Thinking outside the sphere

Supplemental Prefiled Testimony on behalf of Steep Rock Association, Inc. for CSC Docket 543

January 26, 2026

Isotrope Wireless is providing this supplemental prefiled testimony responsive to the proceedings, filings, statements and opinions that have been expressed to date in this Docket.

Summary:

Isotrope's typical engagement is on behalf of a permit granting authority, similar to the Connecticut Siting Council. We are most often hired to provide objective, informed wireless industry expert analysis of an application or applications by a wireless carrier and/or a tower company, for a permit. In Massachusetts, where each city or town usually has their own permit granting authority, these boards seek unbiased support with industry concepts, terms and needs.

Isotrope acknowledges the need for improved wireless coverage, we have worked in support of new towers where they are justified and reasonable (including in support of AT&T and Homeland Towers before the Connecticut Siting Council, in Washington CT under Docket 441). Our fundamental mission is to evaluate the technical parameters of a matter and to provide analysis based only on the technical details, facts and viable alternatives.

In Docket 543, the applicant has proposed a new tower in an area of poor Verizon coverage (NE Washington CT, along Routes 202 and 341 and SE Warren CT). Isotrope understands the need for improved wireless coverage in this area. However, in this particular case, the proposed new tower is not the only viable technological alternative for Verizon to provide this additional coverage, and the applicant has not vetted, investigated or apparently even considered all the available options. Remarkably, Verizon has shown a willingness to utilize alternative technologies in other areas in New England, as demonstrated below..

Discussion:

Isotrope has reviewed the area, the coverage plots provided by Verizon, and the technical needs for improved service demonstrated through the plots and the development of roads, homes and businesses in areas shown as impaired on the plots. As a result of this review, Isotrope determined that this area was a reasonable potential area to consider alternative approaches to improve Verizon's coverage along Route 202, Route 341 and to the homes and businesses along roads in this area. Isotrope does not assert that these alternative technologies (small cell or ODAS (Outdoor Distributed Antenna Systems)) are necessarily viable alternatives to all macro cell proposals, and in fact within the past 6 months, Isotrope has advised the Cape Cod Commission, and the Towns of Agawam, Greenfield, Lenox and Acton, Massachusetts that alternative technologies such as small cells or ODAS were not reasonable alternatives to proposed macro cell towers in those communities based on the size, shape and contents of the particular areas requiring improved coverage.

In this case, our professional opinion is that this particular area, the number and sizes of available utility poles along the roads, and this particular profile of need (roads, homes and businesses and their proximity to the roads) indicate that small cells and ODAS warrant consideration as a viable technical alternative to the proposed tower. We have field mapped and measured all the Utility Poles along Route 202 and completed a "proof of concept" design for small cell coverage along Route 202 which we have provided in a prior submission. We did not map the utility poles along Route 341 but note that there are overhead lines and supporting poles along this roadway as well.

The applicant has provided no rationale for its refusal to consider this area for an alternative coverage design. From a technical perspective, these claims are specious, as demonstrated below.

1. In its "Responses to Council Interrogatories (First Set), Interrogatory No. 7, pp. 5-7, the applicant's response regarding small cells as a viable alternative to a macro cell tower is word-for-word identical to its responses in other, prior applications before the Connecticut Siting Council. The applicant testified that Verizon has no idea how many utility poles exist along Route 202, where they are and what their heights are, nor have they done any technical analysis of this area and its viability for coverage by small cells. It is impossible to even begin a conclusive analysis without knowledge of the locations and heights of the utility poles in the area.

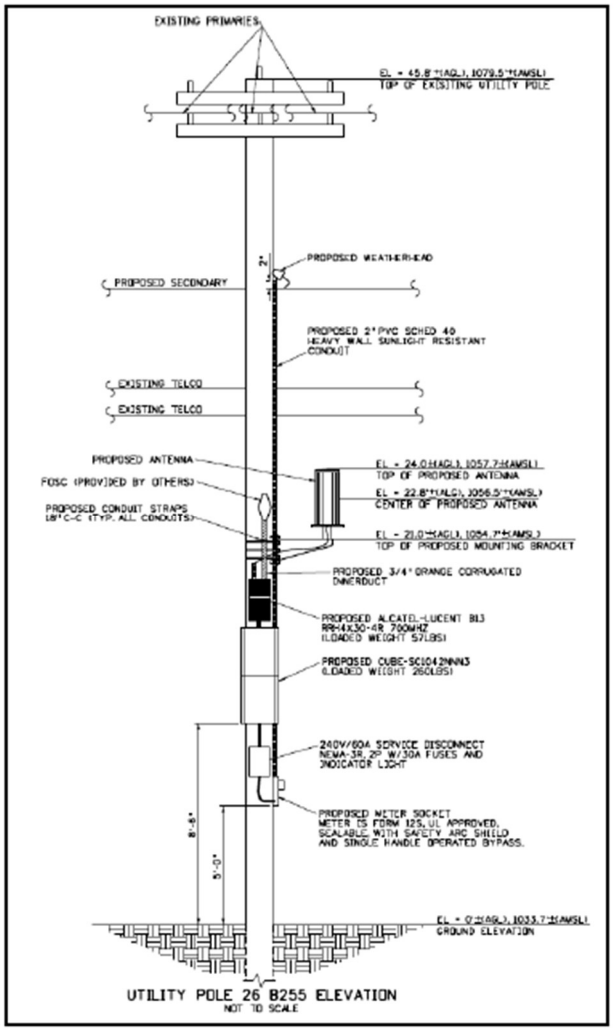
2. Verizon has demonstrated a willingness to consider alternatives to macro cell towers in other comparable locations. It is currently proposing 30 small cells to provide coverage in Chilmark (Exhibit 1, below) and Aquinnah on Marthas Vineyard, where they are attached to an American Tower-owned ODAS. Both of these alternatives are being considered because the Towns of Chilmark and Aquinnah are unwilling to permit a macro cell tower and therefore, coverage from the macro cell network is limited on the west end of Marthas

Vineyard and necessary coverage in the area is being provided (including for Verizon) by the American Tower ODAS. Verizon seeks more control over the growth and operations of this alternative coverage solution so Verizon has proposed to add 30 small cells and to disconnect from the ODAS. Chilmark and Aquinnah are similar to the area in Northern Litchfield County which is the subject of this application. Marthas Vineyard has a large seasonal population increase in the summer, but even seasonal population is limited by the number of housing units so we have included that information in the comparison below. The assumption for max population is four persons per housing units.

Town	Land area (sqmi)	Population (Census)	# housing units	max pops	# small cell proposed
Chilmark	19	1200	1577	6308	
Aquinnah	5	439	520	2080	
MV total	24	1639	2097	8388	30
small cell per	0.8	55	70	280	
Washington/Warren	6.6	440	220	880	9
small cell per	0.7	49	24	98	

Verizon is proposing to cover 24 square miles of rural area on Marthas Vineyard with small cells alone, as shown in their filing. Small cells could be effectively utilized to cover 6.6 square miles in a similarly rural area (with similar morphology and topology) in Litchfield County. From a technical perspective, our proof of concept design demonstrates that a small cell design is feasible as an alternative to the proposed tower in Docket 543. On Marthas Vineyard, Verizon is proposing small cells to provide improved coverage for their customers. We have also provided examples of areas in Brewster, MA and Becket MA (in our interrogatory responses) and Lincoln, MA (below) where Verizon has used small cells to provide coverage to rural roads and homes .

3. Ms Glidden has claimed several times that Verizon, when looking for utility poles (if they were to proceed to that stage of consideration) will avoid poles with primary and secondary lines. The Chilmark, MA proposal, as shown on Verizon's plans, demonstrates that every utility pole that Verizon is proposing to use in that Town has primary lines. Rather than eliminating poles with primary lines from consideration, Verizon has instead mapped an exclusion zone with a six-foot radius from primary power lines and a four-foot radius from secondary power lines on the plans for each pole. Additionally, below is a Verizon plan sheet for the prior referenced small cell in Becket, MA showing primary power lines at the top of the pole and proposed secondary power lines below.

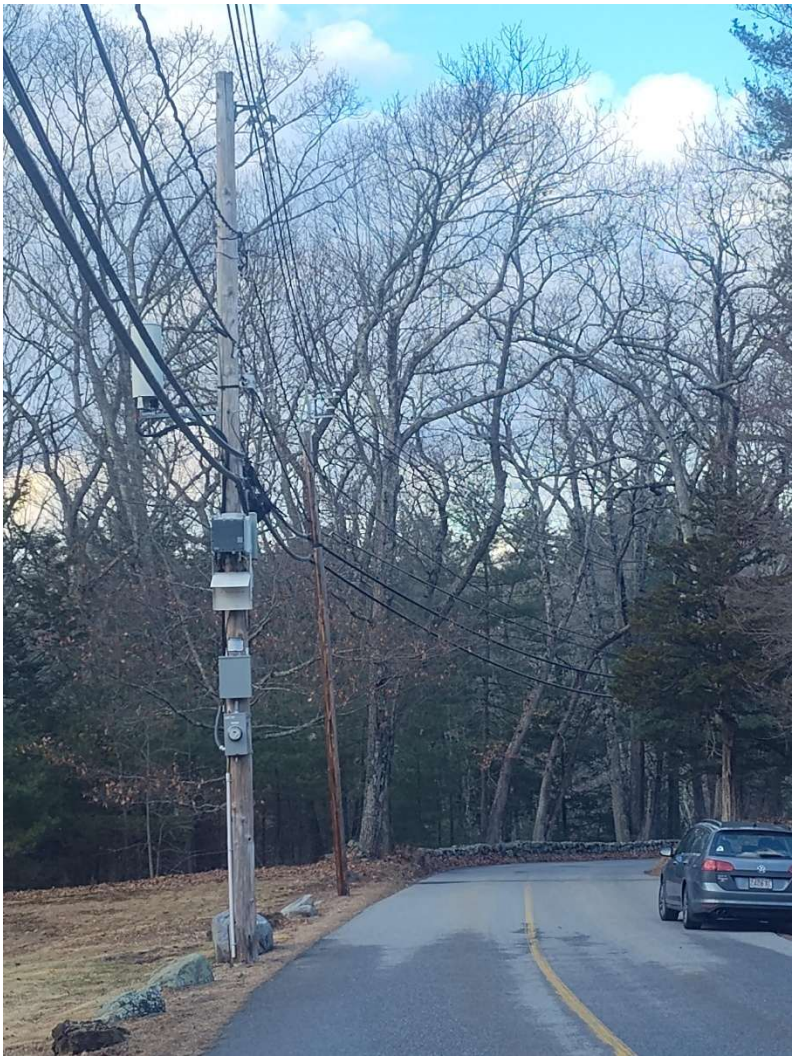


4. An additional factor that has been discussed is the cost or economic viability of a small cell solution for this area. Verizon's experts have testified that in their experience, the cost for a single small cell ranges from $80,000 to $85,000. Isotrope believes this estimate to be unreasonably high for the following reasons:
    a. During the period from 2020 to 2023, the writer of this report (Michael Lawton) was Market General Manager for the DISH Wireless (Boost Mobile) network, responsible for deployment of the New England market. This deployment included areas of small cell deployment in CT and in MA. The budget for each small cell (supporting dual-band deployment at 600 and 1900 MHz) was $25,000 per site and many were under budget.

b. In Lincoln, MA, the Town bylaws require the carriers to provide a cost estimate for each proposed small cell. Verizon and AT&T have both built small cells in Lincoln, and below are 3 photos taken of a typical Verizon small cell in Lincoln.







As part of their filings for small cells in Lincoln, carriers are required to provide cost information for their proposed installation. Verizon has been unwilling to provide this information, but AT&T has provided their cost information and they estimate $20,000-$25,000 for a substantially similar installation to the Verizon installations in the photographs above. AT&T proposed two remote radio heads (more costly) where Verizon has only installed one at this rural location in Lincoln, but they have proposed two remote radio heads on Martha's Vineyard and installed two remote radio heads on poles on Cape Cod which we have documented with photographs.

c. In Verizon's cost estimate for this proposed macrocell, they list costs of:

$115,000 for Radio Equipment

$75,000 for antennas and coax (presumably, this now includes fronthaul fiber since coax is limited to short (<6') jumpers between remote radio heads and antennas)

And materials included in that cost of:

9 antennas

6 remote radio heads

2 strands of fiber

All the Verizon small cells (other than those near Trinity College which are a different configuration with three sectors, not proposed or necessary for this location) that we have photographed include one or two remote radio heads, one antenna, a meter and a mounting bracket, along with a diplexer, a short run of coax jumpers and a stand-off from the pole. If Verizon can source six remote radio heads and a baseband unit (ground cabinet) for a tower for $115,000, then the cost of one should be less than $20,000. A small cell antenna, even a complex multi-band antenna, costs less than than $6000 from a standard supplier such as Galtronics. The remaining materials, labor to install and obtain required permits, police detail if required, cannot cost $60,000, which would be necessary to reach the $85,000 that Verizon has quoted.

5. Now that Verizon's purchase of Frontier has closed, the Fiber running on the poles along Route 202 belongs to Verizon, making attachment for small cells and fiber backhaul even easier.
6. Verizon's plots demonstrate several reasons why this area could reasonably be addressed with small cells.
    a. The incremental coverage from the proposed site is not circular, it is oblong, along Route 202 (4.7 miles) and includes a small section of Route 314 (1.4 miles) and an even smaller section of Route 62 (0.2 miles).

    b. The large majority of existing homes that would be provided "in-building coverage" by the proposed site according to Verizon's maps at 700 and 850 MHz are within ¼ mile of Route 202 and could therefore be provided the same or better service by small cells installed along Route 202 and operating on those bands.

    c. Were this a circular "gap" of 4.7 mile diameter with homes and roads throughout the area, many more small cells would be needed and this would not likely be a reasonable location for small cell coverage to replace a macro site.

d. Vehicular coverage is only pertinent upon existing roads and there are limited roads in this area, all of which have existing utility poles either adjacent to them, or quite nearby.

e. Verizon has not referenced or shown plots to demonstrate outdoor coverage, either incrementally or to demonstrate a gap, so we must assume that outdoor coverage improvement for users outside developed roadways or homes is not driving Verizon's "need" for this site. Therefore, all the undeveloped areas that would receive coverage to an "outdoor" level from the proposed site may already have coverage, or they may not – we can only review what Verizon has shown on their plots.

Finally, Isotrope has identified two additional issues that should be addressed by the applicant:

1. Verizon's filed plots do not include their coverage from 10 Blackville Road, Washington Depot. Verizon installed their antennas on this site in December, 2025 and it will certainly provide coverage adjacent to and possibly within the "area of need" and should be shown on the plots for Docket 543. It is impossible to know if this new coverage would affect this case without review of a plot including all Verizon facilities in the area.

2. The proposed tower site leaves a coverage gap of over a mile on Route 341 on all bands (according to Verizon's plots), starting 1.4 miles from the Route 202 intersection. There are utility poles along Route 341 through this gap, however they are not as tall nor is the road clearing as wide as Route 202. Several small cells along Route 341 could fill this gap, providing better coverage than the proposed macro cell tower.

Michael Lawton

Michael Lawton

Exhibit 1

Robinson+Cole

MICHAEL S. GIAIMO

One Boston Place, 25th floor
Boston, MA 02108-4404
Main (617) 557-5900
Fax (617) 557-5999
mgiaimo@rc.com
Direct (617) 557-5959

November 11, 2025

Town of Chilmark Select Board
Chilmark Town Hall
401 Middle Road, Beetlebung Corners
P.O. Box 119
Chilmark, MA 02535-0119

Re: Application for Proposed Verizon Wireless Small Cell Facilities on Utility Poles in Town of Chilmark Right of Way

Dear Members of the Town of Chilmark Select Board:

To improve wireless service on its network, Cellco Partnership d/b/a Verizon Wireless proposes to install "small cell" wireless facilities on utility poles in Chilmark and Aquinnah (the "Proposal"). Fourteen of those facilities would be installed on existing utility poles located within the rights-of-way of Town of Chilmark roads. The proposal does not require the installation of any new utility poles.

Verizon Wireless accordingly is submitting the enclosed application seeking approval from the Chilmark Select Board to occupy the Town right-of-way for these installations at the following locations, as depicted and described in the plans and other application materials enclosed for each location:

- Chilmark SC 01, Middle Road, near 5 Guerin Lane, Chilmark, MA
- Chilmark SC 06, North Road near 0 Cape Higgon Way, Chilmark, MA
- Chilmark SC 08, North Road near 2 Shalers Way, Chilmark, MA
- Chilmark SC 09, near 349 Middle Road, Chilmark, MA
- Chilmark SC 10, near 395 North Road, Chilmark, MA
- Chilmark SC 11, near 215 North Road, Chilmark, MA
- Chilmark SC 13, Middle Road near 8 Daisy Lane, Chilmark, MA
- Chilmark SC 16, Middle Road near Cencelle (utility pole #10/37), Chilmark, MA
- Chilmark SC 22, near 61 North Road, Chilmark, MA
- Chilmark SC 24, near 56 Menemsha Crossroad, Chilmark, MA
- Chilmark SC 25, near 55 Tabor House Road, Chilmark, MA
- Chilmark SC 26, Middle Road (utility pole #10/64), Chilmark, MA

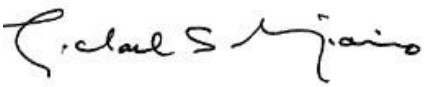
- Chilmark SC 27, near 51 Basin Road, Chilmark, MA
- Chilmark SC 28, North Road near 5 North Slope Lane, Chilmark, MA

As further described in the application narrative and as will be addressed at the hearing, the purpose of these proposed facilities is to improve service on the Verizon Wireless network in Chilmark. When constructed, these facilities will improve upon and replace the service Verizon Wireless currently provides via the distributed antenna system.

Regulations of the Federal Communications Commission at 47 USC §1.6003 establish timely action (aka "shot clock") requirements for final municipal action on wireless siting applications. The shot clock for the review of an application, such as this one, to collocate "small wireless facilities" on existing structures, is 60 days from the date of filing.

Kindly schedule these petitions for a hearing at your earliest opportunity.

Sincerely,



Michael S. Giaimo

copy: Sean Conway, Verizon Wireless

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1. Project Narrative

Robinson+Cole

MEMORANDUM

To: Town of Chilmark Select Board

Copy: Timothy R. Carroll, Chilmark Town Administrator

From: Michael S. Giaimo, Attorney for Cellco Partnership d/b/a/ Verizon Wireless

Date: November 11, 2025

Subject: Proposed Verizon Wireless Small Cell Installations on Utility Poles

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Verizon Wireless proposes to install a network of thirty "small cell" wireless facilities on utility poles in Chilmark and Aquinnah in order to improve the service provided on its network in those two towns. Twenty-three of these small cells are proposed on utility poles in Chilmark, most of them within the public rights-of-way on North Road, Middle Road, South Road, and State Road. Nine of the proposed small cells are on utility poles within Massachusetts Department of Transportation rights-of-way, and Verizon Wireless will pursue permitting of those installations through that state agency. The other 14 proposed facilities in Chilmark are on existing utility poles in the Town rights-of-way, and Verizon Wireless is seeking the approval of the Select Board for these installations.

Verizon is licensed by the Federal Communications Commission ("FCC") to provide wireless services using its licensed spectrum in the market area that includes the Town of Chilmark. The proposed small cell facilities are "personal wireless service facilities" within the meaning of the Federal Telecommunications Act. The proposed facilities are "small wireless facilities" as defined under the Federal Communications Commission regulations at 47 CFR §1.6002(l). Verizon Wireless is a wireless provider with a right to attach to utility poles pursuant to M.G.L. c. 166 §25A. It has licenses from the joint pole owners, Eversource and Verizon New England, Inc. for these proposed installations. The proposed facilities are similar in function and appearance to the small cell wireless facilities that Verizon has employed on utility poles in communities throughout Massachusetts for the similar purposes of improving its service and filling coverage gaps without requiring the installation of a new monopole tower or other "macrocell" facility.

Description of the Small Cell Facilities

Each small cell will include a single cylindrical antenna that is 14 inches in diameter and 35.4 inches tall. For most of the facilities, the antenna will be mounted to the side of the pole below the secondary power. On a few poles, the antenna will be mounted at the top of the pole above the primary power. There will be associated radio and electric power equipment, including remote radio heads, a diplexer, an electric meter and other electrical equipment attached to the side of the pole. Power and fiber to operate the small cell will be obtained by connecting to service cables which in most cases are already attached to the pole. A structural analysis has been conducted for each proposed installation that confirms the ability of the pole to accommodate the additional equipment and cables.

The small cells do not require cooling fans and do not make any noise. They transmit low power signals and comply with applicable safety standards for radiofrequency emissions. The transmissions use radio frequencies that are licensed to Verizon Wireless and will not interfere with the signals from the existing distributed antenna system or with radio, television, public safety or other transmissions that employ different frequencies. The small cells require no ground equipment, and, unlike the DAS, do not connect to a central "hub" or involve any other use of a building or land outside the right of way.

Please note that each of the facilities that are the subject of the application will be installed on an existing pole. No new poles are being proposed in Town of Chilmark rights-of-way.

Project Purpose

The purpose of this small cell project is to improve service on the Verizon Wireless network for its customers who live or work in, visit or travel through Chilmark. The availability of reliable wireless communications service for both voice and data communications benefits area residents, businesses and people travelling on the area road network, all of whom rely on these services for a wide variety of purposes. Reliable wireless service enhances community safety because it allows the public to quickly report emergencies and call for help and first responders and other public safety officials rely on it in responding to emergencies, natural disasters, and similar circumstances. People rely on wireless data services for countless purposes in their jobs and their personal lives, including navigation on the public roads, contacting ride-share providers, staying in touch with children and other family members, and various other applications.

The addition of the proposed small cells will give Verizon the ability to provide better service than it can through the existing distributed antenna system ("DAS"):

- The small cells will provide Verizon Wireless with increased capacity, which will result in better service for users of its network, particularly during times of high demand. The small cells will use Verizon Wireless' licensed spectrum and will be for its exclusive use, unlike the neutral-host DAS system, which requires carriers to share the available capacity.

- Verizon Wireless can tailor its small cells to its own network needs, optimizing for coverage, capacity, and performance, unlike the DAS, which is controlled by its operator.

- Verizon Wireless maintains full control over the small cell infrastructure, so it will be able to add spectrum and upgrade these small cells efficiently as new technology becomes available and respond to maintenance needs directly, which it cannot do through the DAS.

- The Verizon Wireless small cells will each function independently and have direct backhaul, allowing faster data speeds and lower latency compared to DAS.

For all these reasons, Verizon Wireless has determined that in order to provide its customers with the latest technology and higher quality service, it needs to install and operate its own small cell facilities in lieu of its continued participation in the DAS.

Application materials are enclosed consisting of the following:

- A set of plans for each of the proposed facilities.
- A structural analysis for each of the proposed facilities.
- Licenses from the pole owners (Eversource and Verizon) for each of the proposed facilities.
- A letter of authorization from Eversource.
- A certificate of insurance naming the Town of Chilmark as an additional insured.
- FCC licenses authorizing Verizon Wireless to provide wireless service on specified frequencies in the geographic area that includes the Town of Chilmark.

For all of the foregoing reasons and based on the information that is provided in the application and will be presented at the hearing, Verizon Wireless respectfully requests that the Town approve its use of the existing utility poles in the Town rights of way at the 14 locations that are the subject of this application.

2. Eversource letter of authorization

September 4, 2024

Attn: Town of Chilmark, MA

To Whom It May Concern:

NSTAR Electric d/b/a Eversource Energy (Eversource), as owner of certain utility poles in public rights-of-way in Chilmark, MA, is aware and authorizes Verizon Wireless to complete the process of permitting for the installation of necessary telecommunications equipment and corresponding aerial fiber optic cable on Eversource-owned utility poles at the following locations.

CHILMARK_SC01_MA - SPSC	5 Guerin Lane Pole on Middle Road Pole # 10/50 1/2 Pole # 10/50 1/2
CHILMARK_SC03_MA - SPSC	2 Squibnocket Road Pole on State Road Pole No. 4/65
CHILMARK_SC05_MA - SPSC	0 Signal Hill Road Pole on State Road 4/100 1/2
CHILMARK_SC06_MA - SPSC	0 Cape Higgon Way Pole on North Road Pole No. 5/47
CHILMARK_SC08_MA - SPSC	2 Shalers Way Pole on North Road
CHILMARK_SC09_MA - SPSC	349 Middle Road Pole No. 5/83
CHILMARK_SC10_MA - SPSC	395 North Road Pole No. 5/189
CHILMARK_SC11_MA - SPSC	215 North Road Pole No. 5/67
CHILMARK_SC12_MA - SPSC	150 South Road Pole No. 1/61
CHILMARK_SC13_MA - SPSC	8 Daisy Lane Pole on Middle Road Pole No. 10/77
CHILMARK_SC14_MA - SPSC	1 West Meadow pole on State Road Pole No. 4/18
CHILMARK_SC15_MA - SPSC	5 Chappaquoit Road pole on South Road Pole No. 1/118
CHILMARK_SC16_MA - SPSC	0 Cencelle Pole on Middle Road Pole No. 10/37
CHILMARK_SC17_MA - SPSC	521 South Road Pole No. 3/21S
CHILMARK_SC18_MA - SPSC	124 State Road Pole No. 4/40
CHILMARK_SC21_MA - SPSC	436 South Road Pole No. 1/157 Pole No. 1/157
CHILMARK_SC22_MA - SPSC	61 North Road Pole No. 5/19
CHILMARK_SC24_MA - SPSC	58 Menemsha Crossroad Pole No. 3/36
CHILMARK_SC25_MA - SPSC	55 Tabor house Road Pole No. 136/16
CHILMARK_SC26_MA - SPSC	0 Middle Road Pole No. 10/64
CHILMARK_SC27_MA - SPSC	51 Basin Road Pole No. 6/8
CHILMARK_SC28_MA - SPSC	5 North Slope Lane Pole on North Road Pole No. 5/176
CHILMARK_SC29_MA - SPSC	8 Goldenrod Way Pole on South Road Pole No. 2/96S

Accordingly, Eversource hereby submits its authorization for Verizon Wireless to install its antennae and appurtenant equipment and aerial fiber routes to Eversource poles at the above locations. Please be advised that the undersigned has entered into a master lease agreement authorizing Verizon Wireless to install, attach, maintain, repair, upgrade and use wireless communications equipment and appurtenances on certain utility poles. The installations on Eversource utility poles will be subject to the underlying terms and conditions of the aforementioned agreement by and between Eversource and Verizon Wireless, as the same may be in effect from time to time.

Sincerely,

Richard A Comeau

Richard A Comeau
Manager – Distribution Engineering, Single Pole Administration
NSTAR Electric d/b/a Eversource Energy
247 Station Drive, SE280
Westwood, MA 02090

3. FCC licenses for Cellco Partnership

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

Official Copy

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
KNKN826	0009139090
Radio Service CL - Cellular	
Market Numer CMA471	**Channel Block** B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name
Massachusetts 2 - Barnstable

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
09-01-2020	09-01-2020	10-01-2030		09-01-2020

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	41-41-54.4 N	070-05-52.1 W	15.2	46.3	

Address: (Harwich site) 7 Queen Anne Road
City: HARWICH **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.900	38.600	45.900	55.400	57.500	57.000	46.700	51.800
Transmitting ERP (watts)	59.230	290.100	100.590	4.490	0.820	0.820	0.820	3.490

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.900	38.600	45.900	55.400	57.500	57.000	46.700	51.800
Transmitting ERP (watts)	0.680	0.680	7.630	98.300	246.920	98.300	7.630	0.680

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.900	38.600	45.900	55.400	57.500	57.000	46.700	51.800
Transmitting ERP (watts)	49.270	2.150	0.680	0.680	1.080	19.170	163.140	220.070

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

FCC 601-C
March 2018

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN826 **File Number:** 0009139090 **Print Date:** 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	41-41-01.4 N	070-21-34.1 W	48.8	50.6	1014687

Address: CLAY HILL OFF ROUTE 6

City: BARNSTABLE **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.200	97.000	82.200	88.100	88.700	88.800	60.600	91.000
Transmitting ERP (watts)	25.240	30.340	7.800	0.860	0.100	0.100	0.710	5.040

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.200	97.000	82.200	88.100	88.700	88.800	60.600	91.000
Transmitting ERP (watts)	0.100	1.390	10.050	32.510	21.480	3.910	0.310	0.100

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.200	97.000	82.200	88.100	88.700	88.800	60.600	91.000
Transmitting ERP (watts)	1.790	0.150	0.100	0.260	2.360	16.670	35.650	13.250

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	41-36-52.6 N	070-36-31.1 W	42.4	59.7	

Address: THOMAS LANDERS ROAD

City: FALMOUTH **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.600	57.500	82.400	93.100	93.300	96.000	96.200	95.500
Transmitting ERP (watts)	75.860	89.130	23.440	2.290	0.200	0.200	1.510	15.140

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.600	57.500	82.400	93.100	93.300	96.000	96.200	95.500
Transmitting ERP (watts)	0.120	1.240	12.080	37.330	26.430	4.490	0.420	0.100

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.600	57.500	82.400	93.100	93.300	96.000	96.200	95.500
Transmitting ERP (watts)	5.500	0.500	0.200	0.780	6.760	51.290	100.000	42.660

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN826 **File Number:** 0009139090 **Print Date:** 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	42-01-19.0 N	070-04-30.0 W	31.7	54.9	

Address: 344 Route 6 North

City: TRURO **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.100	39.600	39.200	50.900	67.800	71.300	71.100	68.900
Transmitting ERP (watts)	74.130	89.130	22.910	1.290	0.200	0.200	0.650	13.180

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.100	39.600	39.200	50.900	67.800	71.300	71.100	68.900
Transmitting ERP (watts)	0.200	1.820	28.180	93.330	67.610	10.230	0.400	0.200

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.100	39.600	39.200	50.900	67.800	71.300	71.100	68.900
Transmitting ERP (watts)	3.890	0.200	0.200	0.230	5.130	50.120	100.000	42.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	41-17-06.0 N	070-08-37.0 W	11.0	68.0	1006317

Address: Eel Point Road

City: NANTUCKET **County:** NANTUCKET **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.100	63.100	50.600	56.100	58.300	56.200	59.200	63.100
Transmitting ERP (watts)	0.200	2.000	33.880	95.500	67.610	10.720	0.200	0.200

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.100	63.100	50.600	56.100	58.300	56.200	59.200	63.100
Transmitting ERP (watts)	3.890	0.200	0.200	0.200	6.760	57.540	100.000	44.670

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.100	63.100	50.600	56.100	58.300	56.200	59.200	63.100
Transmitting ERP (watts)	81.280	89.130	24.550	1.120	0.200	0.200	0.420	16.600

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN826 **File Number:** 0009139090 **Print Date:** 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	41-46-37.4 N	069-59-51.4 W	30.2	60.4	

Address: (Orleans) Pine Road

City: ORLEANS **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	70.500	62.500	66.100	73.900	67.400	62.300	74.400	75.900
Transmitting ERP (watts)	154.850	178.510	41.520	1.840	0.580	0.580	1.450	23.440

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	70.500	62.500	66.100	73.900	67.400	62.300	74.400	75.900
Transmitting ERP (watts)	0.700	1.120	16.870	165.120	191.880	20.920	0.700	0.700

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	70.500	62.500	66.100	73.900	67.400	62.300	74.400	75.900
Transmitting ERP (watts)	0.700	0.700	0.700	0.840	14.280	163.980	192.660	17.980

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	41-25-26.0 N	070-40-19.0 W	75.3	24.6	1008408

Address: VINEYARD HAVEN RD.

City: WEST TISBURY **County:** DUKES **State:** MA **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.100	85.900	74.600	81.300	88.400	65.700	94.200	92.200
Transmitting ERP (watts)	0.280	14.130	75.860	93.330	27.540	1.480	0.200	0.200

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.100	85.900	74.600	81.300	88.400	65.700	94.200	92.200
Transmitting ERP (watts)	0.270	0.200	0.200	1.550	29.510	93.330	74.130	12.590

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.100	85.900	74.600	81.300	88.400	65.700	94.200	92.200
Transmitting ERP (watts)	100.000	48.980	4.790	0.200	0.200	0.200	5.250	52.480

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN826 **File Number:** 0009139090 **Print Date:** 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	41-23-37.0 N	070-32-13.0 W	11.0	55.8	1006319

Address: PENNYWISE PATH
City: EDGARTOWN **County:** DUKES **State:** MA **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	49.100	49.100	44.700	45.200	47.400	45.700	27.900	39.600
Transmitting ERP (watts)	330.250	46.650	1.120	0.910	0.910	1.170	25.640	301.190

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	49.100	49.100	44.700	45.200	47.400	45.700	27.900	39.600
Transmitting ERP (watts)	3.150	67.430	415.760	203.630	16.940	0.910	0.910	0.910

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	49.100	49.100	44.700	45.200	47.400	45.700	27.900	39.600
Transmitting ERP (watts)	0.910	0.910	0.910	8.890	158.070	425.450	104.440	4.560

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	41-46-31.4 N	070-34-14.1 W	39.6	60.4	

Address: BOURNEDALE ROAD (.125 MILES NE)
City: BOURNEDALE **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.400	83.800	86.700	34.600	41.500	85.900	77.400	55.000
Transmitting ERP (watts)	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	41-41-38.4 N	069-58-31.1 W	35.1	36.6	

Address: 1.0 MILE NW OF THE INTERSEC. OF RTE. 28 AND MAIN STREET
City: CHATHAM **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.500	69.600	69.600	64.800	69.500	68.900	57.100	54.300
Transmitting ERP (watts)	75.860	89.130	23.440	2.290	0.200	0.200	1.510	15.140

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.500	69.600	69.600	64.800	69.500	68.900	57.100	54.300
Transmitting ERP (watts)	0.300	3.090	30.200	93.330	66.070	11.220	1.050	0.200

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN826 **File Number:** 0009139090 **Print Date:** 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	41-41-38.4 N	069-58-31.1 W	35.1	36.6	

Address: 1.0 MILE NW OF THE INTERSEC. OF RTE. 28 AND MAIN STREET

City: CHATHAM **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	63.500	69.600	69.600	64.800	69.000	68.900	57.100	54.300
Transmitting ERP (watts)	5.500	0.500	0.200	0.780	6.760	51.290	100.000	42.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	41-43-48.4 N	070-29-26.1 W	68.3	40.8	

Address: RTE. 130

City: SANDWICH **County:** BARNSTABLE **State:** MA **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.400	106.700	100.400	84.200	86.900	68.600	83.600	77.200
Transmitting ERP (watts)	33.270	36.480	12.940	1.520	0.100	0.100	0.980	8.750

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.400	106.700	100.400	84.200	86.900	68.600	83.600	77.200
Transmitting ERP (watts)	0.280	5.500	39.810	95.500	75.860	16.980	1.740	0.200

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.400	106.700	100.400	84.200	86.900	68.600	83.600	77.200
Transmitting ERP (watts)	8.510	0.720	0.200	0.950	11.220	61.660	100.000	53.700

Control Points:

Control Pt. No. 1

Address: 500 West Dove Road

City: Southlake **County:** TARRANT **State:** TX **Telephone Number:** (800)264-6620

Waivers/Conditions:

NONE

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WPOJ760	0008586728
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
05-30-2019	05-30-2019	06-30-2029	05-31-2019

Market Number	Channel Block	Sub-Market Designator
BTA201	C	3

Market Name
Hyannis, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-30-2004	06-30-2009		

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Spectrum Lease associated with this license. See Spectrum Leasing Arrangement Letter dated 07/27/2004 and File No. 0001765259.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WPOJ760 **File Number:** 0008586728 **Print Date:** 05-31-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQCN362	0008586736
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
05-30-2019	05-30-2019	06-30-2029	05-31-2019

Market Number	Channel Block	Sub-Market Designator
BTA201	C	2

Market Name
Hyannis, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-30-2004	06-30-2009		

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Spectrum Lease associated with this license. See Spectrum Leasing Arrangement Letter dated 07/27/2004 and File No. 0001765259.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQCN362 **File Number:** 0008586736 **Print Date:** 05-31-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
KNLH253	0007716971
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-02-2017	06-02-2017	06-27-2027	06-06-2017

Market Number	Channel Block	Sub-Market Designator
BTA201	E	0

Market Name
Hyannis, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-27-2002			

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNLH253 **File Number:** 0007716971 **Print Date:** 06-06-2017

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
KNLG356	0007716985
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-02-2017	06-02-2017	06-27-2027	06-03-2017

Market Number	Channel Block	Sub-Market Designator
BTA201	F	0

Market Name
Hyannis, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-27-2002			

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNLG356 **File Number:** 0007716985 **Print Date:** 06-03-2017

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGA900	0009773233
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-11-2022	01-11-2022	11-29-2036	01-12-2022

Market Number	Channel Block	Sub-Market Designator
BEA003	B	1

Market Name
Boston-Worcester-Lawrence-Lowe

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA900 **File Number:** 0009773233 **Print Date:** 01-12-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGB350	0009785449
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-31-2022	01-31-2022	11-29-2036	02-01-2022

Market Number	Channel Block	Sub-Market Designator
CMA471	A	0

Market Name
Massachusetts 2 - Barnstable

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

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The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal lawor regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGB350 **File Number:** 0009785449 **Print Date:** 02-01-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE627	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A1	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE627 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE628	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A2	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE628 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE629	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A3	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:
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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE629 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE627	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A1	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE627 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE628	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A2	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE628 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE629	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A3	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE629 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE630	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A4	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE630 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE631	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	A5	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

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August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE631 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE632	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	B1	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE632 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE633	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	B2	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE633 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRNE634	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA007	B3	0

Market Name
Boston, MA

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Official Copy

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE634 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Official Copy

4. Insurance certificate naming Town of Chilmark as additional insured

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
07/02/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Aon Risk Services Northeast, Inc.
New York NY Office
One Liberty Plaza
165 Broadway, Suite 3201
New York NY 10006 USA

CONTACT NAME:
PHONE (A/C. No. Ext): (866) 283-7122 **FAX (A/C. No.):** (800) 363-0105
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	LM Insurance Corporation	33600
INSURER B:	Liberty Insurance Corporation	42404
INSURER C:	Liberty Mutual Fire Ins Co	23035
INSURER D:		
INSURER E:		
INSURER F:		

INSURED
Cellco Partnership dba Verizon Wireless
1095 Avenue of the Americas
New York NY 10036 USA

COVERAGES **CERTIFICATE NUMBER:** 570114189631 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X COMMERCIAL GENERAL LIABILITY			TB2691550588145	06/30/2025	06/30/2026	EACH OCCURRENCE	$4,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$4,000,000
	X XCU Coverage is Included						MED EXP (Any one person)	$10,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	$4,000,000
	X POLICY PRO-JECT LOC						GENERAL AGGREGATE	$4,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	$4,000,000
C	AUTOMOBILE LIABILITY			AS2-691-550588-125 AOS	06/30/2025	06/30/2026	COMBINED SINGLE LIMIT (Ea accident)	$3,000,000
C	X ANY AUTO			AS2-691-550588-135 NH - Primary	06/30/2025	06/30/2026	BODILY INJURY (Per person)	
C	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY			TL2-691-550588-185 NH - Excess	06/30/2025	06/30/2026	PROPERTY DAMAGE (Per accident)	
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	
	DED RETENTION							
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WA569D550588095 AOS	06/30/2025	06/30/2026	X PER STATUTE OTH-ER	
A	ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WC5691550588085 WI, MN	06/30/2025	06/30/2026	E.L. EACH ACCIDENT	$1,000,000
							E.L. DISEASE-EA EMPLOYEE	$1,000,000
							E.L. DISEASE-POLICY LIMIT	$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Verizon Wireless Small Cell locations in Chilmark, MA. The Town of Chilmark MA is included as an Additional Insured with respect to the General Liability policy.

CERTIFICATE HOLDER

The Town of Chilmark MA
401 Middle Road
Chilmark MA 02535 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Northeast, Inc.

Holder Identifier :

Certificate No : 570114189631

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AGENCY CUSTOMER ID: 570000027366

LOC #:

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Aon Risk Services Northeast, Inc.	Cellco Partnership dba Verizon Wireless
POLICY NUMBER: See Certificate Number: 570114189631	
CARRIER: See Certificate Number: 570114189631 / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 **FORM TITLE:** Certificate of Liability Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	WORKERS COMPENSATION							
B		N/A		WA769D550588075 MA	06/30/2025	06/30/2026		

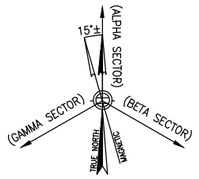
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5. Site information for each Site

- Plans
- Structural Analysis
- Pole Use License from Eversource
- Pole Use License from Verizon

Project Location - Chilmark SC 01, Middle Road, near 5 Guerin Lane, Chilmark, MA



SITE NAME: CHILMARK_SC01_MA

CLUSTER: CHILMARK

UTILITY POLE #10/50 1/2
5 GUERIN LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

PRESIDING POWER COMPANY
EVERSOURCE



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/50 1/2
N 41.364114° (41°–21'–50.81")
W 70.714934° (70°–42'–53.76")
APPROXIMATE GROUND ELEVATION 131.20'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

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" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/17/23

SITE NAME:
CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

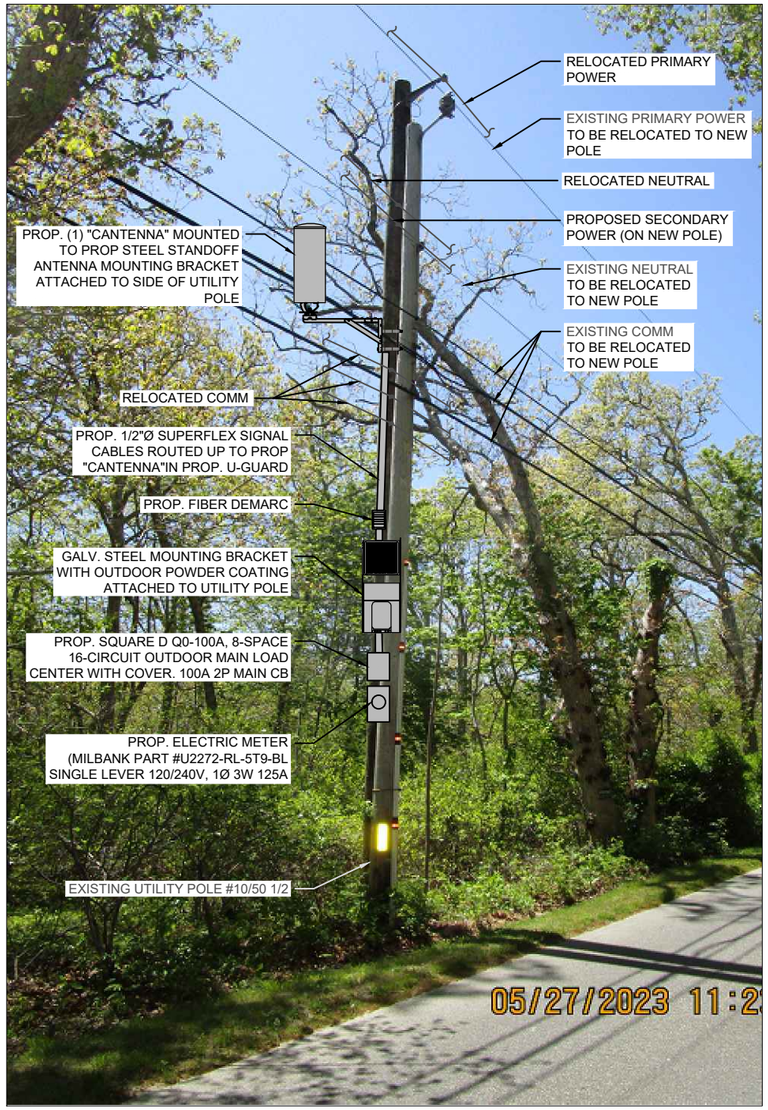
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

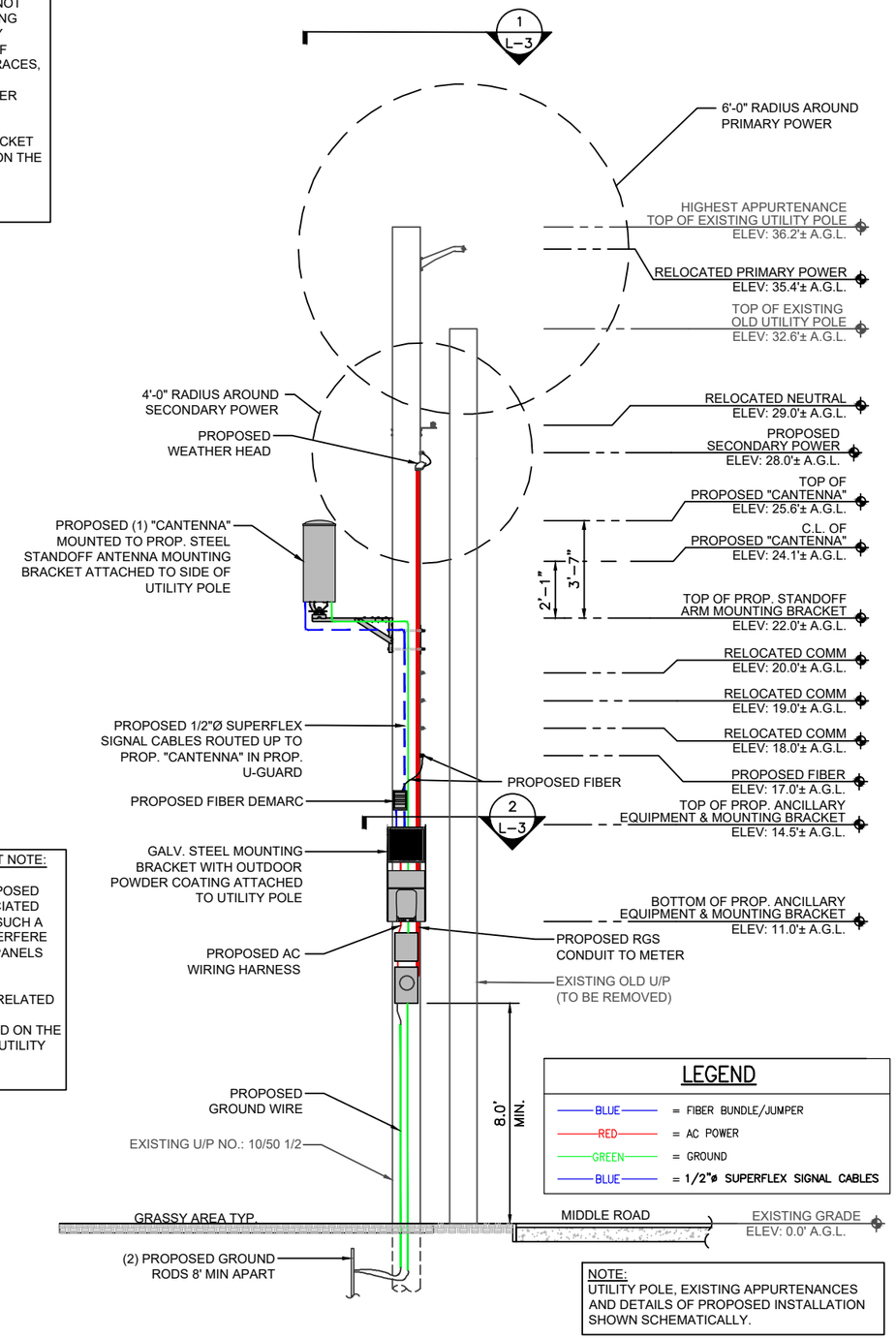


N.T.S.

UTILITY POLE # 10/50 1/2 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/50 1/2 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/17/23

SITE NAME:
CHILMARK_SC01_MA

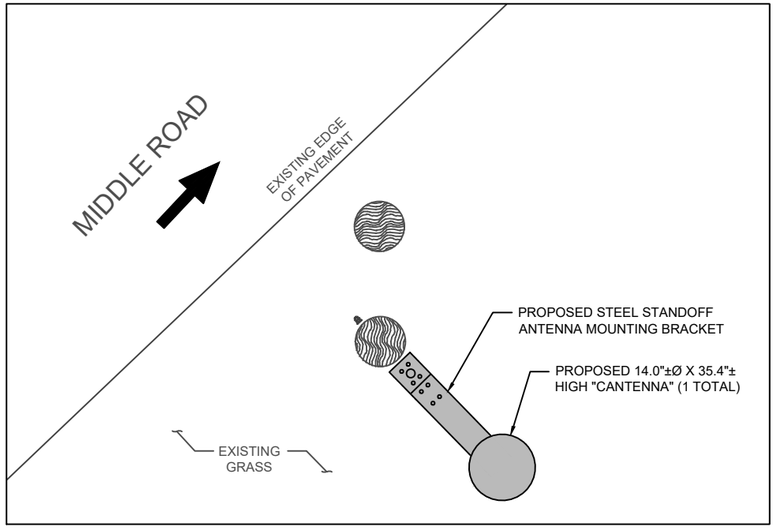
UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
VENDOR PROJ. NO.:	CHECKED BY: DC	SITE VISIT DATE:
17087910	ORIGINAL ISSUE DATE: 06/12/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

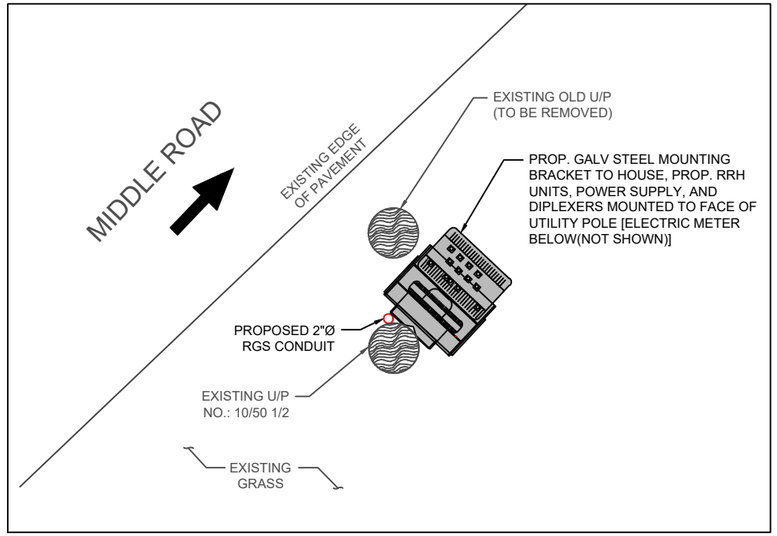
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

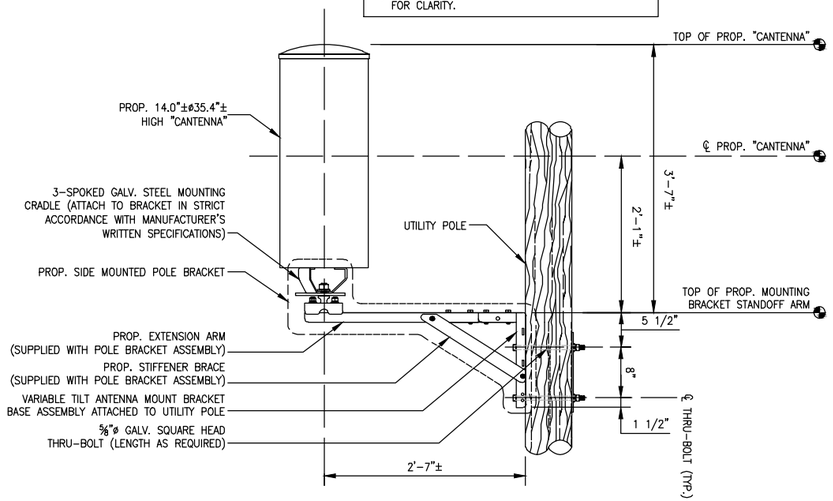
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

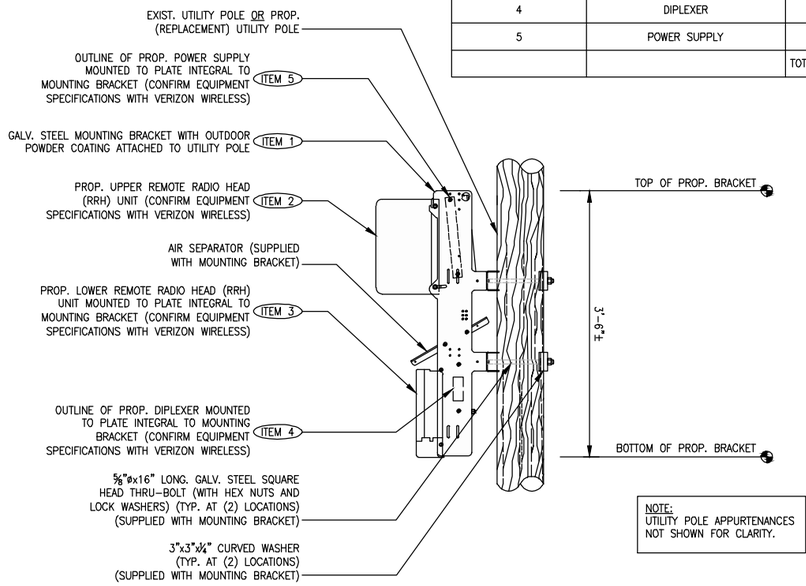
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/17/23

SITE NAME:

CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

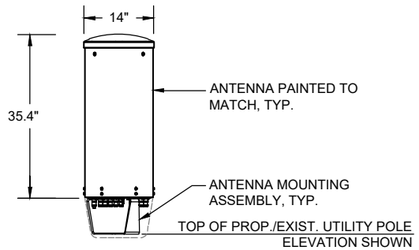
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

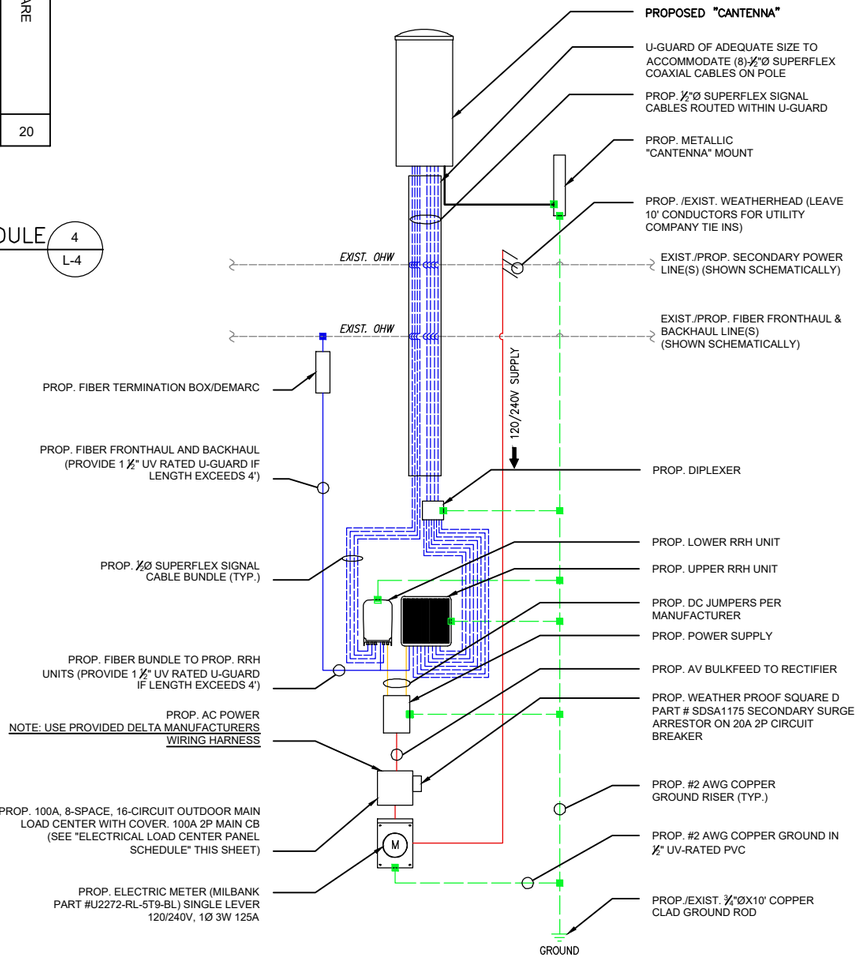
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/17/23

SITE NAME:

CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

August 17, 2023 (Rev. 1)

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC01_MA
FUZE Project ID: 17087910
MDG Location ID: 5000932233
Site Address: 5 Guerin Lane (Pole on Middle Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**35.8**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
36.2'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

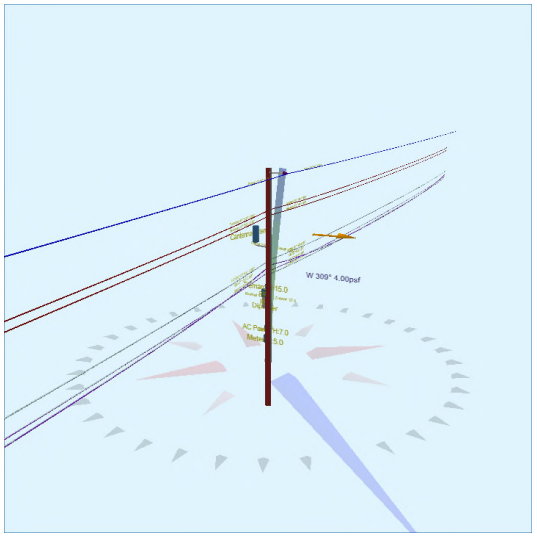
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**10/50 1/2**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**8.8**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**41.85**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**35.8**	0.0	309.3
Groundline	**35.8**	0.0	309.3
Vertical	**8.6**	19.6	309.3

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**46,170**	296.2	309.3
Groundline	**46,170**	296.2	309.3
GL Allowable	**131,524**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 296.2°

	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	520	26.9	**17,856**	38.7	**13.6**	**874**	817	6	**879**	**12.9**
Comms	1,017	52.6	**20,796**	45.0	**15.8**	**1,018**	1,905	14	**1,031**	**15.2**
GenericEquipments	58	3.0	**689**	1.5	**0.5**	**34**	370	3	**36**	**0.5**
Pole	225	11.6	**4,363**	9.5	**3.3**	**213**	2,745	20	**233**	**3.4**
Crossarms	104	5.4	**2,065**	4.5	**1.6**	**101**	177	1	**102**	**1.5**
Insulators	11	0.6	**401**	0.9	**0.3**	**20**	198	1	**21**	**0.3**
Pole Load	1,935	100.0	**46,170**	100.0	**35.1**	**2,259**	6,212	45	**2,303**	**33.9**
Pole Reserve Capacity			**85,354**		**64.9**	**4,541**			**4,497**	**66.1**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 296.2°

	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 (%)
Existing	1,017	52.6	**27,147**	58.8	**20.6**	**1,328**	2,362	17	**1,345**	**19.8**
Proposed	184	9.5	**5,640**	12.2	**4.3**	**276**	317	2	**278**	**4.1**
Vzw	508	26.3	**9,021**	19.5	**6.9**	**441**	788	6	**447**	**6.6**
Pole	225	11.6	**4,363**	9.5	**3.3**	**213**	2,745	20	**233**	**3.4**
Totals:	1,935	100.0	**46,170**	100.0	**35.1**	**2,259**	6,212	45	**2,303**	**33.9**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	35.40	46.35	0.3550	0.90	0.115	153.0	43.0	153.0	1,065	-11,506	356	2,161	-8,989
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	35.40	46.35	0.3550	0.95	0.115	158.0	225.0	158.0	1,065	12,830	368	2,201	15,399
Secondary	TRIPLEX 2 AWG	Existing	29.00	7.27	0.8060	1.95	0.248	153.0	43.0	153.0	855	-7,567	92	2,360	-5,116
Secondary	TRIPLEX 2 AWG	Existing	29.00	7.27	0.8060	2.03	0.248	158.0	225.0	158.0	855	8,438	95	2,403	10,936
Secondary	TRIPLEX 2 AWG	Proposed	28.00	7.33	0.8060	1.95	0.248	153.0	43.0	153.0	855	-7,306	92	2,278	-4,936
Secondary	TRIPLEX 2 AWG	Proposed	28.00	7.33	0.8060	2.03	0.248	158.0	225.0	158.0	855	8,147	95	2,320	10,563
											Totals:	**3,036**	**1,098**	**13,722**	**17,856**

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	Existing	18.00	7.99	0.3060	1.43	0.165	153.0	43.0	153.0	2,000	-10,987	56	1,161	-9,770
CATV	CATV .50	Existing	17.97	7.99	0.5700		0.600	153.0	43.0	153.0			97	349	446
Overlashed Bundle	10M	Existing	18.00	7.99	0.3060	1.52	0.165	158.0	225.0	158.0	2,000	12,252	58	1,182	13,491
CATV	CATV .50	Existing	17.97	7.99	0.5700		0.600	158.0	225.0	158.0			100	356	456
Overlashed Bundle	10M	Existing	19.00	7.92	0.3060	3.23	0.165	153.0	43.0	153.2	2,000	-11,598	42	1,126	-10,430
CATV	CATV .50	Existing	18.98	8.22	0.5700		0.600	153.0	43.0	153.2			86	269	355
CATV	CATV .50	Existing	18.98	7.62	0.5700		0.600	153.0	43.0	153.2			80	269	349
CATV	CATV .50	Existing	18.93	7.92	0.5700		0.600	153.0	43.0	153.2			83	269	352
Overlashed Bundle	10M	Existing	19.00	7.92	0.3060	3.43	0.165	158.0	225.0	158.2	2,000	12,932	43	1,146	14,121
CATV	CATV .50	Existing	18.98	8.22	0.5700		0.600	158.0	225.0	158.2			89	274	363
CATV	CATV .50	Existing	18.98	7.62	0.5700		0.600	158.0	225.0	158.2			82	274	356
CATV	CATV .50	Existing	18.93	7.92	0.5700		0.600	158.0	225.0	158.2			86	274	359
Overlashed Bundle	1/4" EHS	Existing	20.00	7.85	0.2500	1.78	0.121	153.0	43.0	153.0	800	-4,883	50	1,270	-3,563
Telco	26 GA 50 PR (0.58)	Existing	19.97	7.85	0.5800		0.180	153.0	43.0	153.0			55	368	424
Overlashed Bundle	1/4" EHS	Existing	20.00	7.85	0.2500	1.88	0.121	158.0	225.0	158.0	800	5,445	51	1,293	6,790
Telco	26 GA 50 PR (0.58)	Existing	19.97	7.85	0.5800		0.180	158.0	225.0	158.0			57	375	432
Overlashed Bundle	1/4" EHS	Vzw	17.00	8.05	0.2500	2.09	0.121	158.0	225.0	158.0	800	4,628	21	1,187	5,836
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	16.96	8.05	0.7560		0.208	158.0	225.0	158.0			24	406	430
											Totals:	**7,789**	**1,157**	**11,849**	**20,796**

GenericEquipment		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	Meter	Vzw	5.00	8.73	43.0	0.0	16.25	18.50	4.80	--	10.00	-7	36	29
Box	AC Power	Vzw	7.00	8.34	43.0	0.0	9.93	12.65	4.27	--	8.88	-4	31	27
Box	RRU	Vzw	13.83	11.60	45.0	0.0	102.50	17.30	11.50	--	17.30	-48	202	154
Box	Diplexer	Vzw	11.17	7.46	45.0	0.0	7.60	4.80	3.30	--	7.90	-3	17	13
Box	RRU	Vzw	12.17	8.26	45.0	0.0	21.40	13.90	4.80	--	9.80	-6	69	63
Box	Demarc	Vzw	15.00	7.03	43.0	0.0	2.00	9.60	2.70	--	7.00	-1	32	31
Cylinder	Cantenna Antenna	Vzw	24.08	36.80	240.0	0.0	35.00	35.40	--	14.00	--	-174	546	371
											Totals:	**-244**	**933**	**689**

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	Bracket	Vzw	12.50	-5.91	225.0	225.0	28.00	42.00	0.50	21.00	-9	49	40
Normal	Riser	Vzw	18.10	6.98	315.0	315.0	37.40	434.40	3.00	3.00	41	1,888	1,930
Offset	Standoff	Vzw	22.00	2.41	240.0	240.0	28.00	1.50	5.38	31.00	67	28	94
										Totals:	**99**	**1,966**	**2,065**

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)
Davit	Insulator, 15 kV	Existing	35.40	0.00	318.0	318.0	60.00	5.00	42.00	0	372	372
Spool	Spool 3"	Existing	29.00	0.00	318.0	318.0	2.00	3.00	3.19	0	14	14
Bolt	1.25" CATV on 10M strand	Existing	18.00	0.00	318.0	318.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	19.00	0.00	317.0	317.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	20.00	0.00	318.0	318.0	5.00	3.00	0.10	0	0	0
Spool	Spool 3"	Proposed	28.00	0.00	318.0	318.0	2.00	3.00	3.19	0	13	13
Extension	Single Bolt	Vzw	12.50	-9.06	36.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	45.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	36.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	22.50	-32.88	153.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	17.00	0.00	225.0	225.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**401**	**401**

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	19.58	32.88	12.48	7.21	8.60	13.33	1.60e+6	60.00	57.00	36.20	72,445	**722.34**	**11.63**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/27/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC01MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC01MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 2/5/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC01MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC01MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301
W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/27/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC01MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
5 Guering Lane (pole on Middle Rd		N/A	10/50	1/2		x								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 12/30/23 ***WO Received Date:*** _____

Service Address: Street: 5 Guering Lane (pole on Middle Rd) Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (1) meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

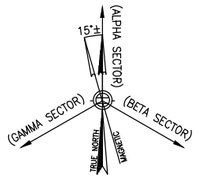
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC01_MA

CLUSTER: CHILMARK

UTILITY POLE #10/50 1/2
5 GUERIN LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

PRESIDING POWER COMPANY
EVERSOURCE



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/50 1/2
N 41.364114° (41°–21'–50.81")
W 70.714934° (70°–42'–53.76")
APPROXIMATE GROUND ELEVATION 131.20'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/17/23

SITE NAME:
CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

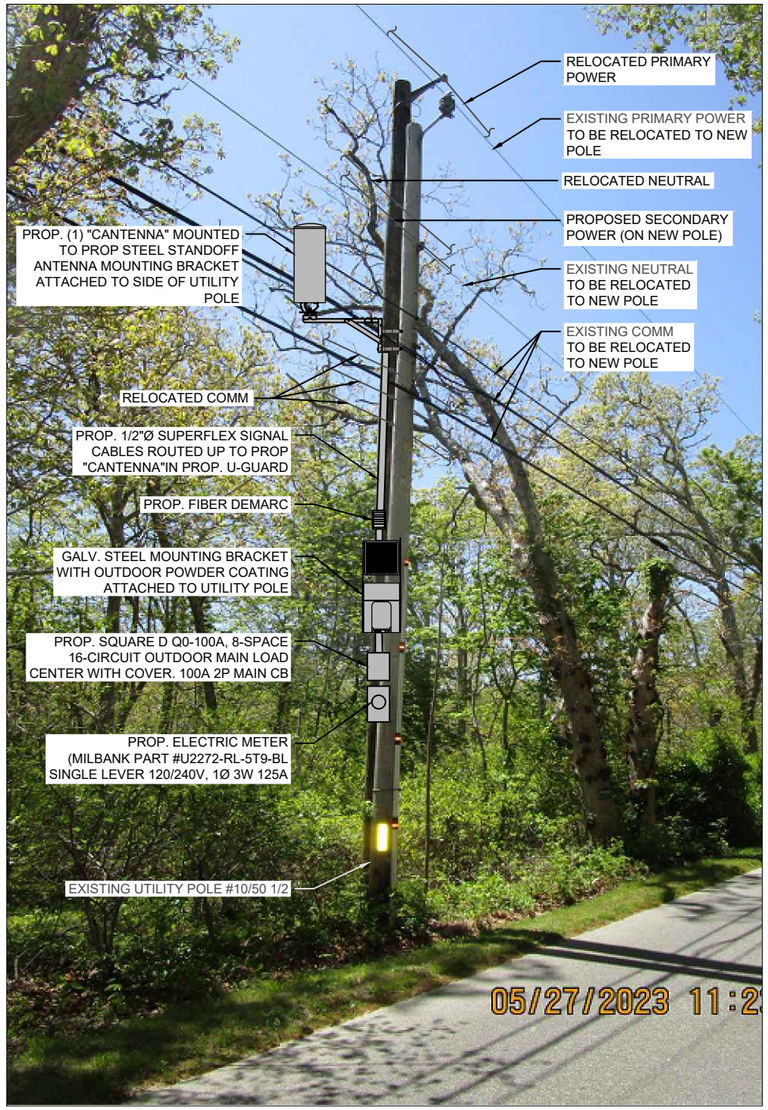
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

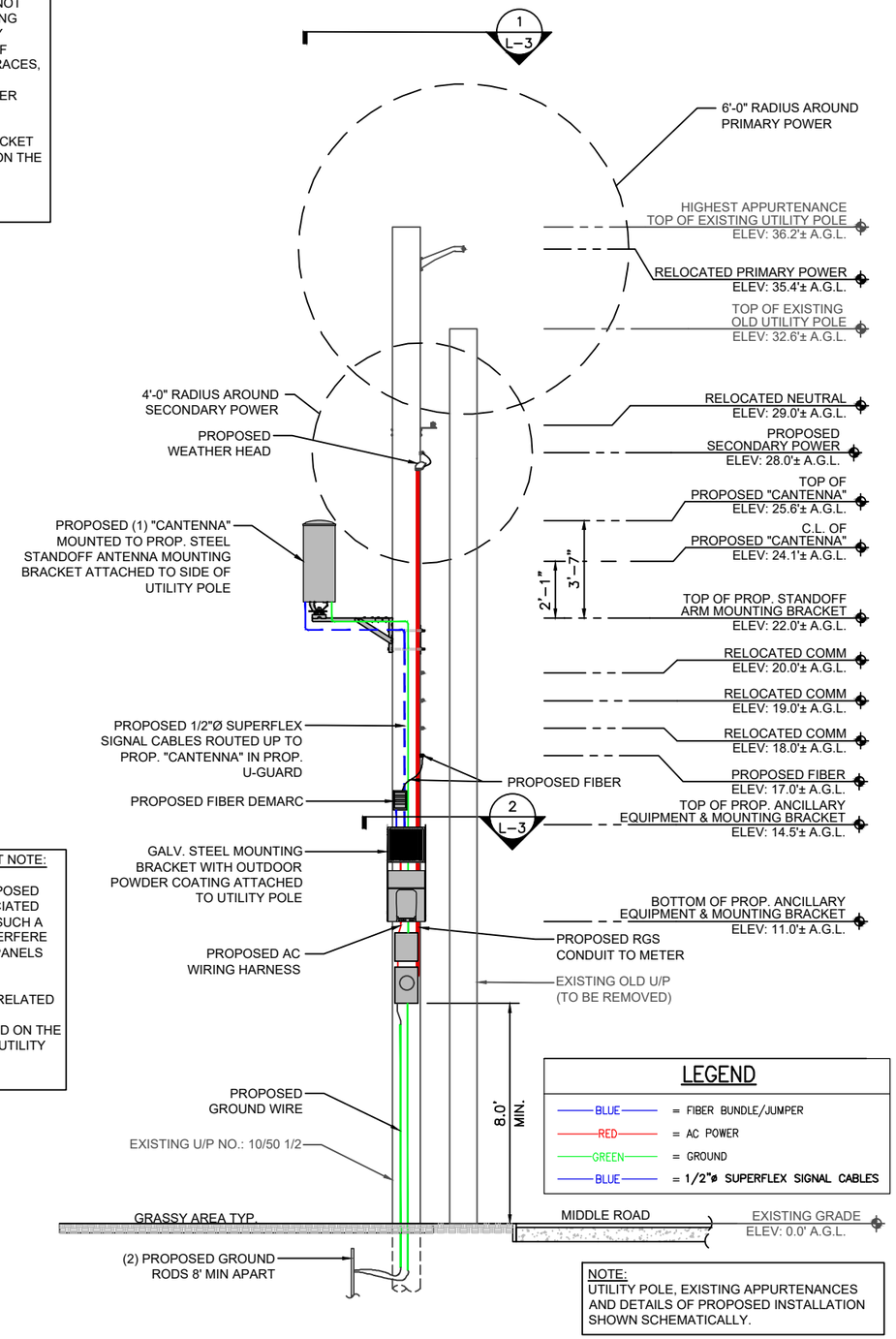


N.T.S.

