



# CITY OF CAMBRIDGE

BOARD OF ZONING APPEAL

831 Massachusetts Avenue, Cambridge MA 02139

617-349-6100

2021 SEP 13 PM 3:54

OFFICE OF THE CITY CLERK  
CAMBRIDGE, MASSACHUSETTS

## BZA Application Form

**BZA Number: 142993**

### General Information

The undersigned hereby petitions the Board of Zoning Appeal for the following:

Special Permit:  X

Variance:

Appeal:

**PETITIONER:** Cellco Partnership d/b/a Verizon Wireless C/O Duval & Klasnick LLC, P. O. Box 254, Boxford, MA 01921

**PETITIONER'S ADDRESS:** Duval & Klasnick LLC, MA, Boxford 01921

**LOCATION OF PROPERTY:** 700-704 700 Huron Ave., Cambridge, MA

**TYPE OF OCCUPANCY:** Mobile Communications Facility

**ZONING DISTRICT:** Residence C-3 Zone

### **REASON FOR PETITION:**

/Telecommunication Facility (antenna)/

### **DESCRIPTION OF PETITIONER'S PROPOSAL:**

Modify the existing wall mounted enclosed antennas through relocation of 3 antennas and replacement of 9 antennas with remote radio heads inside of three enlarged replacement fiberglass enclosures colored to match and mounted to the side of the building.

### **SECTIONS OF ZONING ORDINANCE CITED:**

- Article: 4.000 Section: 4.32.G.1 (Telecommunication Facility).
- Article: 4.000 Section: 4.40 (Footnote #49 - Telecommunications Facility).
- Article: 10.000 Section: 10.40-10.46 (Special Permit)
- Article: 6409(a) Section: Middle Class Tax Relief and Job Creation Act (aka Spectrum Act)

Original  
Signature(s):

(Petitioner (s) / Owner)

Daniel D. Klasnick

(Print Name)

Address:

Duval & Klasnick LLC  
P.O. Box 254  
Boxford, MA 01921

Tel. No. 781-873-0021  
E-Mail Address: [dklasnick@dkl-legal.com](mailto:dklasnick@dkl-legal.com)

Date: September 10, 2021

**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 Parkside Place Company Limited Partnership  
(OWNER)

Address: c/o First Realty Management Corp., 151 Tremont Street, Boston, MA 02111

State that I/We own the property located at 700-704 Huron Avenue, which is the subject of this zoning application.

The record title of this property is in the name of Parkside Place Company Limited Partnership f/k/a Huron Towers Company

\*Pursuant to a deed of duly recorded in the date 4/16/1970, Middlesex South County Registry of Deeds at Book 11821, Page 356; or Middlesex Registry District of Land Court, Certificate No. \_\_\_\_\_ Book \_\_\_\_\_ Page \_\_\_\_\_.

DocuSigned by:  
Bill Kargman  
SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT\*

\*Written evidence of Agent's standing to represent petitioner may be requested.

Commonwealth of Massachusetts, County of Suffolk

The above-name (William) Bill Kargman personally appeared before me, this 06 of August, 2021, and made oath that the above statement is true.

Donna M Pedersen Notary

My commission expires 01/24/25 (Notary Seal).

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





## 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 <sup>700-704</sup> 700 Huron Ave., Cambridge, MA (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 provided with this application and will be further discussed at the hearing on this matter, the modification satisfies the standards for an Eligible Facilities Request pursuant to Section 6409(a) of the Federal Spectrum Act. The proposed modification also satisfies the standards for the grant of a special permit. (For further details, please see attached narrative and supporting documents)

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 modification of the unmanned facility will not change existing traffic demand or impact ingress or egress. The modified facility will continue to generate only about one to two vehicles trips per month in a standard passenger vehicle. (For further details, please see attached narrative and supporting documents)

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 modified facility will have no adverse effects on the operation or development of adjacent uses. The modified facility will emit no light, odor, dust or glare and generates no unusual noise or other adverse impacts. (For further details, please see attached narrative and supporting documents)

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 modified facility will generate no additional traffic or other negative impacts on surrounding properties or within the City of Cambridge. The facility requires no water or sewer services and emits no light, odor, dust or glare and generates no unusual noise or other adverse impacts. The facility will be unoccupied with no employees or customers. The availability of wireless services enhances the health, safety and welfare of the community. (For further details, please see attached narrative and supporting documents)

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 facility has been designed to minimize its visual impact and is in harmony with the general purpose of the zoning ordinance for this use and in accordance with the requirements for an Eligible Facilities Request under Section 6409(a). (Please see attached narrative and supporting documents)

**\*If you have any questions as to whether you can establish all of the applicable legal requirements, you should consult with an attorney.**

**BZA Application Form**

**DIMENSIONAL INFORMATION**

**Applicant:** Cellco Partnership d/b/a Verizon Wireless

**Present Use/Occupancy:** Mobile Communications Facility

**Location:** Duval & Klasnick LLC

**Zone:** Residence C-3 Zone

**Phone:** 781-873-0021

**Requested Use/Occupancy:** Mobile Communications Facility

	<b><u>Existing Conditions</u></b>	<b><u>Requested Conditions</u></b>	<b><u>Ordinance Requirements</u></b>	
<b><u>TOTAL GROSS FLOOR AREA:</u></b>	N/A	N/A	N/A	(max.)
<b><u>LOT AREA:</u></b>	N/A	N/A	N/A	(min.)
<b><u>RATIO OF GROSS FLOOR AREA TO LOT AREA:</u></b>	N/A	N/A	N/A	
<b><u>LOT AREA OF EACH DWELLING UNIT</u></b>	N/A	N/A	N/A	
<b><u>SIZE OF LOT:</u></b>				
WIDTH	N/A	N/A	N/A	
DEPTH	N/A	N/A	N/A	
<b><u>SETBACKS IN FEET:</u></b>				
FRONT	N/A	N/A	N/A	
REAR	N/A	N/A	N/A	
LEFT SIDE	N/A	N/A	N/A	
RIGHT SIDE	N/A	N/A	N/A	
<b><u>SIZE OF BUILDING:</u></b>				
HEIGHT	N/A	N/A	N/A	
WIDTH	N/A	N/A	N/A	
<b><u>RATIO OF USABLE OPEN SPACE TO LOT AREA:</u></b>	N/A	N/A	N/A	
<b><u>NO. OF DWELLING UNITS:</u></b>	N/A	N/A	N/A	
<b><u>NO. OF PARKING SPACES:</u></b>	N/A	N/A	N/A	
<b><u>NO. OF LOADING AREAS:</u></b>	N/A	N/A	N/A	
<b><u>DISTANCE TO NEAREST BLDG. ON SAME LOT</u></b>	N/A	N/A	N/A	

Describe where applicable, other occupancies on the same lot, the size of adjacent buildings on same lot, and type of construction proposed, e.g; wood frame, concrete, brick, steel, etc.

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'.



# CAMBRIDGE W MA

700-704 HURON AVENUE  
CAMBRIDGE, MA 02138

FUZE PROJECT ID: 16230082

PSLC: 185769



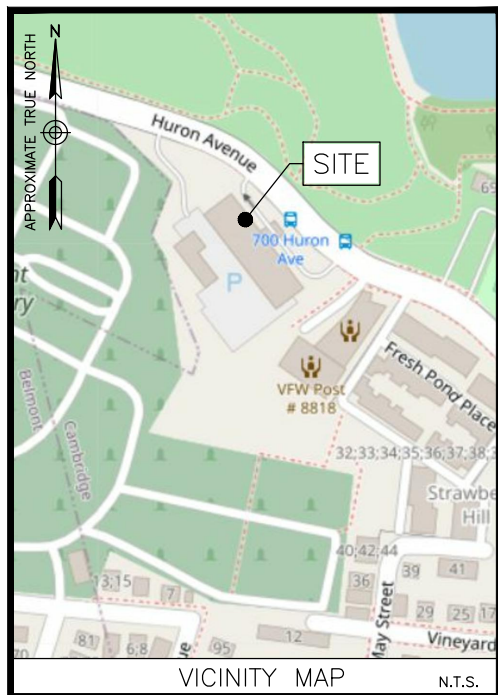
VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

CAMBRIDGE W MA

ANTMO DRAWINGS		
1	08/18/21	FOR SUBMITTAL
0	07/20/21	FOR SUBMITTAL
A	04/27/21	FOR REVIEW



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



**ENGINEER**  
DEWBERRY ENGINEERS INC.  
99 SUMMER ST.  
SUITE 700  
BOSTON, MA 02110  
PHONE # (617) 531-0800  
CONTACT: BENJAMIN REVETTE, PE

**CONSTRUCTION**  
VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

**COORDINATES\*:**  
LATITUDE: 42° 22' 50.9" N  
LONGITUDE: 71° 09' 16.7" W  
\*PER RFDS

**GROUND ELEVATION\*:**  
33'±  
\*PER GOOGLE EARTH

PROJECT INFORMATION

PMI ACCESSED AT: N/A  
SMART TOOL VENDOR: N/A  
PROJECT NUMBER:  
VZW LOCATION CODE (PSLC): 185769  
FUZE NUMBER: 16230082

MOUNT MODIFICATION REQUIRED? YES

CONTRACTOR PMI REQUIREMENTS

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.

- REMOVE (3) EXISTING ANTENNA ENCLOSURES & REPLACE WITH (3) NEW ANTENNA ENCLOSURES ACCORDING TO STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS DATED 04/23/21.
- REMOVE (9) EXISTING ANTENNAS FROM EXISTING PIPE MOUNT INSIDE EXISTING ENCLOSURE.
- INSTALL (3) NEW VZS01 ANTENNAS ON PROPOSED PIPE MOUNT INSIDE PROPOSED ENCLOSURE.
- INSTALL (6) NEW PANEL ANTENNAS ON PROPOSED PIPE MOUNT INSIDE PROPOSED ENCLOSURE.
- REMOVE (9) EXISTING RRHS ON EXISTING PIPE MOUNT INSIDE PROPOSED ENCLOSURE.
- INSTALL (6) NEW DUAL BAND RRHS ON PIPE MOUNT INSIDE PROPOSED ENCLOSURE.
- REPLACE (1) EXISTING 6x12 HYBRID WITH (1) NEW 6x12 HYBRID CABLE ROUTED FROM THE EQUIPMENT SHELTER AT GRADE TO THE SECTOR OVP FOR GAMMA SECTOR.
- REPLACE (1) EXISTING OVP WITH (1) NEW OVP FOR GAMMA SECTOR.
- CAP AND WEATHER PROOF UNUSED ANTENNA PORTS.
- INSTALL JUMPERS AS REQUIRED.

