



CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139
Telephone: 617 349 4683 TTY: 617 349 6112
E-mail: histcomm@cambridgema.gov URL: www.cambridgema.gov/Historic

RECEIVED
JUN 27 2022
CAMBRIDGE HISTORICAL
COMMISSION

APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box): Appropriateness, Nonapplicability, or Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.

2. Address of property: , Cambridge, Massachusetts

3. Describe the proposed alteration(s), construction or demolition in the space provided below:
(An additional page can be attached, if necessary).

Crown Castle Fiber LLC is proposing to install a small cell at existing City of Cambridge streetlight location in the Harvard Square Conservation District. Crown is proposing to replace the existing 20'8" pole with a look a like 21'-5" double acorn pole.

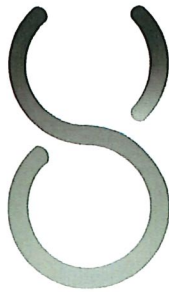
The proposed equipment is a new 36" x 18" x 12" equipment cabinet, and a whip style antenna of 24" x 2" width. With the proposed equipment the new total height of the pole is 22'-5" from 20'-8" height. Please see attached Node Profile for for photosims as well as equipment cut sheets.

Proposed underground installation will take place in two parts. The first is a fiber dig for 28' of (1)-2" PVC from VZ MH #26/389 to a proposed handhold. The second portion of the work is 24' of (1)-2" PVC for power from existing EMH #C520 to proposed handhold. This Hand hold is 24"x36" composite handhold for communications/power.

I certify that the information contained herein is true and accurate to the best of my knowledge and belief. **The undersigned also attests that he/she has read the statements printed on the reverse.**

Name of Property Owner of Record: <input type="text" value="Crown Castle Fiber LLC"/>	
Mailing Address: <input type="text" value="3200 Horizon Drive Suite 150, King of Prussia, PA 19406"/>	
Telephone/Fax: <input type="text" value="678-464-2027"/>	E-mail: <input type="text" value="bryn.thornburgh@crowncastle.com"/>
Signature of Property Owner of Record: _____ (Required field; application will not be considered complete without property owner's signature)	
Name of proponent, if not record owner: <input type="text"/>	
Mailing Address: <input type="text"/>	
Telephone/Fax: <input type="text"/>	E-mail: <input type="text"/>

<i>(for office use only):</i>			
Date Application Received: _____	Case Number: <u>4833</u>	Hearing Date: <u>8/4/22</u>	
Type of Certificate Issued: _____	Date Issued: _____		



PROJECT:

VZW 4G NODE LOCATION

SITE CASCADE:

**HSQ-001
SCU# 464614**

SITE TYPE:

20'-8" STREETLIGHT POLE

DRAWING DESCRIPTION:

PERMIT DRAWING

PLANS PREPARED FOR:



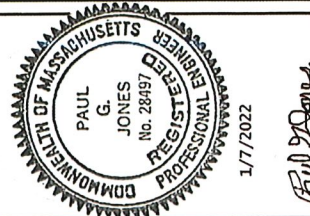
PLANS PREPARED BY:



31 Oxford Rd
Marlboro, MA 01754
www.piketelcom.org
1-888-337-7600

**FOR PERMITTING
PURPOSES ONLY**

ENGINEERING SEAL:



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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	07/16/21

SITE CASCADE:
**HSQ-001
SCU# 464614**

SITE ADDRESS:
**1-5 BRATTLE ST
CAMBRIDGE, MA 02138**

SHEET DESCRIPTION:
TITLE SHEET

SHEET NUMBER:
T-1

SH #	SHEET DESCRIPTION
T-1	TITLE SHEET
GN-123.4	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-2	PROFILE
A-3	PHOTOGRAPHIC SIMULATION