UTILITY POLE # 10/50 1/2 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/50 1/2 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/17/23

SITE NAME:
CHILMARK_SC01_MA

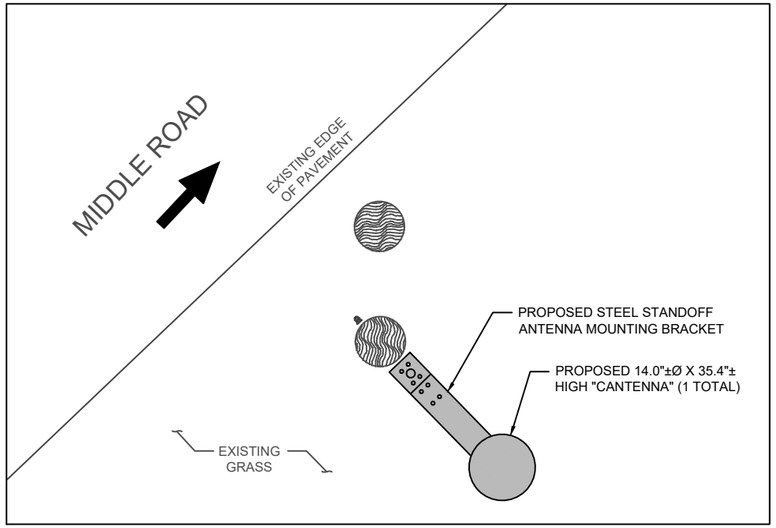
UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
VENDOR PROJ. NO.:	CHECKED BY: DC	SITE VISIT DATE:
17087910	ORIGINAL ISSUE DATE: 06/12/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

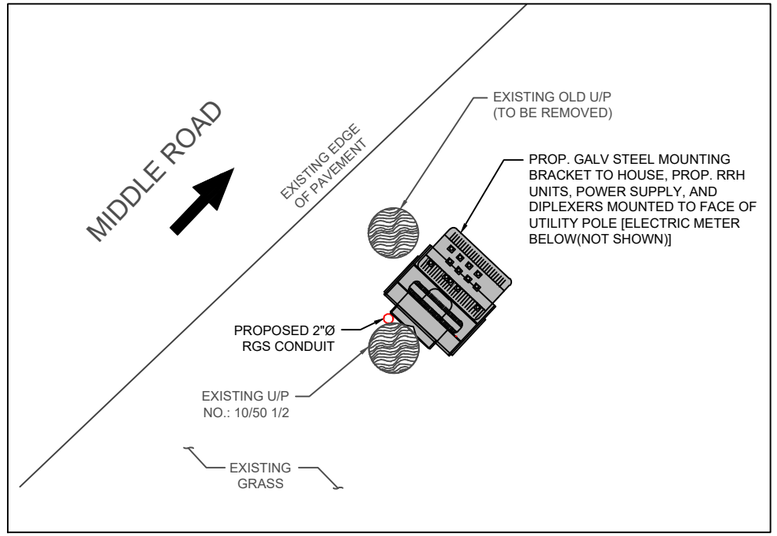
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

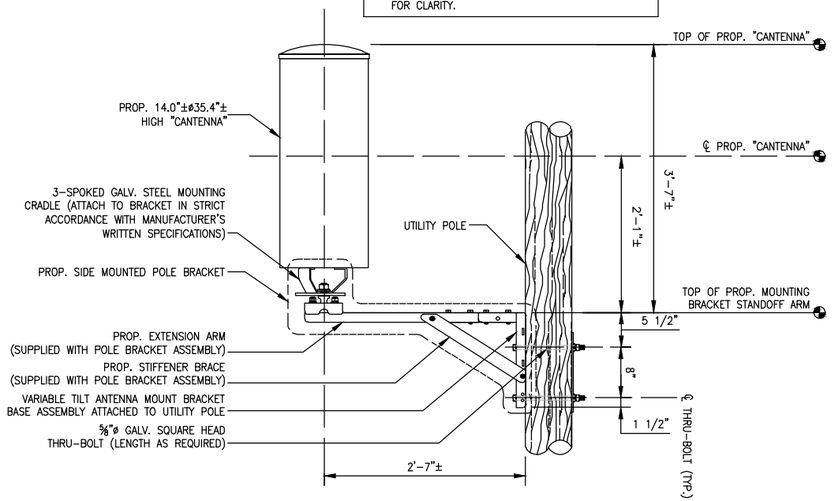
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

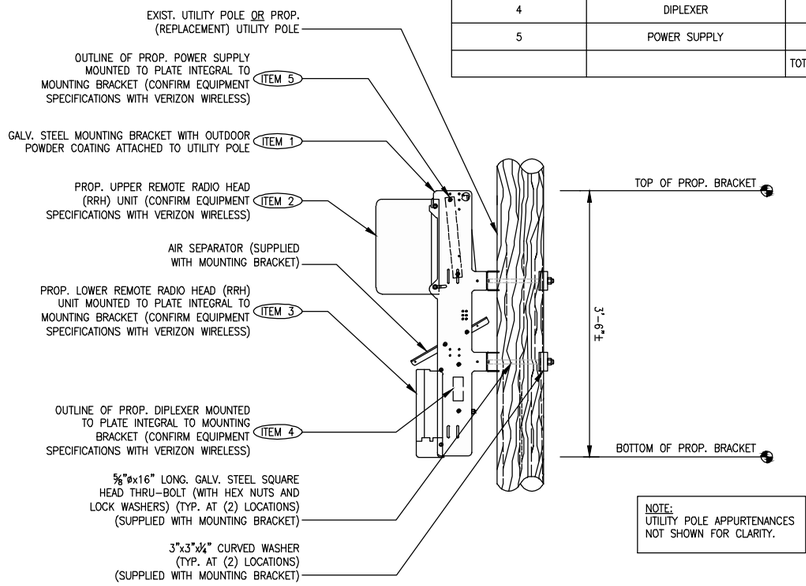
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

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1	REVISED FOR REVIEW	08/17/23

SITE NAME:

CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

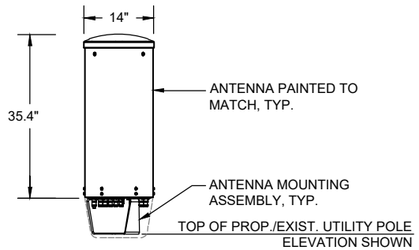
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

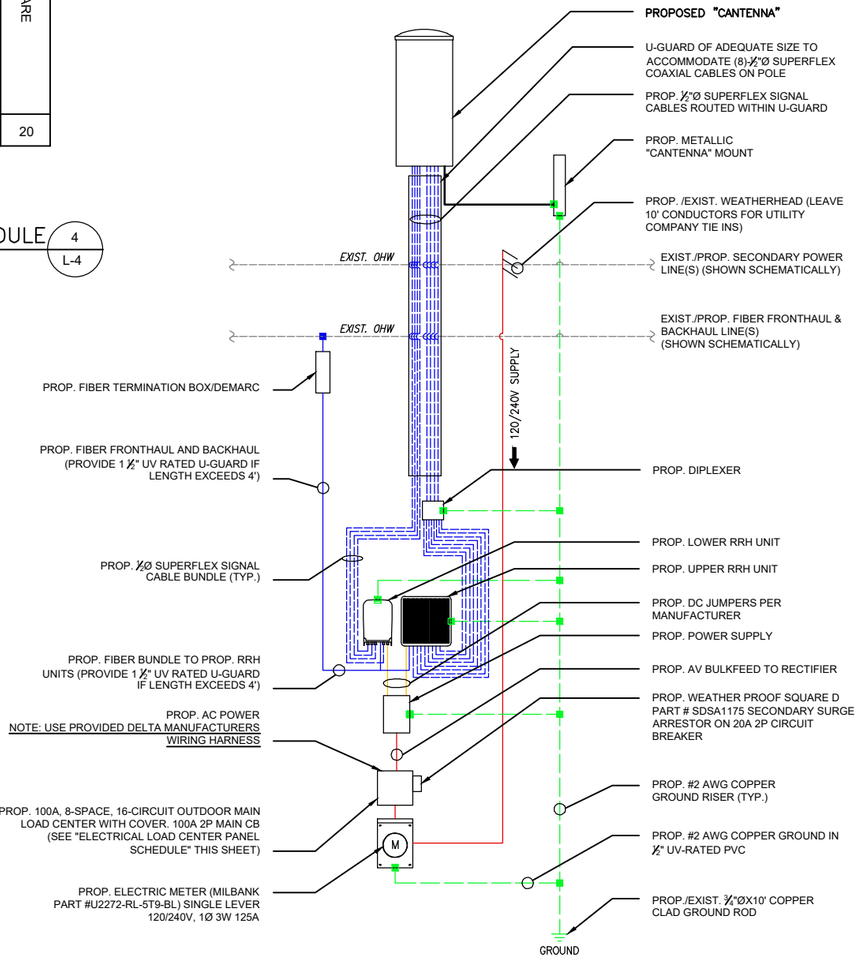
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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SITE NAME:

CHILMARK_SC01_MA

UTILITY POLE #10/50 1/2
5 GUERIN LANE
(POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932233
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087910	06/12/23	05/27/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

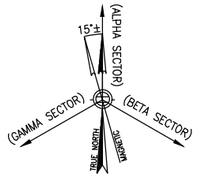
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125054
Customer Application Number	ChilmarkSC01MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/21/2023
Date	12/21/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

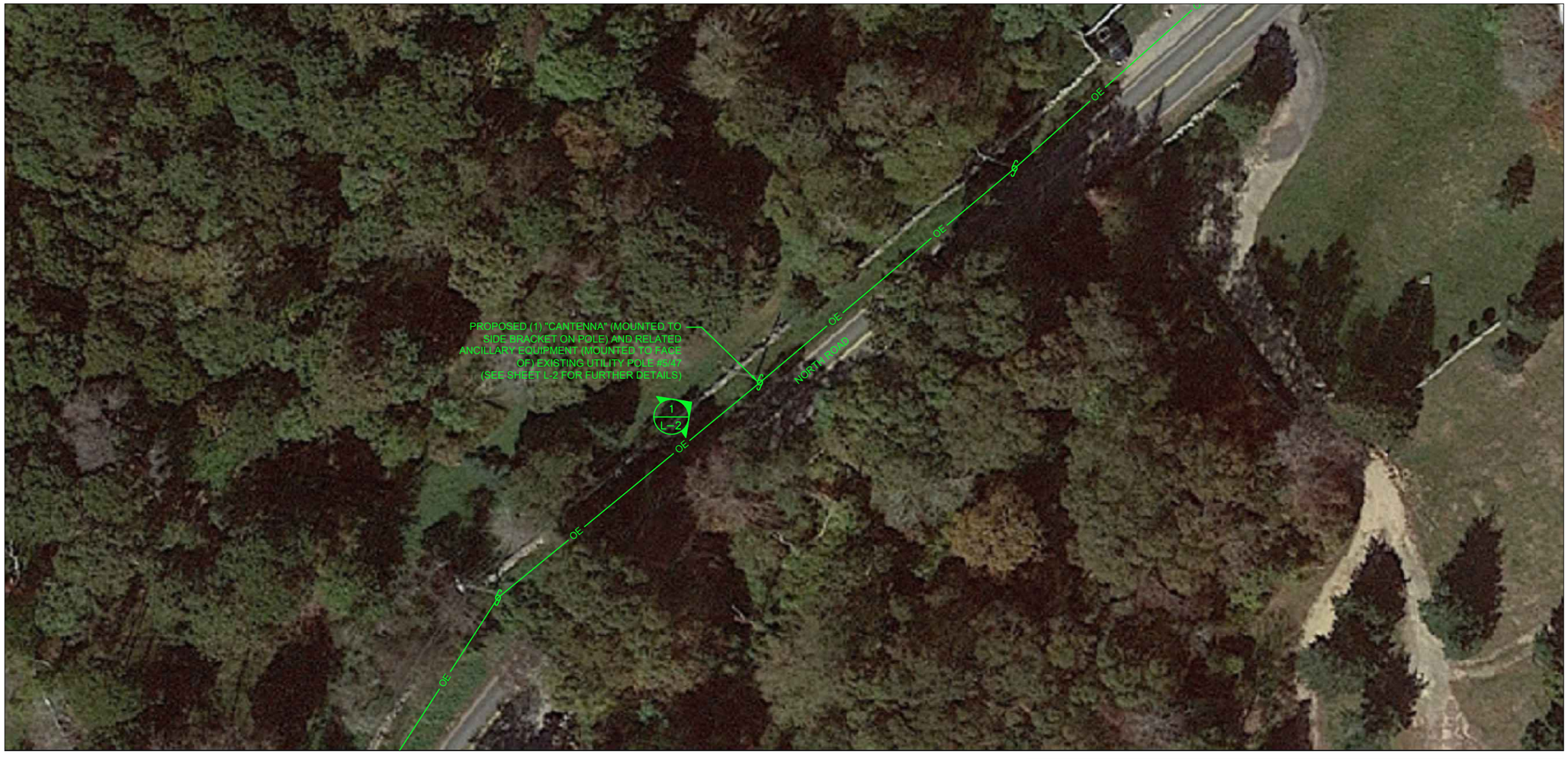
Project Location - Chilmark SC 06, North Road near 0 Cape Higgon Way, Chilmark, MA



SITE NAME: CHILMARK_SC06_MA

CLUSTER: CHILMARK

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/47
N 41.385582° (41° 23' 8.09")
W -70.722521° (-70° 43' 21.08")
APPROXIMATE GROUND ELEVATION 131.8'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

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SITE NAME:
CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

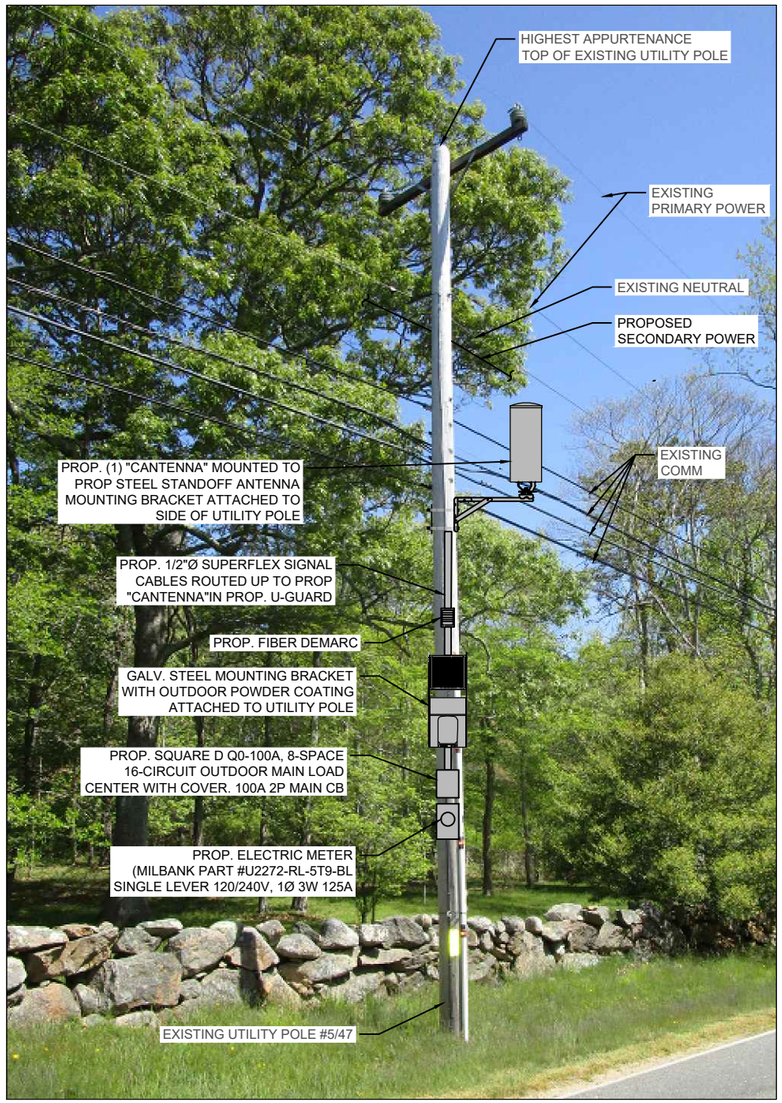
DRAWING NO:
L-1

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23

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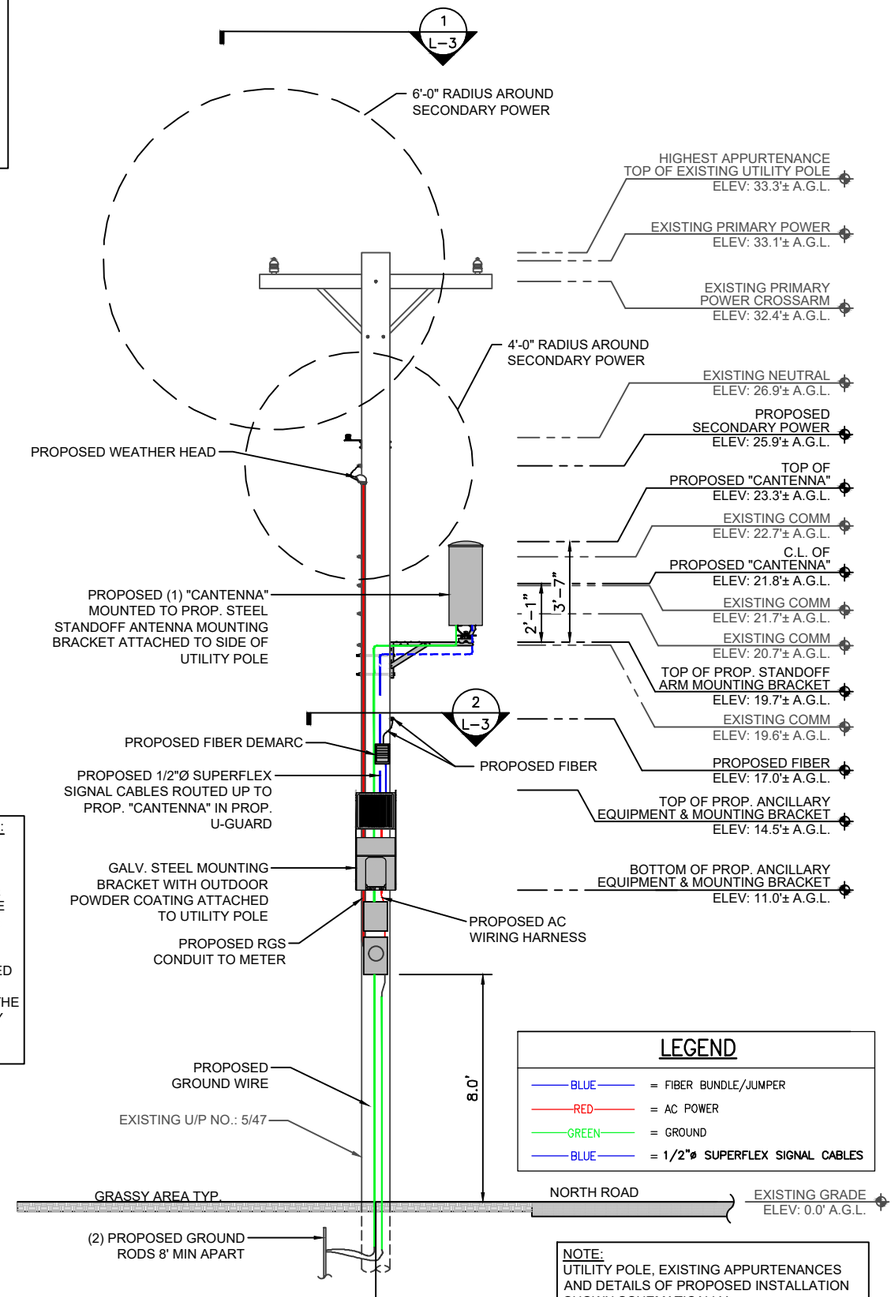


UTILITY POLE # 5/47 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
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NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/47 ELEVATION (PROPOSED CONDITIONS) 1 L-2

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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CHILMARK_SC06_MA

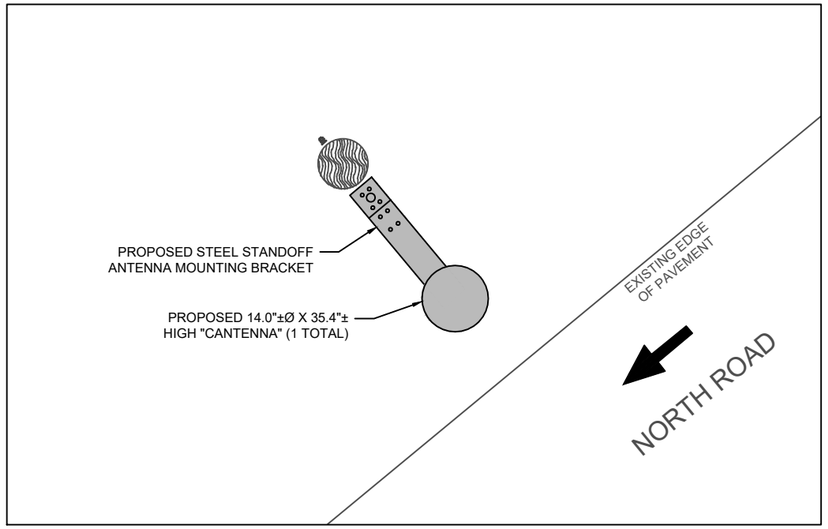
UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

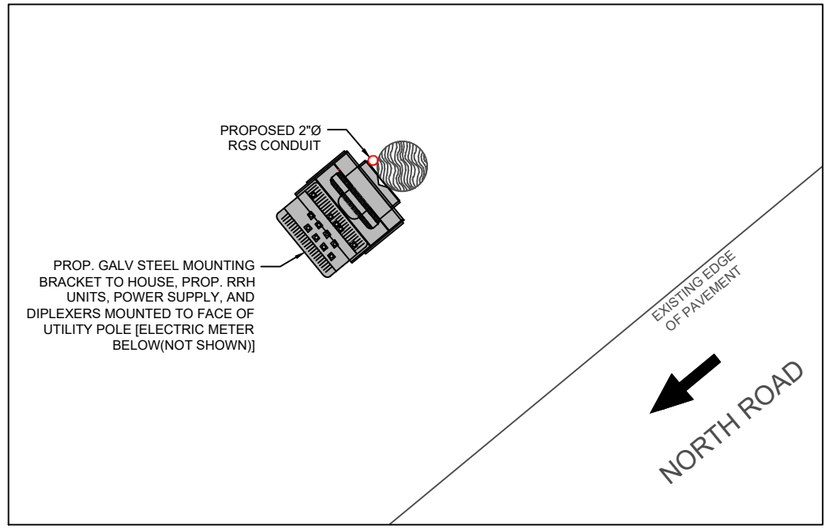
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

3/8" = 1'-0"

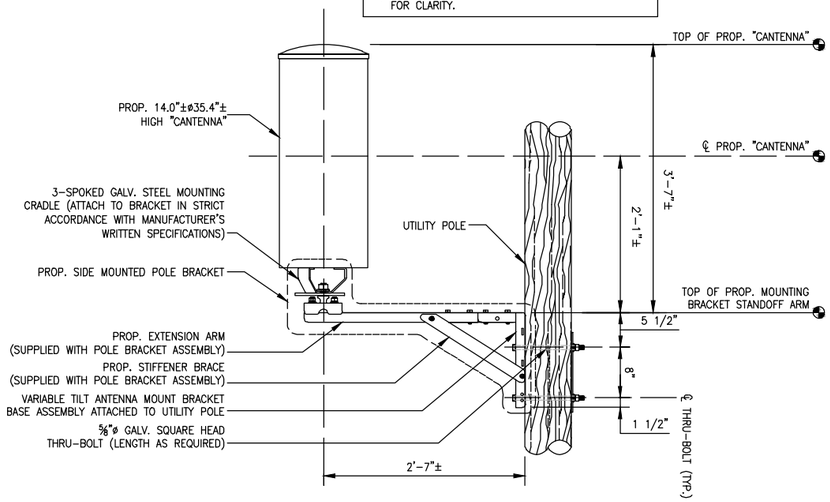
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

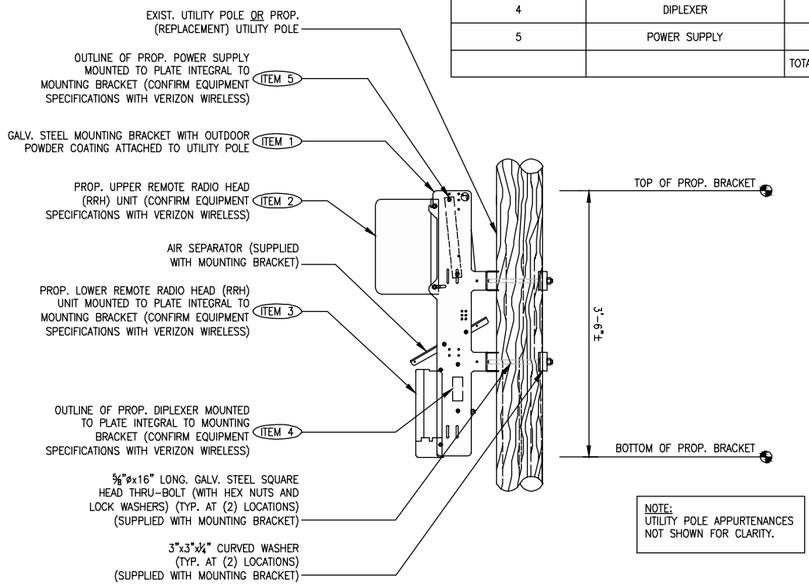
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

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REVISIONS

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0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

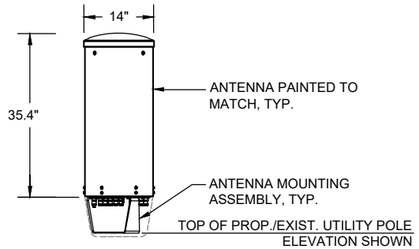
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

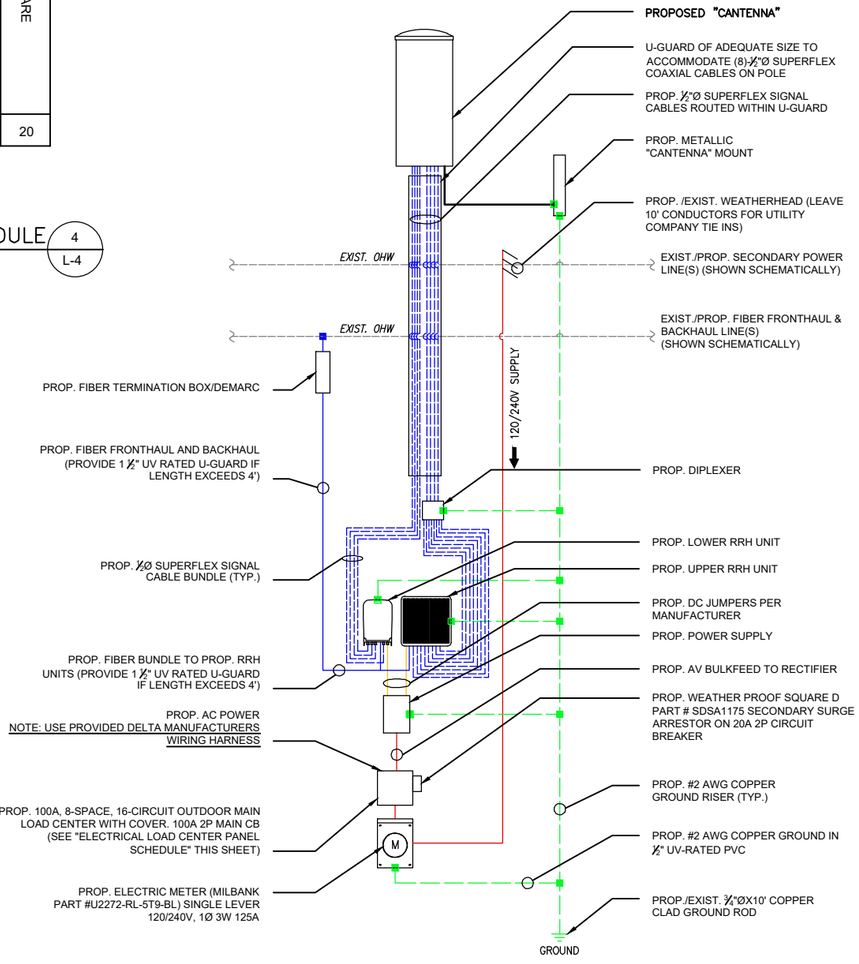
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 19, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC06_MA
FUZE Project ID: 17087897
MDG Location ID: 5000932239
Site Address: 0 Cape Higgon Way (Pole Is on North Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**48.8**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
33.3'	40/3	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

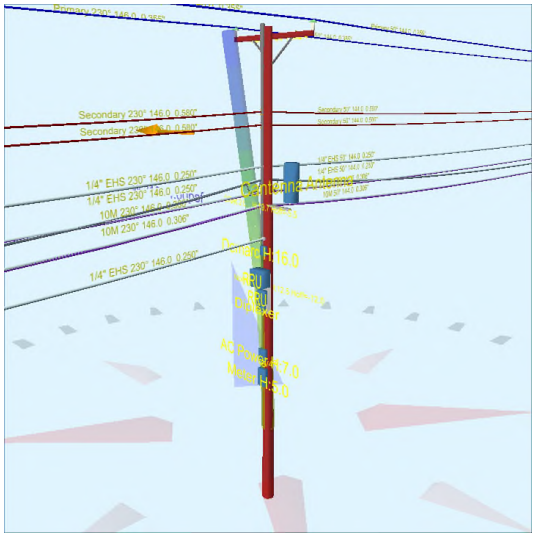
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/47**	Pole Length / Class:	**40 / 3**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**6.9**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**37.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**48.8**	0.0	315.6
Groundline	**48.8**	0.0	315.6
Vertical	**14.7**	20.1	315.6

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**43,611**	300.2	315.6
Groundline	**43,611**	300.2	315.6
GL Allowable	**90,883**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 300.2°

	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	466	24.6	**14,415**	33.1	**15.9**	**1,045**	789	7	**1,052**	**15.5**
Comms	1,088	57.6	**23,449**	53.8	**25.8**	**1,699**	2,325	21	**1,721**	**25.3**
GenericEquipments	58	3.1	**746**	1.7	**0.8**	**54**	370	3	**57**	**0.8**
Pole	178	9.4	**3,079**	7.1	**3.4**	**223**	1,911	18	**241**	**3.5**
Crossarms	96	5.1	**1,774**	4.1	**2.0**	**129**	278	3	**131**	**1.9**
Insulators	5	0.2	**148**	0.3	**0.2**	**11**	120	1	**12**	**0.2**
Pole Load	1,890	100.0	**43,611**	100.0	**48.0**	**3,161**	5,792	53	**3,214**	**47.3**
Pole Reserve Capacity			**47,272**		**52.0**	**3,639**			**3,586**	**52.7**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 300.2°

	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 (%)
Existing	1,082	57.3	**28,361**	65.0	**31.2**	**2,055**	2,887	27	**2,082**	**30.6**
Proposed	126	6.7	**3,485**	8.0	**3.8**	**253**	220	2	**255**	**3.7**
Vzw	504	26.7	**8,686**	19.9	**9.6**	**630**	774	7	**637**	**9.4**
Pole	178	9.4	**3,079**	7.1	**3.4**	**223**	1,911	18	**241**	**3.5**
Totals:	1,890	100.0	**43,611**	100.0	**48.0**	**3,161**	5,792	53	**3,214**	**47.3**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.30	48.31	0.3550	0.81	0.115	144.0	50.0	144.0	1,065	-12,380	-358	1,837	-10,902
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.30	48.31	0.3550	0.83	0.115	146.0	230.0	146.0	1,065	12,380	-363	1,862	13,880
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.30	48.31	0.3550	0.81	0.115	144.0	50.0	144.0	1,065	-12,380	330	1,837	-10,214
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.30	48.31	0.3550	0.83	0.115	146.0	230.0	146.0	1,065	12,380	334	1,862	14,577
Secondary	TRIPLEX 6 AWG	Existing	26.90	6.58	0.5800	1.89	0.113	144.0	50.0	144.0	357	-3,351	59	1,729	-1,563
Secondary	TRIPLEX 6 AWG	Existing	26.90	6.58	0.5800	1.92	0.113	146.0	230.0	146.0	357	3,351	60	1,753	5,164
Secondary	TRIPLEX 6 AWG	Proposed	25.90	6.65	0.5800	1.89	0.113	144.0	50.0	144.0	357	-3,227	59	1,665	-1,502
Secondary	TRIPLEX 6 AWG	Proposed	25.90	6.65	0.5800	1.92	0.113	146.0	230.0	146.0	357	3,227	60	1,688	4,975
											Totals:	**0**	**181**	**14,234**	**14,415**

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	1/4" EHS	Existing	22.70	6.86	0.2500	1.67	0.121	144.0	50.0	144.0	800	-6,338	45	1,366	-4,926
Telco	26 GA 50 PR (0.58)	Existing	22.66	6.86	0.5800		0.180	144.0	50.0	144.0			49	442	491
Overlashed Bundle	1/4" EHS	Existing	22.70	6.86	0.2500	1.71	0.121	146.0	230.0	146.0	800	6,338	45	1,385	7,768
Telco	26 GA 50 PR (0.58)	Existing	22.66	6.86	0.5800		0.180	146.0	230.0	146.0			50	448	498
Overlashed Bundle	1/4" EHS	Existing	21.70	6.93	0.2500	3.24	0.121	144.0	50.0	144.2	800	-6,058	29	1,141	-4,889
Telco	26 GA 50 PR (0.58)	Existing	21.68	7.26	0.5800		0.180	144.0	50.0	144.2			35	258	293
Telco	26 GA 50 PR (0.58)	Existing	21.68	6.60	0.5800		0.180	144.0	50.0	144.2			32	261	293
Telco	26 GA 50 PR (0.58)	Existing	21.63	7.22	0.5800		0.180	144.0	50.0	144.2			35	257	292
Telco	26 GA 50 PR (0.58)	Existing	21.63	6.64	0.5800		0.180	144.0	50.0	144.2			32	257	289
Overlashed Bundle	1/4" EHS	Existing	21.70	6.93	0.2500	3.32	0.121	146.0	230.0	146.2	800	6,058	29	1,157	7,244
Telco	26 GA 50 PR (0.58)	Existing	21.68	7.26	0.5800		0.180	146.0	230.0	146.2			35	261	297
Telco	26 GA 50 PR (0.58)	Existing	21.68	6.60	0.5800		0.180	146.0	230.0	146.2			32	265	297
Telco	26 GA 50 PR (0.58)	Existing	21.63	7.22	0.5800		0.180	146.0	230.0	146.2			35	261	296
Telco	26 GA 50 PR (0.58)	Existing	21.63	6.64	0.5800		0.180	146.0	230.0	146.2			32	261	293
Overlashed Bundle	10M	Existing	20.70	7.00	0.3060	1.31	0.165	144.0	50.0	144.0	2,000	-14,448	54	1,322	-13,073
CATV	CATV .50	Existing	20.64	7.00	0.5700		0.600	144.0	50.0	144.0			88	478	566
Overlashed Bundle	10M	Existing	20.70	7.00	0.3060	1.35	0.165	146.0	230.0	146.0	2,000	14,448	54	1,340	15,842
CATV	CATV .50	Existing	20.64	7.00	0.5700		0.600	146.0	230.0	146.0			90	485	574
Overlashed Bundle	10M	Existing	19.60	7.07	0.3060	2.16	0.165	144.0	50.0	144.1	2,000	-13,680	50	1,252	-12,378
CATV	CATV .50	Existing	19.54	7.07	0.5700		0.600	144.0	50.0	144.1			85	453	538
CATV	CATV .50	Existing	19.49	7.07	0.5700		0.600	144.0	50.0	144.1			85	452	537
Overlashed Bundle	10M	Existing	19.60	7.07	0.3060	2.21	0.165	146.0	230.0	146.1	2,000	13,680	51	1,269	15,000
CATV	CATV .50	Existing	19.54	7.07	0.5700		0.600	146.0	230.0	146.1			86	459	545
CATV	CATV .50	Existing	19.49	7.07	0.5700		0.600	146.0	230.0	146.1			86	458	544
Overlashed Bundle	1/4" EHS	Vzw	17.00	7.24	0.2500	1.83	0.121	146.0	230.0	146.0	800	4,746	18	1,068	5,831
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	16.96	7.24	0.7560		0.208	146.0	230.0	146.0			20	365	385
											Totals:	**4,746**	**1,284**	**17,418**	**23,449**

GenericEquipment		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	Meter	Vzw	5.00	7.95	230.0	0.0	16.25	18.50	4.80	--	10.00	7	35	43
Box	AC Power	Vzw	7.00	7.55	230.0	0.0	9.93	12.65	4.27	--	8.88	4	30	34
Box	RRU	Vzw	13.83	12.39	230.0	0.0	102.50	17.30	11.50	--	17.30	55	195	250
Box	Diplexer	Vzw	11.17	8.25	230.0	0.0	7.60	4.80	3.30	--	7.90	4	16	19
Box	RRU	Vzw	12.17	9.05	230.0	0.0	21.40	13.90	4.80	--	9.80	7	66	74
Box	Demarc	Vzw	16.00	6.16	230.0	0.0	2.00	9.60	2.70	--	7.00	1	33	34
Cylinder	Cantenna Antenna	Vzw	21.78	36.78	240.0	0.0	35.00	35.40	--	14.00	--	-181	472	292
											Totals:	**-103**	**849**	**746**

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	Existing	32.40	5.46	50.0	50.0	53.00	4.50	3.50	96.00	-16	67	51
Normal	Bracket	Vzw	12.50	-6.70	50.0	50.0	28.00	42.00	0.50	21.00	10	43	53
Normal	Riser	Vzw	16.65	6.27	315.0	315.0	37.40	400.00	3.00	3.00	37	1,547	1,584
Offset	Standoff	Vzw	19.70	1.75	240.0	240.0	28.00	1.50	5.38	31.00	66	20	85
										Totals:	**97**	**1,677**	**1,774**

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)
Pin	Pin Insulator - 10 kV	Existing	32.59	48.00	133.5	0.0	7.00	4.50	8.50	0	61	61
Pin	Pin Insulator - 10 kV	Existing	32.59	-48.00	326.5	0.0	7.00	4.50	8.50	0	61	61
Spool	Spool 3"	Existing	26.90	0.00	315.0	315.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Proposed	25.90	0.00	315.0	315.0	2.00	3.00	3.19	0	12	12
Bolt	Three Bolt	Existing	22.70	0.00	315.0	315.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	21.70	0.00	315.0	315.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.70	0.00	315.0	315.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	19.60	0.00	315.0	315.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	222.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	230.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	222.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	20.20	-32.88	152.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	17.00	0.00	230.0	230.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**148**	**148**

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	20.11	33.45	10.87	7.29	7.32	11.78	1.60e+6	60.00	57.00	33.10	39,506	**394.01**	**6.80**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date9/27/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC06MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC06MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 3/19/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC06MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC06MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/27/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC06MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
0 Cape Higgon Way (Pole is on North Road		N/A	5/47			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/27/24 ***WO Received Date:*** _____

Service Address: Street: 0 Cape Higgon Way (Pole is on North Road) Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

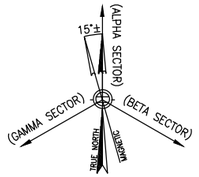
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

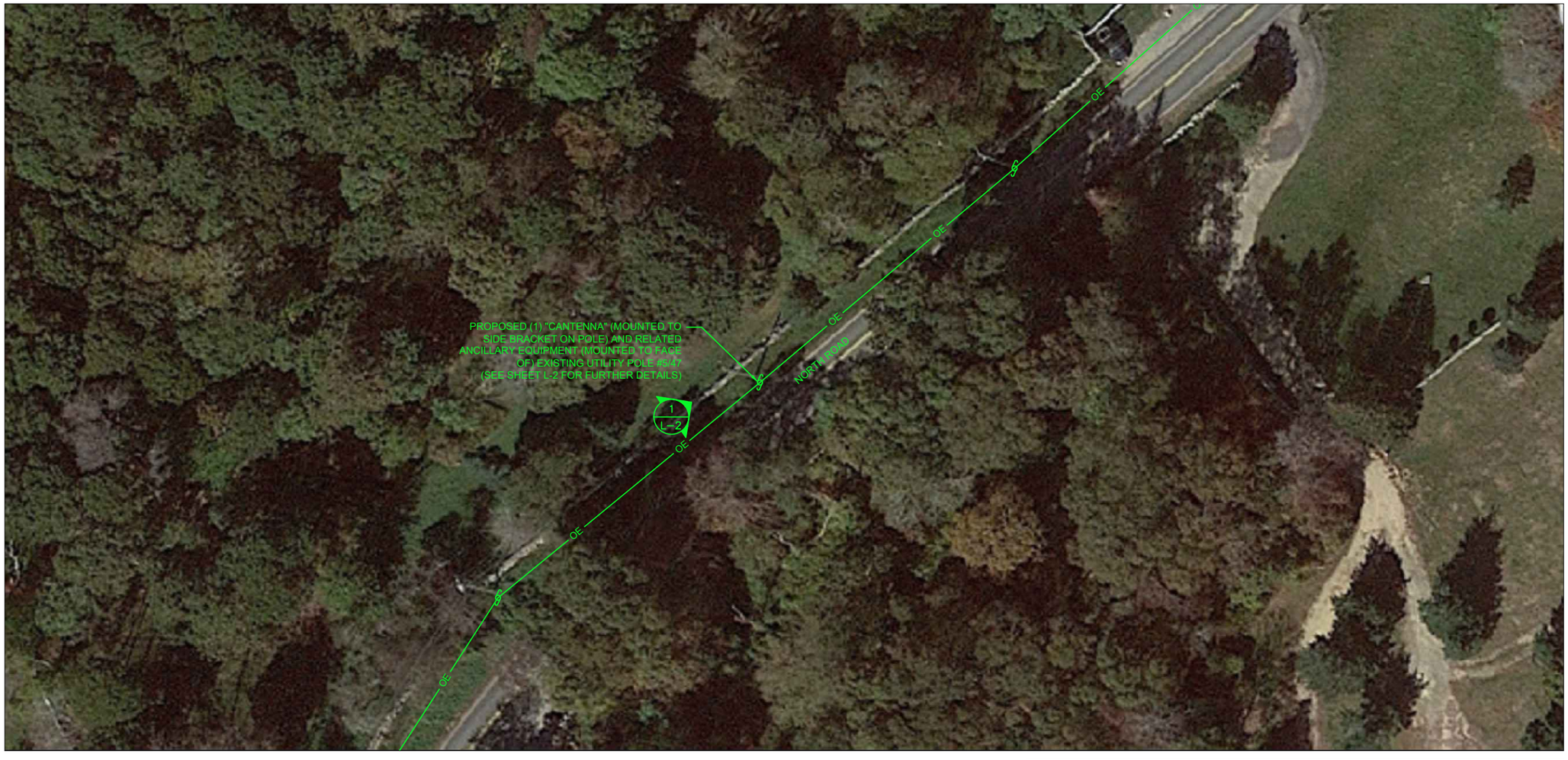
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC06_MA

CLUSTER: CHILMARK

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/47
N 41.385582° (41° 23' 8.09")
W -70.722521° (-70° 43' 21.08")
APPROXIMATE GROUND ELEVATION 131.8'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

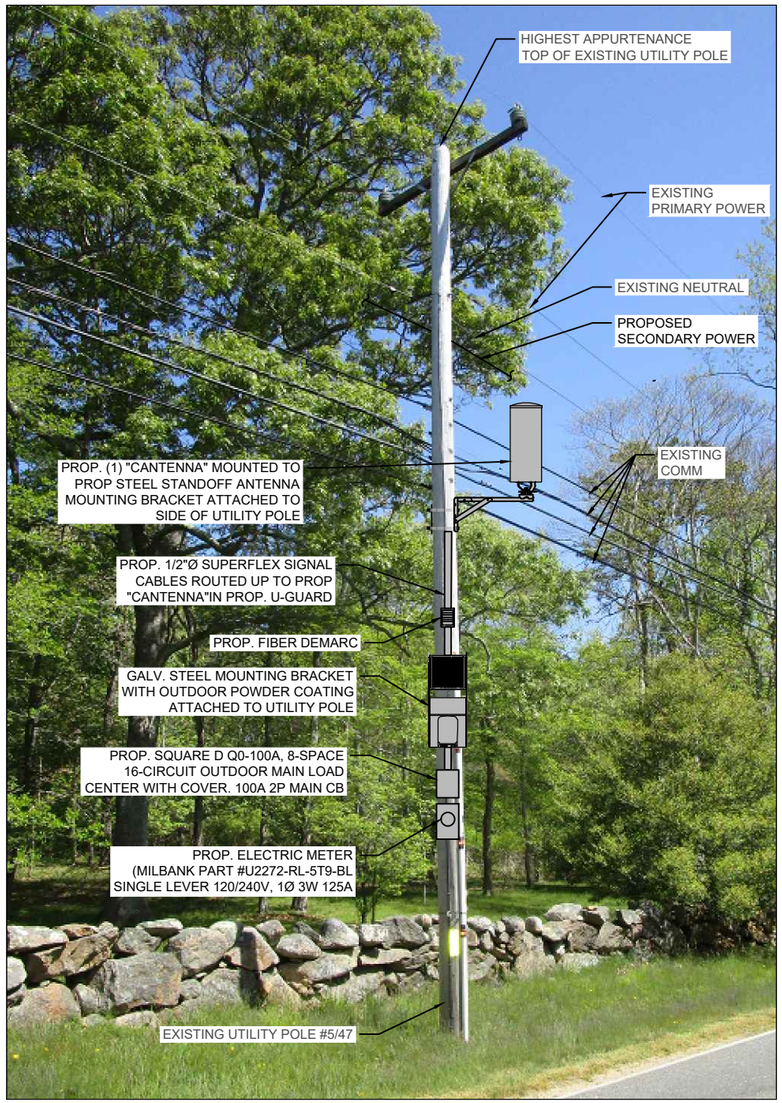
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

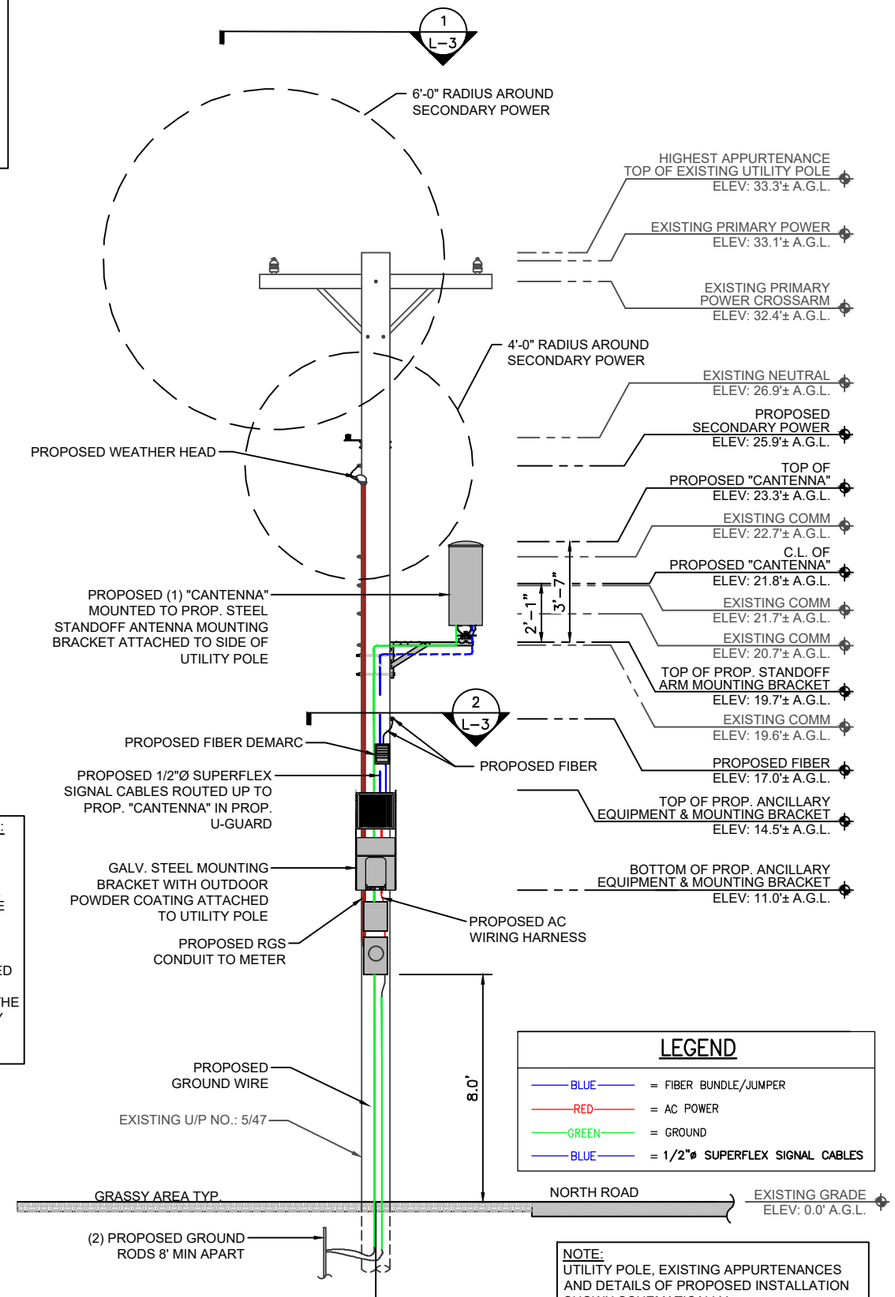


UTILITY POLE # 5/47 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/47 ELEVATION (PROPOSED CONDITIONS) 1 L-2

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC06_MA

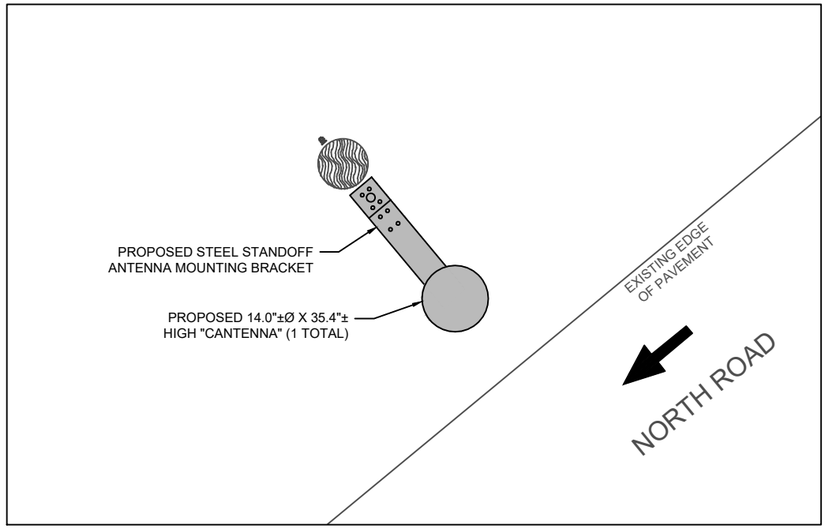
UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

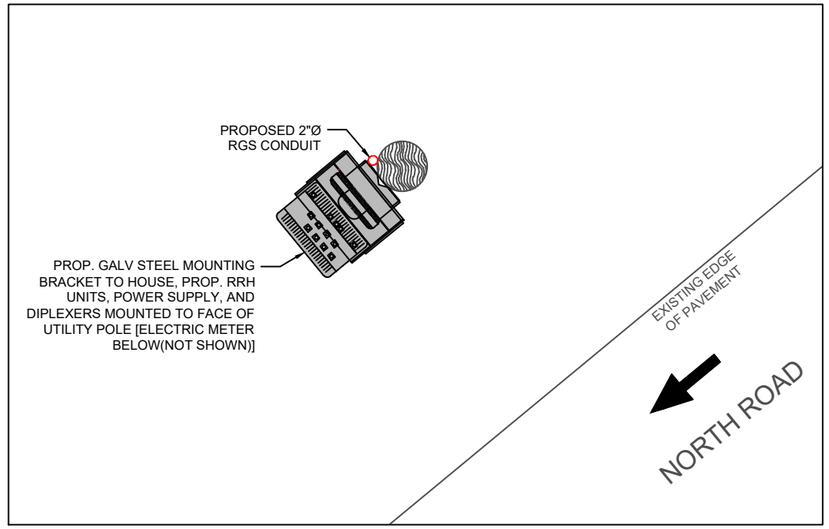
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

3/8" = 1'-0"

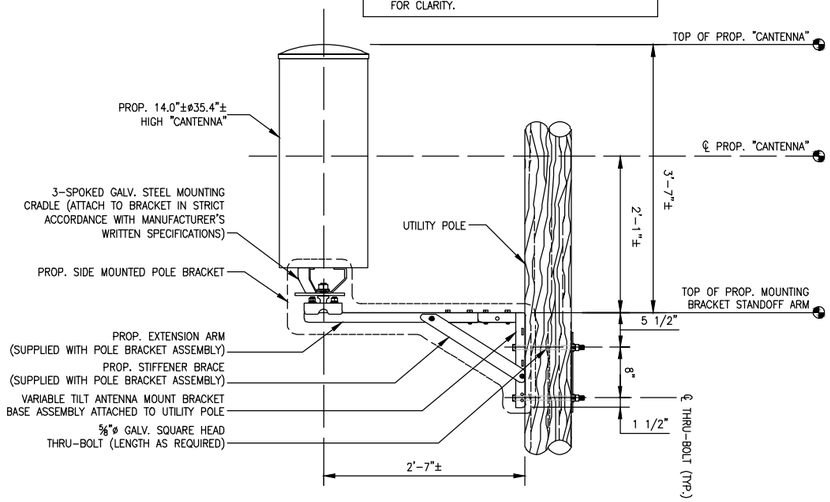
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

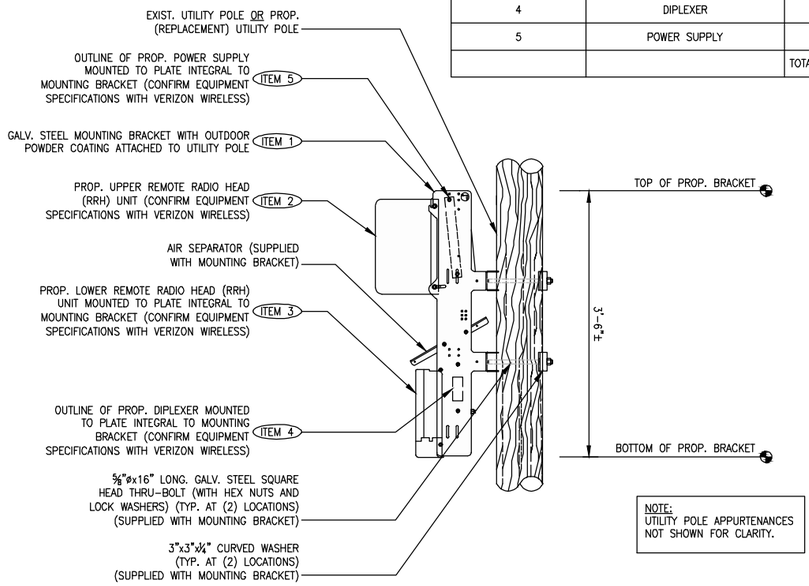
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

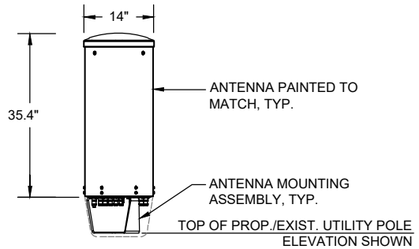
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

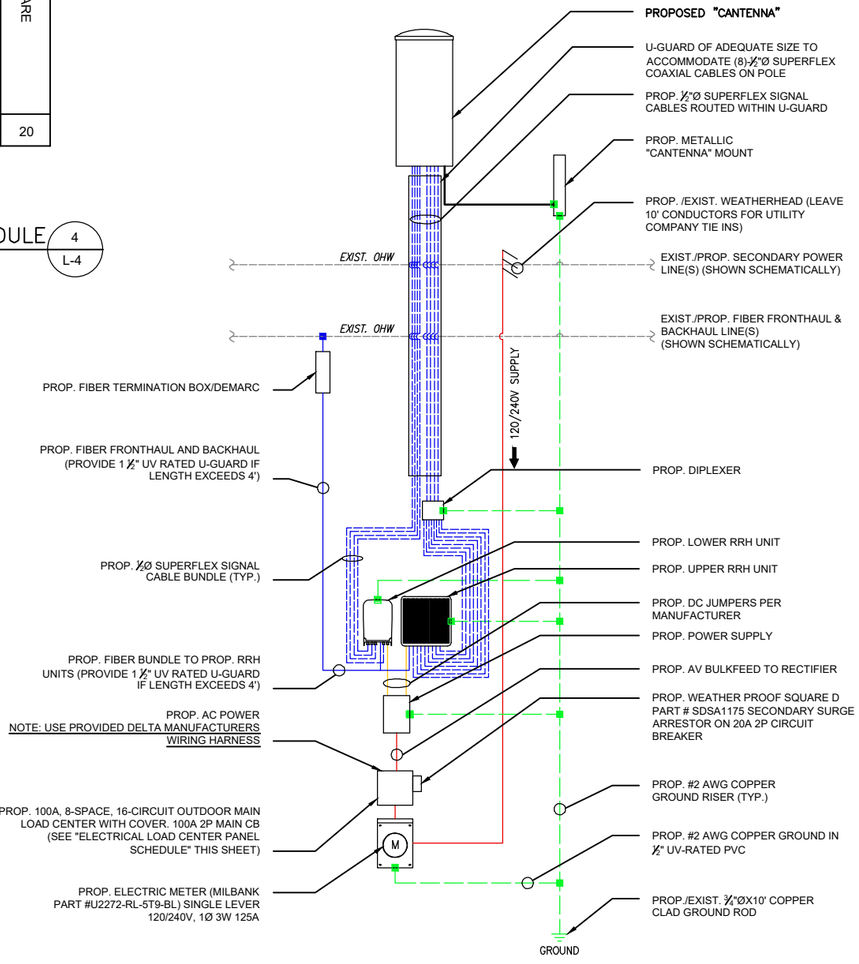
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC06_MA

UTILITY POLE #5/47
0 CAPE HIGGON WAY (POLE IS ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932239
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087897	06/12/23	05/27/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

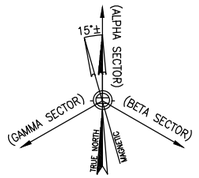
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125059
Customer Application Number	ChilmarkSC06MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 04/23/2024
Date	04/23/2024
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

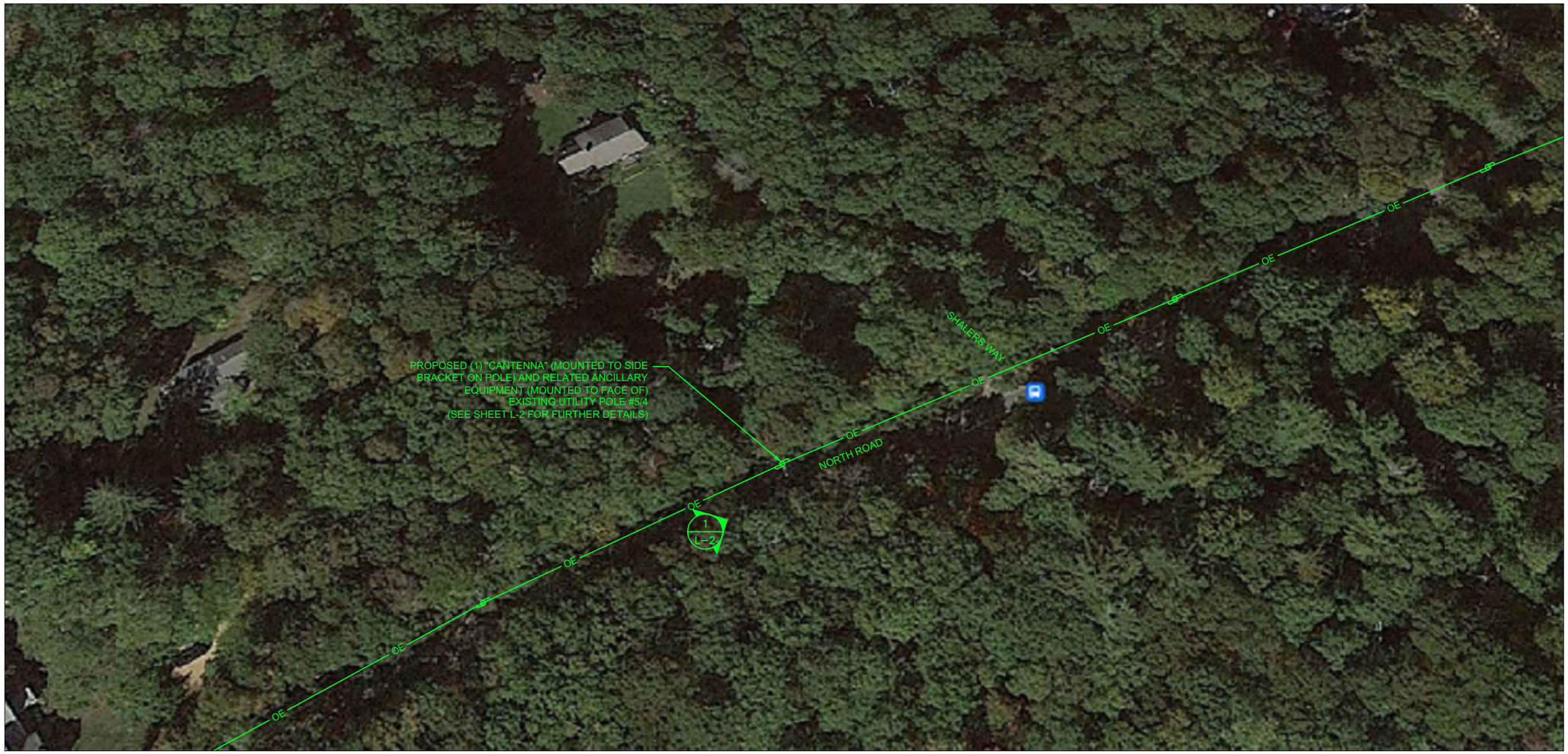
Project Location - Chilmark SC 08, North Road near 2 Shalers Way, Chilmark, MA



SITE NAME: CHILMARK_SC08_MA

CLUSTER: CHILMARK

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/4
N 41.398195° (41°-23'-53.50")
W -70.705574° (70°-42'-20.07")
APPROXIMATE GROUND ELEVATION 104.10'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

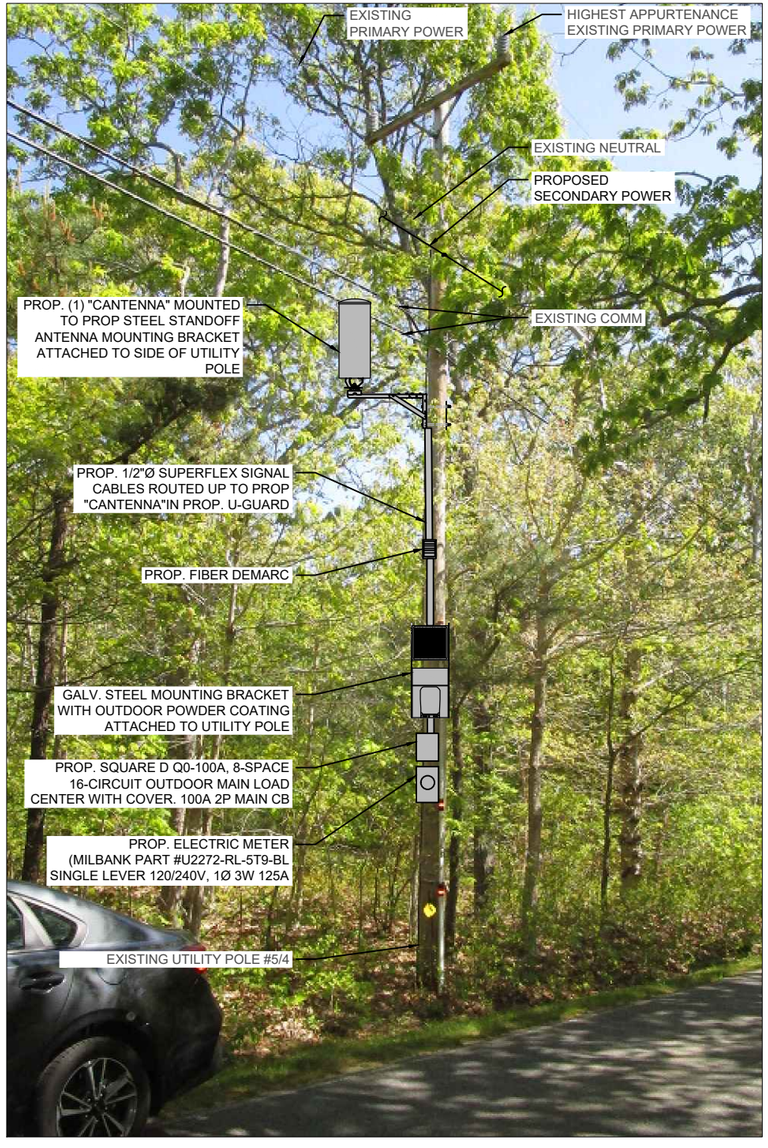
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

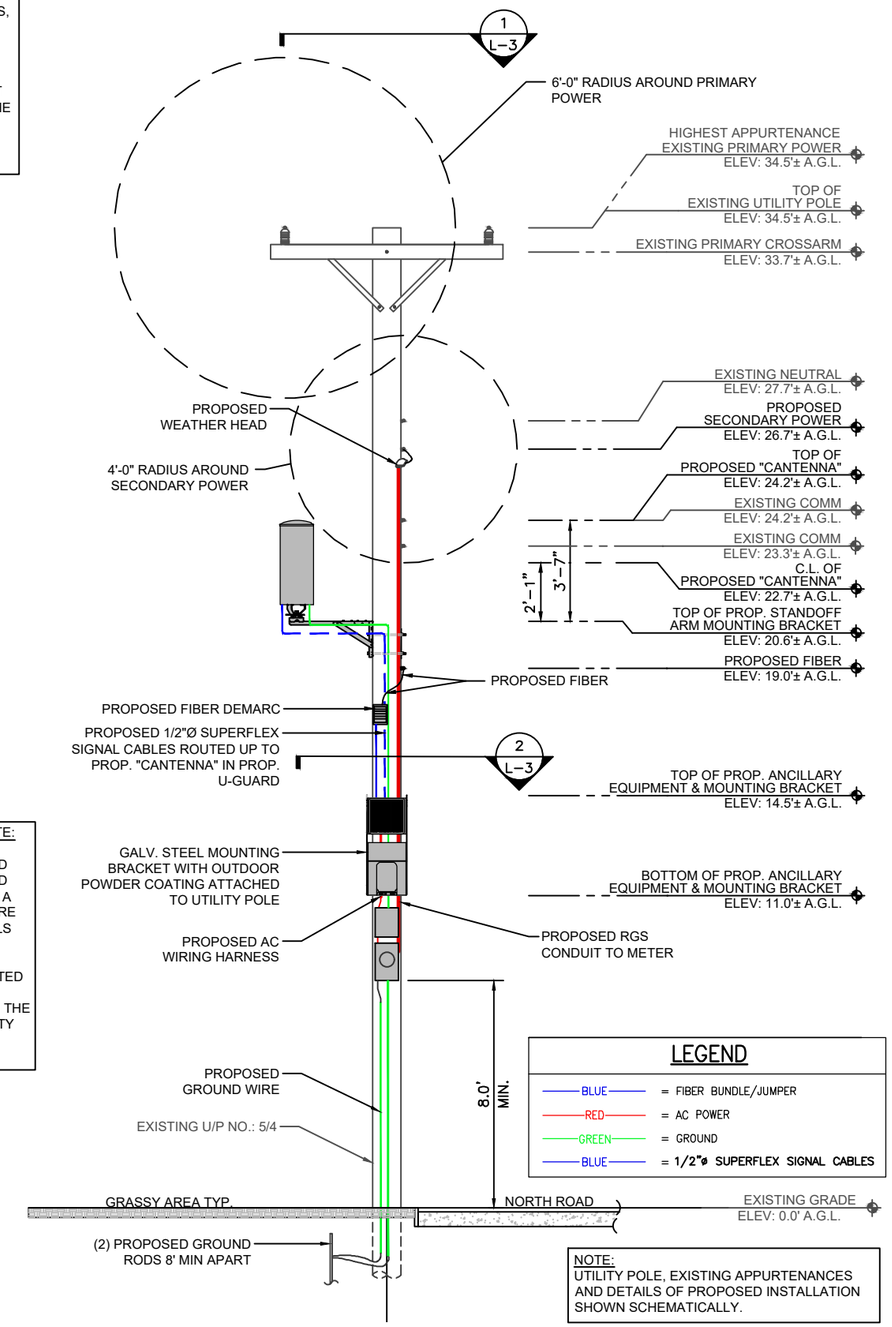


UTILITY POLE # 5/4 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 5/4 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC08_MA

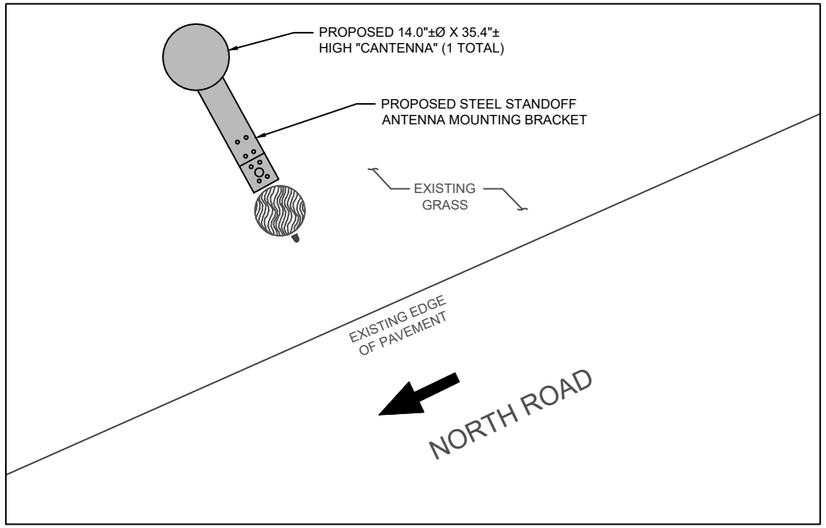
UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

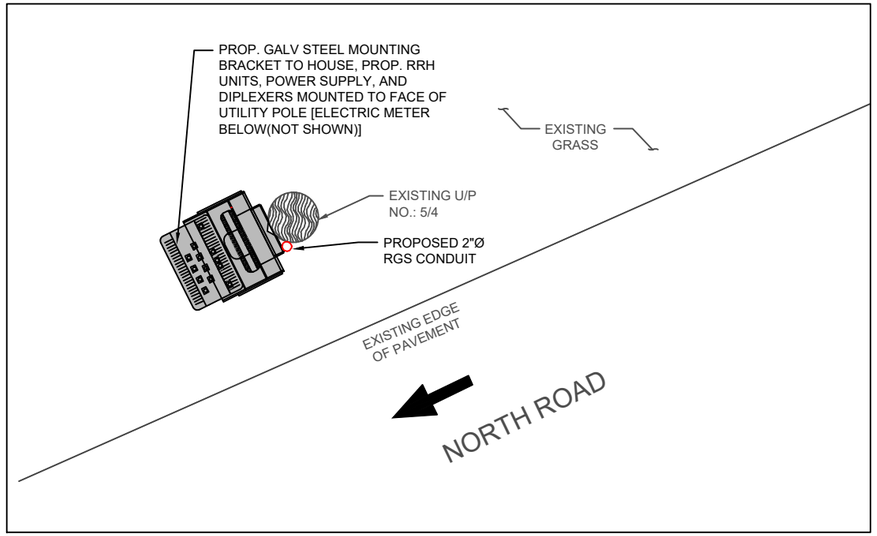
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

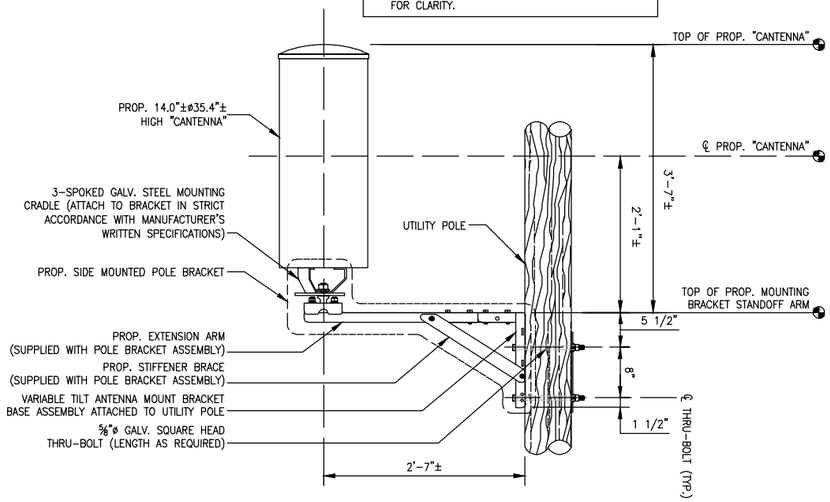
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

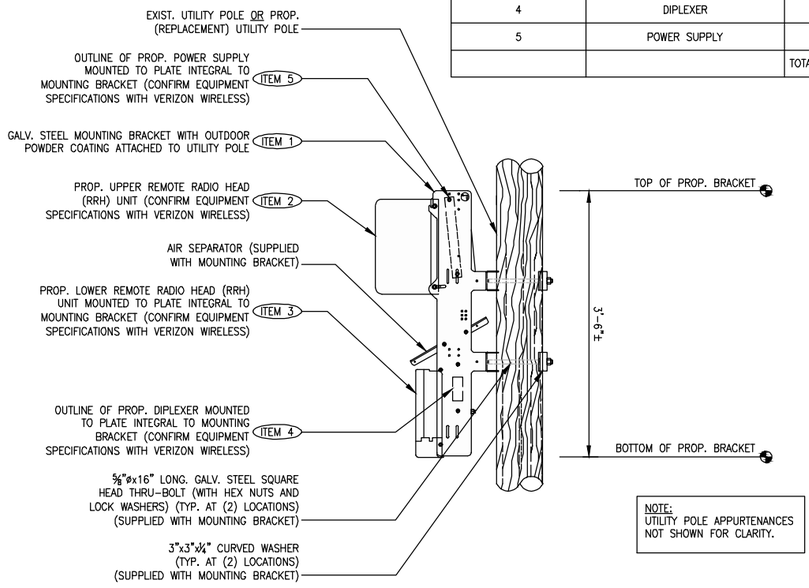
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

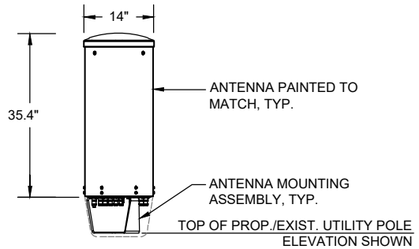
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

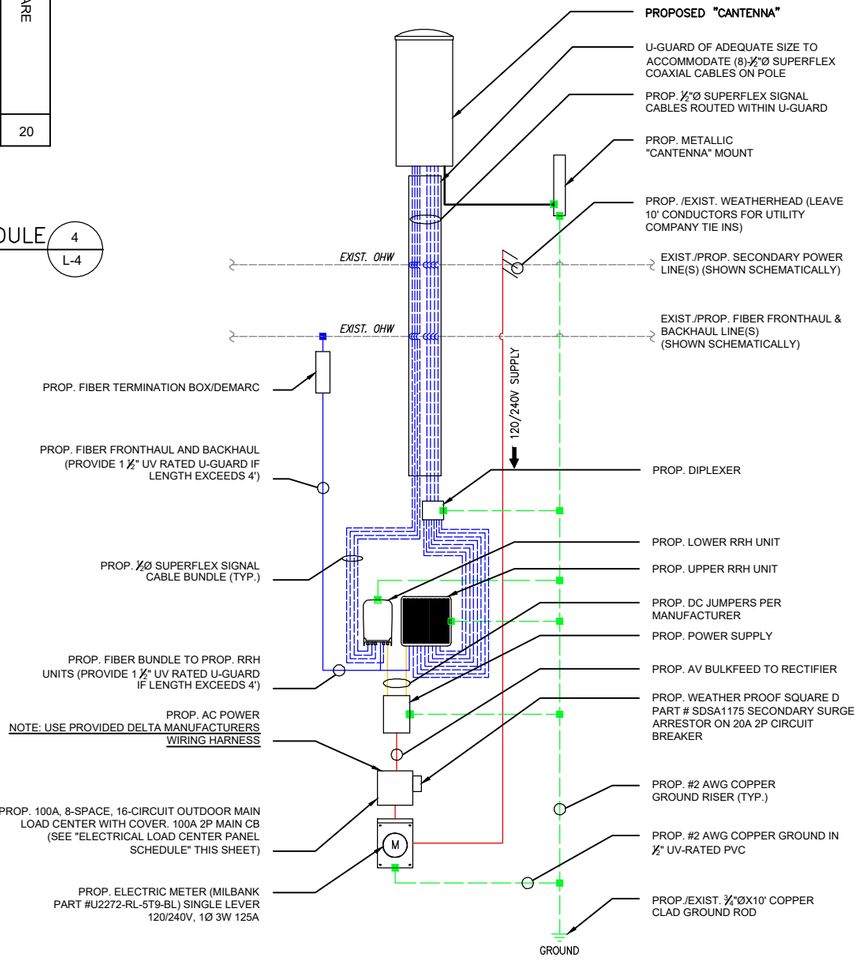
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 19, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC08_MA
FUZE Project ID: 17088031
MDG Location ID: 5000932237
Site Address: 2 Shalers Way (Pole on North Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**57.0**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
34.5'	40/4	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

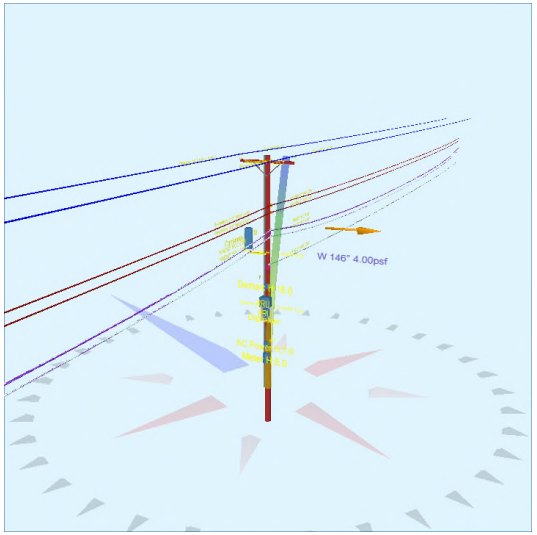
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/4**	Pole Length / Class:	**40 / 4**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**5.5**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**33.68**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**57.0**	0.0	145.6
Groundline	**57.0**	0.0	145.6
Vertical	**21.8**	21.9	145.6

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**38,553**	128.0	145.6
Groundline	**38,553**	128.0	145.6
GL Allowable	**68,571**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 128.0°

	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	499	31.4	**15,783**	40.9	**23.0**	**1,530**	873	10	**1,540**	**22.6**
Comms	764	48.0	**17,277**	44.8	**25.2**	**1,675**	1,624	18	**1,693**	**24.9**
GenericEquipments	58	3.6	**567**	1.5	**0.8**	**55**	370	4	**59**	**0.9**
Pole	167	10.5	**2,988**	7.8	**4.4**	**290**	1,654	18	**308**	**4.5**
Crossarms	100	6.3	**1,789**	4.6	**2.6**	**174**	278	3	**177**	**2.6**
Insulators	5	0.3	**150**	0.4	**0.2**	**15**	101	1	**16**	**0.2**
Pole Load	1,592	100.0	**38,553**	100.0	**56.2**	**3,738**	4,900	54	**3,793**	**55.8**
Pole Reserve Capacity			**30,018**		**43.8**	**3,062**			**3,007**	**44.2**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 128.0°

	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 (%)
Existing	723	45.4	**21,439**	55.6	**31.3**	**2,079**	2,210	24	**2,103**	**30.9**
Proposed	135	8.5	**3,792**	9.8	**5.5**	**368**	243	3	**370**	**5.4**
Vzw	567	35.6	**10,334**	26.8	**15.1**	**1,002**	792	9	**1,011**	**14.9**
Pole	167	10.5	**2,988**	7.8	**4.4**	**290**	1,654	18	**308**	**4.5**
Totals:	1,592	100.0	**38,553**	100.0	**56.2**	**3,738**	4,900	54	**3,793**	**55.8**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	34.60	48.27	0.3550	0.97	0.115	160.0	242.0	160.0	1,065	-15,303	-385	2,033	-13,655
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	34.60	48.27	0.3550	0.98	0.115	161.0	62.0	161.0	1,065	15,303	-387	2,046	16,961
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	34.60	48.27	0.3550	0.97	0.115	160.0	242.0	160.0	1,065	-15,303	350	2,033	-12,920
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	34.60	48.27	0.3550	0.98	0.115	161.0	62.0	161.0	1,065	15,303	352	2,046	17,701
Secondary	TRIPLEX 6 AWG	Existing	27.70	6.24	0.5800	2.17	0.113	161.0	62.0	161.0	357	4,106	55	1,909	6,070
Secondary	TRIPLEX 6 AWG	Existing	27.70	6.24	0.5800	2.16	0.113	160.0	242.0	160.0	357	-4,106	55	1,897	-2,153
Secondary	TRIPLEX 6 AWG	Proposed	26.70	6.30	0.5800	2.17	0.113	161.0	62.0	161.0	357	3,957	56	1,840	5,853
Secondary	TRIPLEX 6 AWG	Proposed	26.70	6.30	0.5800	2.16	0.113	160.0	242.0	160.0	357	-3,957	55	1,829	-2,073
											Totals:	**0**	**151**	**15,632**	**15,783**

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	Existing	24.20	6.44	0.3060	3.55	0.165	161.0	62.0	161.2	2,000	20,094	32	1,388	21,514
CATV	CATV .50	Existing	24.18	6.15	0.5700		0.600	161.0	62.0	161.2			60	332	393
CATV	CATV .50	Existing	24.18	6.74	0.5700		0.600	161.0	62.0	161.2			67	332	399
CATV	CATV .50	Existing	24.13	6.44	0.5700		0.600	161.0	62.0	161.2			64	332	395
Overlashed Bundle	10M	Existing	24.20	6.44	0.3060	3.51	0.165	160.0	242.0	160.2	2,000	-20,094	32	1,379	-18,683
CATV	CATV .50	Existing	24.18	6.15	0.5700		0.600	160.0	242.0	160.2			60	330	390
CATV	CATV .50	Existing	24.18	6.74	0.5700		0.600	160.0	242.0	160.2			66	330	396
CATV	CATV .50	Existing	24.13	6.44	0.5700		0.600	160.0	242.0	160.2			63	334	397
Overlashed Bundle	10M	Existing	23.30	6.50	0.3060	1.57	0.165	161.0	62.0	161.2	2,000	19,347	43	1,460	20,851
CATV	CATV .50	Existing	23.28	6.20	0.5700		0.600	161.0	62.0	161.2			72	444	515
Overlashed Bundle	10M	Existing	23.30	6.50	0.3060	1.55	0.165	160.0	242.0	160.2	2,000	-19,347	43	1,451	-17,852
CATV	CATV .50	Existing	23.28	6.20	0.5700		0.600	160.0	242.0	160.2			71	441	512
Overlashed Bundle	1/4" EHS	Vzw	19.00	6.75	0.2500	2.16	0.121	161.0	62.0	161.0	800	6,311	21	1,261	7,593
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	18.96	6.75	0.7560		0.208	161.0	62.0	161.0			25	432	456
											Totals:	**6,311**	**720**	**10,246**	**17,277**

GenericEquipment		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	Meter	Vzw	5.00	7.47	242.0	0.0	16.25	18.50	4.80	--	10.00	-8	35	27
Box	AC Power	Vzw	7.00	7.09	242.0	0.0	9.93	12.65	4.27	--	8.88	-5	30	26
Box	RRU	Vzw	13.83	12.81	242.0	0.0	102.50	17.30	11.50	--	17.30	-72	193	122
Box	Diplexer	Vzw	11.17	8.67	242.0	0.0	7.60	4.80	3.30	--	7.90	-4	16	12
Box	RRU	Vzw	12.17	9.47	242.0	0.0	21.40	13.90	4.80	--	9.80	-10	66	56
Box	Demarc	Vzw	16.00	5.77	242.0	0.0	2.00	9.60	2.70	--	7.00	-1	34	33
Cylinder	Cantenna Antenna	Vzw	22.68	36.78	60.0	0.0	35.00	35.40	--	14.00	--	-193	484	291
											Totals:	**-292**	**859**	**567**

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	Existing	33.70	5.14	242.0	242.0	53.00	4.50	3.50	96.00	-18	91	73
Normal	Bracket	Vzw	12.50	-7.12	62.0	62.0	28.00	42.00	0.50	21.00	-13	58	45
Normal	Riser	Vzw	17.25	5.85	315.0	315.0	37.40	414.00	3.00	3.00	-35	1,625	1,589
Offset	Standoff	Vzw	20.60	1.34	60.0	60.0	28.00	1.50	5.38	31.00	67	14	82
										Totals:	**1**	**1,788**	**1,789**

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)

Pin	Pin Insulator - 10 kV	Existing	33.89	48.00	325.9	0.0	7.00	4.50	8.50	0	62	62
Pin	Pin Insulator - 10 kV	Existing	33.89	-48.00	158.1	0.0	7.00	4.50	8.50	0	62	62
Spool	Spool 3"	Existing	27.70	0.00	158.0	158.0	2.00	3.00	3.19	0	13	13
Spool	Spool 3"	Proposed	26.70	0.00	158.0	158.0	2.00	3.00	3.19	0	12	12
Bolt	1.25" CATV on 10M strand	Existing	24.20	0.00	158.0	158.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	23.30	0.00	158.0	158.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	234.5	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	242.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	234.5	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	21.10	-32.88	332.1	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	19.00	0.00	62.0	62.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**150**	**150**

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	21.95	33.59	9.86	7.33	6.69	10.73	1.60e+6	60.00	57.00	34.50	22,442	**224.75**	**4.59**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/27/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC08MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC08MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole, 1 Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 2/5/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC08MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC08MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/27/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC08MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
2 SHALERS WAY (POLE ON NORTH ROAD)		N/A	5/4			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/27/24 ***WO Received Date:*** _____

Service Address: Street: 2 SHALERS WAY Suite: ____ Town Chilmark Zip: 02535
(POLE ON NORTH ROAD)

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will reguire 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

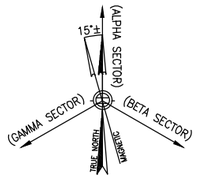
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

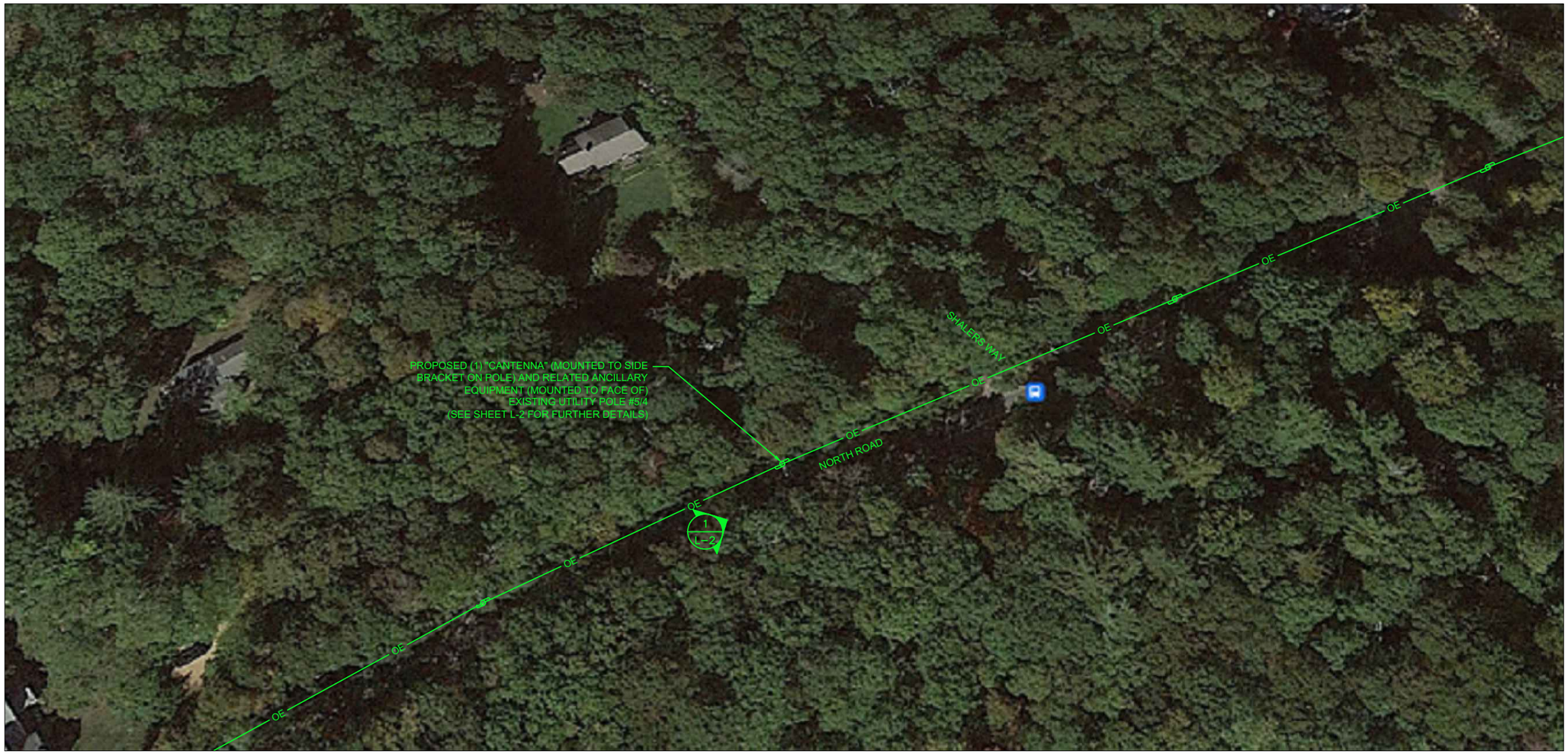
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC08_MA

CLUSTER: CHILMARK

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/4
N 41.398195° (41°-23'-53.50")
W -70.705574° (70°-42'-20.07")
APPROXIMATE GROUND ELEVATION 104.10'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

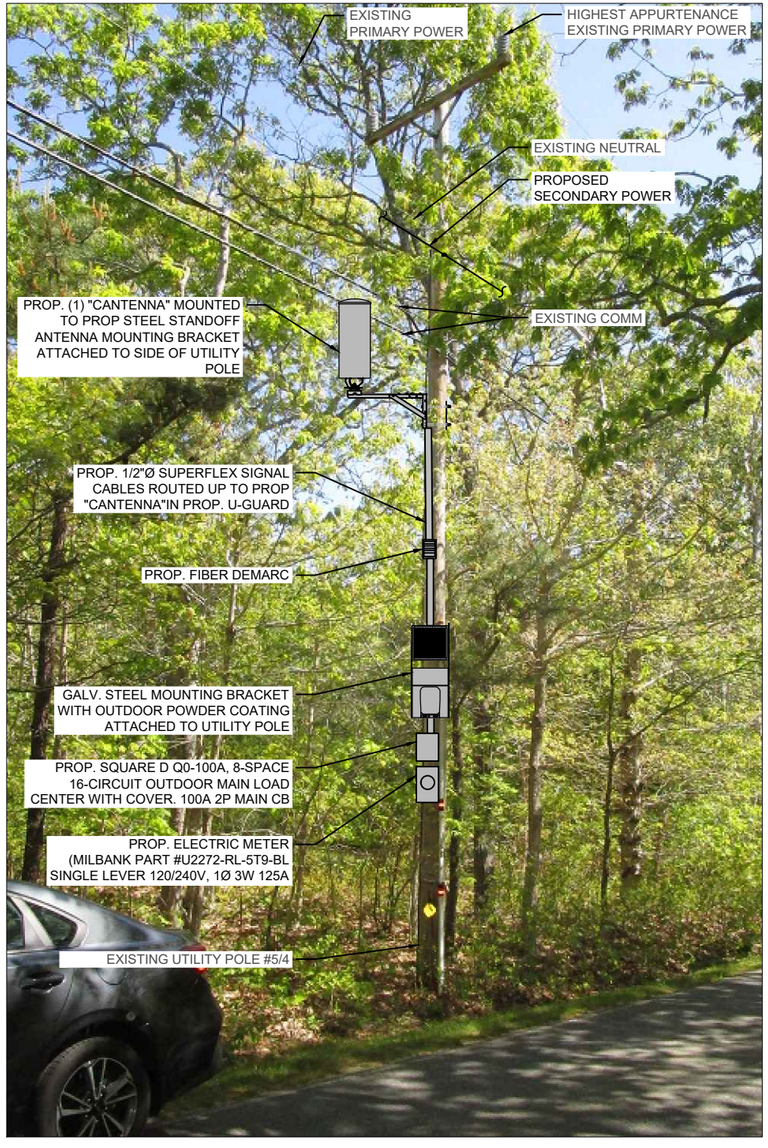
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

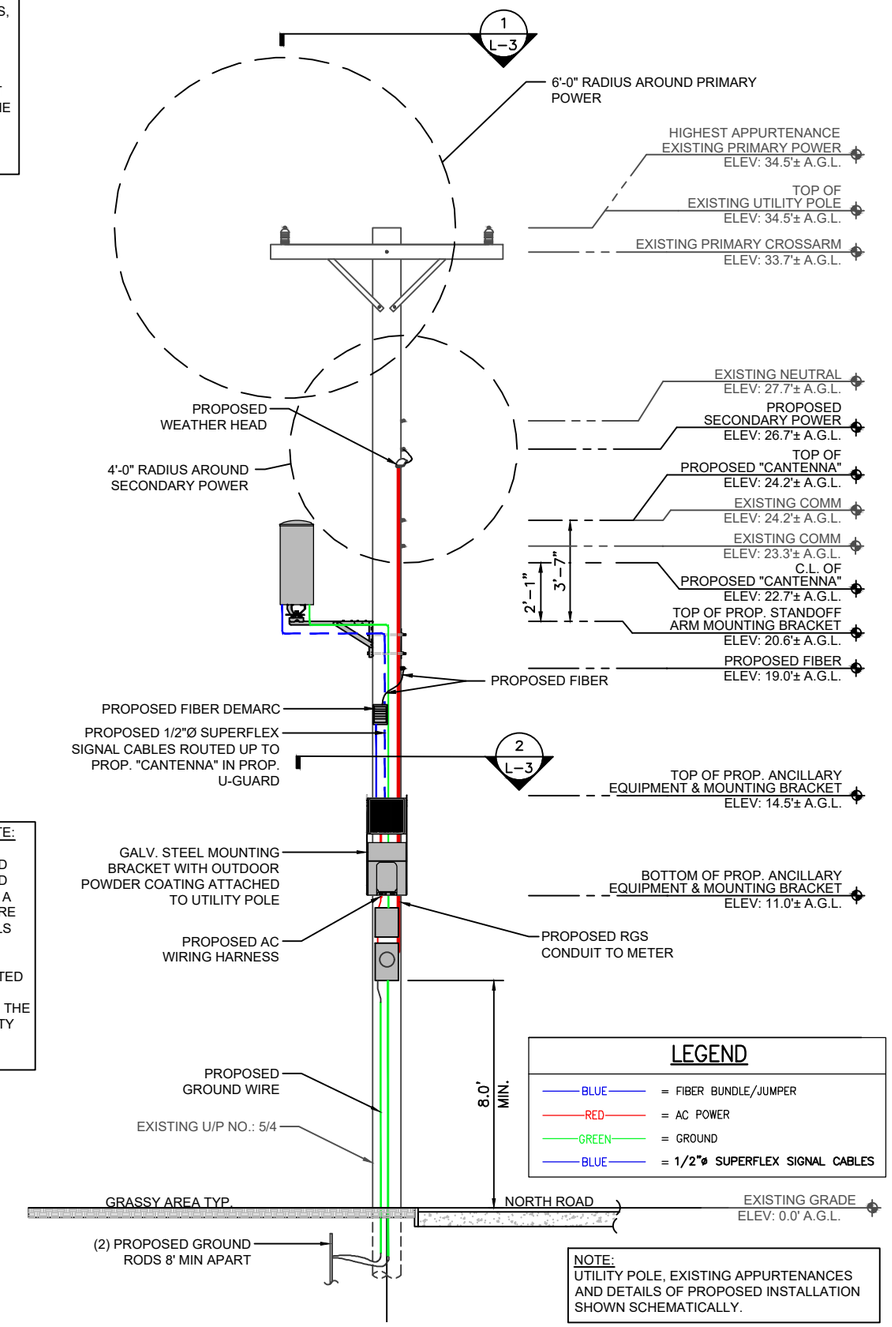


UTILITY POLE # 5/4 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 5/4 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC08_MA

