BZA APPLICATION FORM

GENERAL INFORMATION

The undersigned hereby petitions the P	Board of Zoning Appeal for the following:
Special Permit: X Variance	e: Appeal:
PETITIONER: Cellco Partnership, d/b/a Verizon Wi	ireless
PETITIONER'S ADDRESS: 118 Flanders Road, V	Vestborough, MA 01581
LOCATION OF PROPERTY: 799 Concord Avenue	9
TYPE OF OCCUPANCY: Hospital	ZONING DISTRICT: Office 1; AOD3
REASON FOR PETITION:	
Additions	New Structure
Change in Use/Occupancy	Parking
Conversion to Addi'l Dwel	ling Unit's Sign
Dormer	Subdivision
X Other: Mobile Communications	s Facility
DESCRIPTION OF PETITIONER'S PROPOSAL:	6-111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	g mobile communications facility located at 799 Concord Avenue. S
attached Special Permit (BZA Case No.10518), photogra	aphs, and As-Built drawings.
SECTIONS OF ZONING ORDINANCE CITED:	X
Article 4 Section 4.32(g)(1) and F	ootnote 49 (Section 4.40.49)
Article 10 Section 10.40 (Special Pe	ermit)
Article Section	
Original Signature(s): / 1 / 1 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2
	(Petitioner(s)/Owner) Timothy C. Twardowski, attorney for Cellco Partnership d/b/a Verizon Wireless (Print Name)
Address:	A POLICE OF THE STATE OF THE ST
	118 Flanders Road, Westborough, MA 01581
Tel. No.	: (508) 330-3300
E-Mail A	ddress: ttwardowski@rc.com
Date: 3/2/17	* Robinson + Cole LLP One Boston Place, 25th Floor, Boston, MA 02108 (617) 557-5965

BZA APPLICATION FORM - OWNERSHIP INFORMATION

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/We SANCTA MARIA HOSPITAL, INC.				
(OWNER)				
Address: 799 CONCORD AVENUE, CAMBRIDGE, MA 02138				
State that I/We own the property located at 799 CONCORD AVENUE ,				
which is the subject of this zoning application.				
The record title of this property is in the name of <u>SANCTA MARIA HOSPITAL</u> , <u>INC</u> .				
*Pursuant to a deed of duly recorded in the date				
County Registry of Deeds at Book 10521, Page 187; or				
Middlesex Registry District of Land Court, Certificate No				
BookPage				
SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT*				
*Written evidence of Agent's standing to represent petitioner may be requested.				
\mathcal{N} . \mathcal{N}				
Commonwealth of Massachusetts, County of Mich sex				
The above-name May Jake Nationson personally appeared before me,				
this 24 of chucy, 2017, and made oath that the above statement is true.				
Starl mother Notary				
My commission expires Seplembr 28,2023 (Notary Seal).				

 If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.



gradient de la company de la c

BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A SPECIAL PERMIT

Please describe in complete detail how you meet each of the following criteria referring to the property and proposed changes or uses which are requested in your application. Attach sheets with additional information for special permits which have additional criteria, e.g.; fast food permits, comprehensive permits, etc., which must be met.

Granting the Special Permit requested for 799 Concord Avenue (location) would not be a detriment to the public interest because:

A) Requirements of the Ordinance can or will be met for the following reasons:

As demonstrated by the documents and information provided with this application and as will be further demonstrated at the hearing on this matter, the existing facility meets the requirements of the Zoning Ordinance and the special permit granted in BZA Case No. 10518.

B) Traffic generated or patterns of access or egress would not cause congestion hazard, or substantial change in established neighborhood character for the following reasons:

The existing facility has created virtually no traffic demand, with approximately one or two vehicle trips per month by a standard passenger vehicle during normal business hours for routine maintenance.

C) The continued operation of or the development of adjacent uses as permitted in the Zoning Ordinance would not be adversely affected by the nature of the proposed use for the following reasons:

The existing facility has had no adverse effects on the operation or development of adjacent uses. The existing facility emits no light, odor, dust, or glare and generates no unusual noise or other adverse impacts.

D) Nuisance or hazard would not be created to the detriment of the health, safety and/or welfare of the occupant of the proposed use or the citizens of the City for the following reasons:

The existing facility does not generate traffic or other negative impacts on the surrounding properties or within the City of Cambridge. The existing facility requires no water or sewer service and emits no light, odor, dust, or glare, and generates no unusual noise or other adverse impacts. The existing facility is unoccupied, with no employees or customers. The availability of wireless communications enhances the health, safety, and welfare of the community. The existing facility was installed in 2015 and has operated continuously since then. ISD confirmed by telephone call on 3/2/2017 that the City has not received any complaints about the facility.

E) For other reasons, the proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the intent or purpose of this ordinance for the following reasons:

The existing facility was designed and constructed to minimize its visual impact and is in harmony with the general purpose of the Zoning Ordinance and complies with the requirements of the Zoning Ordinance.

BYN WASTICWLION COUNT

DIMENSIONAL INFORMATION

Cellco Partnership d/b/a Verizon Wireless PRESENT USE/OCCUPANCY: Hospital APPLICANT: 799 Concord Avenue Office 1; AOD3 LOCATION: ZONE: **PHONE:** (508) 330-3300 Mobile Communications Facility REQUESTED USE/OCCUPANCY: **EXISTING** REQUESTED **ORDINANCE** CONDITIONS REQUIREMENTS1 CONDITIONS No Change NA TOTAL GROSS FLOOR AREA: (max.) 223,093 No Change 5,000 LOT AREA: (min.) RATIO OF GROSS FLOOR AREA No Change 0.75 TO LOT AREA: (max.) 1,200 NA No Change LOT AREA FOR EACH DWELLING UNIT: (min.) No Change NA SIZE OF LOT: WIDTH (min.) NA DEPTH 243' No Change 25' Setbacks in FRONT (min.) Feet: 186' No Change 63.26' REAR (min.) 104' No Change 31.64 LEFT SIDE (min.) 48' No Change 31.64' RIGHT SIDE (min.) 71' 4" (high roof) No Change 55'/65' SIZE OF BLDG.: HEIGHT (max.) 86' 6" (penthouse) LENGTH WIDTH RATIO OF USABLE OPEN SPACE TO LOT AREA:3) NA NA NA (min.) NA NA NA NO. OF DWELLING UNITS: (max.) NA NA NA NO. OF PARKING SPACES: (min./max) NA NA NA NO. OF LOADING AREAS: (min.) 41' No Change NA DISTANCE TO NEAREST BLDG. (min.) ON SAME LOT: Describe where applicable, other occupancies on same lot, the size of adjacent buildings on same lot, and type of construction proposed, e.g.; wood frame, concrete, brick, steel, etc. Not applicable

^{1.} SEE CAMBRIDGE ZONING ORDINANCE ARTICLE 5.000, SECTION 5.30 (DISTRICT OF DIMENSIONAL REGULATIONS).

^{2.} TOTAL GROSS FLOOR AREA (INCLUDING BASEMENT 7'-0" IN HEIGHT AND ATTIC AREAS GREATER THAN 5') DIVIDED BY LOT AREA.

^{3.} OPEN SPACE SHALL NOT INCLUDE PARKING AREAS, WALKWAYS OR DRIVEWAYS AND SHALL HAVE A MINIMUM DIMENSION OF 15'.

DONALD L. HAES, JR., PH.D., CHP

Radiation Safety Specialist

MA Radiation Control Program Health Physics Services Provider Registration #65-0017 PO Box 198, Hampstead, NH 03841 603-303-9959 Email: donald_haes_chp@comcast.net

February 25, 2017

RE: Post installation measurements of radio frequency fields for the Verizon Wireless Personal Wireless Services facility located at the building at 799 Concord Avenue in Cambridge, MA.

PURPOSE

I have repeated the radio frequency (RF) field measurements obtained on November 1, 2013 for the Verizon Wireless installation of panel antennas on the building for their personal wireless services (PWS). The measured values of power density are presented as a percent of current Maximum Permissible Exposures (%MPE) as adopted by the Federal Communications Commission (FCC), ^{i,ii} and those established by the Massachusetts Department of Public Health (MDPH) ⁱⁱⁱ (100% signifies an acceptable amount). This report provides written proof that the RF fields from the existing facility complies with the FCC RF exposure guidelines, including residential areas and in the surrounding neighborhood.

SUMMARY

Previous theoretical RF field calculations performed by this consultant (11/7/2013) indicate the summation of the existing Verizon Wireless personal wireless services RF contributions, in addition to the existing ambient levels, would be well-within the established RF exposure guidelines. The measured existing ambient RF field levels indicated the maximum to be around one percent of the current State and Federal maximum permissible exposure guidelines. There is very little change in ambient RF field readings since the last measurements were obtained in 2013. These RF measurements are accurate, and meet both FCC and the MDPH guidelines.

Based on the RF fields I have measured; it is my expert opinion that this facility complies with all regulatory guidelines for RF exposure to members of the public with the existing Verizon Wireless personal wireless services antennas.

EXPOSURE LIMITS AND GUIDELINES

The RF exposure guidelines adopted by the FCC are a combination of the standards published by the American National Standards Institute (ANSI) ^{iv} and the National Council on Radiation Protection and Measurement (NCRP). ^v Also applicable are those published by the MDPH. The RF exposure guidelines are divided into two categories: "Controlled/Occupational areas" (those areas restricted to access by RF workers only) and "Uncontrolled/Public Areas" (those areas unrestricted for public access). Listed in Table 1 below and shown in Figure 1 are the applicable RF exposure guidelines for uncontrolled areas as they pertain to the operating frequency band of the PWS facility.

<u>Frequency Band:</u>	Maximum Permissible Exposure:
300 - 1500 MHz	f/1.5 in μW/cm ²
1500 - 100,000 MHz	1000 μW/cm ² *
Note: 1 μW = 0.000001 Watt * For equivalent plane-wave power densi	ty, where f is the frequency in MHz (10 ⁶ Hz)

NOTE: FCC 5% Rule – At multiple transmitter sites, actions necessary to bring the area into compliance with the RF exposure guidelines are the shared responsibility of all licensees whose transmitters produce RF field levels in excess of 5% of the applicable FCC MPEs.

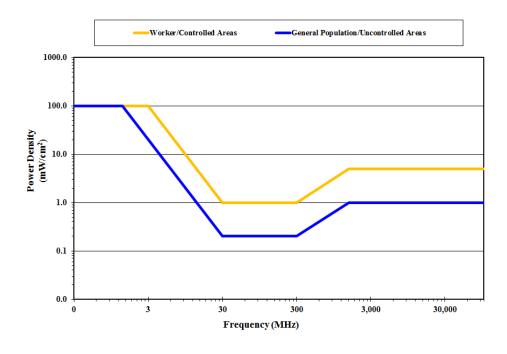


Figure 1: FCC Limits for Maximum Permissible Exposure (MPE)

MEASUREMENT PROTOCOL

RF ambient field measurements were obtained on February 25, 2017, using accepted scientific procedures. The following environmental conditions were noted: Partly sunny skies; Temperature 63°F - 65°F; Humidity 67%; Wind gusts up to 10 mph); Barometric pressure 1000.1 mBar.

The measuring equipment included the following:

Narda model SRM-3000 Electromagnetic Radiation Meter/Spectrum Analyzer with model 3AX 75M-3G Broadband Isotropic (50 - 3000 MHz) probe. The equipment was within the calibration specifications set by the manufacturer. The SRM-3000 was used for an RF field evaluation and exposure assessment. The unit was set to provide a read-out in %MPE for members of the general public within the frequency band of 50 MHz to 3,000 MHz.

The RF field measurements were obtained during normal use of the existing transmitters. The measurements were obtained at several locations in the general vicinity (See map, Figure 2). At each location, measurements were obtained by continuously scanning an area from the ground plane up to a height of six feet above ground level, referred to as the "Spatial Average". The highest reading during the spatial average was recorded as the "peak" reading. The results are listed in Table 2.



Figure 2: Locations of RF Field Measurements Vicinity of 799 Concord Avenue, Cambridge, MA (Picture courtesy Bing Maps© and may not represent current conditions)

RESULTS - RF FIELD EVALUATION

The SRM-3000 was used for an RF field evaluation and RF exposure assessment. The SRM-3000 was set to provide a read-out in %MPE for members of the general public within the frequency band of 50 to 3,000 MHz. The "Spectrum Analysis" mode was used to examine the total RF field with a visual representation of the spectrum. Each "peak" was evaluated by frequency and amplitude (intensity).

The RF field evaluation was performed during normal use of the existing transmitters to ensure they were in operation during the RF exposure assessment measurements. The locations for the measurements (See map, Figure 2) were based upon making a comparison with previously obtained measurement data. For this particular site, measurements were obtained using two methods:

- (1) **Potential RF Exposure based on Spatial Average**: The built-in "averaging" feature was used to record while the probe was continuously scanning an area from the ground plane up to a height of six feet above the ground, referred to as the "Spatial Average". The **highest observed** spatial average readings at each location were recorded in units of %MPE for members of the public 50 to 3000 MHz. The highest observed spatially-averaged RF field levels are contained in Table 2.
- (2) **Potential RF Exposure based on Peak Fields**: The built-in "peak hold" feature was used during the continuous scan. The **highest observed** readings at each location were recorded in units of %MPE for members of the public 50 to 3000 MHz, and are contained in Table 2.

The "Spectrum Analysis" mode was used to examine the total RF field with a visual representation of the spectrum. Each "peak" was evaluated by frequency and amplitude (intensity). Figure 3 shows the full spectrum (50 – 3000 MHz) captured at the location of the host building parking lot (#2, Figure 2).

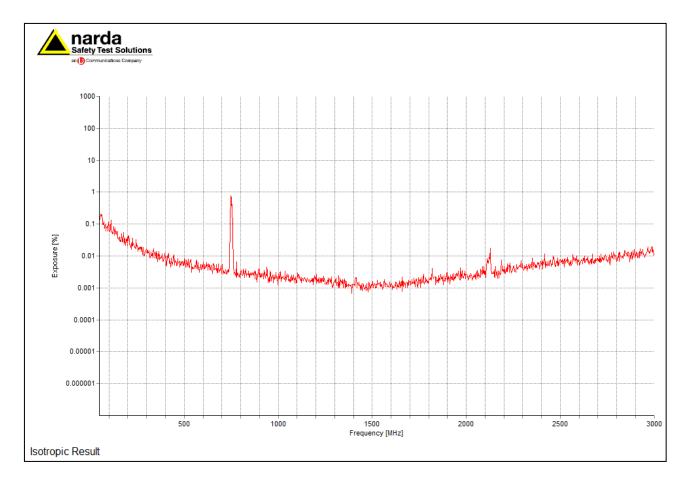


Figure 3: Spectral Analysis; 50 - 3000 MHz Location #2, Figure 2

NOTES:

- (1) Y-Axis "%MPE(FCC General Public Guidelines)" in LOGARITHMIC scale, maximum 1000% MPE; X-Axis Frequency in LINEAR Scale; linear-linear plots would be off the page.
- (2) Dominant peak at ~750 MHz; Verizon Wireless "LTE"
- (2) Secondary peaks at ~2150 MHz; Verizon Wireless "AWS"

RESULTS

Table 2: Results of Broadband RF Field Measurements; 50 to 3000 MHz. Vicinity of 799 Concord Avenue, Cambridge, MA

Location, See Map, Figure 2	Spatial Average Reading Corrected (% MPE) *	Peak Meter Reading Corrected (% MPE)*
1	1.18%	1.24%
2	1.57%	1.58%
3	0.82%	1.23%
4	0.75%	1.04%
5	0.55%	0.78%
6	0.89%	1.33%
7	0.88%	1.14%
8	0.50%	0.76%
9	1.16%	1.26%
10	0.61%	0.73%

Table Notes:

^{*} The highest observed readings at each location were recorded in units of %MPE for members of the public 50 to 3000 MHz.

CONCLUSION

Previous theoretical RF field calculations performed by this consultant (11/7/2013) indicate the summation of the existing Verizon Wireless personal wireless services RF contributions, in addition to the existing ambient levels, would be well-within the established RF exposure guidelines. The measured existing ambient RF field levels indicated the maximum to be around one percent of the current State and Federal maximum permissible exposure guidelines. There is very little change in ambient RF field readings since the last measurements were obtained in 2013. These RF measurements are accurate, and meet both FCC and the MDPH guidelines.

Based on the RF fields I have measured; it is my expert opinion that this facility complies with all regulatory guidelines for RF exposure to members of the public with the existing Verizon Wireless personal wireless services antennas.

Feel free to contact me if you have any questions.

Sincerely

Donald L. Haes, Jr., Ph.D

Certified Health Physicist

DONALD L. HAES, JR., PH.D., CHP

Radiation Safety Specialist

MA Radiation Control Program Health Physics Services Provider Registration #65-0017 PO Box 198, Hampstead, NH 03841 603-303-9959 Email: donald_haes_chp@comcast.net

STATEMENT OF CERTIFICATION

- 1. I certify to the best of my knowledge and belief, the statements of fact contained in this report are true and correct.
- 2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are personal, unbiased professional analyses, opinions and conclusions.
- 3. I have no present or prospective interest in the property that is the subject of this report and I have no personal interest or bias with respect to the parties involved.
- 4. My compensation is not contingent upon the reporting of a predetermined energy level or direction in energy level that favors the cause of the client, the amount of energy level estimate, the attainment of a stipulated result, or the occurrence of a subsequent event.
- 5. This assignment was not based on a requested minimum environmental energy level or specific power density.
- 6. My compensation is not contingent on an action or event resulting from the analyses, opinions, or conclusions in, or the use of, this report.
- 7. The consultant has accepted this assessment assignment having the knowledge and experience necessary to complete the assignment competently.
- 8. My analyses, opinions, and conclusions were developed and this report has been prepared, in conformity with the *American Board of Health Physics* (ABHP) statements of standards of professional responsibility for Certified Health Physicists.

Date: February 25, 2017

Donald L. Haes, Jr., Ph.D

Certified Health Physicist

ENDNOTES

- ii. Telecommunications Act of 1996, 47 USC; Second Session of the 104th Congress of the United States of America, January 3, 1996.
- iii. 105 CMR 122.000: Massachusetts Department of Public Health, Non-Ionizing Radiation Limits for: The General Public from Non-Occupational Exposure to Electromagnetic Fields, Employees from Occupational Exposure to Electromagnetic Fields, and Exposure from Microwave Ovens.
- iv. ANSI/IEEE C95.1-1999: American National Standard, Safety levels with respect to human exposure to radio frequency electromagnetic fields, from 3 KHz to 300 GHz (**Updated in 2010**).
- v. National Council on Radiation Protection and Measurements (NCRP); *Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields*, NCRP Report 86, 1986.
- vi. ANSI/IEEE C95.3-2002: American National Standard, *IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz–300 GHz.*
- vii. NCRP Report No. 119: National Council on Radiation Protection and Measurements, 1993; *A Practical Guide to the Determination of Human Exposure to Radiofrequency Fields*.

ⁱ. Federal Register, Federal Communications Commission Rules; *Radiofrequency radiation; environmental effects evaluation guidelines* Volume 1, No. 153, 41006-41199, August 7, 1996. (47 CFR Part 1; Federal Communications Commission).



AFFIDAVIT OF RADIO FREQUENCY ENGINEER

The undersigned, in support of the application to renew the special permit for the existing wireless communications facility consisting of rooftop mounted equipment and an indoor equipment room at the building located at 799 Concord Avenue (Sancta Maria Hospital) in Cambridge, Massachusetts, states the following:

- My name is Keith Vellante. I have a Bachelor of Science degree in Electrical Engineering from the University of New Hampshire and I am employed as a Radio Frequency (RF) Engineer for C Squared Systems, LLC.
 C Squared Systems has entered into a contract with Verizon Wireless to provide RF consulting services on behalf of Verizon Wireless. I have reviewed this site with the Radio Frequency Engineer responsible for the Verizon Wireless network design in the area of Massachusetts that includes the City of Cambridge, MA.
- 2. Verizon Wireless is a federally licensed provider of wireless communications services with a national footprint.
- 3. The subject facility provides wireless voice and data services to busy areas of western Cambridge and eastern Belmont generally encompassed by Route 60, Route 2, Alewife Brook Parkway, and Concord Avenue. This facility is an integral piece of Verizon Wireless' network and its continued operation is critical in order to maintain reliable service in this area.
- 4. I have reviewed the existing installation at 799 Concord Street as well as the other existing and planned antenna site locations used in Verizon Wireless' system in and around the surrounding areas. I have analyzed the benefits that the subject site represents to Verizon Wireless' network and its users. I employ computer simulations, which incorporate the results of field tests of existing facilities, to determine existing radio frequency (RF) coverage for Verizon Wireless' system. These simulations model characteristics such as antenna types, antenna height, output power, terrain, ground elevations and RF propagation effects of the frequency utilized.
- The following table provides details of the surrounding Verizon Wireless telecommunications facilities used to generate the RF maps attached hereto as exhibits to Verizon Wireless' application.