PROJECT EQUIPMENT
NEW CROWN CASTLE INSTALLED EQUIPMENT
<ul style="list-style-type: none"> (1) PHAZAR ANTENNA 150-240V-24U6-F4 (1) APELO RCEN-SLIM-361812 ENCLOSURE (2) COMMSCOPE ION-MI RADIOS

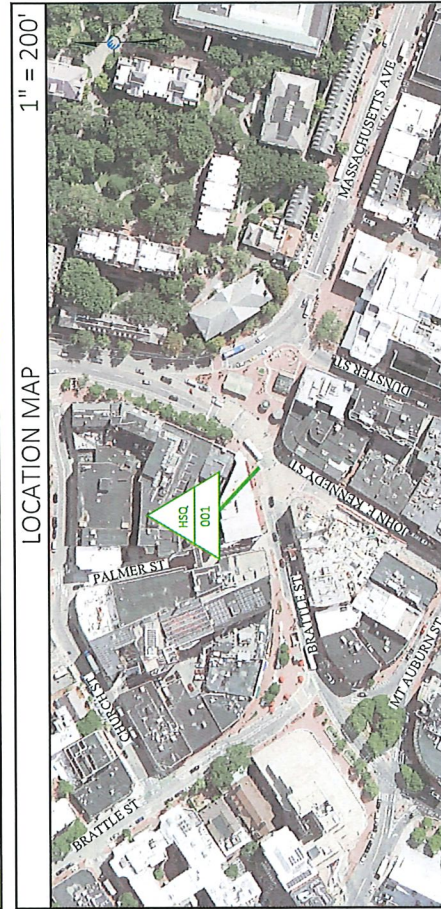
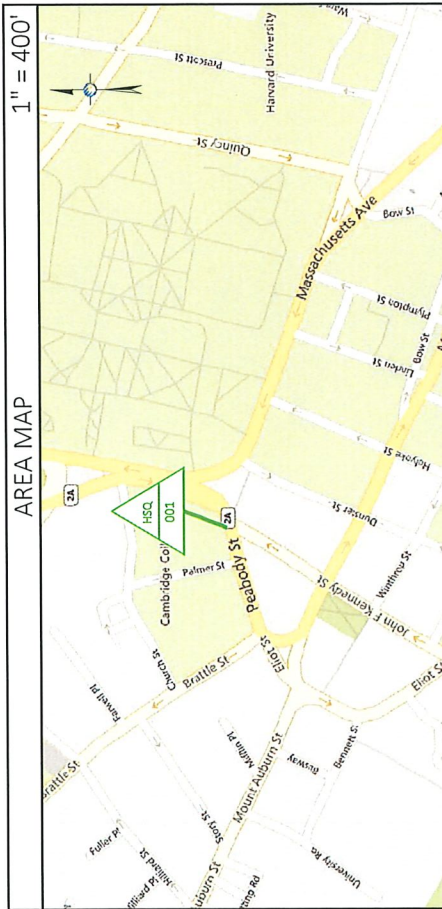
APPLICABLE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- INTERNATIONAL BUILDING CODE
- ANSI / TIA-222 STRUCTURAL STANDARD
- NFPA 780 - LIGHTING PROTECTION CODE
- UNIFORM PLUMBING CODE
- NATIONAL ELECTRICAL CODE
- 2017 NATIONAL ELECTRICAL SAFETY CODE

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. IT'S FREE. CALL 811 OR 1-888-DIG-SAFE



SITE INFORMATION
LATITUDE (NAD83): 42° 22' 24.55"
LONGITUDE (NAD83): -71° 07' 10.13"
COUNTY: MIDDLESEX
ZONING JURISDICTION: CITY OF CAMBRIDGE
ZONING DISTRICT: BB - BUSINESS B
POWER COMPANY: EVERSOURCE
TELEPHONE COMPANY: VERIZON NEW ENGLAND

ADA COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ALL ADA SITE REQUIREMENTS ARE MET OR ARE NOT APPLICABLE.