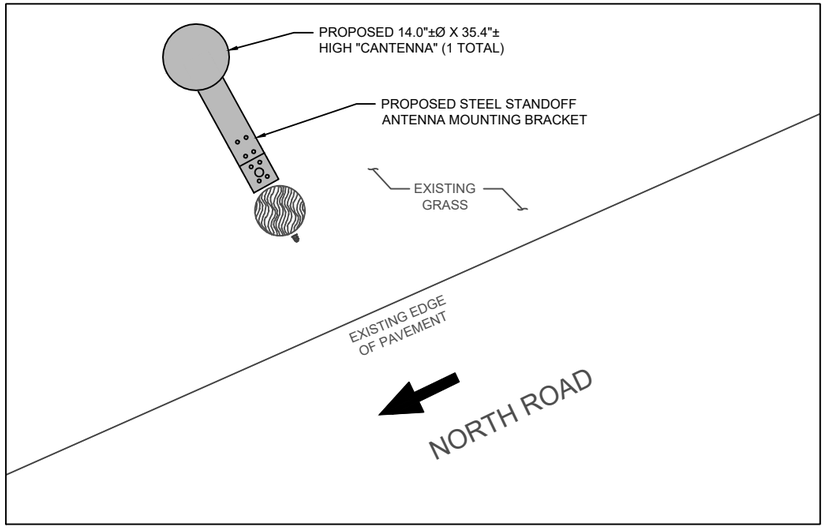
UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

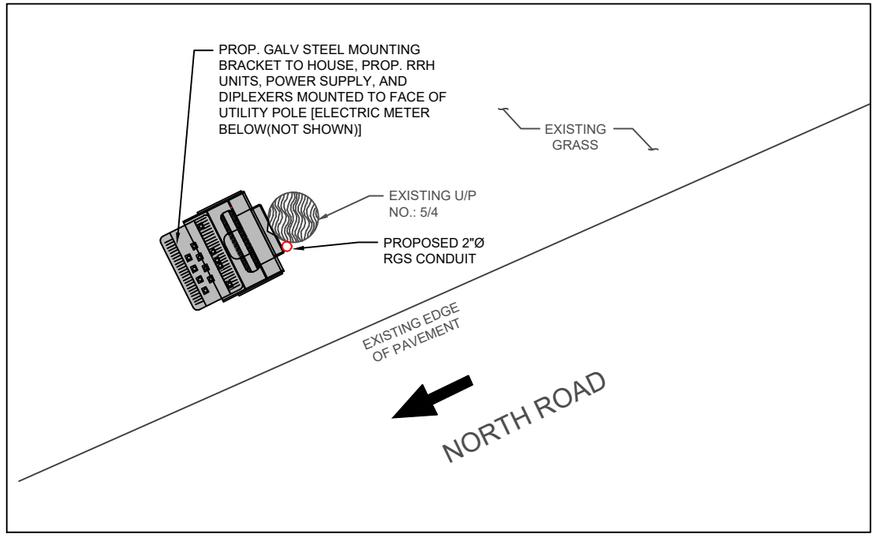
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

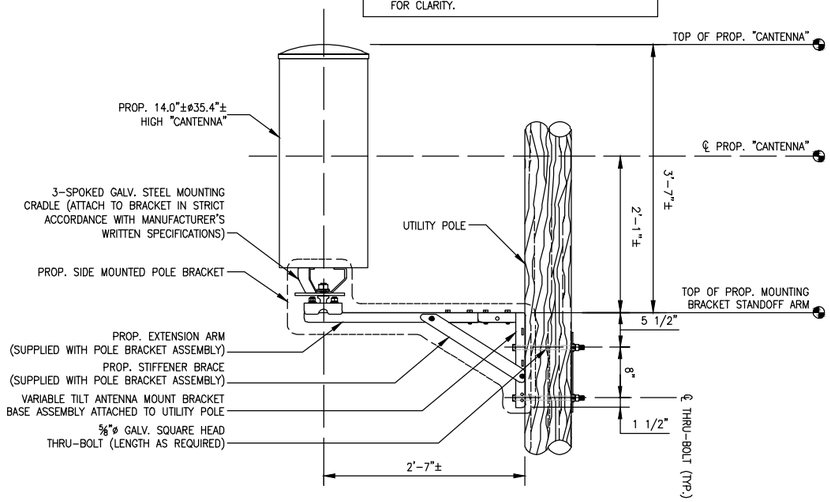
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

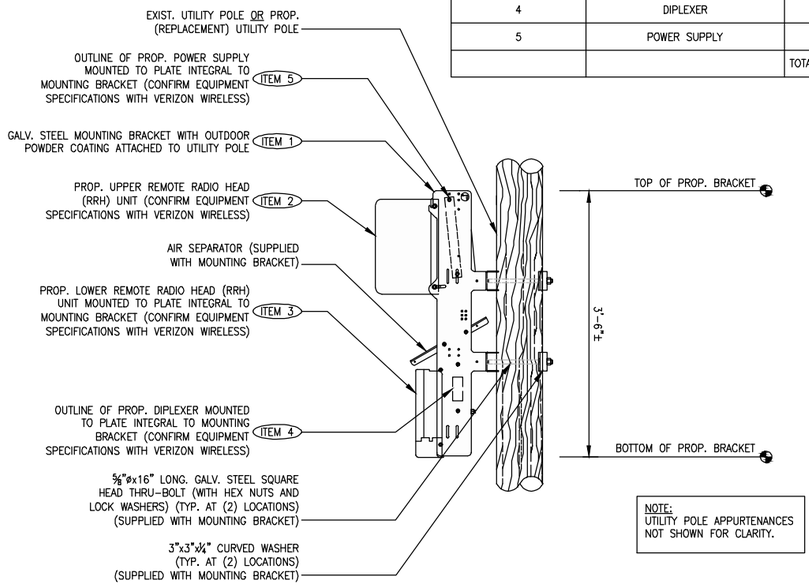
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

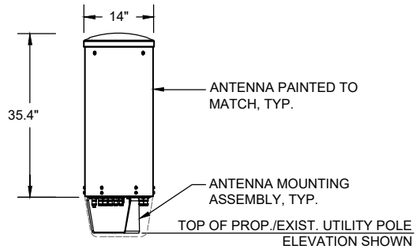
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

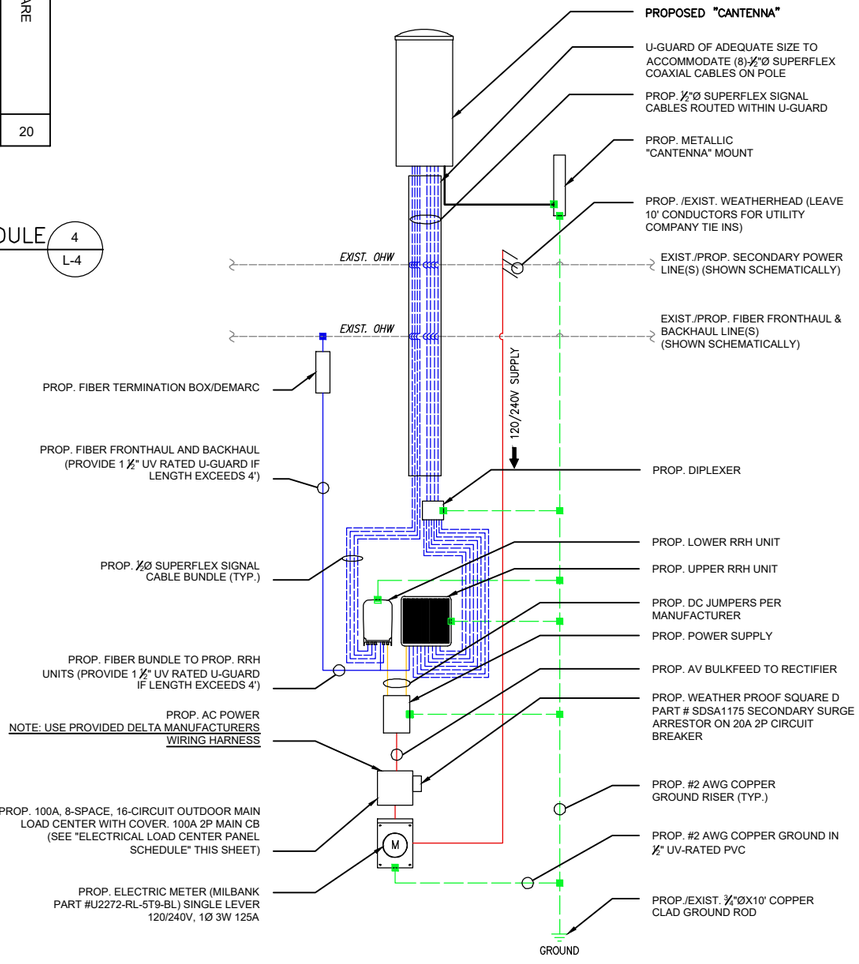
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC08_MA

UTILITY POLE #5/4
2 SHALERS WAY (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932237
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088031	06/12/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

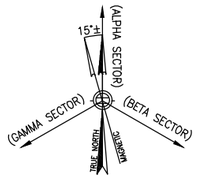
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125061
Customer Application Number	ChilmarkSC08MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	
Signature	
Date	03/25/2024
Title	
Phone	

Project Location - Chilmark SC 09, near 349 Middle Road, Chilmark, MA



SITE NAME: CHILMARK_SC09_MA

CLUSTER: CHILMARK

UTILITY POLE #5/83
349 MIDDLE ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/83
N 41.350551° (41°-21'-01.98")
W 70.735914° (70°-44'-09.29")
APPROXIMATE GROUND ELEVATION 159.30'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC09_MA
UTILITY POLE #5/83
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

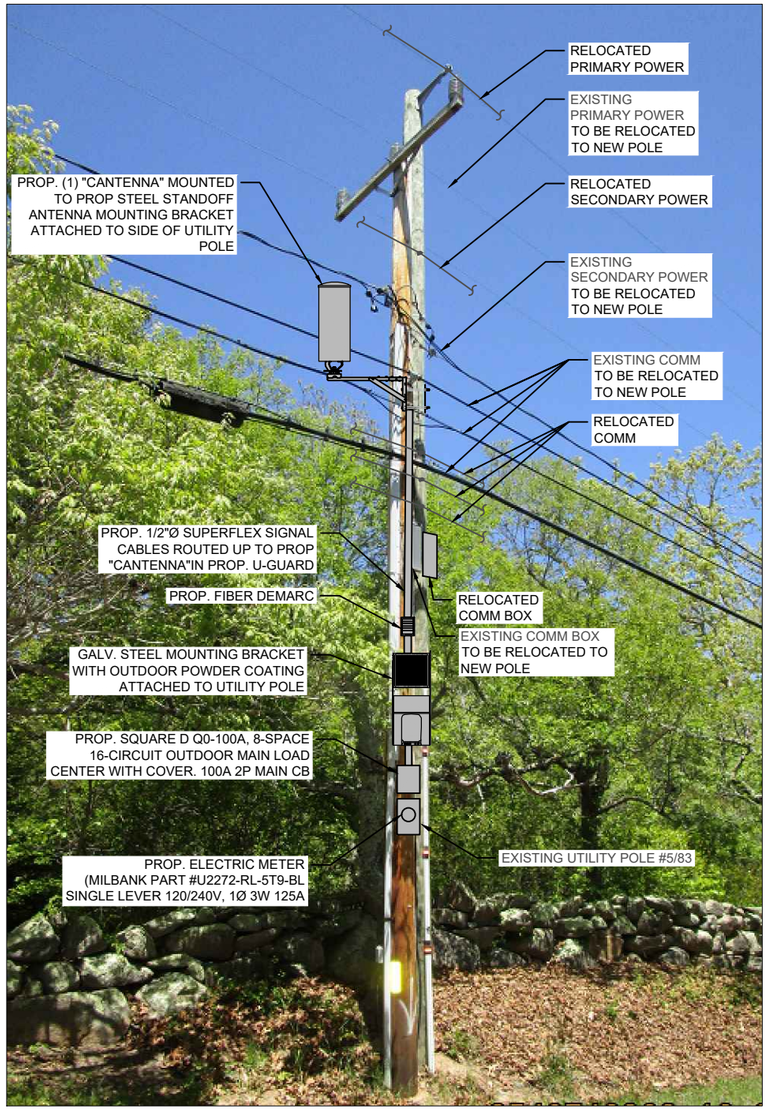
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

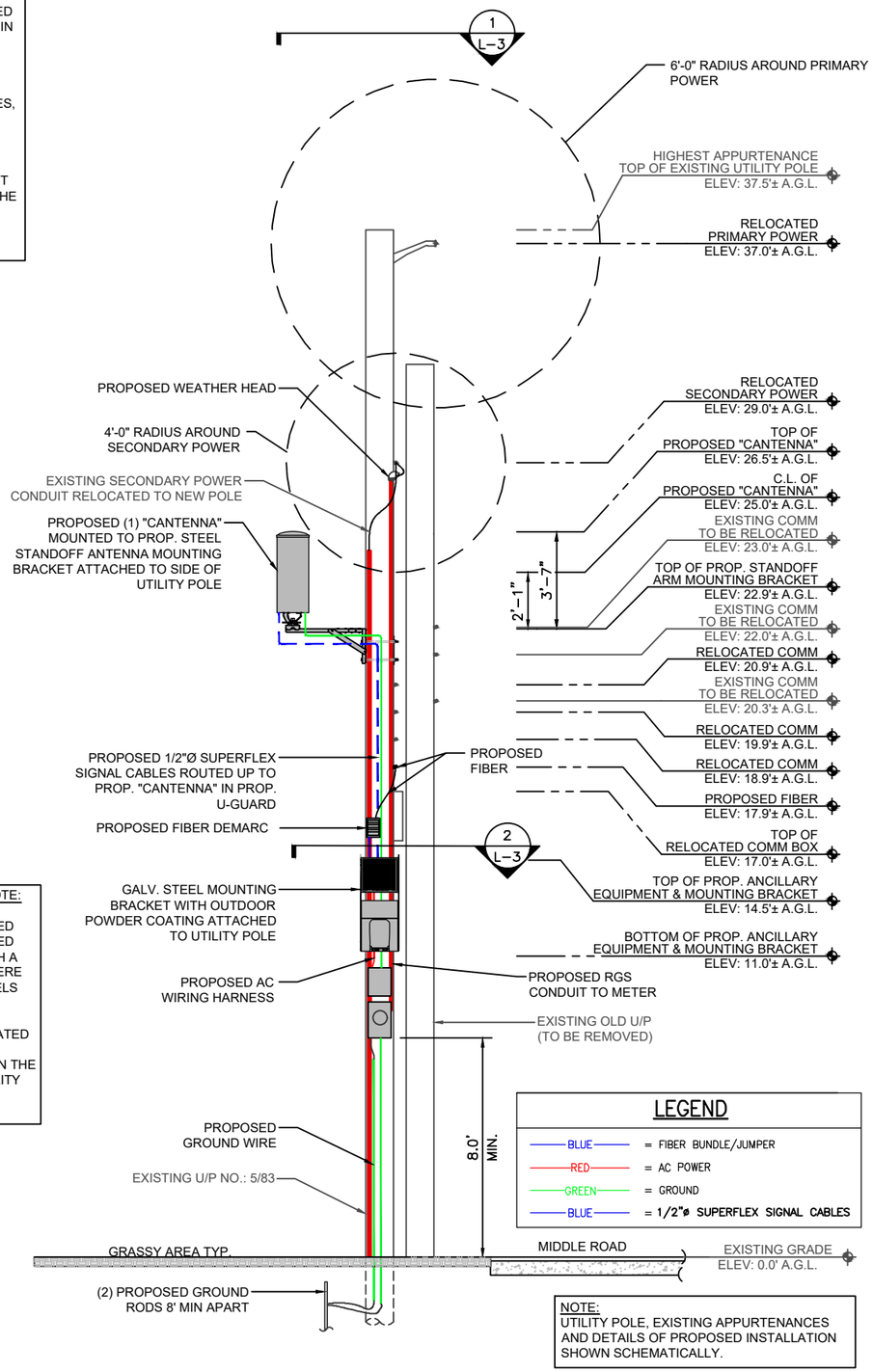


UTILITY POLE # 5/83 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/83 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC09_MA

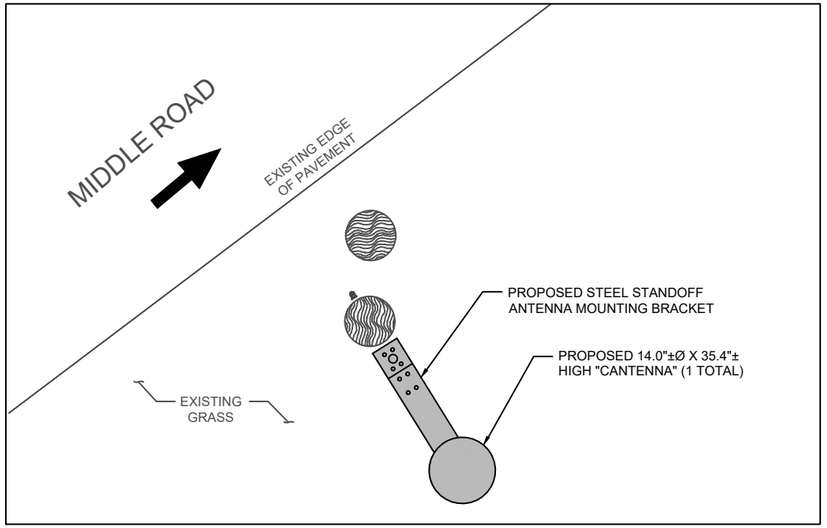
UTILITY POLE #5/83
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

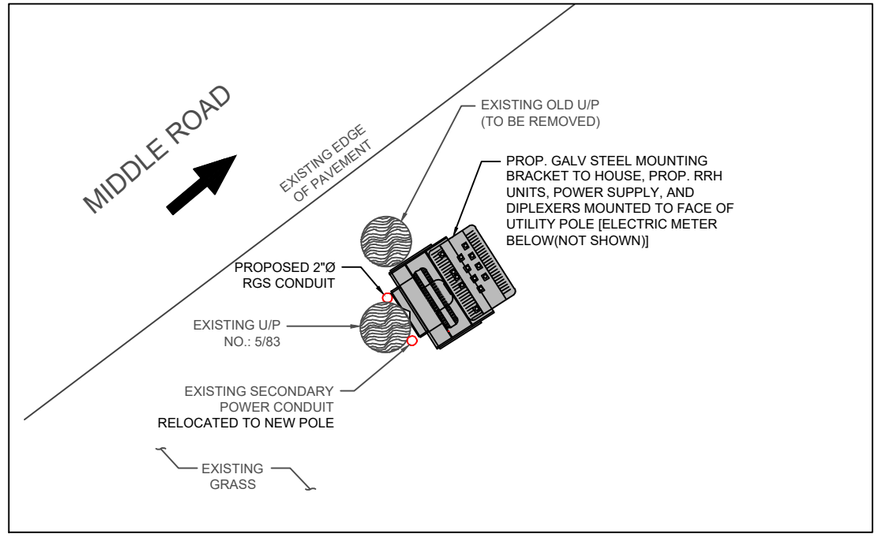
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

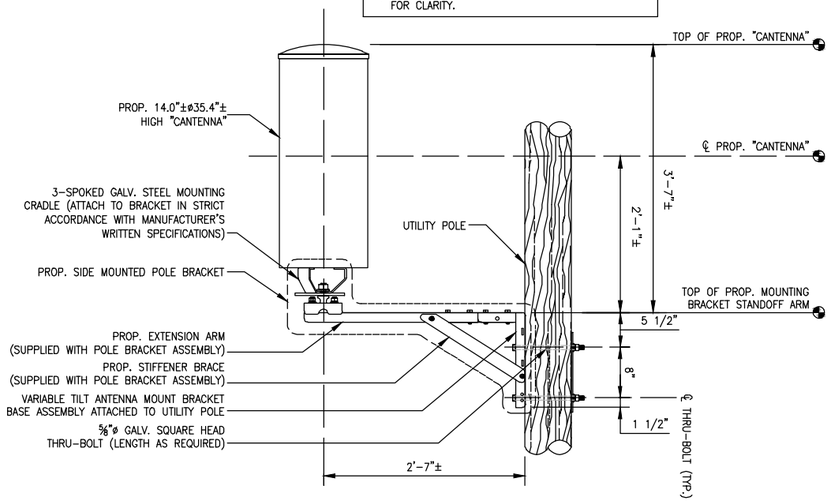
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

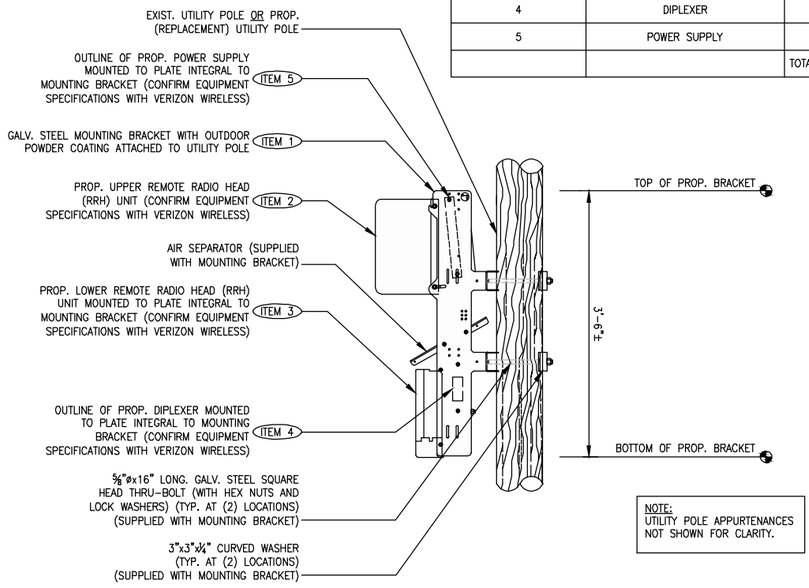
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC09_MA

UTILITY POLE #5/83
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

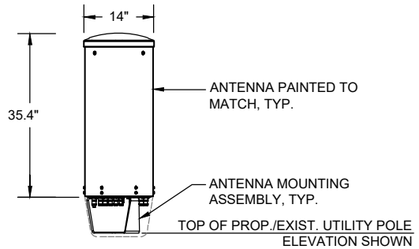
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

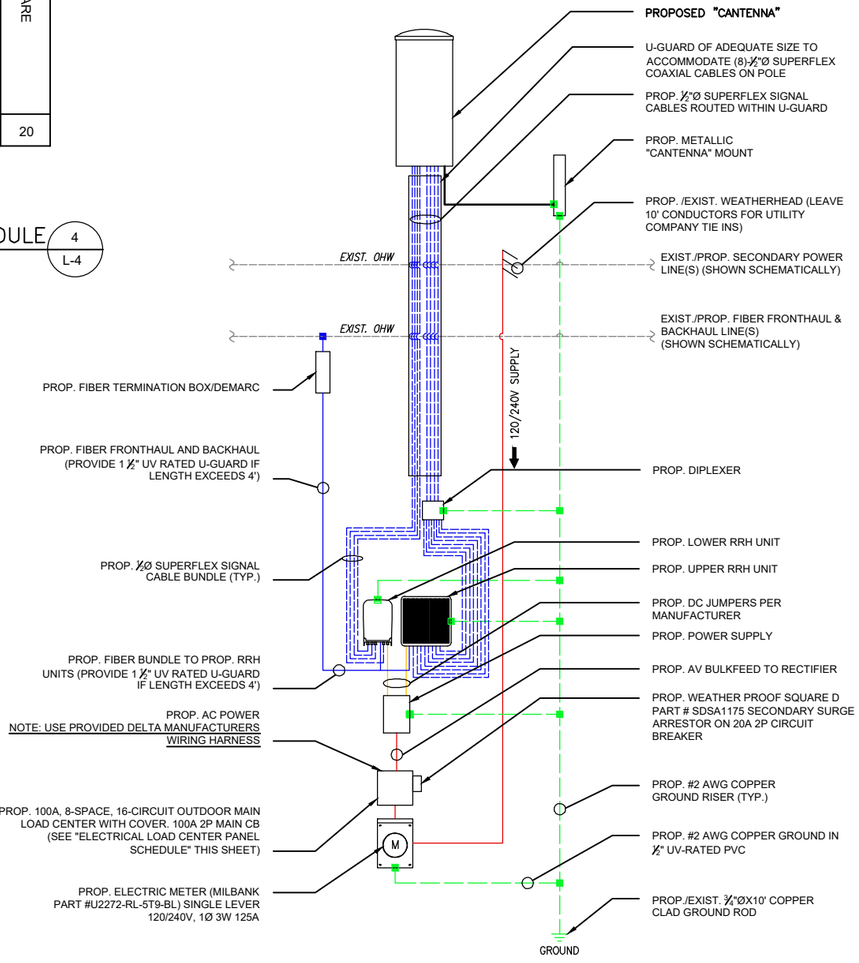
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC09_MA

UTILITY POLE #5/83
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 20, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC09_MA
FUZE Project ID: 17087999
MDG Location ID: 5000932238
Site Address: 349 Middle Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**42.8**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
37.5'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

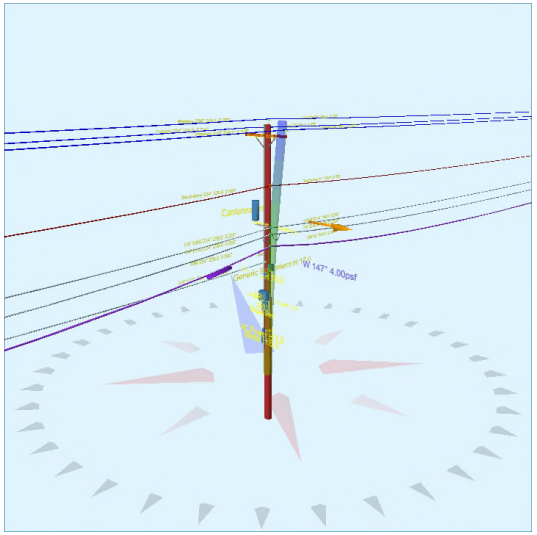
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/83**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**7.5**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**42.38**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**42.8**	0.0	147.0
Groundline	**42.8**	0.0	147.0
Vertical	**12.6**	22.0	147.0

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**57,419**	159.9	147.0
Groundline	**57,419**	159.9	147.0
GL Allowable	**136,616**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 159.9°

	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	647	29.3	**23,613**	41.1	**17.3**	**1,140**	1,059	7	**1,147**	**16.9**
Comms	1,146	51.9	**25,884**	45.1	**19.0**	**1,249**	2,625	18	**1,268**	**18.6**
GenericEquipments	67	3.0	**964**	1.7	**0.7**	**47**	379	3	**49**	**0.7**
Pole	236	10.7	**4,599**	8.0	**3.4**	**222**	2,890	20	**242**	**3.6**
Crossarms	107	4.9	**2,136**	3.7	**1.6**	**103**	278	2	**105**	**1.5**
Insulators	6	0.3	**222**	0.4	**0.2**	**11**	120	1	**12**	**0.2**
Pole Load	2,209	100.0	**57,419**	100.0	**42.0**	**2,771**	7,351	51	**2,823**	**41.5**
Pole Reserve Capacity			**79,197**		**58.0**	**4,029**			**3,977**	**58.5**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 159.9°

	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 (%)
Existing	1,488	67.4	**43,979**	76.6	**32.2**	**2,123**	3,646	26	**2,148**	**31.6**
Vzw	485	22.0	**8,840**	15.4	**6.5**	**427**	815	6	**432**	**6.4**
Pole	236	10.7	**4,599**	8.0	**3.4**	**222**	2,890	20	**242**	**3.6**
Totals:	2,209	100.0	**57,419**	100.0	**42.0**	**2,771**	7,351	51	**2,823**	**41.5**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.21	0.00	0.3550	1.18	0.115	180.0	54.0	180.0	1,065	-11,475	0	2,693	-8,781
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.21	0.00	0.3550	1.74	0.115	229.0	234.0	229.0	1,065	11,475	0	3,427	14,901
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	36.90	48.39	0.3550	1.74	0.115	229.0	234.0	229.0	1,065	11,081	-538	3,309	13,852
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	36.90	48.39	0.3550	1.18	0.115	180.0	54.0	180.0	1,065	-11,081	-423	2,601	-8,902
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	36.90	48.39	0.3550	1.74	0.115	229.0	234.0	229.0	1,065	11,081	579	3,309	14,968
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	36.90	48.39	0.3550	1.18	0.115	180.0	54.0	180.0	1,065	-11,081	455	2,601	-8,025
Secondary	TRIPLEX 6 AWG	Existing	29.00	7.35	0.5800	2.51	0.113	180.0	54.0	180.0	357	-2,918	82	2,383	-453

Secondary	TRIPLEX 6 AWG	Existing	29.00	7.35	0.5800	3.48	0.113	229.0	234.0	229.1	357	2,918	104	3,032	6,054
											Totals:	**0**	**259**	**23,355**	**23,613**

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	1/4" EHS	Existing	23.00	7.74	0.2500	2.46	0.121	180.0	54.0	180.0	800	-5,187	63	1,769	-3,354
Telco	26 GA 50 PR (0.58)	Existing	22.96	7.74	0.5800		0.180	180.0	54.0	180.0			70	572	642
Overlashed Bundle	1/4" EHS	Existing	23.00	7.74	0.2500	3.71	0.121	229.0	234.0	229.1	800	5,187	80	2,251	7,518
Telco	26 GA 50 PR (0.58)	Existing	22.96	7.74	0.5800		0.180	229.0	234.0	229.1			89	728	817
Overlashed Bundle	1/4" EHS	Existing	22.00	7.81	0.2500	3.26	0.121	180.0	54.0	180.1	800	-4,961	52	1,590	-3,319
Telco	26 GA 50 PR (0.58)	Existing	21.97	7.52	0.5800		0.180	180.0	54.0	180.1			56	446	502
Telco	26 GA 50 PR (0.58)	Existing	21.97	8.10	0.5800		0.180	180.0	54.0	180.1			61	451	511
Overlashed Bundle	1/4" EHS	Existing	22.00	7.81	0.2500	4.96	0.121	229.0	234.0	229.2	800	4,961	66	2,023	7,050
Telco	26 GA 50 PR (0.58)	Existing	21.97	7.52	0.5800		0.180	229.0	234.0	229.2			71	567	638
Telco	26 GA 50 PR (0.58)	Existing	21.97	8.10	0.5800		0.180	229.0	234.0	229.2			77	572	649
Overlashed Bundle	10M	Existing	20.30	7.92	0.3060	6.98	0.165	229.0	234.0	229.7	2,000	11,444	95	2,197	13,737
CATV	CATV .50	Existing	20.28	7.61	0.5700		0.600	229.0	234.0	229.7			151	853	1,004
CATV	CATV 1.0	Existing	20.25	8.50	1.3300		1.200	229.0	234.0	229.7			261	1,226	1,487
Overlashed Bundle	10M	Existing	20.30	7.92	0.3060	4.43	0.165	180.0	54.0	180.3	2,000	-11,444	75	1,727	-9,642
CATV	CATV .50	Existing	20.28	7.61	0.5700		0.600	180.0	54.0	180.3			119	671	789
CATV	CATV 1.0	Existing	20.25	8.50	1.3300		1.200	180.0	54.0	180.3			205	670	875
Overlashed Bundle	1/4" EHS	Vzw	17.90	8.08	0.2500	2.62	0.121	180.0	234.0	180.1	800	4,037	20	1,417	5,473
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	17.86	8.08	0.7560		0.208	180.0	234.0	180.1			22	485	507
											Totals:	**4,037**	**1,632**	**20,215**	**25,884**

GenericEquipment		**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	Generic Equipment	Existing	17.00	7.64	145.0	0.0	5.00	12.00	4.00	--	10.00	6	159	165
Box	RRU	Vzw	12.83	11.45	234.0	0.0	102.50	17.30	11.50	--	17.30	68	180	248
Box	RRU	Vzw	11.17	8.11	234.0	0.0	21.40	13.90	4.80	--	9.80	11	61	72
Box	Diplexer	Vzw	10.17	7.31	234.0	0.0	7.60	4.80	3.30	--	7.90	2	15	17
Box	AC Power	Vzw	7.00	8.42	234.0	0.0	9.93	12.65	4.27	--	8.88	4	30	34
Box	Meter	Vzw	6.00	8.75	234.0	0.0	16.25	18.50	4.80	--	10.00	6	42	49
Box	Demarc	Vzw	16.00	7.05	234.0	0.0	2.00	9.60	2.70	--	7.00	1	33	34
Cylinder	Cantenna Antenna	Vzw	24.98	36.80	60.0	0.0	35.00	35.40	--	14.00	--	-208	555	346
											Totals:	**-111**	**1,075**	**964**

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	Existing	36.00	6.15	234.0	234.0	53.00	4.50	3.50	96.00	15	62	76

Normal	Bracket	Vzw	11.50	-5.76	54.0	54.0	28.00	42.00	0.50	21.00	7	30	38
Normal	Riser	Vzw	18.75	7.02	315.0	315.0	37.40	450.00	3.00	3.00	-39	1,980	1,941
Offset	Standoff	Vzw	22.90	2.44	60.0	60.0	28.00	1.50	5.38	31.00	68	14	82
										Totals:	**51**	**2,085**	**2,136**

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)**
Pin	Pin Insulator - 10 kV	Existing	37.50	0.00	0.0	0.0	7.00	4.50	8.50	0	71	71
Pin	Pin Insulator - 10 kV	Existing	36.19	48.00	316.7	0.0	7.00	4.50	8.50	0	68	68
Pin	Pin Insulator - 10 kV	Existing	36.19	-48.00	151.3	0.0	7.00	4.50	8.50	0	68	68
Spool	Spool 3"	Existing	29.00	0.00	145.0	145.0	2.00	3.00	3.19	0	14	14
Bolt	Three Bolt	Existing	23.00	0.00	145.0	145.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	22.00	0.00	145.0	145.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.30	0.00	145.0	145.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.50	-9.06	224.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	9.83	2.94	224.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.50	-24.07	234.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	23.40	-32.88	333.8	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	17.90	0.00	234.0	234.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**222**	**222**

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	21.98	33.19	12.54	8.03	8.60	13.50	1.60e+6	60.00	57.00	37.50	58,498	**583.43**	**7.94**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/27/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC09MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC09MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 3/19/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC09MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC09MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/27/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM															
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:			
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:			
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC09MA			
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**			
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION		
TEL RTE / STREET NAME		***Tel***	***El***	***F/C***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S /	* Height	
List one pole per line				***P.S.***	***Tel***	***El***	***Tel***	***El***	***Tel***	***El***			REMARKS	of Att.	
				Riser											
349 MIDDLE ROAD		N/A	10/16			X								*	
														*	
														*	
														*	
														*	
														*	
TOTALS:						1									

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/27/24 ***WO Received Date:*** _____

Service Address: Street: 349 MIDDLE ROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will reguire 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

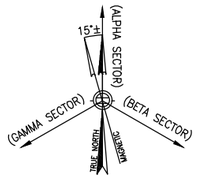
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC09_MA

CLUSTER: CHILMARK

UTILITY POLE #10/16
349 MIDDLE ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/83
N 41.350551° (41°-21'-01.98")
W 70.735914° (70°-44'-09.29")
APPROXIMATE GROUND ELEVATION 159.30'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC09_MA
UTILITY POLE #10/16
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

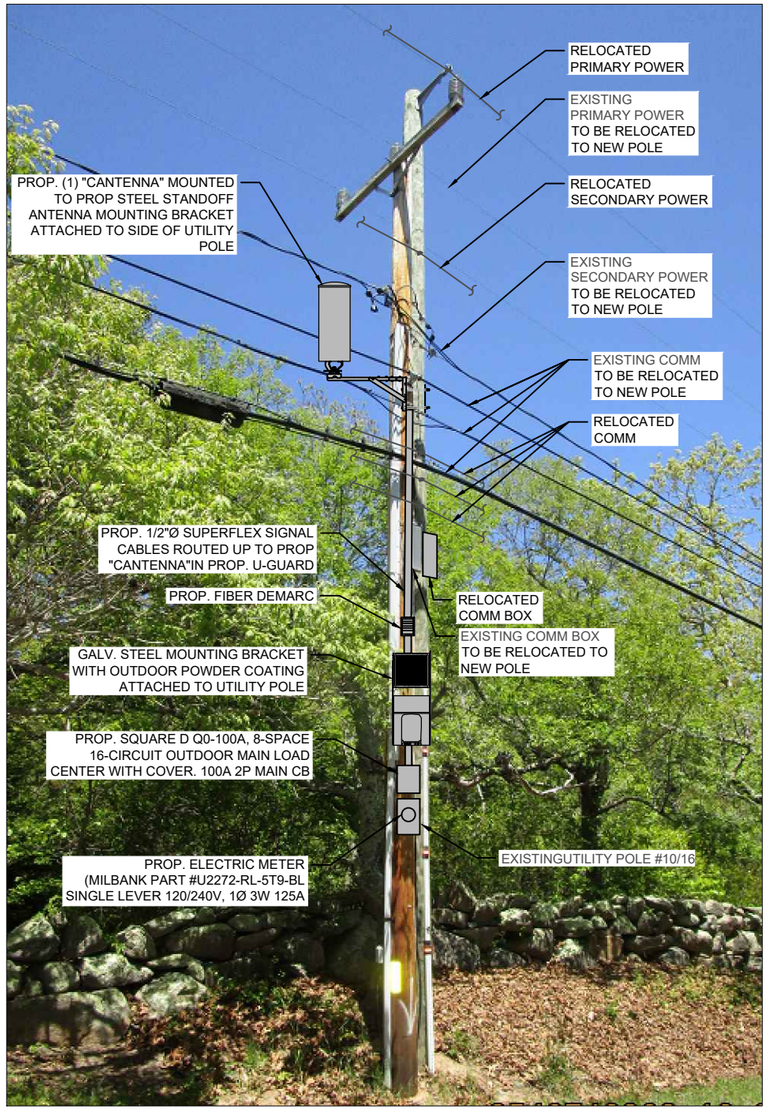
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23

GENERAL NOTES:

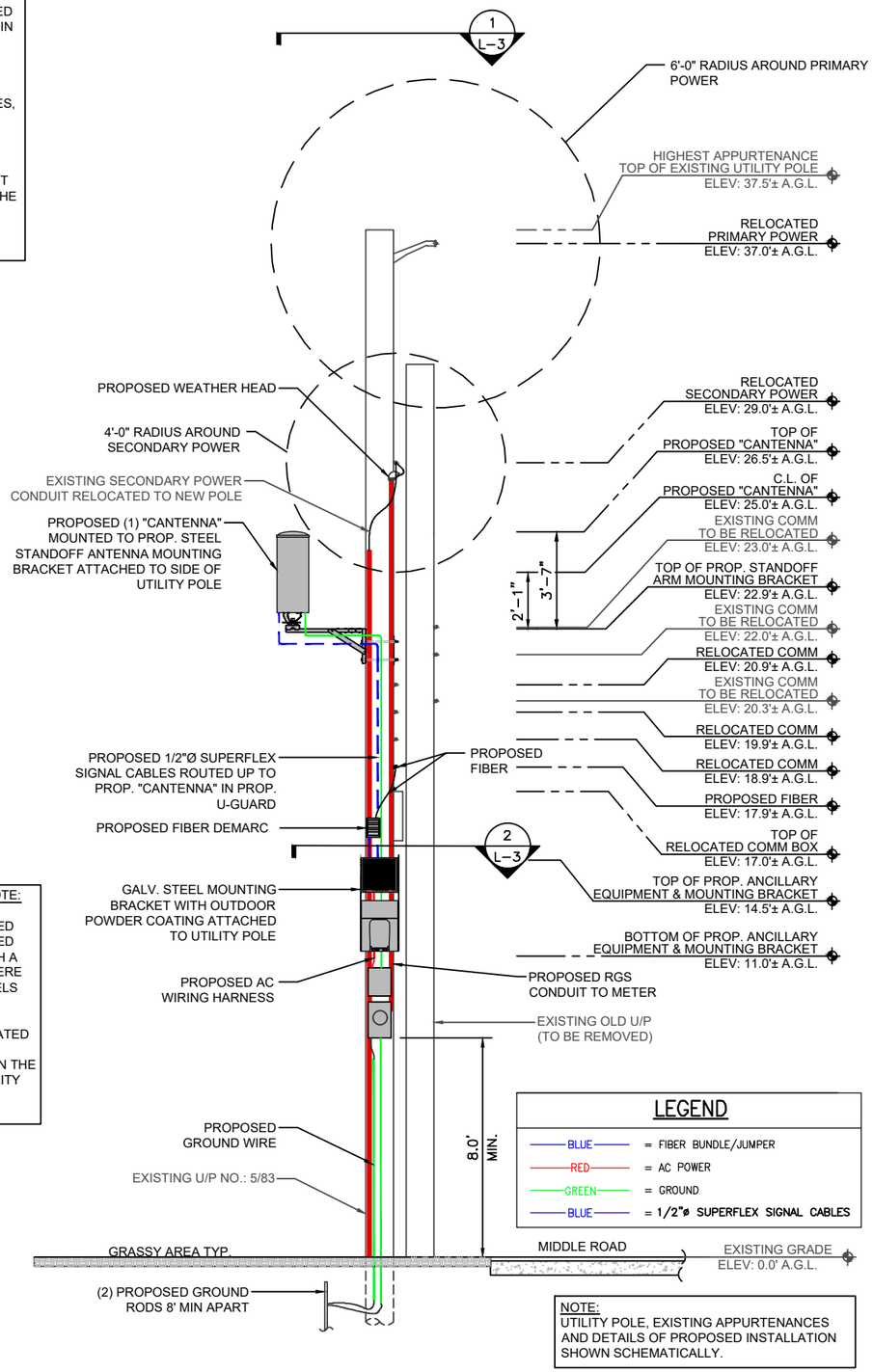
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 5/83 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10 / 16 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC09_MA

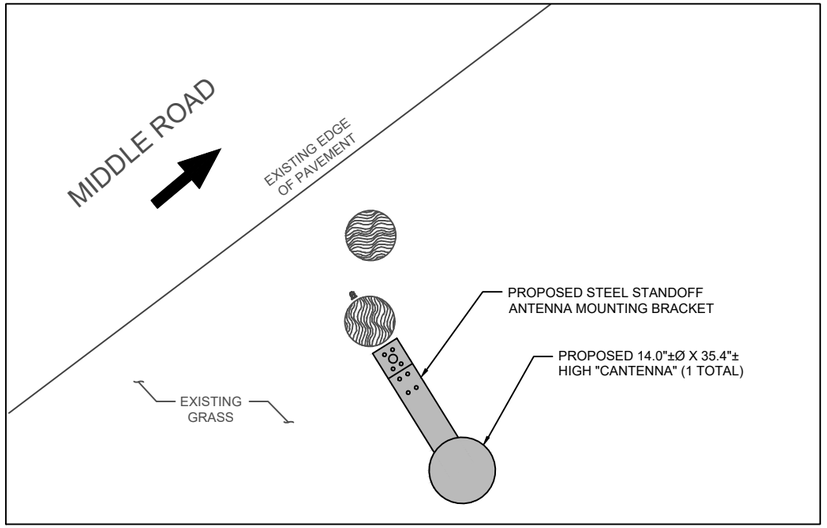
UTILITY POLE #10/16
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

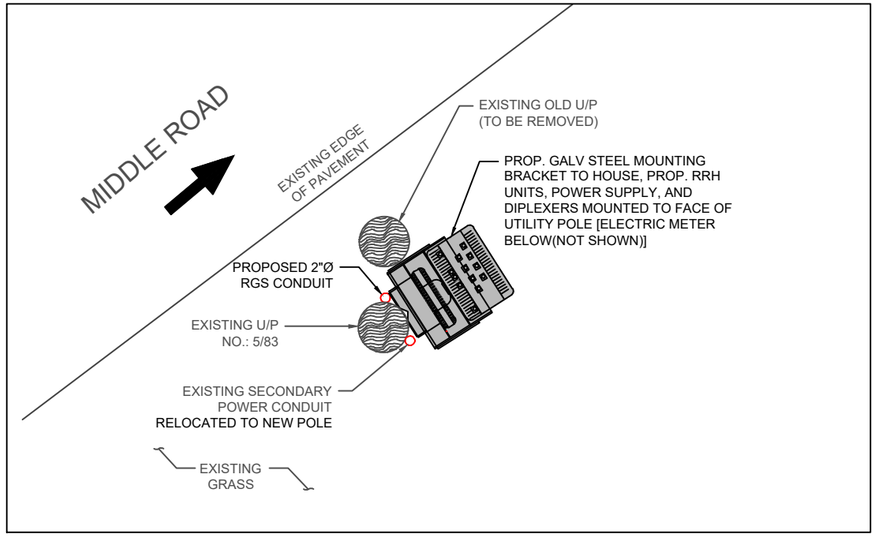
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

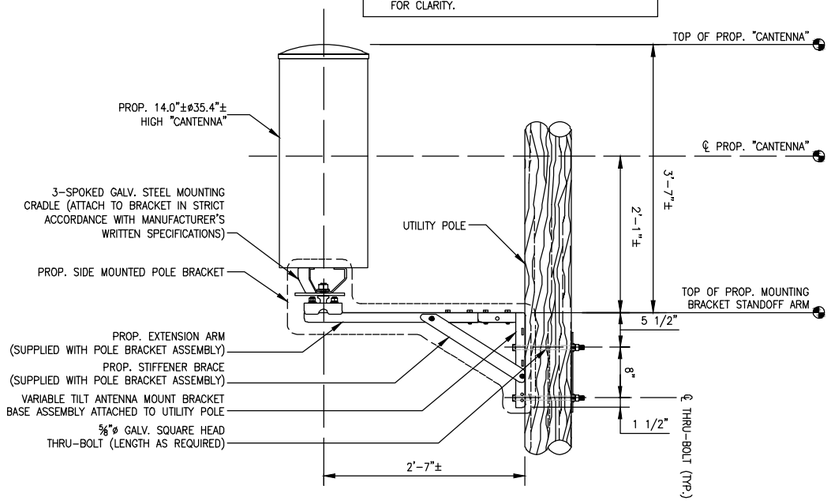
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"

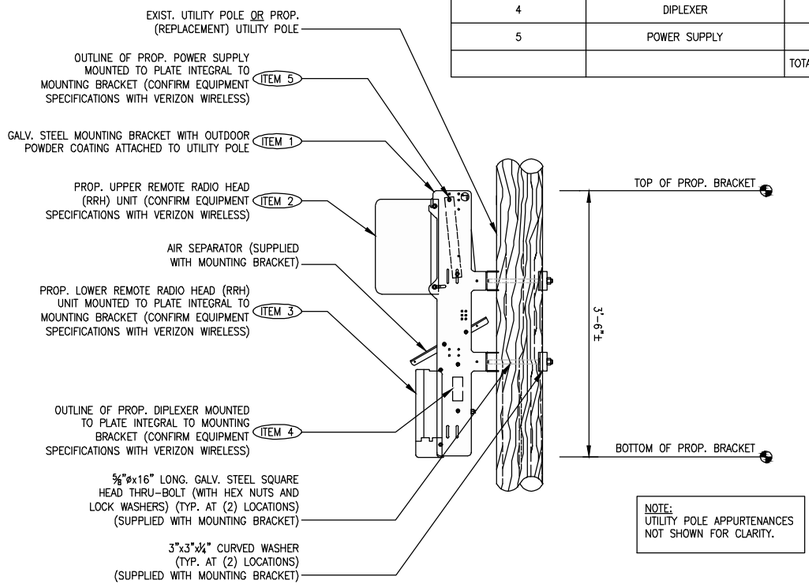
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

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0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC09_MA

UTILITY POLE #10/16
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

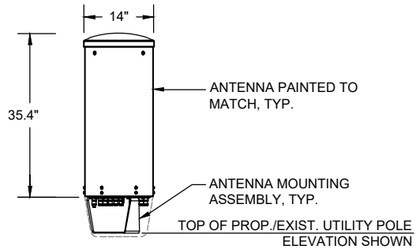
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

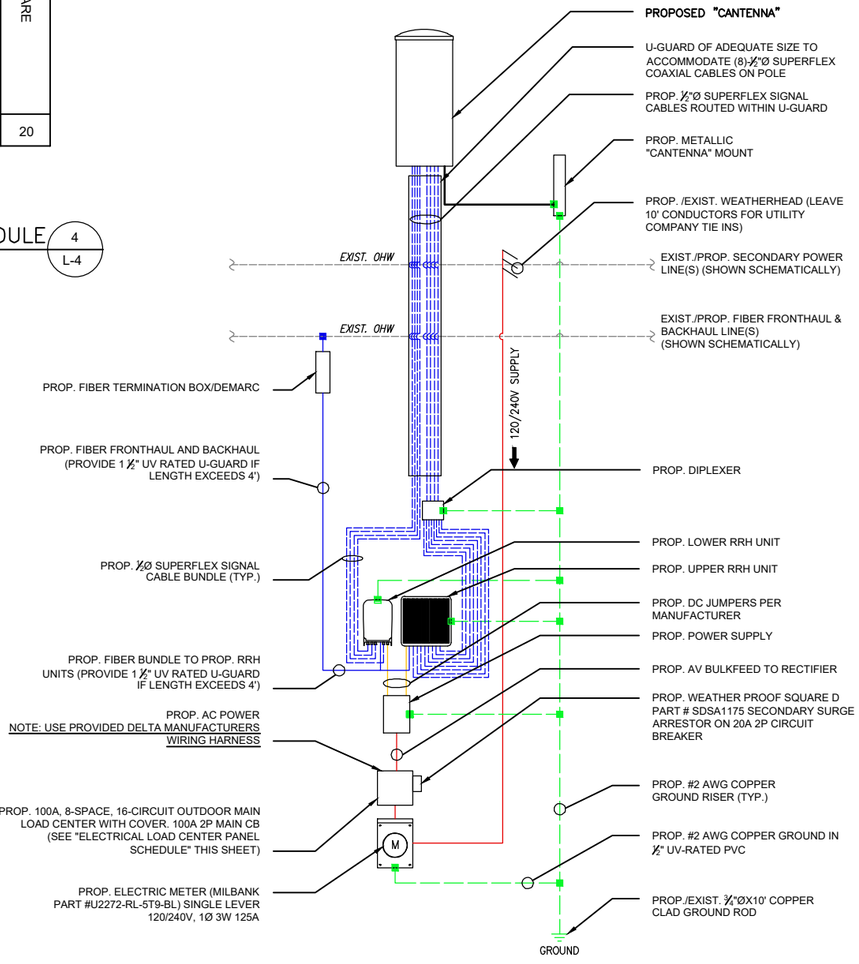
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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SITE NAME:

CHILMARK_SC09_MA

UTILITY POLE #10/16
349 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932238
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087999	06/12/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

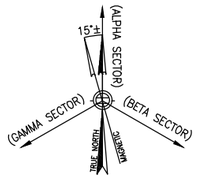
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125062
Customer Application Number	ChilmarkSC09MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/20/2023
Date	12/20/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 10, near 395 North Road, Chilmark, MA



SITE NAME: CHILMARK_SC10_MA

CLUSTER: CHILMARK

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/189
N 41.358834° (41° 21' 31.80")
W -70.74713° (-70° 44' 49.67")
APPROXIMATE GROUND ELEVATION 207.7'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

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REVISIONS

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0	ISSUED FOR REVIEW	06/22/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

DRAWING NO:
L-1

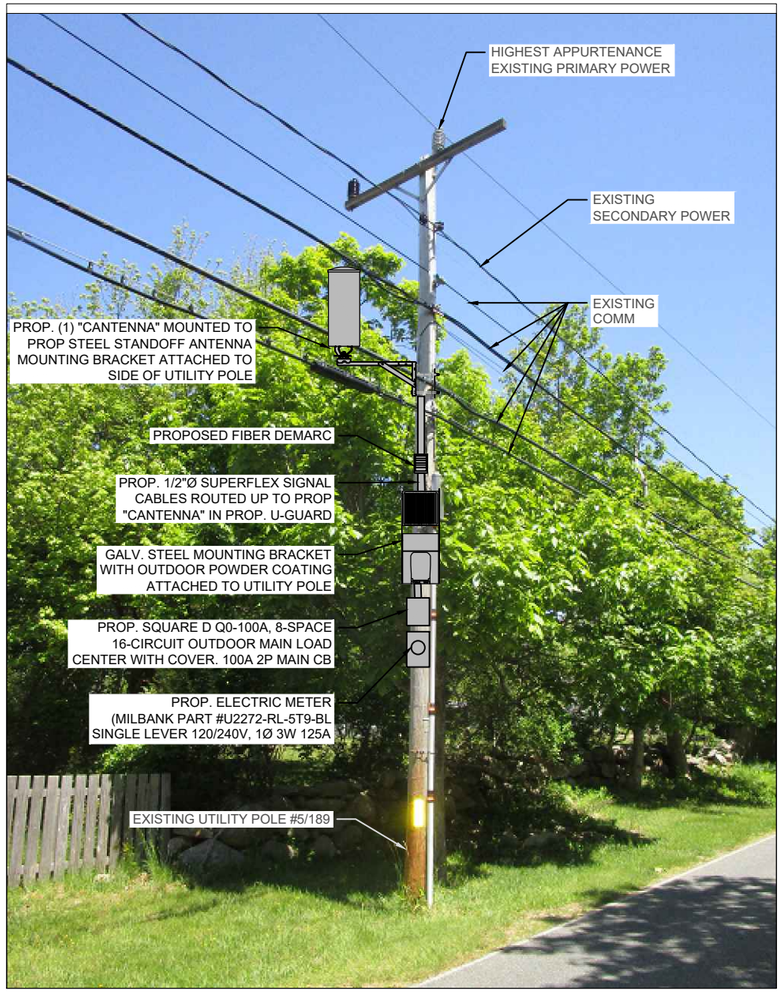
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23

GENERAL NOTES:

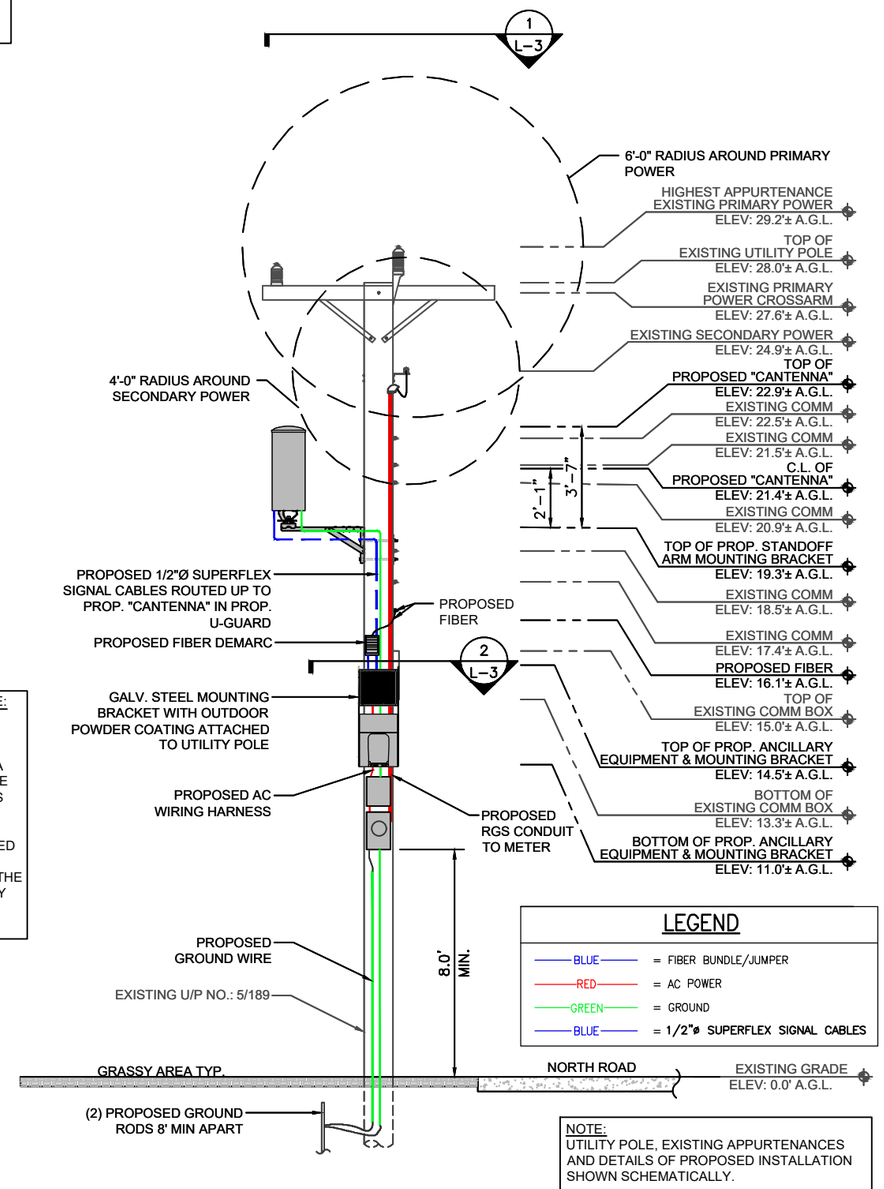
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2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
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ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE



UTILITY POLE # 5/189 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/189 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
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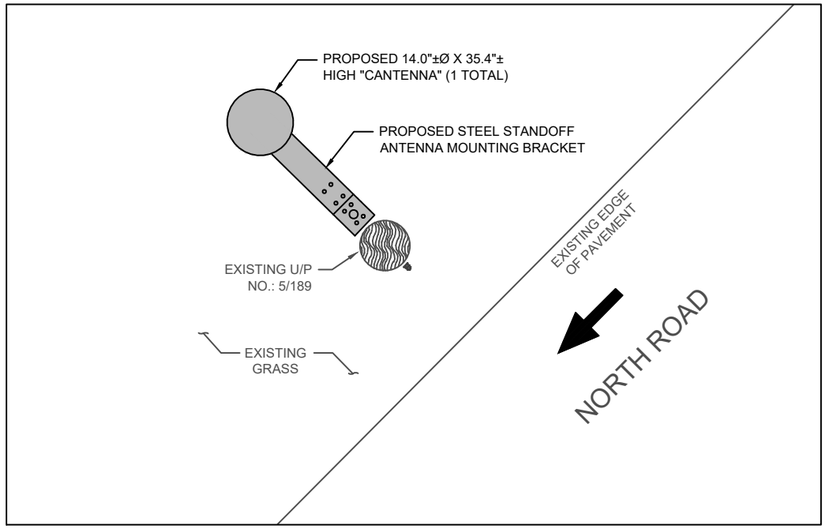
SITE NAME:
CHILMARK_SC10_MA
UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

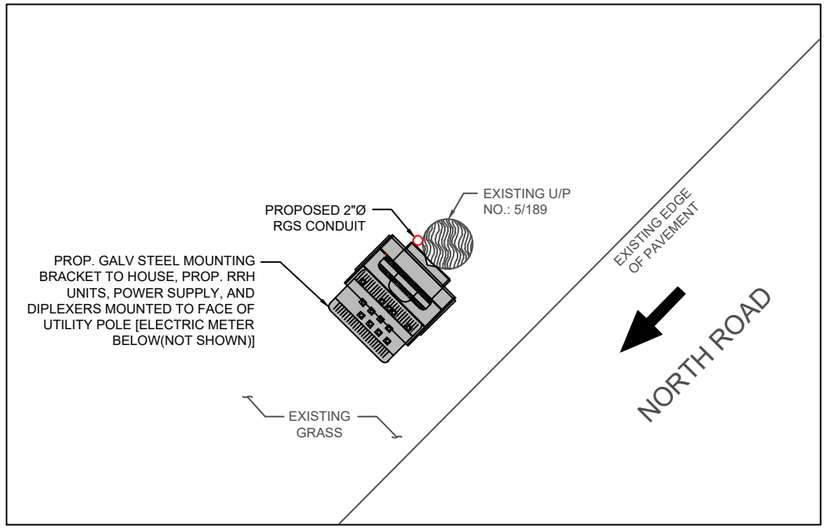
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

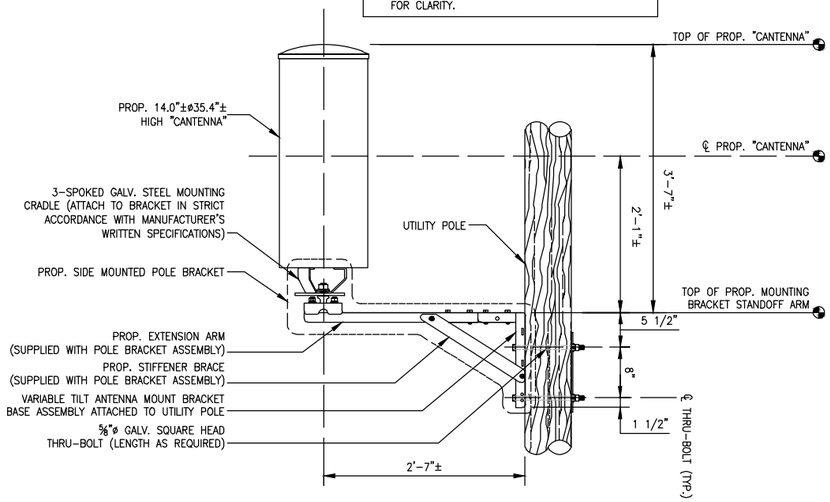
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

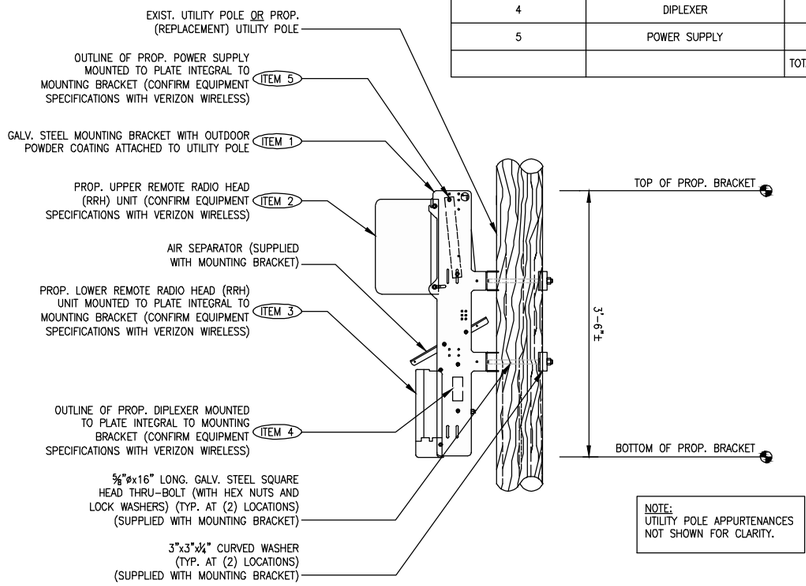
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

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1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

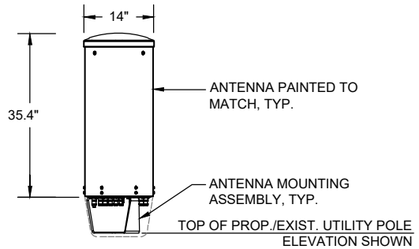
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

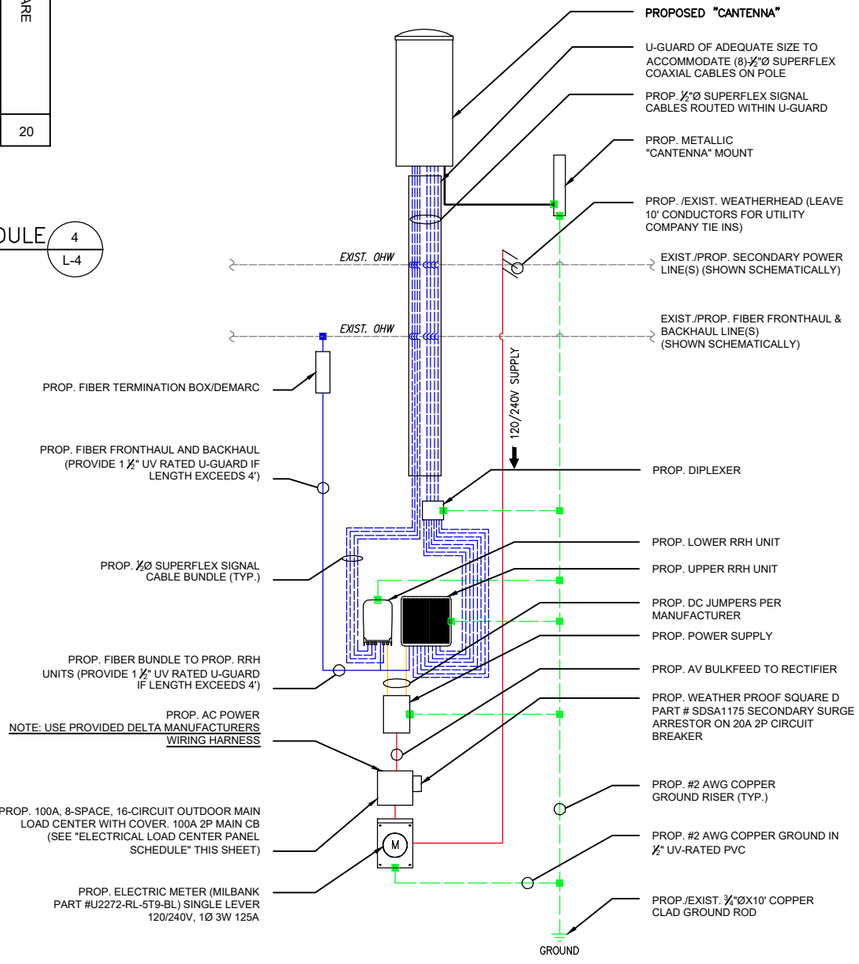
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/22/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 12, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC10_MA
FUZE Project ID: 17087899
MDG Location ID: 5000932303
Site Address: 395 North Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**69.0**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
28.0'	35/4	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

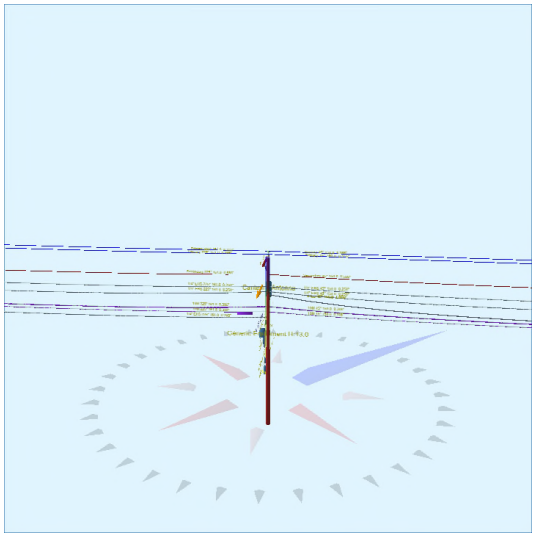
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/189**	Pole Length / Class:	**35 / 4**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**7.0**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**31.14**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**69.0**	0.0	134.8
Groundline	**69.0**	0.0	134.8
Vertical	**22.5**	18.9	134.8

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**36,826**	134.0	134.8
Groundline	**36,826**	134.0	134.8
GL Allowable	**54,169**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 134.0°

	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	389	22.7	**10,290**	27.9	**19.0**	**1,248**	614	8	**1,256**	**18.5**
Comms	1,032	60.3	**22,345**	60.7	**41.3**	**2,710**	2,498	32	**2,742**	**40.3**
GenericEquipments	68	4.0	**774**	2.1	**1.4**	**94**	379	5	**99**	**1.5**
Pole	136	7.9	**2,057**	5.6	**3.8**	**249**	1,214	16	**265**	**3.9**
Crossarms	82	4.8	**1,238**	3.4	**2.3**	**150**	278	4	**154**	**2.3**
Insulators	4	0.3	**123**	0.3	**0.2**	**15**	125	2	**17**	**0.2**
Pole Load	1,711	100.0	**36,826**	100.0	**68.0**	**4,466**	5,109	66	**4,532**	**66.6**
Pole Reserve Capacity			**17,343**		**32.0**	**2,334**			**2,268**	**33.4**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 134.0°

	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 (%)
Existing	1,354	79.1	**31,559**	85.7	**58.3**	**3,827**	3,103	40	**3,867**	**56.9**
Vzw	222	13.0	**3,210**	8.7	**5.9**	**389**	792	10	**400**	**5.9**
Pole	136	7.9	**2,057**	5.6	**3.8**	**249**	1,214	16	**265**	**3.9**
Totals:	1,711	100.0	**36,826**	100.0	**68.0**	**4,466**	5,109	66	**4,532**	**66.6**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	28.71	0.00	0.3550	0.87	0.115	150.0	45.0	150.0	1,065	557	0	1,762	2,320
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	28.71	0.00	0.3550	0.98	0.115	161.0	225.0	161.0	1,065	-557	0	1,892	1,334
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	28.40	48.27	0.3550	0.87	0.115	150.0	45.0	150.0	1,065	551	-382	1,743	1,912
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	28.40	48.27	0.3550	0.98	0.115	161.0	225.0	161.0	1,065	-551	-410	1,871	910
Secondary	TRIPLEX 6 AWG	Existing	24.90	6.02	0.5800	1.99	0.113	150.0	45.0	150.0	357	162	58	1,782	2,001
Secondary	TRIPLEX 6 AWG	Existing	24.90	6.02	0.5800	2.18	0.113	161.0	225.0	161.0	357	-162	62	1,912	1,812
											Totals:	**0**	**-672**	**10,962**	**10,290**

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	1/4" EHS	Existing	22.50	6.16	0.2500	1.72	0.121	150.0	45.0	150.0	800	328	40	1,436	1,804
Telco	26 GA 50 PR (0.58)	Existing	22.47	6.16	0.5800		0.180	150.0	45.0	150.0			45	417	461
Overlashed Bundle	1/4" EHS	Existing	22.50	6.16	0.2500	1.95	0.121	161.0	225.0	161.0	800	-328	43	1,542	1,257
Telco	26 GA 50 PR (0.58)	Existing	22.47	6.16	0.5800		0.180	161.0	225.0	161.0			48	447	495
Overlashed Bundle	1/4" EHS	Existing	21.50	6.22	0.2500	2.37	0.121	150.0	45.0	150.1	800	313	36	1,353	1,702
Telco	26 GA 50 PR (0.58)	Existing	21.47	5.93	0.5800		0.180	150.0	45.0	150.1			38	379	417
Telco	26 GA 50 PR (0.58)	Existing	21.47	6.51	0.5800		0.180	150.0	45.0	150.1			42	379	421
Overlashed Bundle	1/4" EHS	Existing	21.50	6.22	0.2500	2.68	0.121	161.0	225.0	161.1	800	-313	38	1,452	1,177
Telco	26 GA 50 PR (0.58)	Existing	21.47	5.93	0.5800		0.180	161.0	225.0	161.1			41	407	448
Telco	26 GA 50 PR (0.58)	Existing	21.47	6.51	0.5800		0.180	161.0	225.0	161.1			45	407	452
Telco	TELE 1.0	Existing	20.87	6.54	1.0000	0.53	0.400	150.0	45.0	150.3	333	127	107	1,890	2,124
Telco	TELE 1.0	Existing	20.87	6.54	1.0000	0.53	0.400	150.0	45.0	150.3	333	127	107	1,890	2,124
Overlashed Bundle	10M	Existing	18.50	6.39	0.3060	1.88	0.165	150.0	45.0	150.1	2,000	674	59	1,427	2,160
CATV	CATV .75	Existing	18.44	6.39	1.0700		0.900	150.0	45.0	150.1			117	587	704
Overlashed Bundle	10M	Existing	18.50	6.39	0.3060	2.15	0.165	161.0	225.0	161.1	2,000	-674	64	1,531	921
CATV	CATV .75	Existing	18.44	6.39	1.0700		0.900	161.0	225.0	161.1			126	630	756
Overlashed Bundle	10M	Existing	17.40	6.45	0.3060	1.37	0.165	150.0	45.0	150.0	2,000	634	47	1,128	1,808
CATV	CATV .50	Existing	17.37	6.45	0.5700		0.600	150.0	45.0	150.0			81	339	420
Overlashed Bundle	10M	Existing	17.40	6.45	0.3060	1.57	0.165	161.0	225.0	161.0	2,000	-634	50	1,211	627
CATV	CATV .50	Existing	17.37	6.45	0.5700		0.600	161.0	225.0	161.0			87	616	703
Overlashed Bundle	1/4" EHS	Vzw	16.10	6.53	0.2500	2.17	0.121	161.0	225.0	161.0	800	-235	-1	1,191	956
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	16.06	6.53	0.7560		0.208	161.0	225.0	161.0			-1	407	406
											Totals:	**19**	**1,259**	**21,068**	**22,345**

GenericEquipment		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)
Cylinder	Cantenna Antenna	Vzw	20.88	36.78	40.0	0.0	35.00	35.40	--	14.00	--	-210	481	271
Box	Demarc	Vzw	15.00	5.44	225.0	0.0	2.00	9.60	2.70	--	7.00	0	31	31
Box	Generic Equipment	Existing	13.00	6.21	131.0	0.0	5.00	12.00	4.00	--	10.00	5	125	130
Box	RRU	Vzw	12.83	13.14	225.0	0.0	102.50	17.30	11.50	--	17.30	12	184	196
Box	Diplexer	Vzw	10.17	9.01	225.0	0.0	7.60	4.80	3.30	--	7.90	0	15	14
Box	RRU	Vzw	11.17	9.81	225.0	0.0	21.40	13.90	4.80	--	9.80	3	62	65
Box	AC Power	Vzw	7.00	6.69	225.0	0.0	9.93	12.65	4.27	--	8.88	0	30	30
Box	Meter	Vzw	5.00	7.07	225.0	0.0	16.25	18.50	4.80	--	10.00	0	36	35
											Totals:	**-191**	**965**	**774**

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	Existing	27.50	5.12	225.0	225.0	53.00	4.50	3.50	96.00	-1	35	34
Offset	Standoff	Vzw	19.30	1.03	40.0	40.0	28.00	1.50	5.38	31.00	71	13	83
Normal	Riser	Vzw	14.00	5.65	315.0	315.0	37.40	336.00	3.00	3.00	-35	1,136	1,102
Normal	Bracket	Vzw	11.50	-7.46	45.0	45.0	28.00	42.00	0.50	21.00	-1	20	19
										Totals:	**35**	**1,203**	**1,238**

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)
Pin	Pin Insulator - 10 kV	Existing	28.00	0.00	0.0	0.0	7.00	4.50	8.50	0	55	55
Pin	Pin Insulator - 10 kV	Existing	27.69	48.00	308.9	0.0	7.00	4.50	8.50	0	54	54
Spool	Spool 3"	Existing	24.90	0.00	131.0	131.0	2.00	3.00	3.19	0	12	12
Bolt	Single Bolt	Existing	22.50	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	21.50	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
J-Hook	J-Hook	Existing	20.90	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	19.30	-32.88	311.6	0.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	18.50	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	17.40	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	16.10	0.00	225.0	225.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.50	-9.06	217.8	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.50	-24.07	225.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	9.83	2.94	217.8	280.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**123**	**123**

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	18.92	33.30	9.19	6.82	6.69	9.92	1.60e+6	60.00	57.00	28.00	22,739	**227.07**	**4.44**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC10MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC10MA is hereby granted to make 1 Antenna / Node attachment described in this application to _____ attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 6/10/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC10MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC10MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC10MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
395 NORTH ROAD		N/A	5/189			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 395 NORTH ROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

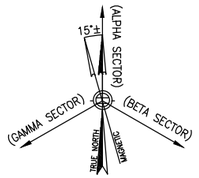
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC10_MA

CLUSTER: CHILMARK

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/189
N 41.358834° (41° 21' 31.80")
W -70.74713° (-70° 44' 49.67")
APPROXIMATE GROUND ELEVATION 207.7'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/22/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

DRAWING NO:
L-1

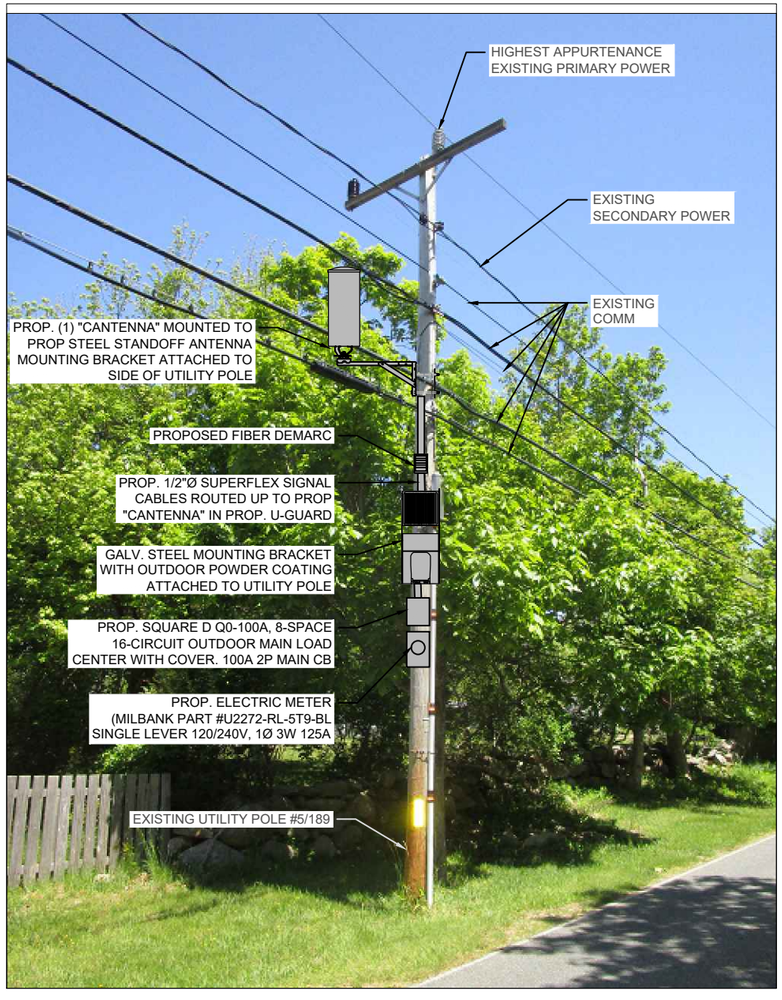
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23

GENERAL NOTES:

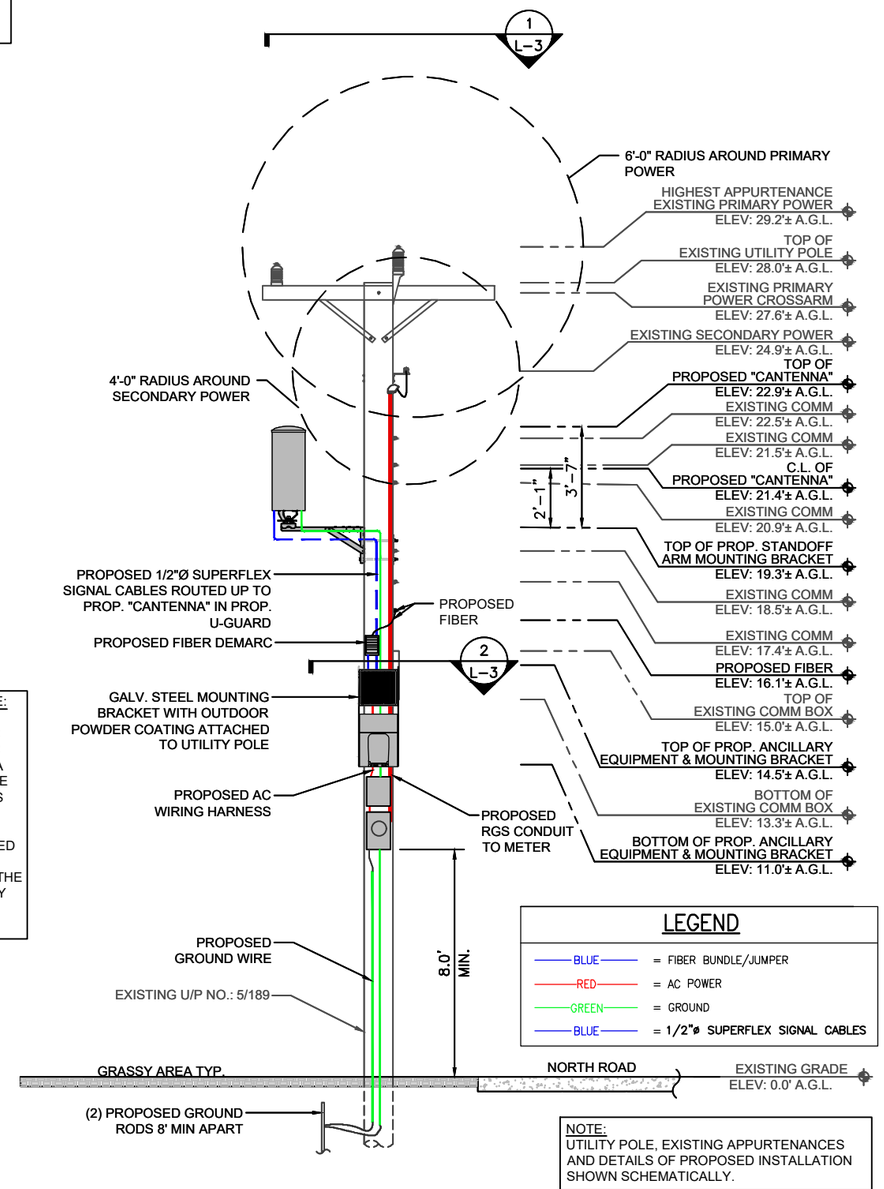
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE



UTILITY POLE # 5/189 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/189 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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0	ISSUED FOR REVIEW	06/22/23
1	REVISED FOR REVIEW	08/18/23

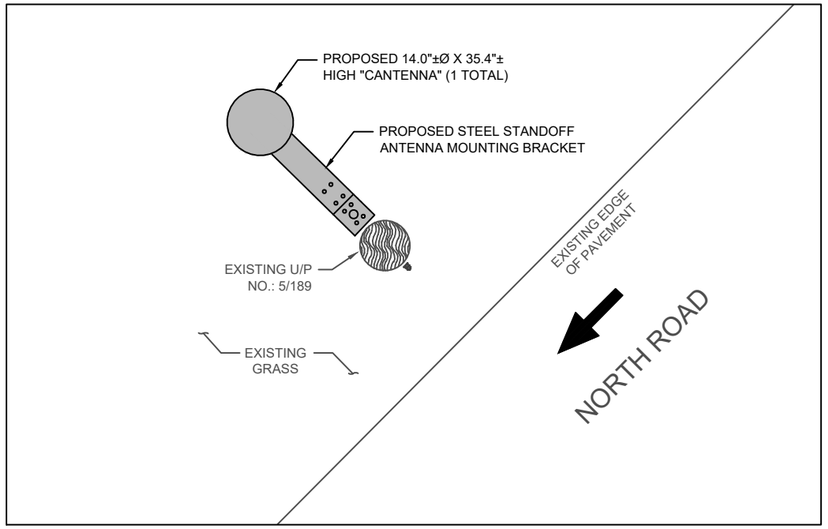
SITE NAME:
CHILMARK_SC10_MA
UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

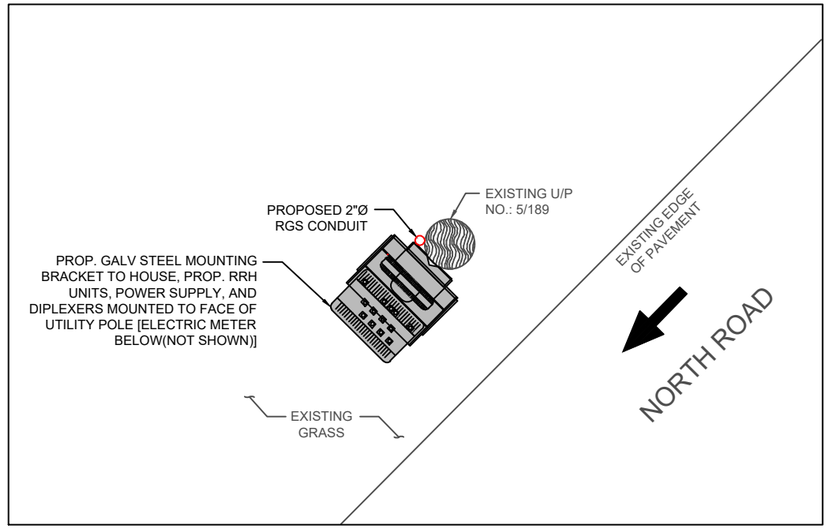
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