NOTE:  
1. SCOPE OF WORK BASED ON ANTENNA REC FOR "CAMBRIDGE\_W\_MA" DATED 10/30/2020. VERIFY SCOPE OF WORK WITH FINAL RFDS PRIOR TO CONSTRUCTION.

SCOPE OF WORK

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	ROOF PLAN
C-2	ELEVATION & PROPOSED EQUIPMENT SHROUD DETAIL
C-3	CONSTRUCTION DETAILS
C-4	FINAL EQUIPMENT CONFIGURATION
S-1	SCREENWALL DETAILS - I
S-2	SCREENWALL DETAILS - II

SHEET INDEX

DRAWN BY: JG  
REVIEWED BY: CDH  
CHECKED BY: BBR  
PROJECT NUMBER: 50121487  
JOB NUMBER: 50121839  
SITE ADDRESS:

700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE  
TITLE SHEET  
SHEET NUMBER



## GENERAL CONSTRUCTION NOTES :

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH VERIZON WIRELESS SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
- ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.

## CODE SPECIFICATIONS:

- ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:  
MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION, CONSISTENT WITH THE FOLLOWING CODES:  
2015 INTERNATIONAL RESIDENTIAL CODE (IRC)  
2015 INTERNATIONAL BUILDING CODE (IBC)  
2015 INTERNATIONAL EXISTING BUILDING CODE (IBC)  
2020 NATIONAL ELECTRICAL CODE (NEC)  
  
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.
- ALL STRUCTURAL WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 13TH EDITION (AISC 13TH ED.)
- ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 301) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 318) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- ALL REINFORCING STEEL WORK TO BE DONE IN ACCORDANCE WITH THE (ACI 315) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

## GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
- GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.

## STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:  
ASTM A-992, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.  
ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.  
ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, ROUND)  
ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.  
F1554, GRADE 36 ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE.  
ASTM A-53, GRADE B STEEL PIPE
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS, PRIOR TO COMPLETION OF WORK. TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- ALL WELDED COMPONENTS TO BE SHOP WELDED PRIOR TO INSTALLATION. NO WELDING ACTIVITIES IS PERMITTED DURING INSTALLATION OF PROPOSED EQUIPMENTS AND/OR HARDWARE ON SITE.

## POST-INSTALLED HILTI ANCHORS NOTES:

- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE ICC-ES REPORT AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS:

APPLICATION	ANCHORING SYSTEM	ICC-ES REPORT
ANCHORAGE TO CONCRETE	HILTI HY 200 ADHESIVE	ESR-3814
	HILTI RE 500 V3 ADHESIVE	ESR-4266
	HILTI KWIK BOLT TZ2	ESR-3027
	HILTI KWIK HUS EZ	ESR-1545
	HILTI HSL-3	ESR-1546
REBAR DOWELING	HILTI RE 500 V3 ADHESIVE W/ SAFE SET INSTALLATION	ESR-3187
	HILTI HY 200 V3 ADHESIVE W/ SAFE SET INSTALLATION	ESR-4143
ANCHORAGE TO SOLID GROUDED MASONRY	HILTI HY 270 ADHESIVE	ESR-4561
	HILTI KWIK BOLT TZ2	ESR-4561
ANCHORAGE TO HOLLOW/MULTI-WYTHE MASONRY	HILTI HY 270 ADHESIVE WITH SCREEN TUBE	ESR-4143, ESR-4144

- ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT INCLUDING AN ICC-ES REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, ETC.
- ADHESIVE ANCHORS INSTALLED IN A HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION INTO CONCRETE AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. INSTALLER SHALL BE CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL.
- CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE ANCHOR INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. CONTRACTOR SHALL SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE RECEIVED THE REQUIRED TRAINING PRIOR TO THE COMMENCEMENT OF WORK.
- ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.3/4.4 OF THE ICC-ES REPORT FOR THE INDIVIDUAL ANCHOR. SPECIAL INSPECTOR SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION EFFORTS.
- POST INSTALLED ADHESIVE ANCHORS ARE NOT PERMITTED TO BE INSTALLED IN MORTAR JOINTS. ALL ANCHORS TO BE INSTALLED WITHIN THE FACE OF MASONRY UNIT.



VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

CAMBRIDGE W MA

ANTMO DRAWINGS

1	08/18/21	FOR SUBMITTAL
0	07/20/21	FOR SUBMITTAL
A	04/27/21	FOR REVIEW



Dewberry Engineers Inc.

99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: JG

REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50121839

SITE ADDRESS:

700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1





VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

CAMBRIDGE W MA

ANTMO DRAWINGS

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JOB NUMBER:	50121839
SITE ADDRESS:	

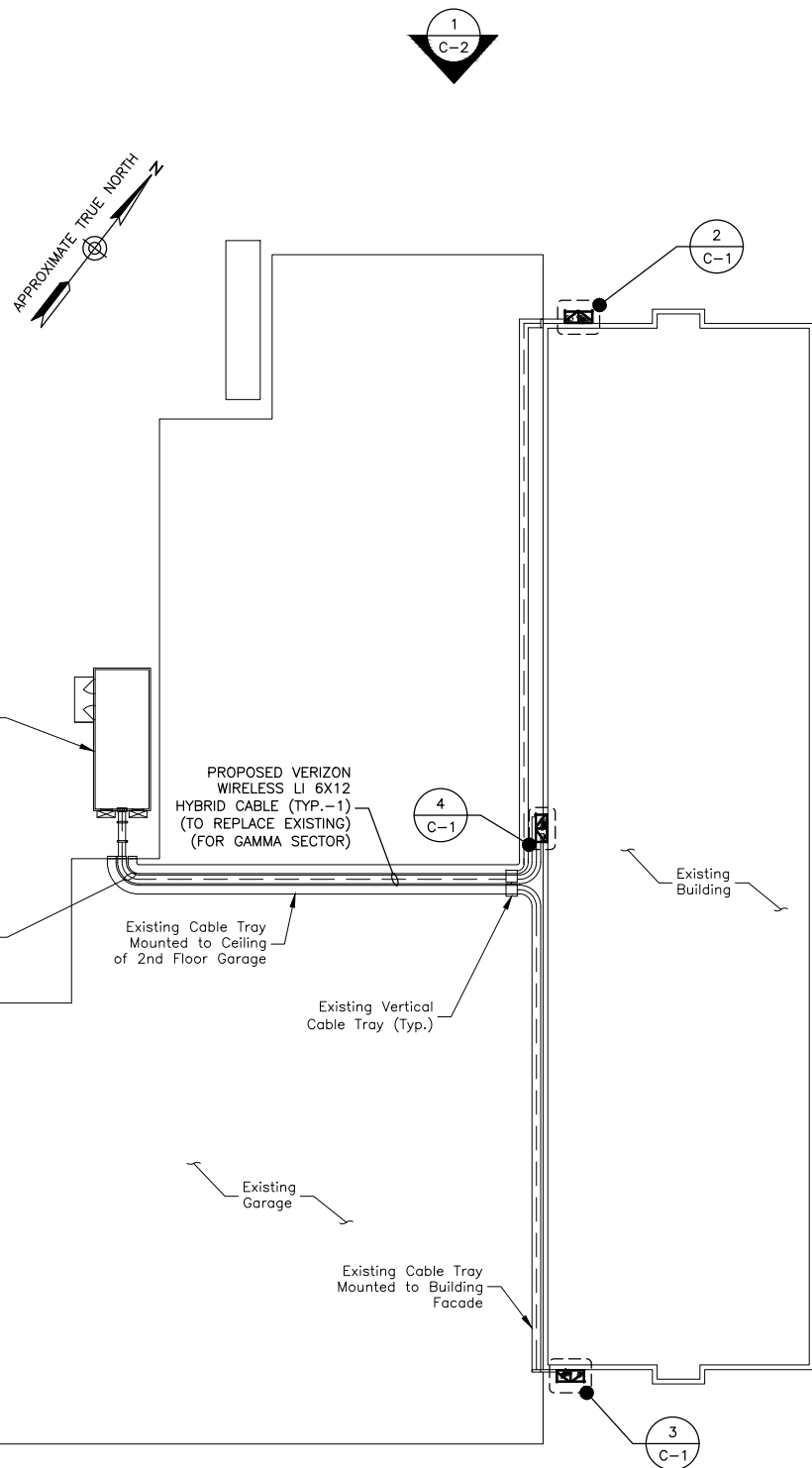
700-704 HURON AVE  
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SHEET TITLE

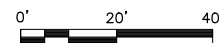
ROOF PLAN

SHEET NUMBER

C-1



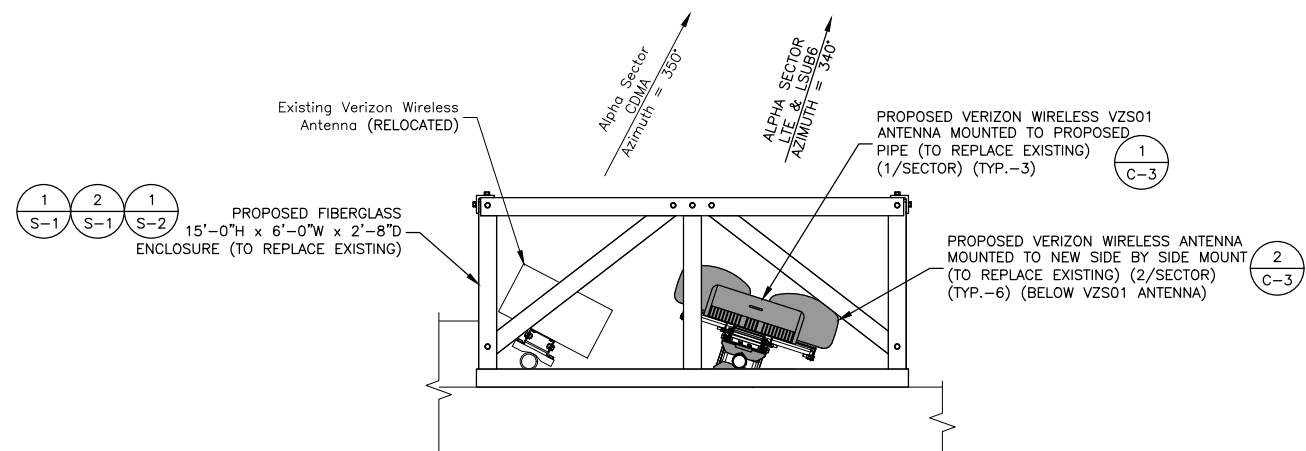
**ROOF PLAN**  
SCALE: 1"=40' FOR 11"x17"  
1"=20' FOR 22"x34"