Site Name:	Latitude:	Longitude:	Street Address:	City, State:	Structure Type:	Antenna Height (AGL):	Status:
Arlington 3	42.4213	-71.1723	1098 Massachusetts Avenue	Arlington, MA	Rooftop	45/49.5	On-Air
Arlington 4	42.4091	-71.1470	300 Massachusetts Avenue	Arlington, MA	Steeple	64.25	On-Air
Arlington Ctr	42.4168	-71.1507	47 Mystic Street	Arlington, MA	Rooftop	83	On-Air
Belmont	42.3813	-71.1757	125 Trapelo Road	Belmont, MA	Rooftop	60	On-Air
Belmont 3	42.3990	-71.1752	582 Pleasant Street	Belmont, MA	Steeple	46.1	Approved
Belmont N	42.3994	-71.1884	780 Concord Avenue	Belmont, MA	Monopole	97	On-Air
Waverley	42.3873	-71.1900	20 Church Street	Belmont, MA	Rooftop	37/43	On-Air
Arlington 2	42.3986	-71.1398	40 Whittemore Avenue	Cambridge, MA	Rooftop	52	On-Air
Belmont 2	42.3916	-71.1554	799 Concord Avenue	Cambridge, MA	Rooftop	79.3	On-Air
Cambridge West	42.3808	-71.1546	700 Huron Avenue	Cambridge, MA	Rooftop	125	On-Air
Fresh Pond	42.3882	-71.1426	545 Concord Avenue	Cambridge, MA	Rooftop	53	On-Air
Harvard Sq 2	42.3816	-71.1201	1654 Massachusetts Avenue	Cambridge, MA	Rooftop	67	On-Air
Mt Auburn	42.3737	-71.1338	330 Mt Auburn Street	Cambridge, MA	Rooftop	48/60	On-Air
Porter Sq	42.3915	-71.1230	2067 Massachusetts Avenue	Cambridge, MA	Rooftop	77	On-Air
Somerville 7	42.3965	-71.1232	49 Davis Square	Somerville, MA	Rooftop	64	On-Air
Tufts 2	42.4036	-71.1293	15 Weston Avenue	Somerville, MA	Rooftop	79.25	On-Air
Watertown 8	42.3746	-71.1507	818 Mt Auburn Street	Watertown, MA	Rooftop	45.8	On-Air
Watertown E	42.3679	-71.1520	76 Coolidge Hill Road	Watertown, MA	Smokestack	50	On-Air

- 6. The signal propagation plots included as attachments were produced using deciBel Planner™, a Windows-based RF propagation computer modeling program and network planning tool. The software takes into account the topographical features of an area, land cover, antenna models, antenna heights, RF transmitting power and receiver thresholds to predict coverage and other related RF parameters used in site design and network expansion.
- 7. The coverage map titled "Existing/Approved LTE Coverage with 799 Concord Avenue" attached hereto depicts the coverage provided from the "On-Air" and "Approved" Verizon Wireless sites in the western Cambridge area, including the subject facility located at 799 Concord Avenue. "On-Air" sites are existing Verizon Wireless facilities, and "Approved" sites are defined as those that are in the final stages of permitting or construction and are expected to be turned on-air in the near future. The green shaded areas represent the level of coverage necessary to cover into the denser building makeups of the business and commercial areas, whereas the orange represents the minimum level of coverage for reliable service in the more residential areas. The deficient areas of coverage are defined by the unshaded/white areas.
- 8. The coverage map titled "LTE Coverage without 799 Concord Avenue" attached hereto depicts what Verizon Wireless' coverage in the western Cambridge area would be, without the subject facility at 799 Concord Avenue. As can be seen from the coverage map, the surrounding network of Verizon Wireless sites is unable to provide adequate coverage to areas of western Cambridge, creating a significant gap in reliable service along key roadways such as Concord Avenue, Blanchard Road, and the surrounding roads, neighborhoods, and business/commercial/community areas.
- 9. The map titled "Existing/Approved LTE Sector Footprints with 799 Concord Avenue" depicts the areas primarily served by the sectors (a.k.a. signal "footprints") of the "On-Air" and "Approved" Verizon Wireless sites in the area, which are shown by the unique color for each particular site or sector of interest. For clarity, all other sectors of less interest with respect to the subject facility are shown in grey. As demand for wireless voice and data services continues to grow, Verizon Wireless manages the footprint of each sector so that it can support the demand within the area it is primarily serving. In addition to maintaining coverage in the area, the subject site is also needed to serve existing and anticipated demand in the vicinity. As shown in this map by the green shaded area, the facility at 799 Concord Avenue predominantly serves much of the area encompassed by Route 60, Route 2, Alewife Brook Parkway, and Concord Avenue.
- 10. The map titled "LTE Sector Footprints without 799 Concord Avenue" depicts the sector footprints without the facility at 799 Concord Avenue. As shown in this map, the footprints of the surrounding sectors would expand to fill the void left behind without the 799 Concord Avenue facility and impose a significant additional burden on those sectors from a capacity standpoint. Please note that the outer parts of each sector footprint may include areas that presently have signal strength below the targeted value required for reliable service to Verizon Wireless' customers. The fact that low-level signal is capable of reaching these areas does not mean that these areas experience adequate coverage. These unreliable areas of low signal level impose a significant capacity burden on the sites primarily serving the area.
- 11. I have concluded that the continued operation of the subject facility is necessary to maintain the service currently provided by Verizon Wireless and that without this site, a significant gap in service would be created. Any reduction in the antenna configuration and/or equipment would also limit optimal performance and effectiveness of this site.
- 12. Verizon Wireless certifies that the subject facility will not cause interference to any lawfully operating emergency communication system, television, telephone, or radio in the surrounding area. The FCC has licensed Verizon Wireless to transmit and receive in the Upper C Block of the 700 MHz band, B Block of the Cellular (850 MHz) band, the F, C3, and C4 Blocks of the PCS (1900 MHz) band, and the A and B Blocks of the AWS (2100 MHz) band of the RF spectrum. As a condition of the FCC licenses, Verizon Wireless is prohibited from interfering with other licensed devices that are being operated in a lawful manner. Furthermore, no emergency communication system, television, telephone, or radio is licensed to operate on these frequencies, and therefore interference is highly unlikely.

- 13. Pursuant to its Federal Communications Commission (FCC) licenses, Verizon Wireless is required to ensure that all radio equipment operating at the subject communications facility and the resulting radio frequency exposure levels are compliant with FCC requirements as well as federal and state health and safety standards.
- 14. Providing wireless communication services is a benefit to the residents of the City of Cambridge, as well as to mobile customers traveling throughout the area. The subject facility is well suited to meet Verizon Wireless' network requirements for the intended area. The absence of a wireless telecommunications facility at the subject location will result in the creation of coverage gaps and inadequate network capacity in this area. Without the subject facility, Verizon Wireless would be unable to continue providing reliable wireless communication services in the area of western Cambridge; therefore, Verizon Wireless respectfully requests that the City of Cambridge act favorably upon the subject facility.

Signed and sworn under the pains and penalties of perjury _	February 27th	, 2017.
	1 Cu us	

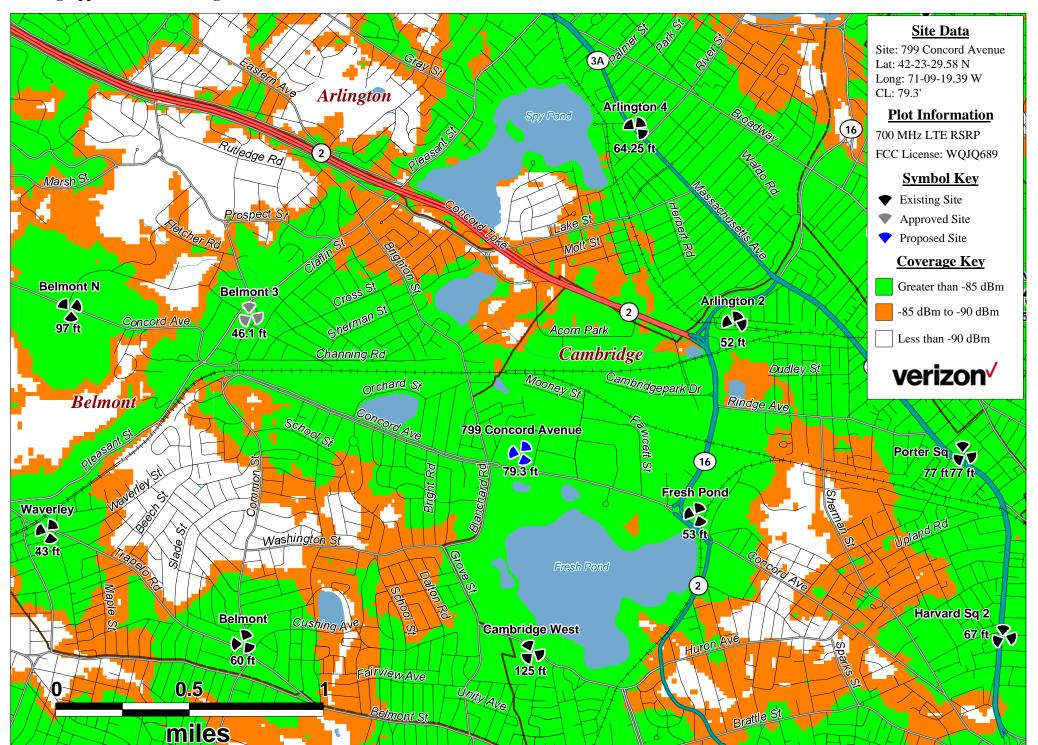
Keith Vellante

Radio Frequency (RF) Engineer

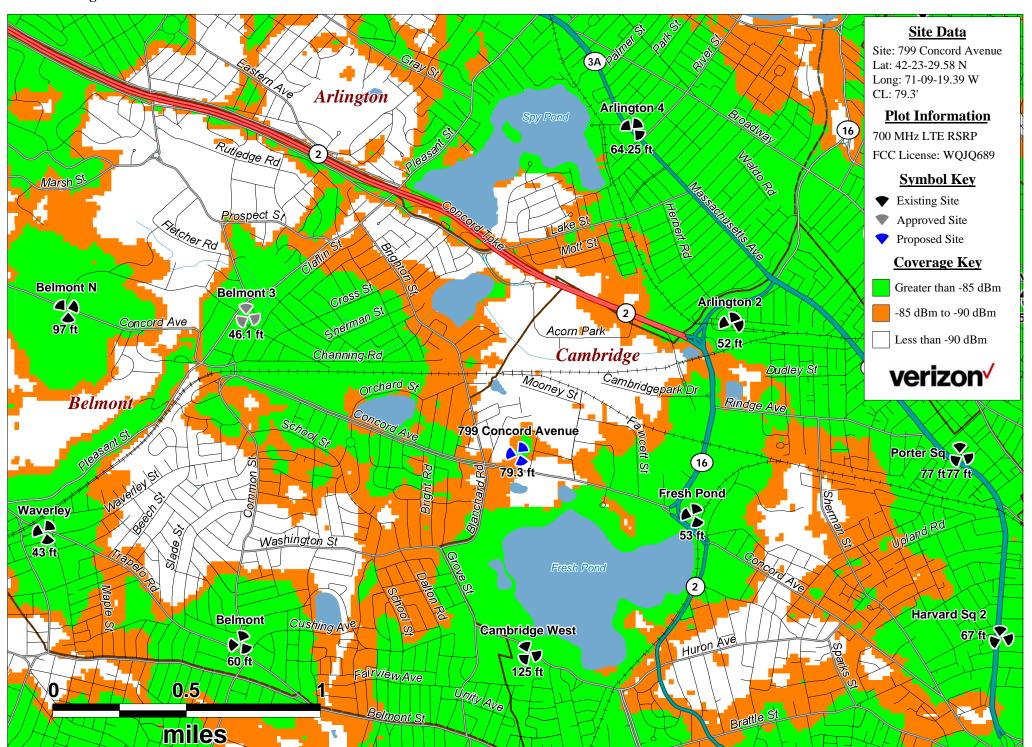
C Squared Systems, LLC

65 Dartmouth Drive

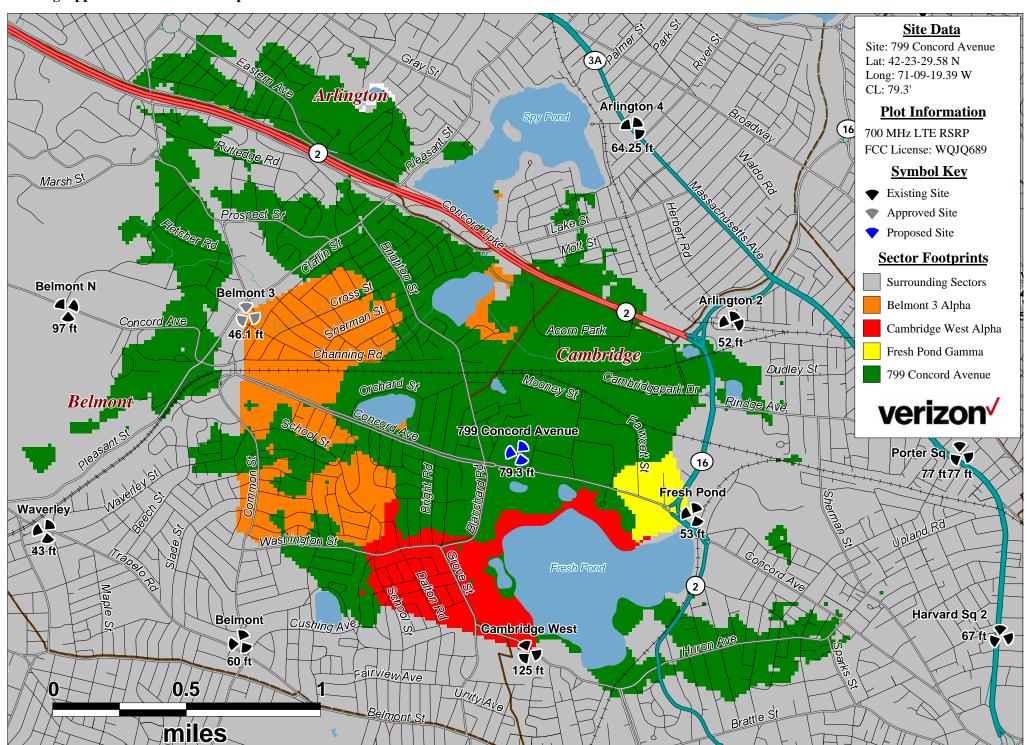
Auburn, NH 03032



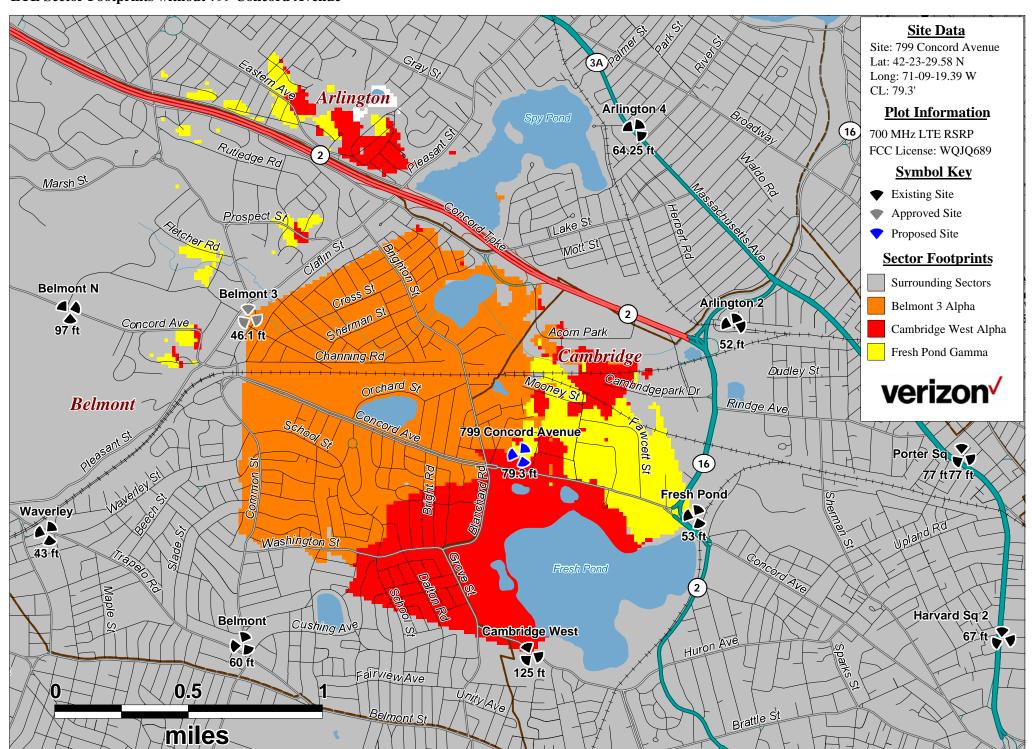
LTE Coverage without 799 Concord Avenue



Existing/Approved LTE Sector Footprints with 799 Concord Avenue



LTE Sector Footprints without 799 Concord Avenue





CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Floor, Cambridge, Massachusetts 02139

Telephone: 617 349 4683 TTY: 617 349 6112

E-mail: histcomm@cambridgema.gov URL: http://www.cambridgema.gov/Historic

William B. King, *Chair*, Bruce A. Irving, *Vice Chair*, Charles M. Sullivan, *Executive Director* William G. Barry, Jr., Robert G. Crocker, Chandra Harrington, Jo M. Solet, *Members*; Joseph V. Ferrara, Kyle Sheffield, Susannah Barton Tobin, *Alternates*

Jurisdiction Advice

To the Owner of Property at	799 Concord Avenu	ie	
The above-referenced property is sub reason of the status referenced below		ambridge Historical Commis	sion (CHC) by
Avon Hill Neight Half Crown – Ma Harvard Square C	Historic District 40C, City Code §2.78.050) porhood Conservation District arsh Neighborhood Conservatio		
Designated Lands Property is being	mark studied for designation:		
Preservation Rest _X_ Structure is fifty for a demoli	Ch. 2.78., Article III, and vario criction or Easement (as recorded y years or more old and therefore tion permit, if one is required by this page for definition of denot a designated historic propertion, but the property is listed on available for consultation, upof comments:	ed) re subject to CHC review of a y ISD. (City Code, Ch. 2.78, molition. No demolition perm y and the structure is less tha n the National Register of His on request.	Article II). See nit anticipated. n fifty years
The Board of Zoning Appeal advises Conservation District Commission re			hood
If a line indicating possible jurisdic Historical Commission to determin			of the
CHC staff initialsSLB	Da	mate March 13, 2017	_
Received by Uploaded to Er Relationship to project BZA 126		nte <u>March 13, 2017</u>	_
cc: Applicant Inspectional Services Comm	issioner		

Demolition Delay Ordinance and Application Information

The Demolition Delay Ordinance (Chapter 2.78, Article II of the Cambridge Municipal Code) was adopted by the City Council in 1979 to afford public review of demolition permit applications for potentially significant buildings. When the Historical Commission determines that a building is significant and should be preserved, demolition will be delayed for up to six months so that solutions can be sought to preserve the building indefinitely. The Ordinance covers all buildings over 50 years old, city-wide. The Historical Commission archives provide dates of construction for all properties in the City.

Demolition is defined in the ordinance as "the act of pulling down, destroying, removing or razing a building or commencing the work of total or substantial destruction with the intent of completing the same." The Inspectional Services Commissioner has provided further guidelines to outline what actions require a demolition permit. In addition to complete demolition of a building, the following actions may require a demolition permit,

- removal of a roof,
- removal of one side of a building,
- gutting of a building's interior to the point where exterior features (windows, etc.) are impacted, and
- removal of more than 25% of a structure.

Please contact the building inspector or a staff member of the Historical Commission if you have questions about whether a demolition permit is required for a particular project.

Demolition permit applications can be obtained from the Inspectional Services Department. The completed application should be submitted to the Historical Commission, where the staff will review the application. If the Executive Director of the Historical Commission makes an initial determination that the building is significant, a public hearing will be scheduled with Historical Commission. If the staff makes an initial determination that the building is not significant, the application is released for further review by the Building Commissioner.

More information about the demolition permit application procedures is available on the Historical Commission's web site or by calling or dropping by the Historical Commission office.