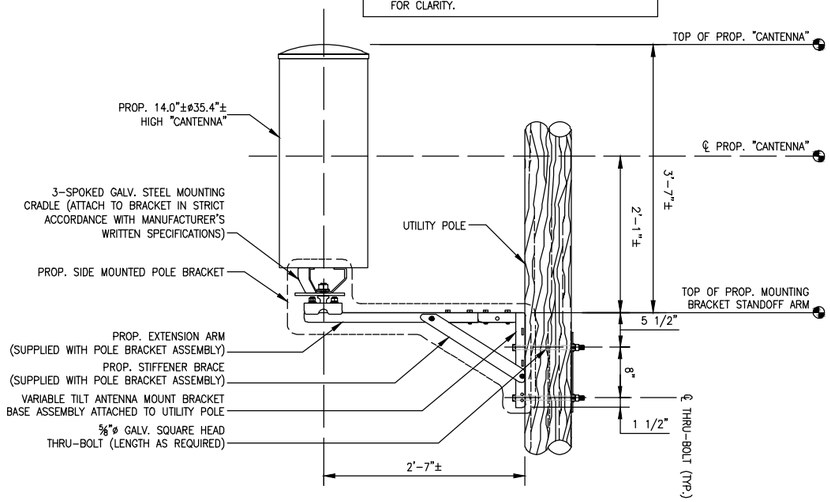
NORTH

0 1'-4" 2'-8" 4'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

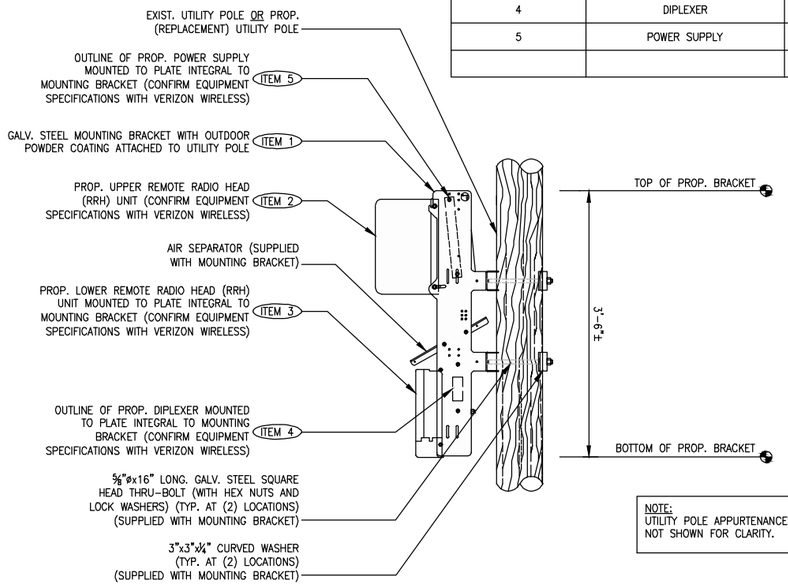
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/22/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

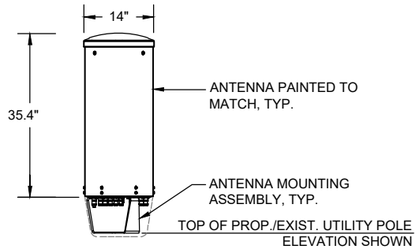
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

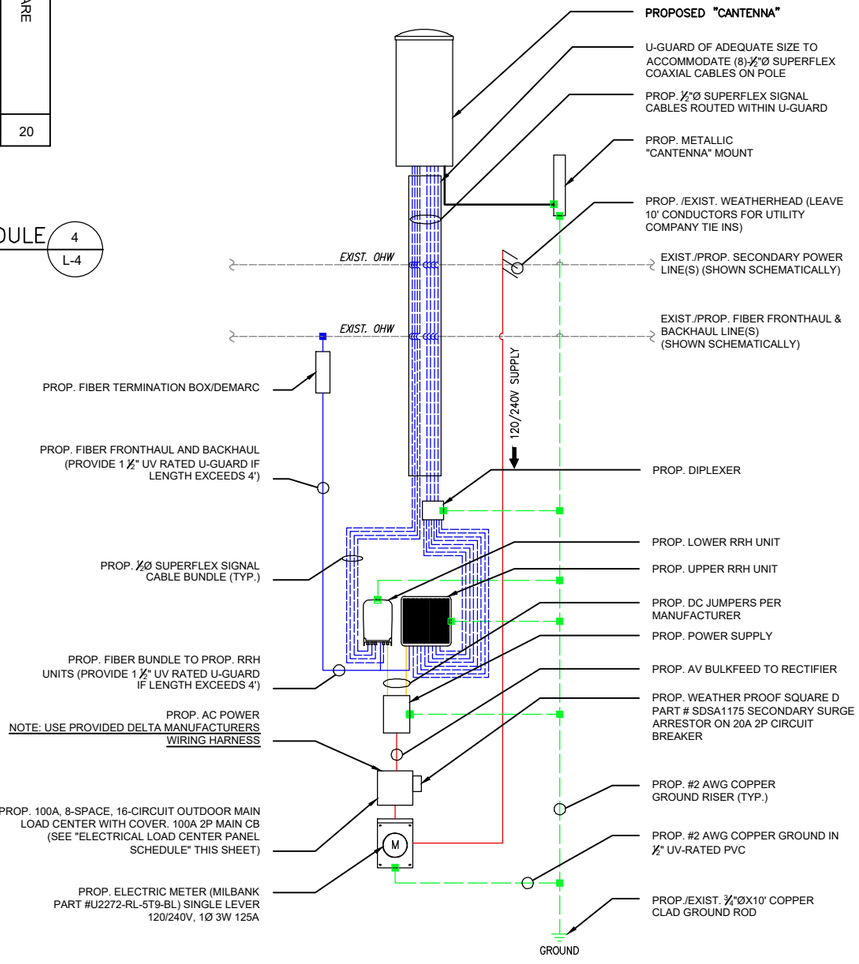
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC10_MA

UTILITY POLE #5/189
395 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

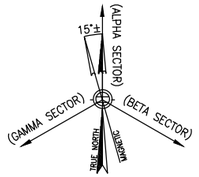
L-4

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932303
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087899	06/22/23	05/27/23

Pole Use License from Verizon to be provided

Project Location - Chilmark SC 11, near 215 North Road, Chilmark, MA



SITE NAME: CHILMARK_SC11_MA

CLUSTER: CHILMARK

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/67
N 41.378111° (41°-22'-41.20")
W -70.729502° (70°-43'-46.21")
APPROXIMATE GROUND ELEVATION 162.10'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
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L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC11_MA
UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

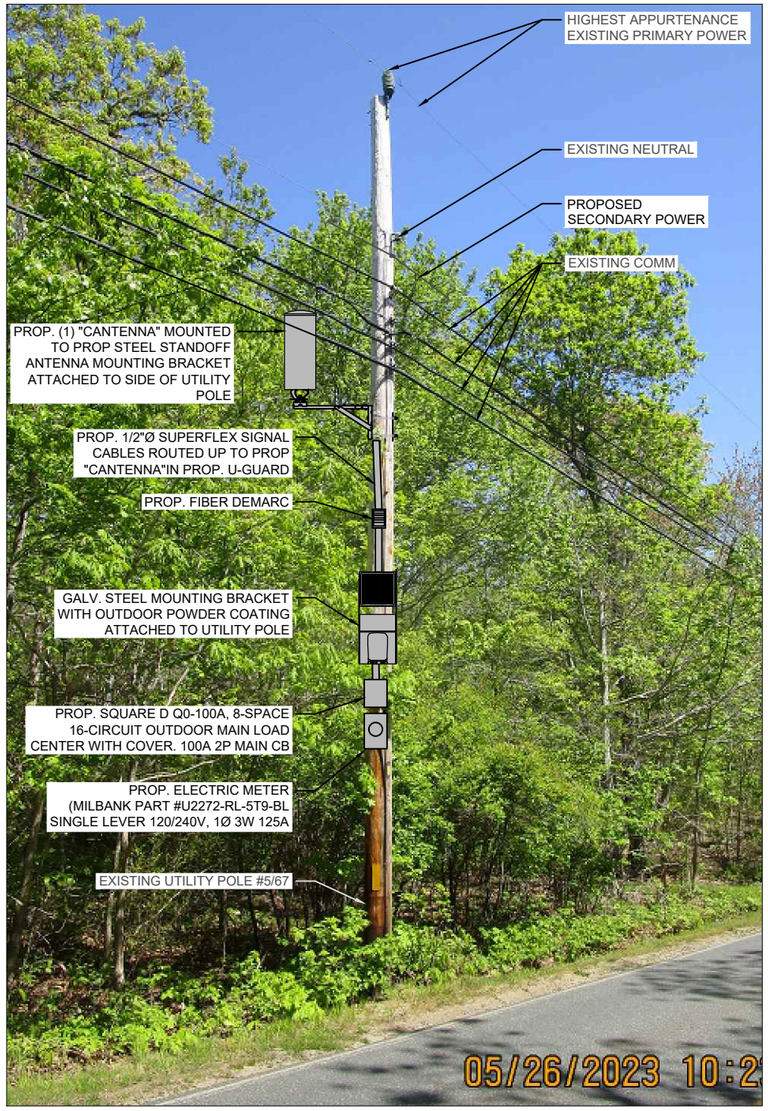
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

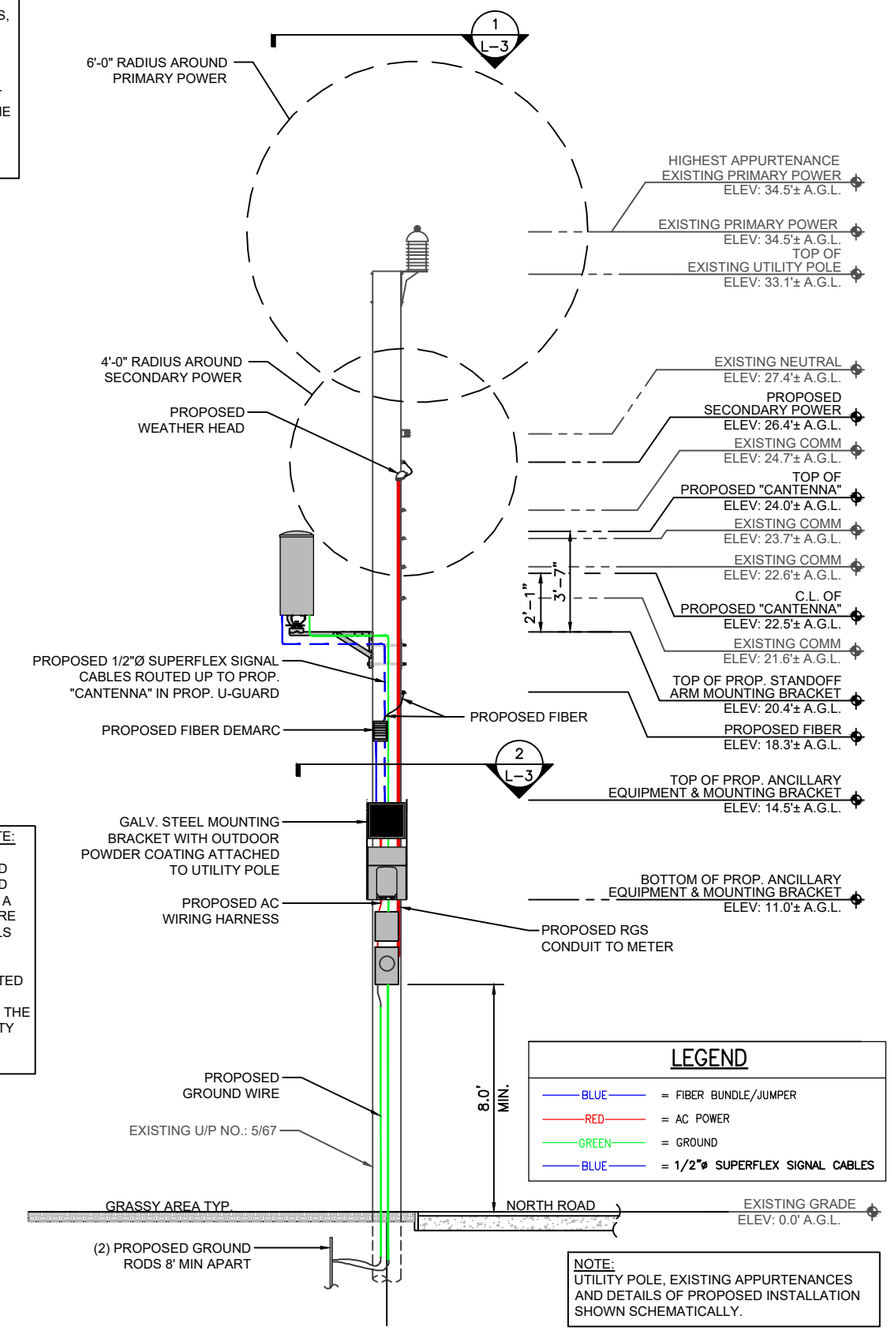


UTILITY POLE # 5/67 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 5/67 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC11_MA

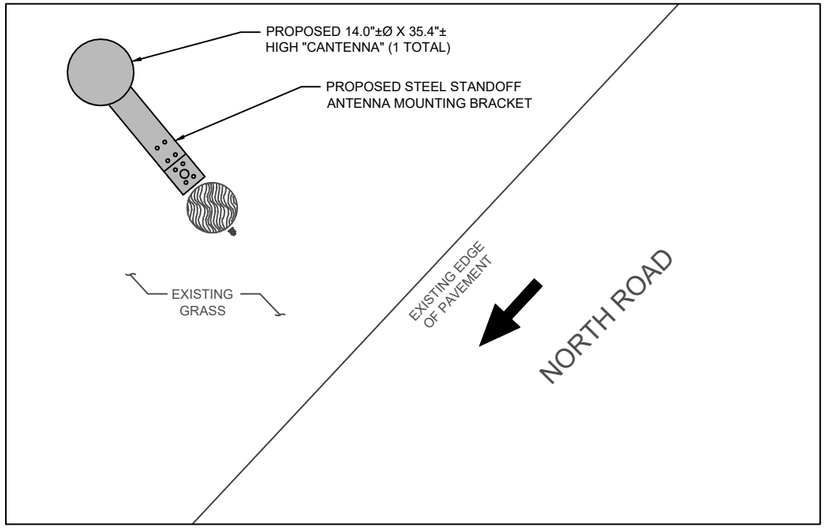
UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

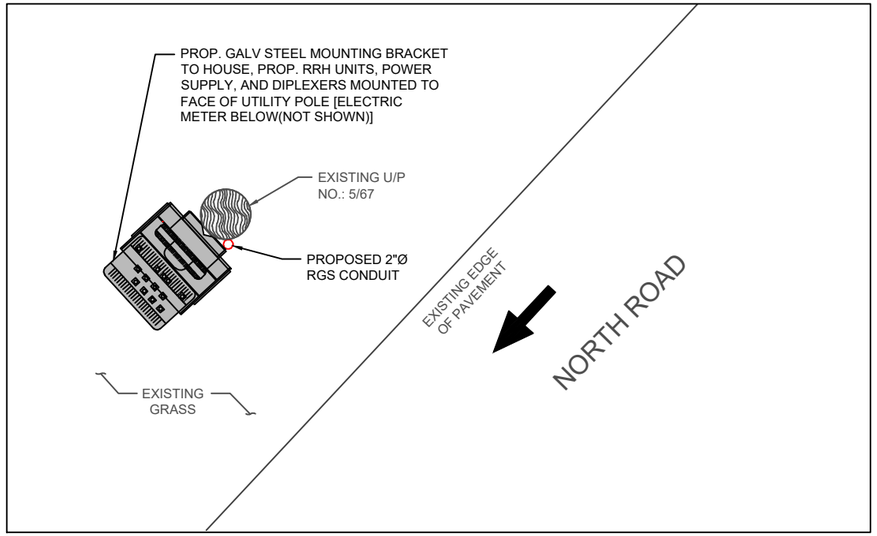
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

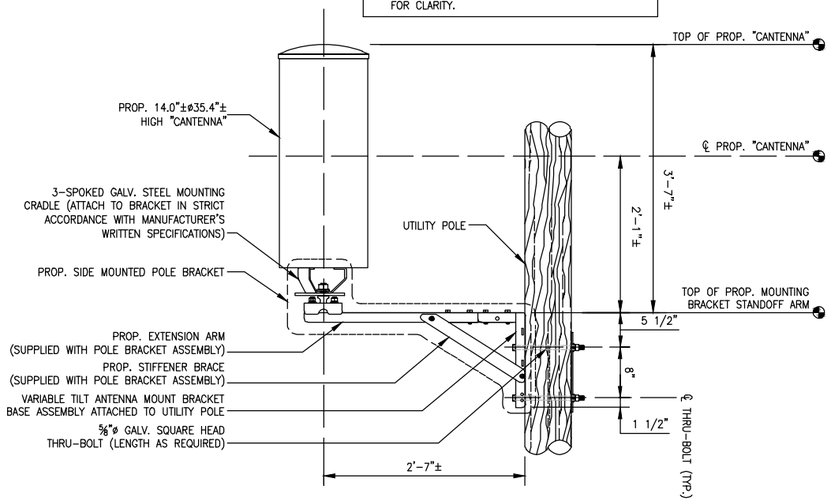
NORTH

0 1'-4" 2'-8" 4'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

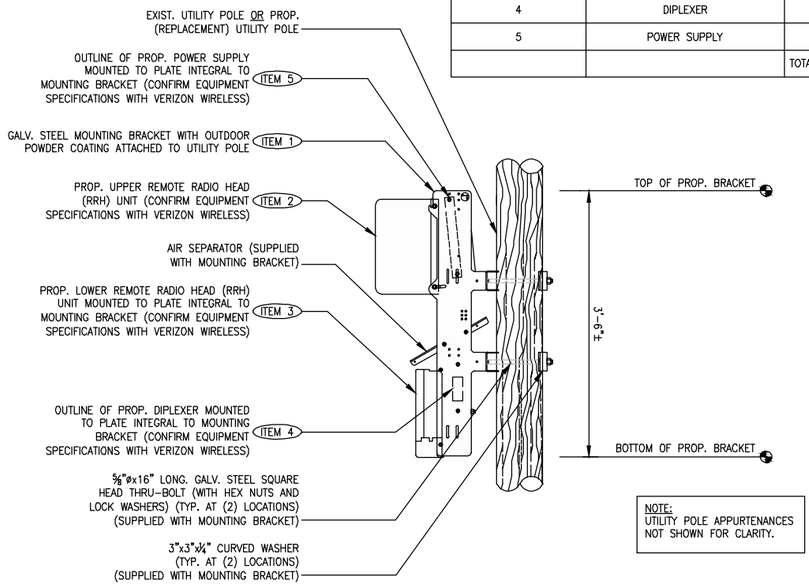
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC11_MA

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

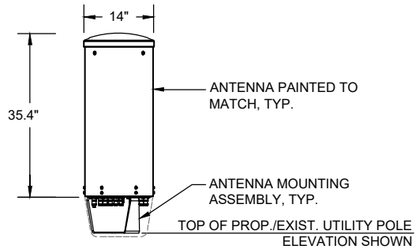
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

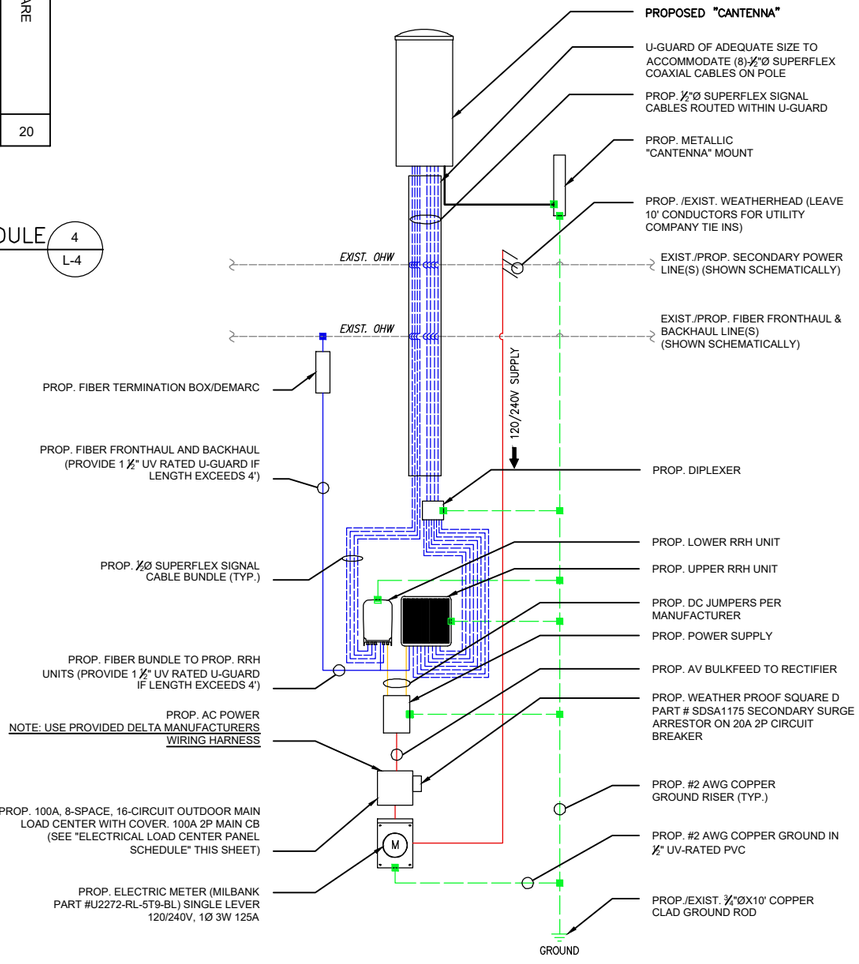
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC11_MA

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

August 17, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC11_MA
FUZE Project ID: 17088026
MDG Location ID: 5000932304
Site Address: 215 North Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**54.4**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
33.1'	40/3	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

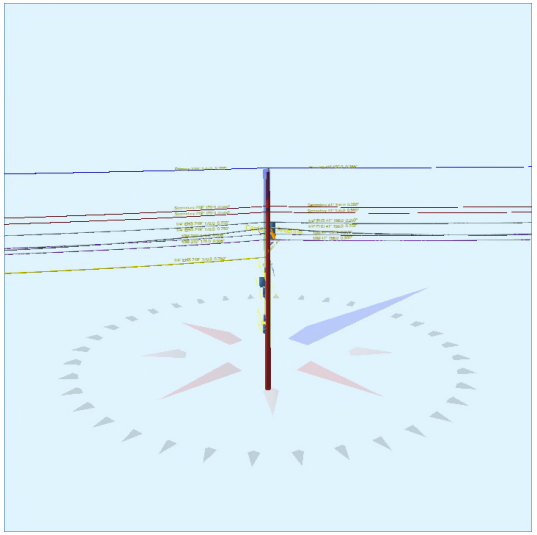
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/67**	Pole Length / Class:	**40 / 3**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**6.9**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**37.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**54.4**	0.0	133.4
Groundline	**54.4**	0.0	133.4
Vertical	**13.8**	20.3	133.4

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**48,814**	148.3	133.4
Groundline	**48,814**	148.3	133.4
GL Allowable	**90,883**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 148.3°

	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	466	22.7	**14,258**	29.2	**15.7**	**1,037**	686	6	**1,044**	**15.3**
Comms	1,252	61.1	**29,028**	59.5	**31.9**	**2,112**	2,105	19	**2,131**	**31.3**
GenericEquipments	58	2.8	**756**	1.6	**0.8**	**55**	370	3	**58**	**0.9**
Pole	178	8.7	**3,073**	6.3	**3.4**	**224**	1,911	18	**241**	**3.5**
Crossarms	93	4.5	**1,610**	3.3	**1.8**	**117**	177	2	**119**	**1.7**
Insulators	3	0.1	**89**	0.2	**0.1**	**7**	106	1	**7**	**0.1**
Pole Load	2,049	100.0	**48,814**	100.0	**53.7**	**3,552**	5,356	49	**3,601**	**53.0**
Pole Reserve Capacity			**42,069**		**46.3**	**3,248**			**3,199**	**47.0**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 148.3°

	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 (%)
Existing	1,206	58.8	**32,230**	66.0	**35.5**	**2,345**	2,395	22	**2,367**	**34.8**
Proposed	155	7.5	**4,327**	8.9	**4.8**	**315**	247	2	**317**	**4.7**
Vzw	510	24.9	**9,184**	18.8	**10.1**	**668**	803	7	**676**	**9.9**
Pole	178	8.7	**3,073**	6.3	**3.4**	**224**	1,911	18	**241**	**3.5**
Totals:	2,049	100.0	**48,814**	100.0	**53.7**	**3,552**	5,356	49	**3,601**	**53.0**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.81	0.00	0.3550	1.07	0.115	170.0	219.0	170.0	1,065	12,257	0	2,199	14,456
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	33.81	0.00	0.3550	0.93	0.115	156.0	41.0	156.0	1,065	-11,029	0	2,045	-8,984
Secondary	TRIPLEX 6 AWG	Existing	27.40	6.54	0.5800	2.09	0.113	156.0	41.0	156.0	357	-2,995	62	1,932	-1,001
Secondary	TRIPLEX 6 AWG	Existing	27.40	6.54	0.5800	2.33	0.113	170.0	219.0	170.0	357	3,328	67	2,077	5,473
Secondary	TRIPLEX 6 AWG	Proposed	26.40	6.61	0.5800	2.09	0.113	156.0	41.0	156.0	357	-2,886	63	1,862	-962
Secondary	TRIPLEX 6 AWG	Proposed	26.40	6.61	0.5800	2.33	0.113	170.0	219.0	170.0	357	3,207	68	2,001	5,276
											Totals:	**1,882**	**260**	**12,116**	**14,258**

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	1/4" EHS	Existing	24.70	6.73	0.2500	1.84	0.121	156.0	41.0	156.0	800	-6,050	43	1,554	-4,453
Telco	26 GA 50 PR (0.58)	Existing	24.67	6.73	0.5800		0.180	156.0	41.0	156.0			48	451	499
Overlashed Bundle	1/4" EHS	Existing	24.70	6.73	0.2500	2.14	0.121	170.0	219.0	170.0	800	6,724	47	1,670	8,441
Telco	26 GA 50 PR (0.58)	Existing	24.67	6.73	0.5800		0.180	170.0	219.0	170.0			52	485	537
Overlashed Bundle	1/4" EHS	Existing	23.70	6.79	0.2500	3.13	0.121	156.0	41.0	156.1	800	-5,805	33	1,401	-4,372
Telco	26 GA 50 PR (0.58)	Existing	23.68	6.49	0.5800		0.180	156.0	41.0	156.1			36	342	378
Telco	26 GA 50 PR (0.58)	Existing	23.68	7.09	0.5800		0.180	156.0	41.0	156.1			39	342	382
Telco	26 GA 50 PR (0.58)	Existing	23.64	6.79	0.5800		0.180	156.0	41.0	156.1			38	342	379
Overlashed Bundle	1/4" EHS	Existing	23.70	6.79	0.2500	3.64	0.121	170.0	219.0	170.2	800	6,451	36	1,506	7,993
Telco	26 GA 50 PR (0.58)	Existing	23.68	6.49	0.5800		0.180	170.0	219.0	170.2			39	368	407
Telco	26 GA 50 PR (0.58)	Existing	23.68	7.09	0.5800		0.180	170.0	219.0	170.2			43	368	411
Telco	26 GA 50 PR (0.58)	Existing	23.64	6.79	0.5800		0.180	170.0	219.0	170.2			41	372	413
Overlashed Bundle	10M	Existing	22.60	6.87	0.3060	1.48	0.165	156.0	41.0	156.0	2,000	-13,840	49	1,444	-12,347
CATV	CATV .50	Existing	22.57	6.87	0.5700		0.600	156.0	41.0	156.0			85	435	519
Overlashed Bundle	10M	Existing	22.60	6.87	0.3060	1.74	0.165	170.0	219.0	170.0	2,000	15,380	53	1,552	16,985
CATV	CATV .50	Existing	22.57	6.87	0.5700		0.600	170.0	219.0	170.0			92	467	560
Overlashed Bundle	10M	Existing	21.60	6.93	0.3060	1.48	0.165	156.0	41.0	156.0	2,000	-13,227	49	1,380	-11,798
CATV	CATV .50	Existing	21.57	6.93	0.5700		0.600	156.0	41.0	156.0			86	415	501
Overlashed Bundle	10M	Existing	21.60	6.93	0.3060	1.74	0.165	170.0	219.0	170.0	2,000	14,699	54	1,483	16,236
CATV	CATV .50	Existing	21.57	6.93	0.5700		0.600	170.0	219.0	170.0			93	446	540
Overlashed Bundle	1/4" EHS	Vzw	18.30	7.16	0.2500	2.37	0.121	170.0	219.0	170.0	800	4,981	20	1,336	6,337
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	18.26	7.16	0.7560		0.208	170.0	219.0	170.0			23	457	480
											Totals:	**9,313**	**1,097**	**18,618**	**29,028**

GenericEquipment		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	Meter	Vzw	5.00	7.95	219.0	0.0	16.25	18.50	4.80	--	10.00	7	35	42
Box	AC Power	Vzw	7.00	7.55	219.0	0.0	9.93	12.65	4.27	--	8.88	4	30	34
Box	RRU	Vzw	13.83	12.39	221.0	0.0	102.50	17.30	11.50	--	17.30	77	193	270
Box	Diplexer	Vzw	11.17	8.25	221.0	0.0	7.60	4.80	3.30	--	7.90	3	16	19
Box	RRU	Vzw	12.17	9.05	221.0	0.0	21.40	13.90	4.80	--	9.80	13	65	78
Box	Demarc	Vzw	16.00	6.16	219.0	0.0	2.00	9.60	2.70	--	7.00	1	33	34
Cylinder	Cantenna Antenna	Vzw	22.48	36.78	60.0	0.0	35.00	35.40	--	14.00	--	-209	488	279
											Totals:	**-106**	**861**	**756**

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	Bracket	Vzw	12.50	-6.70	41.0	41.0	28.00	42.00	0.50	21.00	9	31	40
Normal	Riser	Vzw	16.55	6.27	315.0	315.0	37.40	397.00	3.00	3.00	-37	1,523	1,486

Offset	Standoff	Vzw	20.40	1.70	60.0	60.0	28.00	1.50	5.38	31.00	71	13	84
										Totals:	**43**	**1,567**	**1,610**

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)**
Pin	Pin Insulator - 10 kV	Existing	33.10	0.00	0.0	0.0	7.00	4.50	8.50	0	62	62
Spool	Spool 3"	Existing	27.40	0.00	130.0	130.0	2.00	3.00	3.19	0	13	13
Spool	Spool 3"	Proposed	26.40	0.00	130.0	130.0	2.00	3.00	3.19	0	12	12
Bolt	Three Bolt	Existing	24.70	0.00	130.0	130.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	23.70	0.00	130.0	130.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	22.60	0.00	130.0	130.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	21.60	0.00	130.0	130.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	213.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	221.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	213.0	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	20.90	-32.88	332.6	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	18.30	0.00	219.0	219.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**89**	**89**

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	20.29	33.48	10.86	7.18	7.32	11.78	1.60e+6	60.00	57.00	33.10	38,687	**388.09**	**7.25**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC11MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC11MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 3/19/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC11MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC11MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC11MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
215 NORTH ROAD		N/A	5/67			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/23 ***WO Received Date:*** _____
Service Address: Street: 215 NORTH ROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:
Customer Responsible for Payment of Monthly Electric Bills
Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

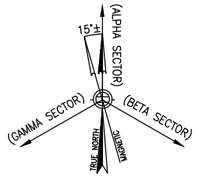
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC11_MA

CLUSTER: CHILMARK

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/67
N 41.378111° (41°-22'-41.20")
W -70.729502° (70°-43'-46.21")
APPROXIMATE GROUND ELEVATION 162.10'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC11_MA
UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

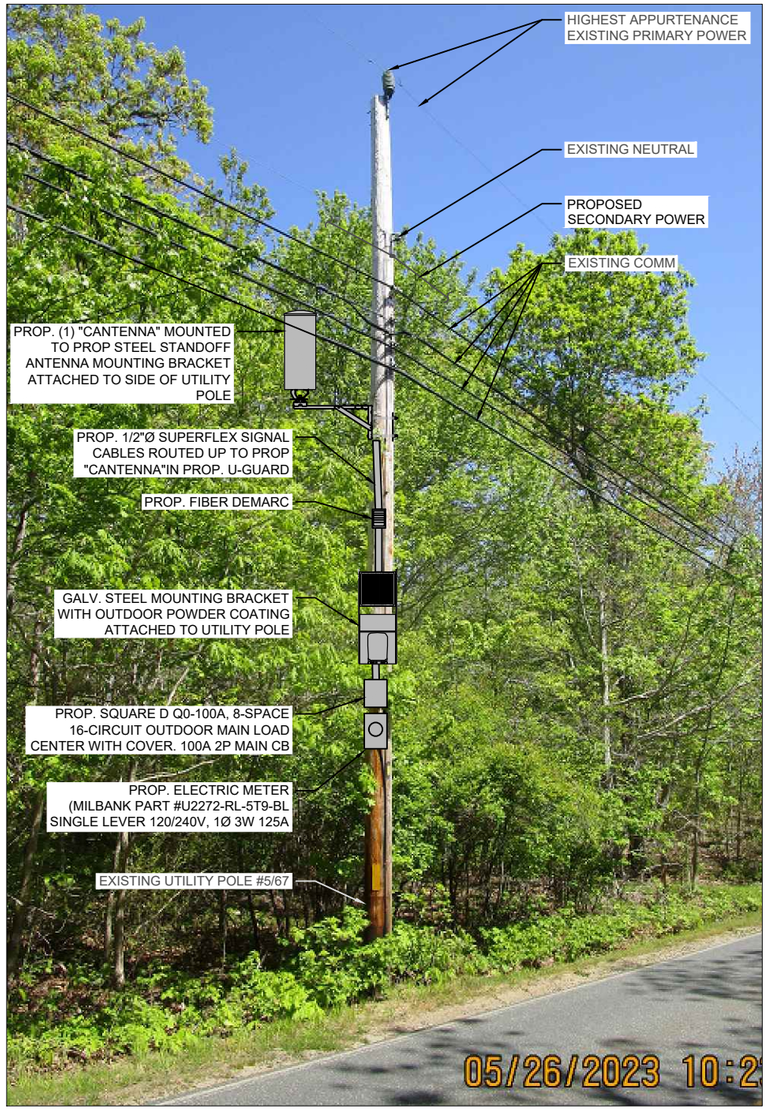
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

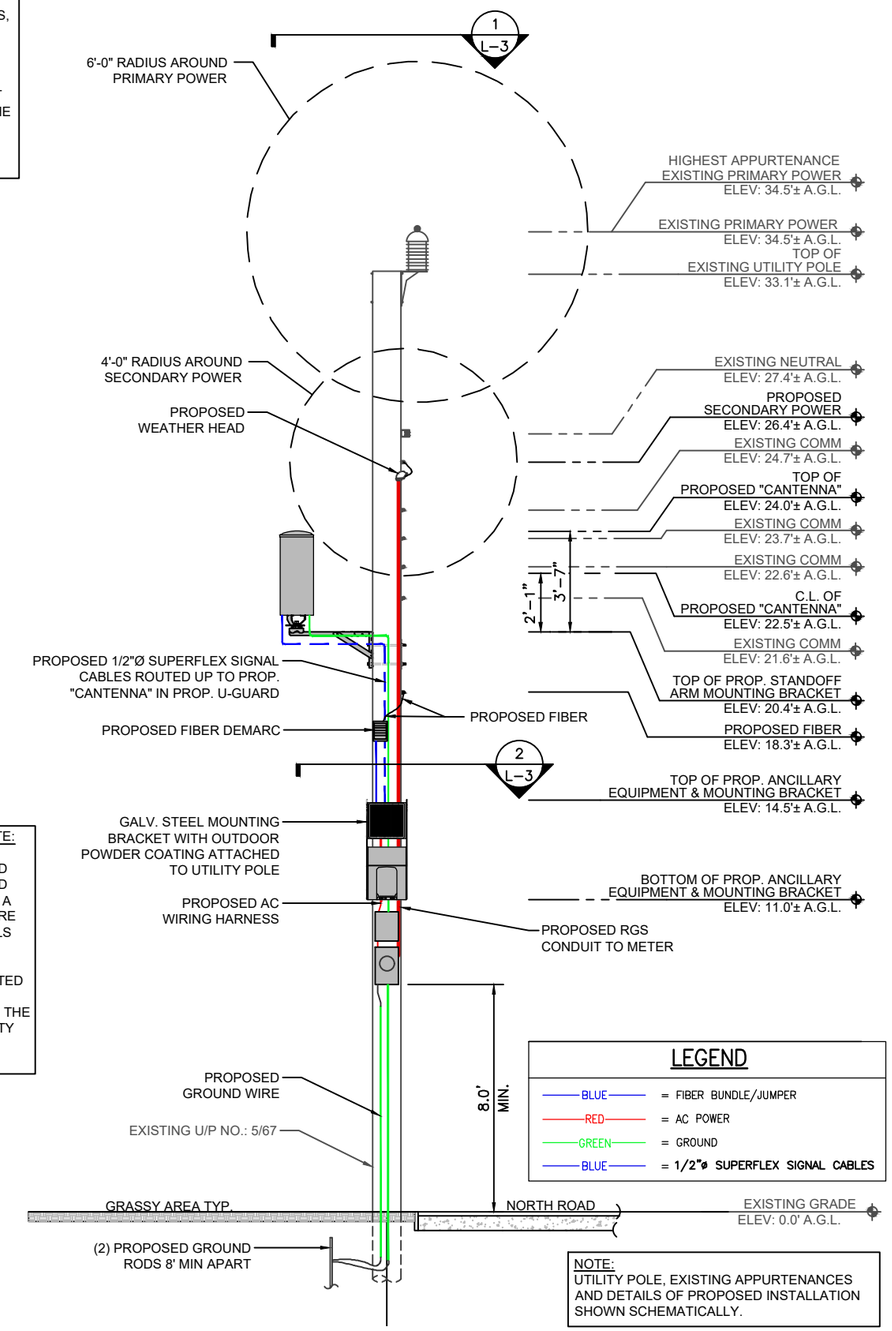


UTILITY POLE # 5/67 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 5/67 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:
CHILMARK_SC11_MA

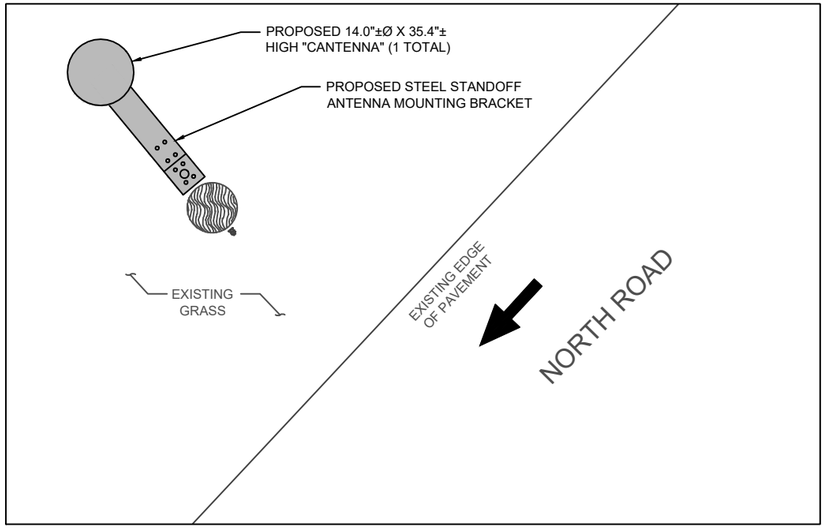
UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

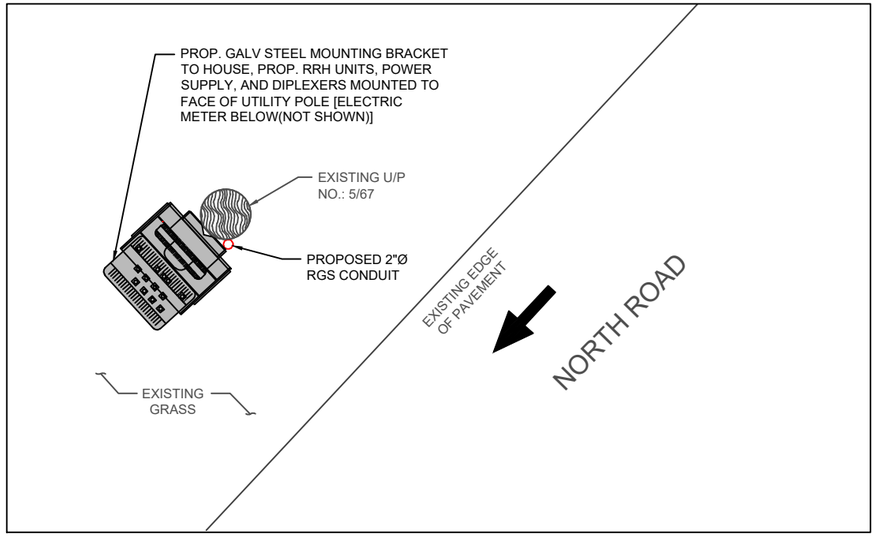
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

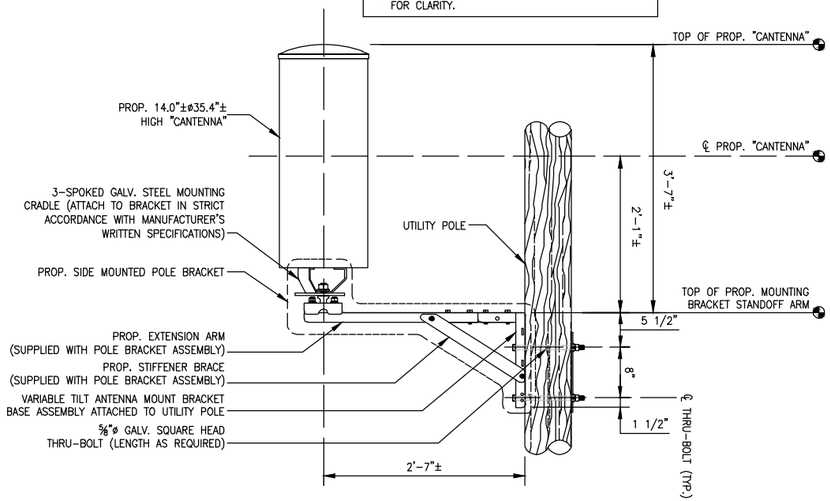
NORTH

0 1'-4" 2'-8" 4'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

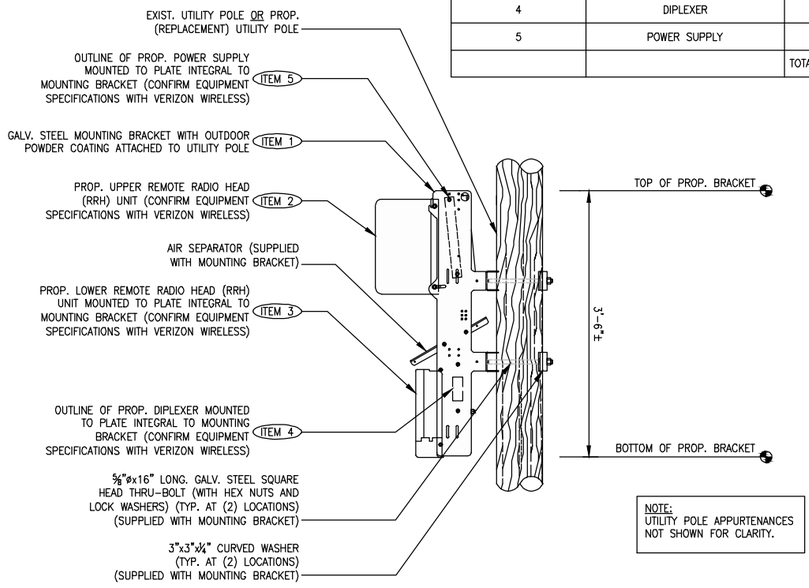
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC11_MA

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

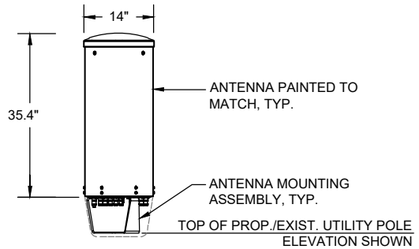
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

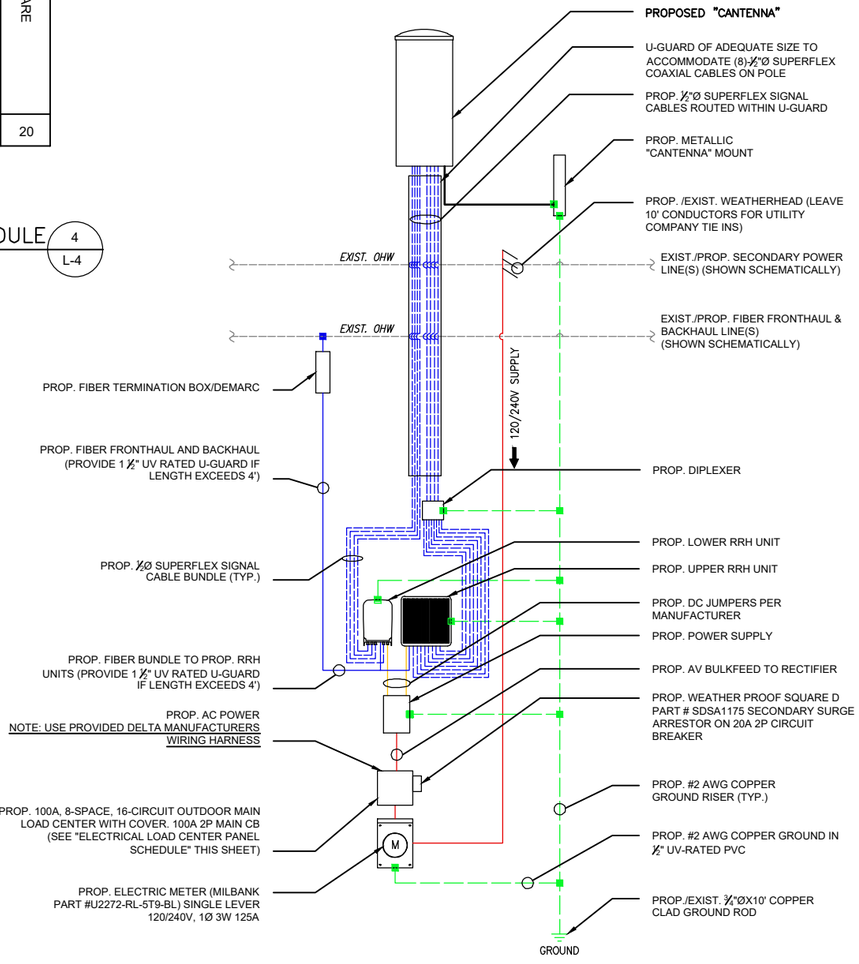
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/18/23

SITE NAME:

CHILMARK_SC11_MA

UTILITY POLE #5/67
215 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000932304
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088026	06/12/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

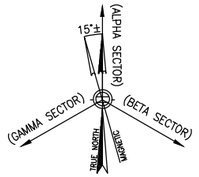
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125064
Customer Application Number	ChilmarkSC11MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 04/24/2024
Date	04/24/2024
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

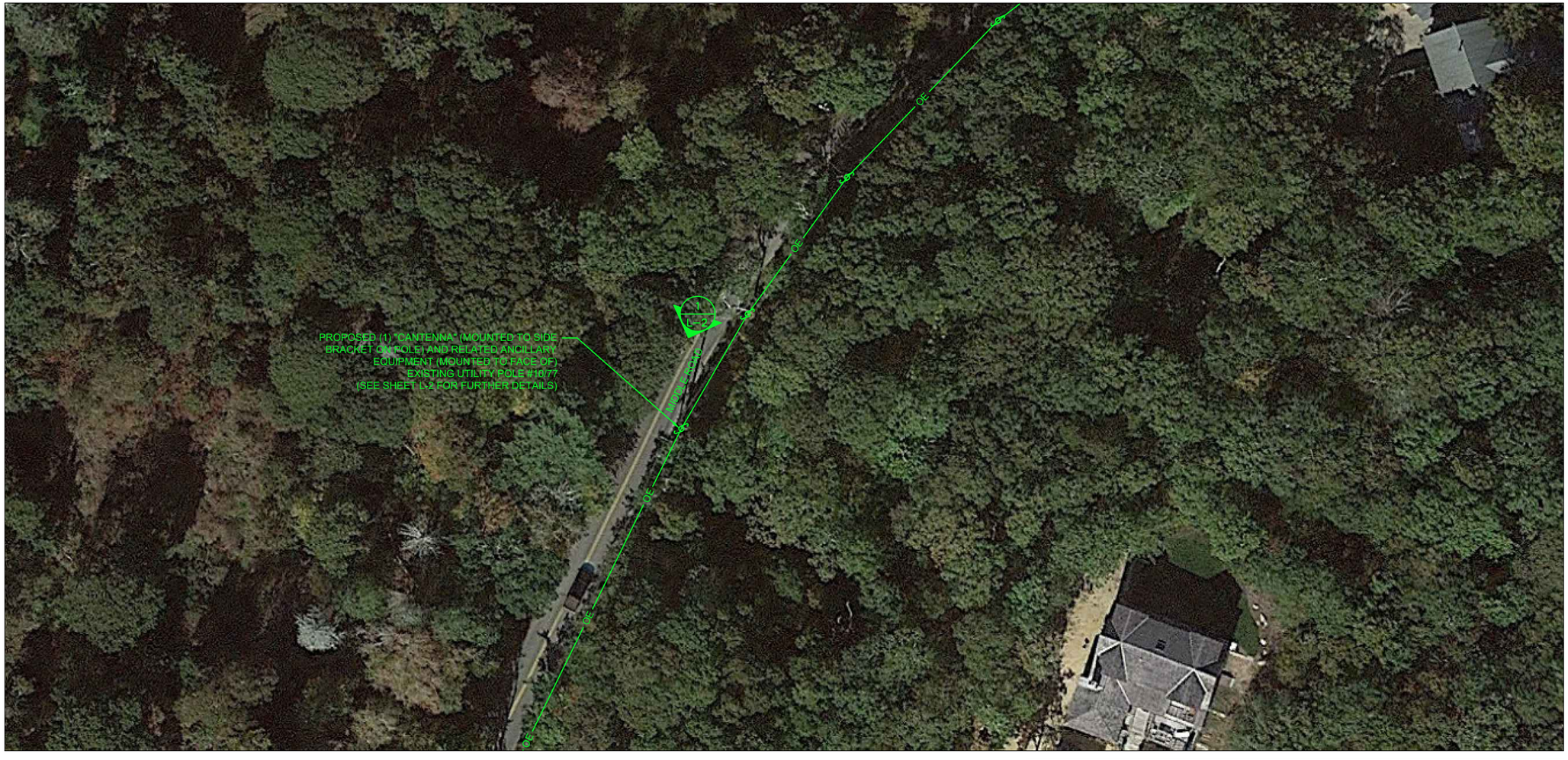
Project Location - Chilmark SC 13, Middle Road near 8 Daisy Lane, Chilmark, MA



SITE NAME: CHILMARK_SC13_MA

CLUSTER: CHILMARK

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/77
N 41.374011° (41°-22'-26.44")
W -70.703330 (70°-42'-11.99")
APPROXIMATE GROUND ELEVATION 82.60'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	2
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	2
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	2
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	2

PRESIDING POWER COMPANY
EVERSOURCE

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

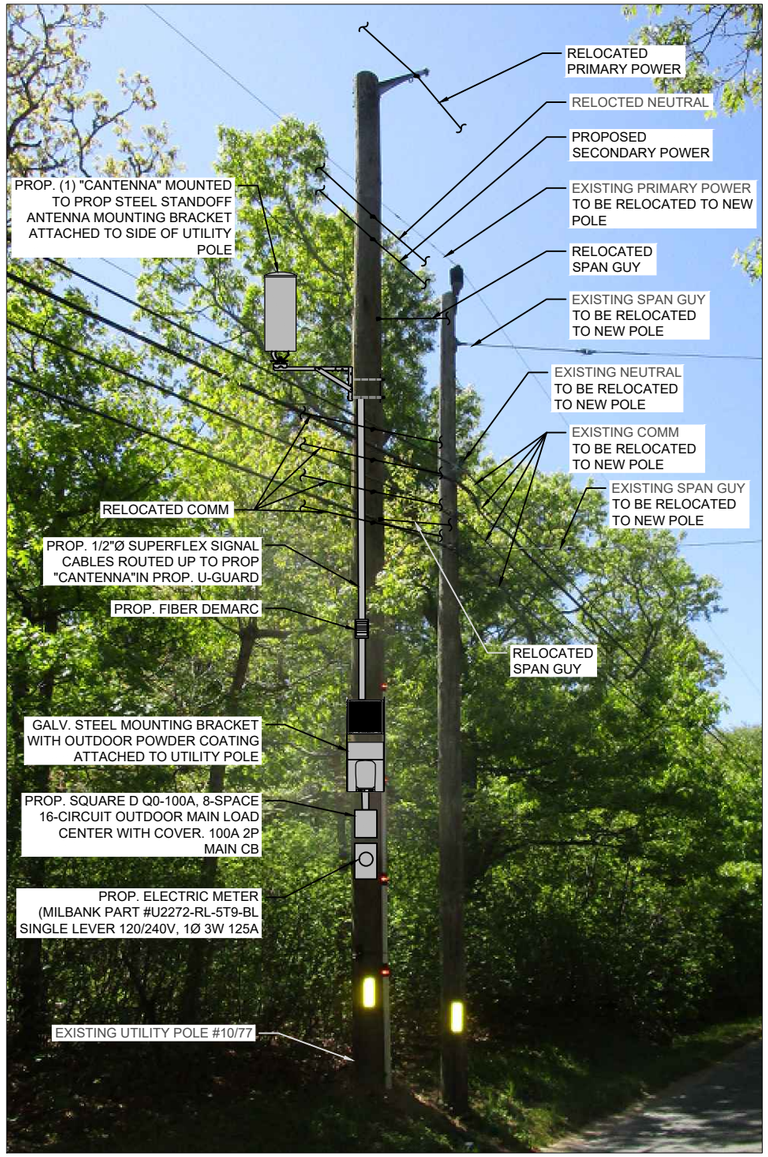
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23

GENERAL NOTES:

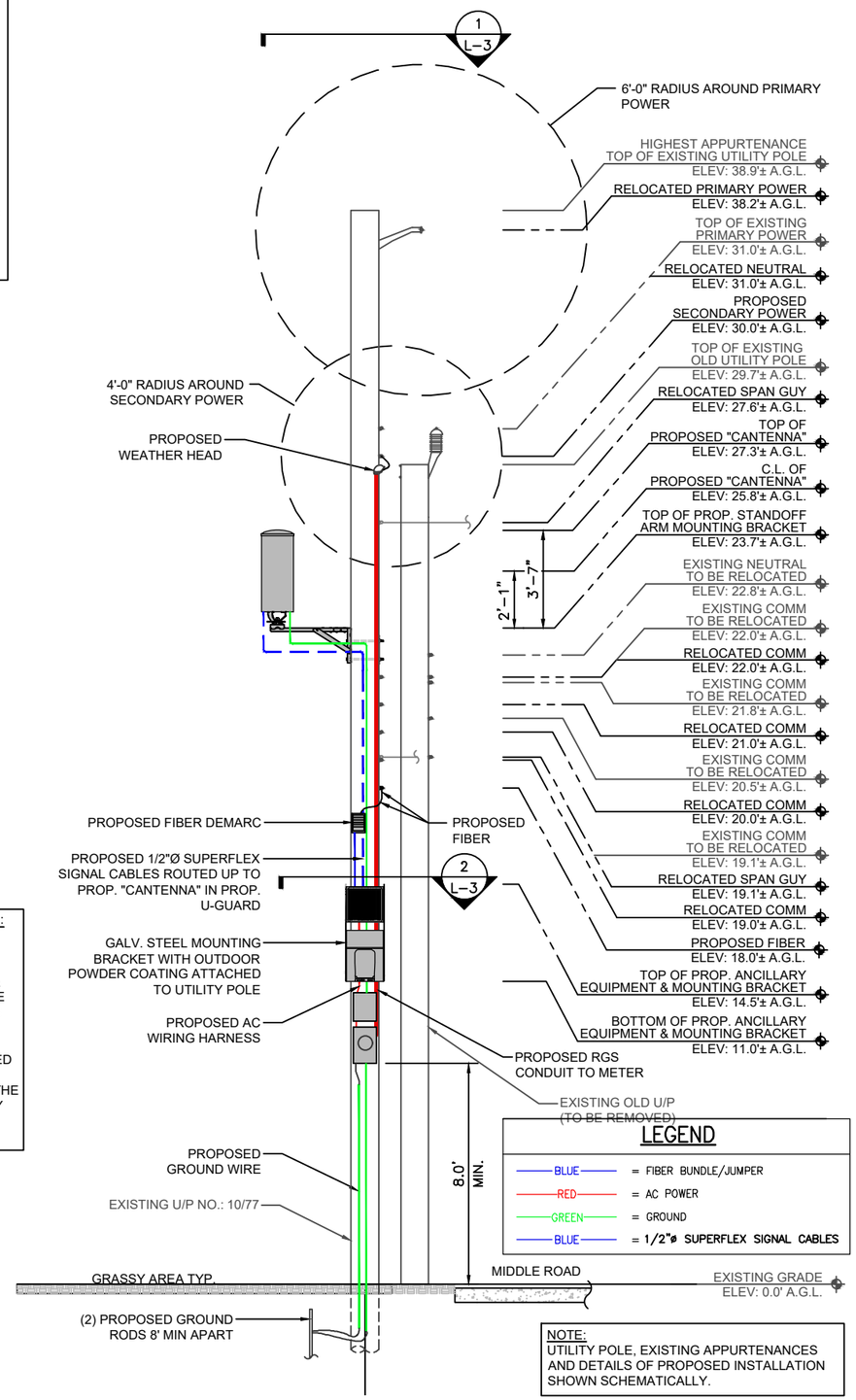
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 10/77 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/77 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC13_MA

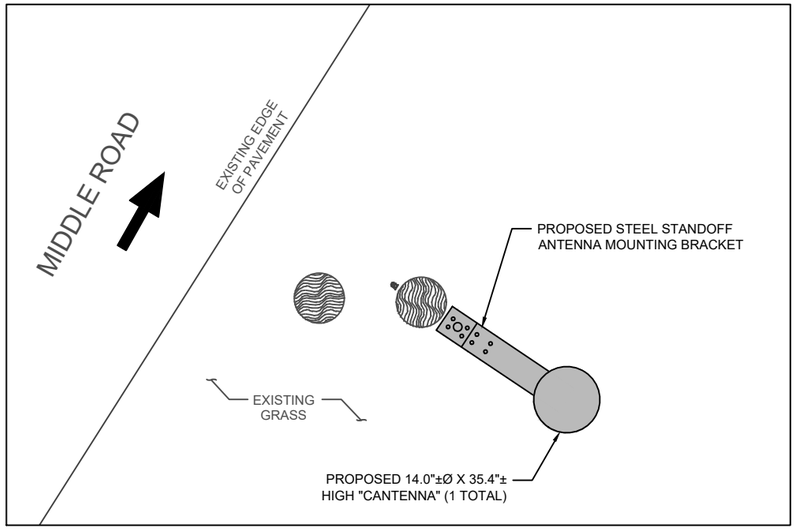
UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

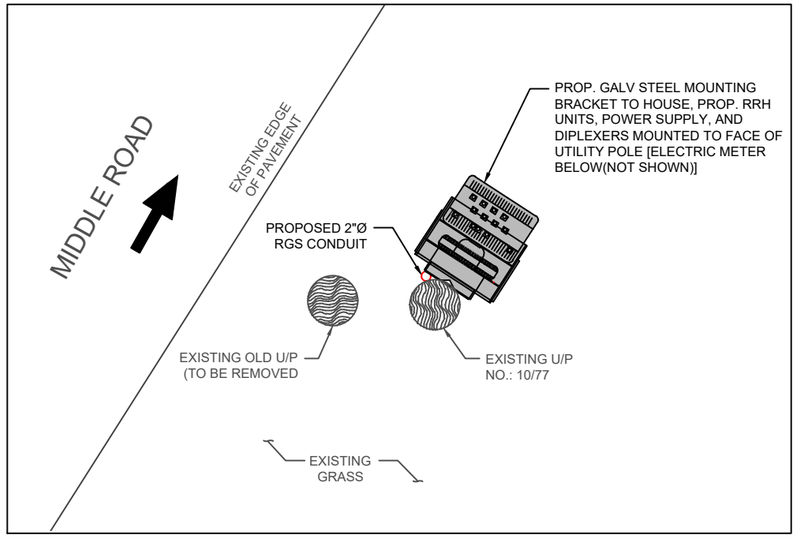
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

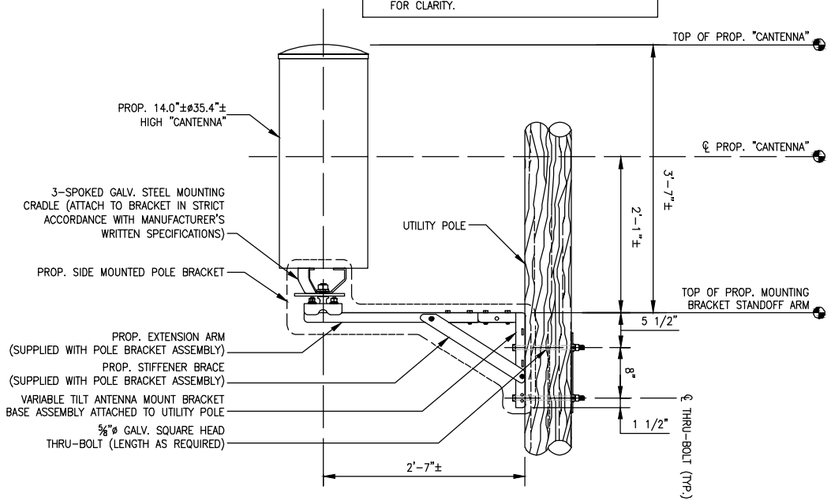
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

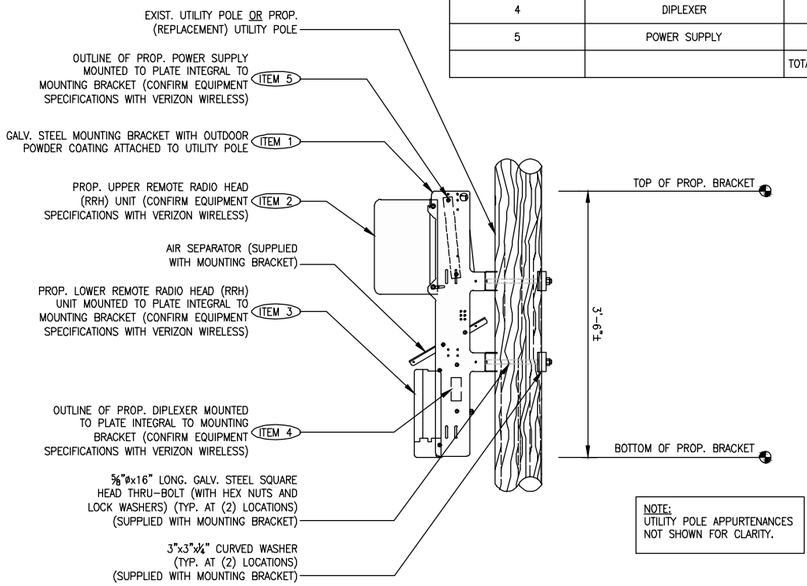
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

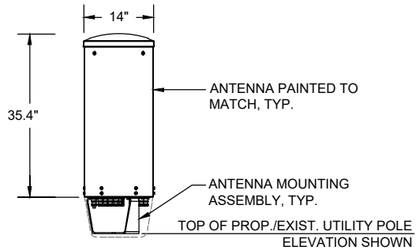
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

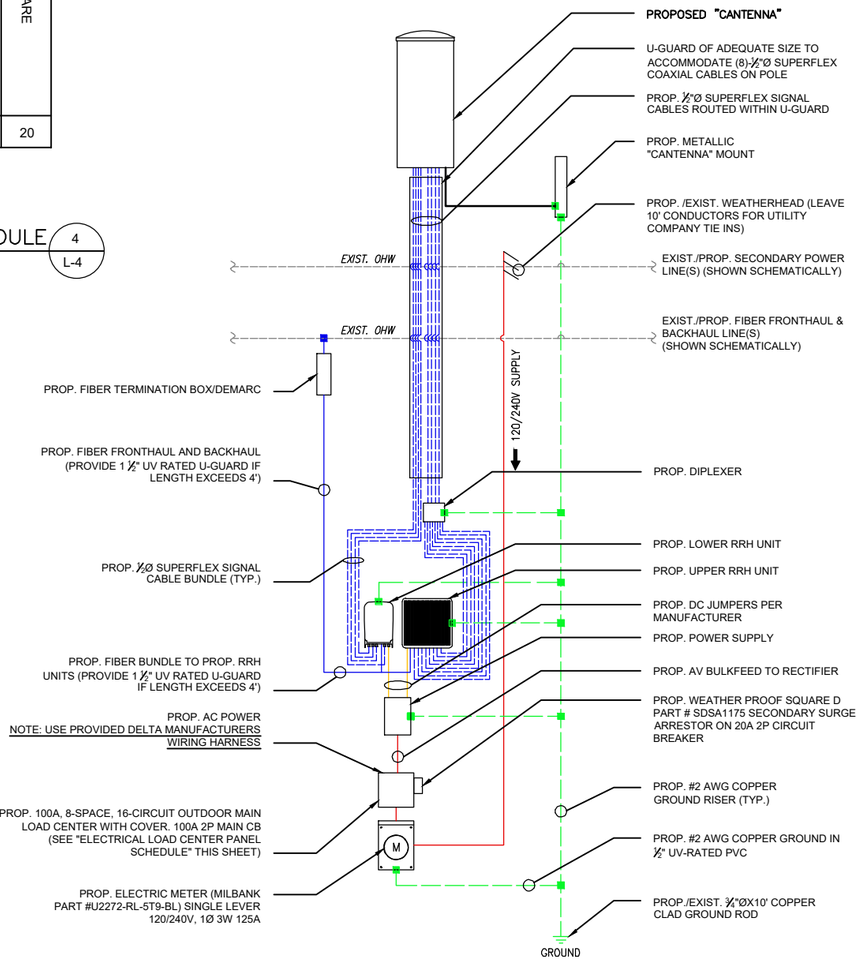
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 24, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC13_MA
FUZE Project ID: 17087872
MDG Location ID: 5000932300
Site Address: 8 Daisy Lane (Pole on Middle Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**20.9**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
38.9'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

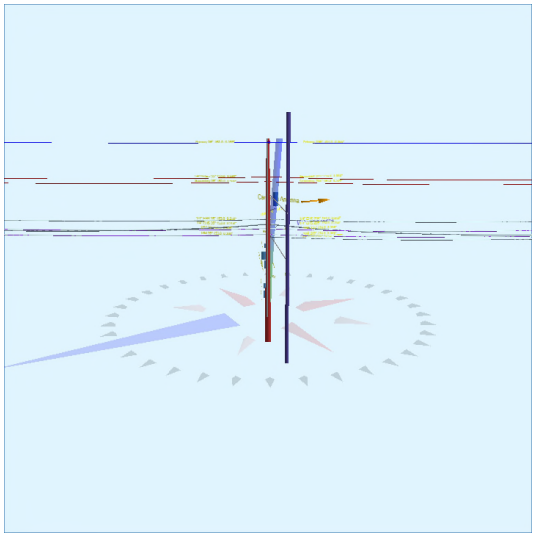
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**10/77**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Angle**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Guy Wires Adequate**
Checked By	**DC**	Setting Depth (ft):	**6.1**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**46.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.30**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**20.9**	0.0	182.7
Groundline	**20.9**	0.0	182.7
Vertical	**1.0**	20.3	113.0

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**35,356**	196.2	182.7
Groundline	**35,356**	196.2	182.7
GL Allowable	**174,643**		

Guy System Component Summary				**Load From Worst Wind Angle on Pole**		**Individual Maximum Load With Overload Applied**	
Description	**Lead Length (ft)**	**Lead Angle (deg)**	**Height (ft)**	**Nominal Capacity (%)**	**Wind Angle (deg)**	**Max* Load Capacity (%)**	**Wind Angle (deg)**
▶ Anchor	26.0	293.0		**10.3**	182.7	**16.7**	120.0
● EHS 3/8 (Span/Head)			27.6	**7.6**	182.7	**13.2**	120.0
● EHS 3/8 (Span/Head)			19.1	**7.2**	182.7	**10.9**	120.0
			System Capacity Summary:	**Adequate**		**Adequate**	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 196.2°

	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	146	7.8	**4,888**	13.8	**2.8**	**191**	730	4	**195**	**2.9**
Comms	1,440	76.6	**26,632**	75.3	**15.3**	**1,041**	2,563	15	**1,057**	**15.5**
GuyBraces	-224	-11.9	**-5,231**	-14.8	**-3.0**	**-205**	21	0	**-204**	**-3.0**
GenericEquipments	85	4.5	**1,081**	3.1	**0.6**	**42**	370	2	**44**	**0.7**
Pole	256	13.6	**4,950**	14.0	**2.8**	**194**	3,339	20	**213**	**3.1**
Crossarms	171	9.1	**2,791**	7.9	**1.6**	**109**	177	1	**110**	**1.6**
Insulators	7	0.4	**245**	0.7	**0.1**	**10**	207	1	**11**	**0.2**
Pole Load	1,880	100.0	**35,356**	100.0	**20.2**	**1,383**	7,408	44	**1,427**	**21.0**
Pole Reserve Capacity			**139,287**		**79.8**	**5,417**			**5,373**	**79.0**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 196.2°

	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 (%)
Existing	297	15.8	**6,738**	19.1	**3.9**	**264**	2,975	18	**281**	**4.1**
Proposed	37	2.0	**1,090**	3.1	**0.6**	**43**	262	2	**44**	**0.6**
Vzw	1,290	68.6	**22,578**	63.9	**12.9**	**883**	832	5	**888**	**13.1**
Pole	256	13.6	**4,950**	14.0	**2.8**	**194**	3,339	20	**213**	**3.1**
Totals:	1,880	100.0	**35,356**	100.0	**20.2**	**1,383**	7,408	44	**1,427**	**21.0**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.20	28.35	0.3550	1.08	0.115	194.0	205.0	194.0	1,065	45,332	-29	148	45,451
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.20	28.35	0.3550	0.73	0.115	153.0	35.0	153.0	1,065	-43,424	-23	346	-43,101
Secondary	TRIPLEX 6 AWG	Existing	31.00	7.41	0.5800	2.68	0.113	194.0	205.0	194.0	357	12,332	-9	140	12,463
Secondary	TRIPLEX 6 AWG	Existing	31.00	7.41	0.5800	1.98	0.113	153.0	35.0	153.0	357	-11,813	-7	327	-11,493
Secondary	TRIPLEX 6 AWG	Proposed	30.00	7.49	0.5800	2.68	0.113	194.0	205.0	194.0	357	11,934	-9	135	12,060
Secondary	TRIPLEX 6 AWG	Proposed	30.00	7.49	0.5800	1.98	0.113	153.0	35.0	153.0	357	-11,432	-7	316	-11,122
											Totals:	**2,930**	**-85**	**1,412**	**4,258**

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	1/4" EHS	Existing	22.00	8.11	0.2500	2.30	0.121	194.0	205.0	194.1	800	19,611	-7	93	19,697
Telco	26 GA 50 PR (0.58)	Existing	21.96	8.11	0.5800		0.180	194.0	205.0	194.1			-8	30	22
Overlashed Bundle	1/4" EHS	Existing	22.00	8.11	0.2500	1.52	0.121	153.0	35.0	153.0	800	-18,786	-6	217	-18,574
Telco	26 GA 50 PR (0.58)	Existing	21.96	8.11	0.5800		0.180	153.0	35.0	153.0			-6	70	64
Overlashed Bundle	1/4" EHS	Existing	21.00	8.19	0.2500	4.40	0.121	194.0	205.0	194.3	800	18,720	-7	92	18,805
Telco	26 GA 50 PR (0.58)	Existing	20.96	8.19	0.5800		0.180	194.0	205.0	194.3			-8	32	24
Telco	26 GA 50 PR (0.58)	Existing	20.91	8.19	0.5800		0.180	194.0	205.0	194.3			-8	31	24
Telco	26 GA 50 PR (0.58)	Existing	20.86	8.19	0.5800		0.180	194.0	205.0	194.3			-8	32	24
Overlashed Bundle	1/4" EHS	Existing	21.00	8.19	0.2500	2.88	0.121	153.0	35.0	153.1	800	-17,932	-5	214	-17,723
Telco	26 GA 50 PR (0.58)	Existing	20.96	8.19	0.5800		0.180	153.0	35.0	153.1			-6	74	68
Telco	26 GA 50 PR (0.58)	Existing	20.91	8.19	0.5800		0.180	153.0	35.0	153.1			-6	73	67
Telco	26 GA 50 PR (0.58)	Existing	20.86	8.19	0.5800		0.180	153.0	35.0	153.1			-6	73	67
Overlashed Bundle	10M	Existing	20.00	8.27	0.3060	1.36	0.165	153.0	35.0	153.0	2,000	-42,695	-7	210	-42,492
CATV	CATV .50	Existing	19.94	8.27	0.5700		0.600	153.0	35.0	153.0			-11	76	64
Overlashed Bundle	10M	Existing	20.00	8.27	0.3060	2.14	0.165	194.0	205.0	194.1	2,000	44,571	-9	90	44,652
CATV	CATV .50	Existing	19.94	8.27	0.5700		0.600	194.0	205.0	194.1			-14	32	18
Overlashed Bundle	10M	Existing	18.75	8.36	0.3060	1.36	0.165	153.0	35.0	153.0	2,000	-40,024	-7	196	-39,835
CATV	CATV .50	Existing	18.69	8.36	0.5700		0.600	153.0	35.0	153.0			-12	71	59
Overlashed Bundle	10M	Existing	18.75	8.36	0.3060	2.14	0.165	194.0	205.0	194.1	2,000	41,784	-9	84	41,859
CATV	CATV .50	Existing	18.69	8.36	0.5700		0.600	194.0	205.0	194.1			-15	30	16
Overlashed Bundle	1/4" EHS	Vzw	18.00	8.42	0.2500	2.47	0.121	194.0	205.0	194.1	800	16,046	67	78	16,191
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	17.96	8.42	0.7560		0.208	194.0	205.0	194.1			76	27	103
											Totals:	**21,295**	**-21**	**1,925**	**23,199**

GenericEquipment		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	Meter	Vzw	5.00	9.33	28.0	0.0	16.25	18.50	4.80	--	10.00	-20	58	37
Box	AC Power	Vzw	7.00	8.91	28.0	0.0	9.93	12.65	4.27	--	8.88	-12	49	37
Box	RRU	Vzw	13.83	11.09	25.0	0.0	102.50	17.30	11.50	--	17.30	-156	240	85
Box	Diplexer	Vzw	11.17	6.95	25.0	0.0	7.60	4.80	3.30	--	7.90	-7	30	23
Box	RRU	Vzw	12.17	7.76	25.0	0.0	21.40	13.90	4.80	--	9.80	-23	108	85
Box	Demarc	Vzw	16.00	7.43	28.0	0.0	2.00	9.60	2.70	--	7.00	-2	67	65
Cylinder	Cantenna Antenna	Vzw	25.78	36.81	240.0	0.0	35.00	35.40	--	14.00	--	128	481	610
											Totals:	**-92**	**1,034**	**942**

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	Bracket	Vzw	12.50	-5.40	205.0	205.0	28.00	42.00	0.50	21.00	-21	681	660
Normal	Riser	Vzw	19.45	7.31	315.0	315.0	37.40	466.80	3.00	3.00	-18	1,786	1,768

Offset	Standoff	Vzw	23.70	2.67	240.0	240.0	28.00	1.50	5.38	31.00	-34	36	3
										Totals:	**-72**	**2,504**	**2,431**

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)**
Davit	Insulator, 15 kV	Existing	38.20	0.00	293.0	293.0	60.00	5.00	24.00	0	188	188
Spool	Spool 3"	Existing	31.00	0.00	293.0	293.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Proposed	30.00	0.00	293.0	293.0	2.00	3.00	3.19	0	12	12
Bolt	Three Bolt	Existing	22.00	0.00	293.0	293.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	21.00	0.00	293.0	293.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.00	0.00	293.0	293.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	18.75	0.00	293.0	293.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	15.1	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	25.8	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	15.1	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	24.20	-32.88	154.1	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	18.00	0.00	205.0	205.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**214**	**214**

Guy Wire and Brace		**Owner**	**Attach Height (ft)**	**End Height (ft)**	**Lead/Span Length (ft)**	**Wire Diameter (in)**	**Percent Solid (%)**	**Lead Angle (deg)**	**Incline Angle (deg)**	**Wire Weight (lbs/ft)**	**Rest Length (ft)**	**Stretch Length (in)**
EHS 3/8	Span/Head	Existing	27.60	27.60	26.00	0.375	75.00	293.0	0.0	0.273	23.79	0.16
EHS 3/8	Span/Head	Existing	19.10	19.10	26.00	0.375	75.00	293.0	0.0	0.273	23.73	0.15

Guy Wire and Brace (Loads and Reactions)		**Elastic Modulus (psi)**	**Rated Tensile Strength (lbs)**	**Guy Strength Factor**	**Allowable Tension (lbs)**	**Initial Tension (lbs)**	**Loaded Tension*² (lbs)**	**Maximum Tension² (lbs)**	**Applied Tension³ (lbs)**	**Vertical Load (lbs)**	**Shear Load In Guy Dir (lbs)**	**Shear Load At Report Angle (lbs)**	**Proportional Moment at GL³ (ft-lb)**
EHS 3/8	Span/Head	2.30e+7	15,400	0.90	13,860	700	1,830	1,664	1,051	0	1,051	-125	-3,159
EHS 3/8	Span/Head	2.30e+7	15,400	0.90	13,860	700	1,511	1,374	1,001	0	1,001	-119	-2,072
									Totals:	**0**	**2,052**	**-243**	**-5,231**

Anchor/Rod Load Summary	**Owner**	**Rod Length AGL (in)**	**Lead Length (ft)**	**Lead Angle (deg)**	**Strength of Assembly (lbs)**	**Anchor/Rod Strength Factor**	**Allowable Load (lbs)**	**Max Load² (lbs)**	**Load at Pole MCU³ (lbs)**	**Max Required Capacity² (%)**
Anchor	Existing	30.00	26.00	293.0	20,000	1.00	20,000	3,342	2,052	16.7

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**
0.71	20.32	33.24	13.59	4.61	8.60	14.65	1.60e+6	60.00	57.00	38.90	756,119	**7408.37**	**100.00**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC13MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC13MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 5/2/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC13MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC13MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC13MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
8 Daisy Lane (pole on Middle Road		N/A	10/77			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: /28/24 ***WO Received Date:*** _____

Service Address: Street: 8 Daisy Lane (pole on Middle Road) Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

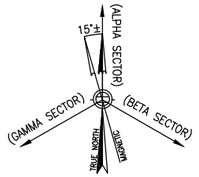
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

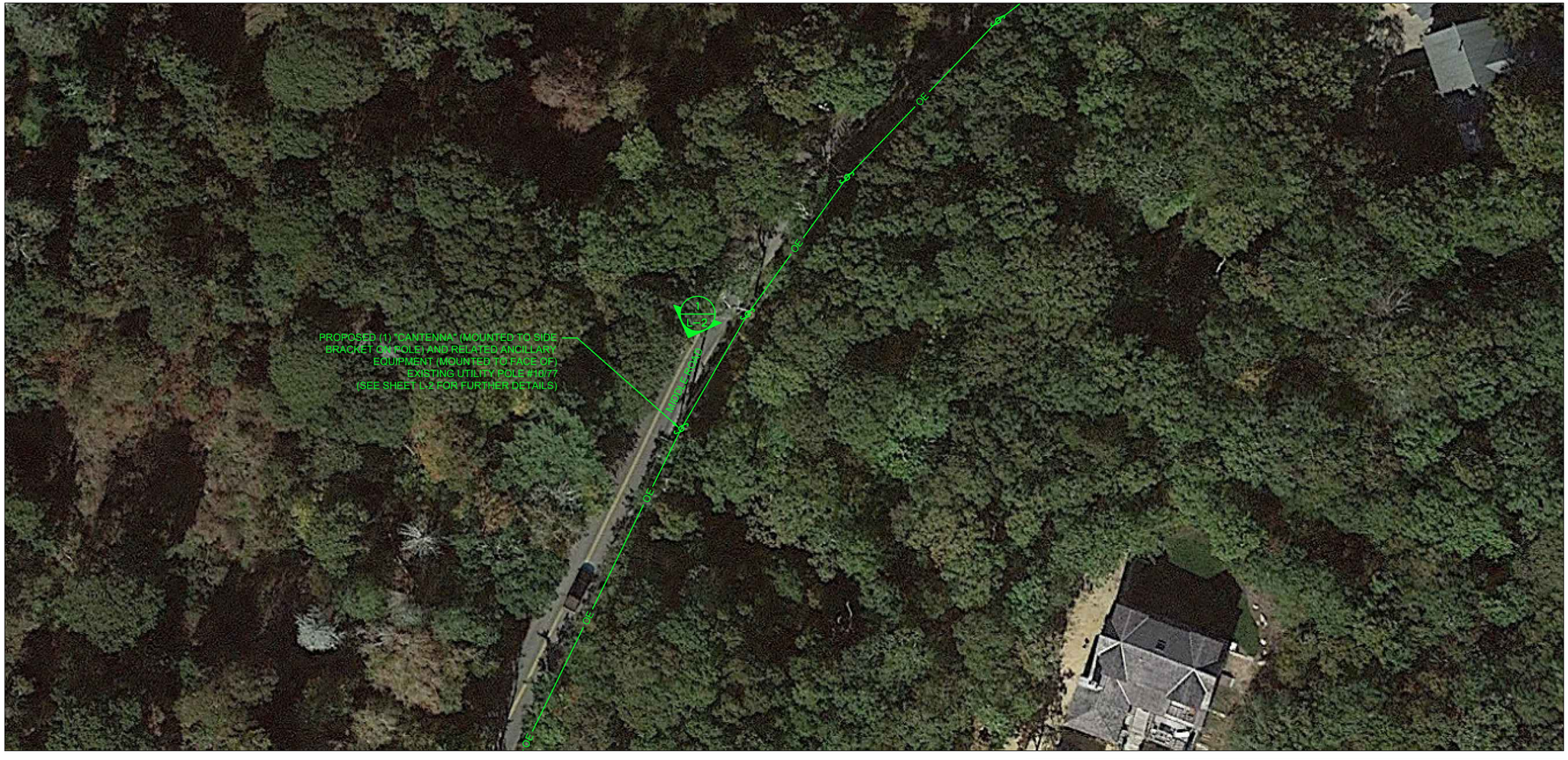
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC13_MA

CLUSTER: CHILMARK

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/77
N 41.374011° (41°-22'-26.44")
W -70.703330 (70°-42'-11.99")
APPROXIMATE GROUND ELEVATION 82.60'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	2
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	2
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	2
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	2

PRESIDING POWER COMPANY
EVERSOURCE

verizon
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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