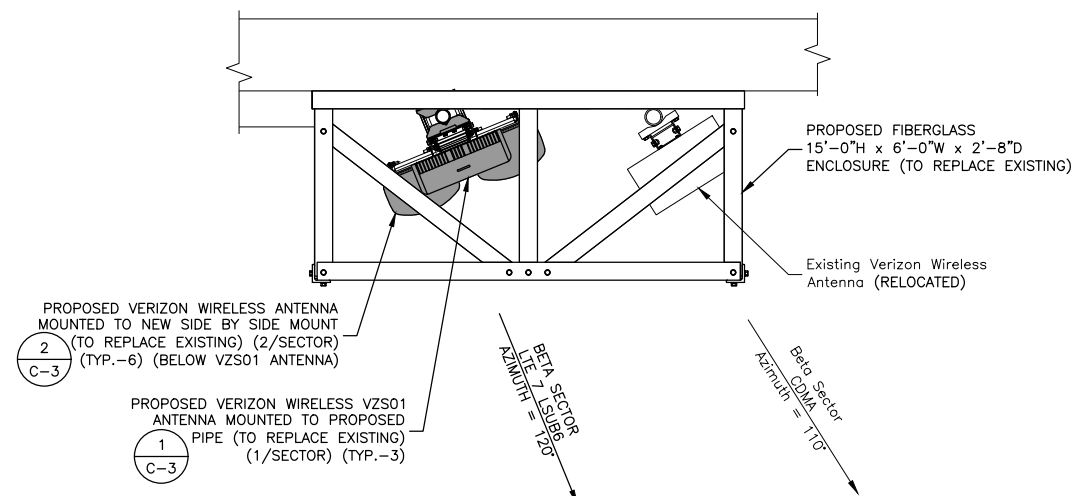
NOTES:

- SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- NORTH SHOWN AS APPROXIMATE.
- PLANS BASED ON ENGINEER SITE VISIT ON 11/05/20.
- REUSE EXISTING COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED.
- ALL PROPOSED EQUIPMENT TO BE INSTALLED PER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 04/23/21.

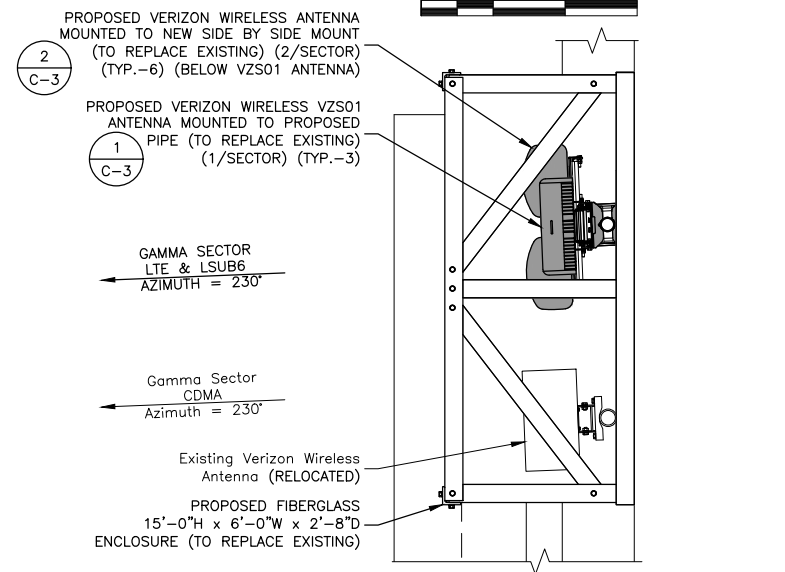
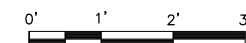
HURON AVENUE



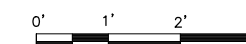
**ALPHA SECTOR ANTENNA PLAN**  
SCALE: 3/8"=1' FOR 11"x17"  
3/4"=1' FOR 22"x34"



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



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





VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

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ANTMO DRAWINGS

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A	04/27/21	FOR REVIEW



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JOB NUMBER:	50121839
SITE ADDRESS:	

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CAMBRIDGE, MA 02138

SHEET TITLE

ELEVATION & PROPOSED  
EQUIPMENT SHROUD DETAIL

SHEET NUMBER

C-2

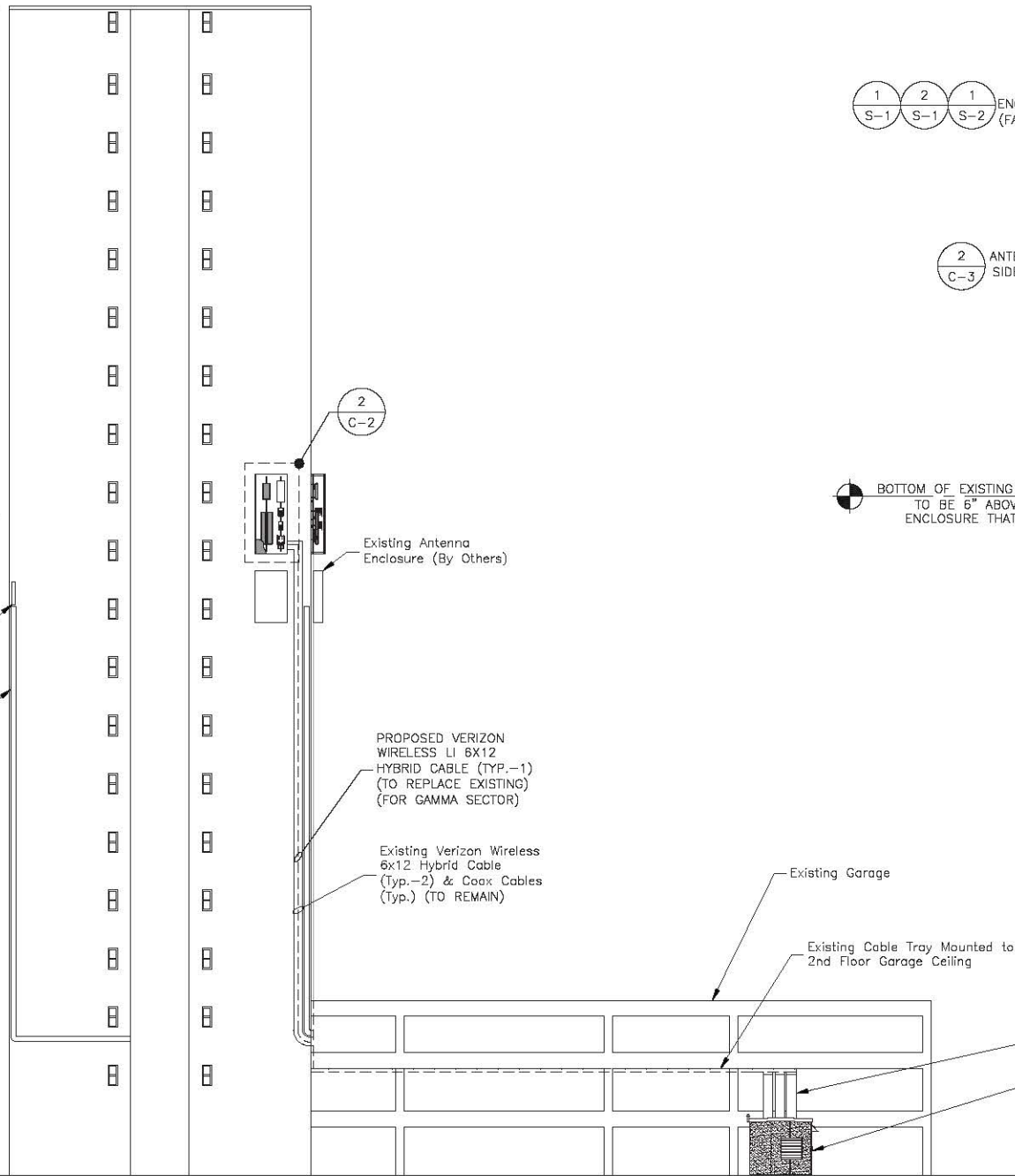
Existing Roof Level  
(Highest Appurtenance)  
Elev. = 220'-0"± A.G.L.

C.L. OF Existing/PROPOSED VERIZON  
WIRELESS ANTENNAS  
VZS01 ELEV. = 129'-0"± A.G.L.  
CDMA PANEL ELEV. = 129'-0"± A.G.L.  
LTE PANEL ELEV. = 122'-2"± A.G.L.

Existing Garage Roof  
Elev. = 33'-0"± A.G.L.

Existing Grade  
Elev. = 0'-0"± A.G.L.