July 2003

Cambridge Historical Commission 831 Massachusetts Ave., 2nd Fl. Cambridge, MA 02139 Ph: 617/349-4683 or TTY: 617/349-6112 http://www.cambridgema.gov/Historic

267A-163^{267A}-165^{267A}-170 267A-240 267A-263267A-204 267A-265 61 Loomis St63 Loomis St 267A-237 267A-209 267A-266267A-238 267C-92 59 Loomis St 267C-66 267A-172 267C-55 South Normandy Ave 43 Loomis St 267C-3267C-60267C-61 21 Loomis St 267A-175 267B-207 267B-206267C-50 60 Loomis St 267A-251 267A-177 11 Loomis St Loomis St 44 Loomis St 267B-203 98 Griswold St 267C-89 267A-250 32 Loomis St 46 Loomis St 267B-190 20 Loomis St 267A-221 267C-53267C-88 267C-56267C-65 267C-91 267A-253 267B-204 267A-241 88 Griswold S 267C-46 267B-192 267B-187 267A-252 267B-217 S 84 Griswold St 267C-86 44 Sunset Rd 40 Loomis St 267B-193 267B-98 267B-195 267B-218 267C-87 ø 267B-173 267B-194 267C-70 267B-184 795 Concord Ave 267B-12 267B-174 767 Concord Ave 267B-197 267B-181 267B-175 267B-132 767-C Concord Ave Rafferty Park 267D-322 66 Criswold St 267C-71 267B-198 267B-182267B-180 267B-220 267D-329 27 Sunset Rd 55 Griswold \$ 45 Spinetti PL 267B-219 267B-183267B-88 56 Ciswold St 42 Spinelli Pl 267B-202 267B-199 37 Spinelli/PI 267D-333 52 Griswold St 267D-332 267B-50 267B-200 267B-176 35/SpineIII PI Sunset 267B-143 267B-47 267D-334 267B-145 267B-18 36 Spinelli P 40 Griswold St 267D-303 267B-209 30 Spinelli Pl 267B-147 267D-319 267B-222 27 Spinelli P Griswold St 267B-211a 267B-221 267D-339 24 Griswold St 19 Griswold \$1267B-2120 765-R Concord Ave 267B-37 20 Griswold St 799 Concord Ave 267B-177 16 Griswold 267D-340 267B-158 267D-305 267B-216 267B-16 799 Concord Av 765 Concord Ave 4 Grswotd St 733 Concord Ave 267B-164 267D-282 755 Concord Ave 777 Concord Ave 267D-289 267D-299 267D-315 773 Concord Ave 267D-259 267D-284 267D-300 Concord Ave 745 Concord Ave 267D-316 735 Concord Ave Fresh Pond Reservation Rd Blanchard F 266-32 Thomas P. O'Neill, Jr. Municipal Golf Course

799 Concord Ave

143

267D-289 LEO, NICHOLAS A., TR. THE CONCORD AVE REALTY TRUST 517 CONCORD AVE. CAMBRIDGE, MA 02138

267D-289 BETHUNE, CRISTINA M. 773 CONCORD AVE., #405 CAMBRIDGE, MA 02138

267D-289 ROLLI, SIMONA 458 EXCHANGE AVENUE GAITHERSBURG, MD 20878

267D-289 FRESH POND GREENWAY, LLC. 517 CONCORD AVE CAMBRIDGE , MA 02138

267D-289 FRESH POND GREENWAY, LLC. 517 CONCORD AVE CAMBRIDGE, MA 02139

267D-289 IZU, ALLEN E. & TONIA IZU 773 CONCORD AVE. UNIT#204 CAMBRIDGE, MA 02138

267D-289 ROY, BIDYUT KUMAR & SANTONA RANI ROY 773 CONCORD AVE. UNIT#201 CAMBRIDGE, MA 02138

267D-289 LOBOSCO, JOHN J. & MARGARET O'BRIEN 773 CONCORD AVE. UNIT 105 CAMBRIDGE, MA 02138

267D-322/266-32 CITY OF CAMBRIDGE C/O LOUIS DEPASQUALE CITY MANAGER

267B-132 MADDEN, SHERLY A. 70 GRISWOLD ST CAMBRIDGE, MA 02138 267D-289 SZARMACH, PAUL E. & KATHERINE O'BRIEN O'KEEFFE 773 CONCORD AVE. UNIT#406 CAMBRIDGE, MA 02138

267D-289 THAKORE, KOMAL & ROMIT THAKORE 773 CONCORD AVE. UNIT#403 CAMBRIDGE, MA 02138

267D-289 O'CONNOR, CORNELIA, TRUSTEE O'CONNOR REALTY TRUST 773 CONCORD AVE., #306 CAMBRIDGE, MA 02138

267D-289 ALLY, SAID A. & SADA SALUM 773 CONCORD AVE. UNIT#303 CAMBRIDGE, MA 02138

267D-289 HARTLEY, DOUGLAS 773 CONCORD AVE., #206 CAMBRIDGE, MA 02138

267D-289 LE SAGE, DAVID & ANDREA TSAI 773 CONCORD AVE., #203 CAMBRIDGE, MA 02138

267D-289 KANG, JANE M. 773 CONCORD AVE. UNIT# 107 CAMBRIDGE, MA 02138

267D-289 WANG, XIAOEN & BIANLING LIU 773 CONCORD AVE., #104 CAMBRIDGE, MA 02138

266-32 CAMBRIDGE CITY OF RECREATION DEPT 51 INMAN ST CAMBRIDGE, MA 02139

267B-143 EVANS, MARTIN G. & NANCY R. EVANS 48 GRISWOLD ST CAMBRIDGE, MA 02138 ROBINSON + COLE, LLP C/O TIMOTHY C. TWARDOWSKI, ESQ. ONE BOSTON PLACE – 25TH FL. BOSTON, MA 02108

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS C/O ELLEN DALMUS 118 FLANDERS ROAD WESTBOROUGH, MA 01581

267D-289
COLUCCI, ROBERT D. & KATHRYN M. COLUCCI
P.O BX 808
NEWTOWN, CT 06470

267D-289 DOLS, BRIAN M. 2901 BARTON SKWY #2204 AUSTIN, TX 78746

267D-289 FOK, ELISE HOI WAN 773 CONCORD AVE., #205 CAMBRIDGE, MA 02138

267D-289 SANCHEZ, JOSEFA LOPEZ & JAQUIN LOPEZ VERAZA 773 CONCORD AVE. UNIT#202 CAMBRIDGE, MA 02138

267D-289 SCOTT, MICHELE N. 773 CONCORD AVE., #106 CAMBRIDGE, MA 02138

267D-289 KATZ, WILLIAM H. 773 CONCORD AVE. UNIT#103 CAMBRIDGE, MA 02138

267D-322/266-32 CITY OF CAMBRIDGE C/O NANCY GLOWA CITY SOLICITOR

267B-145 MCDONOUGH, MARY T. & JANET E. GRIFFIN 44 GRISWOLD ST CAMBRIDGE, MA 02138 267B-147 RANAGAN, SCOTT P.O. BOX 445 CHELMSFORD, MA 01824

267B-158

KOSKO, JOHN J. & KAREN N. KOSKO

267B-177 SULLIVAN, ROBERT 22 GRISWOLD STREET CAMBRIDGE, MA 02138

16 GRISWOLD STREET

CAMBRIDGE, MA 02138

267B-193 CORTIZAS, ANTHONY P., JR. 84 GRISWOLD ST CAMBRIDGE, MA 02138

267B-200 MULLEN, FRANCIS T. & BARBARA CLARK MULLEN 52 GRISWOLD CAMBRIDGE, MA 02138

267B-219 SACK, HOM KWONG 64 GRISWOLD ST CAMBRIDGE, MA 02138

267C-70
WEST CAMBRIDGE SCIENCE PARK, LLC
38 PEQUOSSETTE RD
BELMONT, MA 02478

267D-259 TRUELOVE, JOHN M., TR. OF THE 769 CONCORD AVE REALTY TR., 769 CONCORD AVE CAMBRIDGE, MA 02138

267D-282 HARTUNIAN, BYRON V. & MARGARET C. NICHOLS 777 CONCORD AVE CAMBRIDGE, MA 02138

267D-282 TCHERKEZIAN, SARKIS & TANYA TCHERKEZIAN 777 CONCORD AVE., UNIT #106 CAMBRIDGE, MA 02138 267B-147 HOM, VINCENT M. & WING YEE HOM 36 GRISWOLD ST CAMBRIDGE, MA 02138

267B-161 ABBASI, SALMAN 1-3 GRISWOLD ST CAMBRIDGE, MA 02138

267B-191 GRIFFIN, CLAIRE E. A LIFE ESTATE 92 GRISWOLD ST CAMBRIDGE, MA 02138

267B-194 IANNOTTI, MICHAEL 80 GRISWOLD ST CAMBRIDGE, MA 02138

267B-211 DANILIUK, MICHAEL & RENEE DANILIUK 30 GRISWOLD ST CAMBRIDGE, MA 02138

267B-220 XIONG, DAVID & LING LI 66 GRISWOLD CAMBRIDGE, MA 02138

267C-86 AMOROSO, JOSEPH A. & FLORA G. AMOROSO LIFE ESTATE 40 LOOMIS ST CAMBRIDGE, MA 02138

267D-282 DELEO, JOSEPH F. 777 CONCORD AVE., UNIT #101 CAMBRIDGE, MA 02138

267D-282 YOUNGWIRTH, STEPHEN A 400 STUART ST. #22D BOSTON, MA 02116

267D-282 MUGNIER, RENE & JESSICA L. FEWKES 777 CONCORD AVE., UNIT #201 CAMBRIDGE, MA 02138 267B-147 YUEN, MAN K. & KAREN H. CHAN 34 GRISWOLD ST., #3 CAMBRIDGE, MA 02138

267B-164
IGNAZIO, JOSEPH L. & MARY J. IGNAZIO,
A LIFE ESTATE
76 WILSON ROAD
BEDFORD, MA 01730

267B-192 ROSA, LOUIS C. 88 GRISWOLD ST CAMBRIDGE, MA 02138

267B-199 SQUIRES, ANNE C. 56 GRISWOLD ST. CAMBRIDGE, MA 02138

267B-212 GINSBERG, VICTORIA M. 24-26 GRISWOLD ST CAMBRIDGE, MA 02138

267C-44 MOSCARDINI, LORRAINE & LEANDERS H. SMITH 14 LOOMIS ST. CAMBRIDGE, MA 02138

267C-87 AMOROSO, PATRICIA L. 40 LOOMIS STREET CAMBRIDGE, MA 02138

267D-282 CIRAFICE, RICHARD P., TRUSTEE OF SYDKAL REALTY TRUST. 777 CONCORD AVE., UNIT #102 CAMBRIDGE, MA 02138

267D-282
DAUGHTERS OF MARY OF THE IMMACULATE
CONCEPTION, INC. THE
799 CONCORD AVE.
CAMBRIDGE, MA 02138

267D-282 FORSTER, JOHN T.A. P. O. BOX 48 M.I.T. BRANCH P.O. CAMBRIDGE, MA 02139 267D-282 FORSTER, T.A. JOHN P.O.BOX 48 M.I.T. BRANCH P.O. CAMBRIDGE, MA 02139

267D-282 777 CONCORD AVE UNIT 206, LLC. 777 CONCORD AVE., UNIT#206 CAMBRIDGE, MA 02138

267D-282 SMITH, JUDITH E. & DIRAN S. ZAHIGIAN 777 CONCORD AVE., #302 CAMBRIDGE, MA 02138

267D-340
THE FAYERWEATHER STREET SCHOOL
765 CONCORD AVE
CAMBRIDGE, MA 02138

267D-329-332 WEST CAMBRIDGE SCIENCE PARK, LLC 38 PEQUOSSETTE RD BELMONT, MA 02478

267C-46
RENN, ROBERT D., NANCY D. RENN &
MELISSA LEIGH RENN
20 LOOMIS ST. UNIT#4
CAMBRIDGE, MA 02138

267D-282 STORROW COMPANY, INC. 777 CONCORD AVE., UNIT #205 CAMBRIDGE, MA 02138

267D-282 ELECTROMAGNETICS ACADEMY, INC C/O J.A. KONG P.O. BOX 425517, KENDALL SQ. CAMBRIDGE, MA 02142

267D-282 FULLER, MICHAEL J., TRUSTEE THE MICHAEL J. FULLER TRUST 68 BRIDGE ST LEXINGTON, MA 02421

267C-46 YANG, ROBERT Y. & KATHERINE S. YANG 20 LOOMIS ST., #2 CAMBRIDGE, MA 02138

267D-289 MCAULIFFE, WILLIAM J. 773 CONCORD AVE., #102 CAMBRIDGE, MA 02138

267C-46 SEEHALE, DANA & ANDREW J. CROTEAU 20 LOOMIS ST., #3 CAMBRIDGE, MA 02138 267B-129 RAFFERTY, JAMES V. 74 GRISWOLD ST CAMBRIDGE, MA 02138

267D-282 LYDIAN CENTER, LLC 777 CONCORD AVE. SUITE 301 CAMBRIDGE, MA 02138

267D-303 SHIRLEY SLOANE 125 COOLIDGE AVE #506 WATERTOWN, MA 02472

267D-339 SANCTA MARIA HOSPITAL 799 CONCORD AVE CAMBRIDGE, MA 02138

267C-46 COSTELLO, MICHAEL C. 20 LOOMIS ST. UNIT#1 CAMBRIDGE, MA 02138

267D-289 NAMGYAL, JIGMEY & KELSANG LHAMO 773 CONCORD AVE., #402 CAMBRIDGE, MA 02138



City of Cambridge

MASSACHUSETTS



Bk: 65163 Pg: 213 Doc: DECIS Page: 1 of 4 04/02/2015 03:36 PM

BOARD OF ZONING APPEAL

831 Mass Avenue, Cambridge, MA. (617) 349-6100

RE-HEARING

OFFICE OF THE CITY CLERK AMBRIDGE MASSACHUSETTS

CASE NO:

10518

LOCATION:

799 Concord Avenue

Office -1 Zone/ AOD

Cambridge, MA

PETITIONER:

Bell Atlantic Mobile of Massachusetts Corporation, LTD.

D/B/A Verizon Wireless – C/o Timothy C. Twardowski, Esq.

PETITION:

Special Permit: To reconsider the petitioner's application for a special

permit in light of a revised design and/or plan to locate mobile

communications antennas on the roof of the existing building and place

equipment inside an existing ground level garage space.

VIOLATION:

Art. 4.000, Sec. 4.32.G.1 (Footnote 49) (Telecommunication Facility).

Art. 10.000, Sec. 10.40 (Special Permit).

DATE OF PUBLIC NOTICE:

February 12 & 19, 2015

MARGINAL REFERENCE REQUESTED

(357 409

DATE OF PUBLIC HEARING:

February 26, 2015

00k 10521 P

MEMBERS OF THE BOARD:

CONSTANTINE ALEXANDER – CHAIR

TIMOTHY HUGHES – VICE-CHAIR

BRENDAN SULLIVAN THOMAS SCOTT

JANET O. GREEN

V

ASSOCIATE MEMBERS:

DOUGLAS MYERS

SLATER W. ANDERSON

ANDREA A. HICKEY

ALISON HAMMER

JIM MONTEVERDE

GEORGE S. BEST

LAURA WERNICK

Members of the Board of Zoning Appeal heard testimony and viewed materials submitted regarding the above request for relief from the requirements of the Cambridge Zoning Ordinance. The Board is familiar with the location of the petitioner's property, the layout and other characteristics as well as the surrounding district.

Bk: 65163 Pg: 214

Case No.

10518

Location:

799 Concord Avenue

Petitioner:

Bell Atlantic Mobile of MA Corp. Ltd. - D/B/A Verizon Wireless

On February 26, 2015, Petitioner's attorney Timothy Twardowski appeared before the Board of Zoning Appeal requesting a special permit in order to locate mobile communications antennas on the roof of the existing building and place equipment inside an existing ground level garage space. The Petitioner requested relief from Article 4, Section 4.32.G.1of the Cambridge Zoning Ordinance ("Ordinance"). The Petitioner submitted application materials including information about the project, plans, and photographs.

Mr. Twardowski stated that the case had been heard and denied in 2013. He stated that it had been appealed and was now being reheard upon a remand from the Federal District Court. He stated that the site had been redesigned so as to place all antennas behind a screen wall on the roof, making them not visible to the public.

Several neighbors spoke or wrote in opposition to the proposal based on negative effects to their businesses, which included schools and medical facilities, and to their property values due to actual or perceived health and/or environmental risks from radio frequency radiation. Some neighbors expressed concern about adverse health effects on students attending schools in the immediate neighborhood. The Chair explained that there was a federal law which had limited the Board's ability to deny an application based upon the health and environmental effects of the Petitioner's installation.

After discussion, the Chair moved that the Board grant the special permit for relief in order to locate mobile communications antennas on the roof of the existing building and place equipment inside an existing ground level garage space based upon the finding that traffic generated or patterns of access or egress resulting from the installation would not cause congestion, hazard, or substantial change in established neighborhood character. The Chair moved that the Board find that the continued operation of, and development of adjacent uses, would not be adversely affected by the nature of the proposed use. The Chair moved that the Board find that no nuisance or hazard would be created to the detriment of the health, safety, and/or welfare of the occupant of the proposed use or the citizens of the city. The Chair moved that the Board find that the proposed use would not impair the integrity of the district or adjoining districts or otherwise derogate from the intent and purpose of the Ordinance. The Chair moved that the Board grant the special permit on the following conditions:

- 1. that the work proceed in accordance with and be entirely consistent with photo simulations, architectural drawings, and engineering plans submitted by the petitioner, as initialed by the Chair,
- 2. that should the petitioner discontinue telecom services at this facility, the equipment be promptly removed and the building be restored to its prior condition to the extent reasonable and practical,
- 3. that, inasmuch as the health effects of the transmission of electromagnetic energy waves is a matter of ongoing societal concern and scientific study, the special permit is also subject to the following conditions:
 - A. that the petitioner shall file with the Inspectional Services Department each report it files with the federal authorities regarding the electromagnetic energy waves emissions emanating from all the petitioner's equipment on the site. Each such report shall be filed with the Inspectional Services Department no later than ten business days after the report has been filed with the federal authorities. Failure to timely file any such report with the Inspectional Services Department shall ipso facto terminate the special permit granted here,
 - B. that in the event that at any time federal authorities notify the petitioner that its equipment on the site, including, but not limited to the special permit granted here, fails to comply with the requirements of law or governmental regulation, whether with regard to the emissions of electromagnetic energy waves or otherwise, the petitioner, within ten business days of receipt of such notification of such failure shall file with the Inspectional Services Department a report disclosing in reasonable detail that such failure has occurred and the basis for such claimed failure. The special permit granted here shall ipso facto terminate if any of the petitioner's federal licenses is or are suspended, revoked, or terminated.
 - C. that to the extent that a special permit has terminated pursuant to the foregoing paragraphs A and B, the petitioner may apply to this Board for a new special permit provided that the public notice concerning such application discloses in reasonable detail that the application has been filed because of a termination of the special permit pursuant to paragraphs A or B above. Any such new application shall not be deemed a repetitive petition and therefore shall not be subjected to the two-year period during which repetitive petitions may not be filed.
 - D. that prior to the installation of the equipment, the petitioner shall file with the Inspectional Services Department a sworn Affidavit of the person in charge of the installation of equipment by the petitioner with a geographical area that includes Cambridge, stating that A, he or she has such responsibility; and B, that the equipment is being installed pursuant to the special permit granted here, will comply with all federal safety rules and will be situated and maintained in locations with

appropriate barricades and other protections, such that individuals, including nearby residents and occupants of nearby structures, will be sufficiently protected from excessive radio frequency radiation under federal law.

4. that the special permit granted here shall continue for two years and that after two years should the petitioner want to continue to use this facility, it must reapply for the special permit. At that point the Board and the public will have the ability to take into account any new developments, either scientifically or legislatively, with regard to telecommunications facilities.

The five member Board voted unanimously in favor of granting the special permit (Alexander, Hughes, Sullivan, Scott, and Green) as conditioned. Therefore, the special permit is granted.

The Board based its decision upon all the information presented, and upon the following findings:

- 1) The meeting of the requirements of the Ordinance;
- 2) Traffic generated or patterns of access or egress would not cause congestion, hazard, or substantial change in the established neighborhood character;
- 3) The continued operation of or the development of adjacent uses as permitted in the Ordinance would not be adversely affected by the nature of the proposed uses;
- 4) Nuisance or hazard would not be created to the detriment of the health, safety and /or welfare of the occupants of the proposed use;
- 5) The proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the Ordinance, and in fact would be a significant improvement to the structure and benefit the neighborhood, and;
- 6) The new use or building construction is not inconsistent with the Urban Design Objectives set forth in Section 19.30 of the Cambridge Zoning Ordinance.

Constantine Alexander, Chair

Attest: A true and correct copy of decision	filed with the offices of the City Clerk
Attest: A true and correct copy of decision and Planning Board on	Manie Hacheco, Clerk.
Twenty days have elapsed since the filing of	f this decision
I wenty days have elapsed since the filling of	i this decision.
No appeal has been filed	•
Appeal has been filed and dismissed or deni	
Date: 1, 2015	Donna P. Kapzy City Clerk.
1.	

CITY OF CAMBRIDGE, MASSACHUSETTS BOARD OF ZONING APPEAL

STATEMENT IN SUPPORT OF APPLICATION FOR SPECIAL PERMIT

Applicant:

Cellco Partnership d/b/a Verizon Wireless

Property:

799 Concord Avenue (Map and Parcel 267D-339)

Zoning:

Office 1 (O-1), Alewife Overlay District (AOD3), Parkway Overlay District,

and Concord Avenue Parkway Subdistrict

Proposed Use: Mobile Communications Facility

BACKGROUND

The Applicant, Cellco Partnership d/b/a Verizon Wireless ("Applicant" or "Verizon Wireless"), is licensed by the Federal Communications Commission ("FCC") to provide cellular mobile radiotelephone service within the market area that includes the City of Cambridge. On March 11, 2015, the Board of Zoning Appeal (the "BZA") granted a special permit to Verizon Wireless for the installation, use, and operation of a mobile communications facility at 799 Concord Avenue (see BZA Case No. 10518). A copy of BZA's decision in Case No. 10518—hereinafter referred to as the "2015 Special Permit"—is attached as **Exhibit A**.

Condition #4 of the 2015 Special Permit states that "the special permit granted here shall continue for two years and that after two years should the petitioner want to continue to use the facility, it must reapply for the special permit." In light of this condition, and because Verizon Wireless desires to continue to operate this facility, Verizon Wireless—with full reservation of its rights under applicable federal, state and local law, including particularly and without limitation, Section 6409(a) of the federal Middle Class Tax Relief and Jobs Creation Act of 2012 (the "Spectrum Act")—seeks a special permit under Section 4.32.g.1 and associated Footnote 49 of the Zoning Ordinance of the City of Cambridge (the "Ordinance") authorizing the continued use and operation of the existing mobile communications facility (the "Existing Facility") at 799 Concord Avenue (the "Property"). Verizon Wireless further requests that the special permit be granted without limitation as to the effective period of the special permit, consistent with the usual practice of the BZA on building mounted mobile communications facilities.

As shown on the as-built drawings titled "Belmont 2 (Sancta Maria), 799 Concord Ave. Cambridge, MA 02138," dated January 13, 2017, by Dewberry Engineers Inc. (the "As-Built Drawings") (see **Exhibit B**) and the photograph package titled "As-Built Photo Package – Site Name: Belmont 2 (Sancta Maria)," dated December 8, 2016, by Dewberry Engineers Inc. (the "Photographs") (see **Exhibit C**), the Property is improved with a six-story brick and masonry structure that steps down to two stories toward the rear of the Property and is currently used as a hospital facility. The Existing Facility is a personal wireless services facility within the meaning of the Federal Telecommunications Act ("TCA"), 47 U.S.C. § 332(c)(7)(C)(ii) and a mobile communications facility within the meaning of Section 4.32.g.1 and accompanying Footnote 49 of the Ordinance.