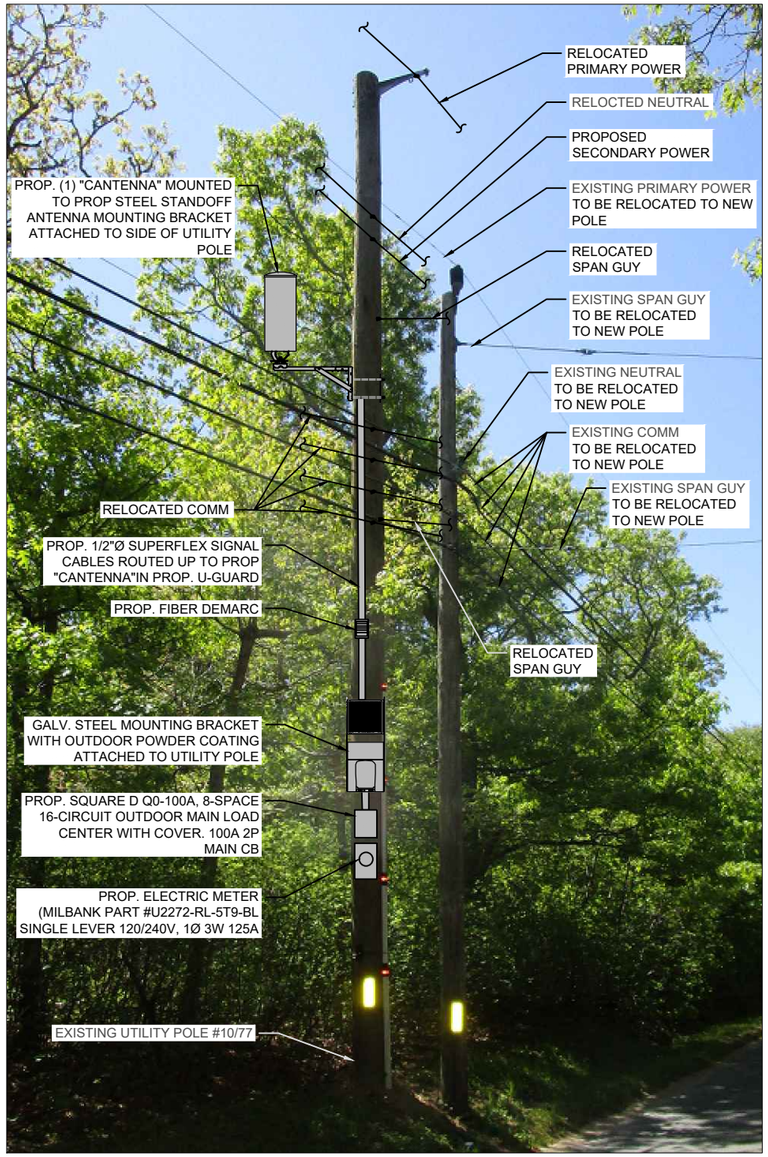
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23

GENERAL NOTES:

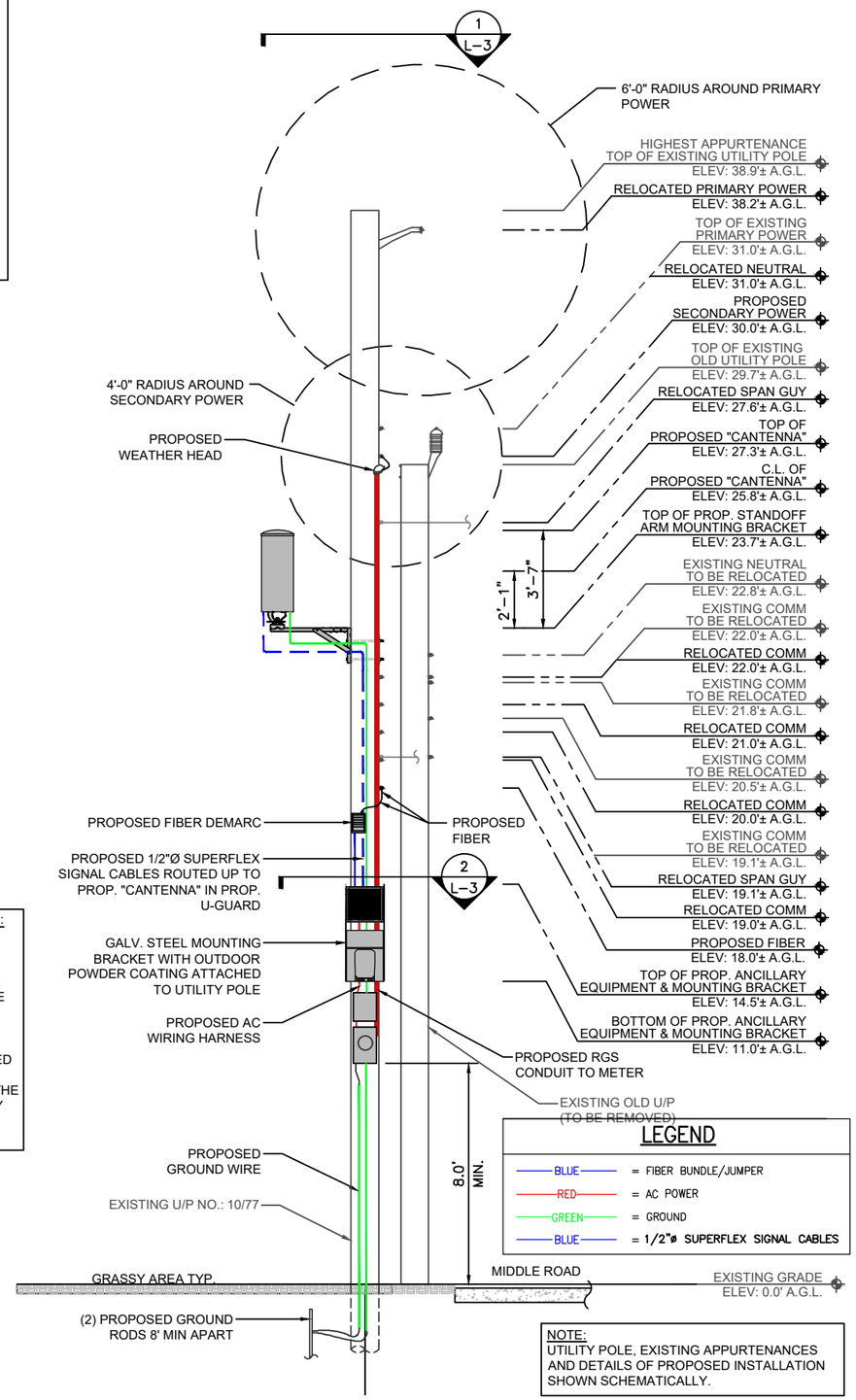
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 10/77 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/77 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC13_MA

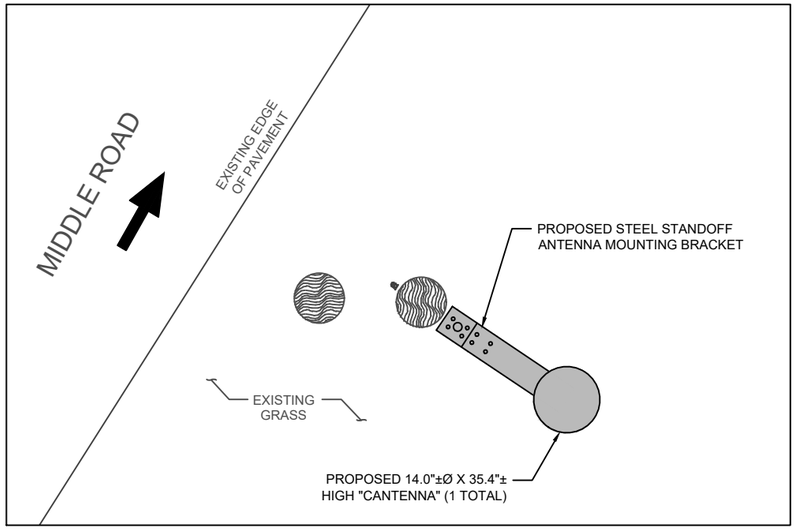
UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

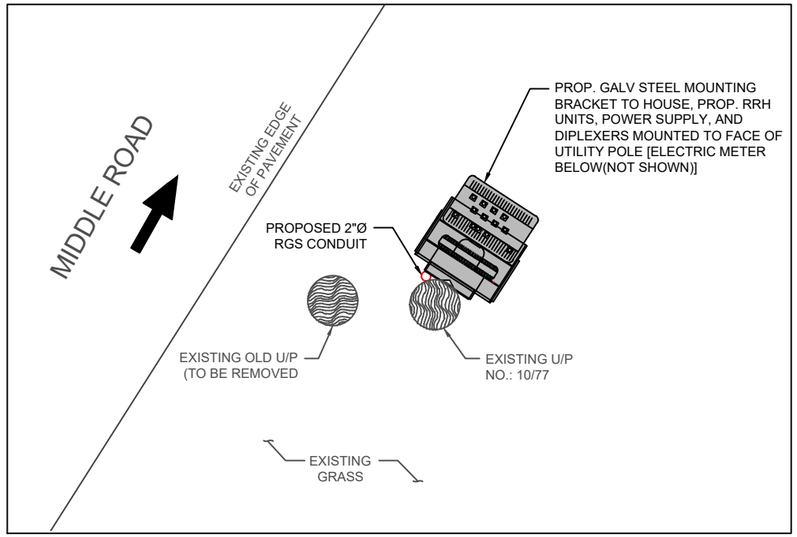
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

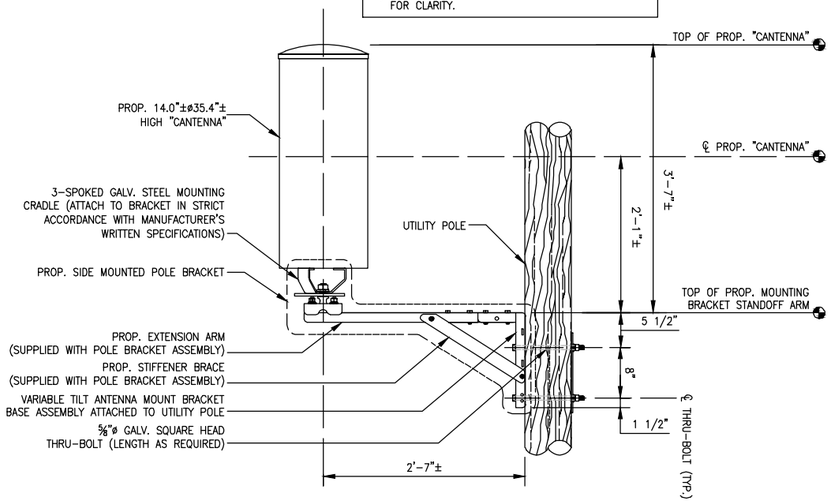
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

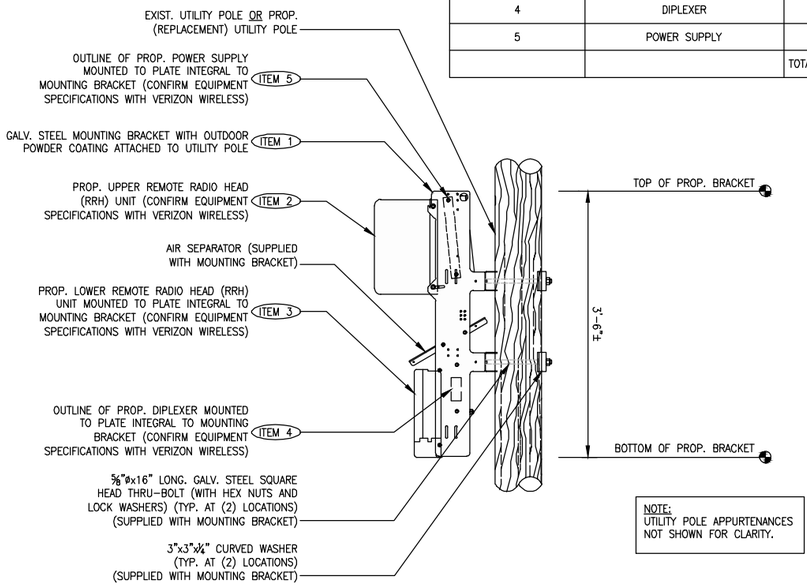
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/20/23
1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

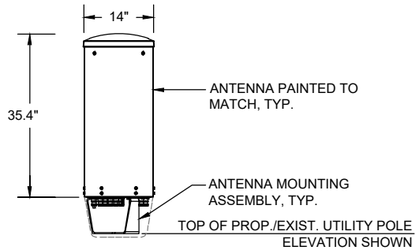
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

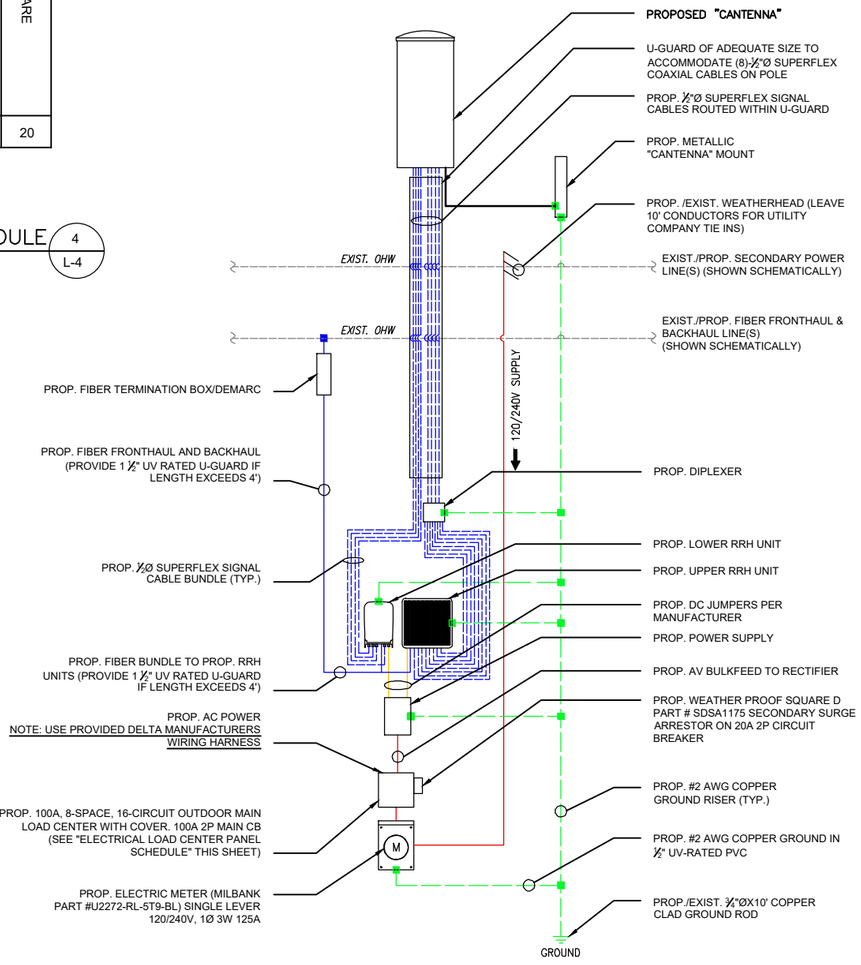
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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REVISIONS

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1	REVISED FOR REVIEW	08/18/23
2	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC13_MA

UTILITY POLE #10/77
8 DAISY LANE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000932300
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087872	06/20/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

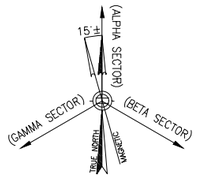
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125066
Customer Application Number	ChilmarkSC13MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/20/2023
Date	12/20/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 16, Middle Road near Cencelle (utility pole #10/37), Chilmark, MA



SITE NAME: CHILMARK_SC16_MA

CLUSTER: CHILMARK

UTILITY POLE #10/37
0 CENCELLE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

PRESIDING POWER COMPANY
EVERSOURCE



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/37
N 41.357077° (41° 21' 25.48")
W -70.723939° (-70° 43' 26.18")
APPROXIMATE GROUND ELEVATION 162.5'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/26/23
1	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC16_MA

UTILITY POLE #10/37
0 CENCELLE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

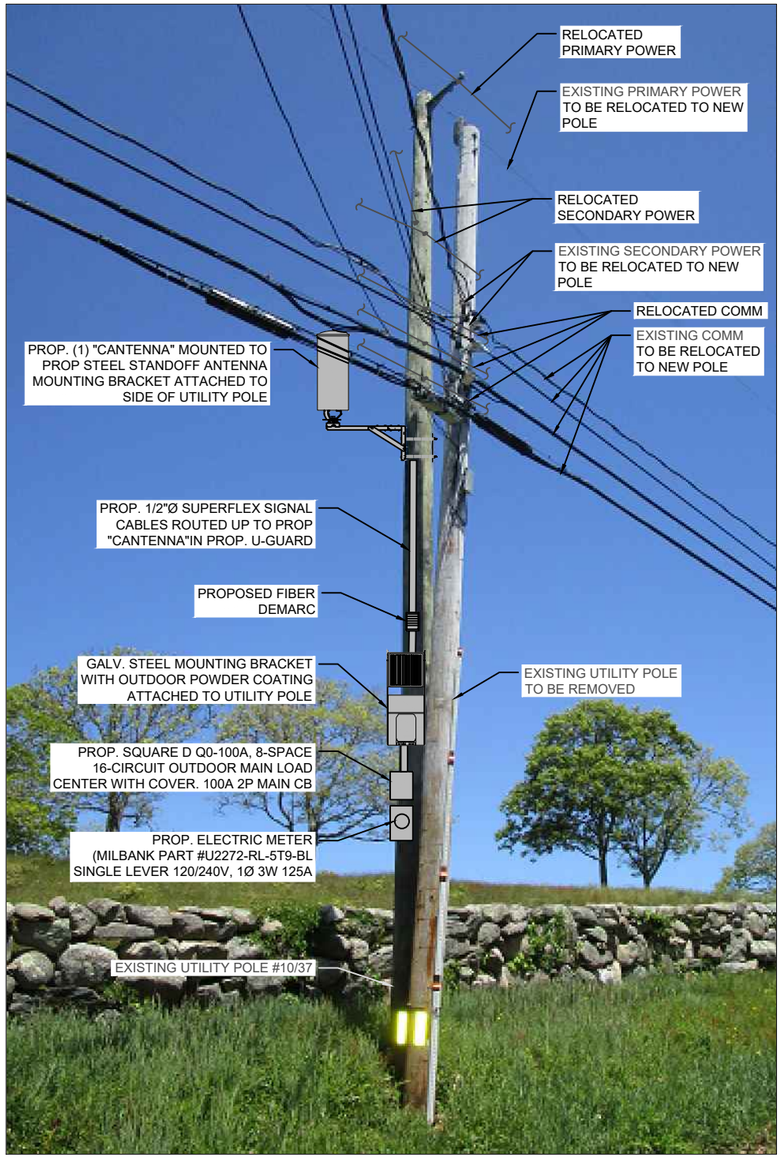
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932306
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087880	06/26/23	05/27/23

GENERAL NOTES:

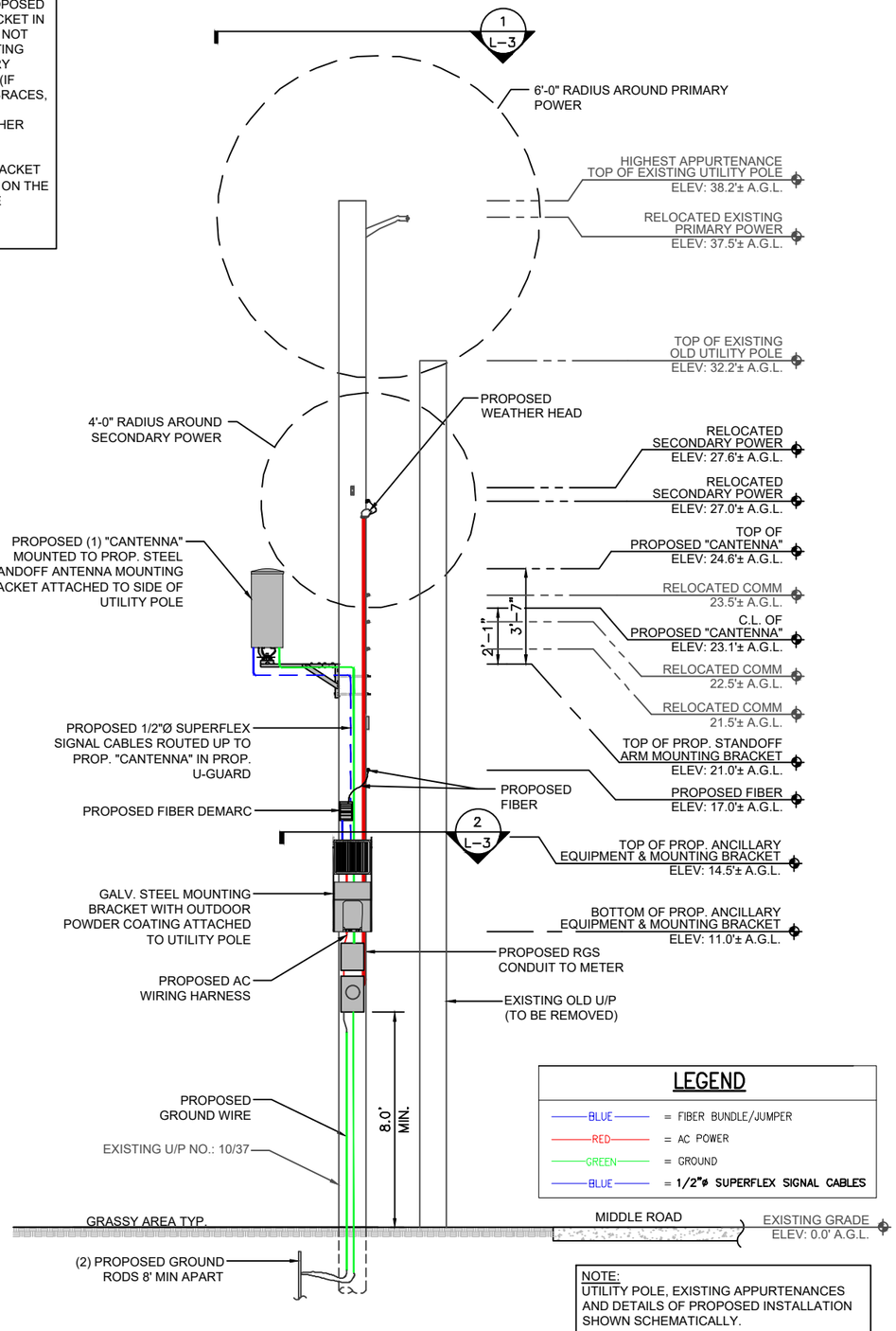
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3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 10/37 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/37 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/26/23
1	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC16_MA

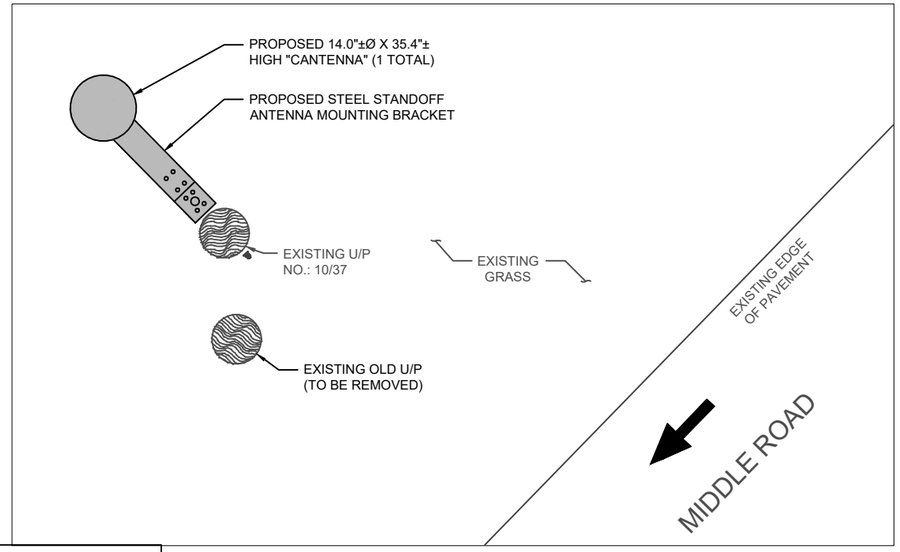
UTILITY POLE #10/37
0 CENCELLE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932306
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087880	06/26/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

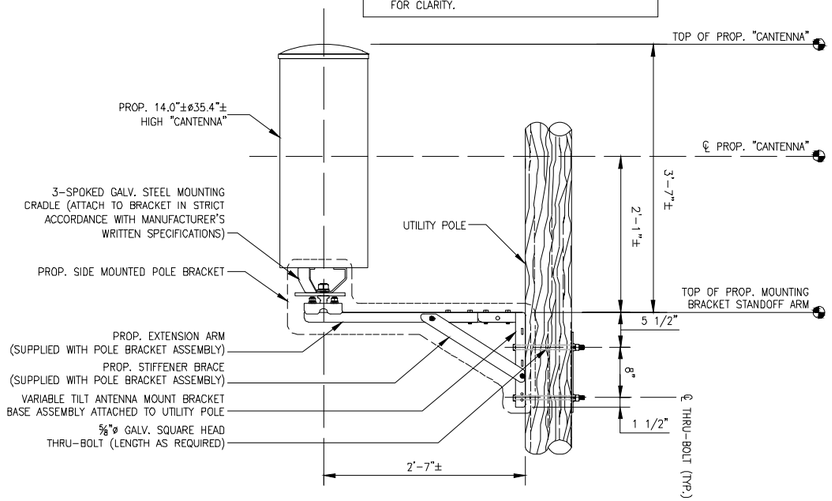
0 1'-4" 2'-8" 4'-0"

NORTH

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

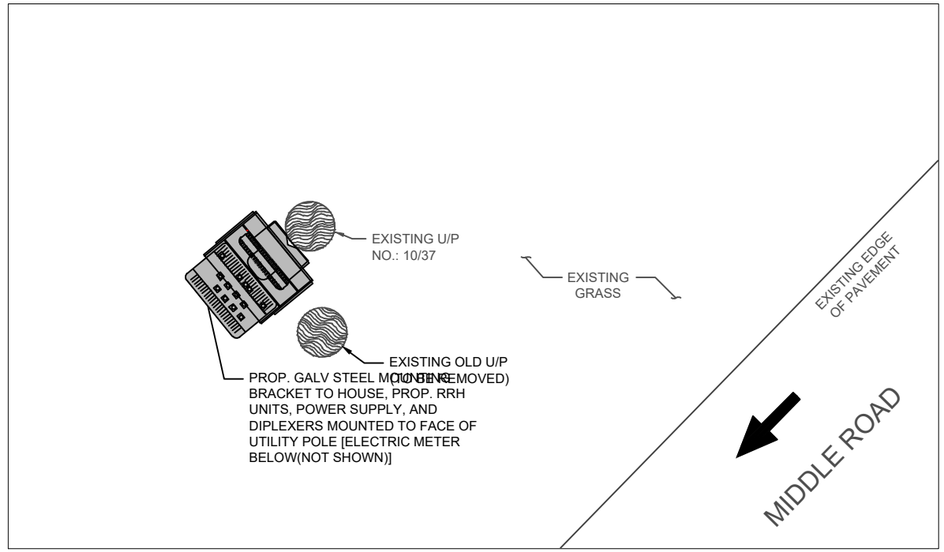
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

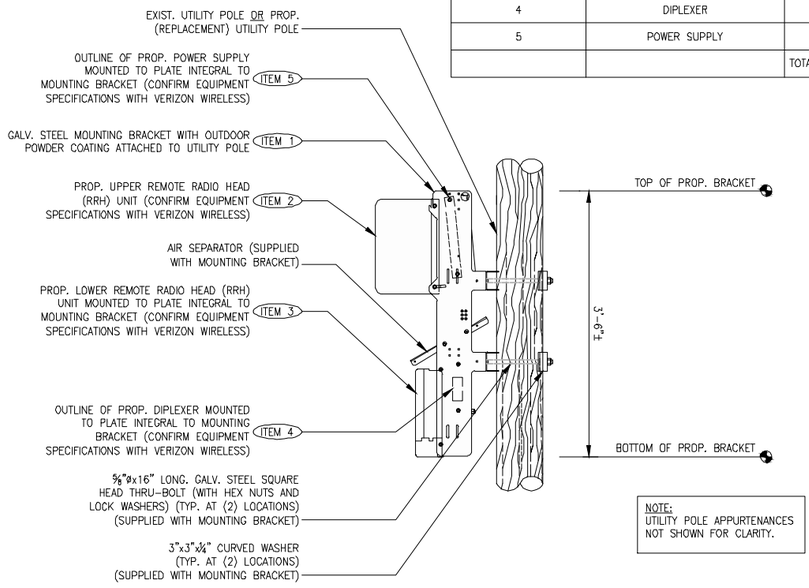
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/26/23
1	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC16_MA

UTILITY POLE #10/37
0 CENCELLE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

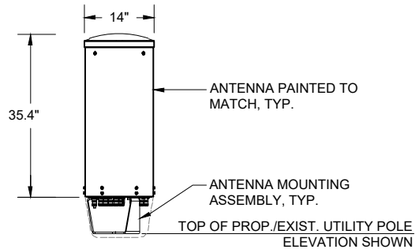
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932306
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087880	06/26/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL 1 / L-4

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS 2 / L-4

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS 3 / L-4

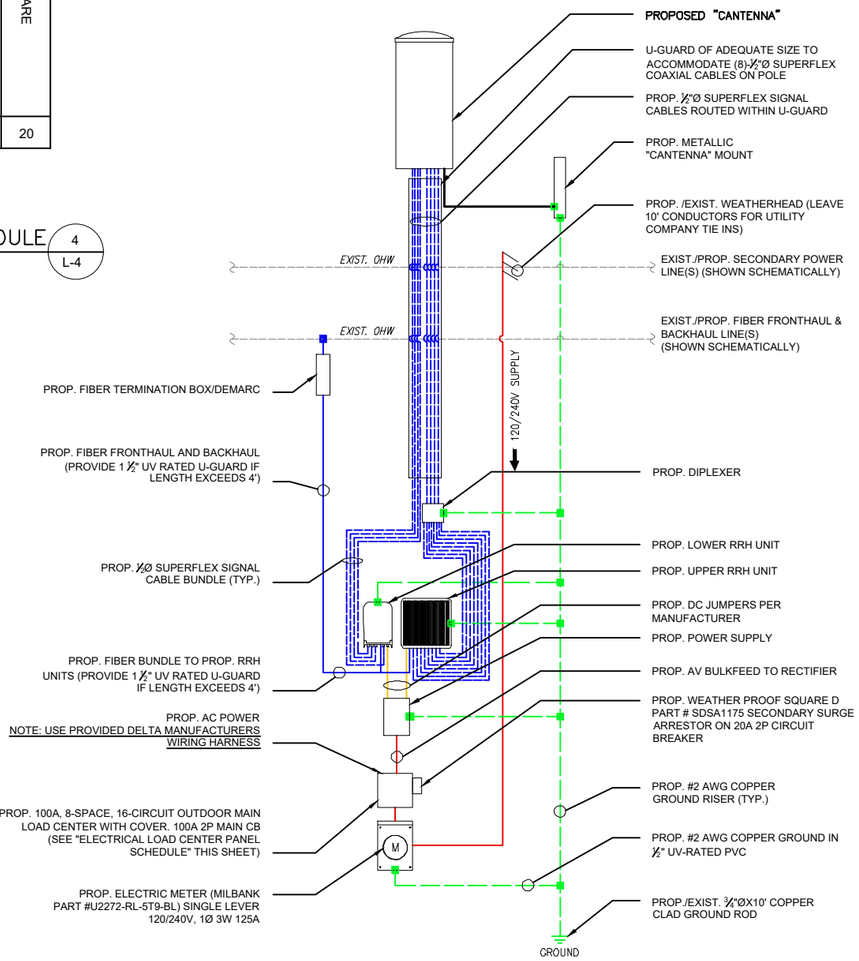
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE 4 / L-4

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM 5 / L-4

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/26/23
1	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC16_MA

UTILITY POLE #10/37
0 CENCELLE (POLE ON MIDDLE ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932306
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087880	06/26/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 13, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC16_MA
FUZE Project ID: 17087880
MDG Location ID: 5000932306
Site Address: 0 Cencelle (Pole on Middle Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**59.6**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
38.2'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

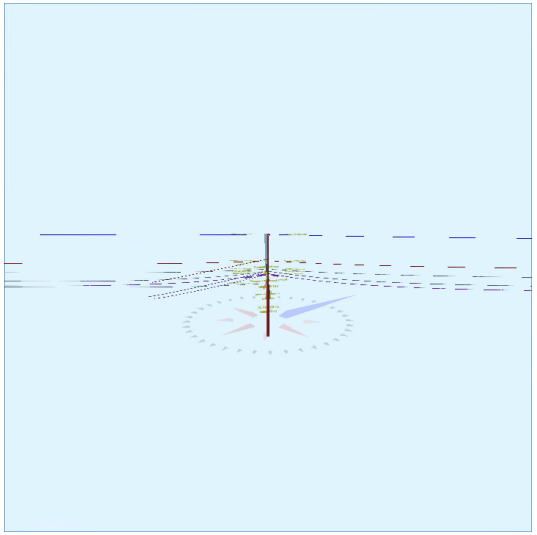
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**10/37**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**6.8**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**42.67**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**59.6**	0.0	137.0
Groundline	**59.6**	0.0	137.0
Vertical	**10.9**	20.9	137.0

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**81,981**	158.8	137.0
Groundline	**81,981**	158.8	137.0
GL Allowable	**139,412**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 158.8°

	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	678	19.8	**22,375**	27.3	**16.1**	**1,052**	644	4	**1,056**	**15.5**
Comms	2,259	66.1	**50,654**	61.8	**36.3**	**2,381**	3,016	21	**2,401**	**35.3**
GenericEquipments	87	2.5	**1,270**	1.6	**0.9**	**60**	379	3	**62**	**0.9**
Pole	229	6.7	**4,588**	5.6	**3.3**	**216**	2,970	20	**236**	**3.5**
Crossarms	155	4.5	**2,698**	3.3	**1.9**	**127**	177	1	**128**	**1.9**
Insulators	11	0.3	**395**	0.5	**0.3**	**19**	198	1	**20**	**0.3**
Pole Load	3,419	100.0	**81,981**	100.0	**58.8**	**3,853**	7,384	51	**3,904**	**57.4**
Pole Reserve Capacity			**57,431**		**41.2**	**2,947**			**2,896**	**42.6**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 158.8°

	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 (%)
Existing	2,490	72.8	**65,279**	79.6	**46.8**	**3,068**	3,552	25	**3,093**	**45.5**
Vzw	699	20.5	**12,114**	14.8	**8.7**	**569**	863	6	**575**	**8.5**
Pole	229	6.7	**4,588**	5.6	**3.3**	**216**	2,970	20	**236**	**3.5**
Totals:	3,419	100.0	**81,981**	100.0	**58.8**	**3,853**	7,384	51	**3,904**	**57.4**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.81	43.28	0.3550	1.62	0.115	219.0	44.0	219.0	1,065	-18,017	408	3,159	-14,449
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	38.81	43.28	0.3550	1.69	0.115	225.0	223.0	225.0	1,065	18,694	420	3,216	22,329
Secondary	TRIPLEX 6 AWG	Existing	27.60	7.49	0.5800	0.61	0.113	54.0	182.0	54.0	333	8,769	24	198	8,992
Secondary	TRIPLEX 6 AWG	Existing	27.00	7.53	0.5800	3.27	0.113	219.0	44.0	219.1	357	-4,202	86	2,563	-1,553
Secondary	TRIPLEX 6 AWG	Existing	27.00	7.53	0.5800	3.40	0.113	225.0	223.0	225.1	357	4,359	89	2,609	7,056
											Totals:	**9,604**	**1,027**	**11,745**	**22,375**

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	1/4" EHS	Existing	23.50	7.76	0.2500	3.44	0.121	219.0	44.0	219.1	800	-8,195	65	2,088	-6,041

Telco	26 GA 50 PR (0.58)	Existing	23.46	7.76	0.5800		0.180	219.0	44.0	219.1			72	675	747
Overlashed Bundle	1/4" EHS	Existing	23.50	7.76	0.2500	3.60	0.121	225.0	223.0	225.1	800	8,503	67	2,126	10,695
Telco	26 GA 50 PR (0.58)	Existing	23.46	7.76	0.5800		0.180	225.0	223.0	225.1			74	687	761
Overlashed Bundle	1/4" EHS	Existing	22.50	7.82	0.2500	5.75	0.121	219.0	44.0	219.4	800	-7,846	46	1,790	-6,011
Telco	26 GA 50 PR (0.58)	Existing	22.48	7.53	0.5800		0.180	219.0	44.0	219.4			50	438	488
Telco	26 GA 50 PR (0.58)	Existing	22.48	8.12	0.5800		0.180	219.0	44.0	219.4			55	438	492
Telco	26 GA 50 PR (0.58)	Existing	22.44	7.82	0.5800		0.180	219.0	44.0	219.4			52	437	489
Overlashed Bundle	1/4" EHS	Existing	22.50	7.82	0.2500	6.03	0.121	225.0	223.0	225.4	800	8,141	47	1,822	10,009
Telco	26 GA 50 PR (0.58)	Existing	22.48	7.53	0.5800		0.180	225.0	223.0	225.4			52	445	497
Telco	26 GA 50 PR (0.58)	Existing	22.48	8.12	0.5800		0.180	225.0	223.0	225.4			56	450	506
Telco	TELE 1.0	Existing	22.03	29.74	1.0000	0.06	0.400	54.0	182.0	54.0	333	6,921	21	198	7,140
Telco	26 GA 50 PR (0.58)	Existing	22.44	7.82	0.5800		0.180	225.0	223.0	225.4			54	449	503
Overlashed Bundle	10M	Existing	21.50	7.89	0.3060	6.36	0.165	219.0	44.0	219.6	2,000	-18,743	50	1,699	-16,994
CATV	CATV .50	Existing	21.48	7.59	0.5700		0.600	219.0	44.0	219.6			96	406	503
CATV	CATV .50	Existing	21.48	8.18	0.5700		0.600	219.0	44.0	219.6			105	689	794
CATV	CATV .50	Existing	21.43	7.89	0.5700		0.600	219.0	44.0	219.6			101	406	506
Overlashed Bundle	10M	Existing	21.50	7.89	0.3060	6.70	0.165	225.0	223.0	225.6	2,000	19,447	52	1,729	21,228
CATV	CATV .50	Existing	21.48	7.59	0.5700		0.600	225.0	223.0	225.6			99	694	793
CATV	CATV .50	Existing	21.37	7.55	0.5700	0.52	0.600	54.0	182.0	54.0	333	6,788	25	152	6,966
CATV	CATV .50	Existing	21.37	7.55	0.5700	0.52	0.600	54.0	182.0	54.0	333	6,788	25	152	6,966
CATV	CATV .50	Existing	21.48	8.18	0.5700		0.600	225.0	223.0	225.6			108	694	801
CATV	CATV .50	Existing	21.43	7.89	0.5700		0.600	225.0	223.0	225.6			103	413	516
Overlashed Bundle	1/4" EHS	Vzw	17.00	8.18	0.2500	3.66	0.121	219.0	223.0	219.1	800	6,151	39	1,540	7,729
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	16.96	8.18	0.7560		0.208	219.0	223.0	219.1			44	527	571
												Totals:	**27,956**	**1,555**	**21,143**	**50,654**

GenericEquipment		**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	Generic Equipment	Existing	18.50	7.58	123.0	0.0	5.00	12.00	4.00	--	10.00	5	151	156
Box	Meter	Vzw	5.00	8.86	123.0	0.0	16.25	18.50	4.80	--	10.00	19	64	83
Box	AC Power	Vzw	7.00	8.47	123.0	0.0	9.93	12.65	4.27	--	8.88	11	54	65
Box	RRU	Vzw	13.33	11.43	123.0	0.0	102.50	17.30	11.50	--	17.30	146	255	402
Box	Diplexer	Vzw	10.67	7.29	123.0	0.0	7.60	4.80	3.30	--	7.90	7	31	38
Box	RRU	Vzw	11.67	8.10	123.0	0.0	21.40	13.90	4.80	--	9.80	21	113	134
Box	Demarc	Vzw	16.00	7.10	123.0	0.0	2.00	9.60	2.70	--	7.00	2	73	75
Cylinder	Cantenna Antenna	Vzw	23.13	36.81	30.0	0.0	35.00	35.40	--	14.00	--	-171	488	317
											Totals:	**41**	**1,229**	**1,270**

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	Bracket	Vzw	12.00	-5.74	303.0	303.0	28.00	42.00	0.50	21.00	21	675	696
Normal	Riser	Vzw	19.10	7.04	315.0	315.0	37.40	458.40	3.00	3.00	-40	1,969	1,929

Offset	Standoff	Vzw	21.00	2.61	30.0	30.0	28.00	1.50	5.38	31.00	48	25	73
										Totals:	**30**	**2,668**	**2,698**

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)**
Davit	Insulator, 15 kV	Existing	37.50	0.00	123.0	123.0	60.00	5.00	42.00	0	369	369
Spool	Spool 3"	Existing	27.60	0.00	182.0	182.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Existing	27.00	0.00	123.0	123.0	2.00	3.00	3.19	0	12	12
Bolt	Three Bolt	Existing	23.50	0.00	123.0	123.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	22.50	0.00	123.0	123.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	21.50	0.00	123.0	123.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.00	-9.06	113.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.00	-24.07	123.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.33	2.94	113.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	21.54	-32.88	304.0	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	17.00	0.00	223.0	223.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**395**	**395**

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	20.86	33.01	12.68	7.80	8.60	13.59	1.60e+6	60.00	57.00	38.20	68,021	**677.46**	**9.17**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC16MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC16MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 2/5/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC16MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC16MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC16MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
0 CENCELLE (POLE ON MIDDLE ROAD)		N/A	10/37			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 0 CENCELLE Suite: ___ Town Chilmark Zip: 02535
(POLE ON MIDDLE ROAD)

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

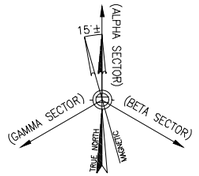
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

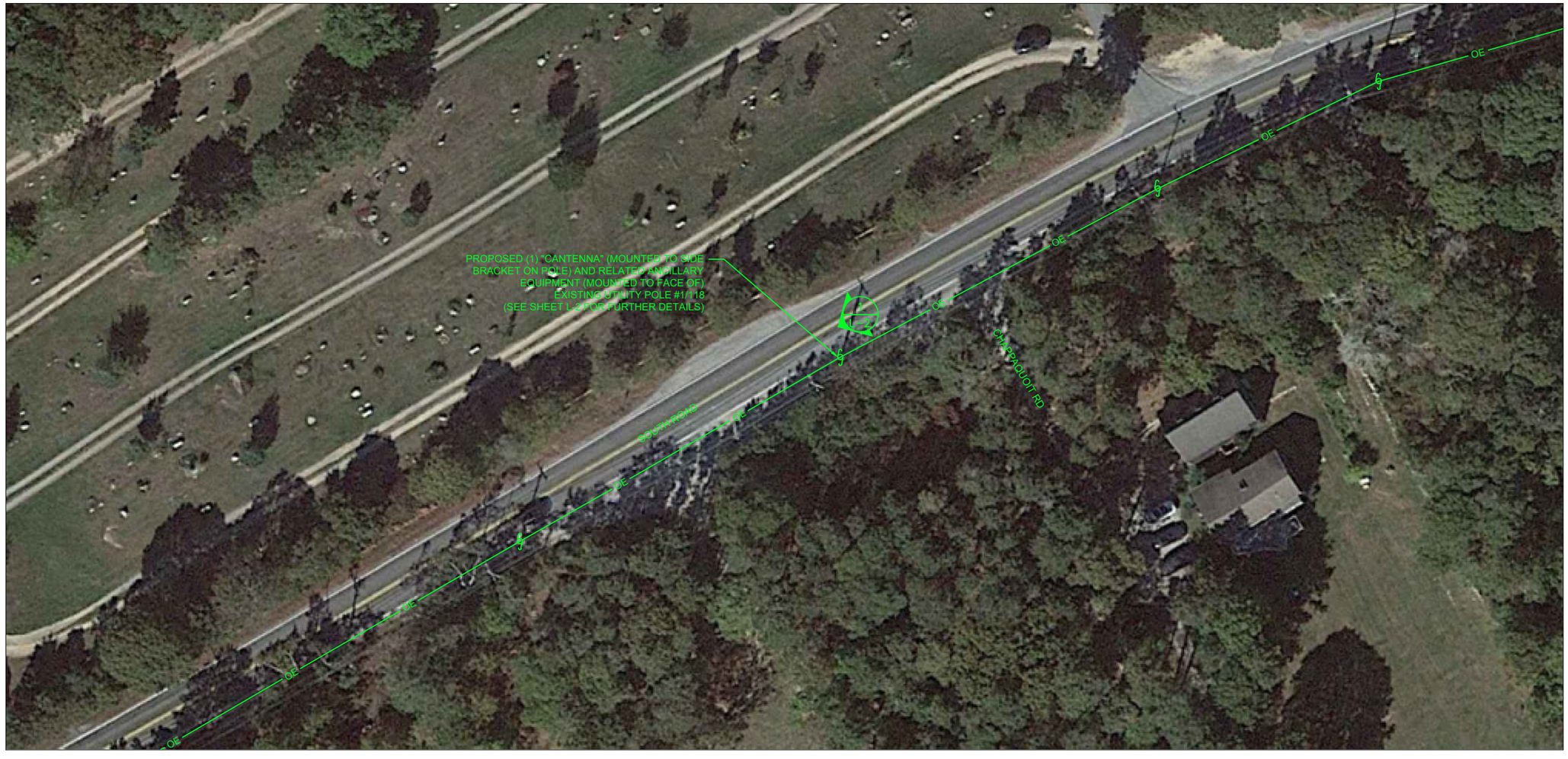
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC15_MA

CLUSTER: CHILMARK

UTILITY POLE #1/118
5 CHAPPAQUOIT ROAD (POLE ON SOUTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #1/118
N 41.348142° (41° 20' 53.31")
W -70.709894° (70° 42' 35.62")
APPROXIMATE GROUND ELEVATION 83.8'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & CILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/23/23
1	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC15_MA

UTILITY POLE #1/118
5 CHAPPAQUOIT ROAD (POLE ON SOUTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

DRAWING NO:
L-1

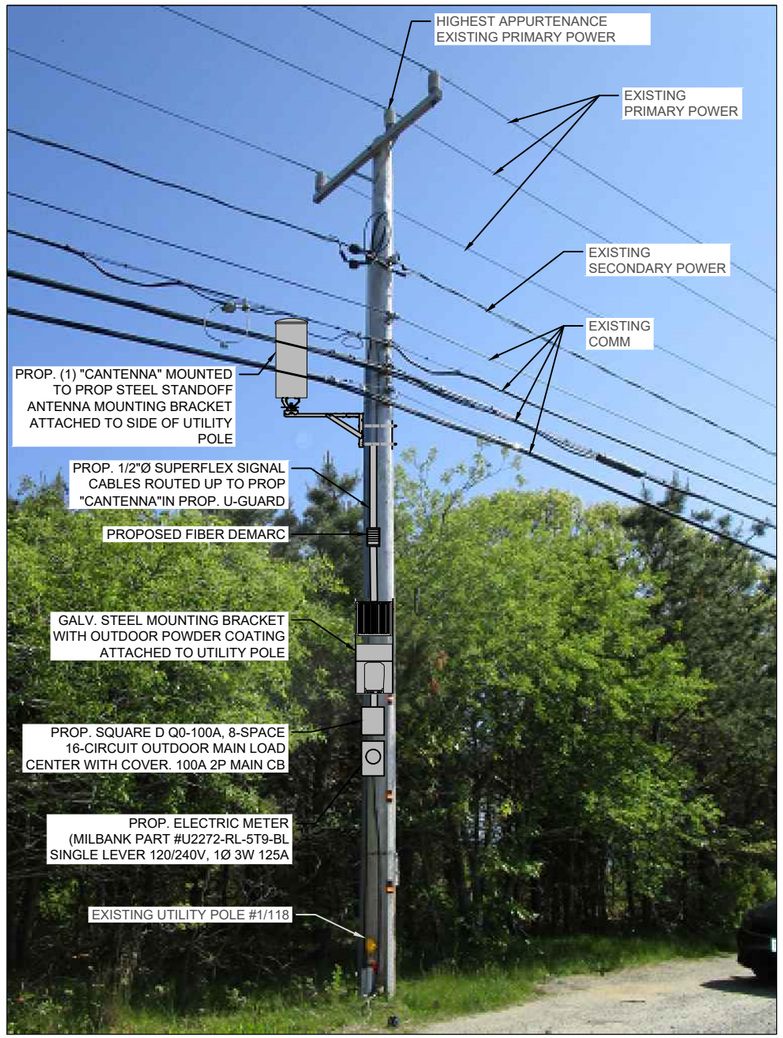
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932305
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087885	06/23/23	05/27/23

GENERAL NOTES:

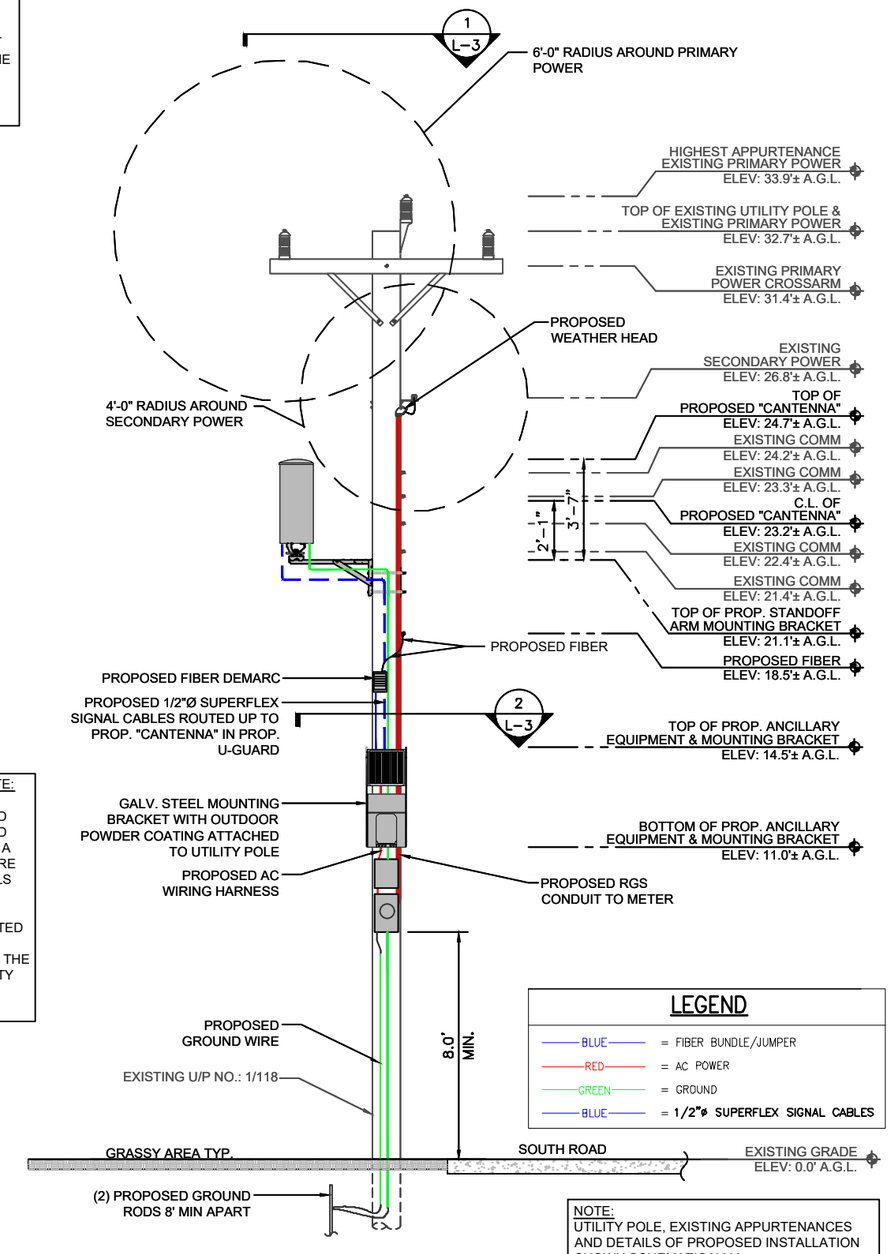
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE



UTILITY POLE # 1/118 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 1/118 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: ############
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/22/23

SITE NAME:
CHILMARK_SC15_MA

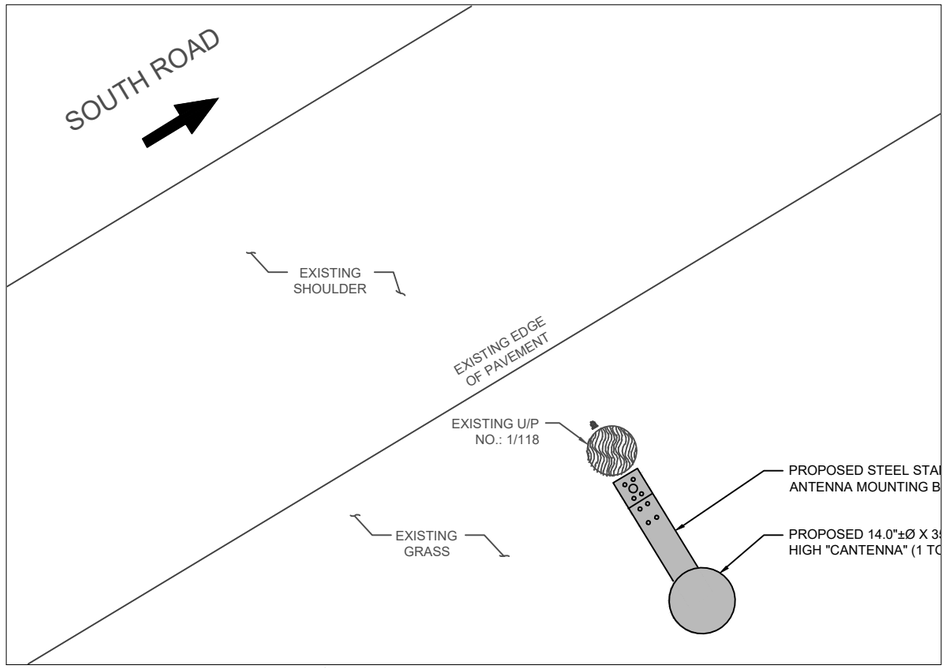
UTILITY POLE #1/118
5 CHAPPAQUOIT ROAD (POLE ON SOUTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932305
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087885	06/23/23	05/27/23



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

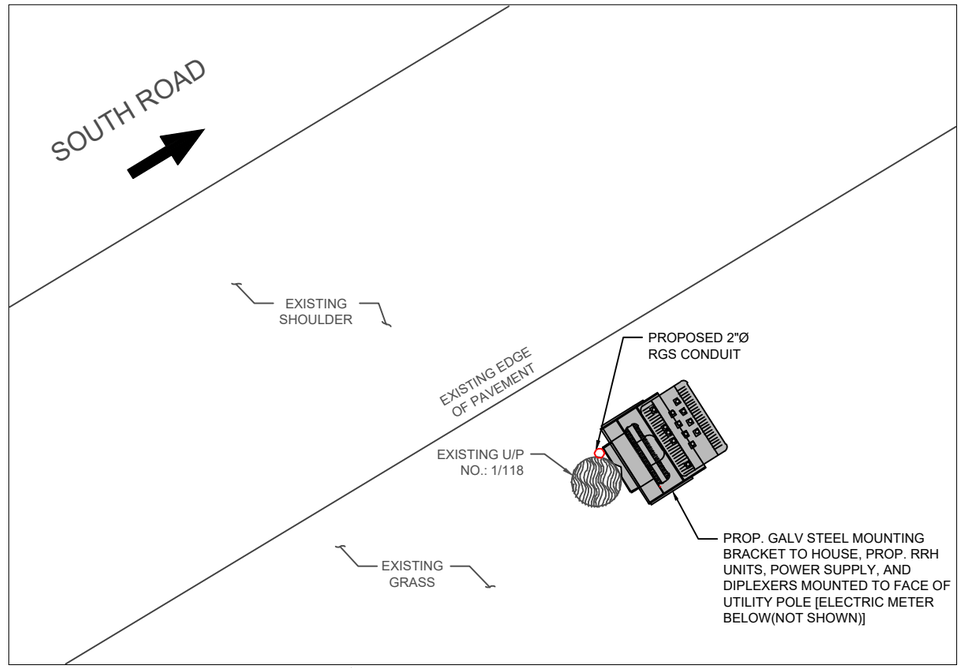
ANTENNA ORIENTATION PLAN

1 / L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN

2 / L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

NOTE:

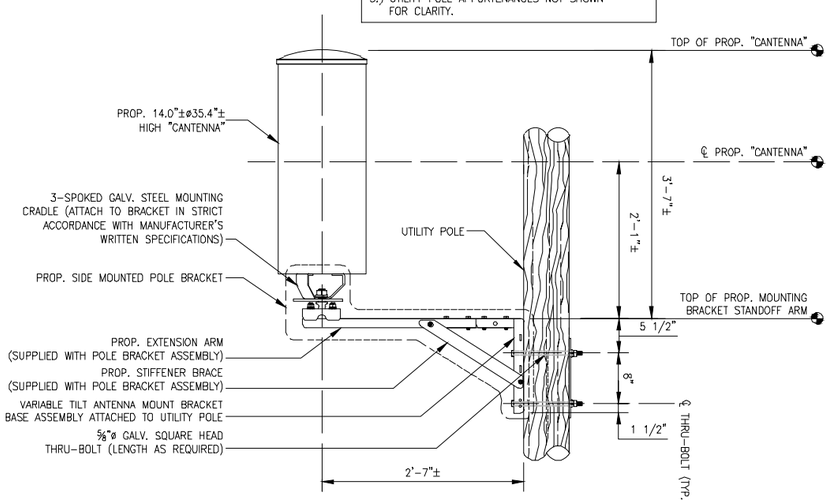
REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

NOTES:

1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

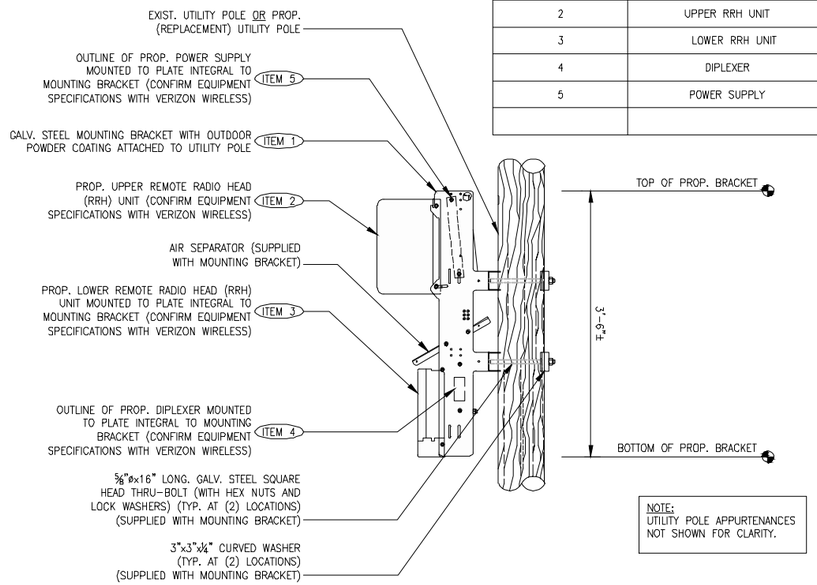


"CANTENNA" MOUNT DETAIL

3 / L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL

4 / L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC15_MA

UTILITY POLE #1/118
5 CHAPPAQUOIT ROAD (POLE ON SOUTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

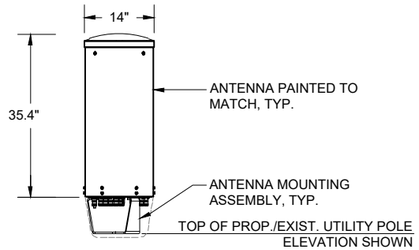
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932305
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087885	06/23/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL 1 / L-4

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS 2 / L-4

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS 3 / L-4

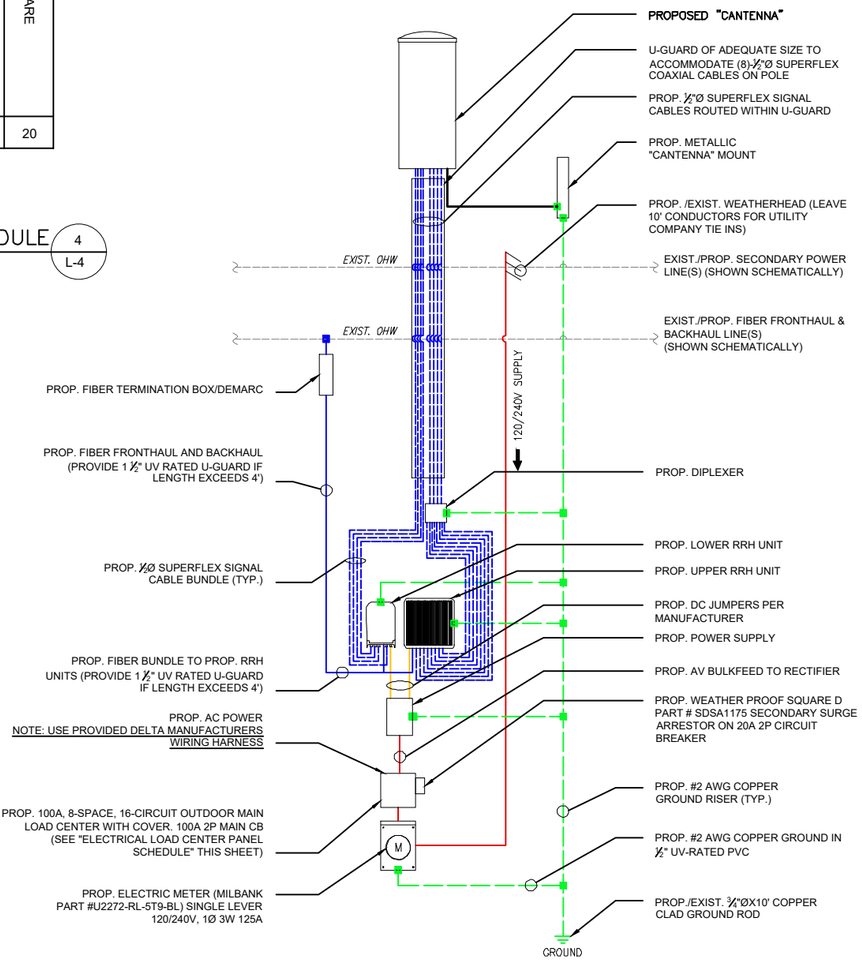
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE 4 / L-4

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM 5 / L-4

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/22/23

SITE NAME:

CHILMARK_SC15_MA

UTILITY POLE #1/118
5 CHAPPAQUOIT ROAD (POLE ON SOUTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932305
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087885	06/23/23	05/27/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

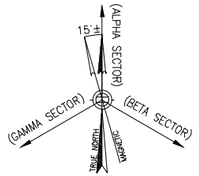
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125069
Customer Application Number	ChilmarkSC16MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	0	
Riser	0	

Total Attachments	1
Total Attachments Billable	1
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/20/2023
Date	12/20/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 22, near 61 North Road, Chilmark, MA



SITE NAME: CHILMARK_SC22_MA

CLUSTER: CHILMARK

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/19
N 41.393711° (41° 23' 37.36")
W -70.71141° (-70° 42' 41.08")
APPROXIMATE GROUND ELEVATION 95.1'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:
CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

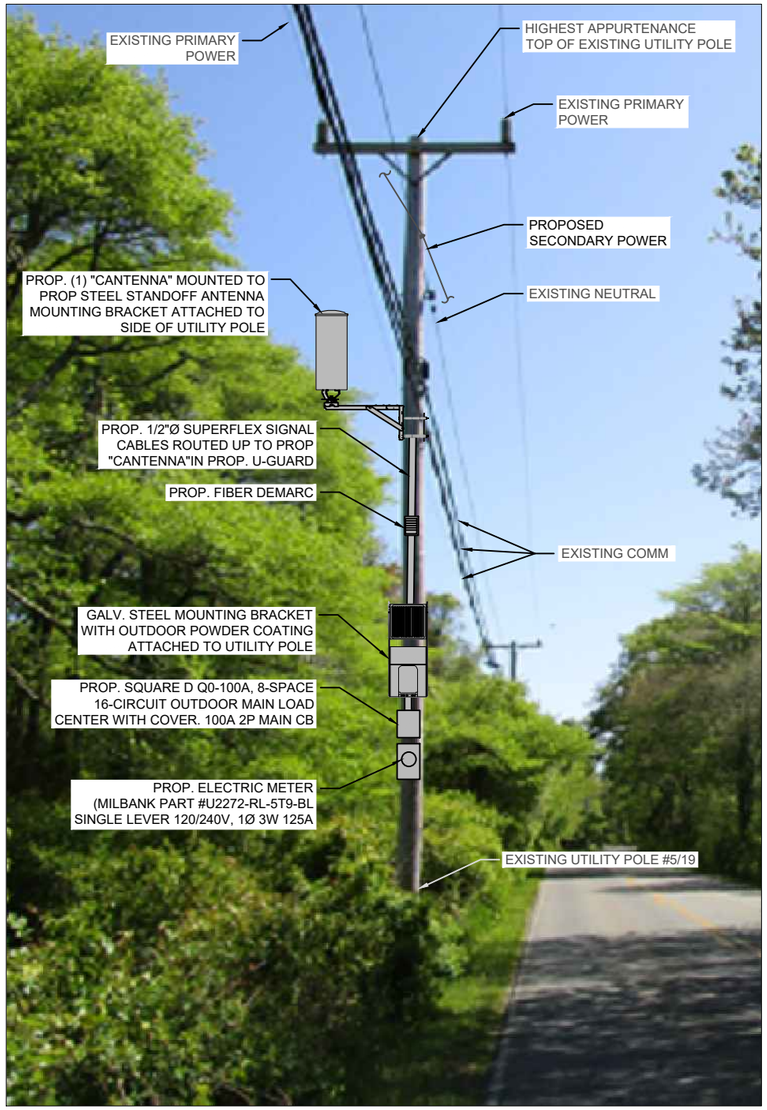
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

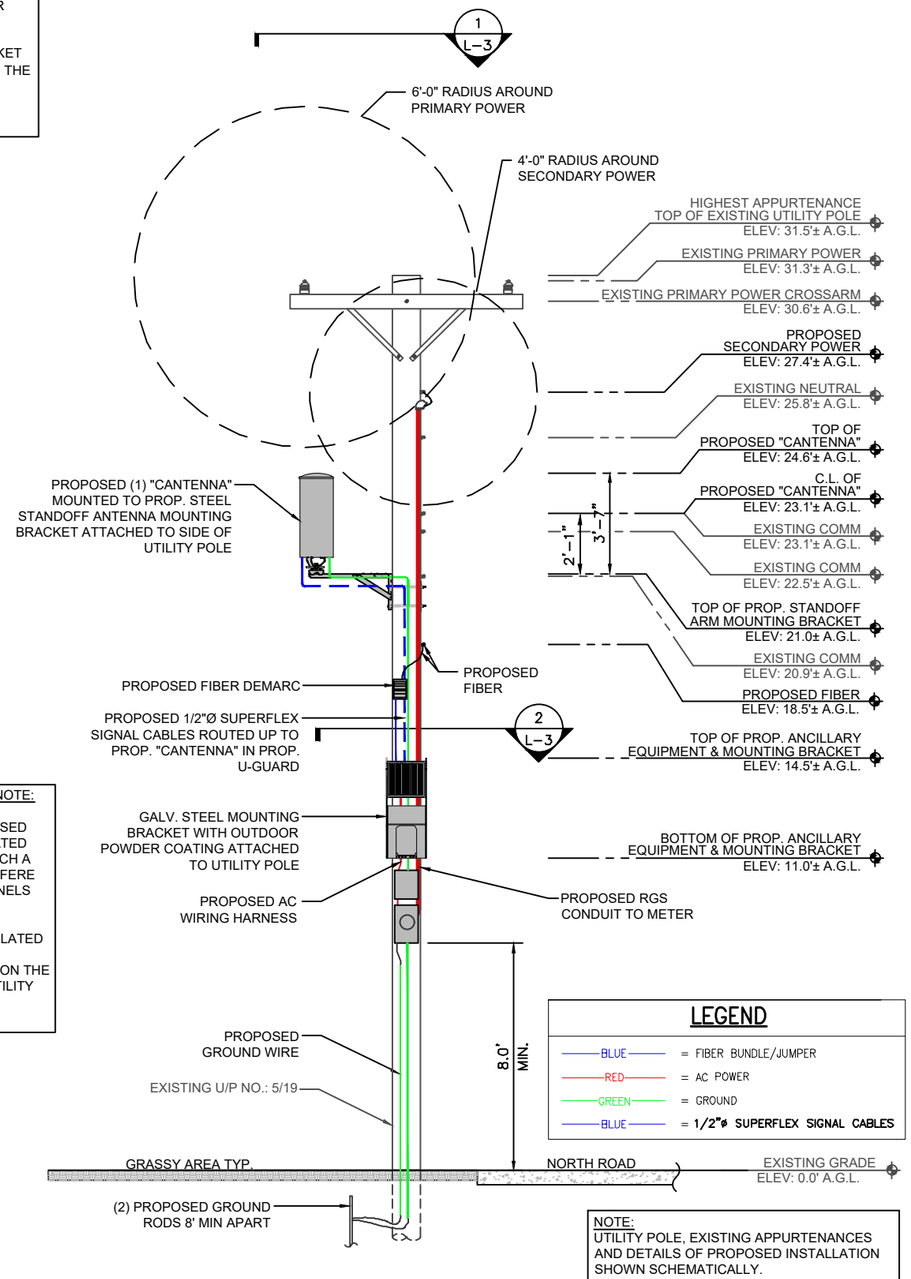


UTILITY POLE # 5/19 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/19 ELEVATION (PROPOSED CONDITIONS) 1 L-2

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/23/23

SITE NAME:
CHILMARK_SC22_MA

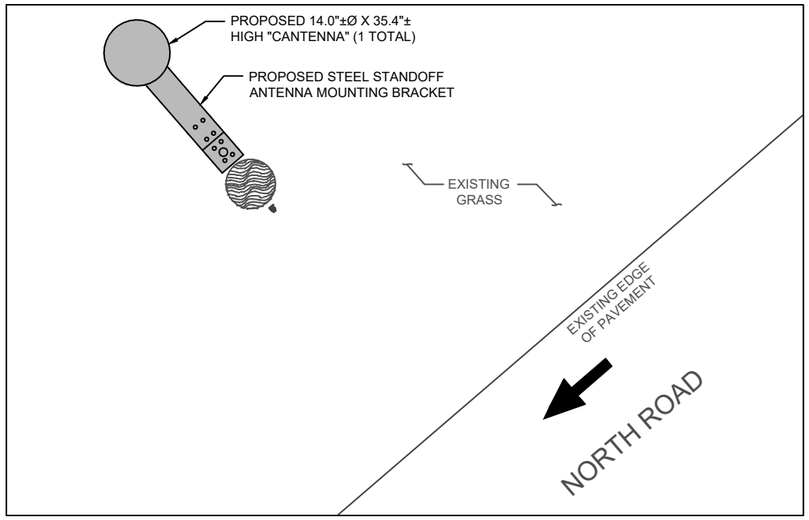
UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

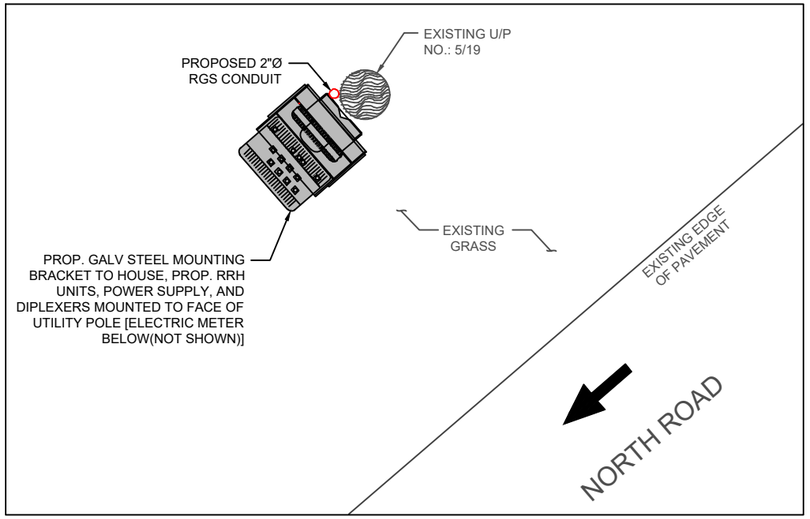
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

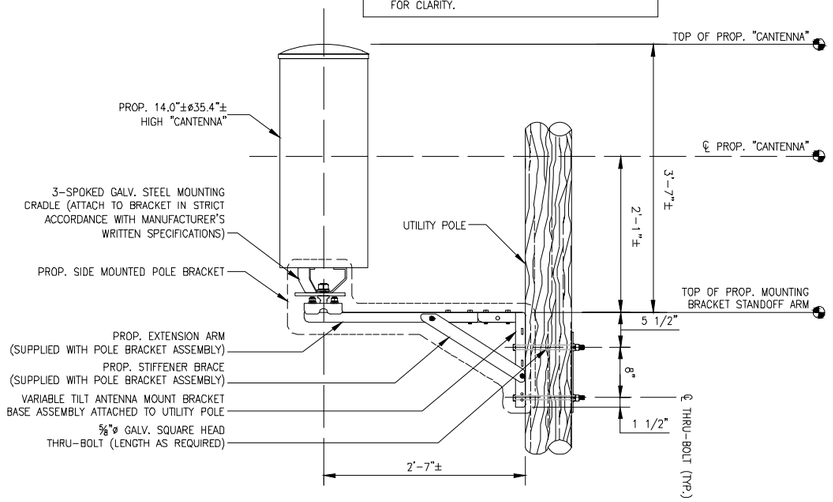
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

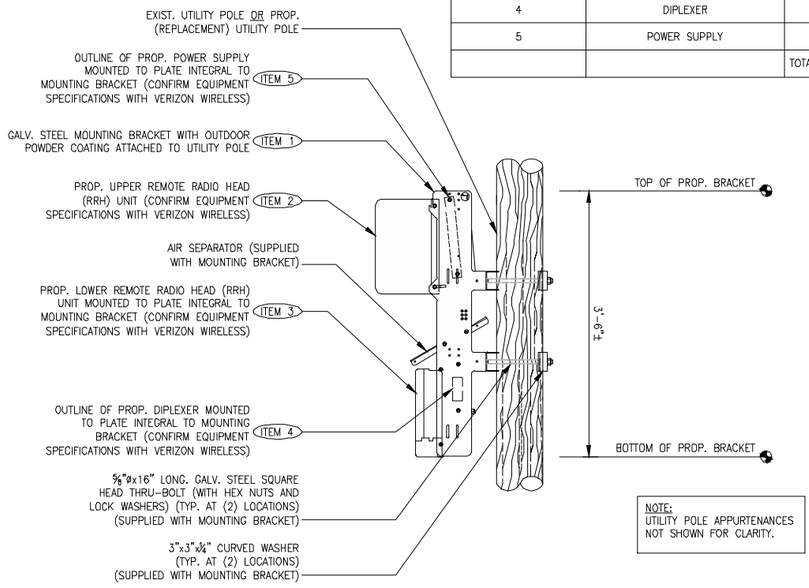
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:

CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

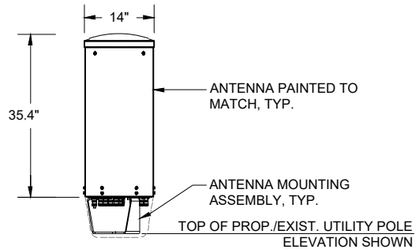
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL 1 / L-4

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS 2 / L-4

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS 3 / L-4

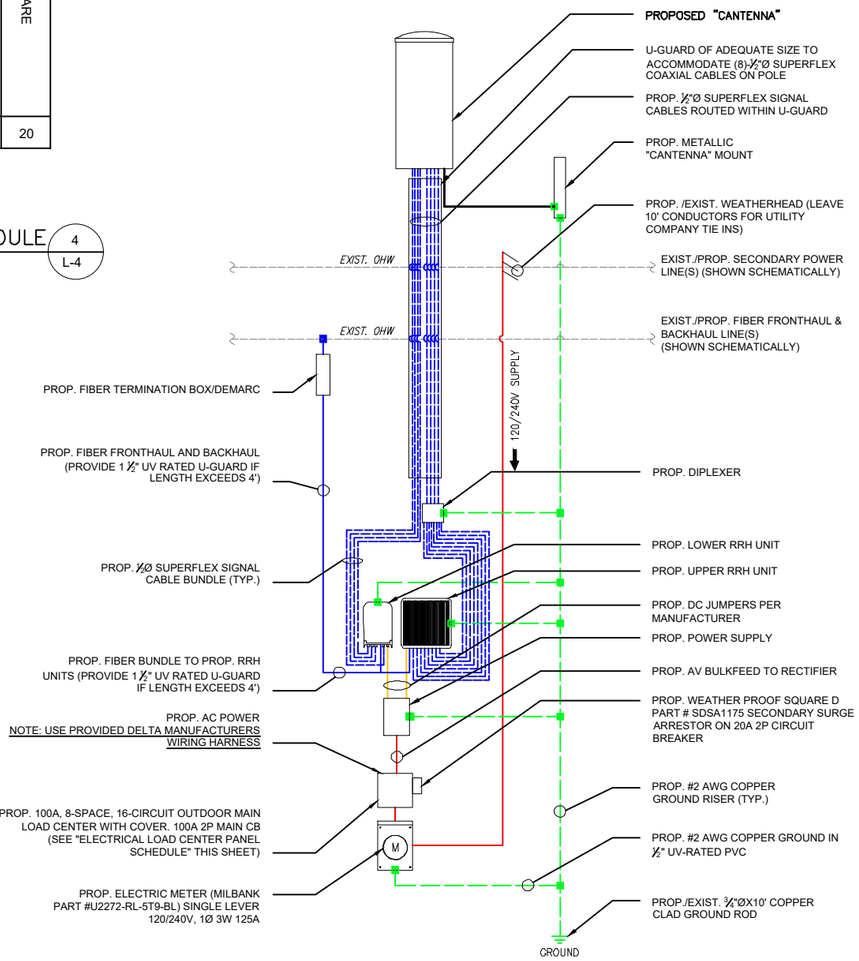
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE 4 / L-4

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM 5 / L-4

SCALE: N.T.S.