A.G.L. = ABOVE GRADE LEVEL  
C.L. = CENTER LINE

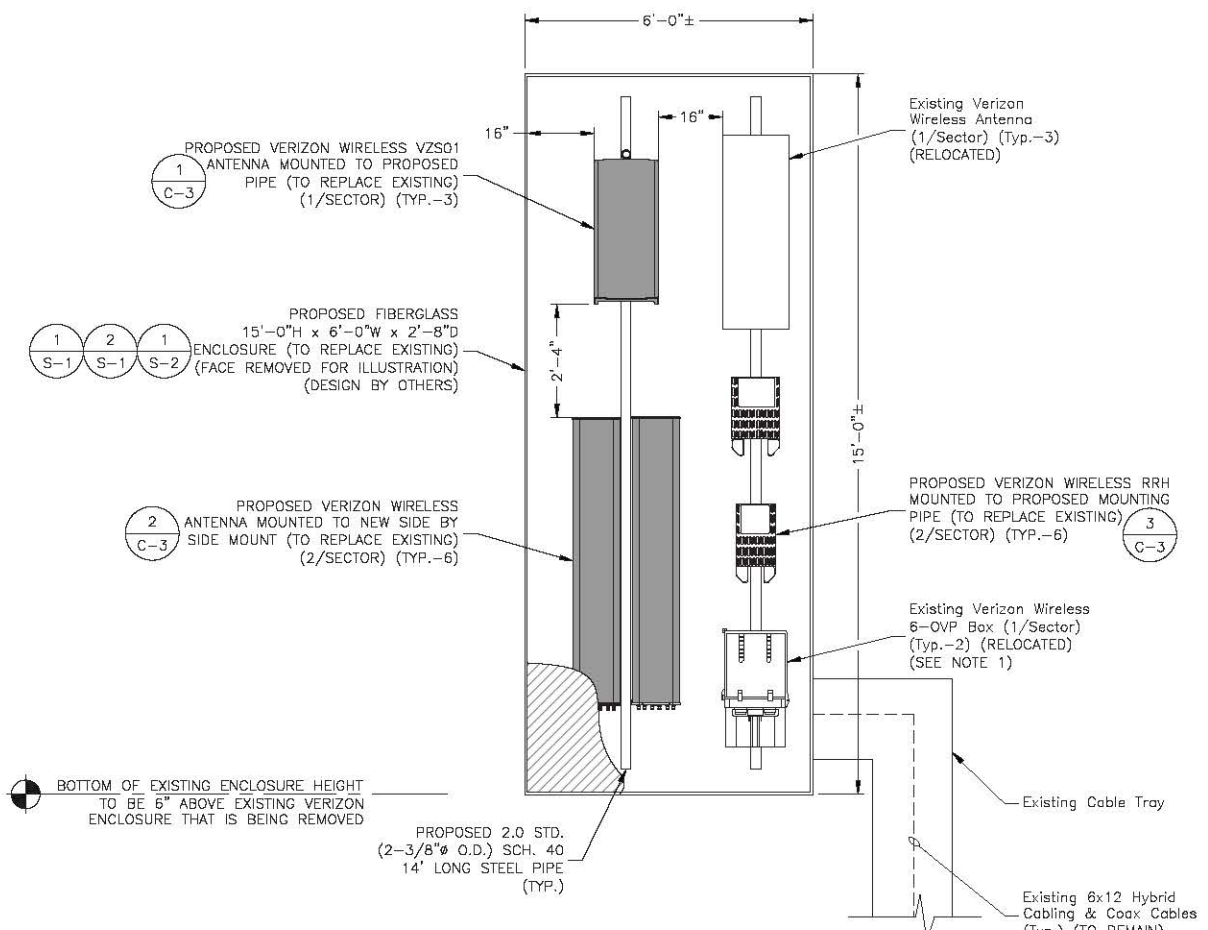


**ELEVATION**

SCALE: 1/32"=1' FOR 11"x17"  
1/16"=1' FOR 22"x34"



1



**NOTES:**

- FOR GAMMA SECTOR CONTRACTOR TO REPLACE THE EXISTING OVP.

**PROPOSED EQUIPMENT SHROUD DETAIL**

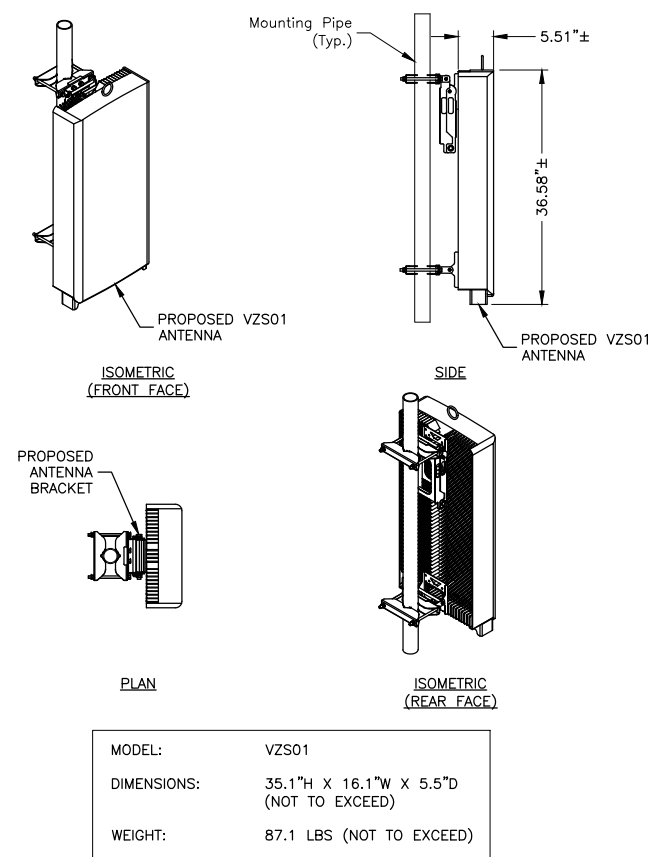
SCALE: 1/4"=1' FOR 11"x17"  
1/2"=1' FOR 22"x34"



2

**NOTES:**

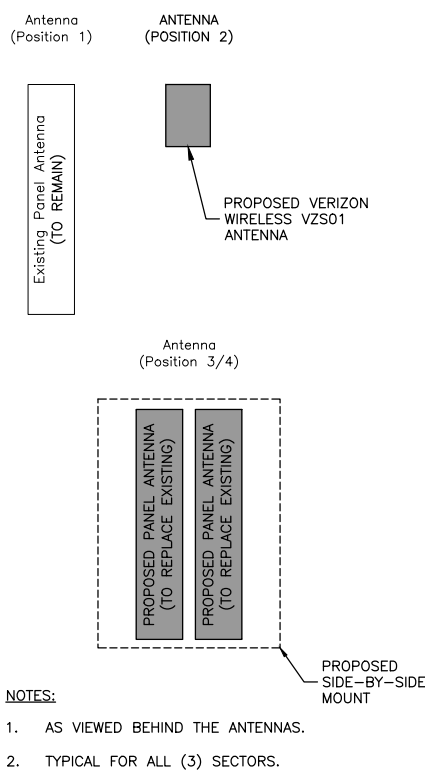
- SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- ELEVATION SHOWN AS APPROXIMATE.
- PLANS BASED ON ENGINEER SITE VISIT ON 11/05/20.
- REUSE EXISTING COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED.
- ALL PROPOSED EQUIPMENT TO BE INSTALLED PER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 04/23/21.



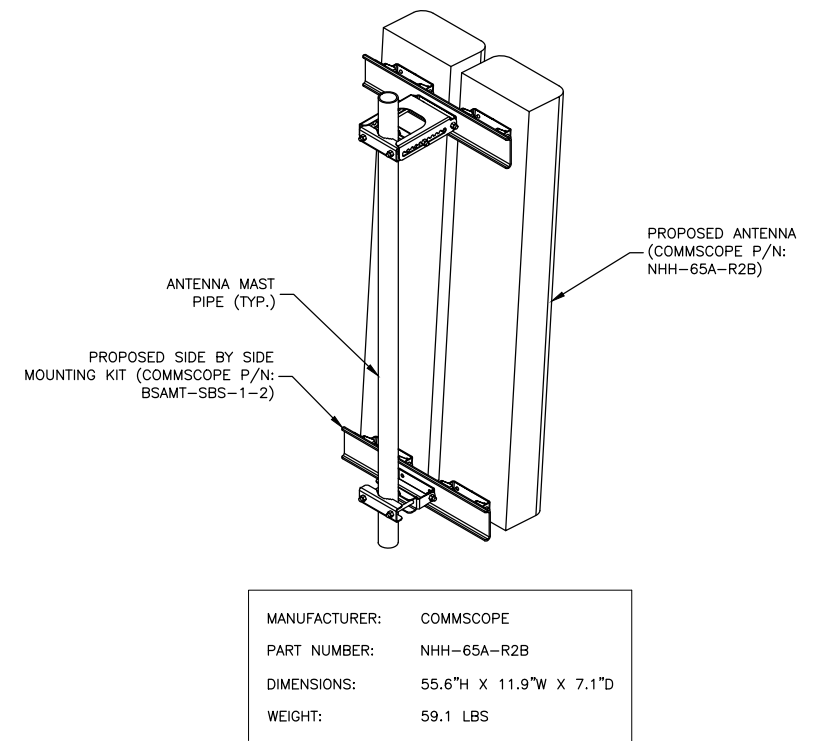
**NOTES:**

- INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.

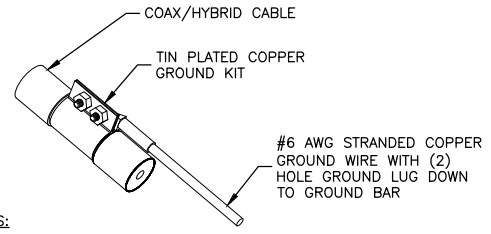
**PIPE MOUNTED ANTENNA DETAIL**  
SCALE: N.T.S.



**ANTENNA CONFIGURATION**  
SCALE: N.T.S.



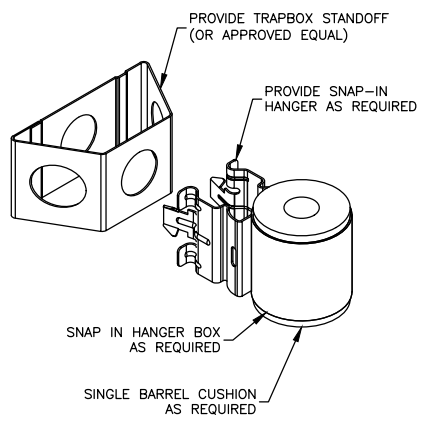
**ANTENNA DETAIL**  
SCALE: N.T.S.



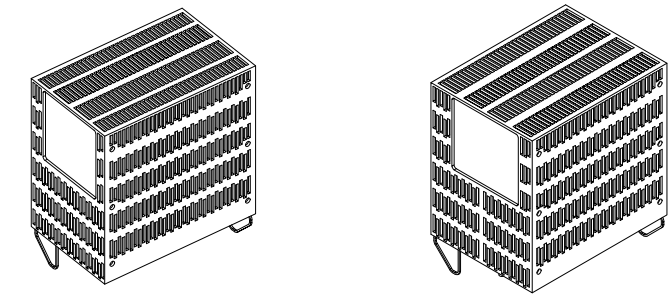
**NOTES:**

- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
- WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
- COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER SPECIFICATIONS & STANDARDS.