DESCRIPTION OF EXISTING MOBILE COMMUNICATIONS FACILITY

As depicted in the As-Built Drawings submitted with this application, the Existing Facility contains three arrays of four panel antennas each, for a total of twelve panel antennas, on the roof of the six-story building situated on the Property. One antenna array is mounted on the south façade of the existing rooftop penthouse located at the southwest corner of the building, and a second array of antennas is mounted on the west façade of the same penthouse. The third antenna array is mounted on the north façade of the existing rooftop penthouse located on the northeast corner of the building. As shown on the As-Built Drawings and the Photographs, each antenna array is enclosed by a brick-faced fiberglass enclosure that matches the façade of host penthouse, completely concealing the antennas from view. An emergency power generator and communications equipment cabinet are located inside the ground level garage on the west side of the building, and two HVAC condensers are situated on the roof of the garage. Cables connecting the communications equipment in the garage to the antennas on the roof were routed along the west and north exterior walls and are enclosed within cable trays that were painted to match the existing building façade. A GPS antenna is mounted on the roof of the garage.

This application does not request any changes to the Existing Facility.

SATISFACTION OF SPECIAL PERMIT STANDARDS FOR MOBILE COMMUNICATIONS FACILITIES UNDER ORDINANCE SECTION 4.32.g.1

Pursuant to Section 4.32.g.1 of the Ordinance, mobile communications facilities in the Office-1 District require a special permit issued by the BZA. In reviewing a special permit application for a mobile communications facility, the BZA applies the standards set forth at Footnote 49 to the Table of Use Regulations.¹ The following analysis demonstrates that continued operation of the Existing Facility meets each of these standards.²

1. The scope of or limitations imposed by any license secured from any state or federal agency having jurisdiction over such matters.

As documented at **Exhibit D**, Verizon Wireless is licensed by the Federal Communications Commission ("FCC") to provide cellular mobile radiotelephone service within the market area that includes the City of Cambridge. There are no limitations imposed on Verizon Wireless' licenses that would prevent it from continuing to provide service via the Existing Facility.

2. The extent to which the visual impact of the various elements of the proposed facility is minimized: (1) through the use of existing mechanical elements on a building's roof or other features of the building as support and background; (2) through the use of materials that in texture and color

¹ Footnote 49 is codified as Section 4.40.49 of the Ordinance.

¹

² In providing information addressing the standards set forth in the Ordinance that concern the wireless communications use, Verizon Wireless does not concede, and expressly reserves all of its rights with respect to, any attempt by the City to exercise jurisdiction over matters concerning Verizon Wireless' license or the technical performance of the proposed site or its network.

blend with the materials to which the facilities are attached; or (3) other effective means to reduce the visual impact of the facility from off the site.

As shown in the As-Built Drawings and Photographs submitted with this application, the antenna arrays are mounted on an existing building and are enclosed by a brick-faced fiberglass enclosure that completely conceals the antennas from view.

Associated communications and power equipment, as well as the emergency generator for use as a backup power supply, are located inside the existing ground level garage space. Condensers for the air conditioning in the equipment room are located on the roof of the garage.

3. Where it is proposed to erect such a facility in any residential zoning district, the extent to which there is a demonstrated public need for the facility at the proposed locations, the existence of alternative, functionally suitable sites in nonresidential locations, the character of the prevailing uses in the area, and the prevalence of other, existing mechanical systems and equipment carried on or above the roof of nearby structures. The Board of Zoning Appeal shall grant a special permit to erect such a facility in a residential zoning district only upon a finding that nonresidential uses predominate in the vicinity of the proposed facility's location and that the telecommunication facility is not inconsistent with the character that does prevail in the surrounding neighborhood.

Not applicable. The Existing Facility is not located in a residential zoning district.

SATISFACTION OF SPECIAL PERMIT STANDARDS UNDER SECTION 10.43 OF THE ORDINANCE

Section 10.43 of the Ordinance states that special permits "will normally be granted where specific provisions of this Ordinance are met, except when particulars of the location or use, not generally true of the district or of the uses permitted in it, would cause granting of such permit to be to the detriment of the public interest." The following analysis of Section 10.43 special permit standards demonstrates that the Existing Facility is not detrimental to the public interest.

1. The requirements of this Ordinance can or will be met for the following reasons:

The Existing Facility is authorized by the 2015 Special Permit, which the BZA approved by a unanimous (5-0) vote on February 26, 2015. The Existing Facility was installed in 2015 and has operated continuously since then. Lesli Johnson, Records Coordinator for the Inspectional Services Department ("ISD"), confirmed via telephone call on March 2, 2017 that the City has not received any complaints about the Existing Facility. As demonstrated by the documents and information provided with this application, and as will be further demonstrated at the hearing on this matter, the Existing Facility meets the requirements of the Ordinance for mobile communications facilities.

2. Traffic generated or patterns of access or egress would not cause congestion, hazard, or substantial change in established neighborhood character for the following reasons:

The Existing Facility creates virtually no traffic demand. The Existing Facility only requires approximately one or two vehicle trips per month by a standard passenger vehicle during normal business hours for routine facility maintenance.

3. The continued operation of or the development of adjacent uses as permitted in the Zoning Ordinance would not be adversely affected by the nature of the proposed use for the following reasons:

The Existing Facility has no adverse effect on the operation or development of adjacent uses. ISD records indicate that the existing facility was installed in 2015 and has operated continuously since then. The City has received no complaints about the Existing Facility since it was and installed. The Existing Facility emits no light, odor, dust, or glare and generates no unusual noise or other adverse impacts.

4. A nuisance or hazard would not be created to the detriment of the health, safety and/or welfare of the occupant of the proposed use or the citizens of the City for the following reasons:

As noted above, ISD records indicate that there have been no complaints about the existing facility since it was installed in 2015, and Verizon Wireless is likewise not aware of any complaints during that time. The Existing Facility generates no traffic other than an occasional single vehicle trip for periodic maintenance visits. It has no negative impacts on surrounding properties or the City of Cambridge. The Existing Facility requires no water or sewer service, emits no light, odor, dust, or glare, and generates no unusual noise or other adverse impacts. The Existing Facility is unoccupied, with no employees or customers. The availability of reliable wireless communications enhances the health, safety and welfare of the community.

5. The proposed use would not impair the integrity of the district or adjoining district, or otherwise derogate from the intent and purpose of this Ordinance for the following reasons:

The Existing Facility is a passive use involving no on-site employees, and has been designed, constructed, and operated to avoid any impacts on nearby properties, both inside and outside the zoning district in which it is located. The improved wireless service it provides enhances public safety and is a benefit to business and institutional uses located in the area and to residents, employees, visitors and others travelling to Sancta Maria hospital or who are in the area for other reasons. Wireless communications is increasingly relied on by civil defense and other safety officers as well as the public in times of crisis, natural disaster, inclement weather, and similar circumstances. It also provides a convenience to residents, and is an attractive feature to businesses. It is increasingly used not just for voice service but to transfer data using mobile devices. By providing these services, the Existing Facility promotes the health, safety, and

general welfare of the City's residents and visitors consistent with the intent and purpose of the Zoning Ordinance.

For all the above reasons, the Existing Facility is in harmony with the general purpose of the Zoning Ordinance as required by G.L. c. 40A, §9, and complies with its provisions, including the specific requirements of Section 4.32.g.1 and Footnote 49 concerning mobile communications facilities.

CONCLUSION

For all of the foregoing reasons, and with full reservation of its rights under applicable federal, state and local law, including particularly and without limitation the Spectrum Act, Verizon Wireless respectfully requests that the Board of Zoning Appeal, acting as the special permit granting authority, renew the special permit pursuant to Section 4.32.g.1 of the Ordinance, as well as such other relief as may be necessary or appropriate, to allow the continued use and operation of the Existing Facility described in this application and documented in the provided As-Built plan and photographs. Verizon Wireless further requests that the renewed approval be granted without limitation as to the effective period of the special permit.

Respectfully submitted, Verizon Wireless By its attorney,

Timothy C. Twardowski, Esq.

Robinson & Cole LLP

of lu

One Boston Place, 25th Floor

Boston, MA 02108 (617) 557-5959

Dated: March 2, 2017

Application Of Cellco Partnership d/b/a Verizon Wireless for a Special Permit for a Mobile Communications Facility 799 Concord Avenue

Exhibit A: 2015 Special Permit

Exhibit B: As-Build Drawings

Exhibit C: Photographs

Exhibit D: FCC License

Exhibit A

City of Cambridge

MASSACHUSETTS



Bk: 65163 Pg: 213 Doo: DECIS Page: 1 of 4 04/02/2015 03:36 PM

BOARD OF ZONING APPEAL

831 Mass Avenue, Cambridge, MA. (617) 349-6100

RE-HEARING

NFFICE OF THE CITY CLERK MBRIBGE, MASSACHUSETTS

CASE NO:

10518

LOCATION:

799 Concord Avenue

Cambridge, MA

Office -1 Zone/ AOD

PETITIONER:

Bell Atlantic Mobile of Massachusetts Corporation, LTD.

D/B/A Verizon Wireless – C/o Timothy C. Twardowski, Esq.

PETITION:

Special Permit: To reconsider the petitioner's application for a special

permit in light of a revised design and/or plan to locate mobile

communications antennas on the roof of the existing building and place

equipment inside an existing ground level garage space.

VIOLATION:

Art. 4.000, Sec. 4.32.G.1 (Footnote 49) (Telecommunication Facility).

Art. 10.000, Sec. 10.40 (Special Permit).

DATE OF PUBLIC NOTICE:

February 12 & 19, 2015

DATE OF PUBLIC HEARING:

February 26, 2015

MARGINAL REFERENCE REQUESTED

(257 YV)

BOOK (057 PAGE 18

MEMBERS OF THE BOARD:

CONSTANTINE ALEXANDER – CHAIR TIMOTHY HUGHES – VICE-CHAIR

BRENDAN SULLIVAN THOMAS SCOTT JANET O. GREEN

ASSOCIATE MEMBERS:

DOUGLAS MYERS

SLATER W. ANDERSON ANDREA A. HICKEY ALISON HAMMER JIM MONTEVERDE GEORGE S. BEST LAURA WERNICK

Members of the Board of Zoning Appeal heard testimony and viewed materials submitted regarding the above request for relief from the requirements of the Cambridge Zoning Ordinance. The Board is familiar with the location of the petitioner's property, the layout and other characteristics as well as the surrounding district.

Bk: 65163 Pg: 214

Case No.

10518

Location:

799 Concord Avenue

Petitioner:

Bell Atlantic Mobile of MA Corp. Ltd. – D/B/A Verizon Wireless

On February 26, 2015, Petitioner's attorney Timothy Twardowski appeared before the Board of Zoning Appeal requesting a special permit in order to locate mobile communications antennas on the roof of the existing building and place equipment inside an existing ground level garage space. The Petitioner requested relief from Article 4, Section 4.32.G.1of the Cambridge Zoning Ordinance ("Ordinance"). The Petitioner submitted application materials including information about the project, plans, and photographs.

Mr. Twardowski stated that the case had been heard and denied in 2013. He stated that it had been appealed and was now being reheard upon a remand from the Federal District Court. He stated that the site had been redesigned so as to place all antennas behind a screen wall on the roof, making them not visible to the public.

Several neighbors spoke or wrote in opposition to the proposal based on negative effects to their businesses, which included schools and medical facilities, and to their property values due to actual or perceived health and/or environmental risks from radio frequency radiation. Some neighbors expressed concern about adverse health effects on students attending schools in the immediate neighborhood. The Chair explained that there was a federal law which had limited the Board's ability to deny an application based upon the health and environmental effects of the Petitioner's installation.

After discussion, the Chair moved that the Board grant the special permit for relief in order to locate mobile communications antennas on the roof of the existing building and place equipment inside an existing ground level garage space based upon the finding that traffic generated or patterns of access or egress resulting from the installation would not cause congestion, hazard, or substantial change in established neighborhood character. The Chair moved that the Board find that the continued operation of, and development of adjacent uses, would not be adversely affected by the nature of the proposed use. The Chair moved that the Board find that no nuisance or hazard would be created to the detriment of the health, safety, and/or welfare of the occupant of the proposed use or the citizens of the city. The Chair moved that the Board find that the proposed use would not impair the integrity of the district or adjoining districts or otherwise derogate from the intent and purpose of the Ordinance. The Chair moved that the Board grant the special permit on the following conditions:

- 1. that the work proceed in accordance with and be entirely consistent with photo simulations, architectural drawings, and engineering plans submitted by the petitioner, as initialed by the Chair,
- 2. that should the petitioner discontinue telecom services at this facility, the equipment be promptly removed and the building be restored to its prior condition to the extent reasonable and practical,
- 3. that, inasmuch as the health effects of the transmission of electromagnetic energy waves is a matter of ongoing societal concern and scientific study, the special permit is also subject to the following conditions:
 - A. that the petitioner shall file with the Inspectional Services Department each report it files with the federal authorities regarding the electromagnetic energy waves emissions emanating from all the petitioner's equipment on the site. Each such report shall be filed with the Inspectional Services Department no later than ten business days after the report has been filed with the federal authorities. Failure to timely file any such report with the Inspectional Services Department shall ipso facto terminate the special permit granted here,
 - B. that in the event that at any time federal authorities notify the petitioner that its equipment on the site, including, but not limited to the special permit granted here, fails to comply with the requirements of law or governmental regulation, whether with regard to the emissions of electromagnetic energy waves or otherwise, the petitioner, within ten business days of receipt of such notification of such failure shall file with the Inspectional Services Department a report disclosing in reasonable detail that such failure has occurred and the basis for such claimed failure. The special permit granted here shall ipso facto terminate if any of the petitioner's federal licenses is or are suspended, revoked, or terminated.
 - C. that to the extent that a special permit has terminated pursuant to the foregoing paragraphs A and B, the petitioner may apply to this Board for a new special permit provided that the public notice concerning such application discloses in reasonable detail that the application has been filed because of a termination of the special permit pursuant to paragraphs A or B above. Any such new application shall not be deemed a repetitive petition and therefore shall not be subjected to the two-year period during which repetitive petitions may not be filed.
 - D. that prior to the installation of the equipment, the petitioner shall file with the Inspectional Services Department a sworn Affidavit of the person in charge of the installation of equipment by the petitioner with a geographical area that includes Cambridge, stating that A, he or she has such responsibility; and B, that the equipment is being installed pursuant to the special permit granted here, will comply with all federal safety rules and will be situated and maintained in locations with

appropriate barricades and other protections, such that individuals, including nearby residents and occupants of nearby structures, will be sufficiently protected from excessive radio frequency radiation under federal law.

4. that the special permit granted here shall continue for two years and that after two years should the petitioner want to continue to use this facility, it must reapply for the special permit. At that point the Board and the public will have the ability to take into account any new developments, either scientifically or legislatively, with regard to telecommunications facilities.

The five member Board voted unanimously in favor of granting the special permit (Alexander, Hughes, Sullivan, Scott, and Green) as conditioned. Therefore, the special permit is granted.

The Board based its decision upon all the information presented, and upon the following findings:

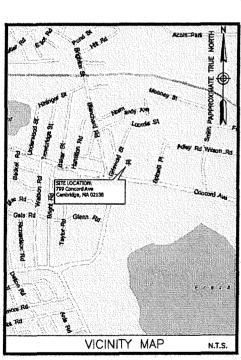
- 1) The meeting of the requirements of the Ordinance;
- 2) Traffic generated or patterns of access or egress would not cause congestion, hazard, or substantial change in the established neighborhood character;
- The continued operation of or the development of adjacent uses as permitted in the Ordinance would not be adversely affected by the nature of the proposed uses;
- 4) Nuisance or hazard would not be created to the detriment of the health, safety and /or welfare of the occupants of the proposed use;
- 5) The proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the Ordinance, and in fact would be a significant improvement to the structure and benefit the neighborhood, and;
- 6) The new use or building construction is not inconsistent with the Urban Design Objectives set forth in Section 19.30 of the Cambridge Zoning Ordinance.

Exhibit B



BELMONT 2 MA (SANCTA MARIA)

799 CONCORD AVE. **CAMBRIDGE, MA 02138**



Take Ma-9 e to Boston, take exit 14 for I-95 n toward n.h. and merge onto I-95 n, take exit 29a to merge onto Ma-2 e towards arlington, take the 1st exit onto concord ave. The site will be on the right.

ENGINEER

DEWBERRY ENGINEERS INC. 280 SUMMER ST. 10TH FLOOR BOSTON, MA 02210

PHONE # (617) 531-0800 FAX # (617) 695-3310

CONTACT: BENJAMIN REVETTE, P.E.

CONSTRUCTION

WESTBOROUGH, MA 01581-3956

PHONE # (617) 921-9716 CONTACT: ERIC WAINWRIGHT

CONSULTANT TEAM

SITE NAME: BELMONT 2 MA (SANCTA MARIA)

PROPERTY OWNER:

N/F SANCTA MARIA HOSPITAL 795 CONCORD AVE. CAMBRIDGE, MA 02138

APPLICANT: CELLCO PARTNERSHIP D/B/A
VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

> ELECTRIC UTILITY: NSTAR (800) 592-2000

TELEPHONE UTILITY: VERIZON (800) 837-4966

PARCEL ID:

LONGITUDE: 71' 09' 19.39" W

PROJECT SUMMARY

SITE ADDRESS: 799 CONCORD AVE CAMBRIDGE, MA 02138

ZONING DISTRICT: 01 - OFFICE ONE
AOD3- ALEWIFE OVERLAY DISTRICT
PARKWAY OVERLAY DISTRICT
CONCORD AVENUE PARKWAY SUBDISTRICT

PROJECT DIRECTORY

THE SITE CONSISTS OF (12) ANTENNAS AND ASSOCIATED EQUIPMENT MOUNTED TO THE PENTHOUSE FACADES OF AN EXISTING BUILDING. THE ANTENNAS ARE SCREENED BEHIND PIBERGIASS PENTHOUSE EXTENSIONS. IN ADDITION, THE EXISTING VACANT GARAGE AT GRADE IS UTILIZED AS AN EQUIPMENT ROOM. A NATURAL GAS GENERATOR ARE INSIDE THE EQUIPMENT ROOM.

PROJECT DESCRIPTION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

T-1	TITLE SHEET
	ROOF PLAN
	NORTH ELEVATION
C-3	WEST ELEVATION
C-4	SOUTH ELEVATION
C-5	EAST ELEVATION
C6	ANTENNA MOUNTING DETAILS
S-1	SCREENWALL ISOMETRICS
	-
	CHEET INDEX
	SHEET INDEX

DESCRIPTION

NO.

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.

