that "may not be made fully aware of the potential for exposure or cannot exercise control over their exposure".

Those in this category do not have RF Safety & Awareness Training.

### Ensuring Compliance With FCC Guidelines

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines.

Wireless Licensees are required by law to implement the following:

- **Restrict access** (lock doors/ladders)
- **Post notification signage on every access point** to increase awareness of the potential for exposure BEFORE one enters an area with antennas.
- **Place additional notification signage and visual indicators** in an area with antennas (beyond an access point) where RF exposure levels may start to exceed the FCC's limits.

## Compliance Materials

### Notification Signage

**(Notice) RF Guidelines** - Informs viewer of the basic safety guidelines for working in an RF Environment.

**Information** - Provides relevant contact information for any questions or requests.



**(Blue) Notice** - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.



**(Yellow) Caution** - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.



**(Red) Warning** - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

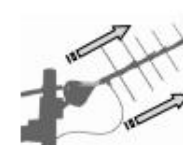
### Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.



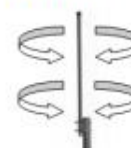
## Antenna Safety

### Antenna Types



**Yagi** - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

**Panel** - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**



**Whip** - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

**Microwave** - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



### When In An Environment With Antennas:

- ⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.
- ⇒ Never touch an antenna. Assume all are active.
- ⇒ Read and obey ALL signs on an access point.
- ⇒ Read and obey ALL signs in the environment with antennas.
- ⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.
- ⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- ⇒ Contact all wireless licensees **at least 24 hours in advance** of scheduled maintenance.



February 3, 2020

City of Newton

1000 Commonwealth Ave

Newton Centre, MA 02459

Re: Authorization to Represent Cellco Partnership

To Whom It May Concern:

Cellco Partnership, a Delaware general partnership, d/b/a Verizon Wireless ("Verizon Wireless") hereby authorizes its attorneys, Robinson & Cole, LLP, to represent Verizon Wireless before the City of Newton City Council and any other Town boards or offices, in applying for any and all necessary approvals for proposed small cell wireless facilities on utility poles in the City of Newton, and to complete and sign any related applications on its behalf.

A copy of this letter shall be regarded as having the same effect as the original.

Sincerely,

A handwritten signature in blue ink, appearing to be "SC", written over a horizontal line. The signature is stylized and loops around the line.

[Sean Conway, Principal Engineer – RE/Regulatory]

Cellco Partnership  
d/b/a Verizon Wireless  
118 Flanders Road  
Westborough, MA 01581

ALICIA R. SELMAN

One Boston Place, 25th floor  
Boston, MA 02108-4404  
Main (617) 557-5900  
Fax (617) 557-5999  
aselman@rc.com  
Direct (617) 557-5923

November 13, 2020

Cassidy Flynn  
Committee Clerk  
Newton City Council  
1000 Commonwealth Avenue  
Newton Centre, MA 02459

Re: Cellco Partnership d/b/a Verizon Wireless - Application Fee for Newton City Council Grant of Location Petitions

Dear Ms. Flynn:

As required by the Newton City Council Grant of Location Procedures and Standards dated August 12, 2019, and Section 17-3 of the Newton City Code, Verizon Wireless encloses a check in the amount of \$500 as the application fee for two Grant of Location Petitions that were filed on November 13, 2020 for proposed wireless communications facilities attachments to an existing utility pole located near 983 Dedham Street and an existing utility pole located near 30 Beethoven Avenue, Newton, MA.

Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to be 'AS', followed by a long horizontal line.

Alicia R. Selman, Esq.  
Attorney for Cellco Partnership d/b/a Verizon Wireless

Enclosure



**Robinson+Cole**

Operating Account

LAW OFFICES

One Boston Place

Suite 2500

Boston, MA 02108-4404

BANK OF AMERICA

51-57/119 CT

Check Number

**303448**

Date:

November 9, 2020

Pay: Five hundred and 00/100\*\*\*\*\* \$ \*\*\*500.00\*\*\*

Void after 180 Days

PAY CITY OF NEWTON  
TO THE 1000 COMMONWEALTH AVE  
ORDER OF: NEWTON, MA 02459

⑈000303448⑈ ⑆011900571⑆ 000000154546⑈





CITY OF NEWTON  
Department of Public Works  
ENGINEERING DIVISION

Memorandum

To: Councilor Alison Leary, Facilities Committee Chair.