**COAX/HYBRID GROUNDING DETAIL**  
SCALE: N.T.S.



**JUMPER MOUNT**  
SCALE: N.T.S.



**LTE 700/850 PROPOSED**

MANUFACTURER:	SAMSUNG
MODEL:	700/850 RRH
DIMENSIONS:	15.0"H X 15.0"W X 8.1"D
WEIGHT:	82.0 LBS

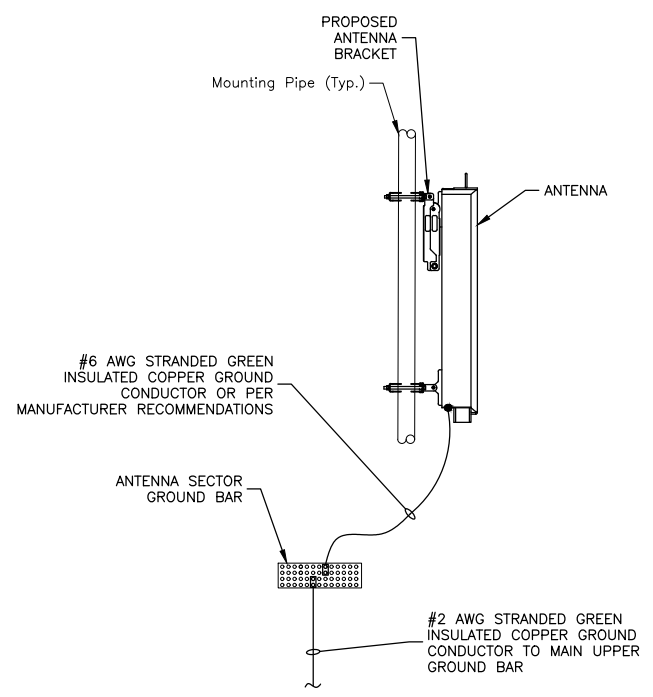
**LTE PCS/AWS PROPOSED**

MANUFACTURER:	SAMSUNG
MODEL:	LTE PCS/AWS RRH
DIMENSIONS:	15.0"H X 15.9"W X 10.0"D
WEIGHT:	97.5 LBS

**NOTE:**

- CONTRACTOR TO VERIFY WITH CONSTRUCTION MANAGER FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

**REMOTE UNIT DETAILS**  
SCALE: N.T.S.



**NOTES:**

- VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
- BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

**TYPICAL ANTENNA GROUNDING DETAIL**  
SCALE: N.T.S.

**CAMBRIDGE W MA**

ANTMO DRAWINGS

1	08/18/21	FOR SUBMITTAL
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A	04/27/21	FOR REVIEW

**Dewberry**  
Dewberry Engineers Inc.  
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FAX: 617.695.3310



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PROJECT NUMBER:	50121487
JOB NUMBER:	50121839
SITE ADDRESS:	

700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER





VERIZON WIRELESS  
118 FLANDERS ROAD  
WESTBOROUGH, MA 01581-3956

**CAMBRIDGE W MA**

ANTMO DRAWINGS		
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FINAL EQUIPMENT CONFIGURATION										
SECTOR	POSITION	TECHNOLOGY	ANTENNA MODEL	VENDOR	RRH (QTY./MODEL)	CENTERLINE	AZIMUTH	OVP	HYBRID CABLE TYPE	FEED LINE LENGTH*
ALPHA	A1	5G	(P) VZS01	SAMSUNG	(1) (P) VZS01	129'-0"±	340'	(1) (E) OVP BOX TO REMAIN	(1) (E) 6X12 HYBRID CABLE TO REMAIN	425'±
	A2	CDMA 850	(E) SA14-60-6D (294829)	CSS	-	129'-0"±	350'			
	A3	LTE 700/LTE 850	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B13 RFG01U-D2A	122'-2"±	340'			
	A4	LTE 1900/LTE AWS	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B66A RFG01U-D1A	122'-2"±	340'			
BETA	B1	5G	(P) VZS01	SAMSUNG	(1) (P) VZS01	129'-0"±	120'	(1) (E) OVP BOX TO REMAIN	(1) (E) 6X12 HYBRID CABLE TO REMAIN	420'±
	B2	CDMA 850	(E) SA14-60-6D (294829)	CSS	-	129'-0"±	110'			
	B3	LTE 700/LTE 850	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B13 RFG01U-D2A	122'-2"±	120'			
	B4	LTE 1900/LTE AWS	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B66A RFG01U-D1A	122'-2"±	120'			
GAMMA	G1	5G	(P) VZS01	SAMSUNG	(1) (P) VZS01	129'-0"±	230'	(1) (E) OVP BOX TO REMAIN	(1) (P) 6X12 HYBRID CABLE TO REPLACE EXISTING	280'±
	G2	CDMA 850	(E) SA14-60-6D (294829)	CSS	-	129'-0"±	230'			
	G3	LTE 700/LTE 850	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B13 RFG01U-D2A	122'-2"±	230'			
	G4	LTE 1900/LTE AWS	(E) NHH-65A-R2B	COMMSCOPE	(1) (P) B5/B66A RFG01U-D1A	122'-2"±	230'			

\*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP WITH 15% BUFFER.

(E) = Existing  
(P) = PROPOSED

**FINAL EQUIPMENT CONFIGURATION**  
SCALE: N.T.S.

1

DRAWN BY:	JG
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121839
SITE ADDRESS:	

700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE	FINAL EQUIPMENT CONFIGURATION
SHEET NUMBER	





VERIZON WIRELESS  
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**CAMBRIDGE W MA**

ANTMO DRAWINGS

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REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50121839

SITE ADDRESS:

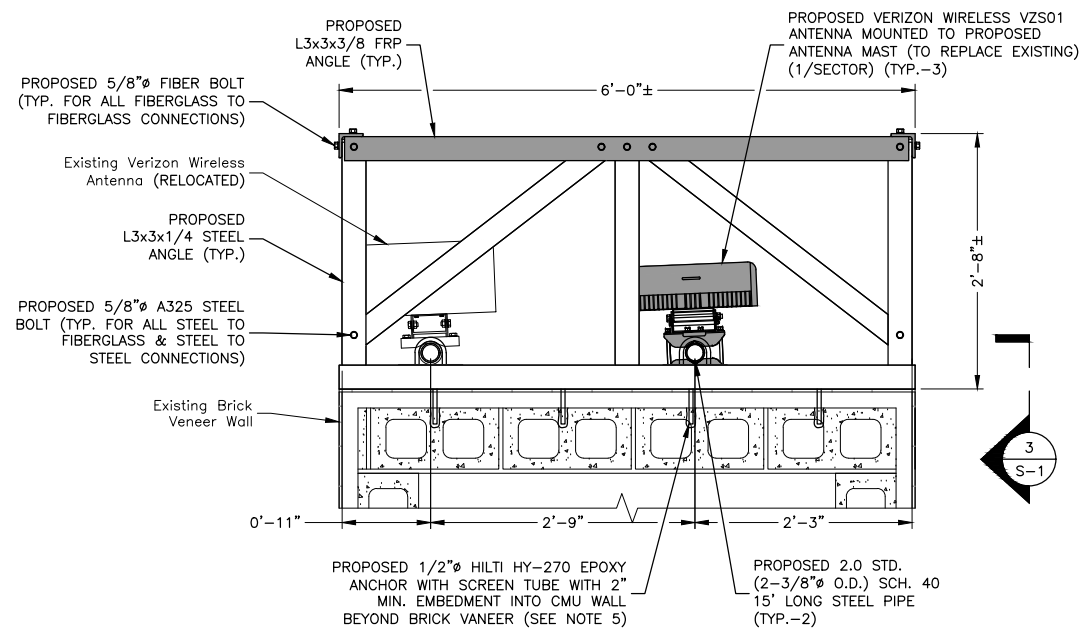
700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE

SCREENWALL DETAILS - I

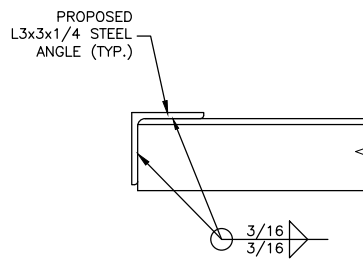
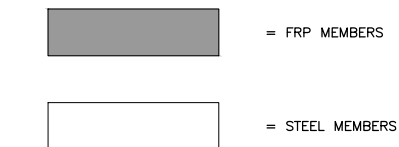
SHEET NUMBER

S-1



**TOP VIEW PLAN**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"



**NOTES:**

- TYP. FOR TOP AND BOTTOM, AT 3 LOCATIONS FOR A TOTAL OF 6 WELDED LOCATION POINTS.

**STEEL ANGLE CONNECTION**

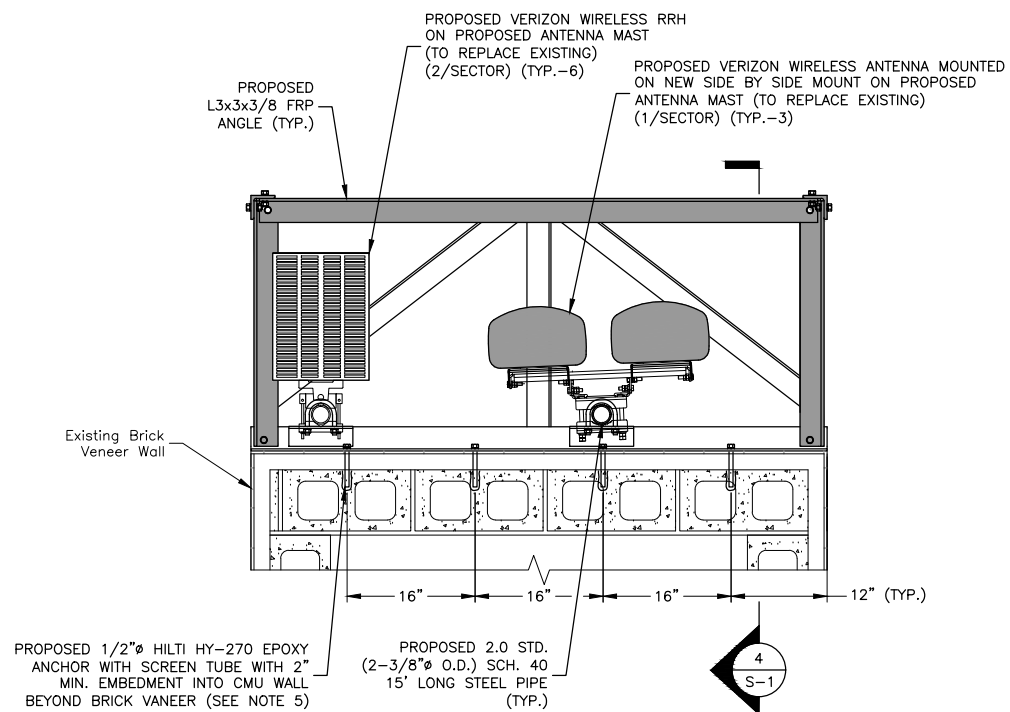
SCALE: 1 1/2"=1' FOR 11"x17"  
3"=1' FOR 22"x34"