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REVISIONS

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1	REVISED FOR REVIEW	08/23/23

SITE NAME:

CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 14, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC22_MA
FUZE Project ID: 17087900
MDG Location ID: 5000932310
Site Address: 61 North Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**65.0**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
31.5'	40/4	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

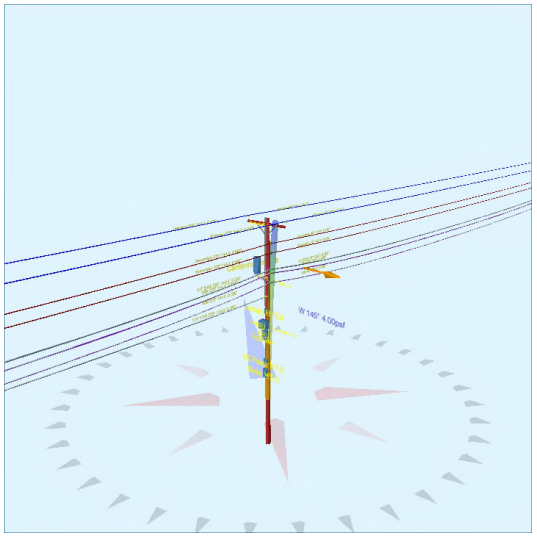
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/19**	Pole Length / Class:	**40 / 4**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**8.5**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**32.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**65.0**	0.0	144.8
Groundline	**65.0**	0.0	144.8
Vertical	**23.2**	20.8	144.8

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**37,689**	164.3	144.8
Groundline	**37,689**	164.3	144.8
GL Allowable	**58,793**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 164.3°

	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	434	26.7	**13,125**	34.8	**22.3**	**1,480**	767	9	**1,490**	**21.9**
Comms	892	54.9	**19,632**	52.1	**33.4**	**2,214**	1,900	23	**2,237**	**32.9**
GenericEquipments	57	3.5	**800**	2.1	**1.4**	**90**	370	5	**95**	**1.4**
Pole	146	9.0	**2,434**	6.5	**4.1**	**275**	1,414	17	**292**	**4.3**
Crossarms	91	5.6	**1,561**	4.1	**2.7**	**176**	278	3	**179**	**2.6**
Insulators	5	0.3	**137**	0.4	**0.2**	**16**	110	1	**17**	**0.2**
Pole Load	1,625	100.0	**37,689**	100.0	**64.1**	**4,250**	4,838	59	**4,310**	**63.4**
Pole Reserve Capacity			**21,104**		**35.9**	**2,550**			**2,490**	**36.6**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 164.3°

	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 (%)
Existing	799	49.2	**21,650**	57.4	**36.8**	**2,442**	2,444	30	**2,472**	**36.3**
Proposed	117	7.2	**3,397**	9.0	**5.8**	**383**	214	3	**386**	**5.7**
Vzw	562	34.6	**10,208**	27.1	**17.4**	**1,151**	767	9	**1,161**	**17.1**
Pole	146	9.0	**2,434**	6.5	**4.1**	**275**	1,414	17	**292**	**4.3**
Totals:	1,625	100.0	**37,689**	100.0	**64.1**	**4,250**	4,838	59	**4,310**	**63.4**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	31.50	48.27	0.3550	0.81	0.115	144.0	229.0	144.0	1,065	14,691	-312	1,655	16,034
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	31.50	48.27	0.3550	0.75	0.115	138.0	49.0	138.0	1,065	-14,691	-299	1,586	-13,404
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	31.50	48.27	0.3550	0.81	0.115	144.0	229.0	144.0	1,065	14,691	345	1,655	16,690
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	31.50	48.27	0.3550	0.75	0.115	138.0	49.0	138.0	1,065	-14,691	330	1,586	-12,775
Secondary	TRIPLEX 6 AWG	Proposed	27.40	6.07	0.5800	1.89	0.113	144.0	229.0	144.0	357	4,282	50	1,678	6,010
Secondary	TRIPLEX 6 AWG	Proposed	27.40	6.07	0.5800	1.79	0.113	138.0	49.0	138.0	357	-4,282	48	1,608	-2,626
Secondary	TRIPLEX 6 AWG	Existing	25.80	6.16	0.5800	1.89	0.113	144.0	229.0	144.0	357	4,032	51	1,580	5,663
Secondary	TRIPLEX 6 AWG	Existing	25.80	6.16	0.5800	1.79	0.113	138.0	49.0	138.0	357	-4,032	49	1,514	-2,469
											Totals:	**0**	**264**	**12,861**	**13,125**

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	1/4" EHS	Existing	23.10	6.31	0.2500	2.71	0.121	144.0	229.0	144.1	800	8,090	27	1,185	9,302
Telco	26 GA 50 PR (0.58)	Existing	23.08	6.01	0.5800		0.180	144.0	229.0	144.1			29	290	319
Telco	26 GA 50 PR (0.58)	Existing	23.08	6.61	0.5800		0.180	144.0	229.0	144.1			32	290	322
Telco	26 GA 50 PR (0.58)	Existing	23.04	6.31	0.5800		0.180	144.0	229.0	144.1			31	289	320
Overlashed Bundle	1/4" EHS	Existing	23.10	6.31	0.2500	2.52	0.121	138.0	49.0	138.1	800	-8,090	26	1,136	-6,928
Telco	26 GA 50 PR (0.58)	Existing	23.08	6.01	0.5800		0.180	138.0	49.0	138.1			28	278	306
Telco	26 GA 50 PR (0.58)	Existing	23.08	6.61	0.5800		0.180	138.0	49.0	138.1			31	278	309
Telco	26 GA 50 PR (0.58)	Existing	23.04	6.31	0.5800		0.180	138.0	49.0	138.1			29	277	307
Overlashed Bundle	10M	Existing	22.50	6.34	0.3060	2.65	0.165	138.0	49.0	138.1	2,000	-19,699	28	1,099	-18,572
CATV	CATV .50	Existing	22.48	6.04	0.5700		0.600	138.0	49.0	138.1			53	263	316
CATV	CATV .50	Existing	22.48	6.64	0.5700		0.600	138.0	49.0	138.1			59	263	322
CATV	CATV .50	Existing	22.43	6.34	0.5700		0.600	138.0	49.0	138.1			56	262	319
Overlashed Bundle	10M	Existing	22.50	6.34	0.3060	2.88	0.165	144.0	229.0	144.2	2,000	19,699	29	1,147	20,876
CATV	CATV .50	Existing	22.48	6.04	0.5700		0.600	144.0	229.0	144.2			56	278	334
CATV	CATV .50	Existing	22.48	6.64	0.5700		0.600	144.0	229.0	144.2			61	274	336
CATV	CATV .50	Existing	22.43	6.34	0.5700		0.600	144.0	229.0	144.2			59	274	332
Overlashed Bundle	10M	Existing	20.90	6.43	0.3060	1.17	0.165	138.0	49.0	138.1	2,000	-18,299	38	1,111	-17,149
CATV	CATV .50	Existing	20.87	6.43	0.5700		0.600	138.0	49.0	138.1			67	334	401
Overlashed Bundle	10M	Existing	20.90	6.43	0.3060	1.27	0.165	144.0	229.0	144.2	2,000	18,299	40	1,160	19,498
CATV	CATV .50	Existing	20.87	6.43	0.5700		0.600	144.0	229.0	144.2			70	349	419
Overlashed Bundle	1/4" EHS	Vzw	18.50	6.56	0.2500	1.75	0.121	144.0	229.0	144.0	800	6,479	19	1,072	7,570
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	18.46	6.56	0.7560		0.208	144.0	229.0	144.0			22	354	376
											Totals:	**6,479**	**890**	**12,264**	**19,632**

GenericEquipment		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	Meter	Vzw	5.00	7.22	229.0	0.0	16.25	18.50	4.80	--	10.00	8	35	43
Box	AC Power	Vzw	7.00	6.84	229.0	0.0	9.93	12.65	4.27	--	8.88	5	30	35
Box	RRU	Vzw	13.83	13.04	229.0	0.0	102.50	17.30	11.50	--	17.30	107	191	298
Box	Diplexer	Vzw	11.17	8.90	229.0	0.0	7.60	4.80	3.30	--	7.90	5	16	20
Box	RRU	Vzw	12.17	9.70	229.0	0.0	21.40	13.90	4.80	--	9.80	17	66	83
Box	Demarc	Vzw	16.00	5.55	229.0	0.0	2.00	9.60	2.70	--	7.00	1	33	34
Cylinder	Cantenna Antenna	Vzw	23.08	36.78	60.0	0.0	35.00	35.40	--	14.00	--	-203	489	286
											Totals:	**-60**	**860**	**800**

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	Existing	30.60	5.14	229.0	229.0	53.00	4.50	3.50	96.00	19	80	99
Normal	Bracket	Vzw	12.50	-7.35	49.0	49.0	28.00	42.00	0.50	21.00	14	57	71
Normal	Riser	Vzw	15.75	5.72	315.0	315.0	37.40	378.00	3.00	3.00	-30	1,343	1,313
Offset	Standoff	Vzw	21.00	1.11	60.0	60.0	28.00	1.50	5.38	31.00	67	11	78
										Totals:	**70**	**1,491**	**1,561**

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)**
Pin	Pin Insulator - 10 kV	Existing	30.79	48.00	312.9	0.0	7.00	4.50	8.50	0	56	56
Pin	Pin Insulator - 10 kV	Existing	30.79	-48.00	145.1	0.0	7.00	4.50	8.50	0	56	56
Spool	Spool 3"	Proposed	27.40	0.00	139.0	139.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Existing	25.80	0.00	139.0	139.0	2.00	3.00	3.19	0	12	12
Bolt	Three Bolt	Existing	23.10	0.00	139.0	139.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	22.50	0.00	139.0	139.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.90	0.00	139.0	139.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	221.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	229.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	221.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	21.50	-32.88	331.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	18.50	0.00	229.0	229.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**137**	**137**

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	20.78	33.40	9.41	7.07	6.69	10.19	1.60e+6	60.00	57.00	31.50	20,813	**208.55**	**4.31**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC22MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC22MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 3/19/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC22MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC22MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC22MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
61 NORTH ROAD		N/A	5/19			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 61 NORTH ROAD Suite: ___ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will reguire 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

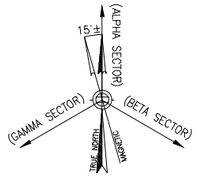
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC22_MA

CLUSTER: CHILMARK

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/19
N 41.393711° (41° 23' 37.36")
W -70.71141° (-70° 42' 41.08")
APPROXIMATE GROUND ELEVATION 95.1'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:
CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

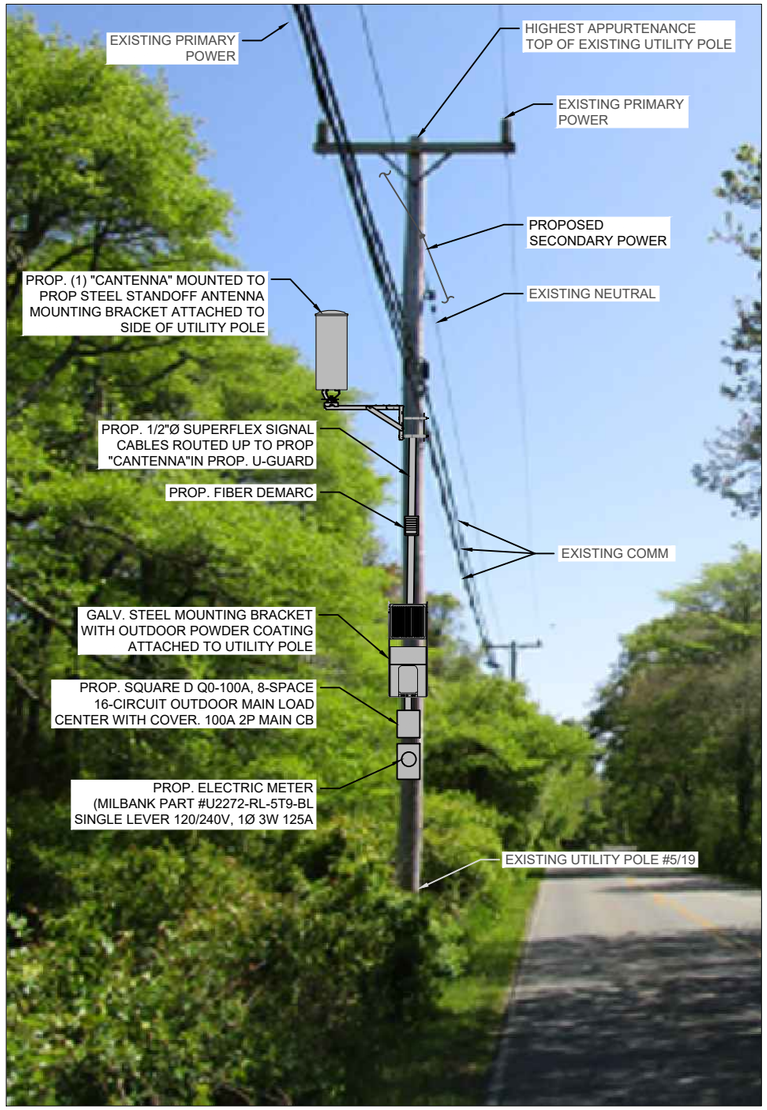
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

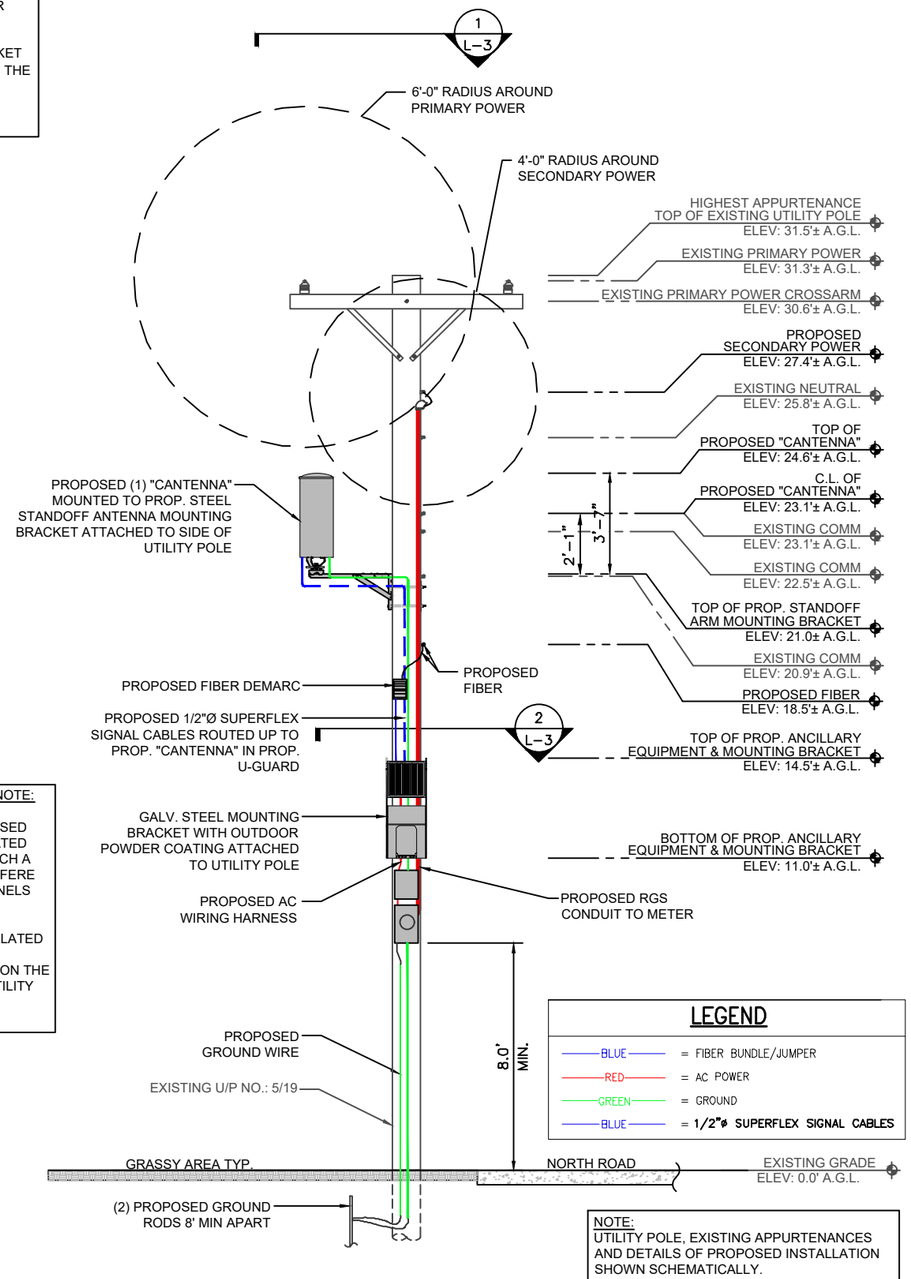


UTILITY POLE # 5/19 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/19 ELEVATION (PROPOSED CONDITIONS) 1 L-2

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

verizon
"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:
CHILMARK_SC22_MA

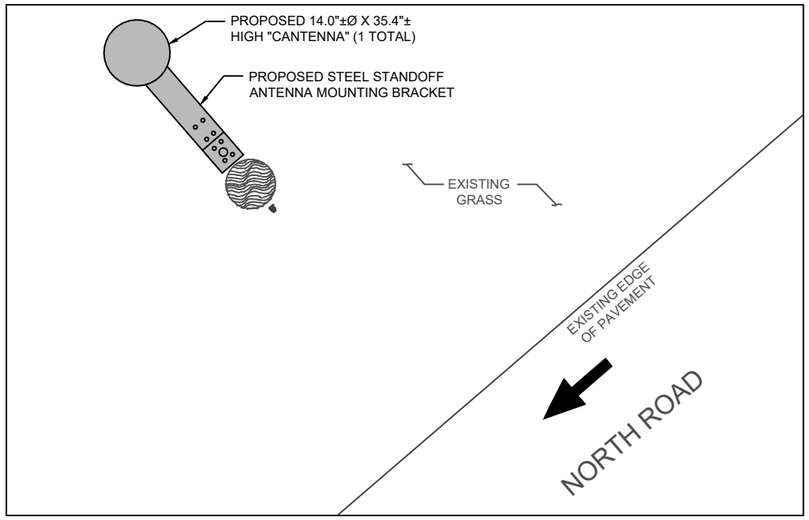
UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

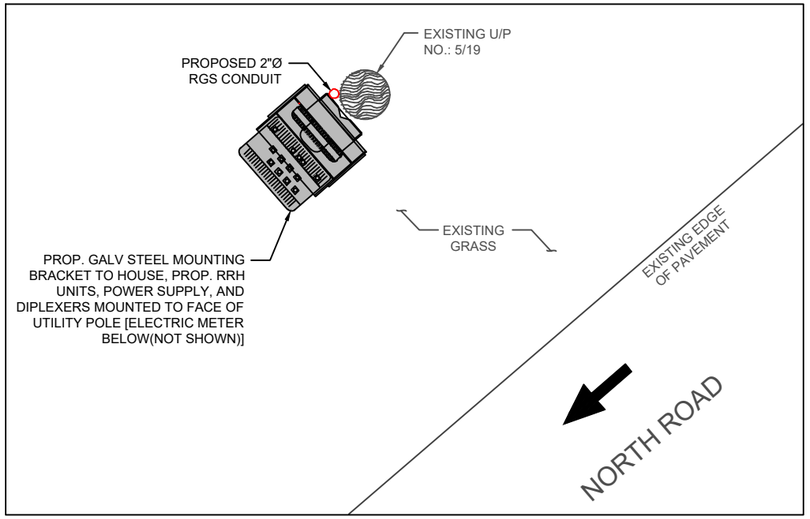
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

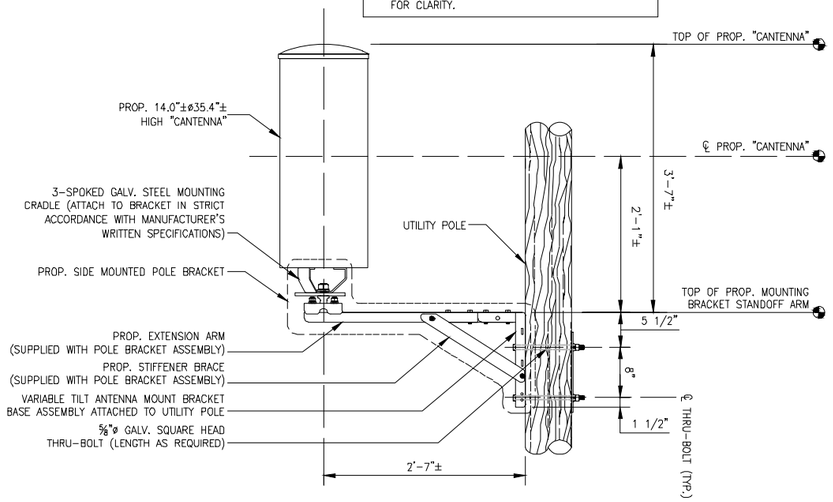
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

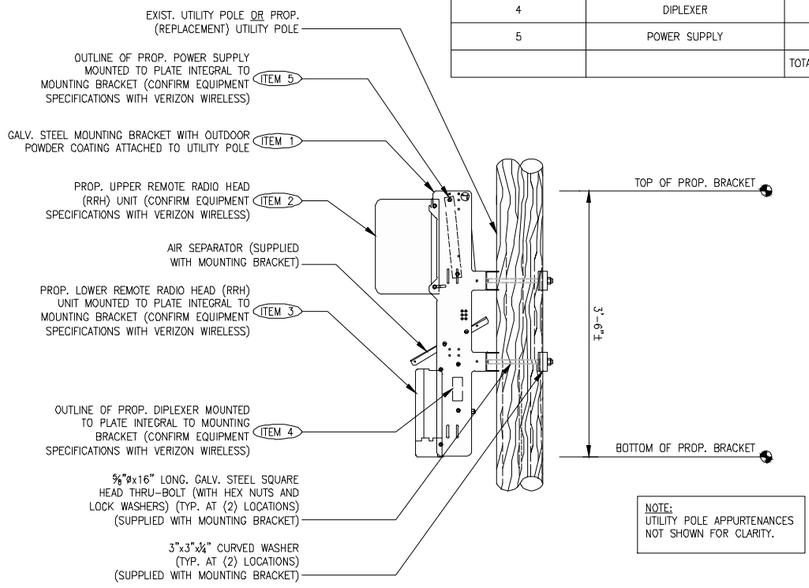
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:

CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

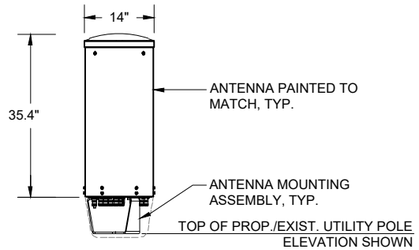
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL 1 / L-4

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS 2 / L-4

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS 3 / L-4

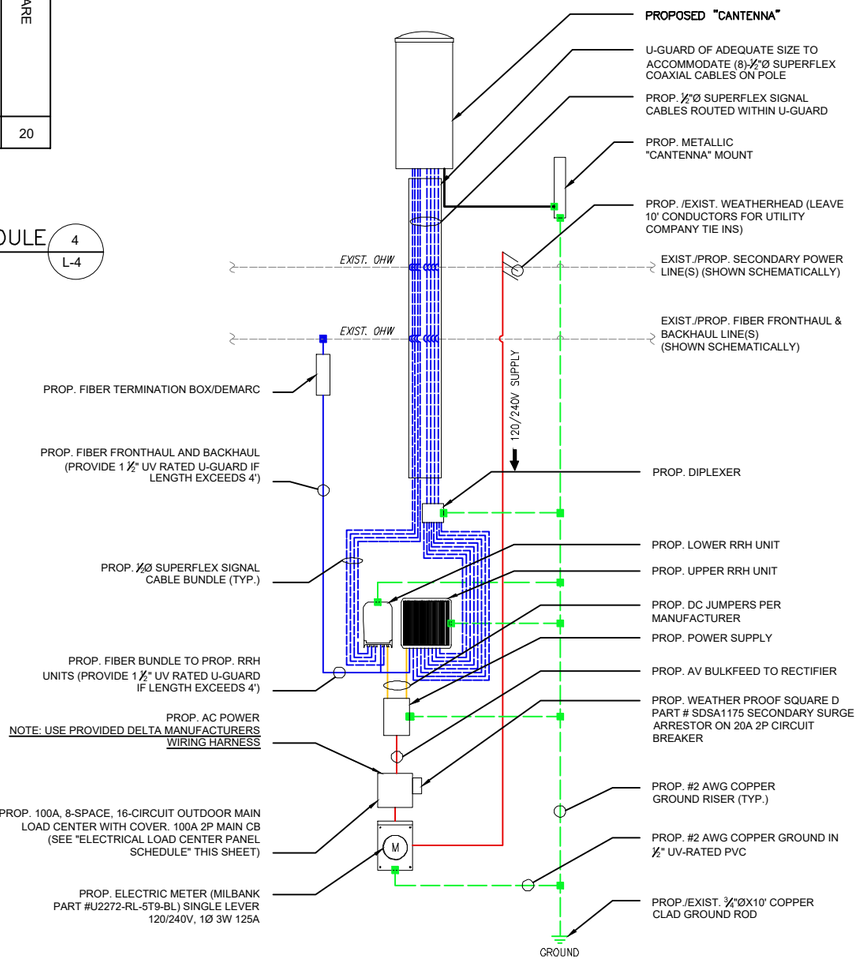
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE 4 / L-4

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM 5 / L-4

SCALE: N.T.S.

verizon

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/23/23

SITE NAME:

CHILMARK_SC22_MA

UTILITY POLE #5/19
61 NORTH ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932310
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087900	07/03/23	05/27/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

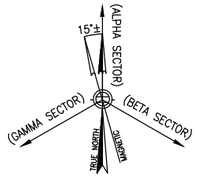
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125075
Customer Application Number	CHILMARKSC22MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 04/23/2024
Date	04/23/2024
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 24, near 56 Menemsha Crossroad, Chilmark, MA



SITE NAME: CHILMARK_SC24_MA

CLUSTER: CHILMARK

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #3/36
N 41.349846° (41°-20'-59.45")
W -70.750257° (70°-45'-0.92")
APPROXIMATE GROUND ELEVATION 101.7'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

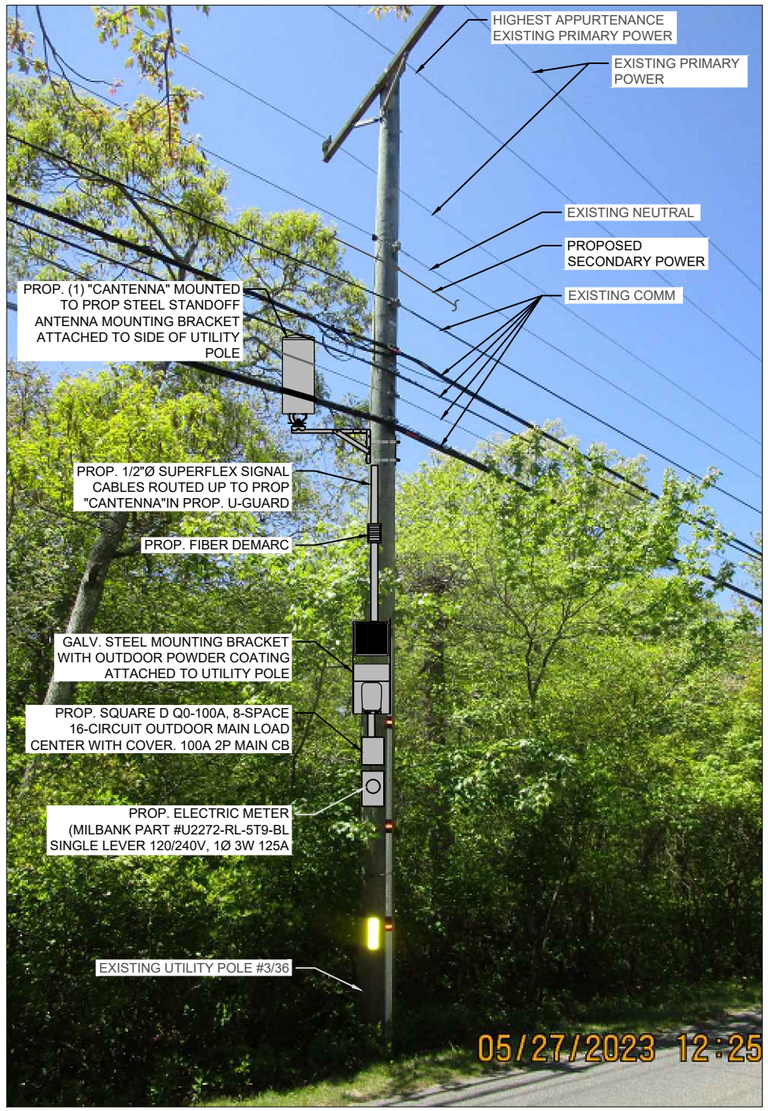
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23

GENERAL NOTES:

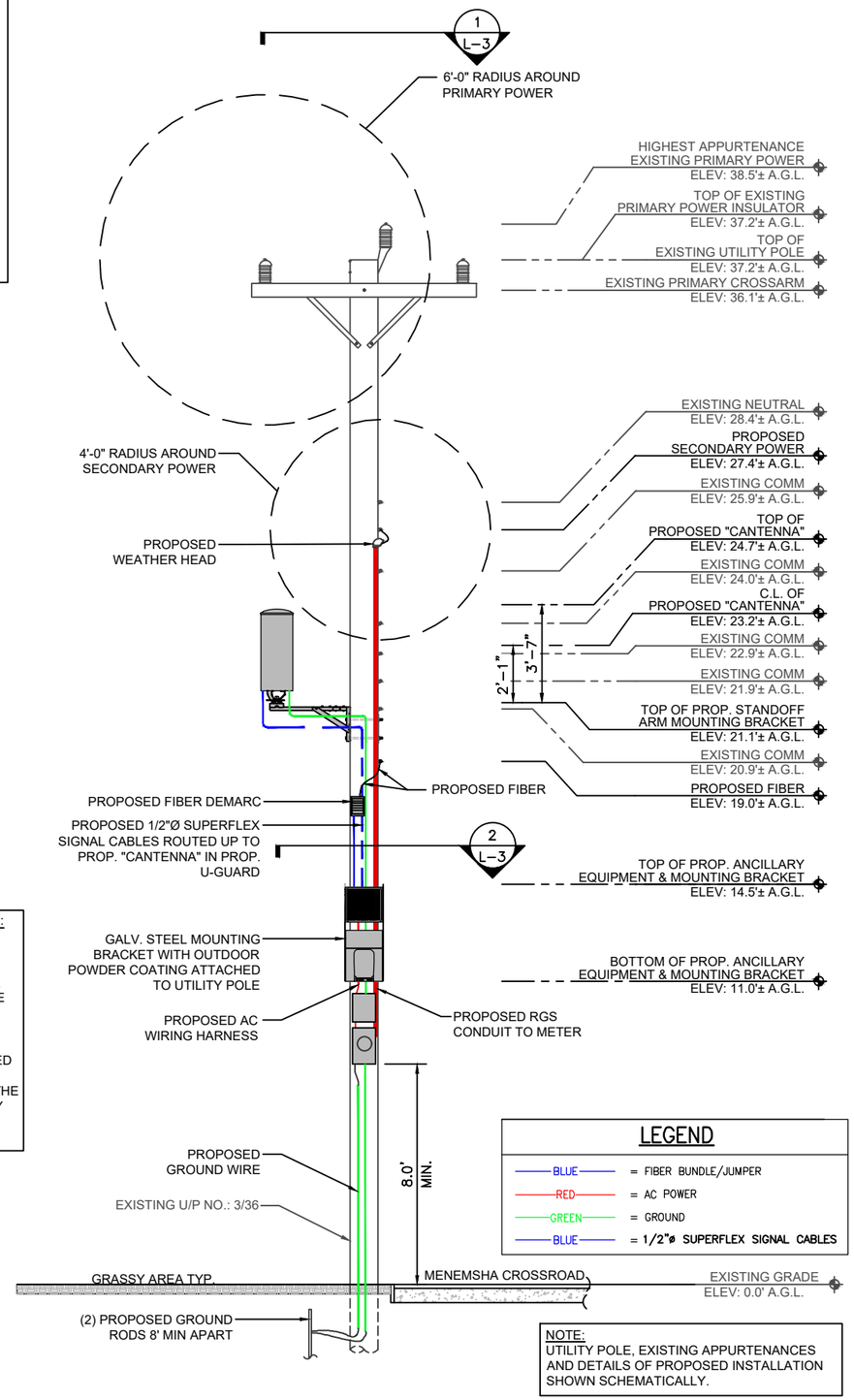
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 3/36 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 3/36 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC24_MA

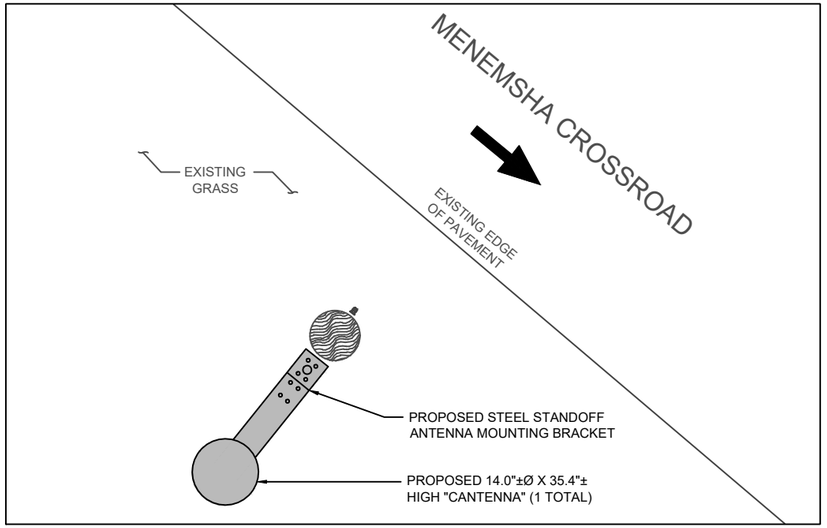
UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

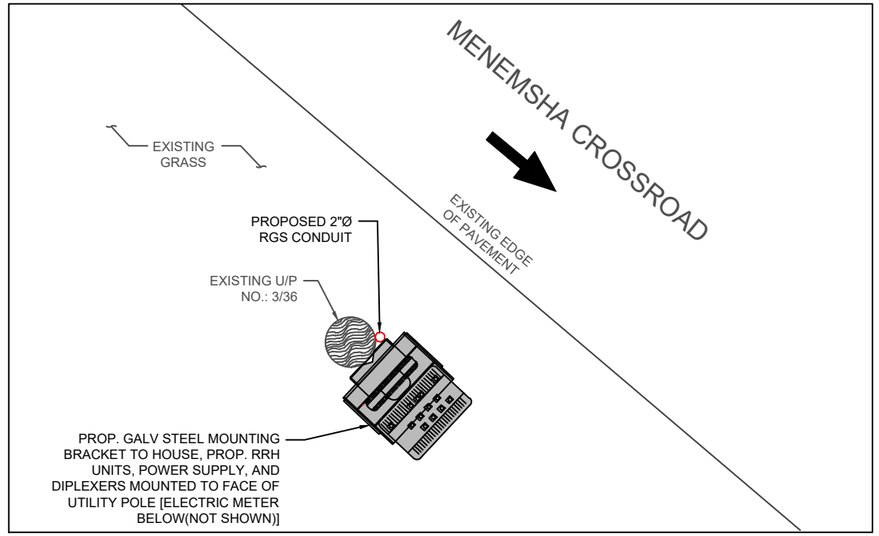
SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

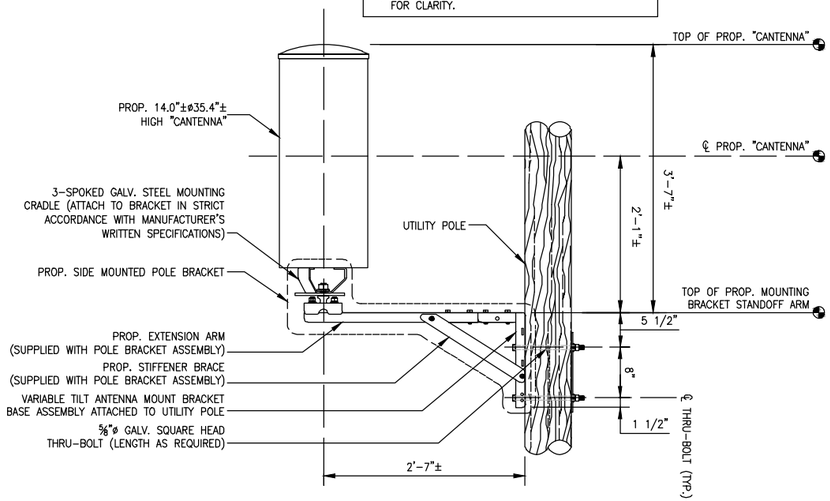
NORTH

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

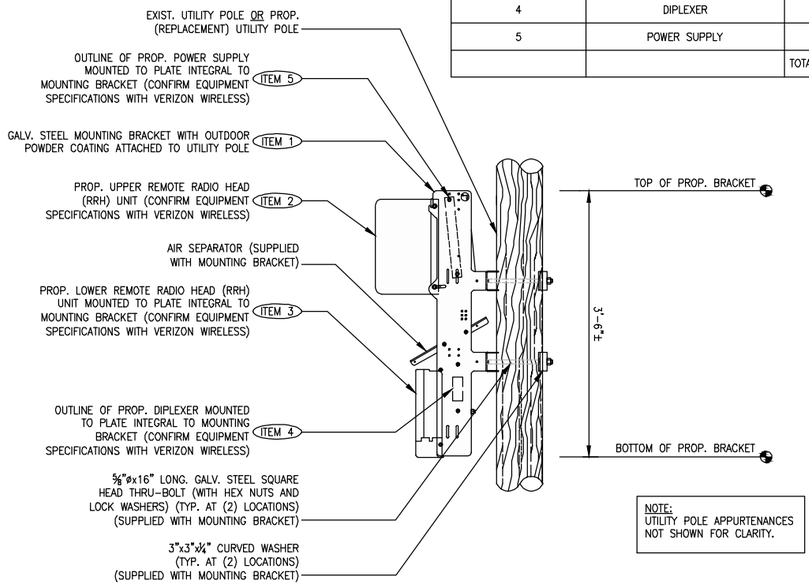
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:

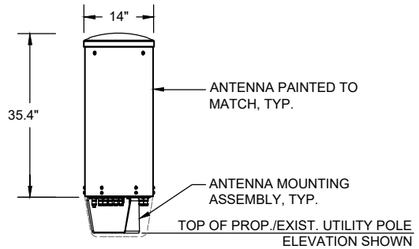
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

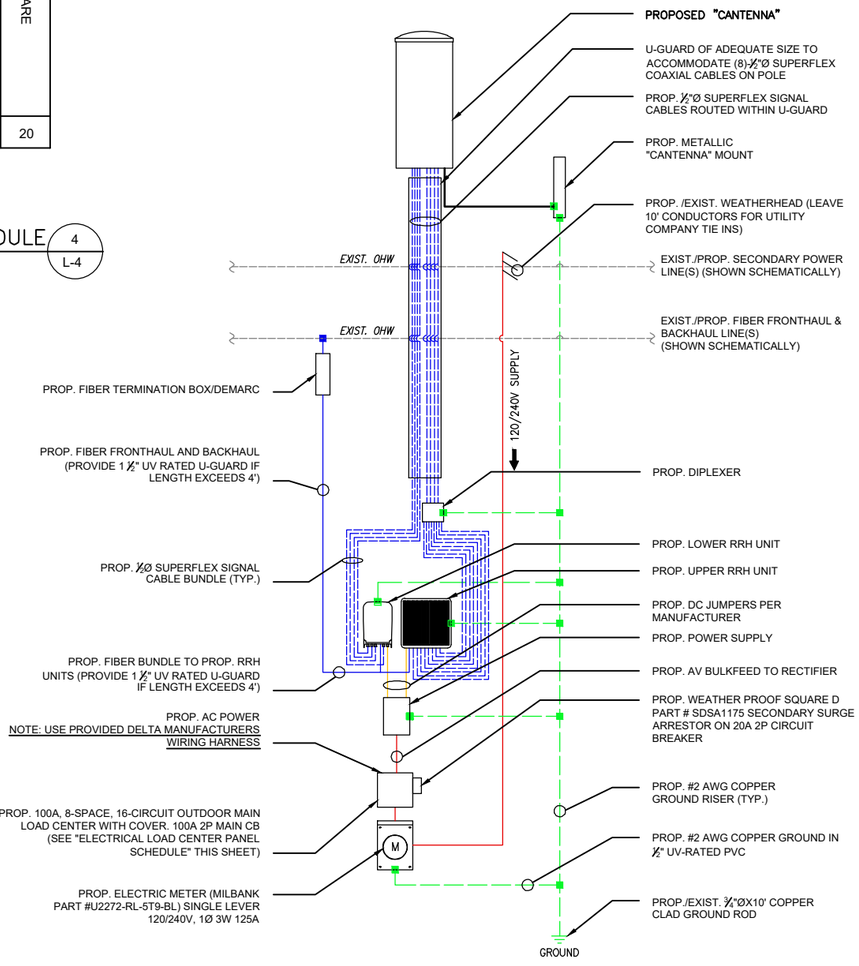
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

August 17, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC24_MA
FUZE Project ID: 17087887
MDG Location ID: 5000930975
Site Address: 58 Menemsha Crossroad
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**40.7**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
37.2'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

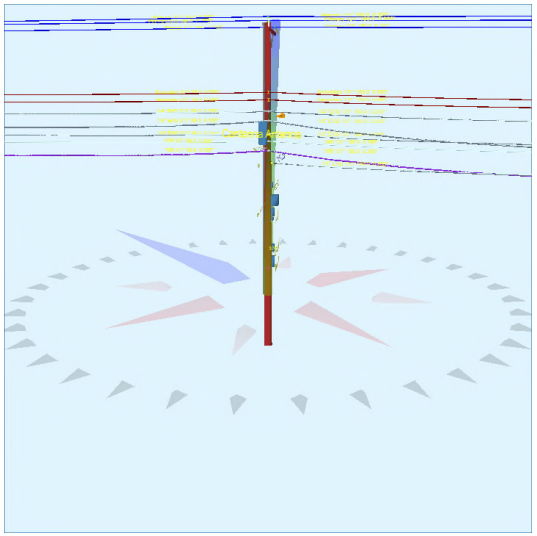
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**3/36**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**7.8**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**42.26**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**40.7**	0.0	44.8
Groundline	**40.7**	0.0	44.8
Vertical	**11.8**	21.8	44.8

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**54,208**	58.9	44.8
Groundline	**54,208**	58.9	44.8
GL Allowable	**135,430**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 58.9°

	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	556	26.5	**19,424**	35.8	**14.3**	**946**	897	6	**952**	**14.0**
Comms	1,140	54.3	**27,139**	50.1	**20.0**	**1,322**	2,425	17	**1,339**	**19.7**
GenericEquipments	58	2.8	**779**	1.4	**0.6**	**38**	370	3	**41**	**0.6**
Pole	232	11.1	**4,495**	8.3	**3.3**	**219**	2,856	20	**239**	**3.5**
Crossarms	106	5.1	**2,137**	3.9	**1.6**	**104**	278	2	**106**	**1.6**
Insulators	7	0.3	**234**	0.4	**0.2**	**11**	142	1	**12**	**0.2**
Pole Load	2,099	100.0	**54,208**	100.0	**40.0**	**2,640**	6,969	49	**2,689**	**39.5**
Pole Reserve Capacity			**81,222**		**60.0**	**4,160**			**4,111**	**60.5**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 58.9°

	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 (%)
Existing	1,238	59.0	**36,565**	67.5	**27.0**	**1,781**	3,093	22	**1,803**	**26.5**
Proposed	118	5.6	**3,461**	6.4	**2.6**	**169**	204	1	**170**	**2.5**
Vzw	510	24.3	**9,687**	17.9	**7.2**	**472**	815	6	**478**	**7.0**
Pole	232	11.1	**4,495**	8.3	**3.3**	**219**	2,856	20	**239**	**3.5**
Totals:	2,099	100.0	**54,208**	100.0	**40.0**	**2,640**	6,969	49	**2,689**	**39.5**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.00	48.39	0.3550	1.18	0.115	180.0	131.0	180.0	1,065	12,480	-416	2,578	14,642
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.00	48.39	0.3550	0.35	0.115	89.0	311.0	89.0	1,065	-12,480	-206	1,274	-11,412
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.00	48.39	0.3550	1.18	0.115	180.0	131.0	180.0	1,065	12,480	452	2,578	15,510
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.00	48.39	0.3550	0.35	0.115	89.0	311.0	89.0	1,065	-12,480	223	1,274	-10,982
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.91	0.00	0.3550	1.18	0.115	180.0	131.0	180.0	1,065	12,788	0	2,641	15,429
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	37.91	0.00	0.3550	0.35	0.115	89.0	312.0	89.0	1,065	-12,094	0	1,314	-10,780
Secondary	TRIPLEX 6 AWG	Existing	28.40	7.37	0.5800	2.51	0.113	180.0	131.0	180.0	357	3,210	82	2,306	5,598

Secondary	TRIPLEX 6 AWG	Existing	28.40	7.37	0.5800	1.07	0.113	89.0	311.0	89.0	357	-3,210	40	1,140	-2,029
Secondary	TRIPLEX 6 AWG	Proposed	27.40	7.44	0.5800	2.51	0.113	180.0	131.0	180.0	357	3,097	82	2,225	5,405
Secondary	TRIPLEX 6 AWG	Proposed	27.40	7.44	0.5800	1.07	0.113	89.0	311.0	89.0	357	-3,097	41	1,100	-1,956
											Totals:	**694**	**299**	**18,432**	**19,424**

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	1/4" EHS	Existing	25.90	7.54	0.2500	2.46	0.121	180.0	131.0	180.0	800	6,561	61	1,969	8,591
Telco	26 GA 50 PR (0.58)	Existing	25.86	7.54	0.5800		0.180	180.0	131.0	180.0			67	637	704
Overlashed Bundle	1/4" EHS	Existing	25.90	7.54	0.2500	0.72	0.121	89.0	311.0	89.0	800	-6,561	30	974	-5,557
Telco	26 GA 50 PR (0.58)	Existing	25.86	7.54	0.5800		0.180	89.0	311.0	89.0			33	315	348
Overlashed Bundle	1/4" EHS	Existing	24.65	7.62	0.2500	4.86	0.121	180.0	131.0	180.4	800	6,244	39	1,637	7,920
Telco	26 GA 50 PR (0.58)	Existing	24.63	7.29	0.5800		0.180	180.0	131.0	180.4			44	370	413
Telco	26 GA 50 PR (0.58)	Existing	24.63	7.95	0.5800		0.180	180.0	131.0	180.4			48	370	417
Telco	26 GA 50 PR (0.58)	Existing	24.58	7.33	0.5800		0.180	180.0	131.0	180.4			44	369	413
Telco	26 GA 50 PR (0.58)	Existing	24.58	7.91	0.5800		0.180	180.0	131.0	180.4			47	369	416
Overlashed Bundle	1/4" EHS	Existing	24.65	7.62	0.2500	1.38	0.121	89.0	311.0	89.0	800	-6,244	19	809	-5,415
Telco	26 GA 50 PR (0.58)	Existing	24.63	7.29	0.5800		0.180	89.0	311.0	89.0			22	183	204
Telco	26 GA 50 PR (0.58)	Existing	24.63	7.95	0.5800		0.180	89.0	311.0	89.0			24	183	206
Telco	26 GA 50 PR (0.58)	Existing	24.58	7.33	0.5800		0.180	89.0	311.0	89.0			22	182	204
Telco	26 GA 50 PR (0.58)	Existing	24.58	7.91	0.5800		0.180	89.0	311.0	89.0			23	182	206
Overlashed Bundle	1/4" EHS	Existing	22.90	7.73	0.2500	2.46	0.121	180.0	131.0	180.0	800	5,801	63	1,741	7,605
Telco	26 GA 50 PR (0.58)	Existing	22.86	7.73	0.5800		0.180	180.0	131.0	180.0			69	563	632
Overlashed Bundle	1/4" EHS	Existing	22.90	7.73	0.2500	0.72	0.121	89.0	311.0	89.0	800	-5,801	31	861	-4,909
Telco	26 GA 50 PR (0.58)	Existing	22.86	7.73	0.5800		0.180	89.0	311.0	89.0			34	278	313
Overlashed Bundle	10M	Existing	21.90	7.80	0.3060	0.12	0.165	89.0	311.0	89.0	2,000	-13,868	38	748	-13,083
Overlashed Bundle	10M	Existing	21.90	7.80	0.3060	0.51	0.165	180.0	131.0	180.0	2,000	13,868	76	1,512	15,456
Overlashed Bundle	10M	Existing	20.65	7.88	0.3060	1.18	0.165	89.0	311.0	89.0	2,000	-13,076	37	859	-12,181
CATV	CATV .50	Existing	20.62	7.57	0.5700		0.600	89.0	311.0	89.0			58	333	391
CATV	CATV 1.0	Existing	20.60	8.46	1.3300		1.200	89.0	311.0	89.0			100	333	433
Overlashed Bundle	10M	Existing	20.65	7.88	0.3060	4.43	0.165	180.0	131.0	180.3	2,000	13,076	74	1,736	14,886
CATV	CATV .50	Existing	20.62	7.57	0.5700		0.600	180.0	131.0	180.3			118	674	792
CATV	CATV 1.0	Existing	20.60	8.46	1.3300		1.200	180.0	131.0	180.3			203	673	876
Overlashed Bundle	1/4" EHS	Vzw	19.00	7.99	0.2500	2.62	0.121	180.0	131.0	180.1	800	4,813	22	1,486	6,321
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	18.96	7.99	0.7560		0.208	180.0	131.0	180.1			25	509	533
											Totals:	**4,813**	**1,470**	**20,856**	**27,139**

GenericEquipment		**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	Meter	Vzw	5.00	8.80	131.0	0.0	16.25	18.50	4.80	--	10.00	7	35	42
Box	AC Power	Vzw	7.00	8.40	131.0	0.0	9.93	12.65	4.27	--	8.88	4	30	34

Box	RRU	Vzw	13.83	11.53	131.0	0.0	102.50	17.30	11.50	--	17.30	74	195	270
Box	Diplexer	Vzw	11.17	7.39	131.0	0.0	7.60	4.80	3.30	--	7.90	3	16	19
Box	RRU	Vzw	12.17	8.20	131.0	0.0	21.40	13.90	4.80	--	9.80	12	66	78
Box	Demarc	Vzw	16.00	7.03	131.0	0.0	2.00	9.60	2.70	--	7.00	1	33	34
Cylinder	Cantenna Antenna	Vzw	23.18	36.81	315.0	0.0	35.00	35.40	--	14.00	--	-206	508	302
											Totals:	**-105**	**884**	**779**

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	Existing	36.10	6.12	131.0	131.0	53.00	4.50	3.50	96.00	16	69	85
Normal	Bracket	Vzw	12.50	-5.84	311.0	311.0	28.00	42.00	0.50	21.00	8	38	46
Normal	Riser	Vzw	18.60	7.01	315.0	315.0	37.40	446.40	3.00	3.00	-10	1,937	1,927
Offset	Standoff	Vzw	21.10	2.54	315.0	315.0	28.00	1.50	5.38	31.00	66	13	79
										Totals:	**80**	**2,057**	**2,137**

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)**
Pin	Pin Insulator - 10 kV	Existing	36.29	48.00	213.7	0.0	7.00	4.50	8.50	0	68	68
Pin	Pin Insulator - 10 kV	Existing	36.29	-48.00	48.3	0.0	7.00	4.50	8.50	0	68	68
Pin	Pin Insulator - 10 kV	Existing	37.20	0.00	0.0	0.0	7.00	4.50	8.50	0	70	70
Spool	Spool 3"	Existing	28.40	0.00	43.0	43.0	2.00	3.00	3.19	0	13	13
Spool	Spool 3"	Proposed	27.40	0.00	43.0	43.0	2.00	3.00	3.19	0	13	13
Bolt	Three Bolt	Existing	25.90	0.00	43.0	43.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	24.65	0.00	43.0	43.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	22.90	0.00	43.0	43.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	21.90	0.00	43.0	43.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.65	0.00	43.0	43.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	121.9	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	131.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	121.9	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	21.60	-32.88	228.9	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	19.00	0.00	131.0	131.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**234**	**234**

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	21.79	33.17	12.51	7.89	8.60	13.46	1.60e+6	60.00	57.00	37.20	58,953	**590.55**	**8.47**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC24MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC24MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 6/11/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC24MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC24MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC24MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
58 MENEMSHA CROSSROAD		N/A	3/36			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 58 MENEMSHA CROSSROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

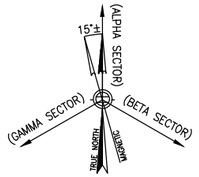
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC24_MA

CLUSTER: CHILMARK

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #3/36
N 41.349846° (41°-20'-59.45")
W -70.750257° (70°-45'-0.92")
APPROXIMATE GROUND ELEVATION 101.7'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

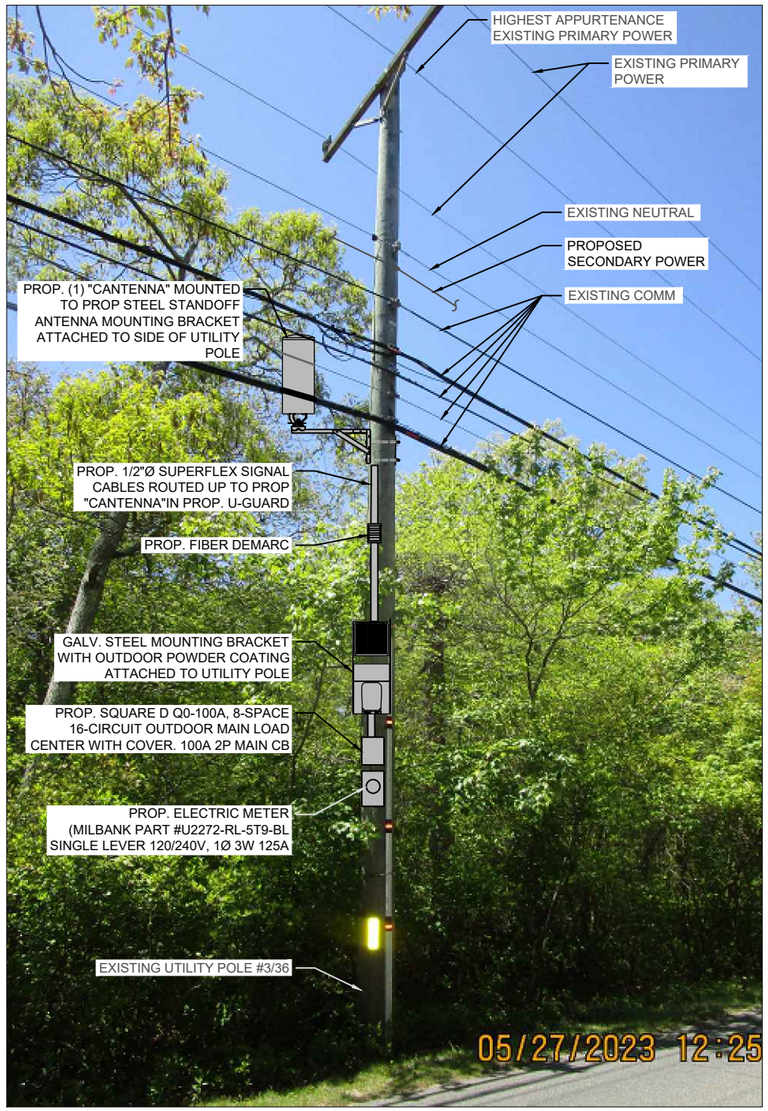
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23

GENERAL NOTES:

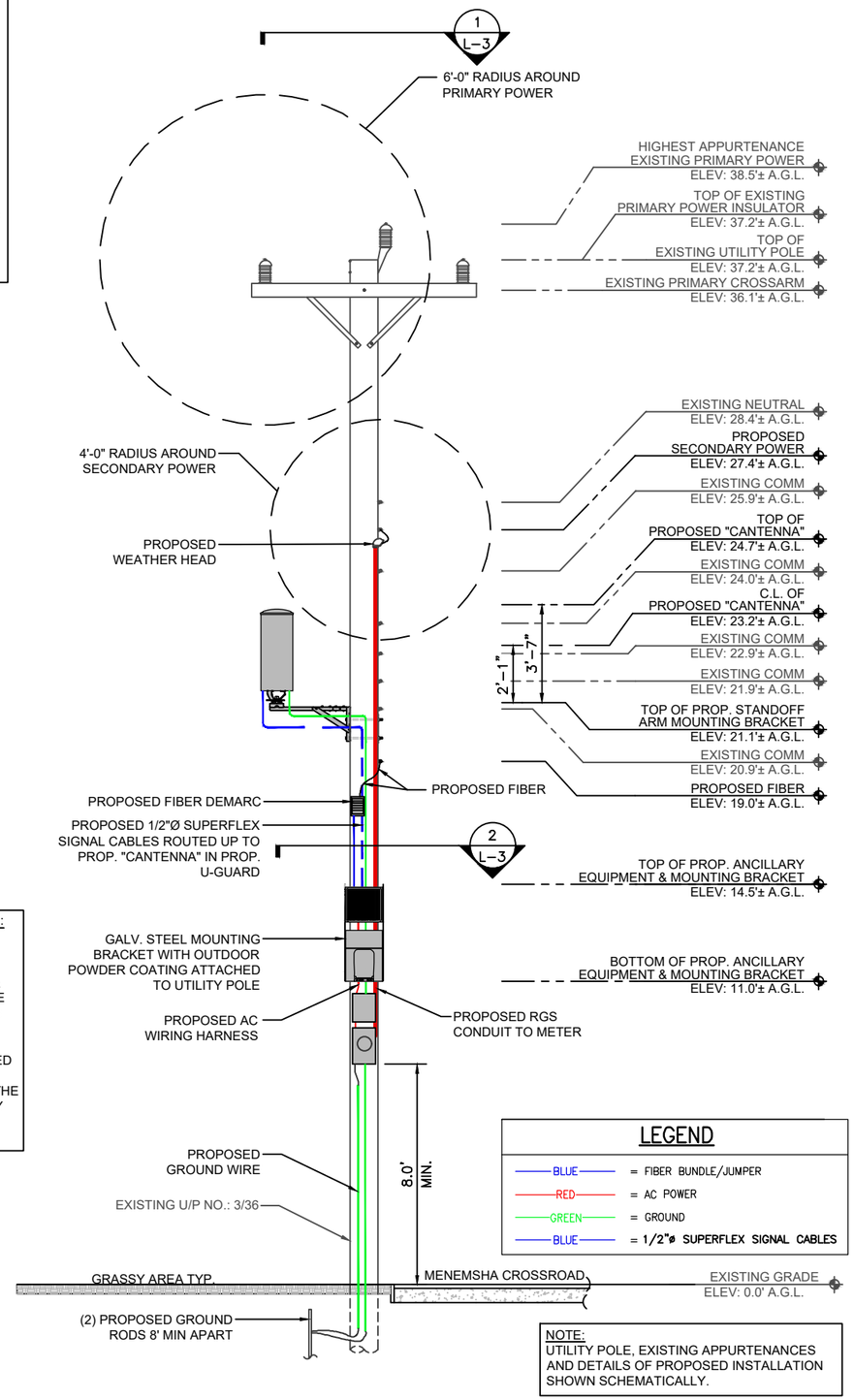
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 3/36 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



UTILITY POLE # 3/36 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC24_MA

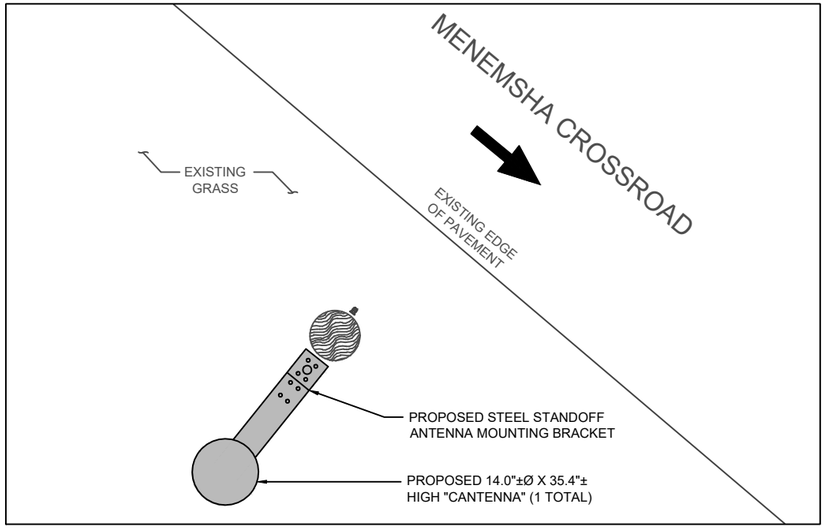
UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

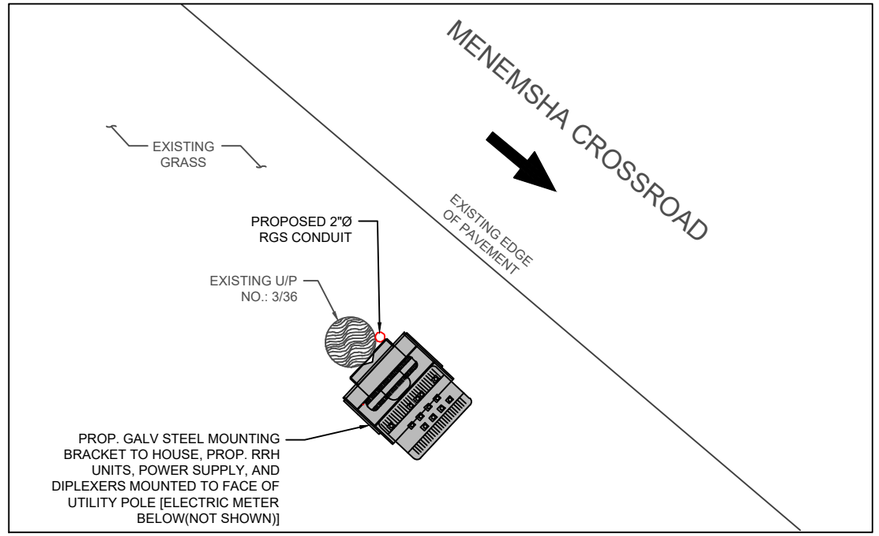
SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

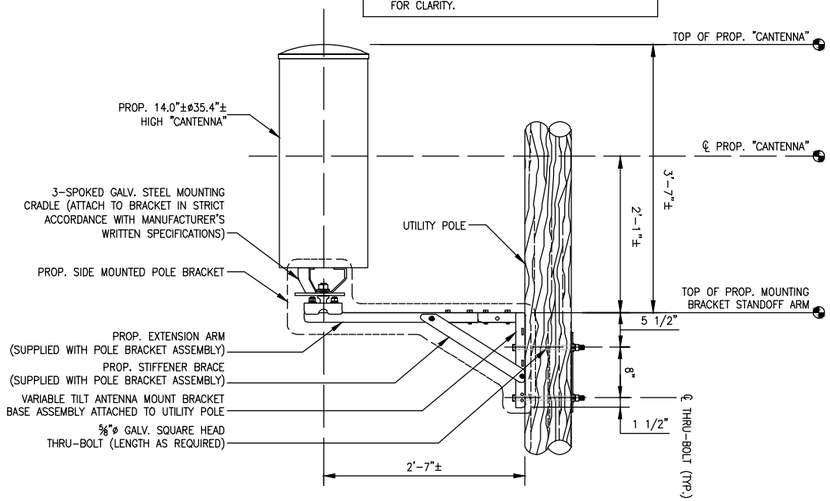
NORTH

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

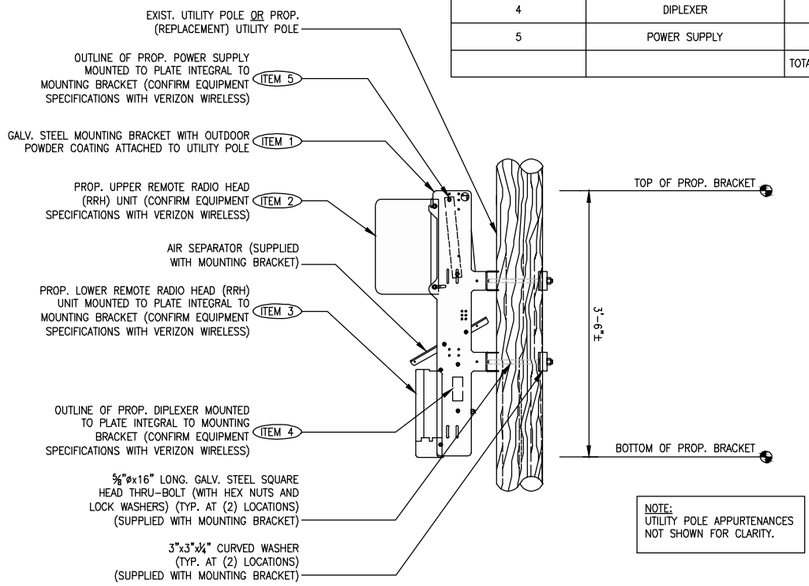
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:

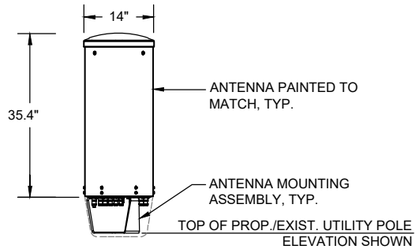
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

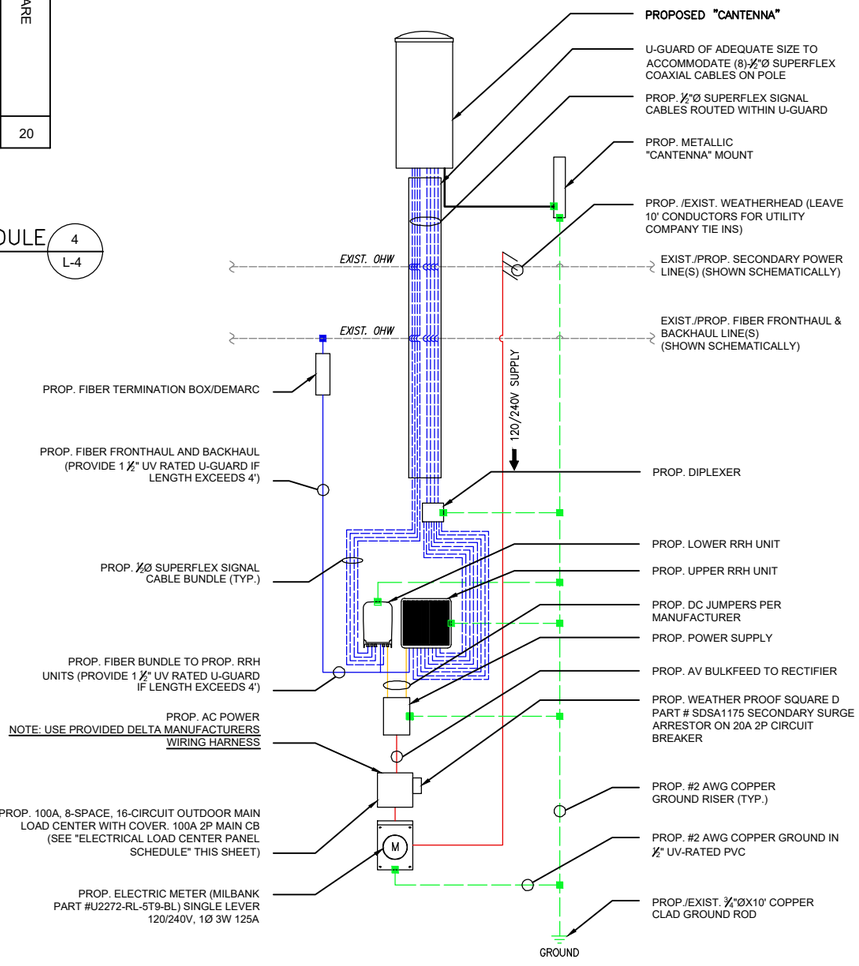
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC24_MA

UTILITY POLE #3/36
58 MENEMSHA CROSSROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930975
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087887	06/12/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

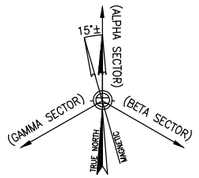
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125077
Customer Application Number	ChilmarkSC24MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-POLE TOP 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	

Total Attachments	4
Total Attachments Billable	4
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 04/08/2025
Date	04/08/2025
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 25, near 55 Tabor House Road, Chilmark, MA



SITE NAME: CHILMARK_SC25_MA

CLUSTER: CHILMARK

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #136/16
N 41.36667° (41° 22' 0.01")
W -70.728888° (70° 43' 44.00")
APPROXIMATE GROUND ELEVATION 190.3'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC25_MA
UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

DRAWING NO:
L-1

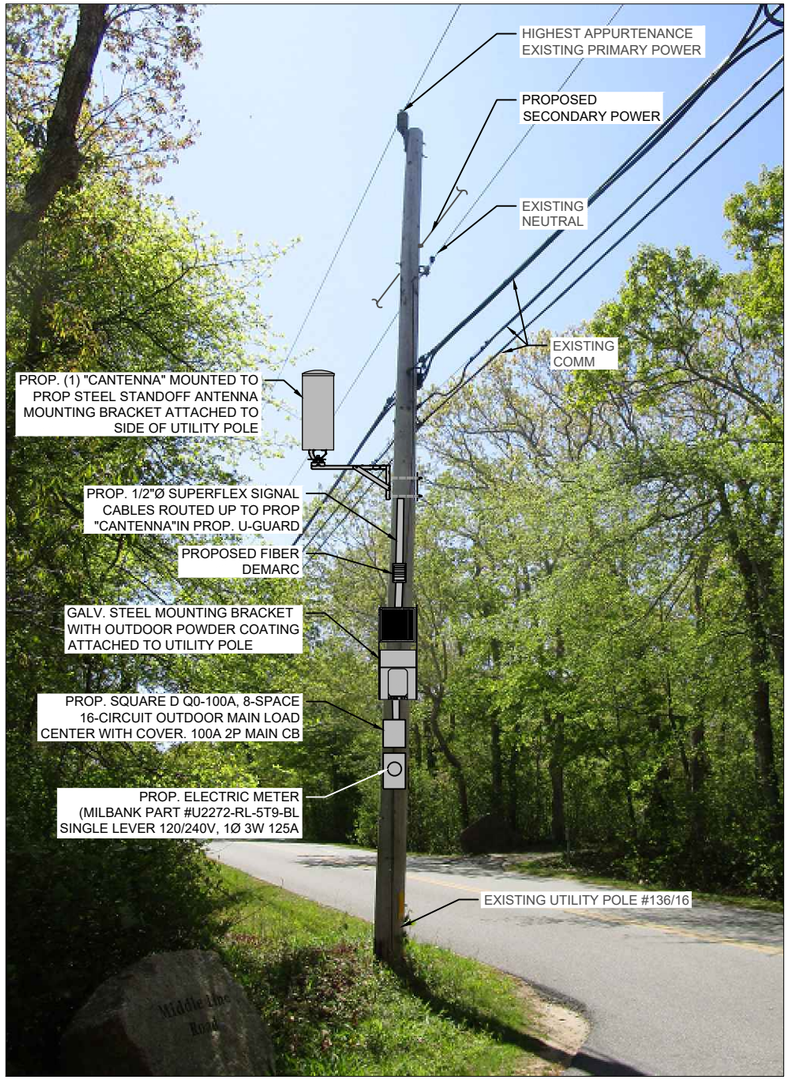
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23

GENERAL NOTES:

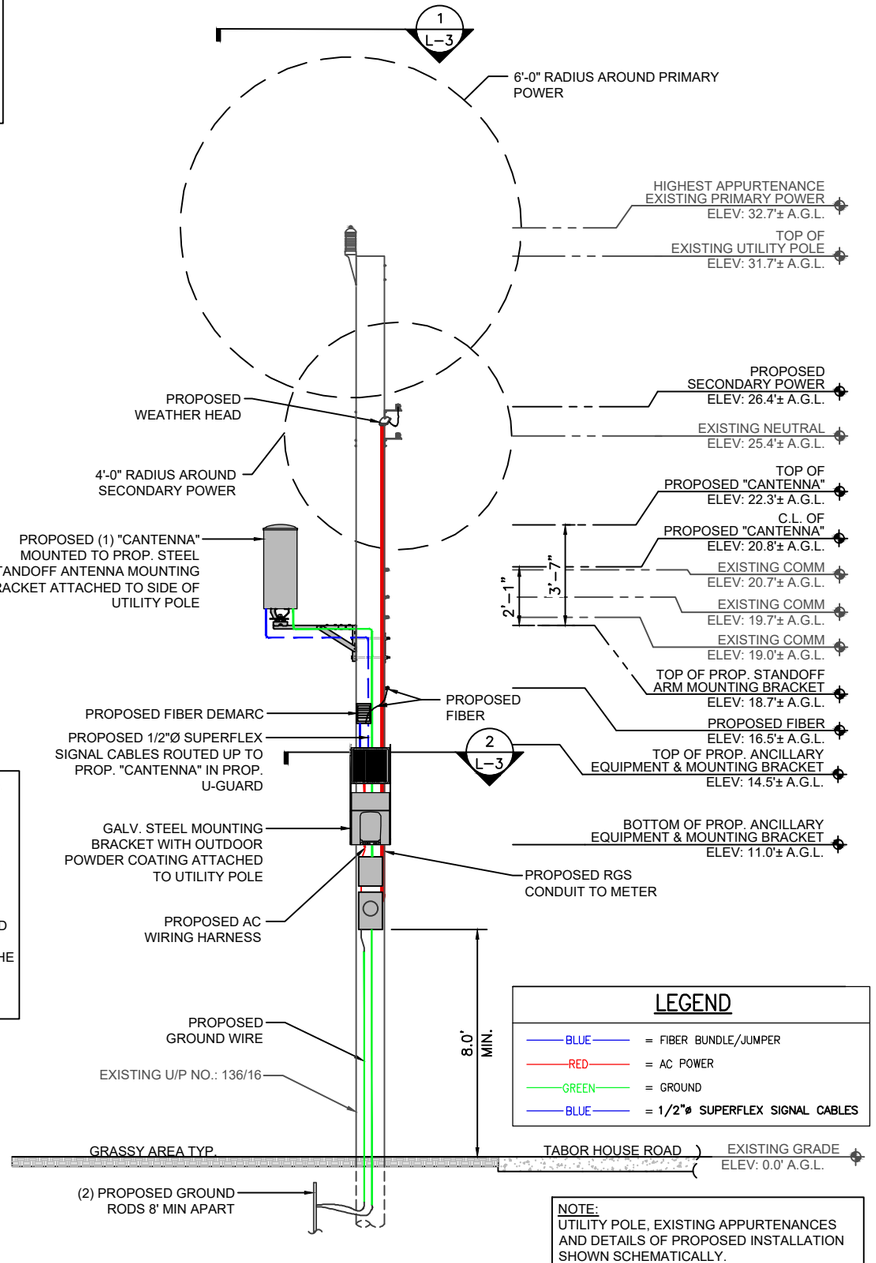
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
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UTILITY POLE # 136/16 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 136/16 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC25_MA

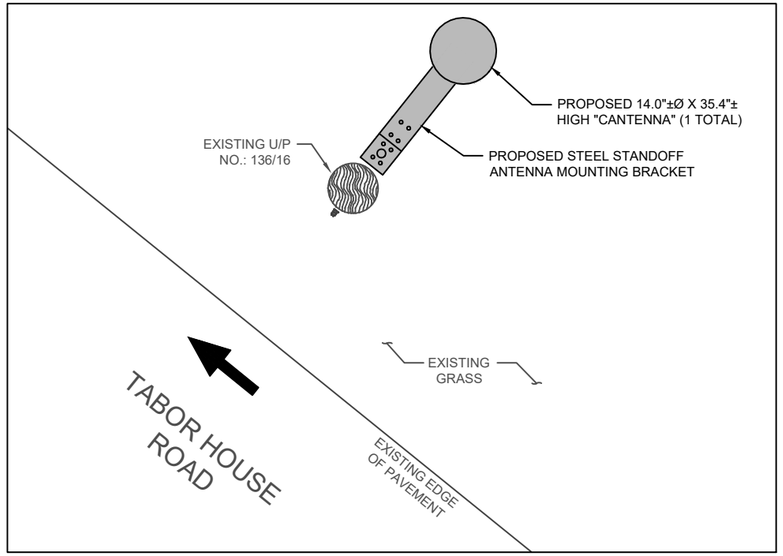
UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

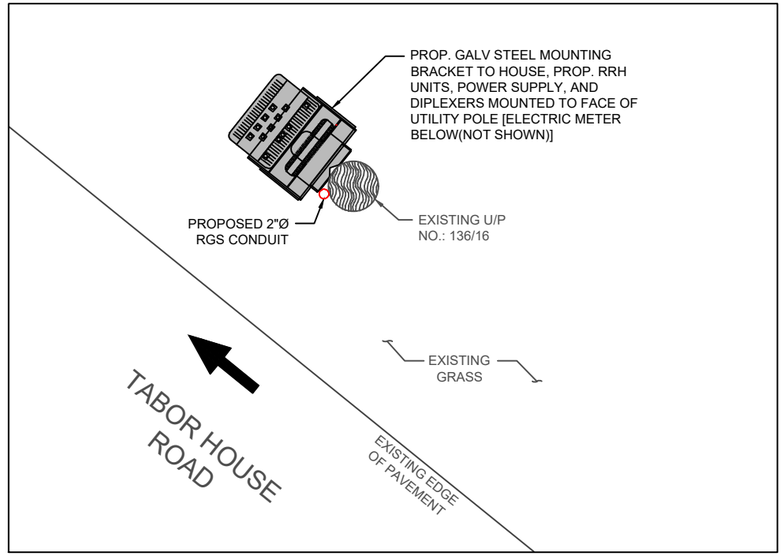
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

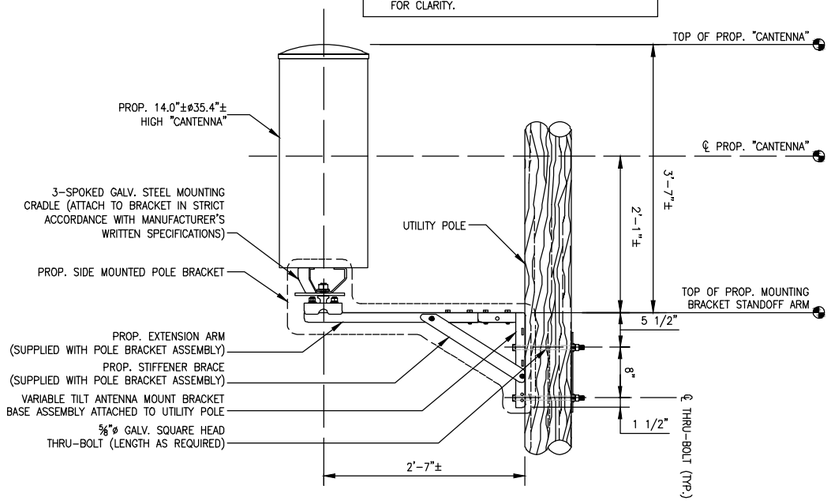
NORTH

0 1'-4" 2'-8" 4'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

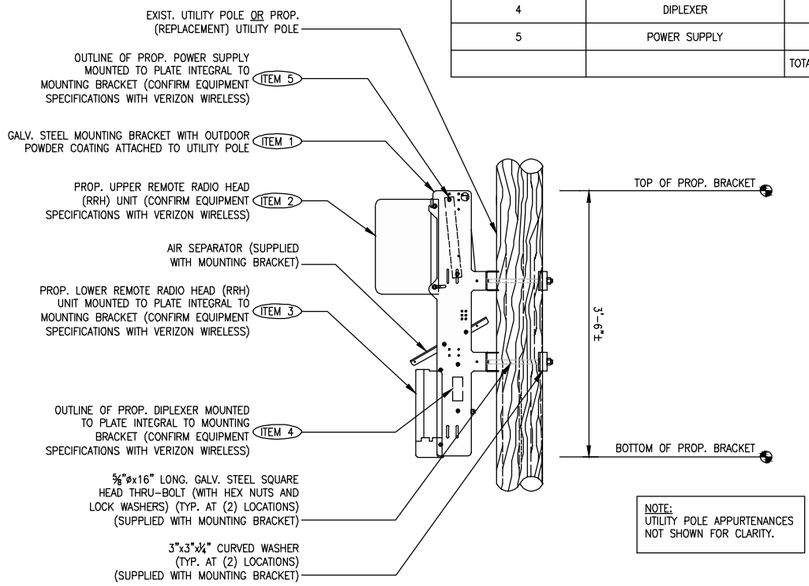
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

verizon

" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC25_MA

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:

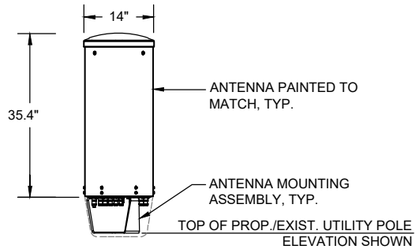
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

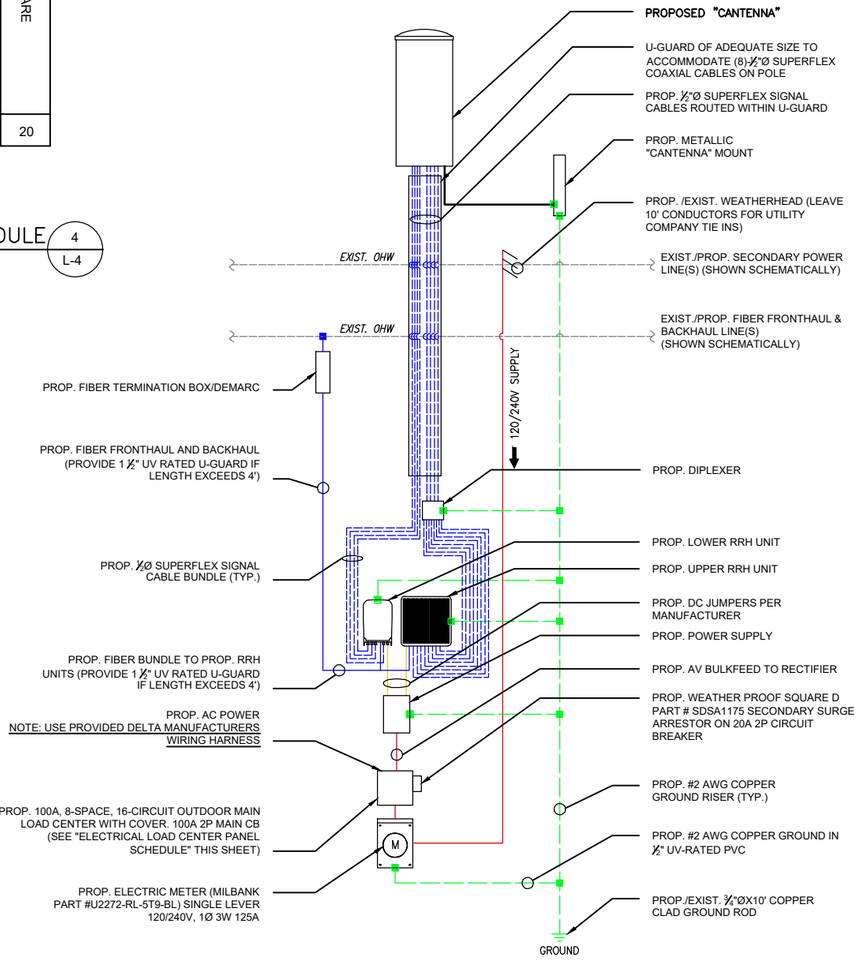
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC25_MA

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 14, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC25_MA
FUZE Project ID: 17087931
MDG Location ID: 5000932313
Site Address: 55 Tabor House Rd
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**53.3**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
31.7'	40/3	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

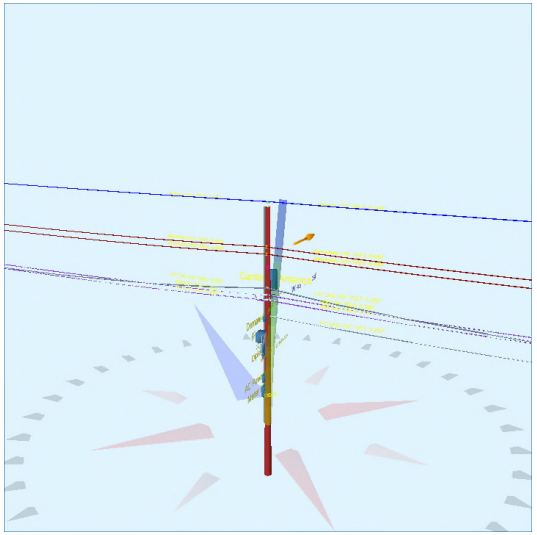
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**136/16**	Pole Length / Class:	**40 / 3**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**8.3**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**36.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**53.3**	0.0	44.8
Groundline	**53.3**	0.0	44.8
Vertical	**12.5**	18.8	44.8

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**43,983**	59.3	44.8
Groundline	**43,983**	59.3	44.8
GL Allowable	**83,712**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 59.3°

	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	581	26.2	**15,753**	35.8	**18.8**	**1,312**	783	8	**1,319**	**19.4**
Comms	1,318	59.4	**23,322**	53.0	**27.9**	**1,942**	1,997	19	**1,961**	**28.8**
GenericEquipments	58	2.6	**838**	1.9	**1.0**	**70**	370	4	**73**	**1.1**
Pole	168	7.6	**2,670**	6.1	**3.2**	**222**	1,766	17	**239**	**3.5**
Crossarms	91	4.1	**1,319**	3.0	**1.6**	**110**	177	2	**111**	**1.6**
Insulators	3	0.1	**81**	0.2	**0.1**	**7**	97	1	**8**	**0.1**
Pole Load	2,219	100.0	**43,983**	100.0	**52.5**	**3,662**	5,190	50	**3,712**	**54.6**
Pole Reserve Capacity			**39,729**		**47.5**	**3,138**			**3,088**	**45.4**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 59.3°

	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 (%)
Existing	1,334	60.1	**28,308**	64.4	**33.8**	**2,357**	2,319	22	**2,379**	**35.0**
Proposed	186	8.4	**4,663**	10.6	**5.6**	**388**	281	3	**391**	**5.7**
Vzw	530	23.9	**8,342**	19.0	**10.0**	**695**	824	8	**702**	**10.3**
Pole	168	7.6	**2,670**	6.1	**3.2**	**222**	1,766	17	**239**	**3.5**
Totals:	2,219	100.0	**43,983**	100.0	**52.5**	**3,662**	5,190	50	**3,712**	**54.6**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	32.41	0.00	0.3550	1.31	0.115	192.0	129.0	192.0	1,065	11,681	0	2,240	13,921
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	32.41	0.00	0.3550	1.18	0.115	180.0	313.0	180.0	1,065	-9,448	0	2,159	-7,289
Secondary	TRIPLEX 6 AWG	Proposed	26.40	6.51	0.5800	2.51	0.113	180.0	313.0	180.0	357	-2,579	-65	2,050	-594
Secondary	TRIPLEX 6 AWG	Proposed	26.40	6.51	0.5800	2.74	0.113	192.0	129.0	192.0	357	3,188	-70	2,127	5,246
Secondary	TRIPLEX 6 AWG	Existing	25.40	6.57	0.5800	2.51	0.113	180.0	313.0	180.0	357	-2,481	-66	1,972	-575
Secondary	TRIPLEX 6 AWG	Existing	25.40	6.57	0.5800	2.74	0.113	192.0	129.0	192.0	357	3,067	-70	2,046	5,044
											Totals:	**3,429**	**-271**	**12,595**	**15,753**

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	1/4" EHS	Existing	20.70	6.88	0.2500	4.04	0.121	180.0	313.0	180.2	800	-4,531	-35	1,347	-3,219
Telco	26 GA 50 PR (0.58)	Existing	20.68	7.18	0.5800		0.180	180.0	313.0	180.2			-42	329	287
Telco	26 GA 50 PR (0.58)	Existing	20.68	6.58	0.5800		0.180	180.0	313.0	180.2			-39	329	291
Telco	26 GA 50 PR (0.58)	Existing	20.64	6.88	0.5800		0.180	180.0	313.0	180.2			-40	329	288
Overlashed Bundle	1/4" EHS	Existing	20.70	6.88	0.2500	4.53	0.121	192.0	129.0	192.3	800	5,602	-38	1,398	6,962
Telco	26 GA 50 PR (0.58)	Existing	20.68	7.18	0.5800		0.180	192.0	129.0	192.3			-45	342	297
Telco	26 GA 50 PR (0.58)	Existing	20.68	6.58	0.5800		0.180	192.0	129.0	192.3			-41	342	301
Telco	26 GA 50 PR (0.58)	Existing	20.64	6.88	0.5800		0.180	192.0	129.0	192.3			-43	341	298
Overlashed Bundle	10M	Existing	19.70	6.94	0.3060	2.20	0.165	192.0	129.0	192.1	2,000	13,328	-56	1,438	14,710
CATV	CATV .50	Existing	19.67	6.94	0.5700		0.600	192.0	129.0	192.1			-97	433	336
Overlashed Bundle	10M	Existing	19.70	6.94	0.3060	1.95	0.165	180.0	313.0	180.0	2,000	-10,780	-52	1,386	-9,447
CATV	CATV .50	Existing	19.67	6.94	0.5700		0.600	180.0	313.0	180.0			-91	422	331
Overlashed Bundle	10M	Existing	19.00	6.99	0.3060	2.20	0.165	192.0	129.0	192.1	2,000	12,854	-56	1,387	14,185
CATV	CATV .50	Existing	18.97	6.99	0.5700		0.600	192.0	129.0	192.1			-97	417	320
Overlashed Bundle	10M	Existing	19.00	6.99	0.3060	1.95	0.165	180.0	313.0	180.0	2,000	-10,397	-53	1,337	-9,113
CATV	CATV .50	Existing	18.97	6.99	0.5700		0.600	180.0	313.0	180.0			-91	402	311
Overlashed Bundle	1/4" EHS	Vzw	16.50	7.15	0.2500	2.88	0.121	192.0	129.0	192.1	800	4,465	21	1,257	5,744
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	16.46	7.15	0.7560		0.208	192.0	129.0	192.1			25	415	440
											Totals:	**10,541**	**-870**	**13,650**	**23,322**

GenericEquipment		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	Meter	Vzw	5.00	7.80	313.0	0.0	16.25	18.50	4.80	--	10.00	-5	33	27
Box	AC Power	Vzw	7.00	7.41	313.0	0.0	9.93	12.65	4.27	--	8.88	-3	28	25
Box	RRU	Vzw	13.33	12.49	309.0	0.0	102.50	17.30	11.50	--	17.30	-83	179	96
Box	Diplexer	Vzw	10.67	8.36	309.0	0.0	7.60	4.80	3.30	--	7.90	-3	15	11
Box	RRU	Vzw	11.67	9.16	309.0	0.0	21.40	13.90	4.80	--	9.80	-13	61	48
Box	Demarc	Vzw	16.00	6.04	313.0	0.0	2.00	9.60	2.70	--	7.00	-1	31	30
Cylinder	Cantenna Antenna	Vzw	20.78	36.78	120.0	0.0	35.00	35.40	--	14.00	--	175	426	601
											Totals:	**67**	**772**	**838**