118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

		AS-BUILT DRAWINGS							
	2	01/13/17	FOR SUBMITTAL						
	1	12/09/16	FOR SUBMITTAL						
ı	0	12/01/16	FOR SUBMITTAL						

Dewberry•

Dewberry Engineers Inc. INDER'S INC. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	MR		
REVIEWED BY:	КВ		
CHECKED BY:	BBR		
PROJECT NUMBER:	50002925		
JOB NUMBER:	50070896		
SITE ADDRESS:			

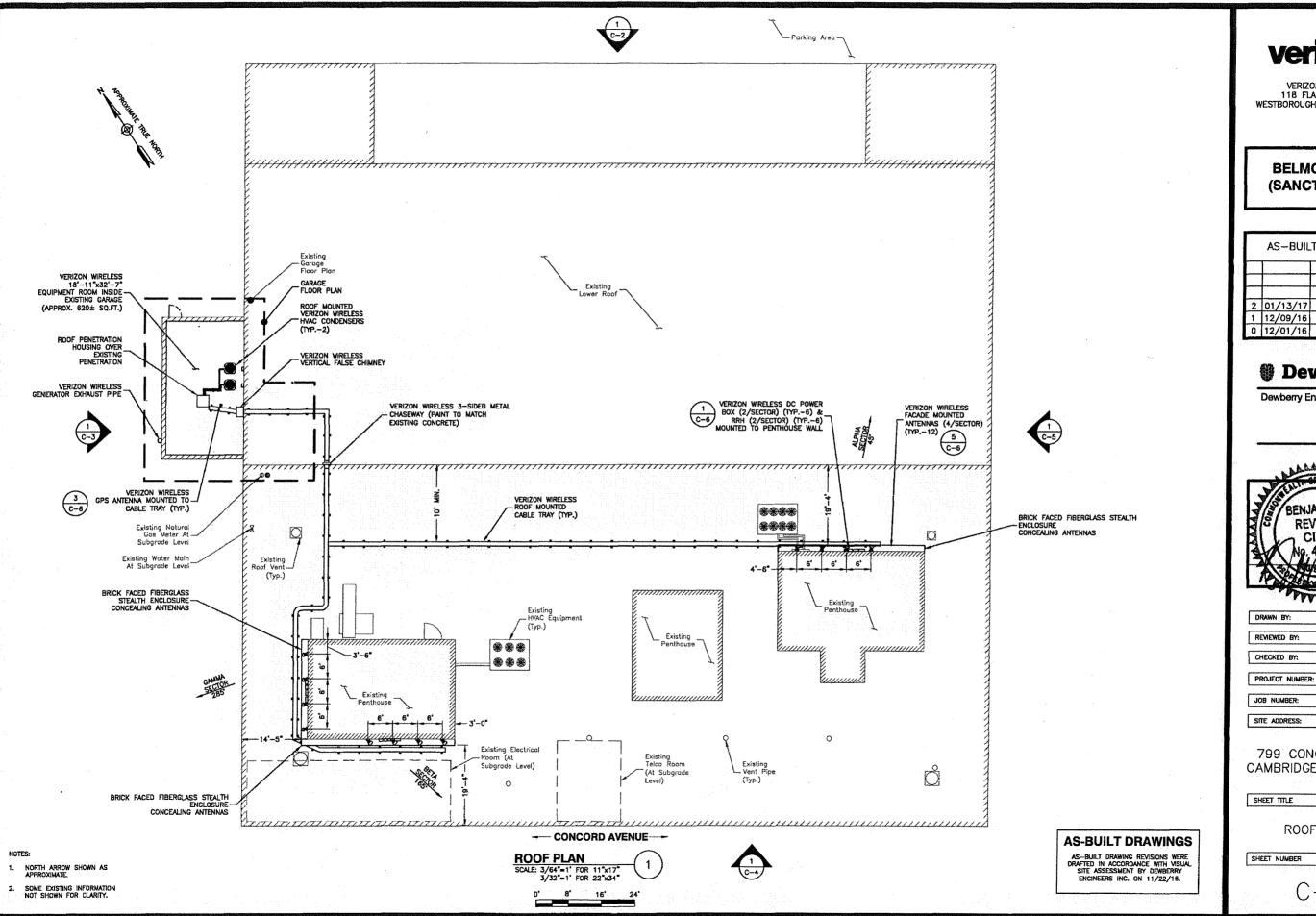
799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

TITLE SHEET

SHEET NUMBER

| -- 1





VERIZON WIRELESS 11B FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUIL	T DRAWINGS
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	01/13/17	FOR SUBMITTAL
1	12/09/16	FOR SUBMITTAL
0	12/01/16	FOR SUBMITTAL

Dewberry*

Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR 80STON, MA 02210 PHONE: 617.695.3400 FAX: 817.695.3310

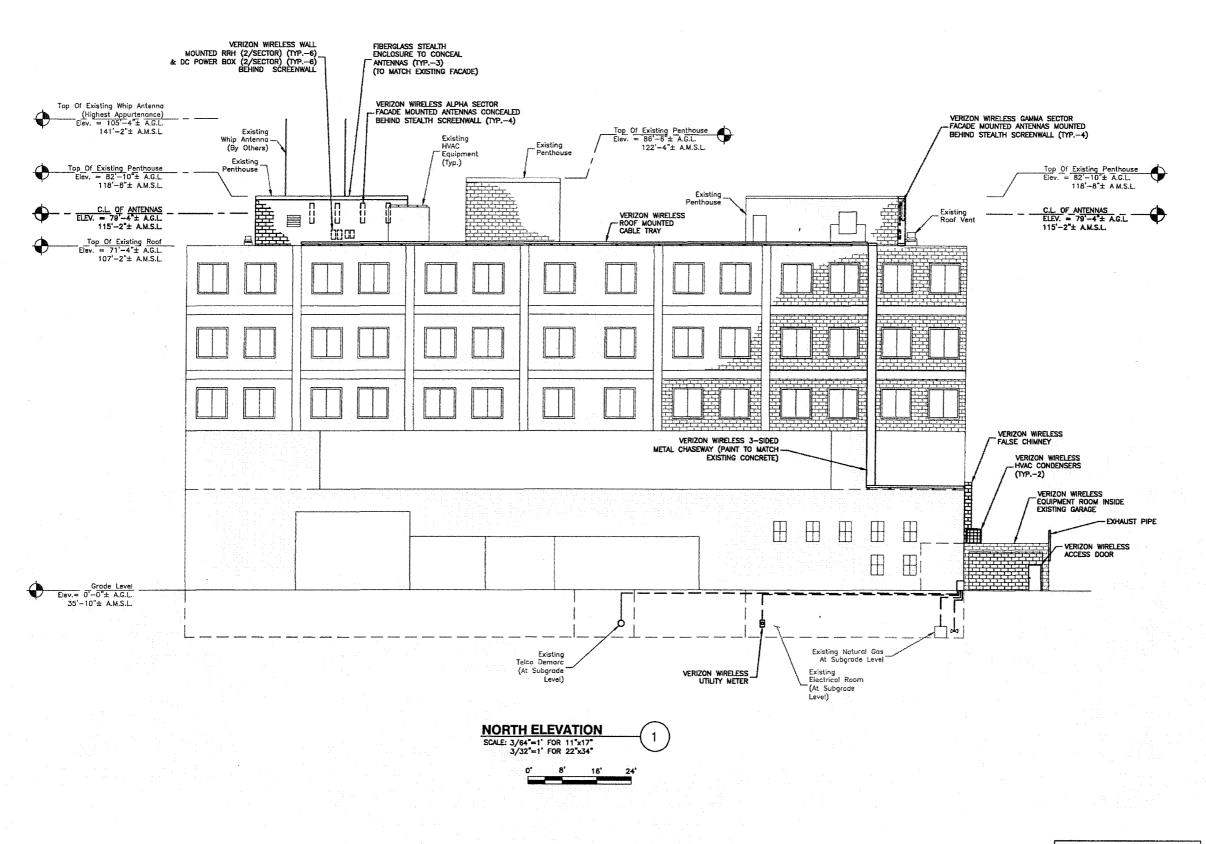


MR KB BBR

50002925 50070896

799 CONCORD AVE. CAMBRIDGE, MA 02138

ROOF PLAN



NOTES:

- SOME EXISTING INFORMATION NOT SHOWN FOR CLARITY.
- 2. A.G.L. = ABOVE GRADE LEVEL
 A.R.L. = ABOVE ROOF LEVEL
 A.M.S.L. = ABOVE MEAN SEA LEVEL



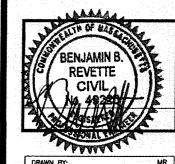
VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUIL	T DRAWINGS
		11.13
2	01/13/17	FOR SUBMITTAL
-	12/09/16	FOR SUBMITTAL
0	12/01/16	FOR SUBMITTAL



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 817.895.2310



Divinia Div	

REVIEWED BY:	KB
	1 11 11 11 11 11
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
	1 Problem
JOB NUMBER:	50070896

JOB NUMBER: 50070896

SITE ADDRESS:

799 CONCORD AVE. CAMBRIDGE, MA 02138

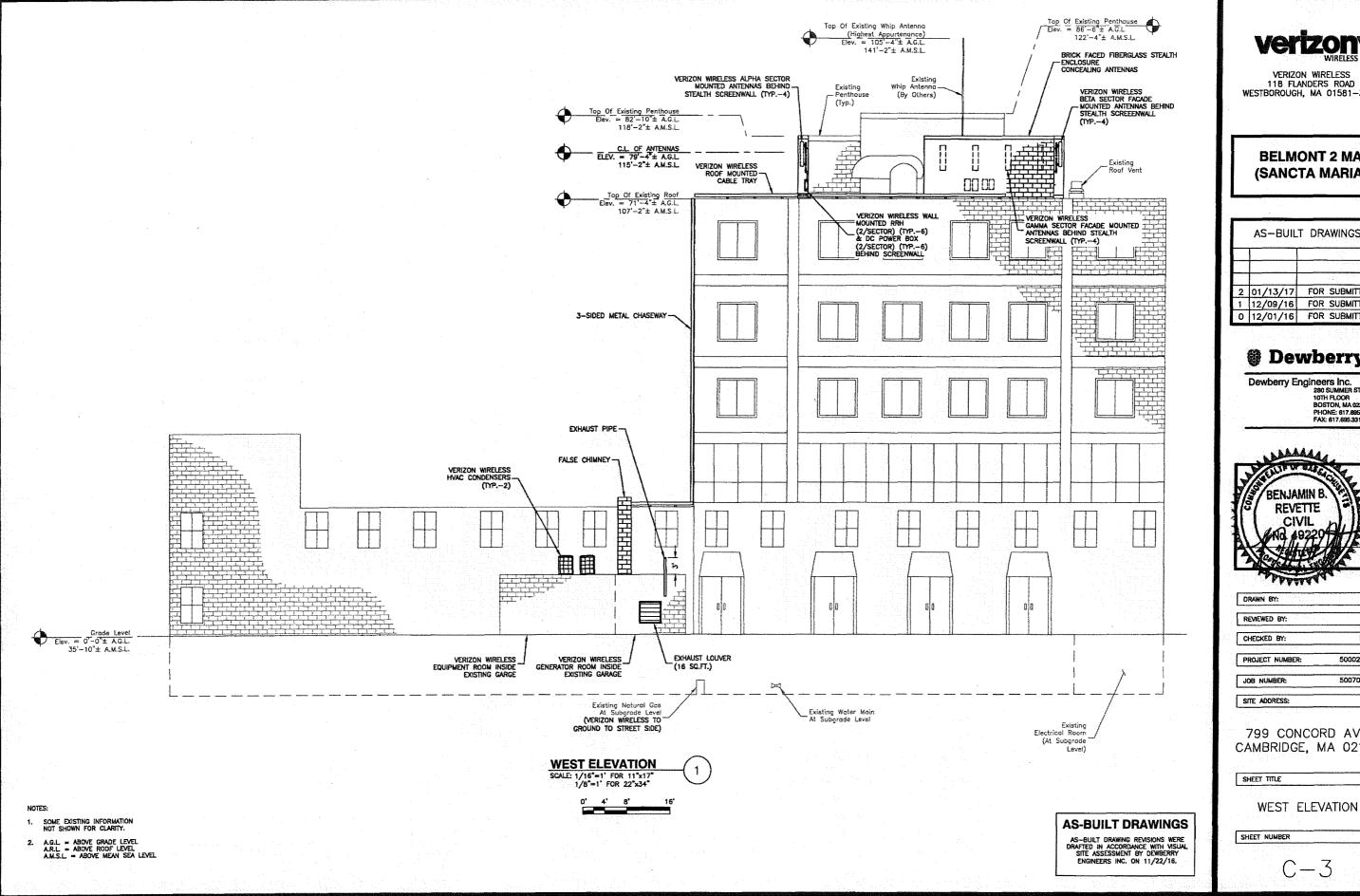
SHEET TITLE

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH MISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16. NORTH ELEVATION

SHEET NUMBER

C-2





VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUIL	T DRAWINGS	
2	01/13/17	FOR SUBMITTAL	÷,
1	12/09/16	FOR SUBMITTAL	
0	12/01/16	FOR SUBMITTAL	

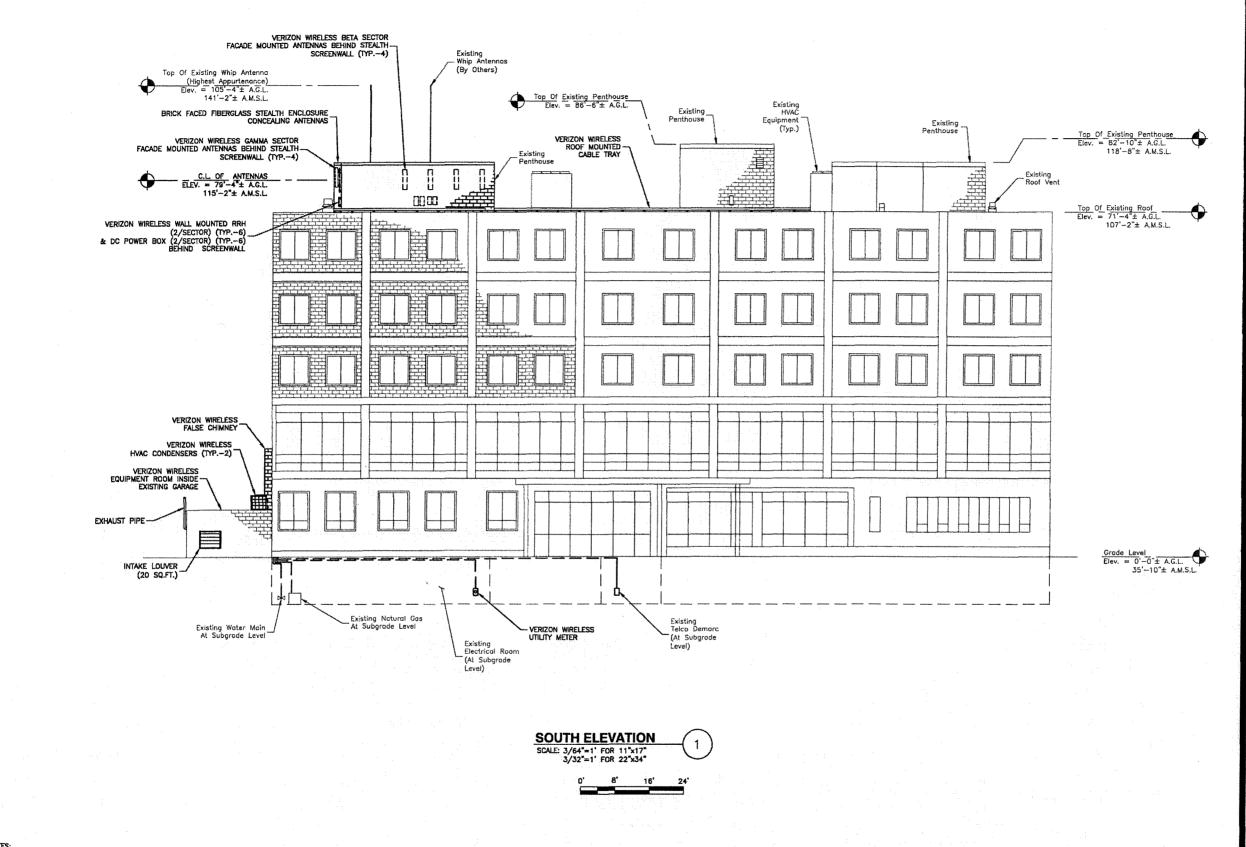
Dewberry®

Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



K8 BBR
BBR
BBR
50002925
50070896

799 CONCORD AVE. CAMBRIDGE, MA 02138



2. A.G.L. = ABOVE GRADE LEVEL
A.R.L. = ABOVE ROOF LEVEL
A.M.S.L. = ABOVE MEAN SEA LEVEL

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/18.



VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUILT DRAWINGS								
		1.7							
2	01/13/17	FOR SUBMITTAL							
1	12/09/16	FOR SUBMITTAL							
0	12/01/16	FOR SUBMITTAL							



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 817-895-3400 FAX: 617-895-3310



DRAWN BY:	MR
REVIEWED BY:	кв
CHECKED BY:	BBR
	. EMMESTE
PROJECT NUMBER:	50002925

JOB NUMBER: 50070896
SITE ADDRESS:

.

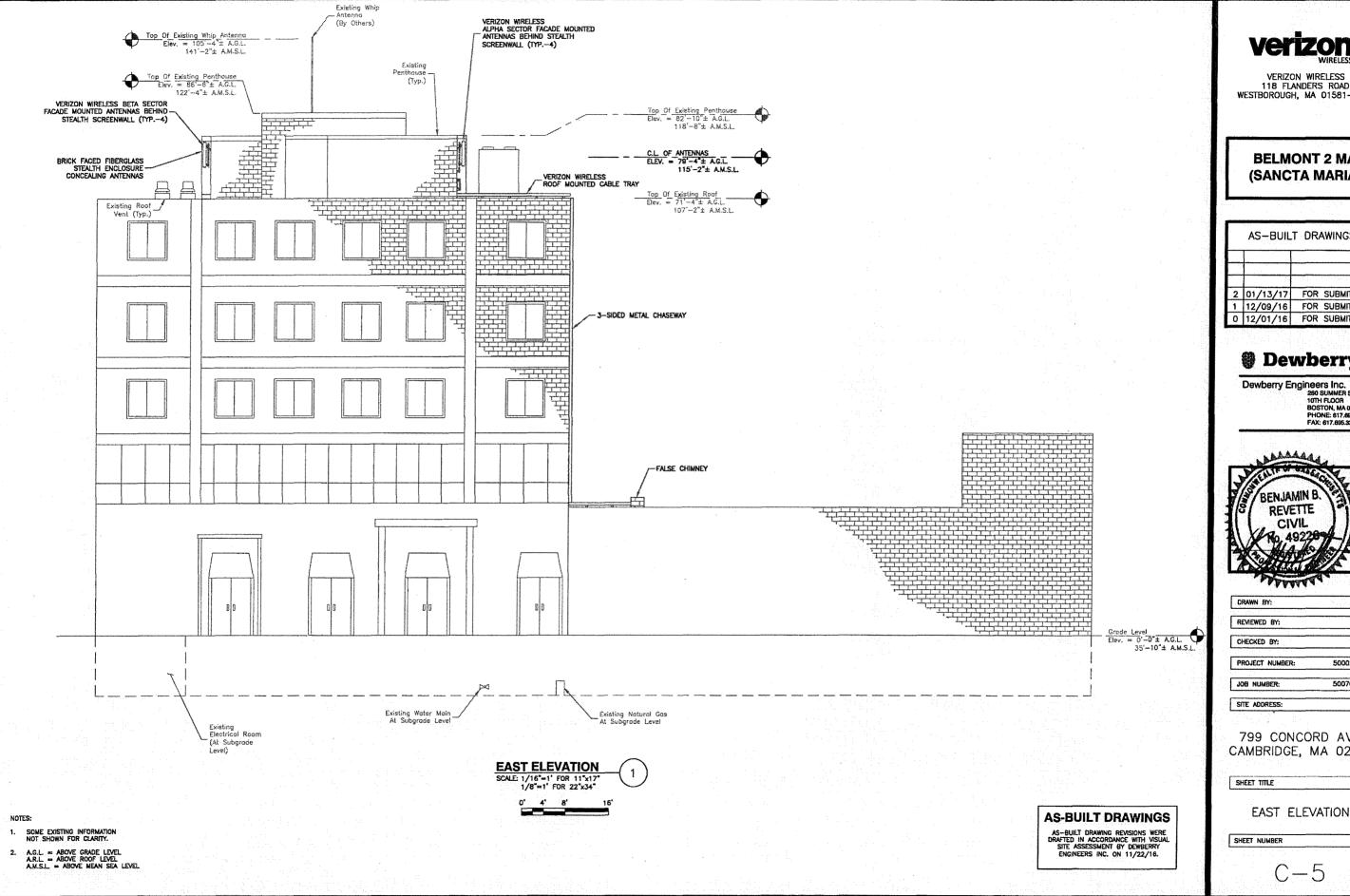
799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

SOUTH ELEVATION

SHEET NUMBER

C-4



VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS						
2	01/13/17	FOR SUBMITTAL				
1	12/09/16	FOR SUBMITTAL				
0	12/01/16	FOR SUBMITTAL				



INCEPS INC. 260 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695,3400 FAX: 617.695,3310



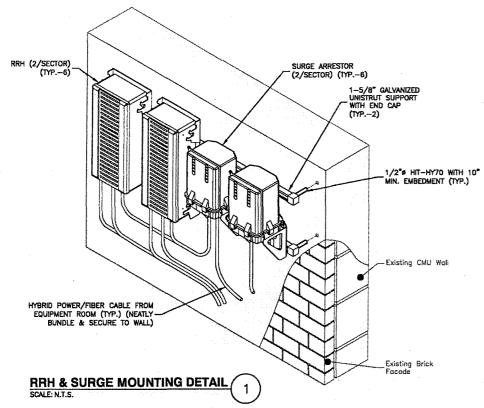
KB BBR 50002925

MR

50070896

799 CONCORD AVE. CAMBRIDGE, MA 02138

EAST ELEVATION



GPS ANTENNA

1.25 S GALV.

CALV. 1/4" U-BOLT (TYP.-2)

1/2"# COAX CABLE ---

GROUNDING KIT

#2 AWG BTCW --

TO GROUND BAR AT EQUIPMENT BASE OF CABLETRAY

PVC SLEEPER-

SECTOR	ANTENNA	AZIMUTH (TRUE NORTH)	RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	RRH	RET CABLES (LENGTH)	HYBRID CABLE (LENGTH)	LARGE JUNCTION BO
IA	COMMSCOPE LNX-6513DS-A1M	45'	79'-4 " ±	σ	-6	(1) RRH2x40~07U			
IIA	COMMSCOPE SBNHH-1D65A	45'	79'-4"±	σ	-3"	(1) RRH2x60-AWS	(2) LINE (325'±)	(1) 6x12 (325°±)	(1) RAYCAP DB-C1-6C-12AB-0
iliA	COMMSCOPE SBNHH-1D65A	45'	79'-4"±	۵	-3	-	(525 1)	(020 2)	55 51 55 125 5
TVA .	COMMSCOPE LNX-6513DS-A1M	45'	79'-4"±	Q.	-6.	-			
IB	COMMSCOPE LNX-6513DS-A1M	165*	79'-4"±	۵	-6.	(1) RRH2x40-07U			
HB	COMMSCOPE LNX-6513DS-A1M	165*	79'-4"±	σ	-3*	(1) RRH2x60-AWS	(2) LINE (275'±)	(1) 6x12 (275°±)	(1) RAYCAP DB-C1-6C-12AB-0
IIIB	COMMSCOPE LNX-6513DS-A1M	165	79'-4"±	σ	-3.	-	(275°±)	(2/02)	DD-C1-00-12AG-01
IVB	COMMSCOPE LNX-6513DS-A1M	165*	79'-4"±	ď	-6'	-			
IG	COMMSCOPE LNX-6513DS-A1M	285°	79'-4"±	ď	-6*	(1) RRH2x40-07U			
IIG	COMMSCOPE LNX-6513DS-A1M	285'	79'-4 " ±	σ	-3°	(1) RRH2x60-AWS	(2) LINE (225'±)	(1) 6x12 (225'±)	(1) RAYCAP DB-C1-6C-12AB-02
IIIG	COMMSCOPE LNX-6513DS-A1M	285°	79'-4"±	σ	-3'	-	(223 1)	(220 2)	
IVG	COMMSCOPE LNX-6513DS-A1M	285	79'-4"±	σ	-6	-			

SCALE: N.T.S.