PROPOSED 1/2" HILTI HY-270 EPOXY ANCHOR WITH SCREEN TUBE WITH 2" MIN. EMBEDMENT INTO CMU WALL BEYOND BRICK VANEER (SEE NOTE 5)

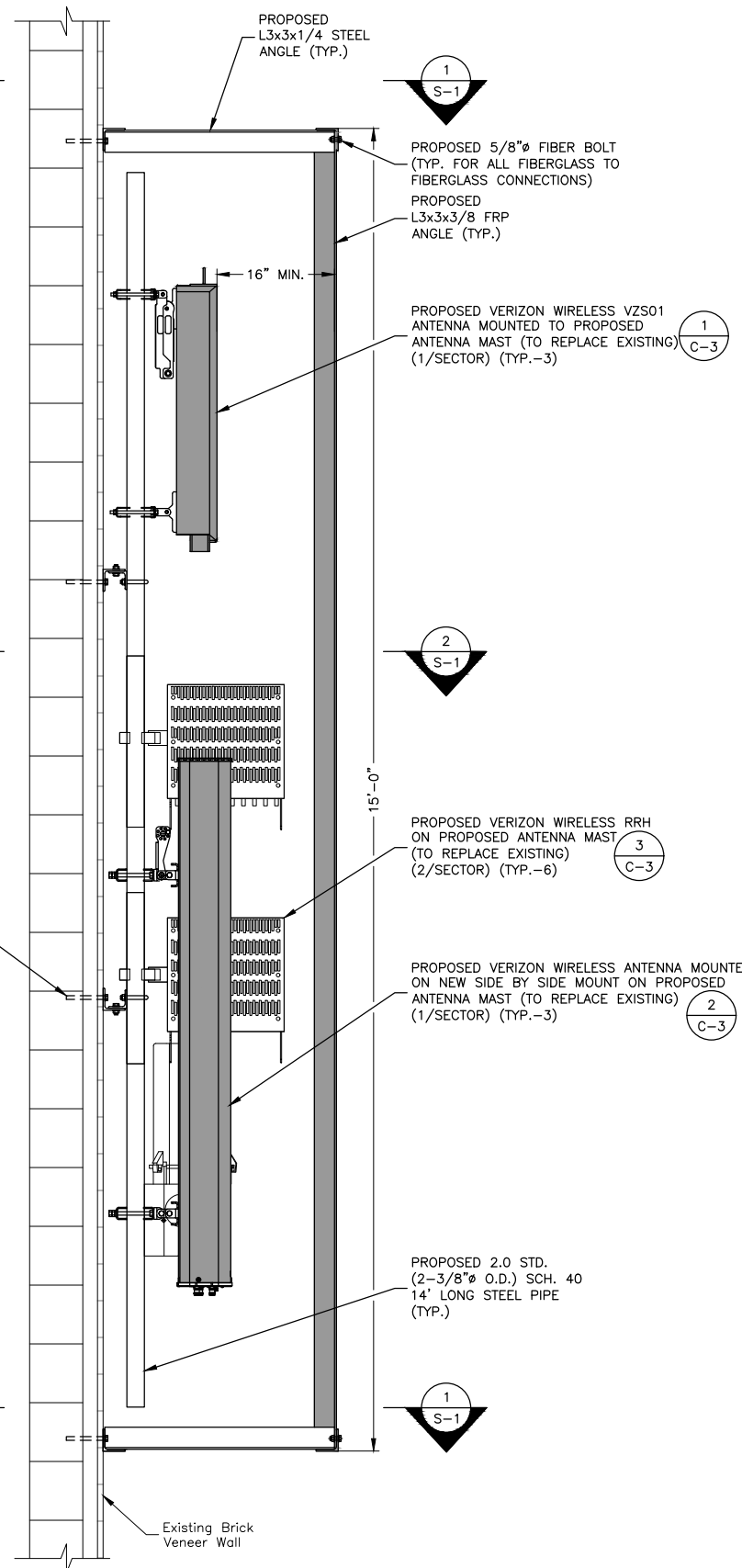
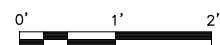
**NOTES:**

- SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- PLANS BASED ON ENGINEER SITE VISIT ON 11/05/20.
- WEATHERSEAL EXTERIOR WALL/ROOF PENETRATIONS.
- ALL PROPOSED EQUIPMENT TO BE INSTALLED PER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 04/23/21.
- CONTRACTOR TO NOT OVER TIGHTEN PAST SNUG FOR PROPOSED ANCHORS TO CMU WALL.
- ANCHORS NOT TO BE INSTALLED AT THE GROUT JOINTS. ONLY ONE ANCHOR PER CMU CELL.
- CONTRACTOR TO CUT EXISTING ANCHORS FLUSH TO THE WALL AND WEATHER SEALED.



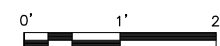
**MID VIEW PLAN**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"



**ANTENNA MOUNTING DETAIL**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"



**CAMBRIDGE W MA**

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REVIEWED BY:	CDH
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PROJECT NUMBER:	50121487
JOB NUMBER:	50121839
SITE ADDRESS:	

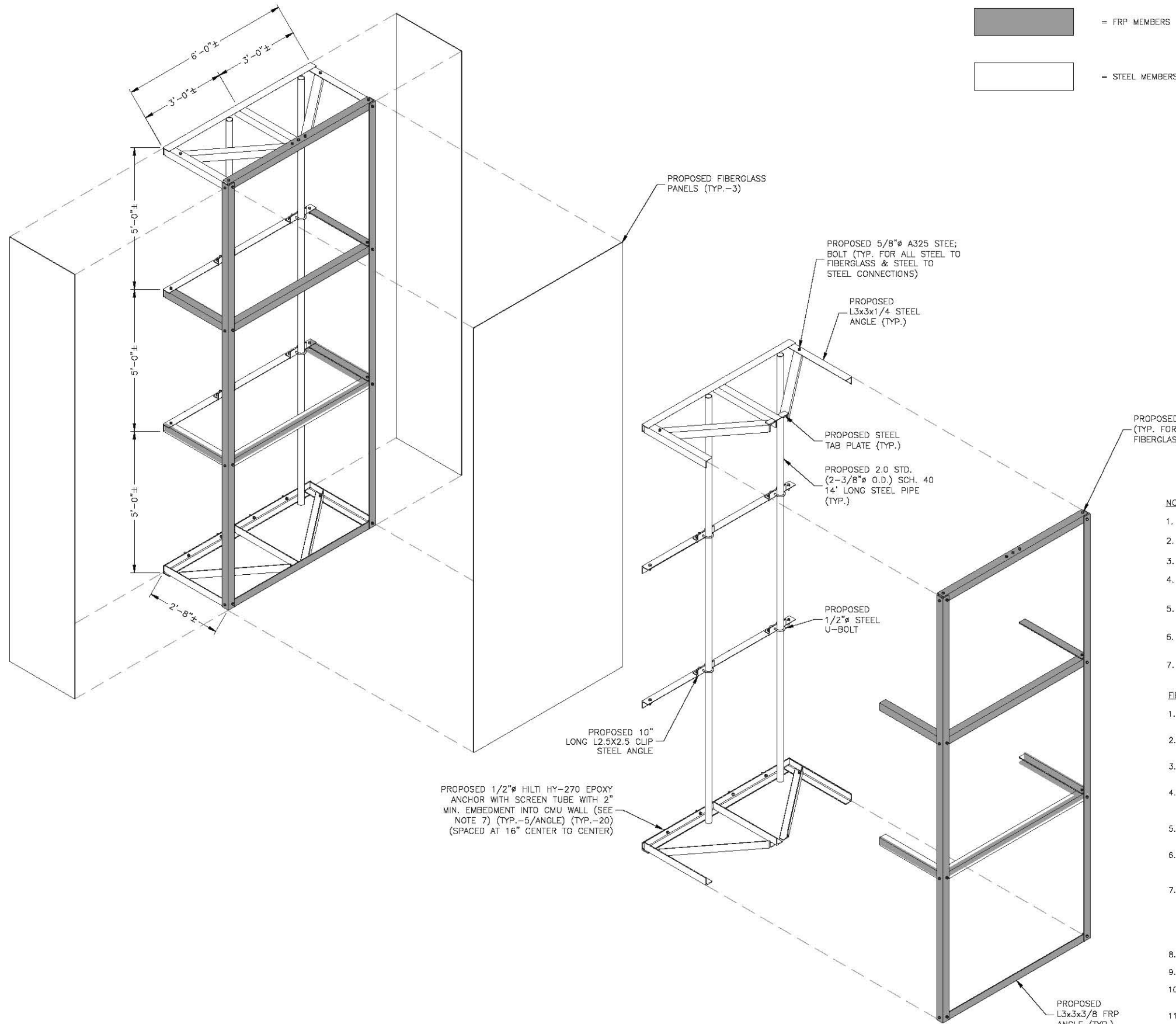
700-704 HURON AVE  
CAMBRIDGE, MA 02138

SHEET TITLE

SCREENWALL DETAILS - II

SHEET NUMBER

S-2



- NOTES:**
- SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
  - PLANS BASED ON ENGINEER SITE VISIT ON 11/05/20.
  - WEATHERSEAL EXTERIOR WALL/ROOF PENETRATIONS.
  - ALL PROPOSED EQUIPMENT TO BE INSTALLED PER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 04/23/21.
  - CONTRACTOR TO NOT OVER TIGHTEN PAST SNUG FOR PROPOSED ANCHORS TO CMU WALL.
  - ANCHORS NOT TO BE INSTALLED AT THE GROUT JOINTS. ONLY ONE ANCHOR PER CMU CELL.
  - CONTRACTOR TO CUT EXISTING ANCHORS FLUSH TO THE WALL AND WEATHER SEALED.
- FIBERGLASS NOTES:**
- FRP (FIBERGLASS REINFORCED POLYMER) STRUCTURAL SHAPES SHALL BE MANUFACTURED USING THE PULTRUSION PROCESS.
  - IF PRE-FABRICATED MEMBERS DO NOT ASSEMBLE ACCORDING TO PLAN, CONTACT DUROFIBER BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
  - FRP MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
  - THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
  - FRP BOLTS SHOULD BE TIGHTENED 1/2 TURN PAST SNUG AND LOCKED WITH EPOXY.
  - FIBERGLASS TO MEET ALL VERIZON WIRELESS STANDARDS FOR RF PROPAGATION. PROVIDE TEST REPORTS TO VERIZON WIRELESS FOR REVIEW & APPROVAL.
  - STRUCTURAL FRP SHALL HAVE THE MINIMUM MECHANICAL PROPERTIES:  
 E=2800KSI  
 TENSILE STRENGTH(LW): 33KSI  
 COMPRESSIVE STRENGTH(LW): 33 KSI  
 FLEXURAL STRENGTH(LW): 33KSI  
 DENSITY: 104PCF
  - FIBERGLASS PANEL DESIGN & CONNECTION DESIGN TO BE BY MANUFACTURER.
  - ANTENNA & ASSOCIATED EQUIPMENT NOT SHOWN FOR CLARITY.
  - PROVIDE FRP SHOP DRAWINGS TO DEWBERRY FOR REVIEW & APPROVAL PRIOR TO FRP FABRICATION.
  - LOADING SPECIFICATIONS: WIND SPEED V=128MPH AND EXPOSURE CATEGORY C RICK CATEGORY II
  - CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REQUIRED ANTENNA/EQUIPMENT CLEARANCES PRIOR TO FABRICATION.