PROJECT TEAM
BACKHAUL PROVIDER: CROWN CASTLE FIBER
CROWN CASTLE PROJECT MANAGER: NAME: SOPHIA BUCKLEY
CROWN CASTLE CONSTRUCTION MANAGER: NAME: DAN WILLIAMS
CALL CROWN CASTLE SMALL CELL MOCA AT (888) 633-0931 AND THE CROWN CASTLE ON PRIOR TO ACCESSING SITE

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

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- 1.3 ACCESS
1. COORDINATE WITH THE SITE OWNER AND/OR LOCAL JURISDICTION REGARDING THE CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF ADJACENT PARCELS INFLUENCED BY THE WORK SHALL BE ADVISED OF THE CONSTRUCTION SCHEDULE.
2. THE CONTRACTOR SHALL COORDINATE WITH LOCAL JURISDICTIONS FOR SPECIAL CONSIDERATIONS OF CONSTRUCTION, SUCH AS: NOISE OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERIES AND STORAGE, STAGING AREA, CRANE LIFTS, ETC. WITH THE PROPERTY OWNER, OWNERS REPRESENTATIVE, AND/OR LOCAL JURISDICTION PRIOR TO THE START OF WORK.
3. CONTRACTOR SHALL COORDINATE WITH A PROPERTY OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT PORT OF PROPERTY PRIOR TO COMMENCING THE WORK. PROPERTY OWNER, PROPERTY OWNERS REPRESENTATIVE, AND/OR LOCAL JURISDICTION.
4. THE CONTRACTOR SHALL COORDINATE WORK HOURS & SCHEDULE WITH THE LOCAL JURISDICTION AND PROPERTY OWNER, PROPERTY OWNERS REPRESENTATIVE, AND/OR LOCAL JURISDICTION.
5. CONTRACTOR TO NOTIFY PROPERTY OWNER OF THE CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.
- 1.4 SITE SETBACKS
1. SITE SETBACKS: REACTIVE MATERIALS FROM NEW AND EXISTING BUILDINGS IMMEDIATELY REMOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPTLY, AT LEAST DAILY. CONFINE DUST PRODUCE DURING CUTTING, DRILLING, PAINTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARKING AREA, VACUUM IMMEDIATELY AFTER COMPLETION.
2. THERE SHALL NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS MANOVED BY THE LOCAL JURISDICTION AND THE PROPERTY OWNER. NO OWNERS REPRESENTATIVE SHALL BE AWARE OF NOISE OUTSIDE THE NORMAL HOURS MANOVED BY THE LOCAL JURISDICTION AND THE PROPERTY OWNER. NO OWNERS REPRESENTATIVE SHALL BE AWARE OF NOISE OUTSIDE THE NORMAL HOURS MANOVED BY THE LOCAL JURISDICTION AND THE PROPERTY OWNER.
3. NOISE AND EXISTING BUILDING VIBRATION GENERATED BY THE CONSTRUCTION PROCEDURES, EQUIPMENT, TOOLS AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH-NOISE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN BE HEARD, CONFINE TO JURISDICTION AND PROPERTY OWNER OR OWNERS REPRESENTATIVE.
4. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-B ABC WITHIN 50 FT OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE, LEGALLY OFF SITE, ALL RUBBISH, WASTE AND DEBRIS FROM THE WORK AREA IMMEDIATELY AFTER COMPLETION OF EACH WORKING DAY. REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOODUPS, TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS, AND RUBBISH FROM PROPERTY OWNERS PROPERTY, PUT SITE IN NEAT, ORDERLY CONDITION, READY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE FROM DEBRIS ON A DAILY BASIS.
6. THE SITE AND/OR BUILDING SECURITY SHALL BE MAINTAINED IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE CONSTRUCTION AREA.
7. THE TENANT'S INGRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
8. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MAINTAIN POLLUTION CONTROL, COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBRIS AND ACCUMULATION OF MATERIALS RESULTING FROM THE WORK.