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	Bracket	Vzw	12.00	-6.80	129.0	129.0	28.00	42.00	0.50	21.00	-10	46	36
Normal	Riser	Vzw	15.85	6.20	315.0	315.0	37.40	380.40	3.00	3.00	-9	1,329	1,320
Offset	Standoff	Vzw	18.70	1.70	120.0	120.0	28.00	1.50	5.38	31.00	-55	18	-37
										Totals:	**-74**	**1,393**	**1,319**

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)
Pin	Pin Insulator - 10 kV	Existing	31.70	0.00	0.0	0.0	7.00	4.50	8.50	0	56	56
Spool	Spool 3"	Proposed	26.40	0.00	216.0	216.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Existing	25.40	0.00	216.0	216.0	2.00	3.00	3.19	0	11	11
Bolt	Three Bolt	Existing	20.70	0.00	216.0	216.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	19.70	0.00	216.0	216.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	19.00	0.00	216.0	216.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.00	-9.06	301.1	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.00	-24.07	309.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.33	2.94	301.1	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	19.20	-32.88	32.6	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	16.50	0.00	129.0	129.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**81**	**81**

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	18.83	33.22	10.64	6.82	7.32	11.46	1.60e+6	60.00	57.00	31.70	41,408	**415.22**	**8.00**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC25MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number CHILMARKSC25MA is hereby granted to make 1 Antenna / Node attachment described in this application to _____ attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

CHILMARKSC25MA
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Administration

Date January 28, 2025

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC25MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC25MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125078
Customer Application Number	ChilmarkSC25MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/21/2023
Date	12/21/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 9/28/23 ***WO Received Date:*** _____
Service Address: Street: 55 TABOR HOUSE RD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:
Customer Responsible for Payment of Monthly Electric Bills
Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

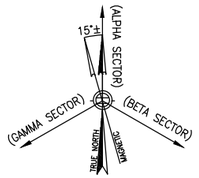
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC25_MA

CLUSTER: CHILMARK

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #136/16
N 41.36667° (41° 22' 0.01")
W -70.728888° (70° 43' 44.00")
APPROXIMATE GROUND ELEVATION 190.3'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC25_MA
UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

DRAWING NO:
L-1

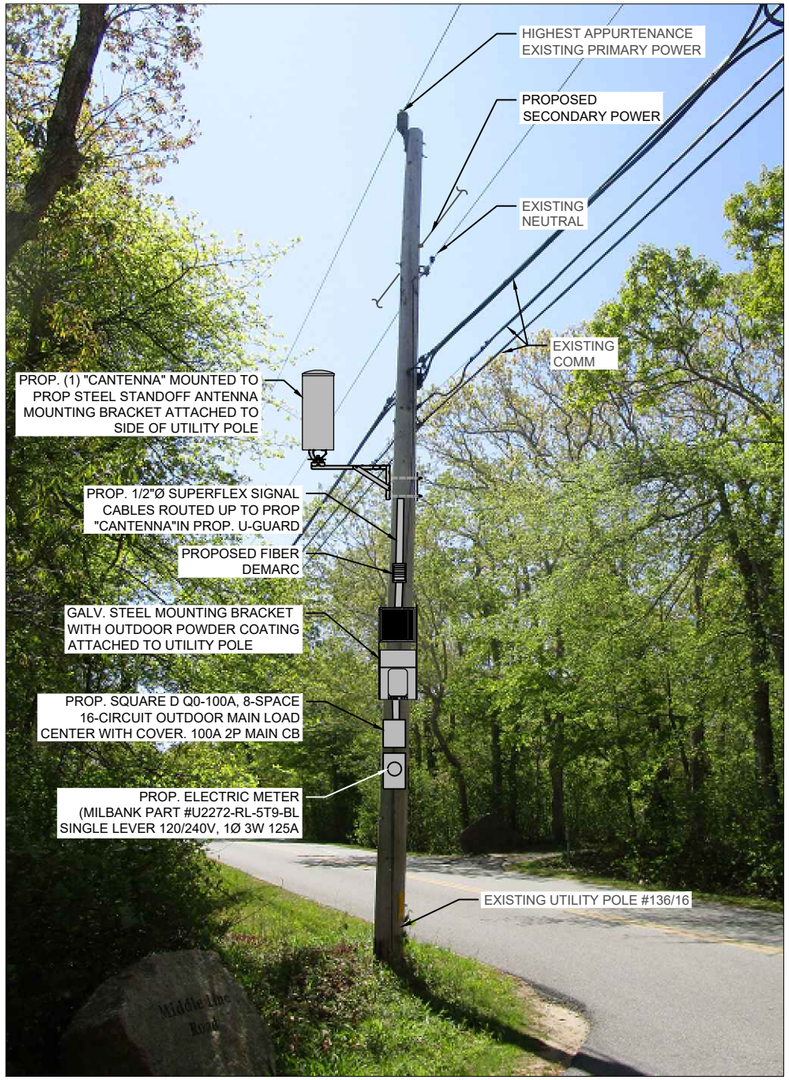
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23

GENERAL NOTES:

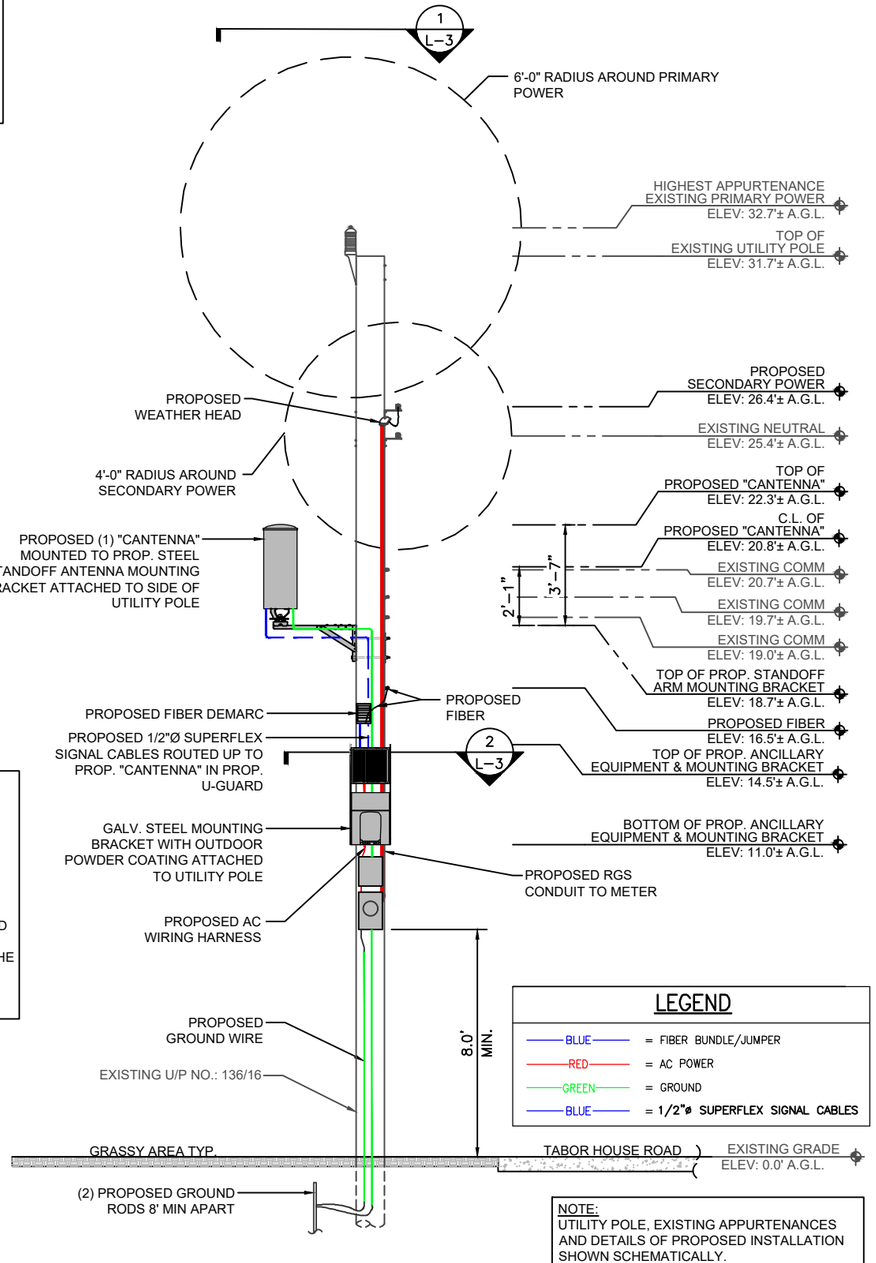
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE



UTILITY POLE # 136/16 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 136/16 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

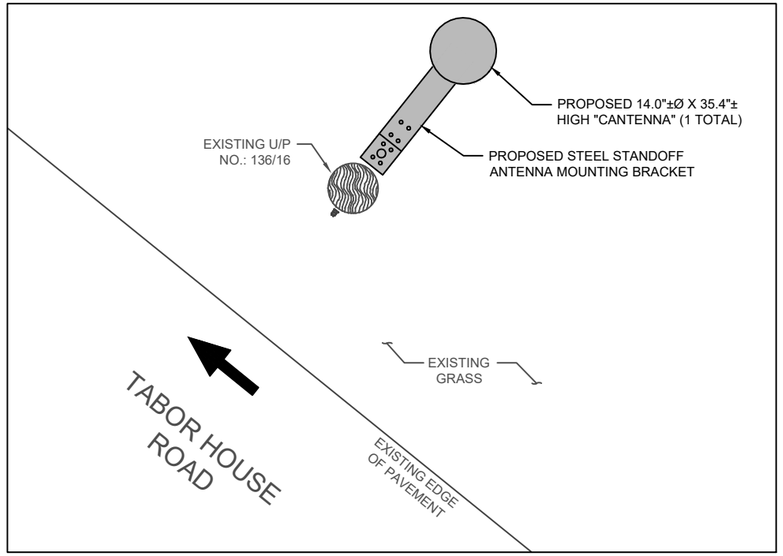
SITE NAME:
CHILMARK_SC25_MA
UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

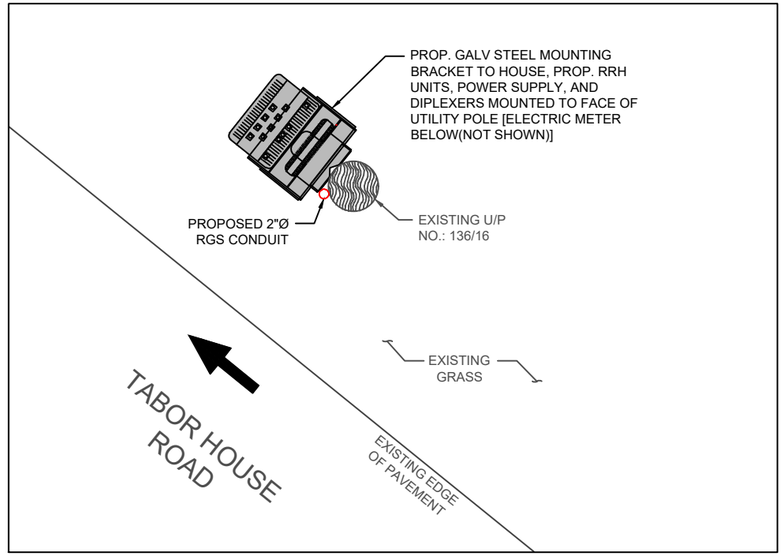
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

NORTH

0 1'-4" 2'-8" 4'-0"



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

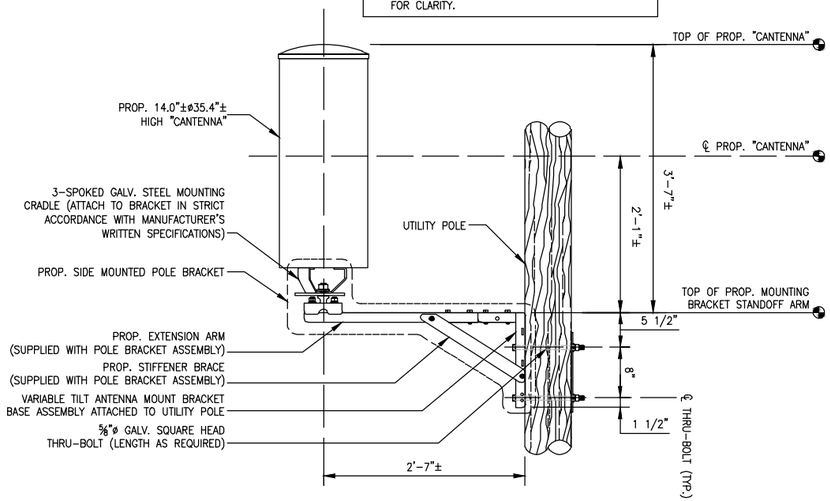
NORTH

0 1'-4" 2'-8" 4'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

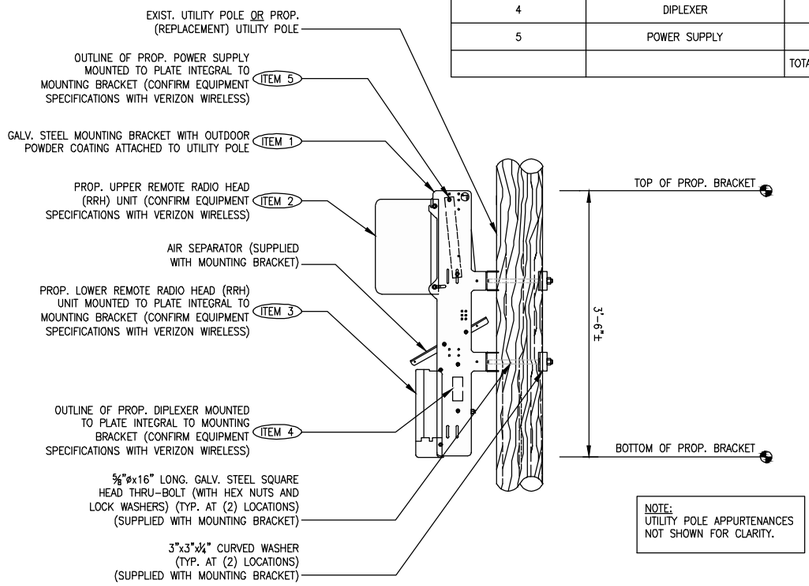
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
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1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC25_MA

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:

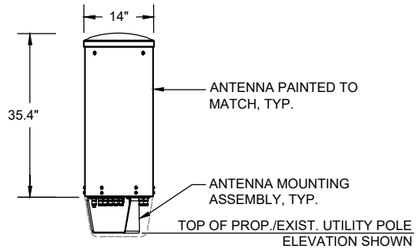
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

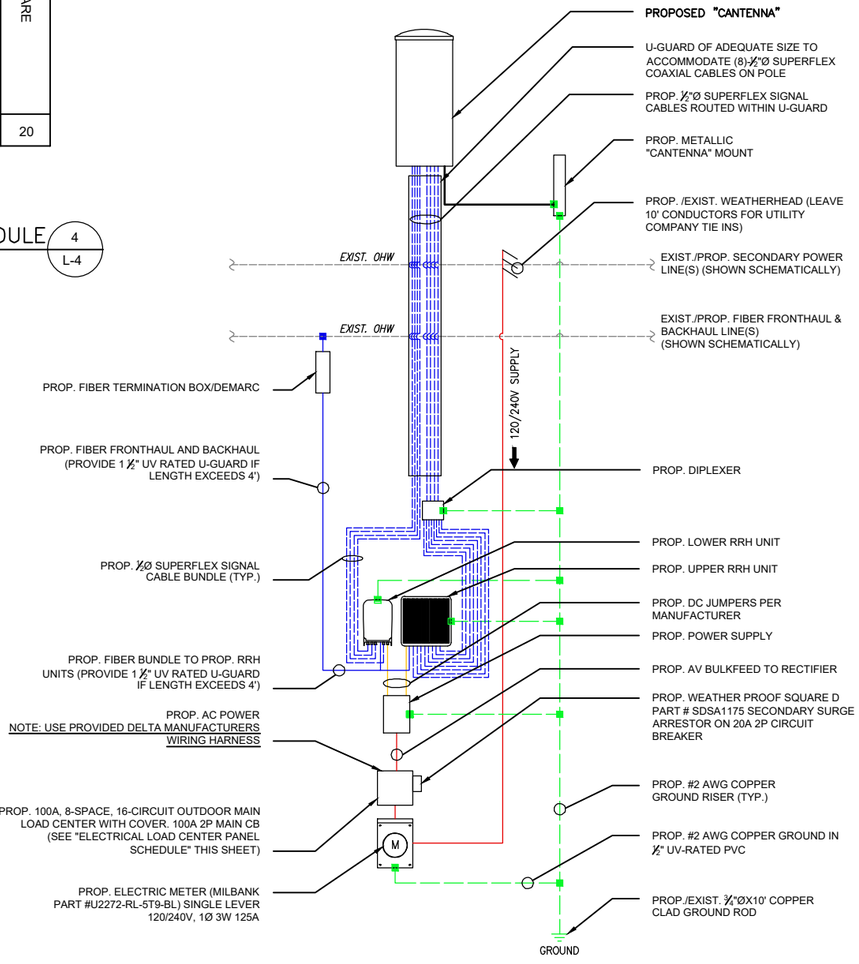
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

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0	ISSUED FOR REVIEW	07/03/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC25_MA

UTILITY POLE #136/16
55 TABOR HOUSE RD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932313
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087931	07/03/23	05/27/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

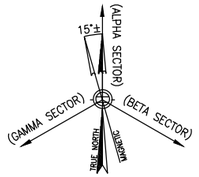
Licensee	VERIZON WIRELESS MA
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125077
Customer Application Number	ChilmarkSC24MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-POLE TOP 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	

Total Attachments	4
Total Attachments Billable	4
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 04/08/2025
Date	04/08/2025
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

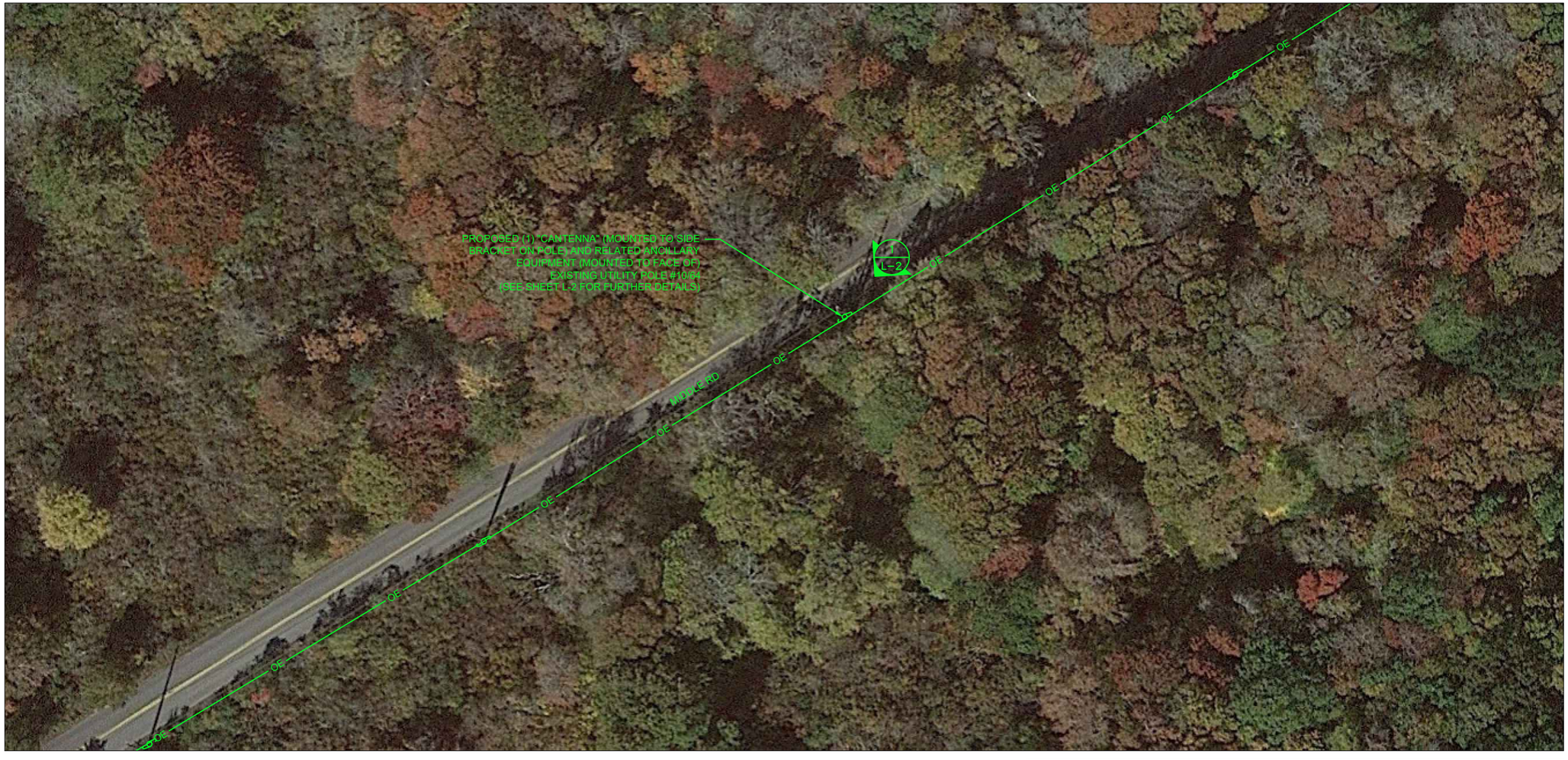
Project Location - Chilmark SC 26, Middle Road (utility pole #10/64), Chilmark, MA



SITE NAME: CHILMARK_SC26_MA

CLUSTER: CHILMARK

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/64
N 41.369240° (41°-22'-09.26")
W -70.708844° (70°-42'-31.84")
APPROXIMATE GROUND ELEVATION 111.50'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
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L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
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PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

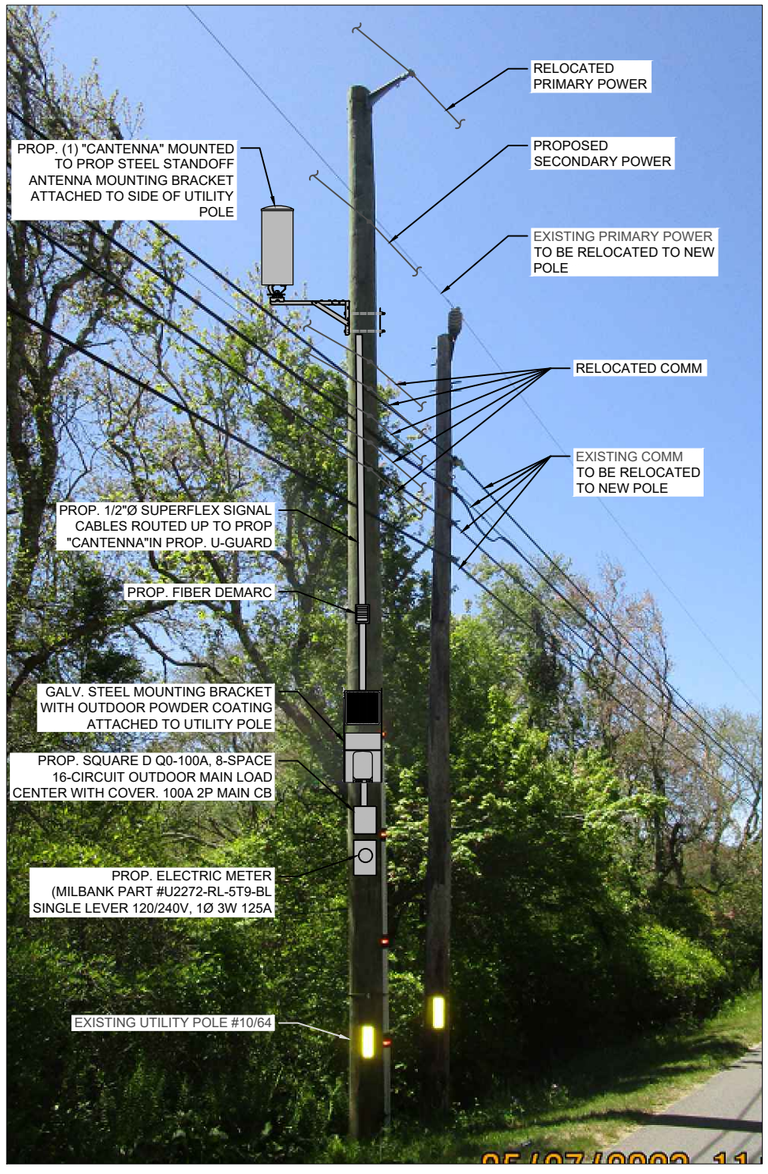
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23

GENERAL NOTES:

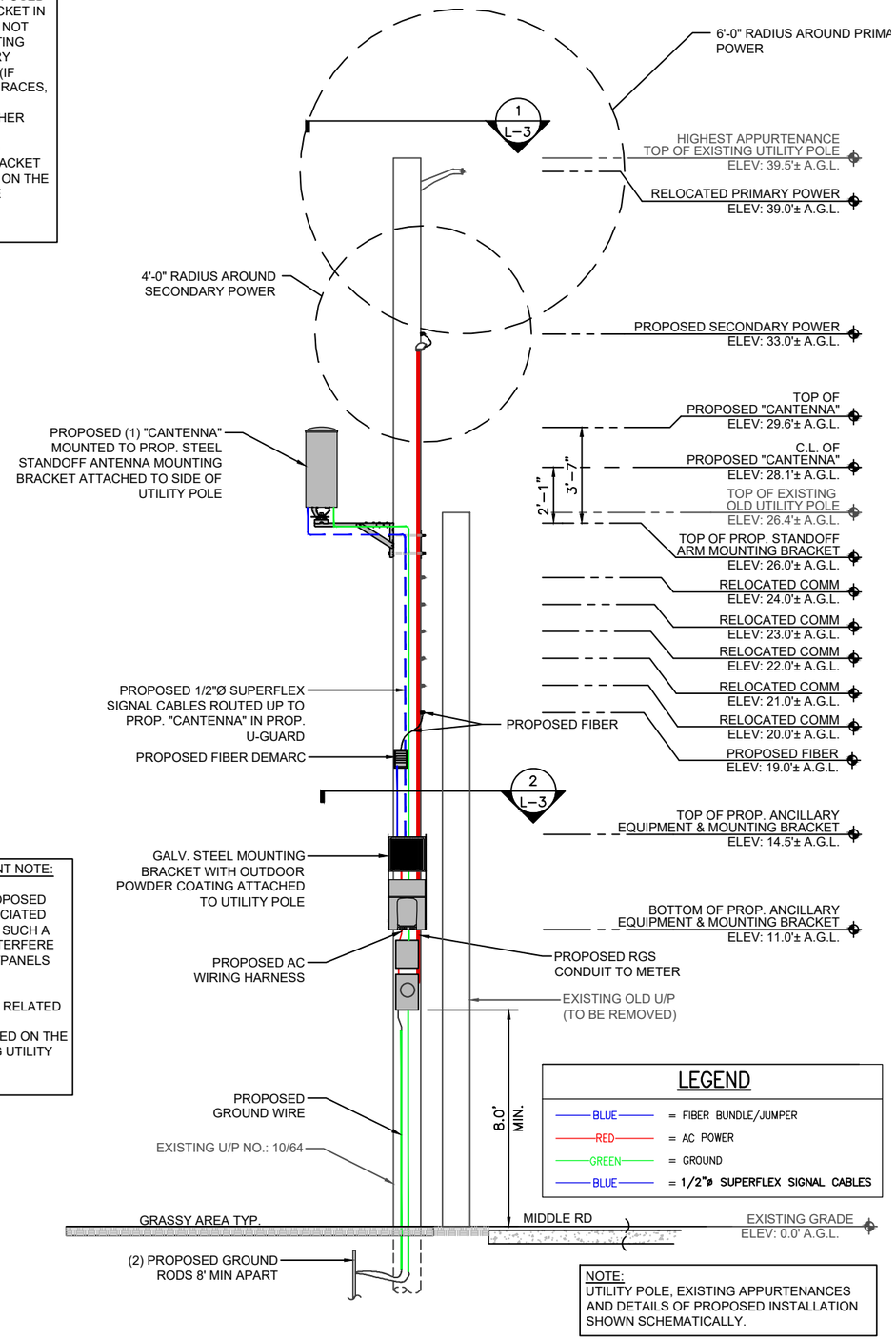
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 10/64 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/64 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC26_MA

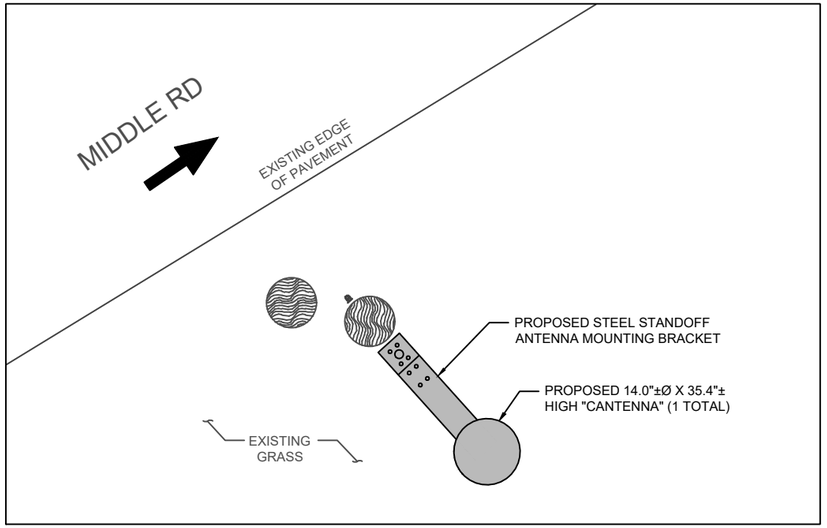
UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

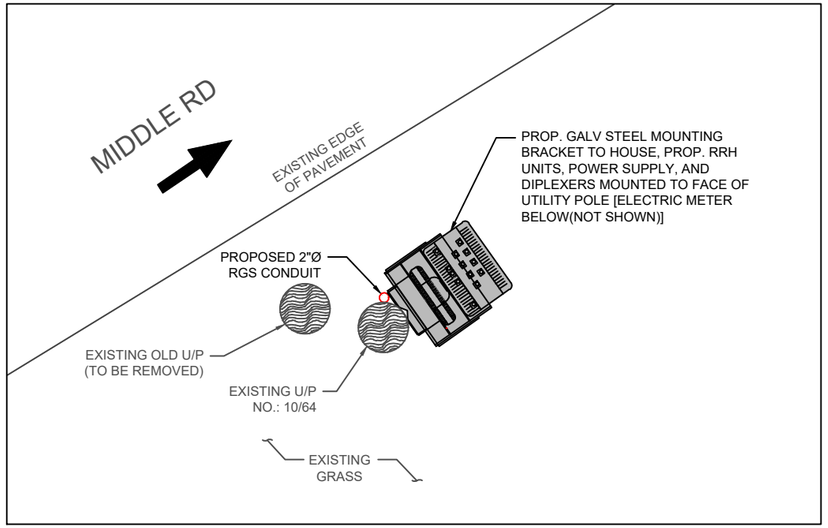
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

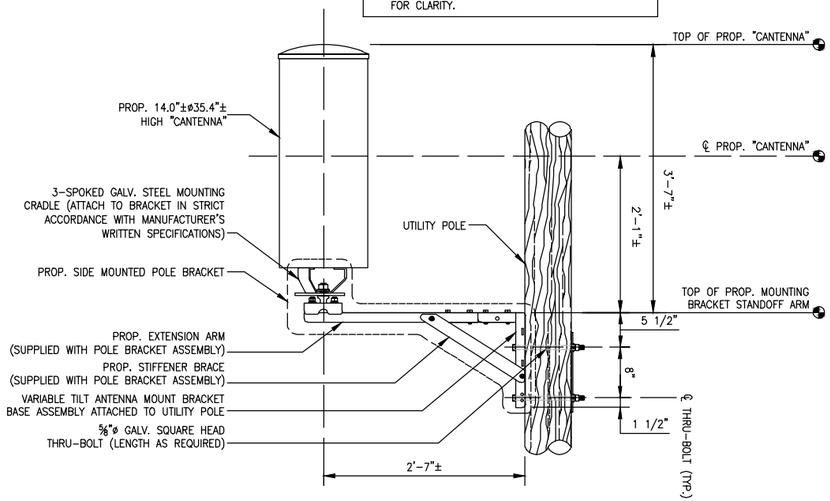
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

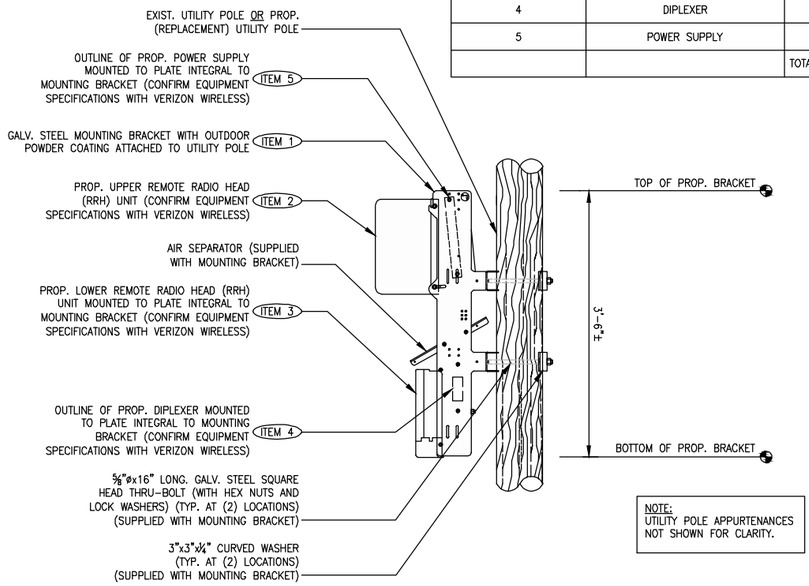
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

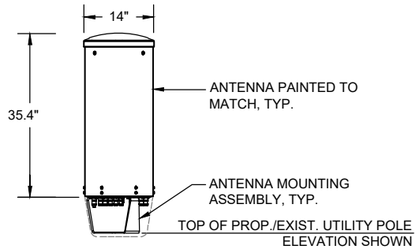
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

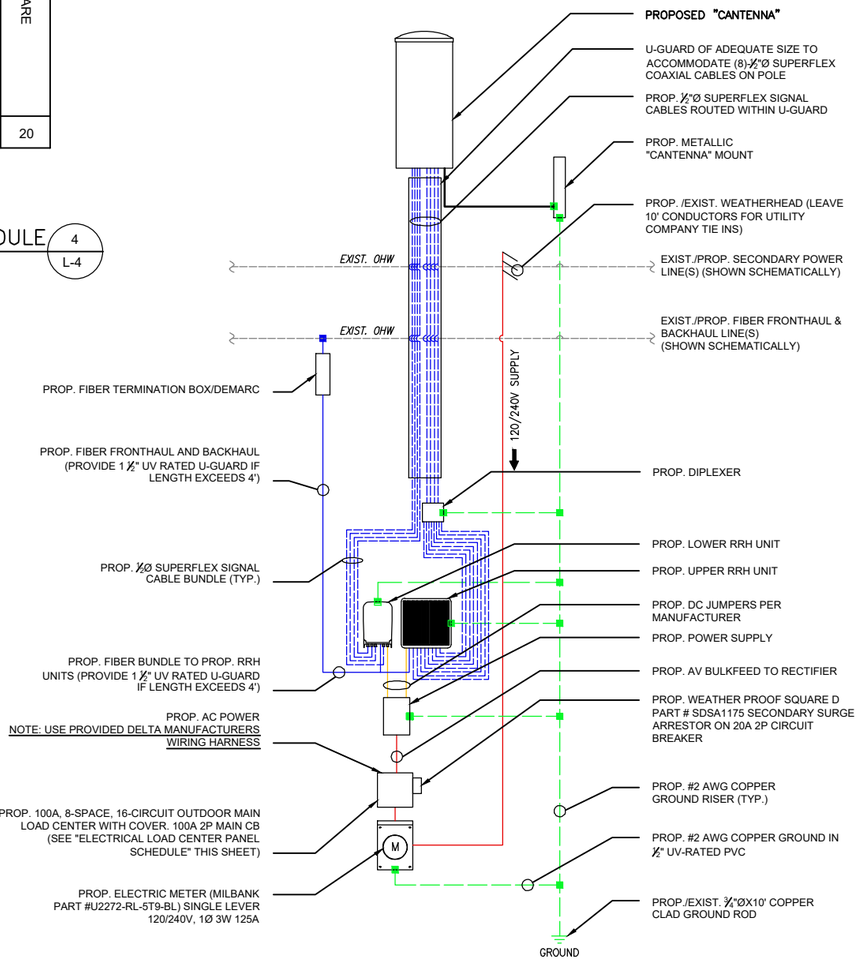
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 25, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC26_MA
FUZE Project ID: 17088020
MDG Location ID: 5000930978
Site Address: 0 Middle Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**38.4**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
39.5'	45/1	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

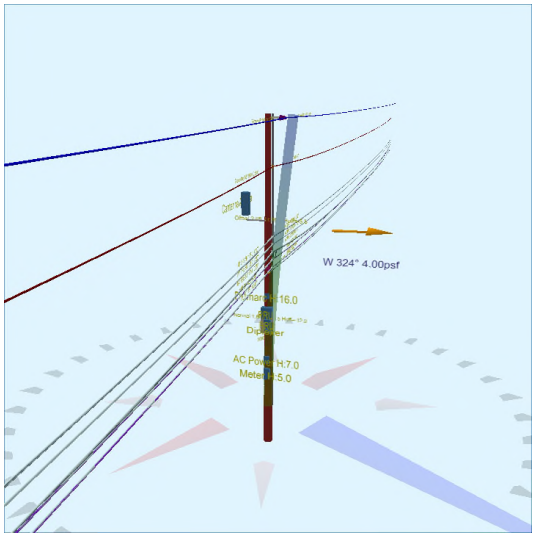
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**10/64**	Pole Length / Class:	**45 / 1**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**5.5**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**43.21**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	**38.4**	0.0	324.1
Groundline	**38.4**	0.0	324.1
Vertical	**10.4**	21.1	324.1

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	**54,477**	310.9	324.1
Groundline	**54,477**	310.9	324.1
GL Allowable	**144,705**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 310.9°

	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	313	14.5	**12,504**	23.0	**8.6**	**560**	522	4	**563**	**8.3**
Comms	1,421	65.8	**33,358**	61.2	**23.1**	**1,493**	2,841	19	**1,512**	**22.2**
GenericEquipments	58	2.7	**764**	1.4	**0.5**	**34**	370	2	**37**	**0.5**
Pole	251	11.6	**5,201**	9.6	**3.6**	**233**	3,121	21	**254**	**3.7**
Crossarms	111	5.2	**2,399**	4.4	**1.7**	**107**	177	1	**109**	**1.6**
Insulators	6	0.3	**251**	0.5	**0.2**	**11**	213	1	**13**	**0.2**
Pole Load	2,161	100.0	**54,477**	100.0	**37.7**	**2,438**	7,244	49	**2,487**	**36.6**
Pole Reserve Capacity			**90,228**		**62.4**	**4,362**			**4,313**	**63.4**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 310.9°

	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 (%)
Existing	1,223	56.6	**33,068**	60.7	**22.9**	**1,480**	2,995	20	**1,500**	**22.1**
Proposed	169	7.8	**6,035**	11.1	**4.2**	**270**	290	2	**272**	**4.0**
Vzw	518	24.0	**10,173**	18.7	**7.0**	**455**	839	6	**461**	**6.8**
Pole	251	11.6	**5,201**	9.6	**3.6**	**233**	3,121	21	**254**	**3.7**
Totals:	2,161	100.0	**54,477**	100.0	**37.7**	**2,438**	7,244	49	**2,487**	**36.6**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	39.00	28.33	0.3550	1.23	0.115	185.0	58.0	185.0	1,065	-12,848	269	2,855	-9,724
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	39.00	28.33	0.3550	1.39	0.115	199.0	238.0	199.0	1,065	12,848	290	3,071	16,208
Secondary	TRIPLEX 6 AWG	Proposed	33.00	7.22	0.5800	2.87	0.113	199.0	238.0	199.0	357	3,644	90	3,030	6,764
Secondary	TRIPLEX 6 AWG	Proposed	33.00	7.22	0.5800	2.61	0.113	185.0	58.0	185.0	357	-3,644	83	2,817	-744
											Totals:	**0**	**732**	**11,772**	**12,504**

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	1/4" EHS	Existing	24.00	7.81	0.2500	2.58	0.121	185.0	58.0	185.1	800	-5,939	66	1,918	-3,955

Telco	26 GA 50 PR (0.58)	Existing	23.96	7.81	0.5800		0.180	185.0	58.0	185.1			73	620	693
Overlashed Bundle	1/4" EHS	Existing	24.00	7.81	0.2500	2.92	0.121	199.0	238.0	199.1	800	5,939	71	2,063	8,073
Telco	26 GA 50 PR (0.58)	Existing	23.96	7.81	0.5800		0.180	199.0	238.0	199.1			78	667	745
Overlashed Bundle	1/4" EHS	Existing	23.00	7.87	0.2500	1.14	0.121	185.0	58.0	185.1	800	-5,692	70	1,591	-4,031
Overlashed Bundle	1/4" EHS	Existing	23.00	7.87	0.2500	1.31	0.121	199.0	238.0	199.1	800	5,692	75	1,711	7,478
Overlashed Bundle	1/4" EHS	Existing	22.00	7.94	0.2500	3.58	0.121	185.0	58.0	185.1	800	-5,444	63	1,793	-3,589
Telco	26 GA 50 PR (0.58)	Existing	21.96	7.94	0.5800		0.180	185.0	58.0	185.1			70	603	673
Telco	26 GA 50 PR (0.58)	Existing	21.91	7.94	0.5800		0.180	185.0	58.0	185.1			70	602	672
Overlashed Bundle	1/4" EHS	Existing	22.00	7.94	0.2500	4.06	0.121	199.0	238.0	199.2	800	5,444	68	1,928	7,440
Telco	26 GA 50 PR (0.58)	Existing	21.96	7.94	0.5800		0.180	199.0	238.0	199.2			75	649	724
Telco	26 GA 50 PR (0.58)	Existing	21.91	7.94	0.5800		0.180	199.0	238.0	199.2			75	654	729
Overlashed Bundle	10M	Existing	21.00	8.01	0.3060	2.12	0.165	185.0	58.0	185.1	2,000	-12,992	79	1,780	-11,133
CATV	CATV .50	Existing	20.94	8.01	0.5700		0.600	185.0	58.0	185.1			131	644	774
Overlashed Bundle	10M	Existing	21.00	8.01	0.3060	2.43	0.165	199.0	238.0	199.1	2,000	12,992	85	1,915	14,992
CATV	CATV .50	Existing	20.94	8.01	0.5700		0.600	199.0	238.0	199.1			140	692	833
Overlashed Bundle	10M	Existing	20.00	8.07	0.3060	2.12	0.165	185.0	58.0	185.1	2,000	-12,373	80	1,695	-10,598
CATV	CATV .50	Existing	19.94	8.07	0.5700		0.600	185.0	58.0	185.1			132	613	745
Overlashed Bundle	10M	Existing	20.00	8.07	0.3060	2.43	0.165	199.0	238.0	199.1	2,000	12,373	86	1,823	14,283
CATV	CATV .50	Existing	19.94	8.07	0.5700		0.600	199.0	238.0	199.1			142	659	801
Overlashed Bundle	1/4" EHS	Vzw	19.00	8.14	0.2500	3.11	0.121	199.0	238.0	199.1	800	4,702	24	1,680	6,406
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	18.96	8.14	0.7560		0.208	199.0	238.0	199.1			27	575	602
											Totals:	**4,702**	**1,781**	**26,875**	**33,358**

GenericEquipment		**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	Meter	Vzw	5.00	8.95	58.0	0.0	16.25	18.50	4.80	--	10.00	-7	36	29
Box	AC Power	Vzw	7.00	8.55	58.0	0.0	9.93	12.65	4.27	--	8.88	-4	31	27
Box	RRU	Vzw	13.83	11.38	58.0	0.0	102.50	17.30	11.50	--	17.30	-41	200	158
Box	Diplexer	Vzw	11.17	7.24	58.0	0.0	7.60	4.80	3.30	--	7.90	-3	16	13
Box	RRU	Vzw	12.17	8.05	58.0	0.0	21.40	13.90	4.80	--	9.80	-5	68	63
Box	Demarc	Vzw	16.00	7.18	58.0	0.0	2.00	9.60	2.70	--	7.00	-1	34	33
Cylinder	Cantenna Antenna	Vzw	28.13	36.80	240.0	0.0	35.00	35.40	--	14.00	--	-200	640	441
											Totals:	**-261**	**1,025**	**764**

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	Bracket	Vzw	12.50	-5.69	238.0	238.0	28.00	42.00	0.50	21.00	-8	39	31
Normal	Riser	Vzw	19.75	7.09	315.0	315.0	37.40	474.00	3.00	3.00	44	2,233	2,277
Offset	Standoff	Vzw	26.00	2.37	240.0	240.0	28.00	1.50	5.38	31.00	72	19	91
										Totals:	**108**	**2,291**	**2,399**

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)
Davit	Insulator, 15 kV	Existing	39.00	0.00	328.0	328.0	60.00	5.00	24.00	0	233	233
Spool	Spool 3"	Proposed	33.00	0.00	328.0	328.0	2.00	3.00	3.19	0	16	16
Bolt	Three Bolt	Existing	24.00	0.00	328.0	328.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	23.00	0.00	328.0	328.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	22.00	0.00	328.0	328.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	21.00	0.00	328.0	328.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	20.00	0.00	328.0	328.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-9.06	48.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	12.50	-24.07	58.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	10.83	2.94	48.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	26.54	-32.88	153.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	19.00	0.00	238.0	238.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**251**	**251**

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	21.12	33.01	12.84	7.81	8.60	13.76	1.60e+6	60.00	57.00	39.50	69,781	**696.58**	**9.62**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC26MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC26MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 02/05/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC26MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC26MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC26MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
0 MIDDLE ROAD		N/A	10/64			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 0 MIDDLE ROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

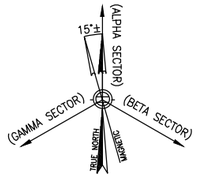
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

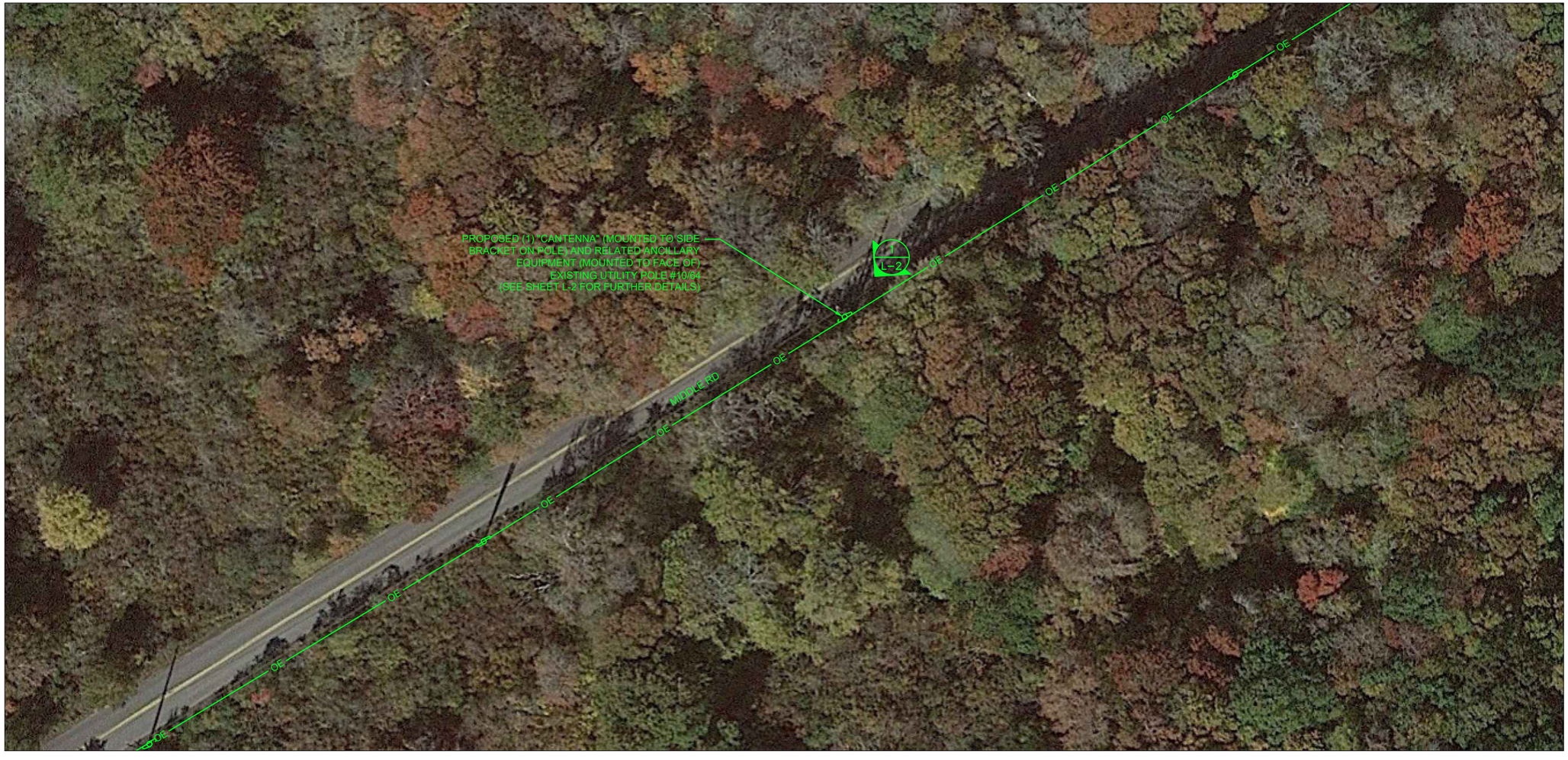
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC26_MA

CLUSTER: CHILMARK

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #10/64
N 41.369240° (41°-22'-09.26")
W -70.708844° (70°-42'-31.84")
APPROXIMATE GROUND ELEVATION 111.50'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

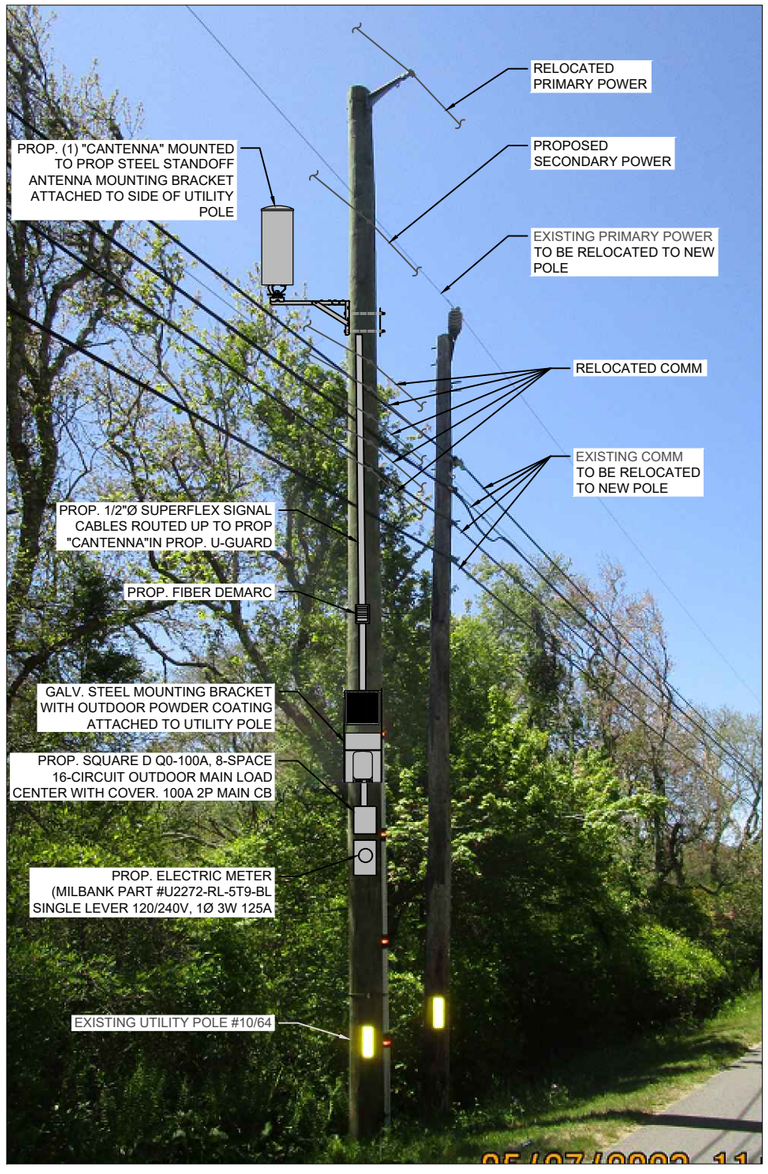
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23

GENERAL NOTES:

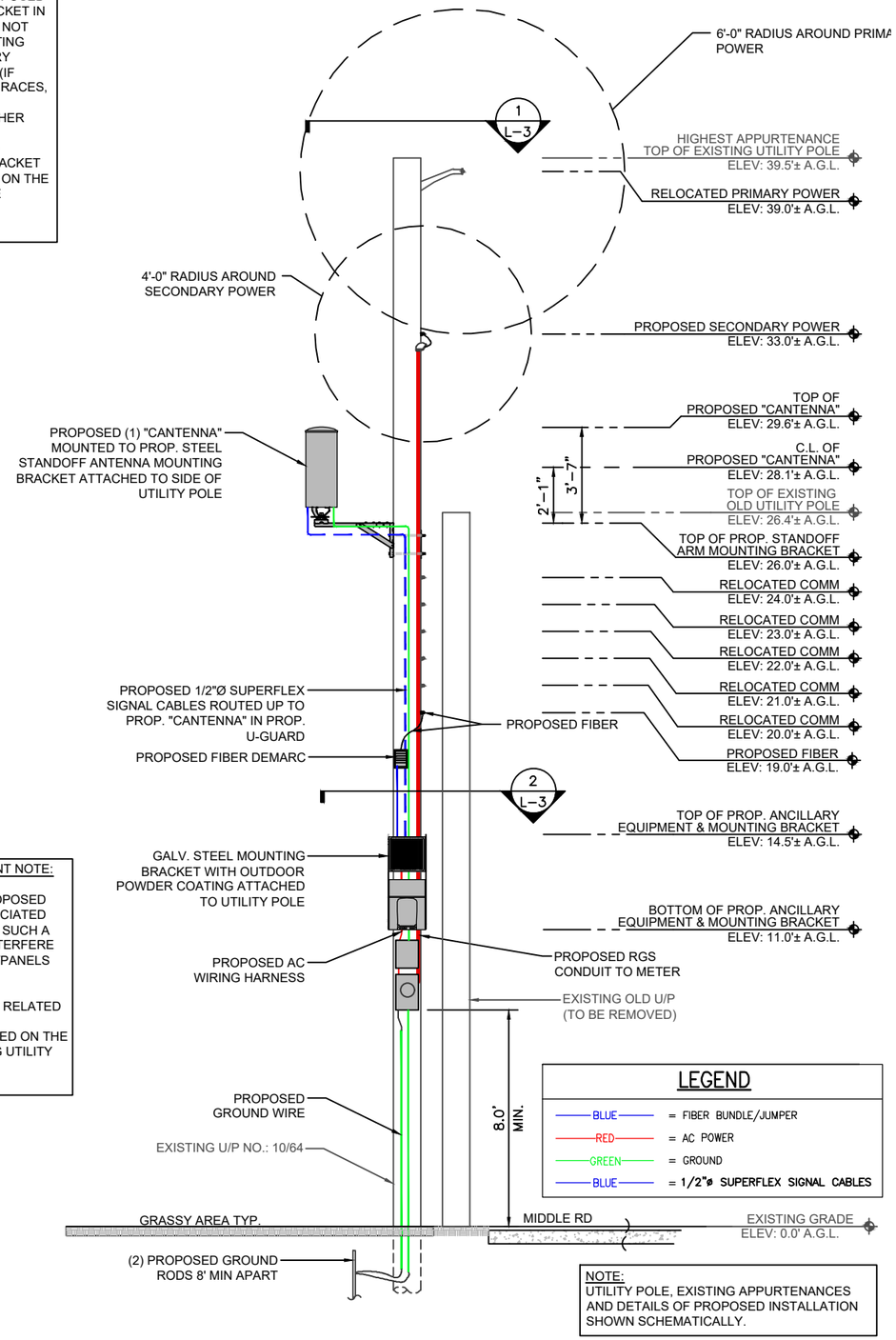
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE # 10/64 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 10/64 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC26_MA

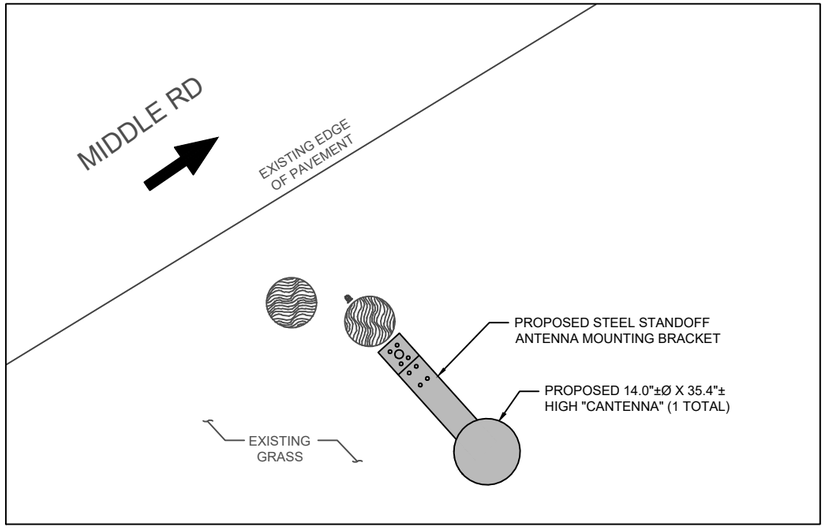
UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

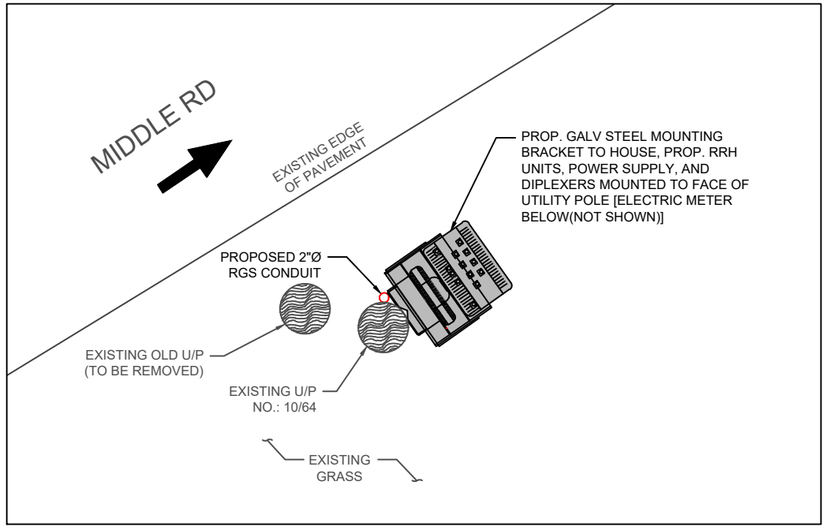
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN 1 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

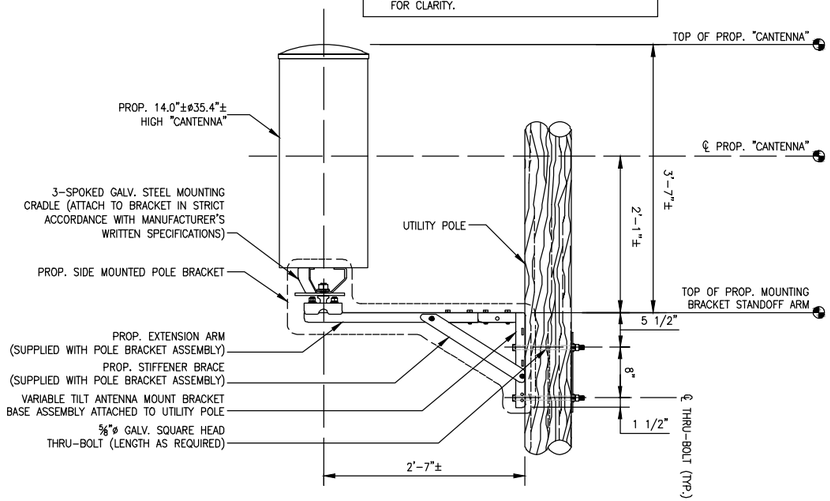
ANCILLARY EQUIPMENT ORIENTATION PLAN 2 L-3

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

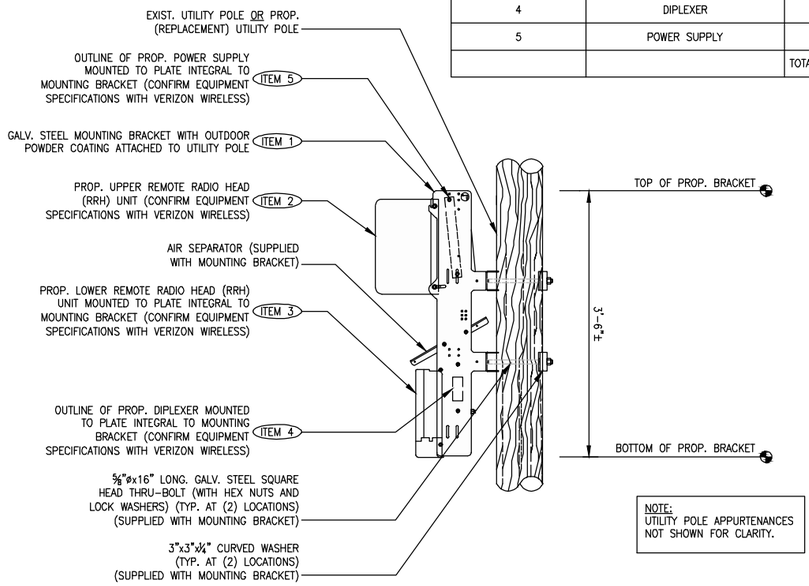
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL 3 L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL 4 L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

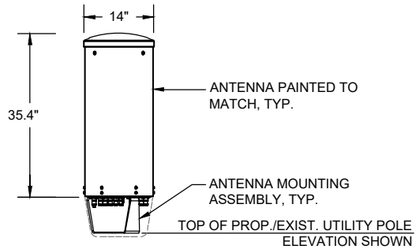
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

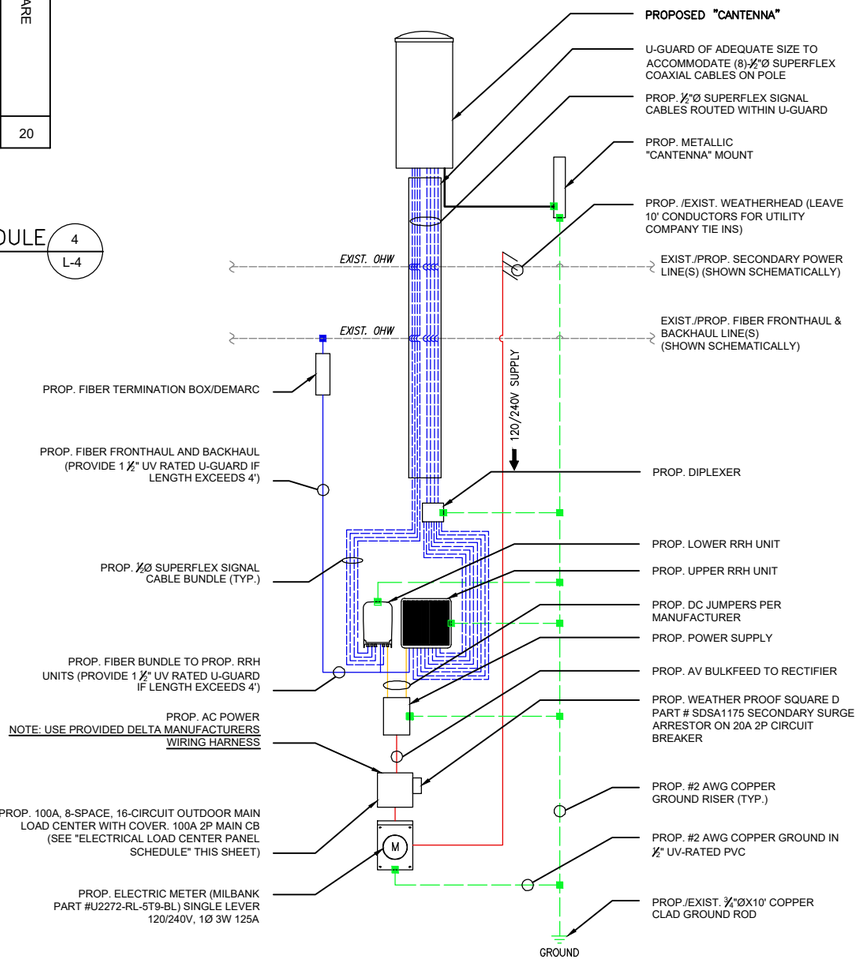
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/21/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC26_MA

UTILITY POLE #10/64
0 MIDDLE ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: TG	5000930978
	CHECKED BY: SB	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17088020	06/21/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

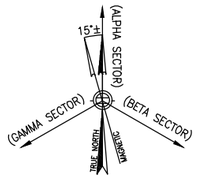
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125079
Customer Application Number	ChilmarkSC26MA
State of	MA
Municipality	CHILMARK

Type of Attachment	**Number of Attachments**	**Billing Description**
Anchor	0	
Antenna	1	MA CAE-ANTENNA-JO
Cable/ADSS	0	
Cable/Strand	0	
Decorative	0	
Drop	0	
ERUV	0	
Misc	0	
Overlash	0	
Power supply	1	MA - PS URBAN TELECOM
Riser	0	

Total Attachments	2
Total Attachments Billable	2
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/21/2023
Date	12/21/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

Project Location - Chilmark SC 27, near 51 Basin Road, Chilmark, MA



SITE NAME: CHILMARK_SC27_MA

CLUSTER: CHILMARK

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

PRESIDING POWER COMPANY
EVERSOURCE



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #6/8
N 41.354096 ° (41°–21'–14.75")
W –70.765991 ° (70°–45'–57.57")
APPROXIMATE GROUND ELEVATION 5.0'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

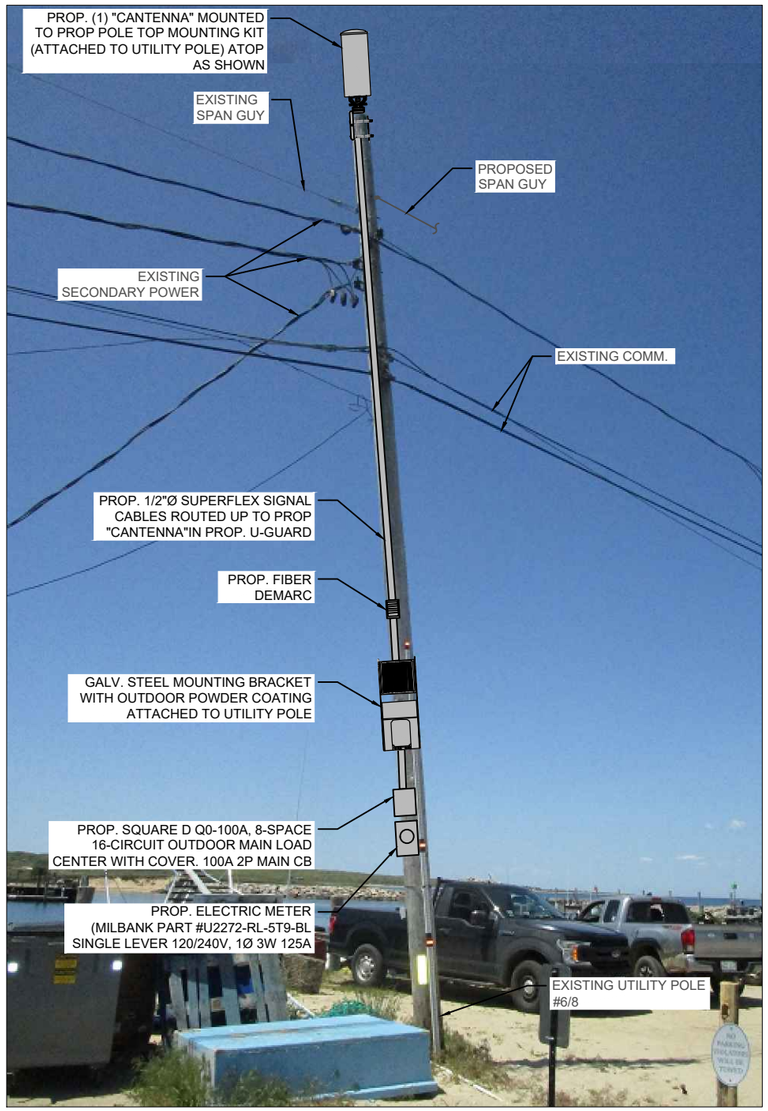
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

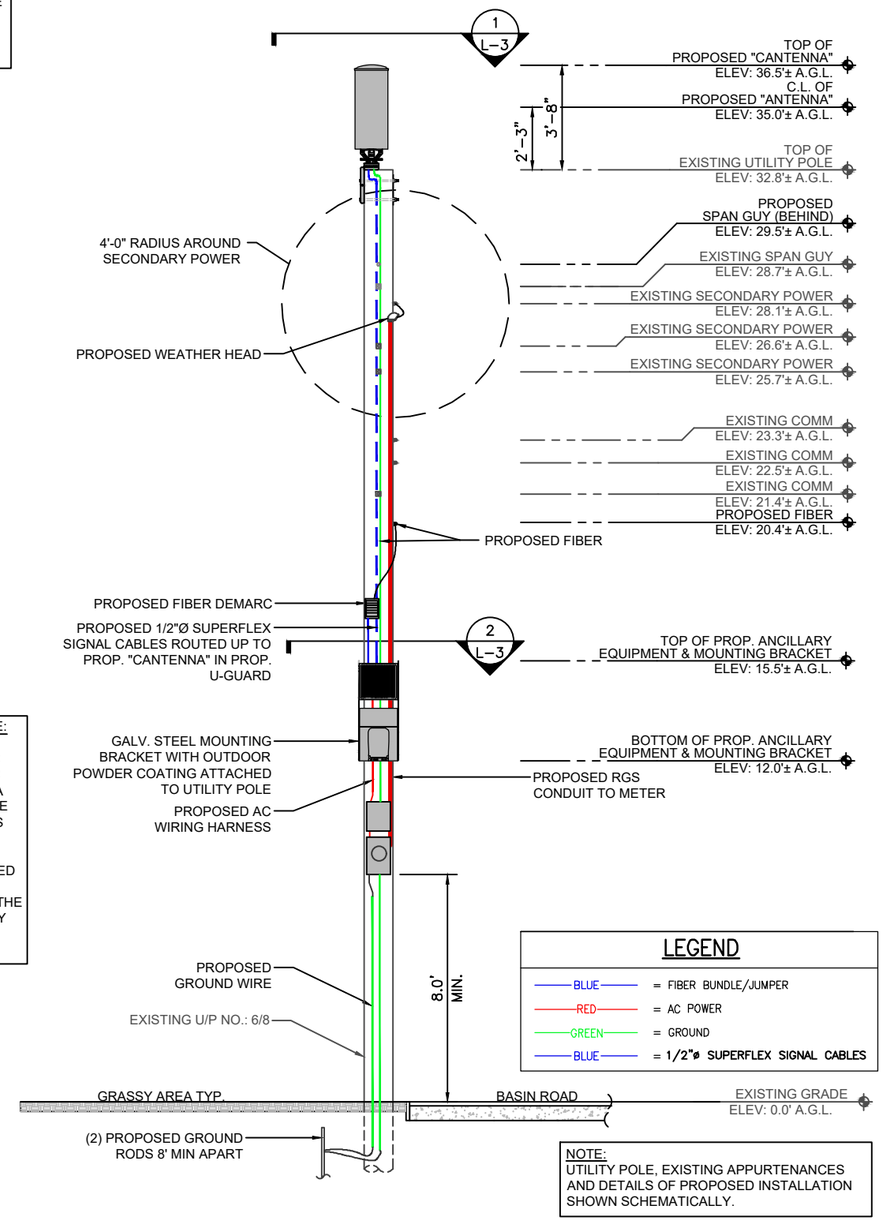


UTILITY POLE # 6/8 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 6/8 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

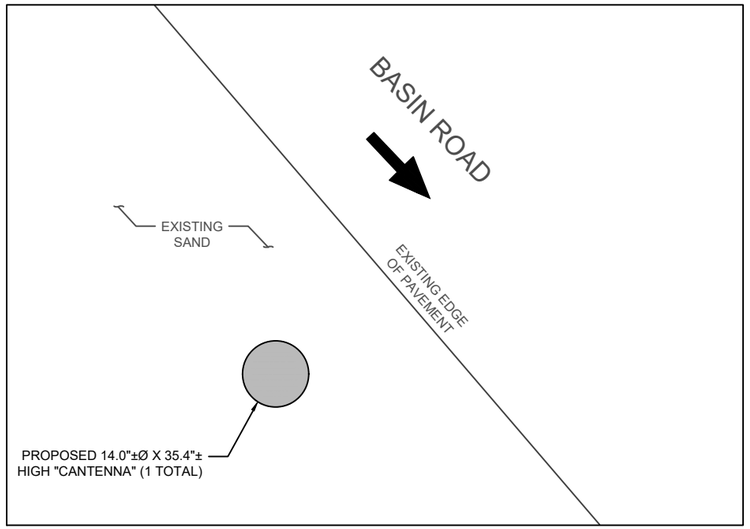
SITE NAME:
CHILMARK_SC27_MA
UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

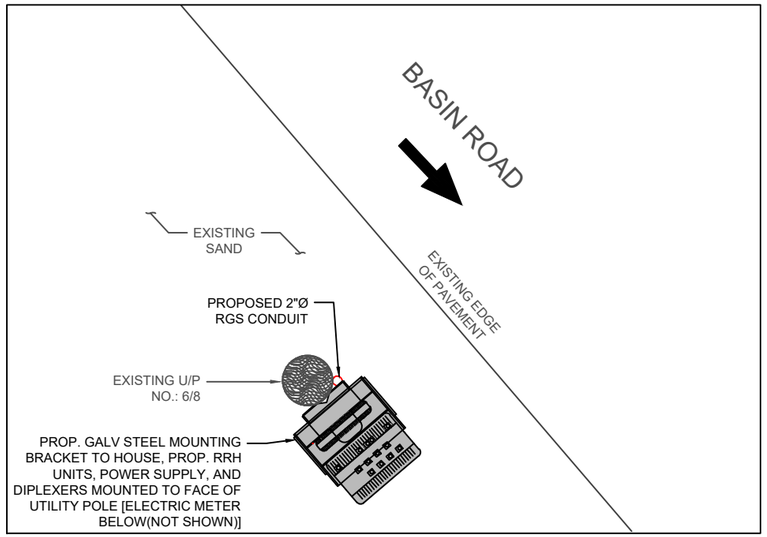
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN (1 / L-3)

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

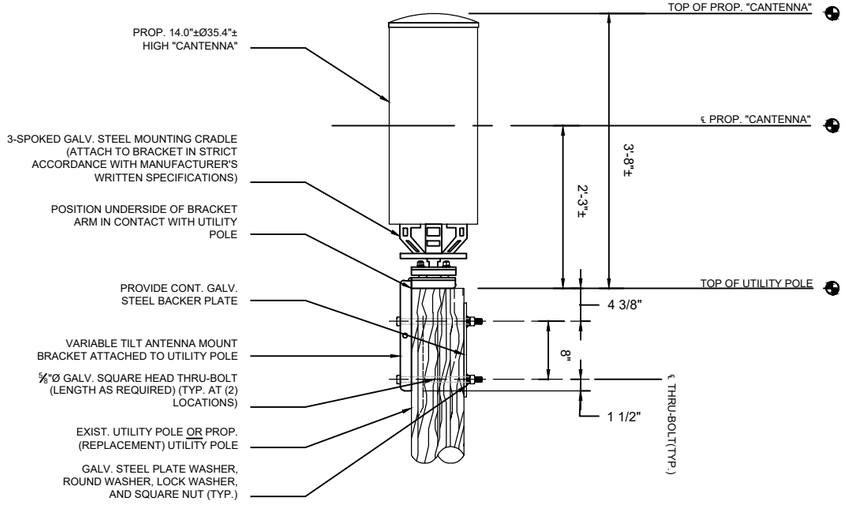
ANCILLARY EQUIPMENT ORIENTATION PLAN (2 / L-3)

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

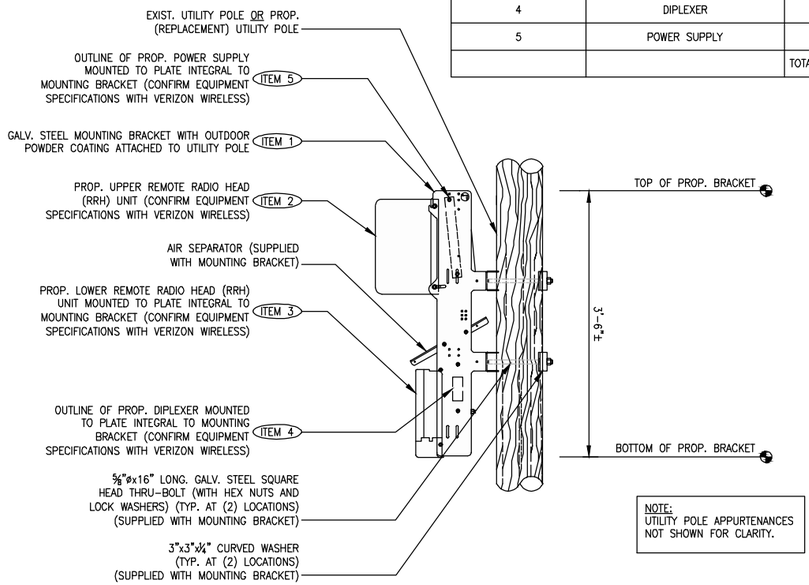
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL (3 / L-3)

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL (4 / L-3)

SCALE: N.T.S.