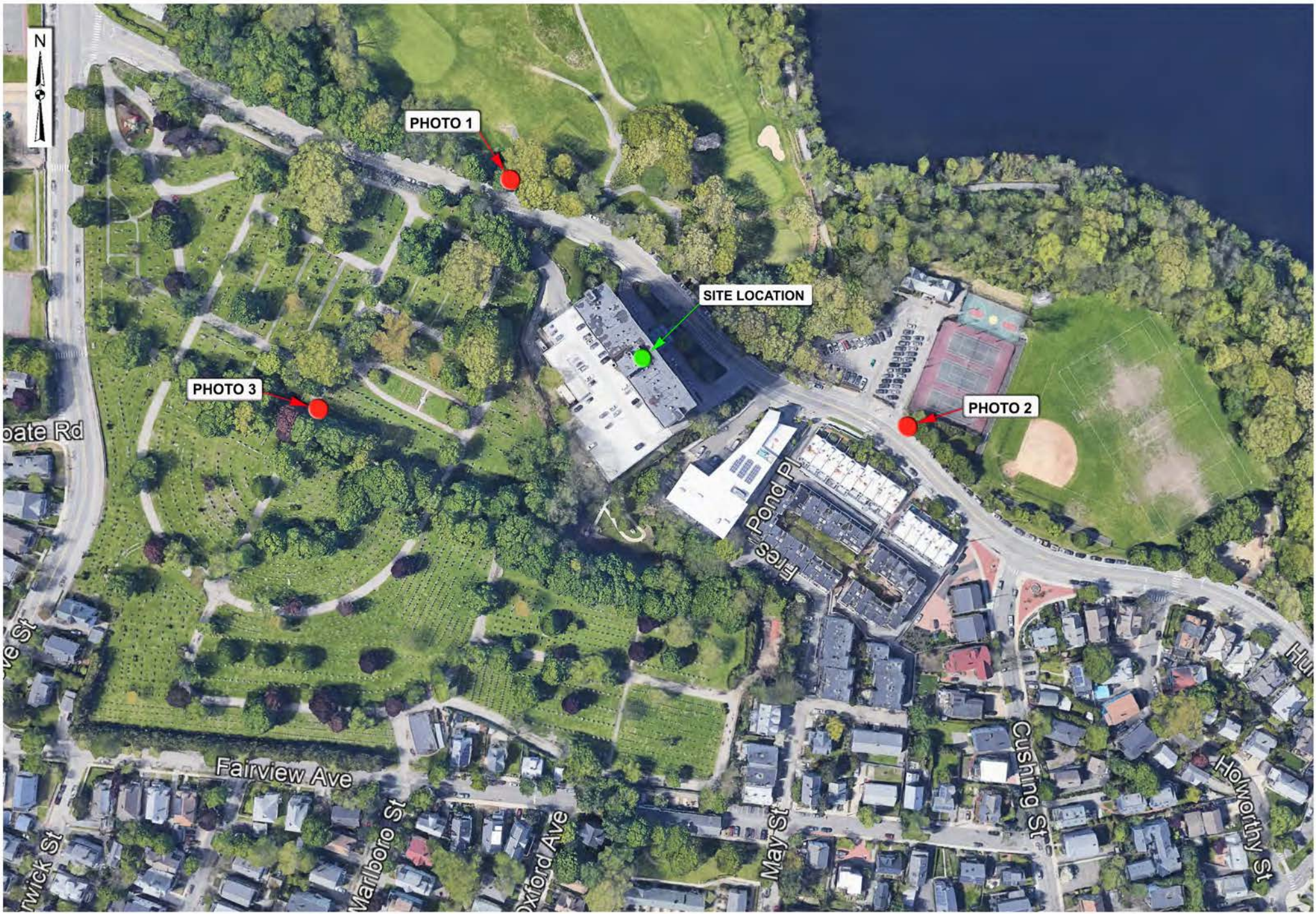
**Prepared For:  
Verizon Wireless  
Site Name:  
Cambridge W MA  
700 Huron Avenue  
Cambridge, MA 02138**



**Cambridge W MA**  
700 Huron Avenue  
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(Page 1 of 8)







**Cambridge W MA**

700 Huron Avenue  
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(Page 2 of 8)





Existing View







**Proposed View**

**Proposed Fiberglass Enclosure (To Replace Existing)  
Concealing Proposed And Existing Alpha Sector Antennas**



**Cambridge W MA**

View Facing Southeast From Huron Avenue

PHOTO 1B

(Page 4 of 8)





Existing View





**Proposed View**

Proposed Fiberglass Enclosure (To Replace Existing)  
Concealing Proposed And Existing Beta Sector Antennas





Existing View





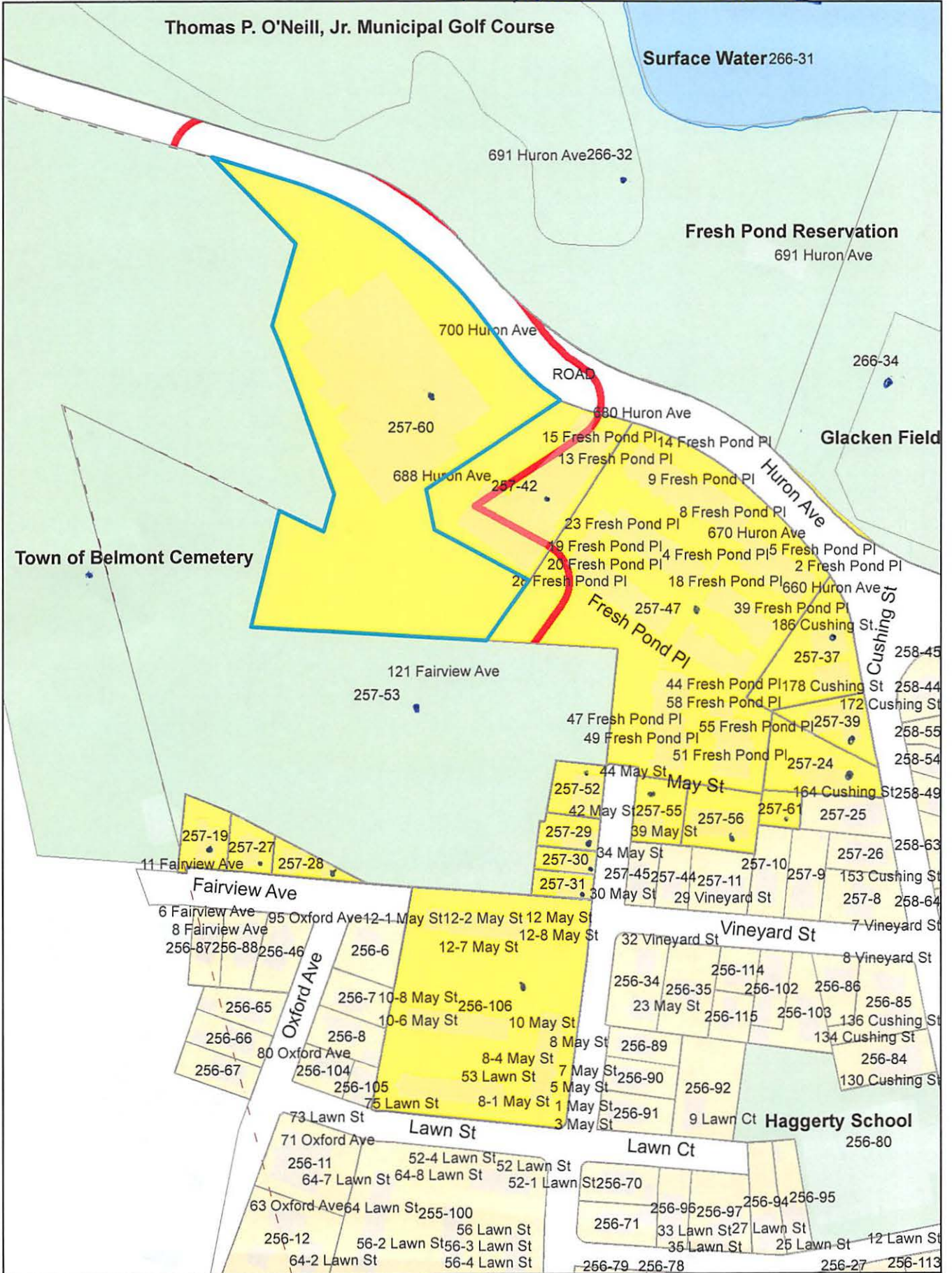
**Proposed View**

Proposed Fiberglass Enclosure (To Replace Existing)  
Concealing Proposed and Existing Gamma Sector Antennas





700-704 Huron Avenue



500-704 Huron Ave

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Petitioner

257-37  
SARAO, NATALIE M.,  
TRUSTEE OF CUSHING REALTY TRUST  
46 IVY LN  
WALTHAM, MA 02452

257-39  
MARCHIO, MARIO C. & MARIA A. MARCHIO  
174 CUSHING ST  
CAMBRIDGE, MA 02138-4582

DUVAL & KLASNICK LLC  
C/O DANIEL D. KLASNICK  
P.O. BOX 254  
BOXFORD, MA 01921

257-47  
REINHOLD, ARNOLD G.  
14 FRESH POND PLACE  
CAMBRIDGE, MA 02138-4430

257-47  
DANNER, PATRICIA  
16 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-28  
KUTA, CHRISTINE M.  
7 FAIRVIEW AVE.  
CAMBRIDGE, MA 02138