- 2 DEMOLITION AND EXISTING STRUCTURAL ALTERATION
- 2.1 DEMOLITION SPECIFICS
1. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SHORING, BRACING, PROVIDING LATERAL SUPPORT, AND FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE DURING THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WALLS, BEAMS, SLABS, ROOSTS, OR OTHER ELEVATED STRUCTURAL ITEMS THAT ARE HAVING SUPPORT NOTED FOR DEMOLITION.
2. ANY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- 2.2 CUTTING AND PATCHING
1. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY INDICATED. DRILL BITS SHALL BE APPROVED, AND OPERATIONS SHALL BE CONDUCTED UNDER CLOSE SUPERVISION. ALL OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT PREVENTS FIRE, AND ALL OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT PREVENTS FIRE.
2. WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACENT EXISTING SURFACES.
3. EXCEPT IN SPACES WHERE NO WORK IS TO BE DONE, ALL EXISTING AND NEW CONDUITS, DUCTS, PIPES, AND SIMILAR ITEMS IN FURNING WHERE DAMAGED DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT, SHALL BE REPAIRED TO MATCH ADJACENT EXISTING FINISHES AS INDICATED.
4. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.
- 3.1 SITE WORK
- 3.2 CLEANING AND GRUBBIES
1. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED.
2. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION UNIT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES, VEGETATION, LANDSCAPING, MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH WILL BE DAMAGED BY CONSTRUCTION ACTIVITIES.
4. CLEAR AND GRUB STUMPS, VEGETATION, RUBBISH, DESIGNATED TREES REQUIRED FOR THE SITE IMPROVEMENT.
5. STRIP AND STOCKPILE TOPSOIL.
6. PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.
7. MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
8. PROVIDE TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL.
9. REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.
- 3.3 EXCAVATION AND BACKFILL
1. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT A LOCATION APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.
2. BROKEN PAVEMENT OR STONE CURBS SHALL BE REPAIRED IN DIAMETER, ROOTS AND OTHER REBARS SHALL NOT BE USED IN BACKFILL. NO MATERIAL SHALL BE LEFT IN PLACE UNLESS IT IS PROTECTED BY CONSTRUCTION ACTIVITIES.
3. EXCAVATED MATERIAL SHALL BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN A MANNER SUCH THAT INTERFERENCE WITH AND OBSTRUCTION TO VEHICULAR AND PEDESTRIAN TRAFFIC IS MINIMIZED.
4. PRIOR TO BACKFILLING, THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION IF REQUIRED AND ALLOW ADEQUATE TIME FOR INSPECTION.
5. BACKFILLING SHALL OCCUR ON THE SAME DAY AS THE EXCAVATION. IF THIS IS NOT POSSIBLE DUE TO THE COMPLEX NATURE OF THE WORK, EMERGENCY OR UNUSUAL CIRCUMSTANCES SHALL BE IMMEDIATELY NOTIFIED TO THE LOCAL JURISDICTIONS AND TAKE APPROPRIATE MEASURES TO PROTECT PUBLIC SAFETY.
6. UNDER NO CIRCUMSTANCES SHALL AN OPEN EXCAVATION BE LEFT UNATTENDED OVERNIGHT, UNLESS PROPERLY BARRICADED IN A MANNER MEETING WITH APPROVAL FROM LOCAL JURISDICTIONS.
7. ALL PAVEMENT BACKFILL MATERIAL SHALL BE PROCESSED GRAVEL. PAVEMENT BACKFILL SHALL MEET THE SELECTED FILL STANDARDS AS SHOWN BELOW, UNLESS STRICTER REQUIREMENTS ARE SPECIFIED BY THE OWNERS REPRESENTATIVE, GEOTECHNICAL REPORT RECOMMENDATIONS, OR THE REQUIREMENTS OF THE LOCAL JURISDICTION, INCLUDING THE FOLLOWING:

GRADE DESIGNATION	PERCENT PASSING
3 INCH	100
1-1/2 INCH	70-100
3/4 INCH	50-85
NO. 4	30-60
NO. 200	30-60

8. THE USE OF CONTROLLED DENSITY FILL (CDF) MAY BE MANOVED BY THE OWNERS REPRESENTATIVE, GEOTECHNICAL REPORT RECOMMENDATION, OR BY THE LOCAL JURISDICTION. IF CONTROLLED DENSITY FILL IS MANOVED, IT SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY OWNERS REPRESENTATIVE, GEOTECHNICAL REPORT RECOMMENDATION, OR THE REQUIREMENTS OF THE LOCAL JURISDICTION, WHICH-EVER IS MORE STRINGENT.
- A. THE CDF INGREDIENTS SHALL COMPLY WITH THE FOLLOWING:
 - i. PORTLAND CEMENT
 - ii. FLY ASH
 - iii. FINE AGGREGATE
 - iv. AIR ENTRAINING ADMIXTURES
 - v. AIR
- B. THE CDF MUST MEET THE FOLLOWING REQUIREMENTS:
 - i. COMPRESSIVE STRENGTH AT 28 DAYS: 3000 PSI (210,500kPa)
 - ii. COMPRESSIVE STRENGTH AT 90 DAYS: 100 PSI MAX. (700 kPa MAX.)
 - iii. SLUMP: 10-12 INCHES (250-300 MM)
 - iv. AIR: 1%-3%
9. THE PROJECT INCLUDES:
 - i. EXCAVATION, TRENCHING, FILING, COMPACTING AND GRADING FOR STRUCTURES
 - ii. ALL MATERIALS FOR SUB-BASES, FINISH GRADE, BACKFILL, GRAVEL FOR SUBS, PAVEMENT AND IMPROVEMENTS.
 - iii. ROCK CAPPING AND/OR ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.
 - iv. FILL LAYERS THAT REQUIRE COMPACTATION SHALL HAVE A MAXIMUM THICKNESS OF 8 INCHES.
 - v. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONCRETE FOR ALL CONCRETE WORK, INCLUDING:
 12. IF A LAYER OF CONCRETE, COBBLSTONE, GRANITE PAVERS, OR OTHER SUPPORTING MATERIAL EXISTS, CONTRACTOR SHALL INSTALL CONCRETE TO MATCH THE EXISTING DEPTH PRIOR TO INSTALLATION OF TEMPORARY PAVEMENT.
 13. WHEN BACKFILL CANNOT EFFECTIVELY BE COMPACTED TO 95% MAXIMUM DENSITY DUE TO MULTIPLE CONDUITS, DUCTS OR PIPES, CONTROLLED DENSITY FILL (CDF) MAY BE USED.
 14. THE CONTRACTING UNDER LAWNS OR UNPAVED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTM D1557.
 15. GRAVEL SHALL BE PLACED UP TO THREE (3) INCHES BELOW GRADE OF EXISTING ASPHALT, TO ALLOW ROOM FOR THREE (3) INCHES OF COMPACTED HMA TEMPORARY SURFACE.
 16. CONCRETE SIDEWALKS SHALL BE PLACED ON A BED OF SIX (6) INCHES OF COMPACTED GRAVEL.
 17. CURB STONES MUST BE PLACED ON A BED OF SIX (6) INCHES OF CRUSHED STONE.
 18. THE COMPACTED LAYERS SHALL NOT EXCEED 8 INCHES.
 19. AREAS THAT DO NOT MEET ASTM D-1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSE.
 20. ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
 21. WHERE UNSTABLE SOIL CONDITIONS EXIST, LINE THE CRIBBED AREAS WITH GEOTEXTILE FABRIC (MIN. 600K OR APPROVED EQUIVALENT) PRIOR TO PLACING FILL OR BASE MATERIAL.
 22. THE USE OF 50# OR 60# IS PROHIBITED ON SITE.
 23. ALL TRENCHES SHALL BE SUBSTANTIAL, HORIZONTAL, UNDISTURBED AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEVATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.
 24. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY AS SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLODS OR STONES OVER 2".
 25. BRUSH AND UNAPPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLODS OR STONES OVER 2".