Existing Ceiling opening
(TO BE USED FOR HYBRID CABLE & HVAC LINES) BOOT & CUSHION ASSEMBLY, SEE -TABLE 1 HYBRID CABLE/HVAC LINES (TYP.) FRONT VIEW SECTION

GPS	ANTENNA NOTES:
1.	GROUND ANTENNAS AND MOUNTS PER MANUFACTURER'S RECOMMENDATIONS AND VERIZON WIRELESS STANDARDS.

FIELD LOCATE GPS ANTENNAS A MINIMUM OF 10' HORIZONTALLY FROM OTHER GPS ANTENNAS, WITH VERIZON WIRELESS CM APPROVAL.

GPS ANTENNA MOUNT

CABLE TRAY

#2 AWG BTCW

GROUND BAR ATTACHED TO CABLE TRAY

GROUND GPS MOUNTING
STRUCTURE BACK TO GROUND
"SYSTEM W/ #2 SOLID BARE

TABLE 1

1/2"#

1 5/8°ø

FASTEN CABLE ENTRY TO WALL W/ STAINLESS STEEL SCREWS W/ LEAD SHIELD INSERTS INTO BRICK, MASONRY, CONC. USE TOGGLE BOLTS INTO STUD WALLS.

No. CABLES MICROFLECT CABLE

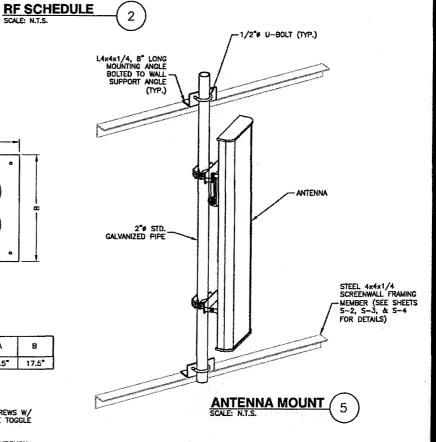
ENTRY PANEL

£1199

17.5" 17.5"

- DRILL HOLES 1/2" LARGER IN DIAMETER THAN CABLES THROUGH WALL/CEILING TO MATCH HOLES IN THE CABLE ENTRY.
- DETAIL BASED ON THE USE OF MICROFLECT AND HILTI, CONTRACTOR MAY SUBSTITUTE APPROVED EQUAL MATERIAL.

COAX CABLE WAVEPORT SCALE: N.T.S.



118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUILT DRAWINGS				
	2	01/13/17	FOR SUBMITTAL		
	1	12/09/16	FOR SUBMITTAL		
١	0	12/01/16	FOR SUBMITTAL		



Dewberry Engineers Inc. INCER'S INC. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	MK
REVIEWED BY:	КВ
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50070896
SITE ADDRESS:	

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

ANTENNA MOUNTING **DETAILS**

SHEET NUMBER

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.

C-6

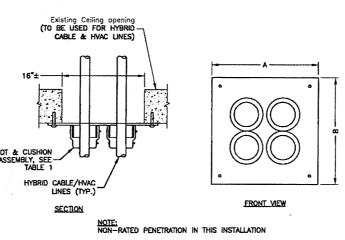
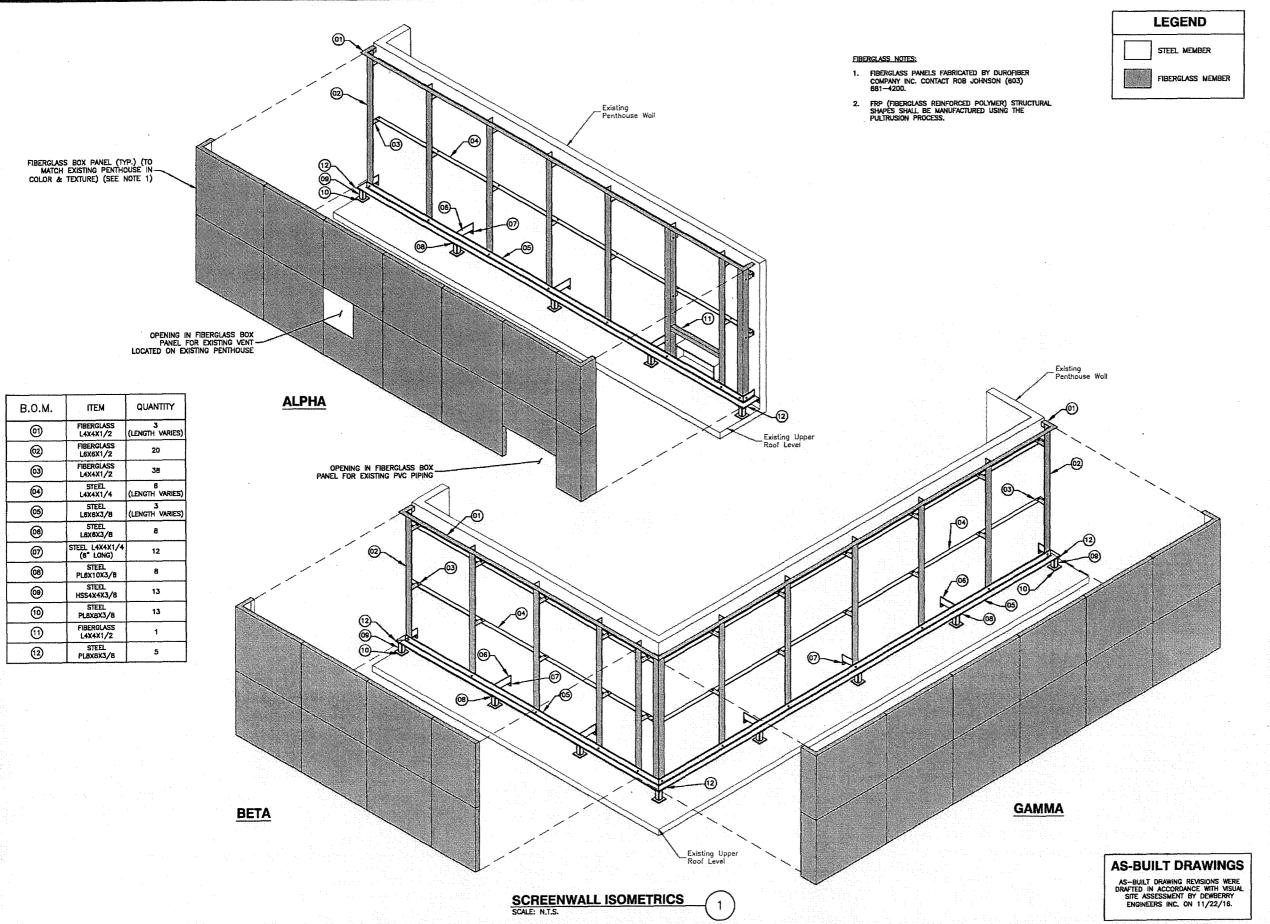


TABLE 2

CABLE MICROFLECT BOOT & SIZE CUSHION ASSEMBLY

B1346A

B535A







VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUIL	T DRAWINGS

2	01/13/17	FOR SUBMITTAL
1	12/09/16	FOR SUBMITTAL
0	12/01/16	FOR SUBMITTAL

Dewberry

Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	MR
	- 10
REVIEWED BY:	КВ
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50070896
SITE ADDRESS:	1 1 1

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

SCREENWALL ISOMETRICS

SHEET NUMBER

Exhibit C

AS-BUILT PHOTO PACKAGE

Site Name: Belmont 2 MA (Sancta Maria)

799 Concord Ave Cambridge, MA 02138

December 8, 2016



Prepared For:

Verizon Wireless 118 Flanders Road Westborough, MA 01581-3956 Prepared by:

Dewberry Engineers Inc. 280 Summer Street 10th Floor Boston, Massachusetts 02210-1131



Belmont 2 MA (Sancta Maria)

Table of Figures

Figure 1: View of Sancta Maria Nursing Facility from Concord Ave	. 2
Figure 2: View of Sancta Maria Nursing Facility from Sunet Road	
Figure 3: View of Sancta Maria Nursing Facility from rear parking lot	. 4
Figure 4: View of Sancta Maria Nursing Facility from Spinelli Place	. 5
Figure 5: View of Verizon Wireless equipment room and fiberglass chimney	
Figure 6: View of alpha sector fiberglass enclosure	. 7
Figure 7: View of beta sector fiberglass enclosure	
Figure 8: View of gamma sector fiberglass enclosure	

Key Map





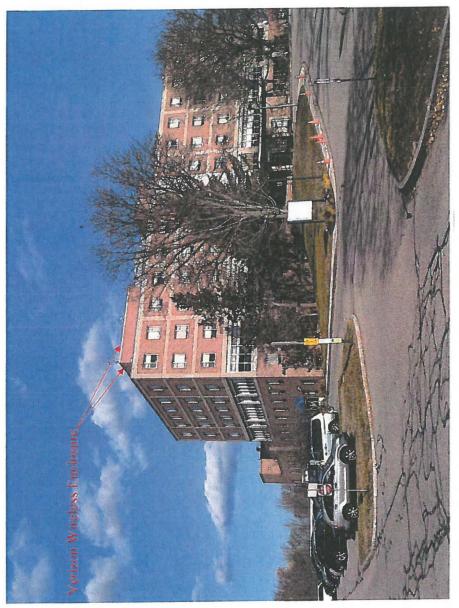


Figure 1: View of Sancta Maria Nursing Facility from Concord Ave

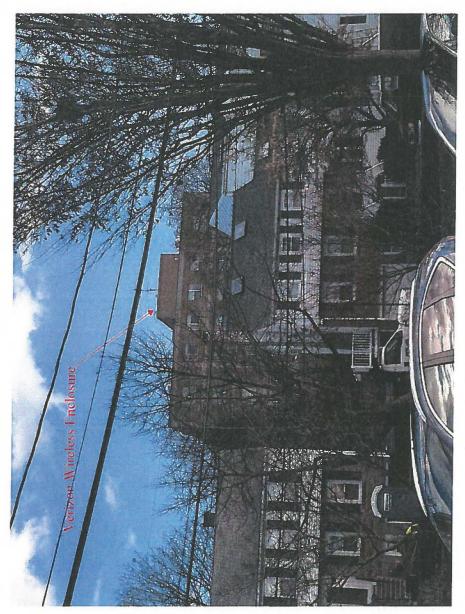


Figure 2: View of Sancta Maria Nursing Facility from Sunset Road



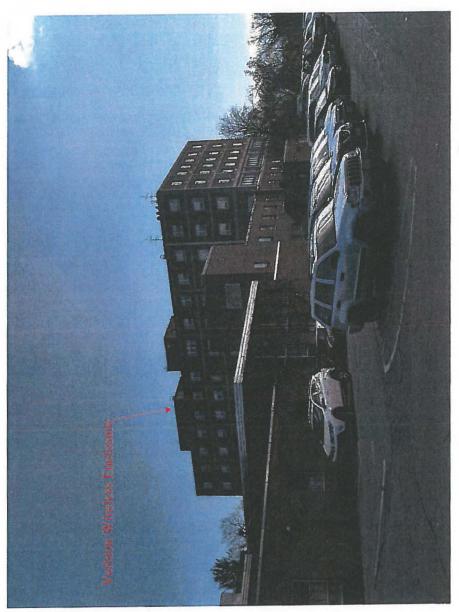


Figure 3: View of Sancta Maria Nursing Facility from rear parking lot



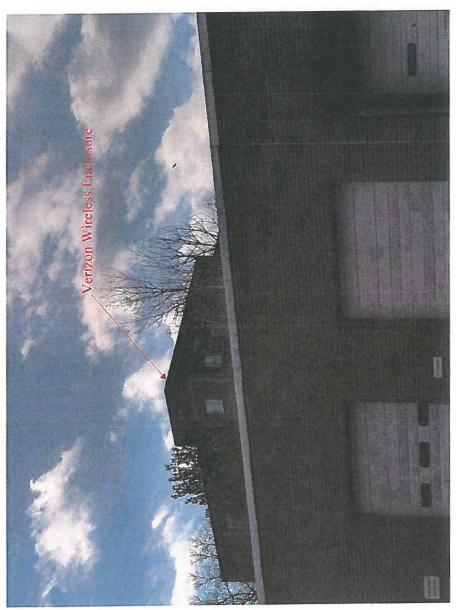


Figure 4: View of Sancta Maria Nursing Facility from Spinelli Place



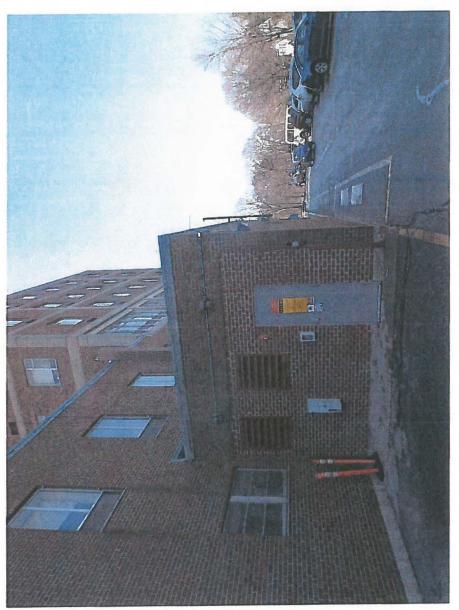


Figure 5: View of Verizon Wireless equipment room and fiberglass chimney

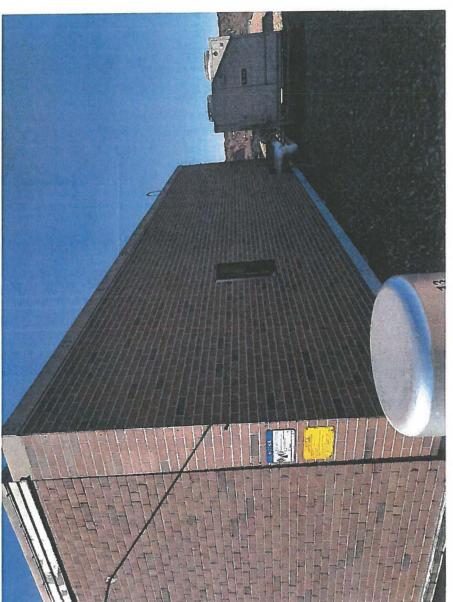


Figure 6: View of alpha sector fiberglass enclosure



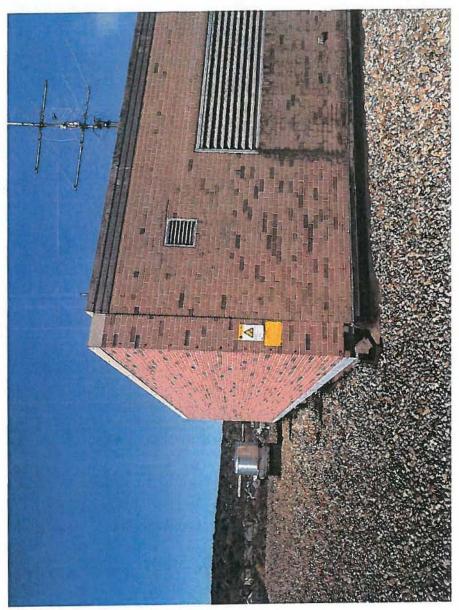


Figure 7: View of beta sector fiberglass enclosure

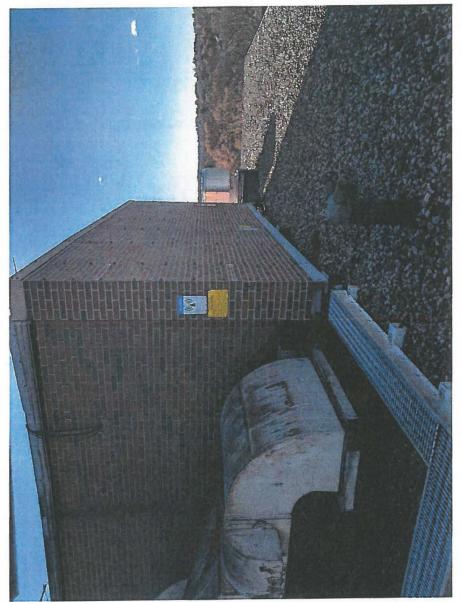


Figure8: View of gamma sector fiberglass enclosure



Exhibit D

Cellular License - KNKA201 - Cellco Partnership

Call Sign

KNKA201

Radio Service

CL - Cellular

Status

Active

Auth Type

Regular

Market

Market

CMA006 - Boston-Lowell-Brockton- Channel Block

Lawrence-Haverhill, MA-NH

Submarket

Phase

2

В

Dates

Grant

08/26/2014

Expiration

10/01/2024

Effective

11/01/2016

Cancellation

Five Year Buildout Date

08/27/1989

Control Points

3

500 W. Dove Rd., TARRANT, Southlake, TX

P: (800)264-6620

Licensee

FRN

0003290673

Type

General Partnership

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com

ATTN Regulatory

Contact

Cellco Partnership

Licensing Manager

P:(770)797-1070

P:(770)797-1070

F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

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

Basic Qualifications

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

Demographics

Race

Ethnicity

Gender

PCS Broadband License - KNLH242 - Cellco Partnership

Call Sign

KNLH242

Radio Service

CW - PCS Broadband

Status

Active

Auth Type

Regular

Market

Market

BTA051 - Boston, MA

Channel Block

F

Submarket

Associated

(MHz)

Frequencies

001890.00000000-001895.00000000 001970.000000000-

001975.00000000

Dates

Grant

07/23/2007

Expiration

06/27/2017

Effective

11/01/2016

Cancellation

Buildout Deadlines

1st

06/27/2002

2nd

Notification Dates

1st

05/17/2002

2nd

Licensee

FRN

0003290673

Type

Joint Venture

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

P:(770)797-1070

F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

Contact

Verizon Wireless

Licensing - Manager

F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022

ATTN Regulatory

P:(770)797-1070

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

No

Alien Ownership

Is the applicant a foreign government or the representative of any

foreign government?

Is the applicant an alien or the representative of an alien?

Is the applicant a corporation organized under the laws of any

foreign government?

No No

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

No

http://wireless2.fcc.gov/UIsApp/UIsSearch/license.jsp?licKey=10411&printable

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

Call Sign

WQGA900

Radio Service

AW - AWS (1710-1755 MHz and

2110-2155 MHz)

Status

Active

Auth Type

Regular

Market

Market

BEA003 - Boston-Worcester-

Lawrence-Lowell-Brockton, MA-NH-

Channel Block

В

RI-VT

Submarket

1

Associated Frequencies 001720.000000000-001730.00000000

(MHz)

002120.000000000-002130.00000000

Dates

Grant

11/29/2006

Expiration

11/29/2021

Effective

11/01/2016

Cancellation

Buildout Deadlines

1st

2nd

Notification Dates

1st

2nd

Licensee

FRN

0003290673

Type

General Partnership

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

ATTN Regulatory

Contact

Cellco Partnership

Licensing Manager

P:(770)797-1070

F:(770)797-1036

P:(770)797-1070

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

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

Basic Qualifications

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

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

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

Call Sign

WQGB266

Radio Service

AW - AWS (1710-1755 MHz and

2110-2155 MHz)

Status

Active

Auth Type

Regular

Market

Market

CMA006 - Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH

Channel Block

A

Submarket

0

Associated

Frequencies

001710.000000000-001720.00000000

(MHz)

002110.000000000-002120.00000000

Dates

Grant

11/29/2006

Expiration

11/29/2021

Effective

11/01/2016

Cancellation

Buildout Deadlines

1st

2nd

Notification Dates

1st

2nd

Licensee

FRN

0003290673

Type

General Partnership

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

P:(770)797-1070

F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

Contact

Cellco Partnership

Licensing Manager

P:(770)797-1070 F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering

E:LicensingCompliance@VerizonWireless.com

Alpharetta, GA 30022

ATTN Regulatory

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

Is the applicant a foreign government or the representative of any

foreign government?

No

Is the applicant an alien or the representative of an alien?

No

Is the applicant a corporation organized under the laws of any

foreign government?