257-30  
GAINES, LAURIE B  
34 MAY ST  
CAMBRIDGE, MA 02138

257-47  
CLARK, BENJAMIN B. &  
CLARISSA R. QUINTANILLA  
3 FRESH POND PL.  
CAMBRIDGE, MA 02138

257-47  
VISWANANTHAN, SUBASHREE  
7 FRESH POND PLACE  
CAMBRIDGE, MA 02138-4429

257-47  
GAMBLE, LINCOLN BRADLEY  
C/O WOLCOTT LORING & COOLIDGE OFFICE  
230 CONGRESS ST  
BOSTON, MA 02110-2437

257-47  
WEXLER, RUTH M.  
23 FRESH POND PL  
CAMBRIDGE, MA 02138

257-47  
PURVIS, KIRK S.  
676 HURON AVE., #27  
CAMBRIDGE, MA 02138

257-47  
FREDERICK, JOCELYN L. & THOMAS J. FREDERICK  
32 FRESH POND PL  
CAMBRIDGE, MA 02139

257-27  
RESIDENT  
11 FAIRVIEW AVE  
CAMBRIDGE, MA 02138

257-31  
BARBER, COLLEEN  
91 DALBY STREET  
NEWTON, MA 02458

257-47  
MARQUEDAUNT, JAYNE  
TR. OF THE MARQUEDAUNT TRUST OF 2016  
676 HURON AVE 1  
CAMBRIDGE, MA 02138

257-47  
GOLOSKIE, STEVEN D.  
2 FRESH POND PL.  
CAMBRIDGE, MA 02138

257-47  
DESIMINI, SABINO N. & CATHERINE A. DESIMINI  
92 CONSTITUTION RD  
CHARLESTOWN, MA 02129

257-47  
TANG, JIMMY X. & PAMELA G. YANG  
11 FRESH POND PLACE, UNIT 11  
CAMBRIDGE, MA 02138

257-47  
PINTUS, PAUL & SUSAN PINTUS  
676 HURON AVE., UNIT #12  
CAMBRIDGE, MA 02138-4430

257-47  
LYUBASHEVSKIY, IGOR B. &  
LYUDMILA LUBASHEV  
21 FRESH POND PL., #21  
CAMBRIDGE, MA 02138

257-47  
STEARNS, ANTONIA R.  
25 FRESH POND PL  
CAMBRIDGE, MA 02138

257-47  
CRUTHIRDS, DANIEL R.  
35 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
BOTCHWEY, KWESI  
CITY OF CAMBRIDGE TAX TITLE  
40 FRESH POND PL  
CAMBRIDGE, MA 02138

257-47  
TIPPER, DONALD J. & KAREN S. TIPPER  
44 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
LINER, ELLEN F. & ERIC M. LISKIN  
45 FRESH POND PL.  
CAMBRIDGE, MA 02138

257-47  
UEBELHOER, DAMIAN  
676 HURON AVE, #52  
CAMBRIDGE, MA 02138

257-47  
HARRIS, ANITA M.  
TR. OF THE HARRIS FAMILY REALTY TRUST  
53 FRESH POND PL #53  
CAMBRIDGE, MA 02138

257-47  
WEINBERGER, GEORGE M.  
55 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-52  
WU YAO  
44 MAY ST - UNIT 44  
CAMBRIDGE, MA 02138



257-47  
HOUSTON, ERIC & RANKO HOUSTON  
18 FRESH POND PL.  
CAMBRIDGE, MA 02138-4430

257-47  
KIRSANOV, DANIL  
676 HURON AVE. UNIT#19  
CAMBRIDGE, MA 02138

257-47  
WEISSMAN, LARRY  
26 FRESH POND PLACE  
CAMBRIDGE, MA 02138-4430

257-47  
KOHLER, VICTORIA G.  
TRUSTEE OF THE VICTORIA G. KOHLER TRUST  
P.O BOX 231  
BONDVILLE, VT 05340

257-47  
VOGMAN, TATYANA L.  
676 HURON AVE. UNIT 30  
CAMBRIDGE, MA 02138

257-47  
ALPERT, GARY D.  
31 FRESH POND PLACE  
CAMBRIDGE, MA 02138-4429

257-47  
LUEDERS, PENELOPE K. TRUSTEE,  
34 FRESH POND PL  
CAMBRIDGE, MA 02138

257-47  
ZHAI, QI  
676 HURON AVE., #37  
CAMBRIDGE, MA 02138

257-47  
AMENECHI, ONA DIKE  
54 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-52  
CHALLENGER, AARON  
40 MAY ST., #40  
CAMBRIDGE, MA 02138

257-47  
SHAMIM, ANNE  
42 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
ROBINSON, TRINA  
43 FRESH POND PLACE #43  
CAMBRIDGE, MA 02138

257-47  
LEWONTIN, TIMOTHY A. & AMY LEWONTIN  
47 FRESH POND PL.  
CAMBRIDGE, MA 02138

257-47  
WANG, YUBIN & YAN QU  
51 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
GOODSON, JO MAX & STEVANKA V. GOODSON  
TRUSTEES, THE GOODSON LIV TRUST  
676 HURON AVE., #56  
CAMBRIDGE, MA 02138

257-47  
BELANGER, MONICA L. & MICHAEL RUDOLPH WEST  
TR THE RUDOLPH AND LINDA WEST IRREV TRUS  
C/O LINDA WEST  
57 FRESH POND PLACE #57  
CAMBRIDGE, MA 02138-4429

257-47  
ABBENSETTS, MAXWELL KOFI JOHN  
676 HURON AVE., #58  
CAMBRIDGE, MA 02138

257-19  
HUNTER, DEIRDRE J. & BETH A, LEVENTHAL  
15 FAIRVIEW AVE  
CAMBRIDGE, MA 02138

257-24  
MARCHIO, VINCENT E., MARIO C. MARCHIO &  
MARIA A. MARCHIO  
166 CUSHING ST  
CAMBRIDGE, MA 02138-4582

257-29  
WU, THOMAS JAMES & JAMES WU  
36 MAY ST  
CAMBRIDGE, MA 02138

257-47  
ESTEPAR, RAUL SAN JOSE  
9 FRSH POND PL  
CAMBRIDGE, MA 02138

266-34  
CAMBRIDGE CITY OF WATER DEPT  
250 FRESH POND PKWY  
CAMBRIDGE, MA 02138

257-47  
GOBLE, THEODORE N. & SHIRLEY E. MULFORD  
15 FRESH POND PL.  
CAMBRIDGE, MA 02138

257-47  
SUDARSHAN, RAGHUNATHAN & PADMAPRIYA  
SRINIVASAN  
17 FRESHPOND PLACE  
CAMBRIDGE, MA 02138

257-47  
SHAPIRO, JAY M. & RICHARD REINKRAUT  
20 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
TOLEDO, ERIC & YUKIKO ISHII  
22 FRESH POND PLACE.  
CAMBRIDGE, MA 02138

257-47  
MILLER, ARNOLD R. & SHARON L. HERMAN  
24 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-47  
GILLASPIE, R. CRAIG & MARY L. ARRIGO  
29 FRESH POND PL.  
CAMBRIDGE, MA 02138-4429

257-47  
AYOUB, CATHERINE C. & JOHN E. AYOUB  
33 FRESH POND PL  
CAMBRIDGE, MA 02138

257-47  
HERBERT, ELIZABETH A.  
38 FRESH POND PLACE UNIT #38  
CAMBRIDGE, MA 02138

700 - 704 Huron Ave

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257-47  
HUREL, PIERRE J.R. & NICOLE AGOIS  
676 HURON AVE., #39  
CAMBRIDGE, MA 02138

257-47  
FRESH POND PLACE PARTNERSHIP  
C/O WILLIAM KAPLAN  
48 FRESH POND PL  
CAMBRIDGE, MA 02138

257-52  
RAINOFF, HELEN  
42 MAY ST  
CAMBRIDGE, MA 02138

257-55  
PRASAD, RAJIV & SALLY S. PRASAD  
39 MAY ST  
CAMBRIDGE, MA 02138

257-60  
HURON TOWERS COMPANY  
C/O FIRST REALTY MANAGEMENT CORP.  
2001 ROSS AVE, 19TH FLR  
DALLAS, TX 75201

257-61  
BORELLI, THERESA  
158 CUSHING ST  
CAMBRIDGE, MA 02138

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

256-106  
CAMBRIDGE HOUSING AUTHORITY  
675 MASSACHUSETTS AVE  
CAMBRIDGE, MA 02139

257-47  
TEEBAGY, ANDREA  
9 HARDING STREET #1  
CAMBRIDGE, MA 02141

257-47  
DELANEY, ARLENE TRUSTEE  
DELANEY REVOC TRUST  
49 FRESH POND PL UNIT #49  
CAMBRIDGE, MA 02138

257-47  
WALSH, DALE M.  
TR. OF THE DALE M. WALSH REVOC TRUT  
13 FRESH POND PLACE  
CAMBRIDGE, MA 02138

257-56  
GREENOUGH AVENUE LLC  
1770 MASSACHUSETTS AVE  
CAMBRIDGE, MA 02140

257-47  
SELVA, MICHEL G. DEBORAH J. JANCOURTZ, TRS  
676 HURON AVE UNIT 41  
CAMBRIDGE, MA 02138

257-47  
ELLENZWEIG, JUDITH S.,  
TRS THE KLAPPER NOMINEE TRUST  
14 HILLSIDE TER  
BELMONT, MA 02478

257-47  
YUM HYONG-KON RHEE KYUNG-JIN  
676 HURON AVE - UNIT 50  
CAMBRIDGE, MA 02138

257-53-42/266-32  
CITY OF CAMBRIDGE  
C/O NANCY GLOWA  
CITY SOLICITOR

257-53-42 /266-32  
CITY OF CAMBRIDGE  
C/O LOUIS DEPASQUALE  
CITY MANAGER

BELMONT CEMETERY  
121 GROVE STREET  
BELMONT, MA 02478

BELMONT PLANNING BOARD  
19 MOORE ST. - 2<sup>ND</sup> FL.  
BELMONT, MA 02478