From: John Daghlia, Associate City Engineer

Re: #30 Beethoven Avenue Small Cell Antenna

Date: November 25, 2020

CC: Jim McGonagle, Commissioner  
Shawna Sullivan, Chief of Staff  
Lou Taverna, PE City Engineer  
Alan Mandl, Assistant City Solicitor  
Cassidy Flynn, Committee Clerk

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In reference to the above location, the following are my comments for a plan entitled:

***Verizon Wireless***

***Newton, MA SC01***

*Prepared by: Dewberry Engineers Inc.*

*Dated: 4/10/20*

*Received by Engineering: November 16, 2020*

*Executive Summary:*

This applicant is for a small cell antenna to be mounted to pole 22 23 with associated equipment as shown on the plans. The power source will be from the existing utility pole, my only concern is that the detail on sheet C-2 shows a proposed electric meter to be installed on the pole at a height of 5-feet from the base. I would request that this be changed to a minimum of 7-feet from the base of the pole so that it is out of reach of pedestrians and does not interfere with anyone walking near by the pole. If the application is approved the applicant should check with ISD for appropriate electrical permits that maybe required.

*Conditions & Special Provisions:*

1. I recommend that the installation of the small cell & associated equipment be installed during off school hours or during a vacation period so that the installation does not interfere with school bus & student drop off/pick periods.
2. The contractor of record shall contact the Newton Police Department 48 hours in advanced and arrange for Police detail to help residents & commuters navigate around the construction activity.

If you have any questions or concerns, please call me at 617-796-1023.

Solomon Friedberg and Karen Siller  
31 Beethoven Avenue  
Newton, MA 02468-1732  
15 December 2020

Newton City Council

RE: #509-20

Dear Councilors,

We are writing to communicate our strong opposition to the petition, item #509-20, which seeks approval to mount a small cell antenna to pole 22 23 on Beethoven Avenue, directly opposite our house and adjacent to Zervas Elementary School. Small cell antennas transmit data using low frequency electromagnetic radiation. Though the safety of this radiation is still under study, a concerning amount of data suggests that this radiation is correlated with significant increases in health problems, including cancer, neurological issues, and insomnia. The proposed antenna location is directly across from our home, and Beethoven is a narrow street, so the antenna would be under 60 feet from our house. We are deeply concerned about the consequences of this antenna. Due to the proximity to our house, we will experience continual exposure to radiation. In addition, if the antenna is turned on when children are present at Zervas then they will be exposed, and the area is in wide use not only during school but also after school and on weekends, when children and their parents gather and play, and on some evenings for school activities. This will expose a great many Newton residents to radiation whose effects are not yet fully understood, and could put them at increased risk of cancer and other health issues.

We would also like to remind the Council of our experiences with Zervas. The school building that was there when we moved to our house in 2000 was one story and the entrance was far from the street. This building was replaced a few years ago by a much larger two-story structure much closer to Beethoven and directly across from our house, dramatically impacting our environment. We respectfully request that the city not compound the situation by adding a small cell antenna 60 feet from our house.

We note that a small cell antenna could be placed on an existing utility pole near the Newton Cemetery on Beacon Street, not close to any residence, or on Beacon St. adjacent to the patch of forest east of Zervas by building a small pole to hold the transmitter, or on Beethoven Avenue near the Aqueduct trail. These are options that would keep the antenna farther from residences, and farther from children.

We urge you in the strongest possible way to turn down the proposal to place a small cell antenna on utility pole 22 23 and to insist on an alternative location that does not put us, or the children of Zervas, in such close proximity to the antenna.

Sincerely,

Solomon Friedberg, Ph.D.  
 Karen Siller, M.D.  
 31 Beethoven Avenue  
 Waban, MA

P.S. Here are two references concerning low-frequency magnetic fields:

- The IARC (WHO) classifies extremely low-frequency magnetic fields as class 2B, possibly carcinogenic, see <https://monographs.iarc.fr/agents-classified-by-the-iarc>, updated 27 Nov 2020
- The National Toxicology Program (National Institute of Environmental Health Sciences NIH-HHS) August 2020 report on 2G/3G radiofrequency radiation may be found at:  
[https://www.niehs.nih.gov/health/materials/cell\\_phone\\_radiofrequency\\_radiation\\_studies\\_508.pdf](https://www.niehs.nih.gov/health/materials/cell_phone_radiofrequency_radiation_studies_508.pdf)