No

Is the applicant a corporation of which more than one-fifth of the

700 MHz Upper Band (Block C) License - WQJQ689 - Cellco Partnership

M This license has pending applications: 0007581227

Call Sign

WQJQ689

Radio Service

WU - 700 MHz Upper Band (Block

C)

C

Status

Active

Auth Type

Regular

Market

Market

REA001 - Northeast

Channel Block

Submarket

0

Associated

Frequencies

000746.000000000-000757.00000000

(MHz)

000776.00000000-000787.00000000

Dates

Grant

11/26/2008

Expiration

06/13/2019

Effective

01/31/2017

Cancellation

Buildout Deadlines

1st

06/13/2013

2nd

06/13/2019

Notification Dates

1st

06/20/2013

2nd

Licensee

FRN

0003290673

Type

General Partnership

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

P:(770)797-1070 F:(770)797-1036

ATTN Regulatory

E:LicensingCompliance@VerizonWireless.com

Contact

Verizon Wireless

P:(770)797-1070

Licensing Manager

F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

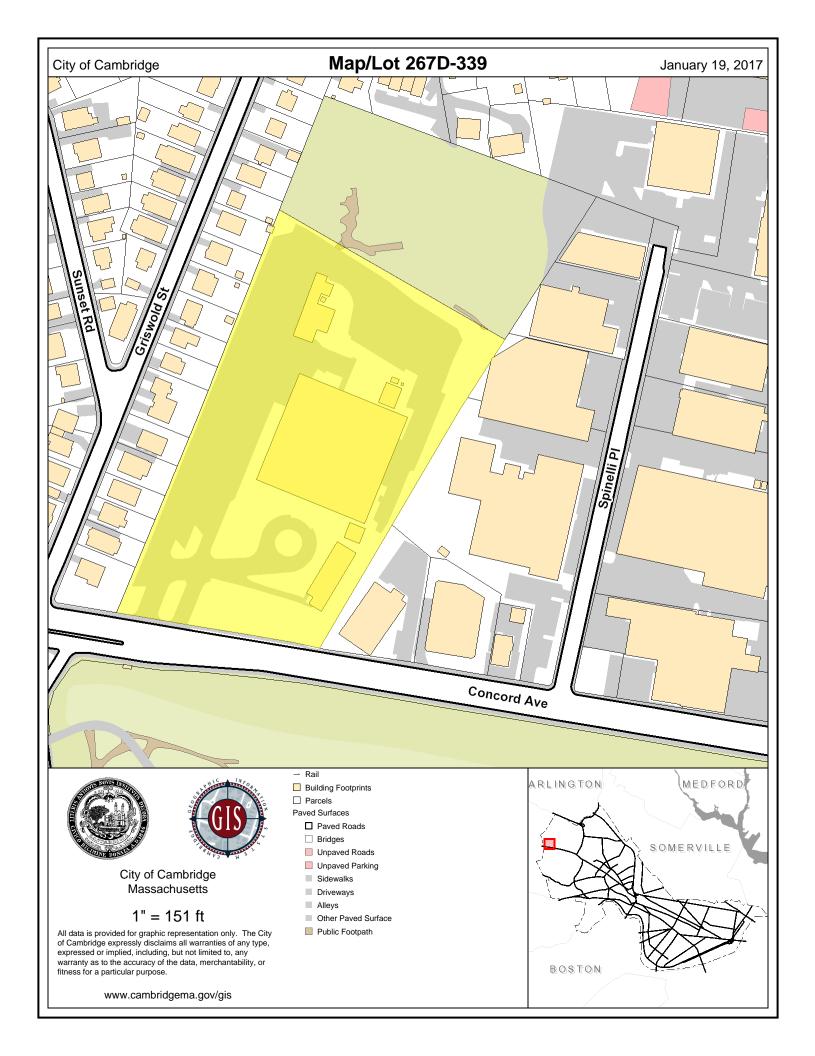
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications

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

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.



AS-BUILT PHOTO PACKAGE

Site Name: Belmont 2 MA (Sancta Maria)

799 Concord Ave Cambridge, MA 02138

December 8, 2016



Prepared For:

Verizon Wireless

118 Flanders Road Westborough, MA 01581-3956 Prepared by:

Dewberry Engineers Inc.

280 Summer Street 10th Floor Boston, Massachusetts 02210-1131



Belmont 2 MA (Sancta Maria)

Table of Figures

igure 1: View of Sancta Maria Nursing Facility from Concord Ave	. 1
igure 2: View of Sancta Maria Nursing Facility from Sunet Road	
igure 3: View of Sancta Maria Nursing Facility from rear parking lot	
igure 4: View of Sancta Maria Nursing Facility from Spinelli Place	
Figure 5: View of Verizon Wireless equipment room and fiberglass chimney	
Figure 6: View of alpha sector fiberglass enclosure	
igure 7: View of beta sector fiberglass enclosure	
igure 8: View of gamma sector fiberglass enclosure	. :

Key Map





verizon /



Figure 1: View of Sancta Maria Nursing Facility from Concord Ave



Figure 2: View of Sancta Maria Nursing Facility from Sunset Road



Figure 3: View of Sancta Maria Nursing Facility from rear parking lot



Figure 4: View of Sancta Maria Nursing Facility from Spinelli Place





Figure 5: View of Verizon Wireless equipment room and fiberglass chimney



Figure 6: View of alpha sector fiberglass enclosure



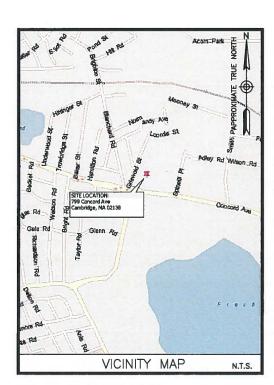
Figure 7: View of beta sector fiberglass enclosure



Figure8: View of gamma sector fiberglass enclosure



BELMONT 2 MA (SANCTA MARIA) 799 CONCORD AVE. CAMBRIDGE, MA 02138



ENGINEER

DEWBERRY ENGINEERS INC. 280 SUMMER ST. 10TH FLOOR BOSTON, MA 02210

PHONE # (617) 531-0800 FAX # (617) 695-3310

CONTACT: BENJAMIN REVETTE, P.E.

CONSTRUCTION

VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

PHONE # (617) 921-9716
CONTACT: ERIC WAINWRIGHT

CONSULTANT TEAM

SITE NAME: BELMONT 2 MA (SANCTA MARIA)

PROPERTY OWNER:

N/F SANCTA MARIA HOSPITAL 795 CONCORD AVE. CAMBRIDGE, MA 02138

APPLICANT:
CELLCO PARTNERSHIP D/B/A
VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROLIGH, MA. 01581-395

ELECTRIC UTILITY: NSTAR (800) 592-2000

TELEPHONE UTILITY: VERIZON (800) 837-4966

> PARCEL ID: 267D-339

<u>CENTER OF ROOF*:</u> LATITUDE: 42* 23* 29.58" N LONGITUDE: 71* 09* 19.39" W *PER FAA-2C

PROJECT SUMMARY

SITE ADDRESS: 799 CONCORD AVE. CAMBRIDGE, MA 02138

ZONING DISTRICT: 01 - OFFICE ONE AOD3- ALEWIFE OVERLAY DISTRICT

PROJECT DIRECTORY

PARKWAY OVERLAY DISTRICT
CONCORD AVENUE PARKWAY SUBDISTRICT

THE SITE CONSISTS OF (12) ANTENNAS AND ASSOCIATED EQUIPMENT MOUNTED TO THE PENTHOUSE FACADES OF AN EXISTING BUILDING. THE ANTENNAS ARE SCREENED BEHIND FIBERGLASS PENTHOUSE EXTENSIONS. IN ADDITION, THE EXISTING VACANT GARAGE AT GRADE IS UTILIZED AS AN EQUIPMENT ROOM. A NATURAL GAS GENERATOR ARE INSIDE THE EQUIPMENT ROOM.

PROJECT DESCRIPTION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN, REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHT. NO.	DESCRIPTION		
T-1	TITLE SHEET		
	ROOF PLAN		
C-2	NORTH ELEVATION		
C-3	WEST ELEVATION		
C-4	SOUTH ELEVATION		
C-5	EAST ELEVATION		
C-6	ANTENNA MOUNTING DETAILS		
S-1	SCREENWALL ISOMETRICS		
-			
	SHEET INDEX		
	1		

DIRECTIONS FROM WESTBOROUGH, MA:

TAKE MA-9 E TO BOSTON. TAKE EXIT 14 FOR I-95 N TOWARD N.H. AND MERGE ONTO I-95 N. TAKE EXIT 29A TO MERGE ONTO MA-2 E TOWARDS ARLINGTON. TAKE THE 1ST EXIT ONTO CONCORD AVE. THE SITE WILL BE ON THE RIGHT.

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.



VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581—3956

BELMONT 2 MA (SANCTA MARIA)

٠.			
	Г	AS-BUIL	T DRAWINGS
	2	01/13/17	FOR SUBMITTAL
	1	12/09/16	FOR SUBMITTAL
	n	12/01/16	FOR SUBMITTAL



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617-695-300 FAX: 617-895-3310



MR
KB
BBR
50002925
50070896

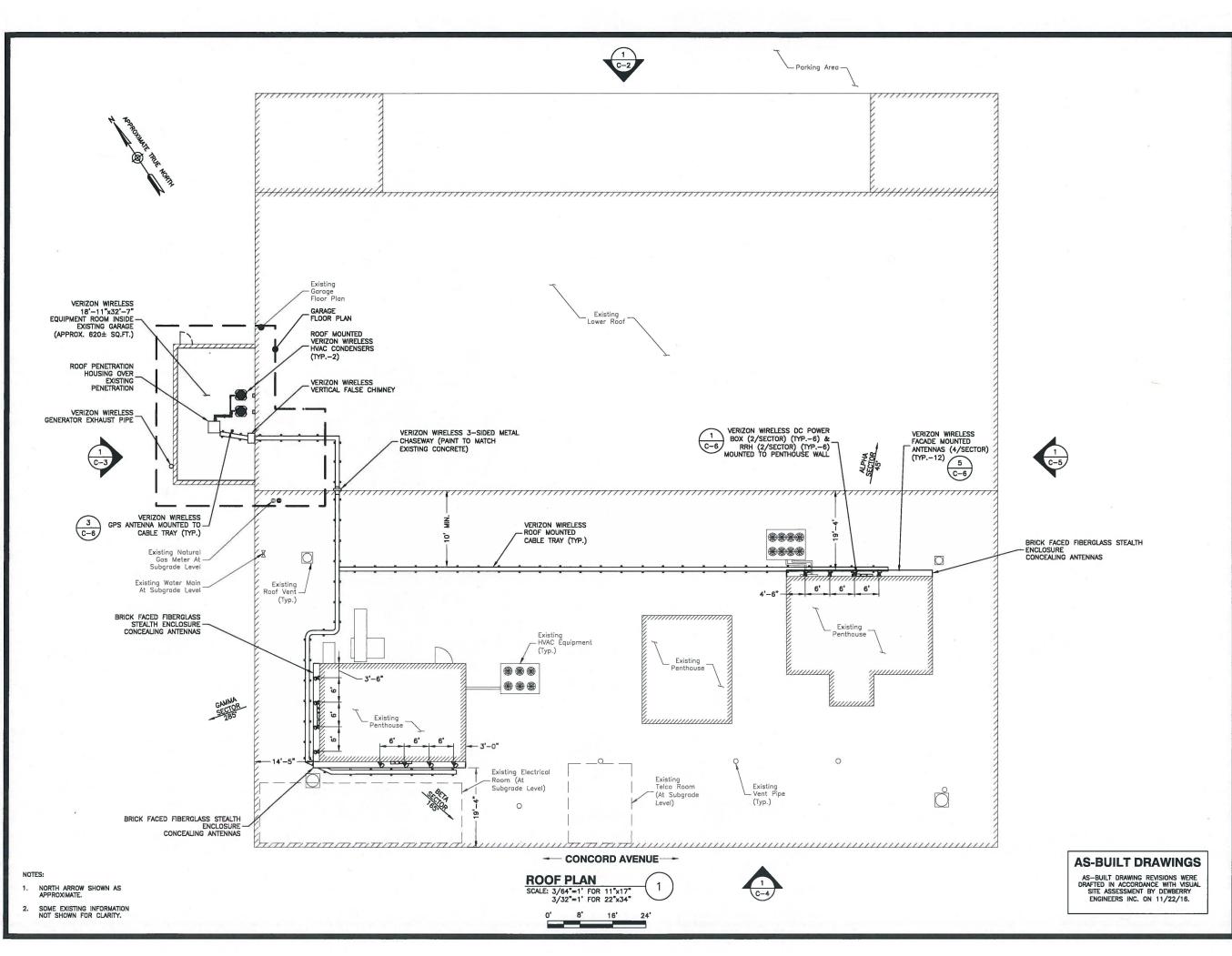
799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

TITLE SHEET

SHEET NUMBER

-1





VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS		
2	01/13/17	FOR SUBMITTAL
- 1	12/09/16	FOR SUBMITTAL
0	12/01/16	FOR SUBMITTAL



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	MR
REVIEWED BY:	КВ
CHECKED BY:	BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50070896

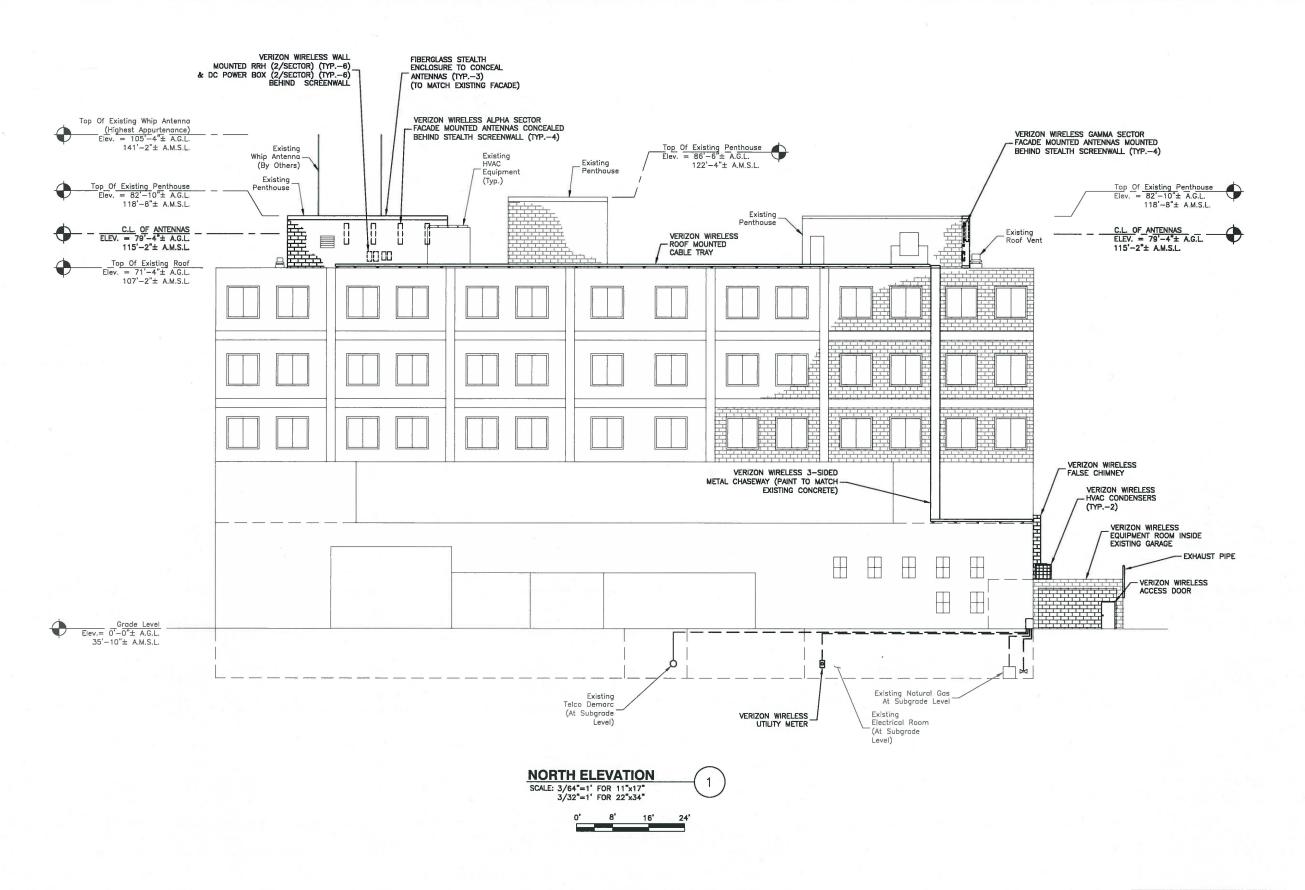
SITE ADDRESS:

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

ROOF PLAN

SHEET NUMBER



NOTES:

 SOME EXISTING INFORMATION NOT SHOWN FOR CLARITY.

2. A.G.L. = ABOVE GRADE LEVEL
A.R.L. = ABOVE ROOF LEVEL
A.M.S.L. = ABOVE MEAN SEA LEVEL



AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.



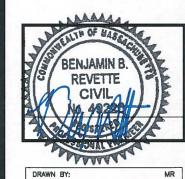
VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS				
2	01/13/17	FOR SUBMITTAL		
1	12/09/16	FOR SUBMITTAL		
0	12/01/16	FOR SUBMITTAL		



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



REVIEWED BY: KB

CHECKED BY: BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50070896

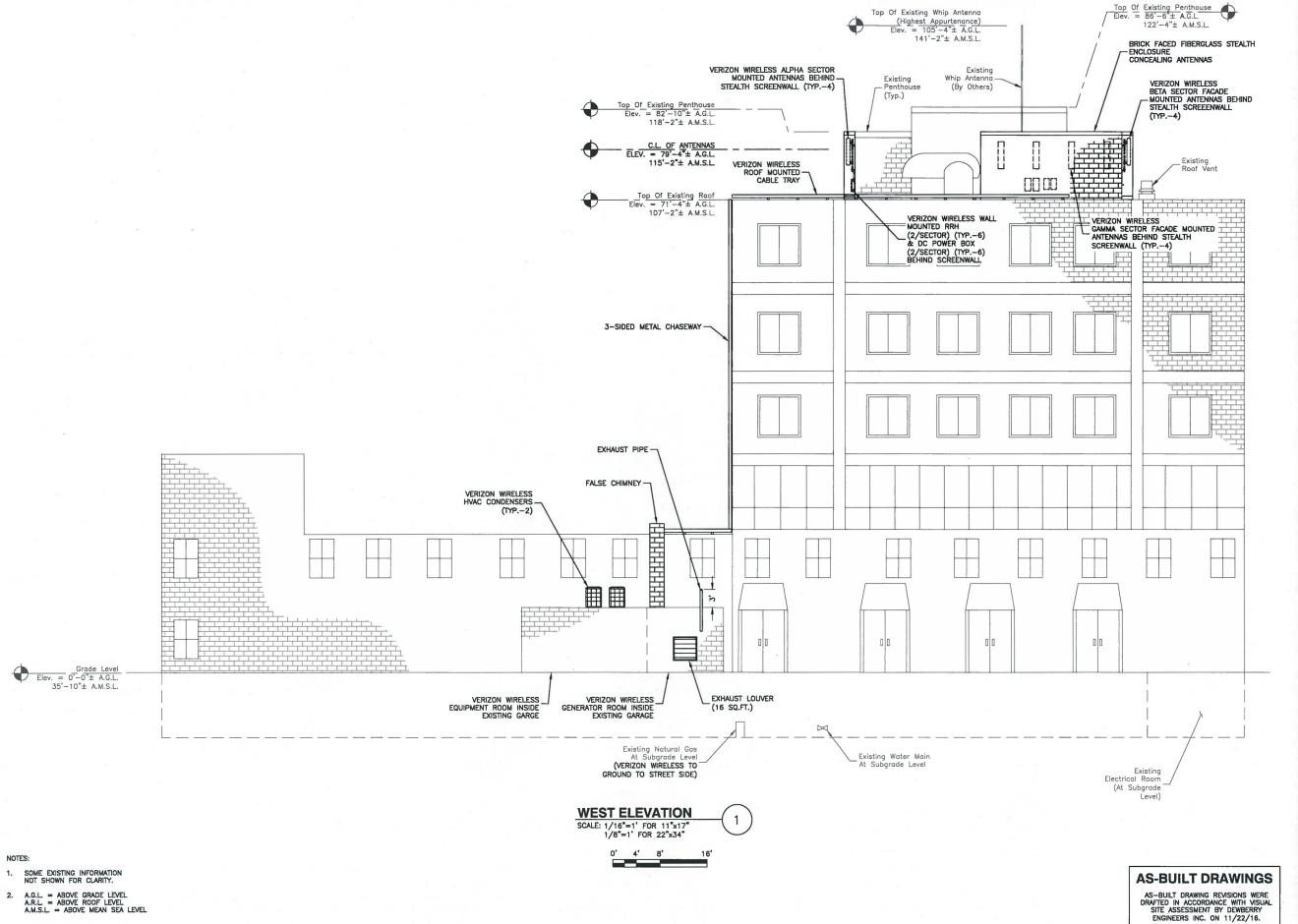
SITE ADDRESS:

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

NORTH ELEVATION

SHEET NUMBER





VERIZON WIRELESS 11B FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS				
2	01/13/17	FOR SUBMITTAL		
1	12/09/16	FOR SUBMITTAL		
0	12/01/16	FOR SUBMITTAL		

Dewberry*

Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617-895-3400 FAX: 617.695-3310



DRAWN BY:	MK
REVIEWED BY:	KB
CHECKED BY:	BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50070896

SITE ADDRESS:

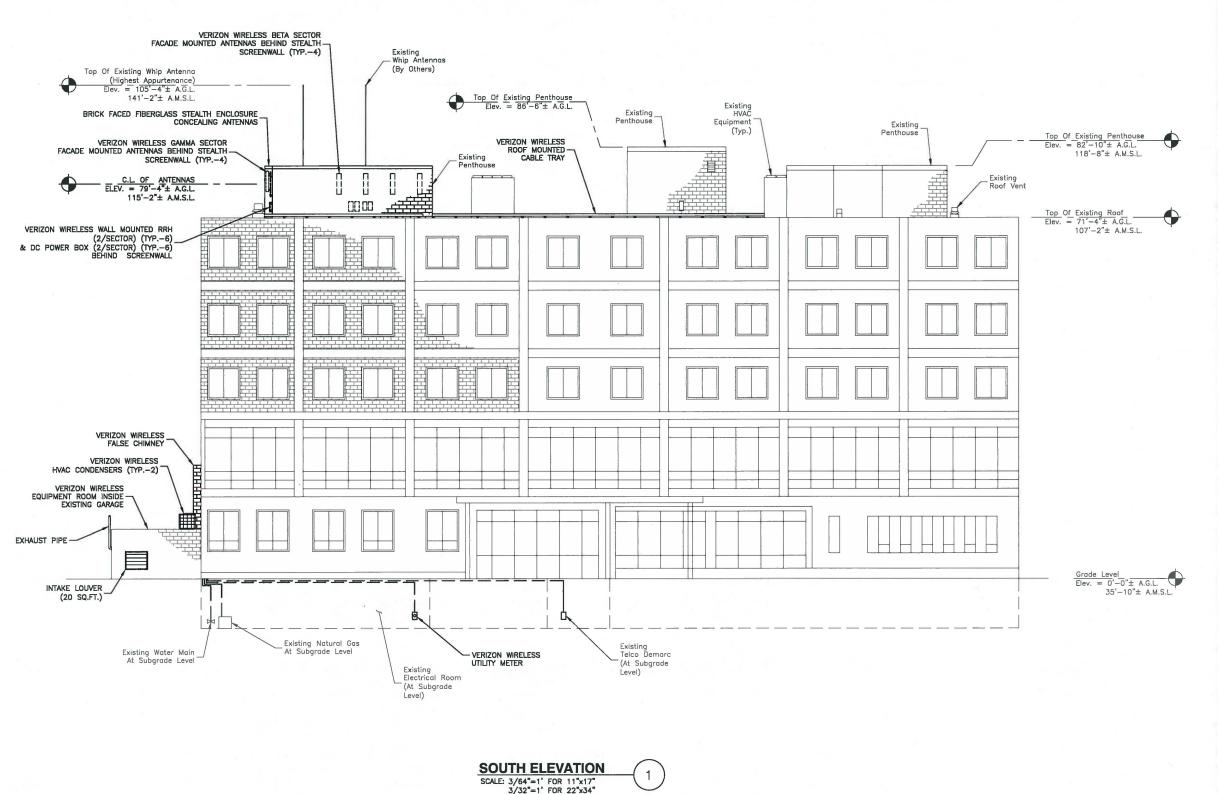
OHE POORE

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

WEST ELEVATION

SHEET NUMBER



NOTES:

 SOME EXISTING INFORMATION NOT SHOWN FOR CLARITY.