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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:

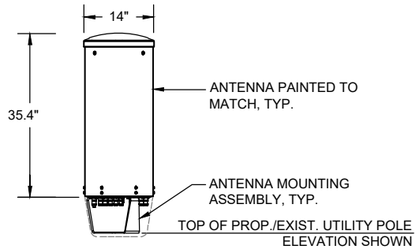
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

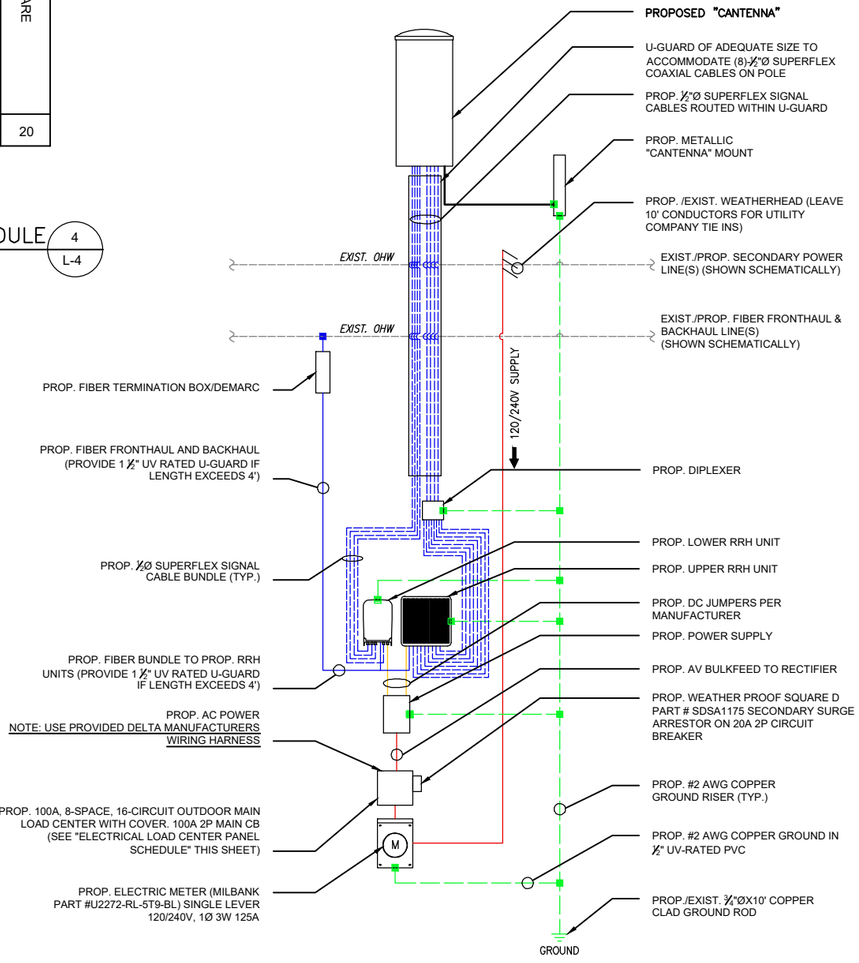
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

August 1, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC27_MA
FUZE Project ID: 17087876
MDG Location ID: 5000930969
Site Address: 51 Basin Road
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line
(1) Span Guy

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**67.5**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
32.8'	40/	-	-	-	Yes

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

Recommendations:

Centerline Communications recommends the following changes to the existing conditions in order for this analysis to be considered valid:

- Install a new span guy at 29.5'. The new span guy to match the existing span guy and should be running in the opposite direction of the existing span guy.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

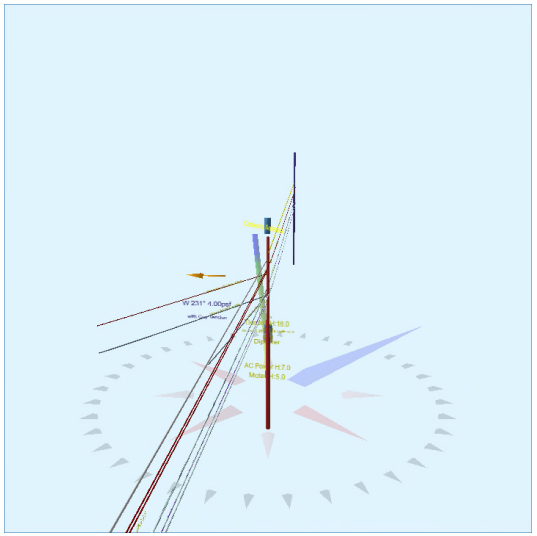
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**6/8**	Pole Length / Class:	**40 / 4**	Code:	**NESC**	Structure Type:	**Guyed Tangent**
By	**AP**	Species:	**OTHER**	NESC Rule:	**Rule 250B**	Status	**Guy Wires Adequate**
Checked By	**DC**	Setting Depth (ft):	**7.2**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**33.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.30**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**67.5**	0.0	230.5
Groundline	**67.5**	0.0	230.5
Vertical	**1.5**	19.2	51.5

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**43,179**	212.5	230.5
Groundline	**43,179**	212.5	230.5
GL Allowable	**64,479**		

Guy System Component Summary				**Load From Worst Wind Angle on Pole**		**Individual Maximum Load With Overload Applied**	
Description	**Lead Length (ft)**	**Lead Angle (deg)**	**Height (ft)**	**Nominal Capacity (%)**	**Wind Angle (deg)**	**Max* Load Capacity (%)**	**Wind Angle (deg)**
▸ Anchor	125.0	143.0		**0.0**	230.5	**0.0**	0.0
• EHS 3/8 (Span/Head)			28.7	**0.0**	230.5	**0.0**	0.0
▸ Anchor	106.0	320.0		**7.7**	230.5	**9.6**	130.0
• EHS 3/8 (Span/Head)			29.5	**11.2**	230.5	**13.8**	130.0
			System Capacity Summary:	**Adequate**		**Adequate**	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 212.5°

	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	696	33.8	**18,227**	42.2	**28.3**	**1,932**	294	3	**1,936**	**28.5**
Comms	1,439	69.8	**30,730**	71.2	**47.7**	**3,258**	931	11	**3,268**	**48.1**
GuyBraces	-377	-18.3	**-11,091**	-25.7	**-17.2**	**-1,176**	94	1	**-1,175**	**-17.3**
GenericEquipments	56	2.7	**1,209**	2.8	**1.9**	**128**	370	4	**132**	**1.9**
Pole	156	7.6	**2,620**	6.1	**4.1**	**278**	1,531	18	**295**	**4.3**
Crossarms	89	4.3	**1,446**	3.4	**2.2**	**153**	124	1	**155**	**2.3**
Insulators	2	0.1	**38**	0.1	**0.1**	**4**	97	1	**5**	**0.1**
Pole Load	2,061	100.0	**43,179**	100.0	**67.0**	**4,577**	3,442	40	**4,617**	**67.9**
Pole Reserve Capacity			**21,300**		**33.0**	**2,223**			**2,183**	**32.1**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 212.5°

	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 (%)
Existing	1,750	84.9	**41,523**	96.2	**64.4**	**4,402**	1,172	14	**4,415**	**64.9**
Vzw	578	28.1	**11,477**	26.6	**17.8**	**1,217**	695	8	**1,225**	**18.0**
Prposed	-424	-20.6	**-12,440**	-28.8	**-19.3**	**-1,319**	43	0	**-1,318**	**-19.4**
Pole	156	7.6	**2,620**	6.1	**4.1**	**278**	1,531	18	**295**	**4.3**
Proposed	0	0.0	**0**	0.0	**0.0**	**0**	0	0	**0**	**0.0**
Totals:	2,061	100.0	**43,179**	100.0	**67.0**	**4,577**	3,442	40	**4,617**	**67.9**

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)
Secondary	TRIPLEX 6 AWG	Existing	28.10	6.12	0.5800	1.59	0.113	125.0	143.0	125.0	357	3,608	-36	1,199	4,771
Secondary	TRIPLEX 6 AWG	Existing	28.10	6.12	0.5800	1.31	0.113	106.0	320.0	106.0	357	-3,097	-30	1,036	-2,090
Secondary	TRIPLEX 6 AWG	Existing	26.60	6.20	0.5800	1.59	0.113	125.0	143.0	125.0	357	3,415	13	1,135	4,564
Secondary	TRIPLEX 6 AWG	Existing	25.70	6.26	0.5800	0.42	0.113	38.0	176.0	38.0	333	7,075	9	173	7,257
											Totals:	**11,001**	**-43**	**3,544**	**14,502**

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	1/4" EHS	Existing	23.30	6.40	0.2500	1.73	0.121	125.0	143.0	125.0	800	6,704	8	875	7,587
Telco	26 GA 50 PR (0.58)	Existing	23.27	6.40	0.5800		0.180	125.0	143.0	125.0			10	245	256
Telco	26 GA 50 PR (0.58)	Existing	23.27	6.40	0.5800		0.180	125.0	143.0	125.0			8	245	253
Overlashed Bundle	1/4" EHS	Existing	23.30	6.40	0.2500	1.29	0.121	106.0	320.0	106.0	800	-5,754	-6	756	-5,004
Telco	26 GA 50 PR (0.58)	Existing	23.27	6.40	0.5800		0.180	106.0	320.0	106.0			-6	212	206
Telco	26 GA 50 PR (0.58)	Existing	23.27	6.40	0.5800		0.180	106.0	320.0	106.0			-8	212	204
Overlashed Bundle	10M	Existing	22.50	6.44	0.3060	0.97	0.165	125.0	143.0	125.0	2,000	16,183	-28	870	17,025
CATV	CATV .50	Existing	22.47	6.44	0.5700		0.600	125.0	143.0	125.0			-49	262	213
Overlashed Bundle	10M	Existing	22.50	6.44	0.3060	0.70	0.165	106.0	320.0	106.0	2,000	-13,891	-24	752	-13,163
CATV	CATV .50	Existing	22.47	6.44	0.5700		0.600	106.0	320.0	106.0			-42	226	185
Telco	TELE 1.0	Existing	21.40	6.51	1.0000	0.03	0.400	38.0	176.0	38.0	333	5,891	17	182	6,090
Telco	TELE 1.0	Existing	21.40	6.51	1.0000	0.03	0.400	34.0	149.0	34.0	333	3,267	15	298	3,579
Overlashed Bundle	1/4" EHS	Vzw	20.40	6.56	0.2500	1.40	0.121	125.0	143.0	125.0	800	5,869	11	839	6,719
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	20.36	6.56	0.7560		0.208	125.0	143.0	125.0			12	287	299
											Totals:	**18,270**	**-81**	**6,261**	**24,450**

GenericEquipment		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	RRU	Vzw	14.83	12.97	140.0	0.0	102.50	17.30	11.50	--	17.30	38	157	195
Box	RRU	Vzw	13.17	9.63	140.0	0.0	21.40	13.90	4.80	--	9.80	5	53	58
Box	Diplexer	Vzw	12.17	8.84	140.0	0.0	7.60	4.80	3.30	--	7.90	3	12	15
Box	AC Power	Vzw	7.00	6.98	143.0	0.0	9.93	12.65	4.27	--	8.88	3	23	26
Box	Meter	Vzw	5.00	7.36	143.0	0.0	16.25	18.50	4.80	--	10.00	5	26	32
Box	Demarc	Vzw	16.00	5.67	143.0	0.0	2.00	9.60	2.70	--	7.00	0	25	25
Cylinder	Cantenna Antenna	Vzw	34.97	1.57	0.0	0.0	35.00	35.40	--	14.00	--	6	605	611
											Totals:	**61**	**901**	**962**

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	Bracket	Vzw	13.50	-7.28	320.0	320.0	28.00	42.00	0.50	21.00	8	15	22
Normal	Riser	Vzw	16.40	5.80	315.0	315.0	37.40	393.60	3.00	3.00	-6	1,134	1,128
										Totals:	**2**	**1,148**	**1,150**

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)
Spool	Spool 3"	Existing	28.10	0.00	51.0	51.0	2.00	3.00	3.19	0	10	10
Spool	Spool 3"	Existing	26.60	0.00	143.0	143.0	2.00	3.00	3.19	0	9	9
Spool	Spool 3"	Existing	25.70	0.00	176.0	176.0	2.00	3.00	3.19	0	9	9
Bolt	Single Bolt	Existing	23.30	0.00	143.0	143.0	5.00	3.00	0.10	0	0	0

Bolt	Single Bolt	Existing	23.30	0.00	320.0	320.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	22.50	0.00	51.0	51.0	5.00	3.00	0.10	0	0	0
J-Hook	J-Hook	Existing	21.40	0.00	176.0	176.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	13.50	-9.06	132.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.83	2.94	132.7	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	13.50	-24.07	140.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	33.38	0.00	180.0	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	20.40	0.00	143.0	143.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**30**	**30**

Guy Wire and Brace		**Owner**	**Attach Height (ft)**	**End Height (ft)**	**Lead/Span Length (ft)**	**Wire Diameter (in)**	**Percent Solid (%)**	**Lead Angle (deg)**	**Incline Angle (deg)**	**Wire Weight (lbs/ft)**	**Rest Length (ft)**	**Stretch Length (in)**
EHS 3/8	Span/Head	Existing	28.70	28.70	125.00	0.375	75.00	143.0	0.0	0.273	122.41	0.00
EHS 3/8	Span/Head	Prposed	29.50	29.50	106.00	0.375	75.00	320.0	0.0	0.273	103.45	1.01

Guy Wire and Brace (Loads and Reactions)		**Elastic Modulus (psi)**	**Rated Tensile Strength (lbs)**	**Guy Strength Factor**	**Allowable Tension (lbs)**	**Initial Tension (lbs)**	**Loaded Tension*[2] (lbs)**	**Maximum Tension[2] (lbs)**	**Applied Tension[3] (lbs)**	**Vertical Load (lbs)**	**Shear Load In Guy Dir (lbs)**	**Shear Load At Report Angle (lbs)**	**Proportional Moment at GL[3] (ft-lb)**
EHS 3/8	Span/Head	2.30e+7	15,400	0.90	13,860	700	0	0	0	0	0	0	1,350
EHS 3/8	Span/Head	2.30e+7	15,400	0.90	13,860	700	1,912	1,738	1,547	0	1,547	-464	-12,440
									Totals:	**0**	**1,547**	**-464**	**-11,091**

Anchor/Rod Load Summary	**Owner**	**Rod Length AGL (in)**	**Lead Length (ft)**	**Lead Angle (deg)**	**Strength of Assembly (lbs)**	**Anchor/Rod Strength Factor**	**Allowable Load (lbs)**	**Max Load[2] (lbs)**	**Load at Pole MCU[3] (lbs)**	**Max Required Capacity[2] (%)**
Anchor	Existing	30.00	125.00	143.0	20,000	1.00	20,000	0	0	0.0
Anchor	Proposed	30.00	106.00	320.0	20,000	1.00	20,000	1,912	1,547	9.6

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**
0.71	19.17	33.19	9.76	3.69	6.69	10.51	1.60e+6	60.00	57.00	32.80	226,401	**2294.45**	**66.67**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC27MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

_____

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC27MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

_____
(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 6/11/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC27MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC27MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC27MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
51 BASIN ROAD		N/A	6/8			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/24 ***WO Received Date:*** _____

Service Address: Street: 51 BASIN ROAD Suite: ____ Town Chilmark Zip: 02535

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

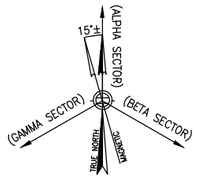
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

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: _____



SITE NAME: CHILMARK_SC27_MA

CLUSTER: CHILMARK

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

PRESIDING POWER COMPANY
EVERSOURCE



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #6/8
N 41.354096 ° (41°–21'–14.75")
W –70.765991 ° (70°–45'–57.57")
APPROXIMATE GROUND ELEVATION 5.0'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

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" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

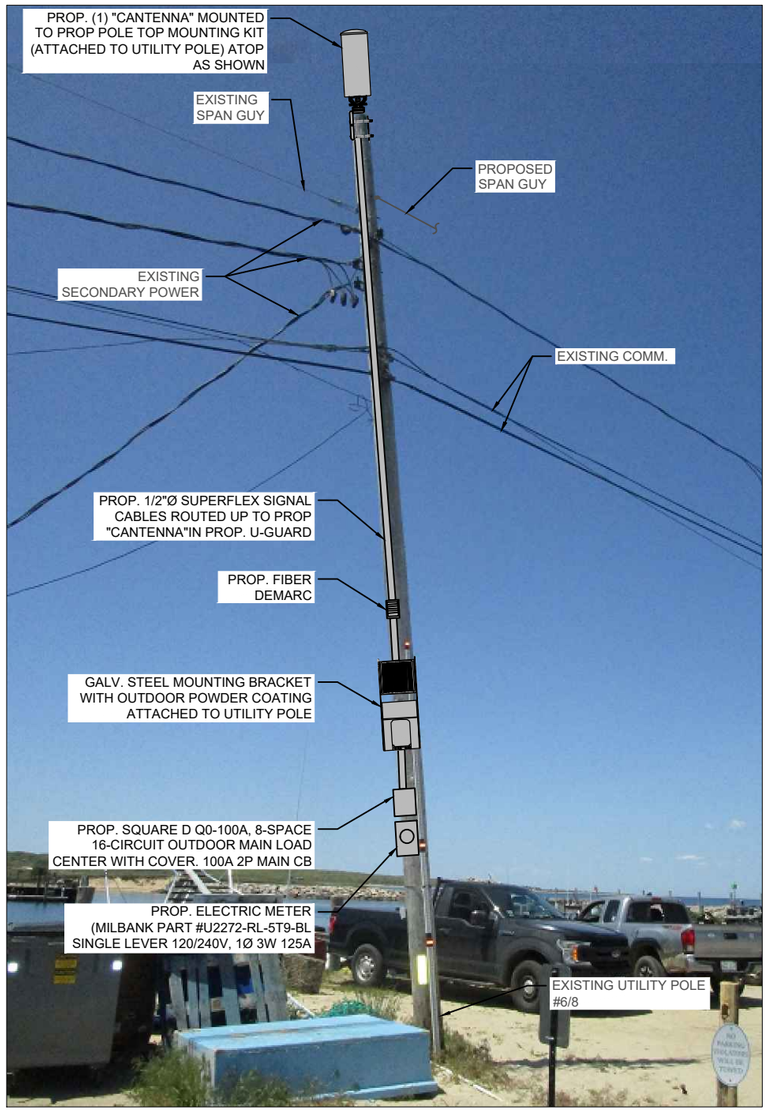
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23

GENERAL NOTES:

1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

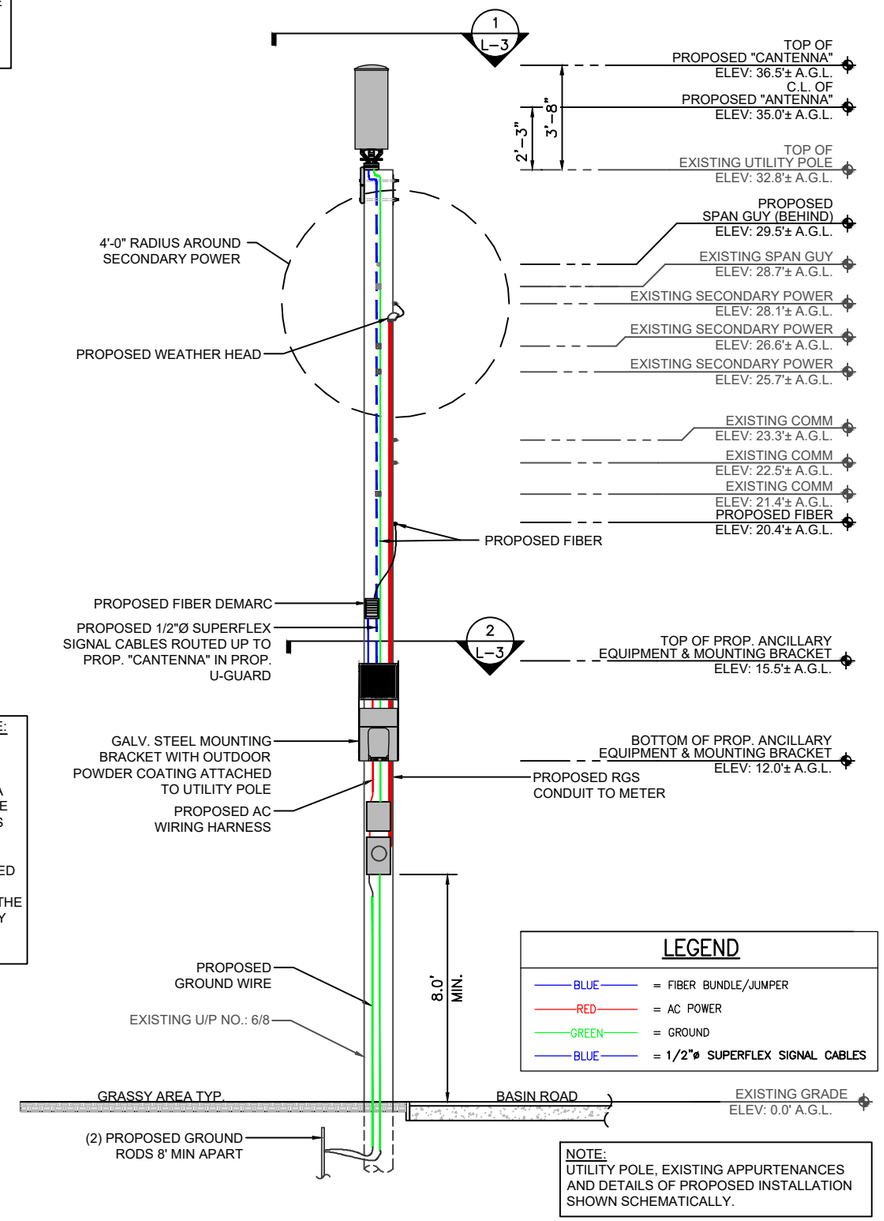


UTILITY POLE # 6/8 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

N.T.S.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 6/8 ELEVATION (PROPOSED CONDITIONS)

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 8'-0"

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/24/23

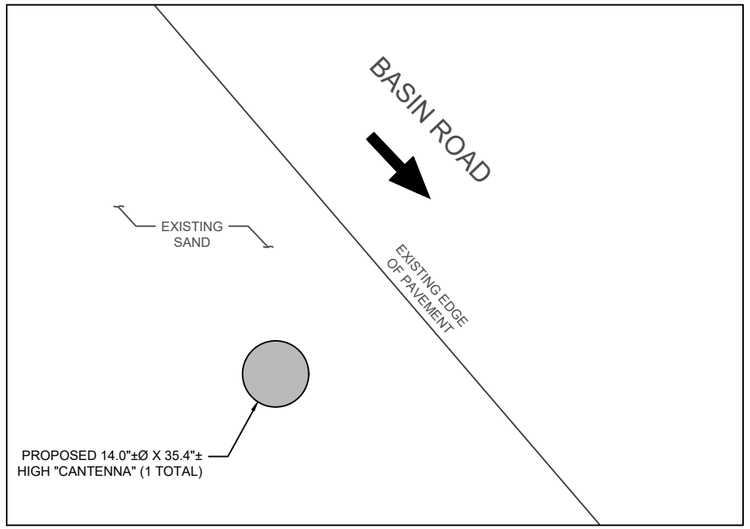
SITE NAME:
CHILMARK_SC27_MA
UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23



NOTE:

REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

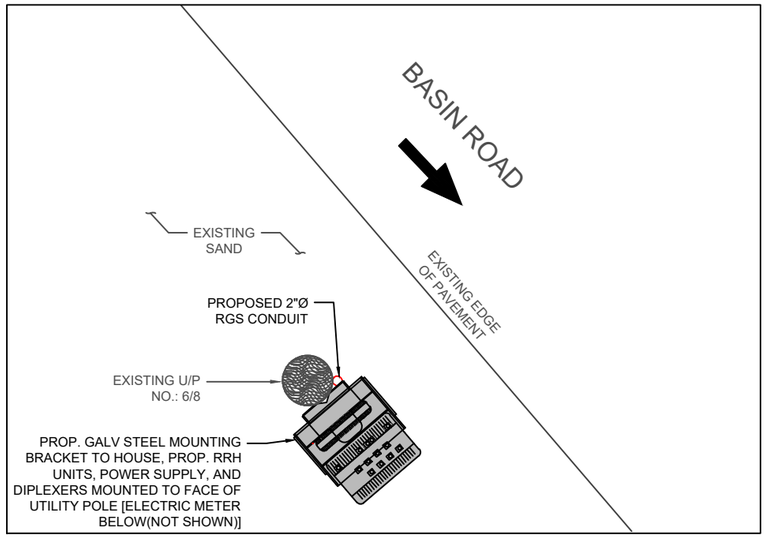
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN (1 / L-3)

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

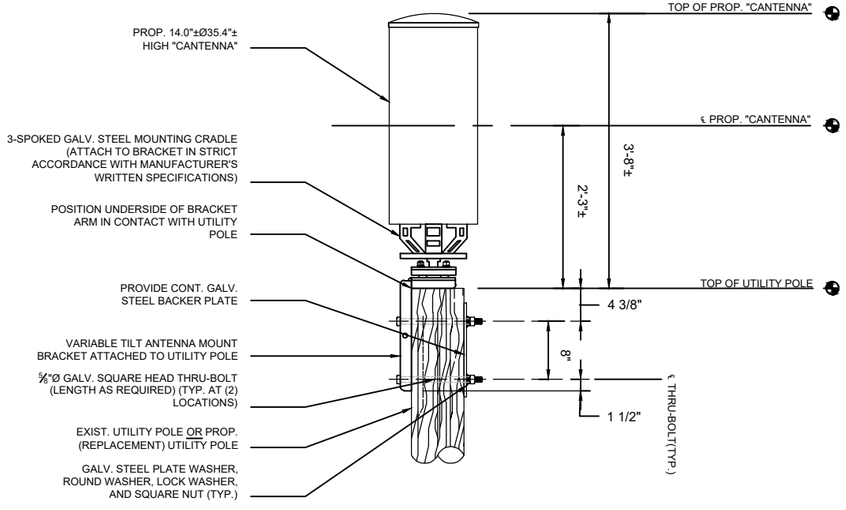
ANCILLARY EQUIPMENT ORIENTATION PLAN (2 / L-3)

SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 4'-0"

NORTH

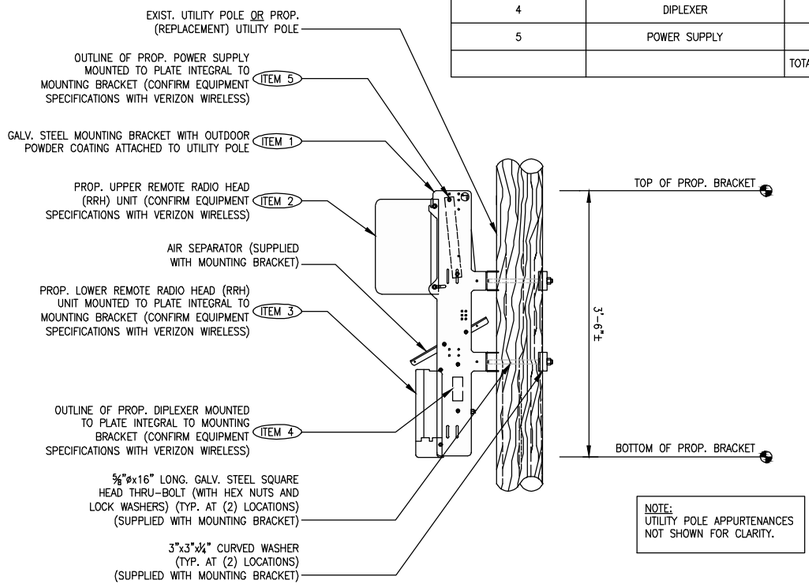
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL (3 / L-3)

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL (4 / L-3)

SCALE: N.T.S.

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PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:

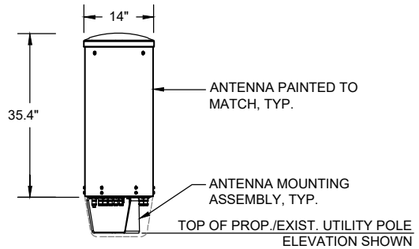
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DM	5000930969
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

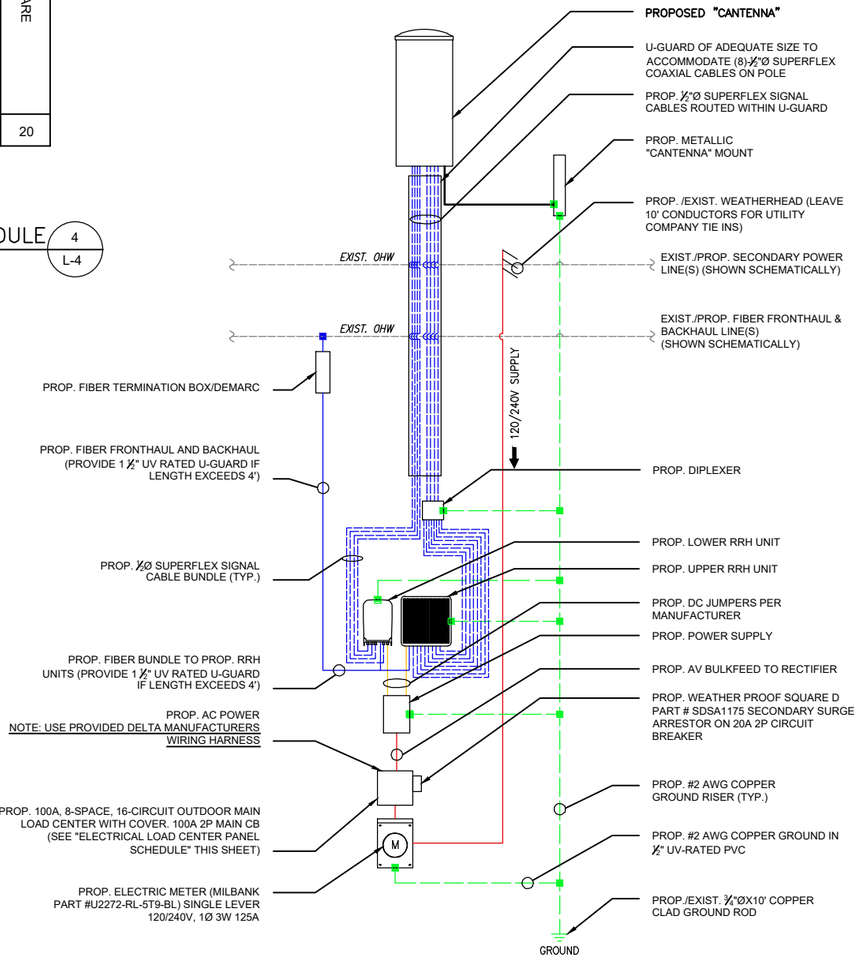
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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REVISIONS

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0	ISSUED FOR REVIEW	06/12/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC27_MA

UTILITY POLE #6/8
51 BASIN ROAD
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
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	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087876	06/12/23	05/26/23

APPLICATION AND POLE ATTACHMENT LICENSE - FORM 1

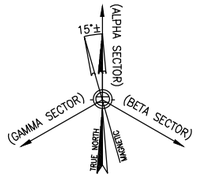
Licensee	VERIZON WIRELESS
Agreement No.	AMA140012
Pole Attachment License Number	AMA1400125080
Customer Application Number	ChilmarkSC27MA
State of	MA
Municipality	CHILMARK

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

Total Attachments	4
Total Attachments Billable	4
Total Attachments - No Bill	0

Licensor's Name (Print)	MATT GOGUEN
Signature	Approved by MATT GOGUEN on 12/20/2023
Date	12/20/2023
Title	SUPV-NTWK ENG&OPS
Phone	857/415-5150

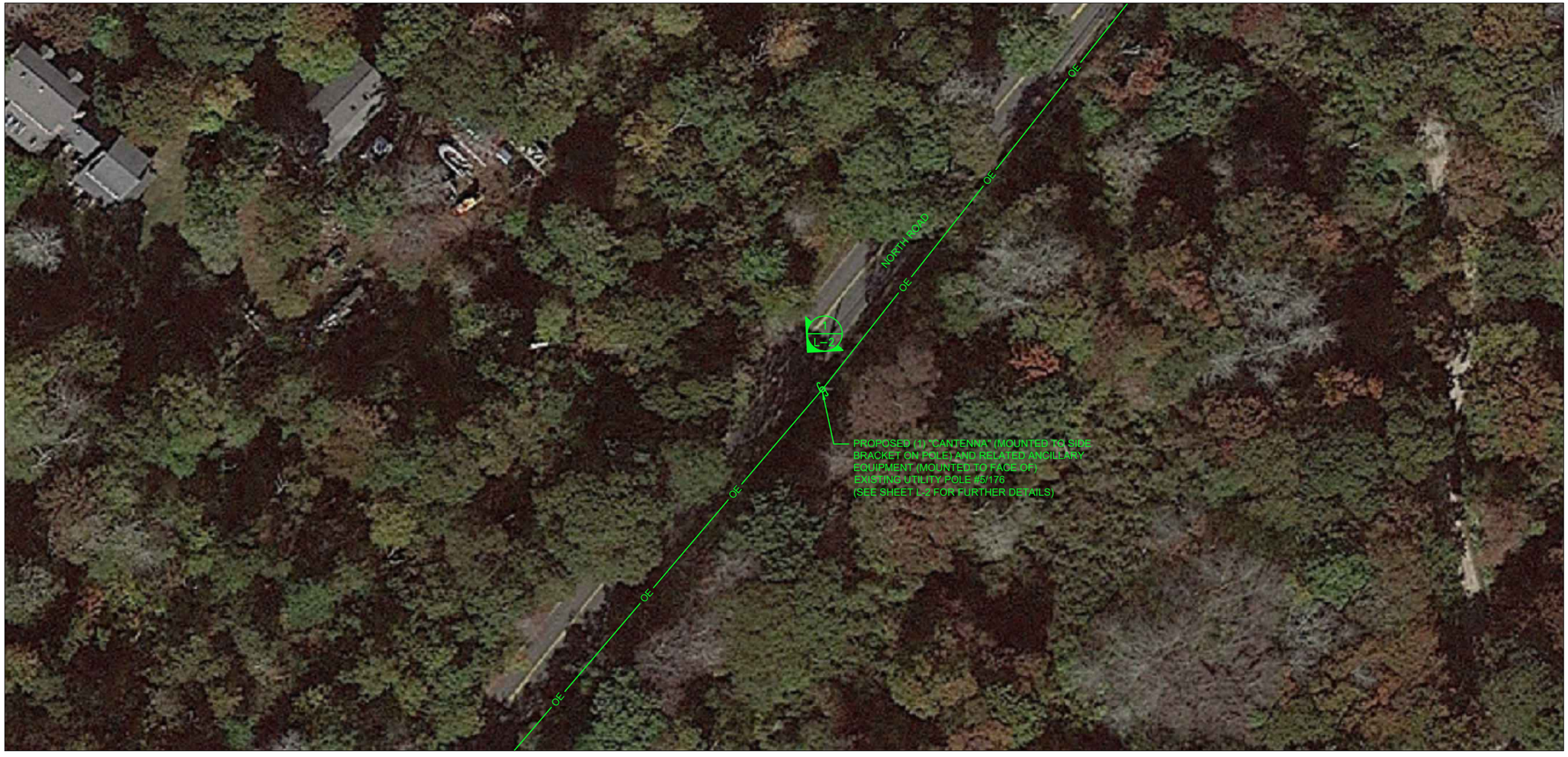
Project Location - Chilmark SC 28, North Road near 5 North Slope Lane, Chilmark, MA



SITE NAME: CHILMARK_SC28_MA

CLUSTER: CHILMARK

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/176
N 41.365698° (41° 21' 56.51")
W -70.739267° (-70° 44' 21.36")
APPROXIMATE GROUND ELEVATION 161.5'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

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REVISIONS

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0	ISSUED FOR REVIEW	07/07/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

DRAWING NO:
L-1

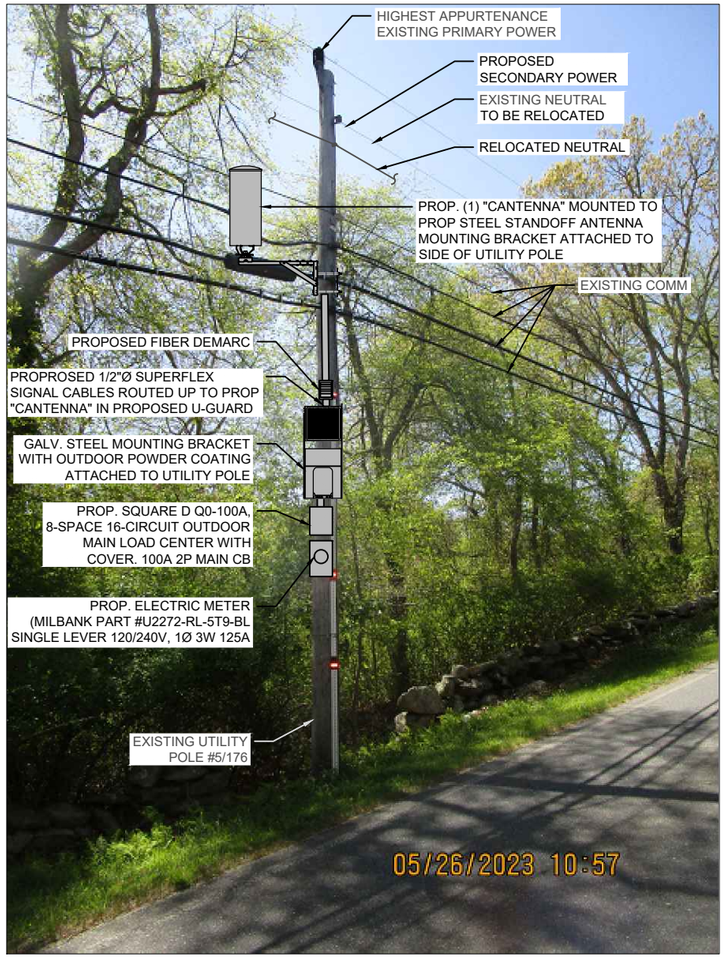
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23

GENERAL NOTES:

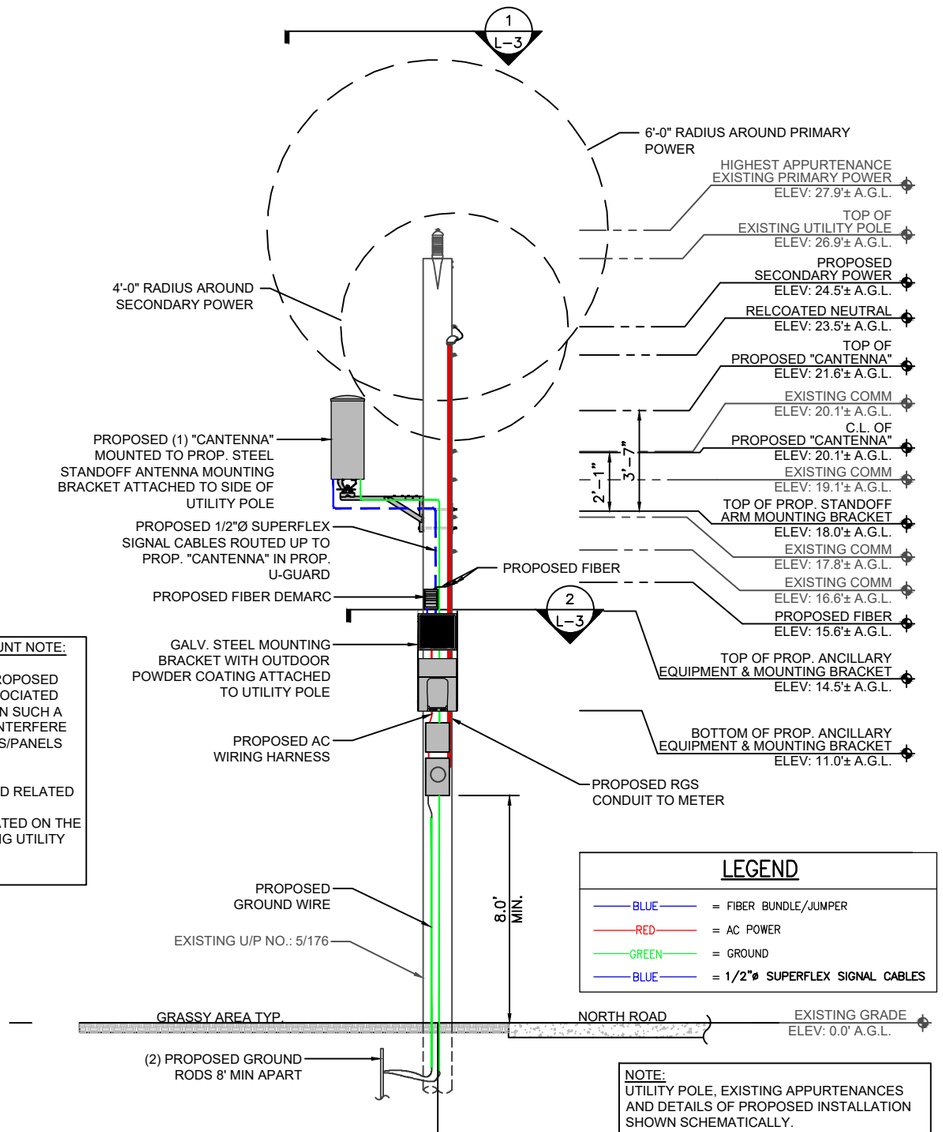
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ANTENNA AND MOUNT NOTE:
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UTILITY POLE # 5/176 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/176 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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SITE NAME:
CHILMARK_SC28_MA

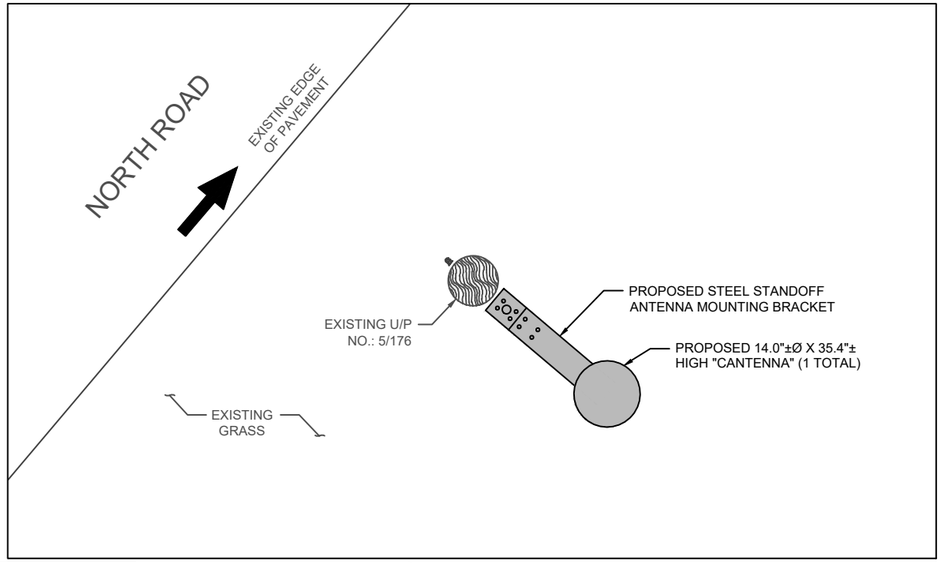
UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23



NOTE:

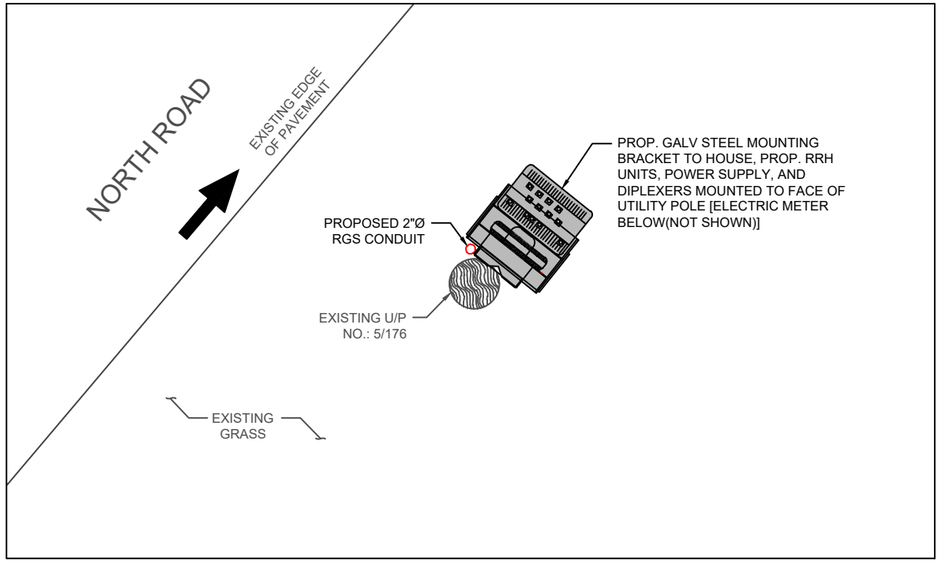
REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN — 1 / L-3

SCALE: 3/8" = 1'

0 1'–4" 2'–8" 4'–0"



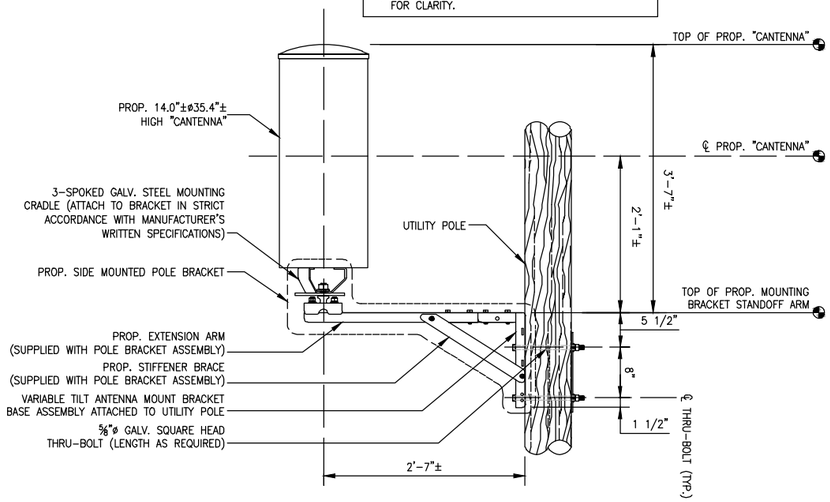
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN — 2 / L-3

SCALE: 3/8" = 1'-0"

0 1'–4" 2'–8" 4'–0"

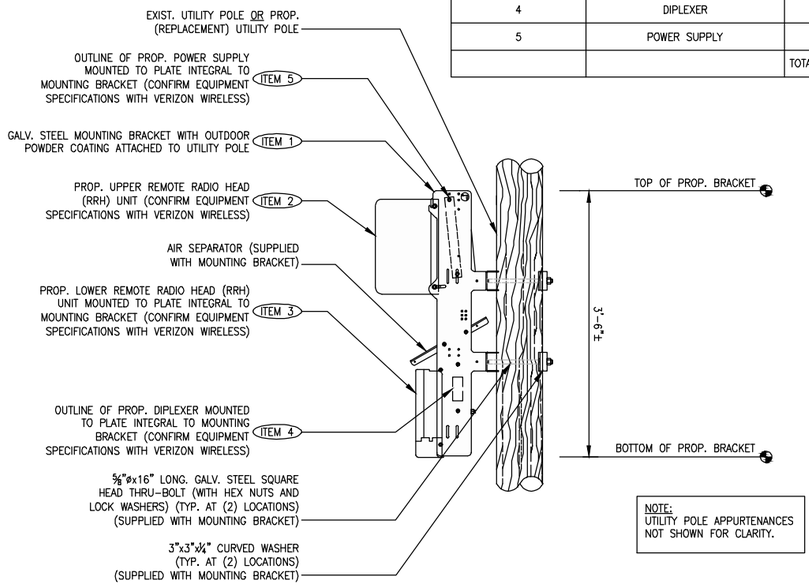
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL — 3 / L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL — 4 / L-3

SCALE: N.T.S.

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/07/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

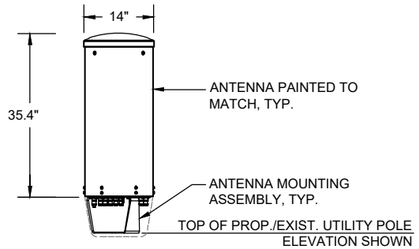
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

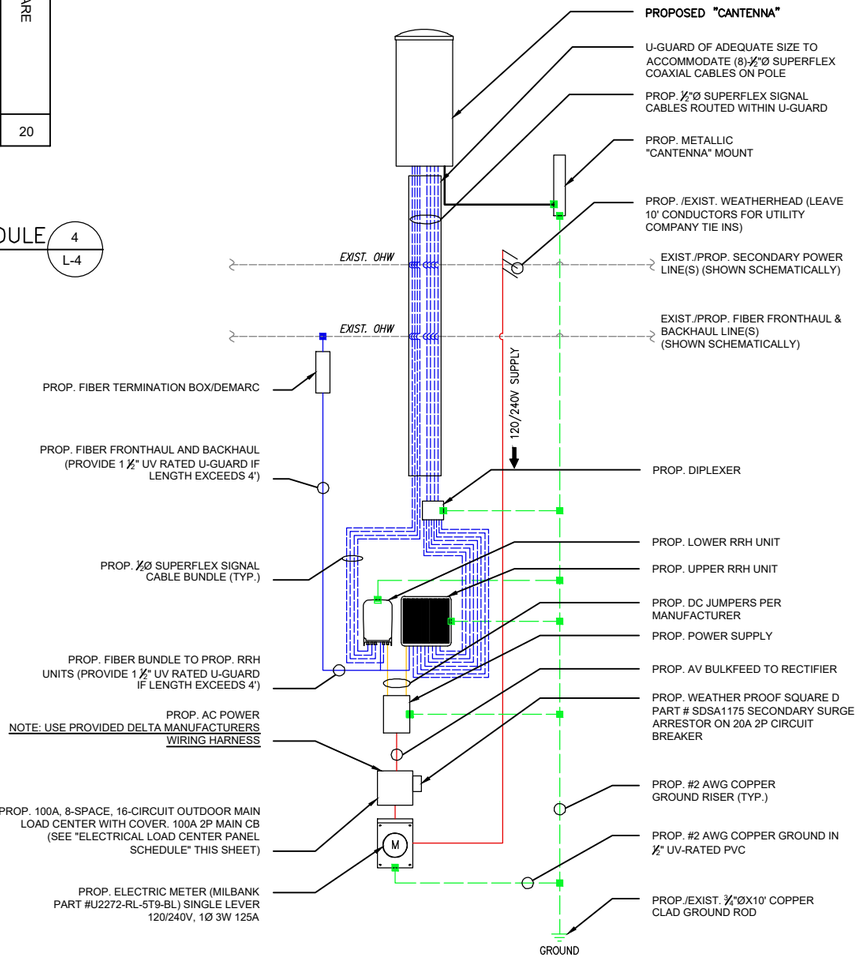
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

verizon

"Because Better Matters"

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/07/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

July 27, 2023

verizon

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Analysis Report
Site Name: CHILMARK_SC28_MA
FUZE Project ID: 17087890
MDG Location ID: 5000932267
Site Address: 5 North Slope Lane (Pole on North Road)
Chilmark, MA 02535

To Whom It May Concern:

Centerline Communications completed a structural analysis to determine the structural integrity of the utility pole at the site referenced above.

Based on our analysis, Centerline Communications has determined the existing pole stress level *to be adequate* to support the existing and proposed equipment. This analysis assumes wire type and estimates wire diameter using photos of the existing pole.

Proposed Equipment:

(1) Cantenna (35.4" H, 14.0" Ø) (Weight= 35.0 lbs.)
(1) RRU (17.3" H, 17.3" W, 11.5" D) (Weight= 102.5 lbs.)
(1) RRU (13.9" H, 9.8" W, 4.8" D) (Weight= 21.4 lbs.)
(1) Diplexer (4.8" H, 7.9" W, 3.3" D) (Weight= 7.6 lbs.)
(1) Milbank Power Meter (18.5" H, 10.0" W, 4.8" D) (Weight= 16.3 lbs.)
(1) Square D Breaker Panel (12.7" H, 8.9" W, 4.3" D) (Weight= 9.9 lbs.)
(1) Fiber Demarc (9.6" H, 7.0" W, 2.7" D) (Weight= 2.0 lbs.)
(1) Fiber Line
(1) Secondary Line

Analysis Results:	%	Result	Comments
Pole Stress Level with Existing and Proposed Equipment:	**66.3**	**PASS**	N/A

Analysis Results Based Upon the Following Pole Conditions:

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment	New Pole Height Above Grade	New Guy Wires Required
26.9'	35/4	-	-	-	No

This evaluation was conducted in accordance with the 2017 National Electric Safety Code (NESC) construction standards and MA State Building Code, 9th Edition (Amendments to the IBC 2015).

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Assumptions and Limitations:

- The utility pole and associated accessories are constructed in conformance with all applicable state and local building codes.
- The utility pole has been maintained in accordance with the manufacturer's specifications.
- The foundation/soil is acceptable.

All Equipment proposed in this report shall be installed in accordance with the latest Centerline Communications Drawings.

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

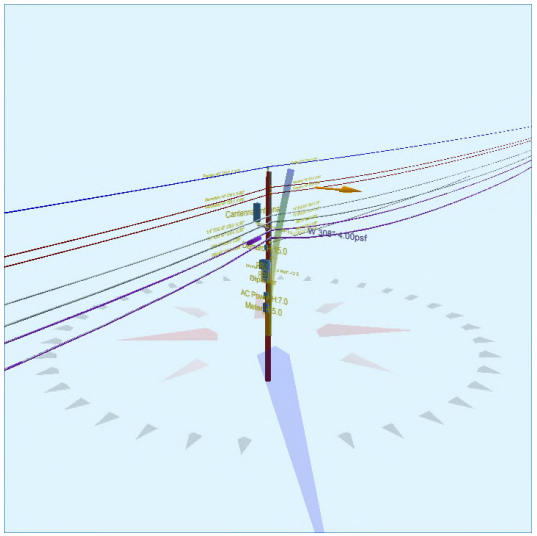
Sincerely,

Derek Creaser, PE
Director - A&E Services

CENTERLINE COMMUNICATIONS
750 West Center Street, Suite 301
West Bridgewater, MA 02379
781.713.4725

Existing Pole Results

Pole Num:	**5/176**	Pole Length / Class:	**35 / 4**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
By	**AP**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Checked By	**DC**	Setting Depth (ft):	**8.1**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**35.00**	Loading District:	**Heavy**	Transverse Wind LF:	**1.75**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**6,800**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.90**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:		**0**	Longitude:		**0**	Elevation:	**0M**





Pole Capacity Utilization (%)		**Height (ft)**	**Wind Angle (deg)**
Maximum	**66.3**	0.0	307.9
Groundline	**66.3**	0.0	307.9
Vertical	**18.7**	17.7	307.9

Pole Moments (ft-lb)		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**50,140**	295.4	307.9
Groundline	**50,140**	295.4	307.9
GL Allowable	**76,928**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 295.4°

	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	565	23.7	**15,241**	30.4	**19.8**	**1,279**	981	10	**1,289**	**19.0**
Comms	1,541	64.8	**31,062**	62.0	**40.4**	**2,607**	4,266	44	**2,651**	**39.0**
GenericEquipments	58	2.4	**565**	1.1	**0.7**	**47**	370	4	**51**	**0.8**
Pole	137	5.7	**2,017**	4.0	**2.6**	**169**	1,356	14	**183**	**2.7**
Crossarms	77	3.2	**1,178**	2.4	**1.5**	**99**	177	2	**101**	**1.5**
Insulators	3	0.1	**77**	0.2	**0.1**	**7**	106	1	**8**	**0.1**
Pole Load	2,380	100.0	**50,140**	100.0	**65.2**	**4,208**	7,256	74	**4,282**	**63.0**
Pole Reserve Capacity			**26,788**		**34.8**	**2,592**			**2,518**	**37.0**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 295.4°

	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 (%)
Existing	1,656	69.6	**36,852**	73.5	**47.9**	**3,093**	4,824	49	**3,142**	**46.2**
Proposed	203	8.5	**5,402**	10.8	**7.0**	**453**	351	4	**457**	**6.7**
Vzw	385	16.2	**5,868**	11.7	**7.6**	**493**	725	7	**500**	**7.4**
Pole	137	5.7	**2,017**	4.0	**2.6**	**169**	1,356	14	**183**	**2.7**
Totals:	2,380	100.0	**50,140**	100.0	**65.2**	**4,208**	7,256	74	**4,282**	**63.0**

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)
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	27.61	0.00	0.3550	1.73	0.115	228.0	40.0	228.0	1,065	-7,817	0	2,535	-5,282
Primary	ACSR 1 AWG 6/1 ROBIN	Existing	27.61	0.00	0.3550	1.86	0.115	238.0	219.0	238.0	1,065	7,293	0	2,659	9,952
Secondary	TRIPLEX 6 AWG	Proposed	24.50	6.04	0.5800	3.46	0.113	228.0	40.0	228.1	357	-2,324	85	2,622	383
Secondary	TRIPLEX 6 AWG	Proposed	24.50	6.04	0.5800	3.68	0.113	238.0	219.0	238.1	357	2,168	89	2,750	5,008
Secondary	TRIPLEX 6 AWG	Existing	23.50	6.12	0.5800	3.46	0.113	228.0	40.0	228.1	357	-2,229	87	2,515	372
Secondary	TRIPLEX 6 AWG	Existing	23.50	6.12	0.5800	3.68	0.113	238.0	219.0	238.1	357	2,080	90	2,638	4,808
											Totals:	**-830**	**351**	**15,720**	**15,241**

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	1/4" EHS	Existing	20.10	6.41	0.2500	3.69	0.121	228.0	40.0	228.1	800	-4,273	66	2,014	-2,193
Telco	26 GA 50 PR (0.58)	Existing	20.06	6.41	0.5800		0.180	228.0	40.0	228.1			73	651	724
Overlashed Bundle	1/4" EHS	Existing	20.10	6.41	0.2500	3.96	0.121	238.0	219.0	238.1	800	3,986	69	2,113	6,168
Telco	26 GA 50 PR (0.58)	Existing	20.06	6.41	0.5800		0.180	238.0	219.0	238.1			76	683	759
Overlashed Bundle	1/4" EHS	Existing	19.10	6.49	0.2500	5.13	0.121	228.0	40.0	228.2	800	-4,060	63	1,951	-2,046
Telco	26 GA 50 PR (0.58)	Existing	19.06	6.49	0.5800		0.180	228.0	40.0	228.2			70	662	732
Telco	26 GA 50 PR (0.58)	Existing	19.01	6.49	0.5800		0.180	228.0	40.0	228.2			70	660	730
Overlashed Bundle	1/4" EHS	Existing	19.10	6.49	0.2500	5.53	0.121	238.0	219.0	238.3	800	3,788	66	2,047	5,901
Telco	26 GA 50 PR (0.58)	Existing	19.06	6.49	0.5800		0.180	238.0	219.0	238.3			73	688	761
Telco	26 GA 50 PR (0.58)	Existing	19.01	6.49	0.5800		0.180	238.0	219.0	238.3			73	686	760
Overlashed Bundle	10M	Existing	17.80	6.60	0.3060	5.05	0.165	228.0	40.0	228.3	2,000	-9,460	95	2,137	-7,228
CATV	CATV 1.0	Existing	17.74	6.60	1.3300		1.200	228.0	40.0	228.3			218	1,181	1,400
Overlashed Bundle	10M	Existing	17.80	6.60	0.3060	5.48	0.165	238.0	219.0	238.4	2,000	8,825	99	2,242	11,166
CATV	CATV 1.0	Existing	17.74	6.60	1.3300		1.200	238.0	219.0	238.4			228	974	1,202
Overlashed Bundle	10M	Existing	16.60	6.70	0.3060	6.95	0.165	228.0	40.0	228.7	2,000	-8,822	85	1,908	-6,829
CATV	CATV 1.0	Existing	16.54	6.70	1.3300		1.200	228.0	40.0	228.7			210	781	991
CATV	CATV .50	Existing	16.46	6.70	0.5700		0.600	228.0	40.0	228.7			137	778	915
Overlashed Bundle	10M	Existing	16.60	6.70	0.3060	7.61	0.165	238.0	219.0	238.7	2,000	8,230	103	2,224	10,558
CATV	CATV 1.0	Existing	16.54	6.70	1.3300		1.200	238.0	219.0	238.7			234	1,041	1,275
CATV	CATV .50	Existing	16.42	6.70	0.5700		0.600	238.0	219.0	238.7			158	1,033	1,191
Overlashed Bundle	1/4" EHS	Vzw	15.60	6.78	0.2500	1.05	0.121	106.4	219.0	106.4	800	3,094	9	754	3,857
Telco	BELOPTIX DT144 - 144 FIBERS - DIELECTRIC (0.756)	Vzw	15.56	6.78	0.7560		0.208	106.4	219.0	106.4			10	258	268
											Totals:	**1,308**	**2,286**	**27,468**	**31,062**

GenericEquipment		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	Meter	Vzw	5.00	7.56	40.0	0.0	16.25	18.50	4.80	--	10.00	-5	36	31
Box	AC Power	Vzw	7.00	7.13	40.0	0.0	9.93	12.65	4.27	--	8.88	-3	31	28
Box	RRU	Vzw	12.33	12.78	39.0	0.0	102.50	17.30	11.50	--	17.30	-35	175	140
Box	Diplexer	Vzw	9.67	8.64	39.0	0.0	7.60	4.80	3.30	--	7.90	-3	14	11
Box	RRU	Vzw	10.67	9.44	39.0	0.0	21.40	13.90	4.80	--	9.80	-5	59	54
Box	Demarc	Vzw	15.00	5.68	40.0	0.0	2.00	9.60	2.70	--	7.00	0	32	31
Cylinder	Cantenna Antenna	Vzw	20.08	36.78	240.0	0.0	35.00	35.40	--	14.00	--	-176	446	270
											Totals:	**-227**	**792**	**565**

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	Bracket	Vzw	11.00	-7.09	219.0	219.0	28.00	42.00	0.50	21.00	-8	22	14
Normal	Riser	Vzw	13.45	5.96	315.0	315.0	37.40	322.80	3.00	3.00	35	1,042	1,077

Offset	Standoff	Vzw	18.00	1.27	240.0	240.0	28.00	1.50	5.38	31.00	63	24	87
										Totals:	**90**	**1,087**	**1,178**

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)**
Pin	Pin Insulator - 10 kV	Existing	26.90	0.00	0.0	0.0	7.00	4.50	8.50	0	52	52
Spool	Spool 3"	Proposed	24.50	0.00	314.0	314.0	2.00	3.00	3.19	0	12	12
Spool	Spool 3"	Existing	23.50	0.00	314.0	314.0	2.00	3.00	3.19	0	11	11
Bolt	Three Bolt	Existing	20.10	0.00	314.0	314.0	5.00	3.00	0.10	0	0	0
Bolt	Three Bolt	Existing	19.10	0.00	314.0	314.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	17.80	0.00	314.0	314.0	5.00	3.00	0.10	0	0	0
Bolt	1.25" CATV on 10M strand	Existing	16.60	0.00	314.0	314.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.00	-9.06	31.5	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	11.00	-24.07	39.6	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	9.33	2.94	31.5	280.0	5.00	3.00	0.10	0	0	0
Extension	Single Bolt	Vzw	18.50	-32.88	152.0	0.0	5.00	3.00	0.10	0	0	0
Bolt	Single Bolt	Vzw	15.60	0.00	219.0	219.0	5.00	3.00	0.10	0	0	0
									Totals:	**0**	**77**	**77**

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	17.67	33.94	10.15	7.32	6.69	11.15	1.60e+6	60.00	57.00	26.90	38,833	**388.05**	**5.35**

Form 1

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 9/28/23

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Chilmark in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** ChilmarkSC28MA
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.

Licensee's Name (Print) Barbara Kassabian

Signature Barbara Kassabian

NSTAR d/b/a EVERSOURCE
Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

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

Pole Attachment License Application Number ChilmarkSC28MA is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO[1] pole_____ attachment to FO[2] pole, _____ attachment to JU[3] pole,_____ Power Supplies and _____other attachments located in the municipality of Chilmark, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

(AGREEMENT ID #)

Title Manager, Distribution Engineering, Single Pole Admin.

Date 3/19/2024

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

Form 2

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: 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 ChilmarkSC28MA in the municipality of Chilmark in the State of Masssachusetts.

FIELD SURVEY CHARGES

Field Survey	#Poles	Unit Rate	Total
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	$_____
TOTAL Charges			**$** $139.00

* 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 # ChilmarkSC28MA is authorized. I am enclosing an advance payment in the amount of $ 139.00.

Licensee's Name (Print) Barbara Kassabian

Signature *Barbara Kassabian*

Title Site Acquisition

Address 750 West Center St, Suite 301

W.Bridgewater, MA 02379

Tel. No. 603-303-8001

Date 9/28/23

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO =** Joint Owned 50%-50% Tel-Elco, **JU =** Joint Use - 100% Tel *or* 100% Elco, **FO =** 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y or N = Y =** Yes, there are make ready charges, **N =** No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

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

RCE to Complete: Total Poles Surveyed _____ Total Poles Requiring NSTAR Make-Ready _____

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM														
SURVEYORS:				***DATE OF SURVEY*:**								CWO #:		
Verizon				***MUNIC:*** Chilmark				***STATE:*** MA				Exch Code: Munic Code:		
Licensee	Barbara Kassabian			***LICENSEE NAME: Verizon Wireless***								***LICENSEE APPLICATION #:*** ChilmarkSC28MA		
EVERSOURCE				***ELCO NAME:*** EVERSOURCE								**NSTAR APPLICATION #**		
LOCATION		***POLE #***		***ATT***	***OWNERSHIP***						CHARGE		WORK DESCRIPTION	
TEL RTE / STREET NAME ***List one pole per line***		***Tel***	***El***	***F/C P.S. Riser***	***J.O.***		***J.U.***		***F.O.***		YES	NO	TASK #S / REMARKS	* Height of Att.
					Tel	***El***	***Tel***	***El***	***Tel***	***El***				
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)		N/A	5/176			X								*
														*
														*
														*
														*
														*
TOTALS:						1								

- **Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and EVERSOURCE surveyor.**

Revised 03/06/2015

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 1/28/74 ***WO Received Date:*** _____

Service Address: Street: 5 NORTH SLOPE LANE Suite: ____ Town Chilmark Zip: 02535
(POLE ON NORTH ROAD)

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
DBA – C/O Name: Verizon Wireless
Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
Telephone 866-322-4547 Tax ID Number: 22-3372889
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, 3rd Floor, Westborough, MA 01581
Phone Number: 508- 320-2017

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

Type of Service Requested: (Circle Appropriate)

X 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		
Totals	***14.4***	

Brief Description of Work

Attach (1) antenna, (2) RRH (1) ___ meter to the pole. Will reguire 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
Main Switch Voltage: _____ Amperage:_____ Phase: _____
Service Voltage: _____ Amperage:_____ Phase: _____
Facility Type (ie: school, hospital): Telecommunications 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: Barbara Kassabian
Street Address: 750 West Center St, Suite 301
City, State, Zip: W.Bridgewater, MA 02379
Telephone: _____ Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.
Pager: _____ Fax: _____
Cell: 603-303-8001

Electrician: TBD License Number: _____
Business Name: Verizon Wireless Street
Address: 118 Flanders Road, 3rd Floor
City, State, Zip: Westborough, MA 01581
Telephone: 508-320-2017 Best Time to Call: _____
Pager: _____ Fax: _____
Cell: _____

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:

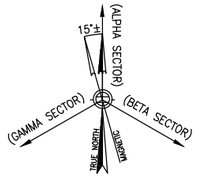
EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

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

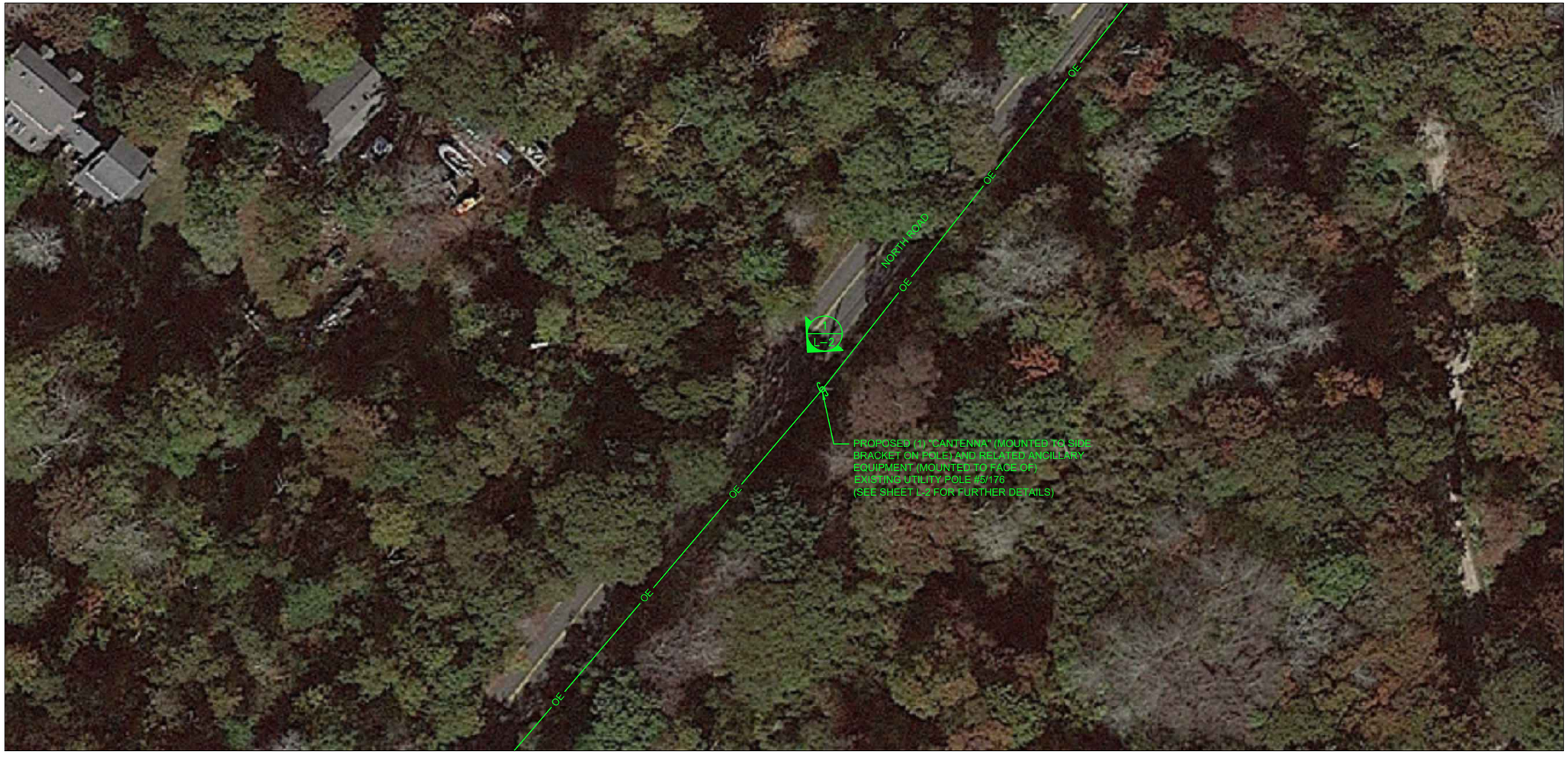
Existing Winter Peak Demand: _____ Month/Date/Year: _____
Existing Summer Peak Demand: _____ Month/Date/Year: _____



SITE NAME: CHILMARK_SC28_MA

CLUSTER: CHILMARK

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #5/176
N 41.365698° (41° 21' 56.51")
W -70.739267° (-70° 44' 21.36")
APPROXIMATE GROUND ELEVATION 161.5'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 25' 50' 75'

SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	1
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	1
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	1
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM	1

PRESIDING POWER COMPANY
EVERSOURCE

verizon
" Because Better Matters "

CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	07/07/23
1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

DRAWING NO:
L-1

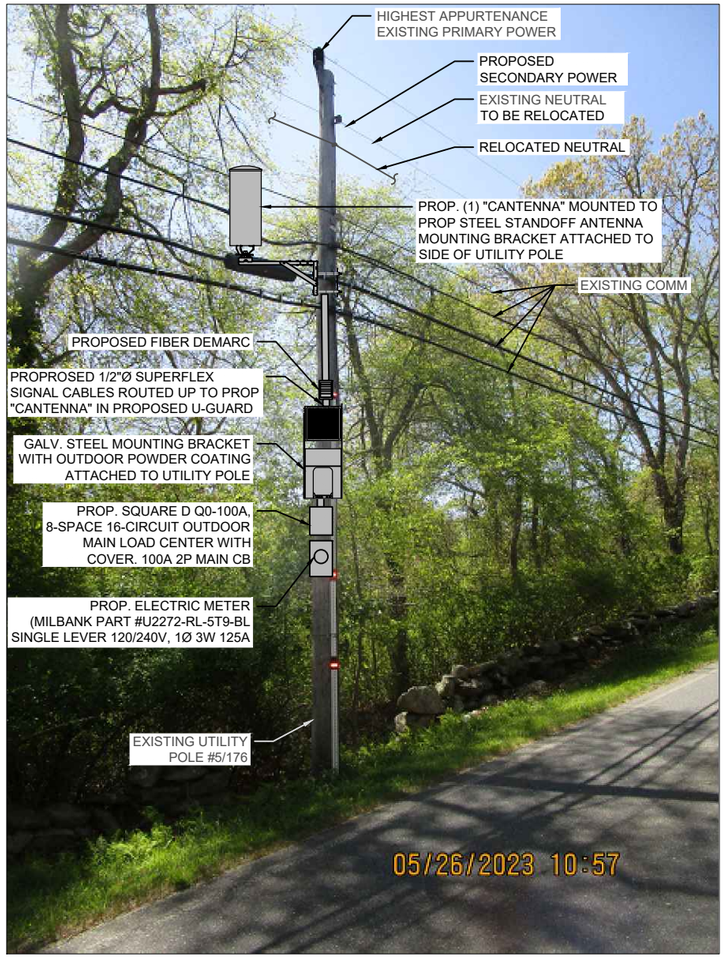
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23

GENERAL NOTES:

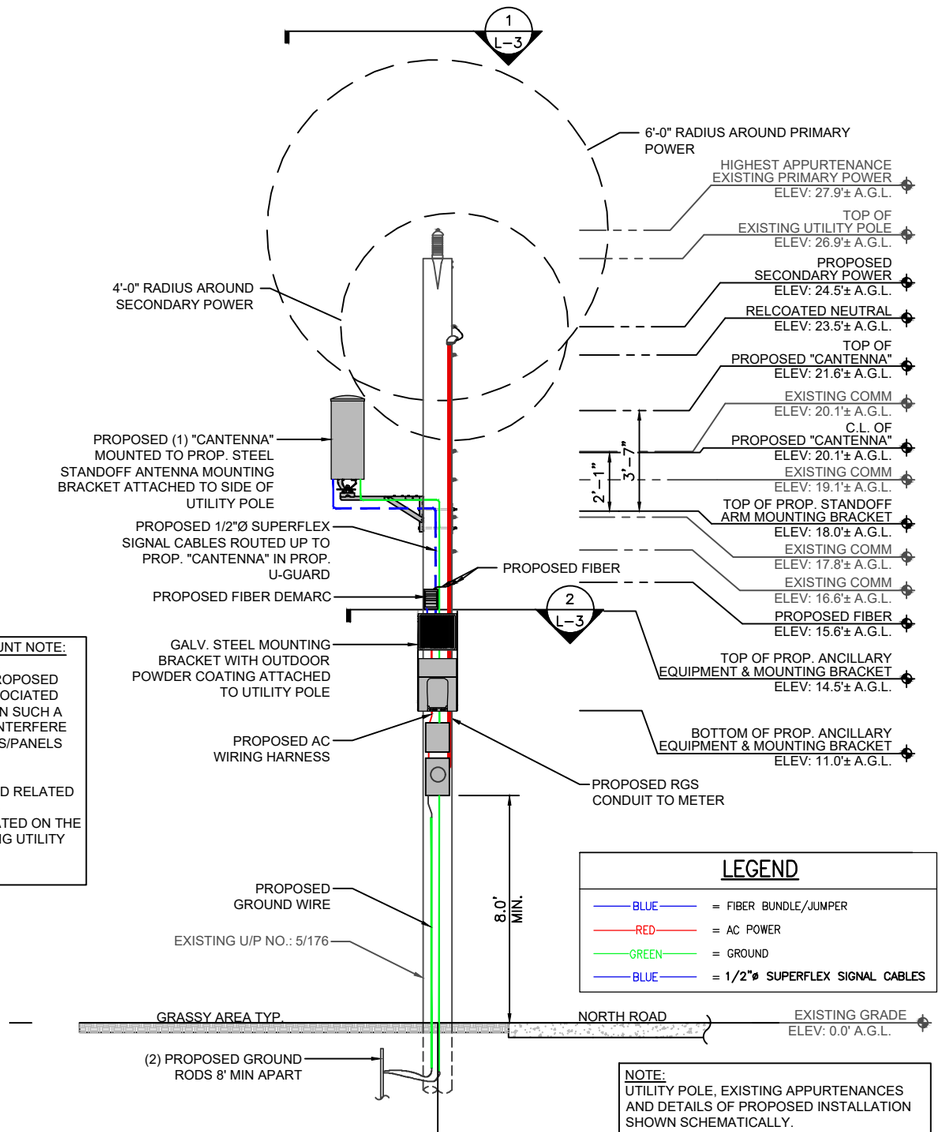
1. THIS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION OF THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP AND CONTACT INFORMATION TO UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CENTERLINE LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.
4. VERIZON WIRELESS GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

ANTENNA AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKET, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKET ENCOUNTER LOCATED ON THE EXISTING UTILITY POLE



UTILITY POLE # 5/176 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
N.T.S.

EQUIPMENT AND MOUNT NOTE:
CONTRACTOR SHALL POSITION/ROTATE PROPOSED EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXISTING WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXISTING UTILITY POLE.



NOTE:
UTILITY POLE, EXISTING APPURTENANCES AND DETAILS OF PROPOSED INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE # 5/176 ELEVATION (PROPOSED CONDITIONS) 1 L-2
SCALE: 3/16" = 1'-0"
0 2'-8" 5'-4" 8'-0"

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/24/23

SITE NAME:
CHILMARK_SC28_MA

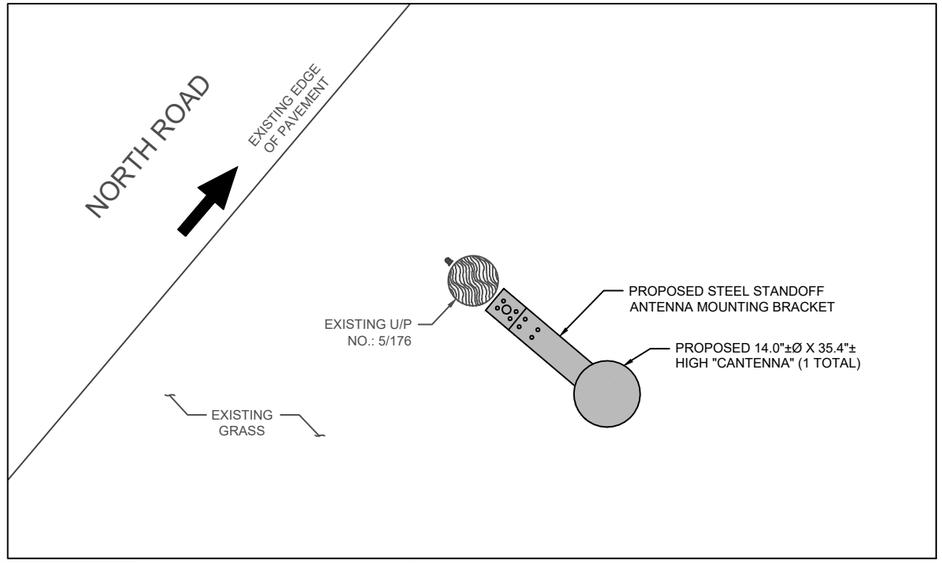
UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
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SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23



NOTE:

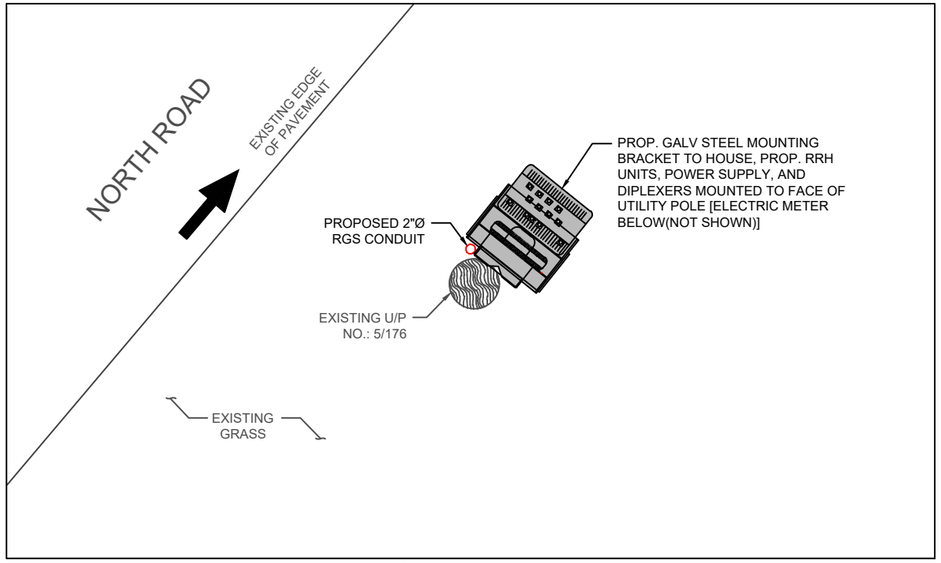
REFER TO THE RFDS FOR THE REQUIRED AZIMUTHS

(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANTENNA ORIENTATION PLAN — 1 / L-3

SCALE: 3/8" = 1'

0 1'–4" 2'–8" 4'–0"



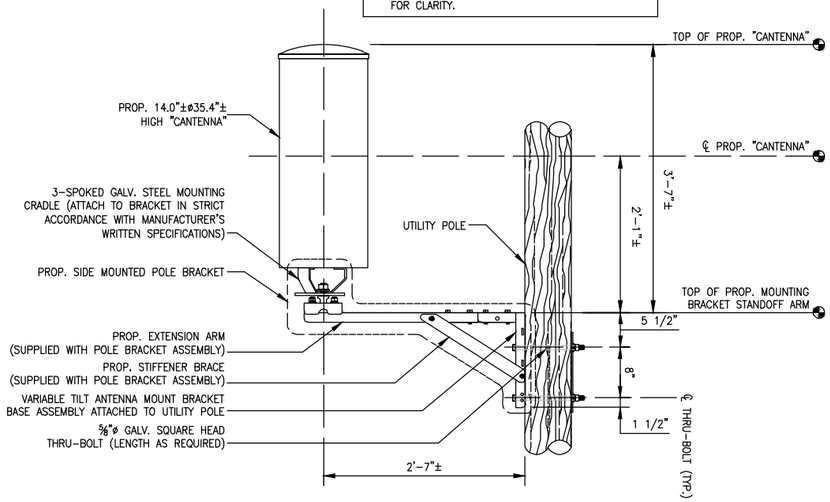
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

ANCILLARY EQUIPMENT ORIENTATION PLAN — 2 / L-3

SCALE: 3/8" = 1'-0"

0 1'–4" 2'–8" 4'–0"

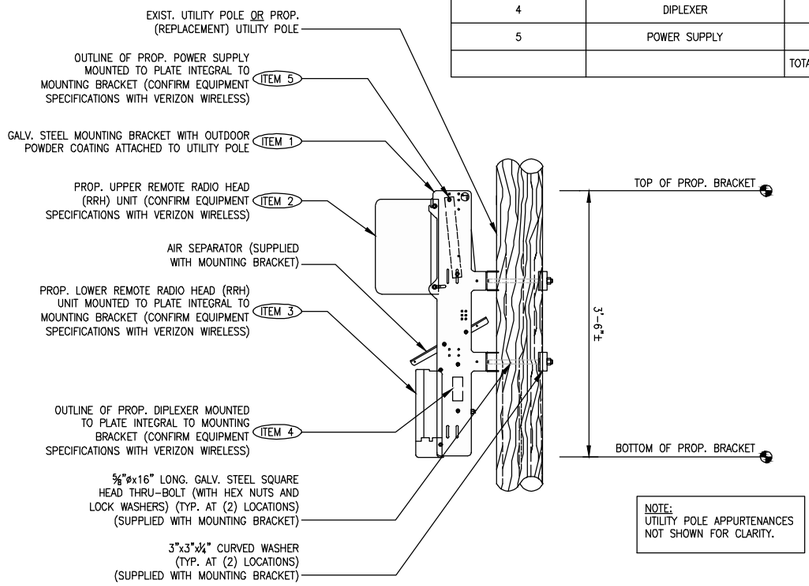
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



"CANTENNA" MOUNT DETAIL — 3 / L-3

SCALE: N.T.S.

ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.2±
2	UPPER RRH UNIT	102.5±
3	LOWER RRH UNIT	21.4±
4	DIPLEXER	7.6±
5	POWER SUPPLY	25.6±
		TOTAL – 189.3± lbs (SAY 190 lbs)



NOTE:
UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

ANCILLARY EQUIPMENT MOUNTING BRACKET DETAIL — 4 / L-3

SCALE: N.T.S.

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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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1	REVISED FOR REVIEW	08/24/23

SITE NAME:

CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

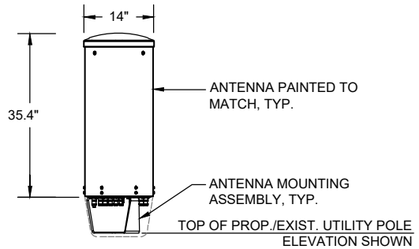
ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS

DRAWING NO:

L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23



ELEVATION

TYPICAL ANTENNA	
DIMENSIONS:	35.4"±H X 14.0"±Ø
WEIGHT:	35.0± LBS EACH
QUANTITY:	TOTAL OF 1

"CANTENNA" DETAIL (1 / L-4)

SCALE: N.T.S.



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	17.3"±H x 17.3"±W x 11.5"±D
WEIGHT:	102.5± LBS
QUANTITY:	TOTAL OF 1



REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.9"±H x 9.8"±W x 4.8"±D
WEIGHT:	21.4± LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2 / L-4)

SCALE: N.T.S.



DIPLEXER	
DIMENSIONS:	4.8"±H x 7.9"±W x 3.3"±D
WEIGHT:	7.6 LBS
QUANTITY:	TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS (3 / L-4)

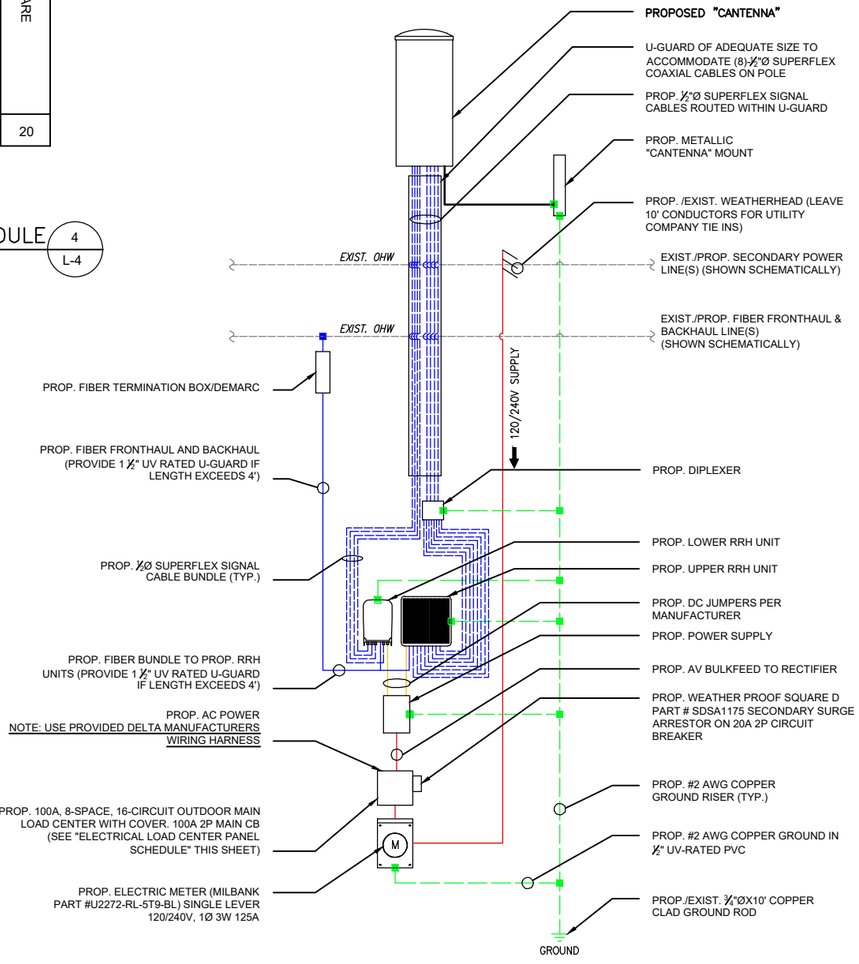
SCALE: N.T.S.

SQUARE D QO-100A, 8-SPACE, 16-CIRCUIT, 120/240V AC POWER OUTDOOR MAIN LOAD CENTER, IN NEMA 3R OUTDOOR ENCLOSURE

CKT #	1	2	3	4	5	6	7	8
DESCRIPTION	MAIN BREAKER		SURGE ARRESTOR		POWER DISTRIBUTION UNIT		SPARE	
AMP	100		20		20		20	

ELECTRIC LOAD CENTER PANEL SCHEDULE (4 / L-4)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

- BLUE = FIBER BUNDLE/JUMPER
- RED = AC POWER
- ORANGE = DC POWER
- GREEN = GROUND
- BLUE = 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRIC ON-LINE DIAGRAM (5 / L-4)

SCALE: N.T.S.

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CENTERLINE ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

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SITE NAME:

CHILMARK_SC28_MA

UTILITY POLE #5/176
5 NORTH SLOPE LANE (POLE ON NORTH ROAD)
CHILMARK, MA 02535

DRAWING TITLE:

ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE-LINE DIAGRAM

DRAWING NO:

L-4

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY:	MDG LOCATION ID:
AS SHOWN	DRAWN BY: DN	5000932267
	CHECKED BY: DC	
VENDOR PROJ. NO.:	ORIGINAL ISSUE DATE:	SITE VISIT DATE:
17087890	07/07/23	05/27/23

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