2. A.G.L. = ABOVE GRADE LEVEL
A.R.L. = ABOVE ROOF LEVEL
A.M.S.L. = ABOVE MEAN SEA LEVEL

AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.



VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

V	AS-BUILT DRAWINGS			
	2	01/13/17	FOR SUBMITTAL	
	1	12/09/16	FOR SUBMITTAL	
	0	12/01/16	FOR SUBMITTAL	



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



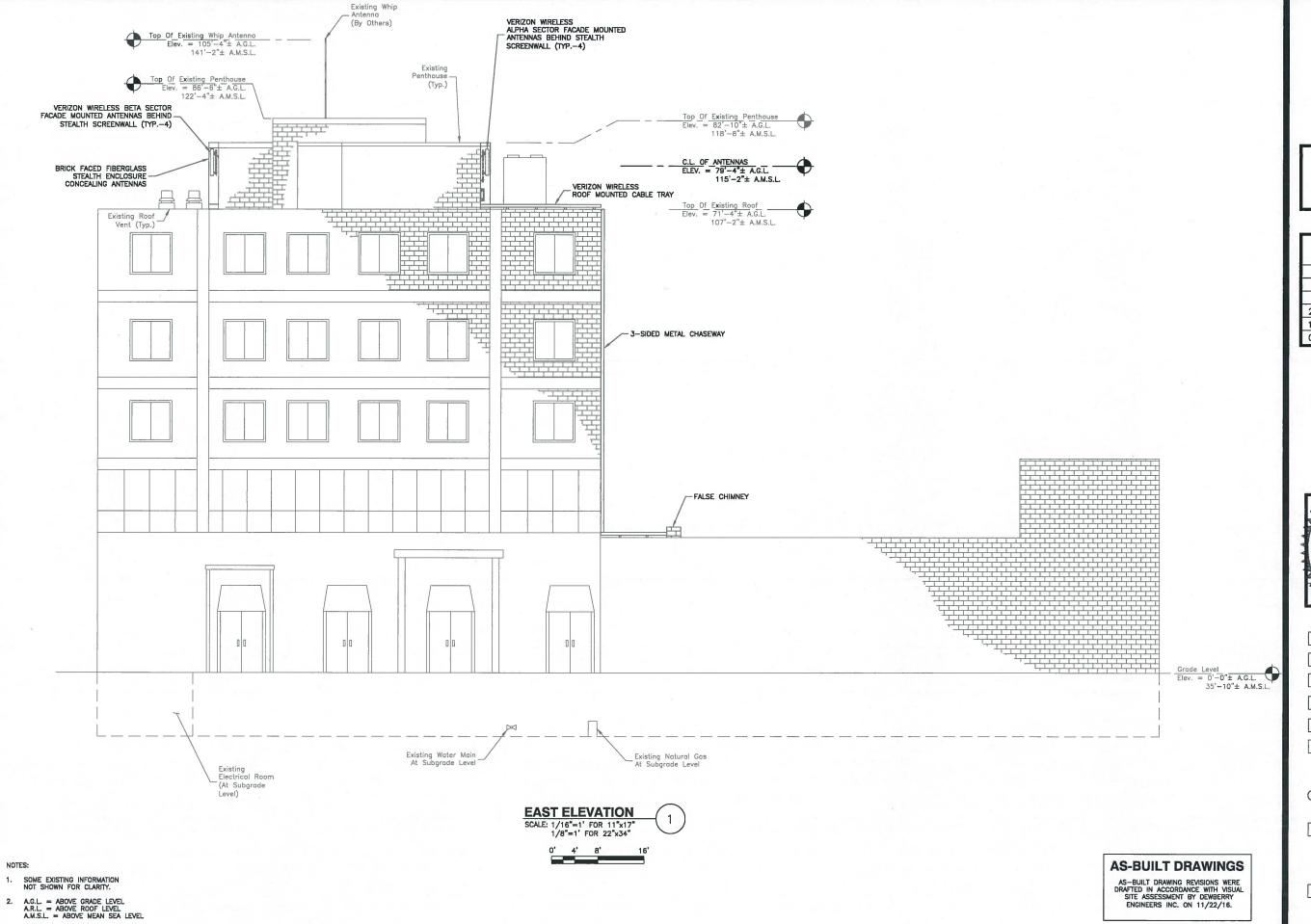
DRAWN BY:	MR
REVIEWED BY:	КВ
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50070896
SITE ADDRESS:	

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

SOUTH ELEVATION

SHEET NUMBER



verizon^v

VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS		
2	01/13/17	FOR SUBMITTAL
1	12/09/16	FOR SUBMITTAL
0	12/01/16	FOR SUBMITTAL



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	MR
REVIEWED BY:	КВ
CHECKED BY:	BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50070896

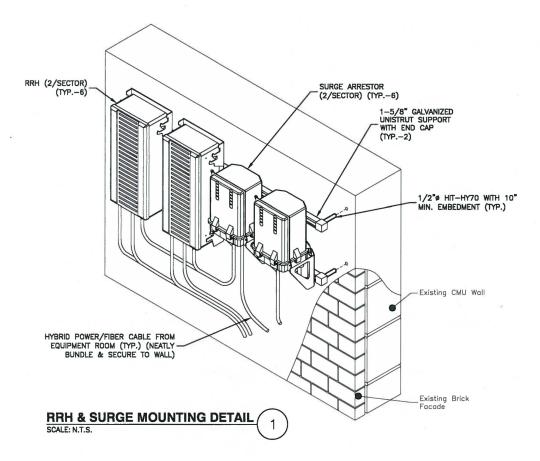
SITE ADDRESS:

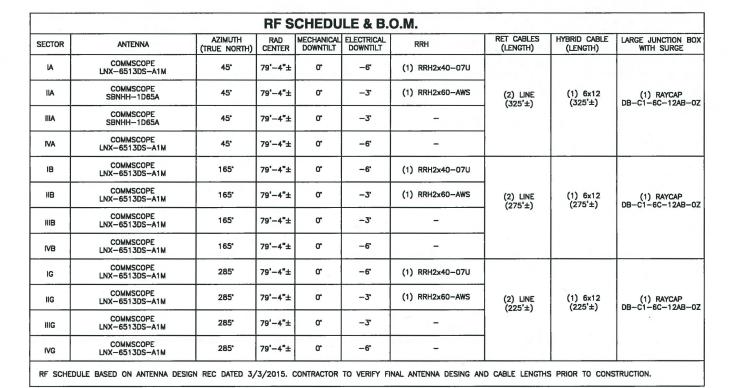
799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

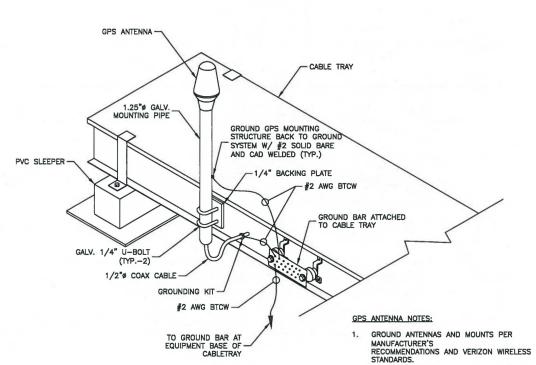
EAST ELEVATION

SHEET NUMBER





SCALE: N.T.S.



GPS ANTENNA MOUNT

Existing Ceiling opening (TO BE USED FOR HYBRID CABLE & HVAC LINES) BOOT & CUSHION ASSEMBLY, SEE -TABLE 1 LINES (TYP.) FRONT VIEW SECTION

NOTE: NON-RATED PENETRATION IN THIS INSTALLATION

TABLE 1		TAB	LE 2			
CABLE	MICROFLECT BOOT & CUSHION ASSEMBLY	No.	CABLES	MICROFLECT CABLE ENTRY PANEL	Α	В
1/2"ø	B1346A		4	B1199	17.5"	17.5
1 5/8"ø	B535A					

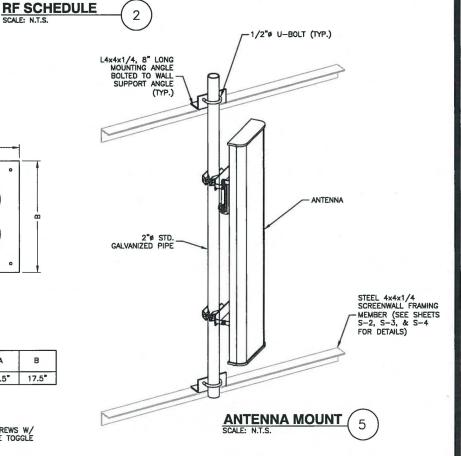
NOTES:

FIELD LOCATE GPS ANTENNAS A MINIMUM OF

10' HORIZONTALLY FROM OTHER GPS ANTENNAS, WITH VERIZON WIRELESS CM APPROVAL.

- 1. FASTEN CABLE ENTRY TO WALL W/ STAINLESS STEEL SCREWS W/
 LEAD SHIELD INSERTS INTO BRICK, MASONRY, CONC. USE TOGGLE BOLTS INTO STUD WALLS.
- DRILL HOLES 1/2" LARGER IN DIAMETER THAN CABLES THROUGH WALL/CEILING TO MATCH HOLES IN THE CABLE ENTRY.
- DETAIL BASED ON THE USE OF MICROFLECT AND HILTI.
 CONTRACTOR MAY SUBSTITUTE APPROVED EQUAL MATERIAL.

COAX CABLE WAVEPORT SCALE: N.T.S.



AS-BUILT DRAWINGS

AS-BUILT DRAWING REVISIONS WERE DRAFTED IN ACCORDANCE WITH VISUAL SITE ASSESSMENT BY DEWBERRY ENGINEERS INC. ON 11/22/16.



VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

AS-BUILT DRAWINGS				
2	01/13/17	FOR SUBMITTAL		
1	12/09/16	FOR SUBMITTAL		
0	12/01/16	FOR SUBMITTAL		



Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



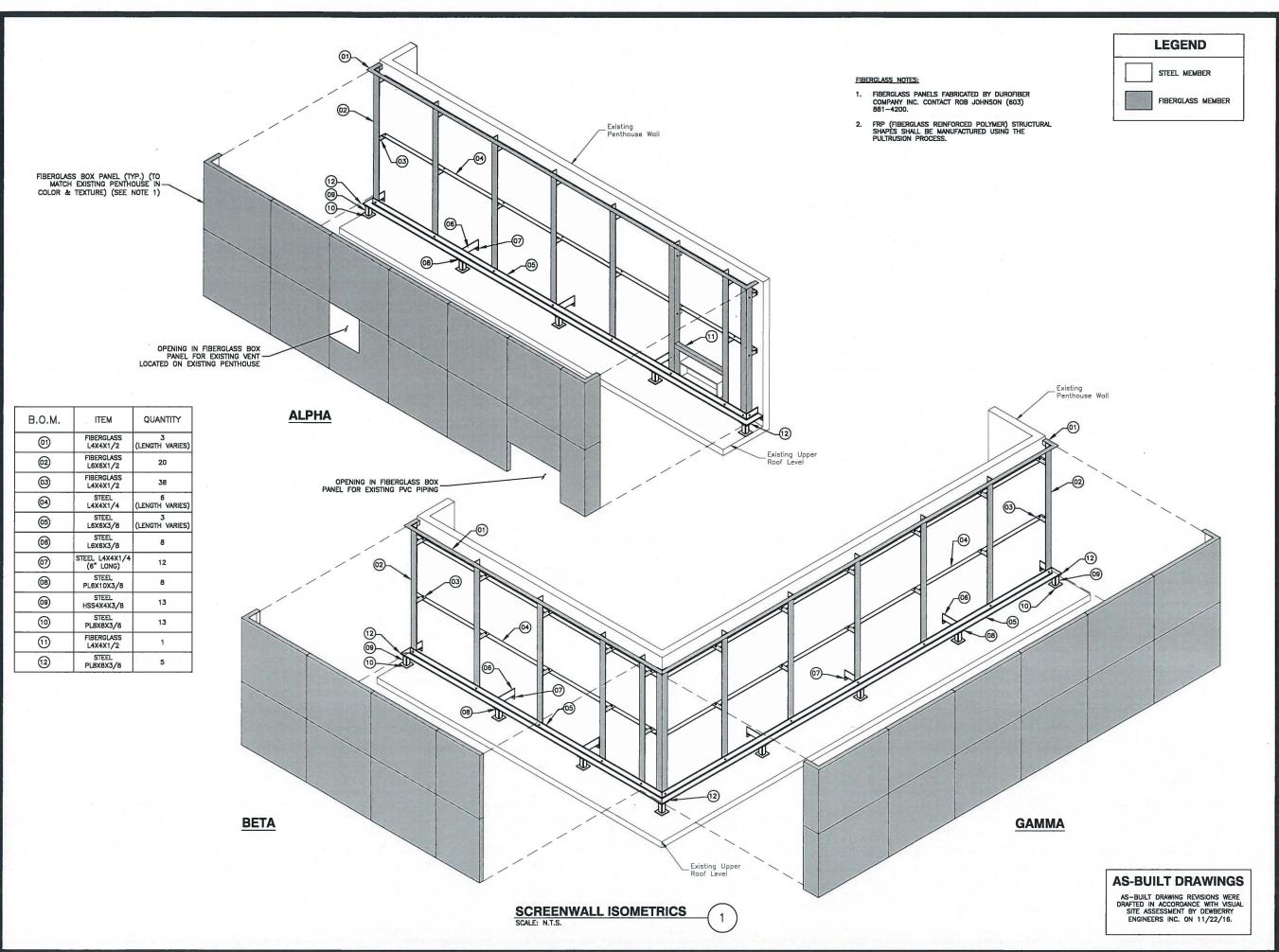
DRAWN BY:	MR
REVIEWED BY:	КВ
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50070896
SITE ADDRESS:	

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

ANTENNA MOUNTING **DETAILS**

SHEET NUMBER





VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581-3956

BELMONT 2 MA (SANCTA MARIA)

	AS-BUILT DRAWINGS			
1	2	01/13/17	FOR SUBMITTAL	
ı	1	12/09/16	FOR SUBMITTAL	
١	0	12/01/16	FOR SUBMITTAL	

Dewberry®

Dewberry Engineers Inc. 280 SUMMER STREET 10TH FLOOR BOSTON, MA 02210 PHONE: 617.695.3400 FAX: 617.695.3310



MR	
КВ	
BBR	
50002925	
50070896	

799 CONCORD AVE. CAMBRIDGE, MA 02138

SHEET TITLE

SCREENWALL ISOMETRICS

SHEET NUMBER

S-1

Cellular License - KNKA201 - Cellco Partnership

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

Market

Market CMA006 - Boston-Lowell-Brockton- Channel Block B

Lawrence-Haverhill, MA-NH

Submarket 0 Phase 2

Dates

Grant 08/26/2014 Expiration 10/01/2024

Effective 11/01/2016 Cancellation

Five Year Buildout Date

08/27/1989

Control Points

3 500 W. Dove Rd., TARRANT, Southlake, TX

P: (800)264-6620

Licensee

FRN 0003290673 Type General Partnership

Licensee

Cellco Partnership P:(770)797-1070 5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036

Alpharetta, GA 30022 E:LicensingCompliance@VerizonWireless.com

ATTN Regulatory

Contact

Cellco Partnership P:(770)797-1070 Licensing Manager F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering E:LicensingCompliance@VerizonWireless.com

Alpharetta, GA 30022

ATTN Regulatory

Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

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

Basic Qualifications

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

Demographics

Race

Ethnicity Gender

PCS Broadband License - KNLH242 - Cellco Partnership

Call Sign

KNLH242

Radio Service

CW - PCS Broadband

Status

Active

Auth Type

Regular

Market

Market

BTA051 - Boston, MA

Channel Block

F

Submarket

Associated

(MHz)

Frequencies

001890.00000000-001895.00000000 001970.00000000-

001975,00000000

Dates

Grant

07/23/2007

Expiration

06/27/2017

Effective

11/01/2016

Cancellation

Buildout Deadlines

1st

06/27/2002

2nd

Notification Dates

1st

05/17/2002

2nd

Licensee

FRN

0003290673

Type

Joint Venture

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

P:(770)797-1070

F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

Contact

Verizon Wireless Licensing - Manager

5055 North Point Pkwy, NP2NE Network Engineering

ATTN Regulatory

Alpharetta, GA 30022

P:(770)797-1070 F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

Is the applicant a foreign government or the representative of any

foreign government?

Is the applicant an alien or the representative of an alien?

No No

No

Is the applicant a corporation organized under the laws of any

foreign government?

No

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

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

Call Sign WQGA900 Radio Service AW - AWS (1710-1755 MHz and

2110-2155 MHz)

Status Active Auth Type Regular

Market

Market BEA003 - Boston-Worcester- Channel Block

Lawrence-Lowell-Brockton, MA-NH-

RI-VT

Submarket 1 Associated 001720.000000000

Frequencies 001730.00000000 (MHz) 002120.00000000 002130.00000000

В

Dates

Grant 11/29/2006 Expiration 11/29/2021

Effective 11/01/2016 Cancellation

Buildout Deadlines

1st 2nd

Notification Dates

1st 2nd

Licensee

FRN 0003290673 Type General Partnership

Licensee

Cellco Partnership P:(770)797-1070 5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036

Alpharetta, GA 30022 E:LicensingCompliance@VerizonWireless.com
ATTN Regulatory

Contact

 Cellco Partnership
 P:(770)797-1070

 Licensing Manager
 F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering E:LicensingCompliance@VerizonWireless.com

Alpharetta, GA 30022 ATTN Regulatory

Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

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

Basic Qualifications

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

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

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

Call Sign

WQGB266

Radio Service

AW - AWS (1710-1755 MHz and

2110-2155 MHz)

Status

Active

Auth Type

Regular

Market

Market

CMA006 - Boston-Lowell-Brockton-

Lawrence-Haverhill, MA-NH

Channel Block

Α

Submarket

0

Associated Frequencies

(MHz)

001710.00000000-001720.00000000 002110.00000000-

002120.00000000

Dates

Grant

11/29/2006

Expiration

11/29/2021

Effective

11/01/2016

Cancellation

Buildout Deadlines

1st

2nd

Notification Dates

1st

2nd

Licensee

FRN

0003290673

Type

General Partnership

Licensee

Cellco Partnership

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

ATTN Regulatory

P:(770)797-1070

F:(770)797-1036

E:LicensingCompliance@VerizonWireless.com

Contact

Cellco Partnership Licensing Manager

P:(770)797-1070 F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022 **ATTN Regulatory**

E:LicensingCompliance@VerizonWireless.com

Ownership and Qualifications

Radio Service Type

Mobile

Regulatory Status

Common Carrier

Interconnected

Yes

Alien Ownership

Is the applicant a foreign government or the representative of any

foreign government?

No

Is the applicant an alien or the representative of an alien?

No

Is the applicant a corporation organized under the laws of any

No

foreign government?

Is the applicant a corporation of which more than one-fifth of the

http://wireless2.fcc.gov/UIsApp/UIsSearch/license.jsp?licKey=2862977&printable

700 MHz Upper Band (Block C) License - WQJQ689 - Cellco Partnership

This license has pending applications: 0007581227

Call Sign WQJQ689 Radio Service WU - 700 MHz Upper Band (Block

C)

Status Active Auth Type Regular

Market

Market REA001 - Northeast Channel Block C

 Submarket
 0
 Associated
 000746.000000000

 Frequencies
 000757.00000000

(MHz) 000776.00000000-000787.00000000

Dates

Grant 11/26/2008 Expiration 06/13/2019

Effective 01/31/2017 Cancellation

Buildout Deadlines

1st 06/13/2013 2nd 06/13/2019

Notification Dates

1st 06/20/2013 2nd

Licensee

FRN 0003290673 Type General Partnership

Licensee

Cellco Partnership P:(770)797-1070 5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036

Alpharetta, GA 30022 E:LicensingCompliance@VerizonWireless.com
ATTN Regulatory

Contact

 Verizon Wireless
 P:(770)797-1070

 Licensing Manager
 F:(770)797-1036

5055 North Point Pkwy, NP2NE Network Engineering E:LicensingCompliance@VerizonWireless.com

Alpharetta, GA 30022 ATTN Regulatory

Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

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

Basic Qualifications

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

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.