 26. THE CONTRACTOR SHALL MAINTAIN THE EXISTING VEGETATION, WEEDS, TRASH, AND ANY FOREIGN MATERIAL.
 27. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIALS SUCH AS VEGETATION, WOOD, DEBRIS, TRASH, AND ANY FOREIGN MATERIAL.
- 3.3 DRAINAGE
1. THE CONTRACTOR SHALL PROTECT ALL STORM DRAIN AND SEWER APPURTENANCES ADJACENT TO AND WITHIN THE CONSTRUCTION SITE. THE PROTECTION USED SHALL PREVENT THE DISCHARGE OF POLLUTANTS, SEDIMENT, ORDER, SAND, AND OTHER POLLUTANTS INTO ANY PORTION OF THE STORM DRAIN OR SEWER SYSTEM.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. STORM WATER FLOW SHALL NOT BE IMPEDED. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. ANY DRAIN, FIELD TILE, OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL OR BETTER CONDITIONS. AFTER CONSTRUCTION IS NOTED ON THE RECORD DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
5. ANY DRAIN, FIELD TILE, OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL OR BETTER CONDITIONS. AFTER CONSTRUCTION IS NOTED ON THE RECORD DOCUMENTS.
6. THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA, THIS MAY INCLUDE SUCH MEASURES AS SILT FENCE, STRAW BALES, SEDIMENT BARRIERS, AND CHECKDAMS.
7. EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWINGS WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
4. CONCRETE
- 4.1 GENERAL
1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES:
 - ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 - ACI 304 - GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE
 - ACI 309 - GUIDE FOR CONSOLIDATION OF CONCRETE
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - ACI 347 - REINFORCED CONCRETE FOR FIBER REINFORCED CONCRETE (IF SPECIFIED)
2. MATERIALS SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE AND ENDORSED BY THE LOCAL JURISDICTION PRIOR TO POURING CONCRETE.
3. CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS: (AS AN ORDERED) (A - 15%), WITH A MAXIMUM OF 4" OF SLUMP, AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED. THE USE OF MINERAL ADITIVES OR SUPPLEMENTS IS PROHIBITED. WATER MAY BE ADDED TO THE MIX IN ACCORDANCE WITH ASTM CR.
4. MAXIMUM AGGREGATE SIZE SHALL BE "1"
5. THE FOLLOWING MATERIALS SHALL BE USED:
 - PORTLAND CEMENT: ASTM C150, TYPE 1
 - FINE AGGREGATE: ASTM C733
 - NORMAL WEIGHT AGGREGATE: DRINKABLE
 - WATER: NON-CHLORIDE CONTAINING
 - ADMITTERS: ASTM C110 (IF SPECIFIED)
 - FIBROUS REINFORCEMENT: AS PER LOCAL JURISDICTION
6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 1. ALL REINFORCING SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, U.N.O.
 2. WIRE FABRIC UNLESS OTHERWISE NOTED. SPICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, U.N.O.

PLANS PREPARED FOR:

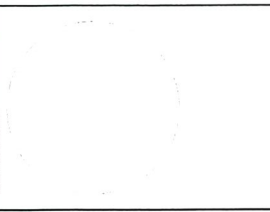


PLANS PREPARED BY:



31 Oxford St
Manchester, MA 02104
www.piketelcom.com
1-508-337-1600

FOR PERMITTING PURPOSES ONLY



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REV.	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	07/16/21

REVISIONS:

REV.	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	07/16/21

SITE CASCADE:

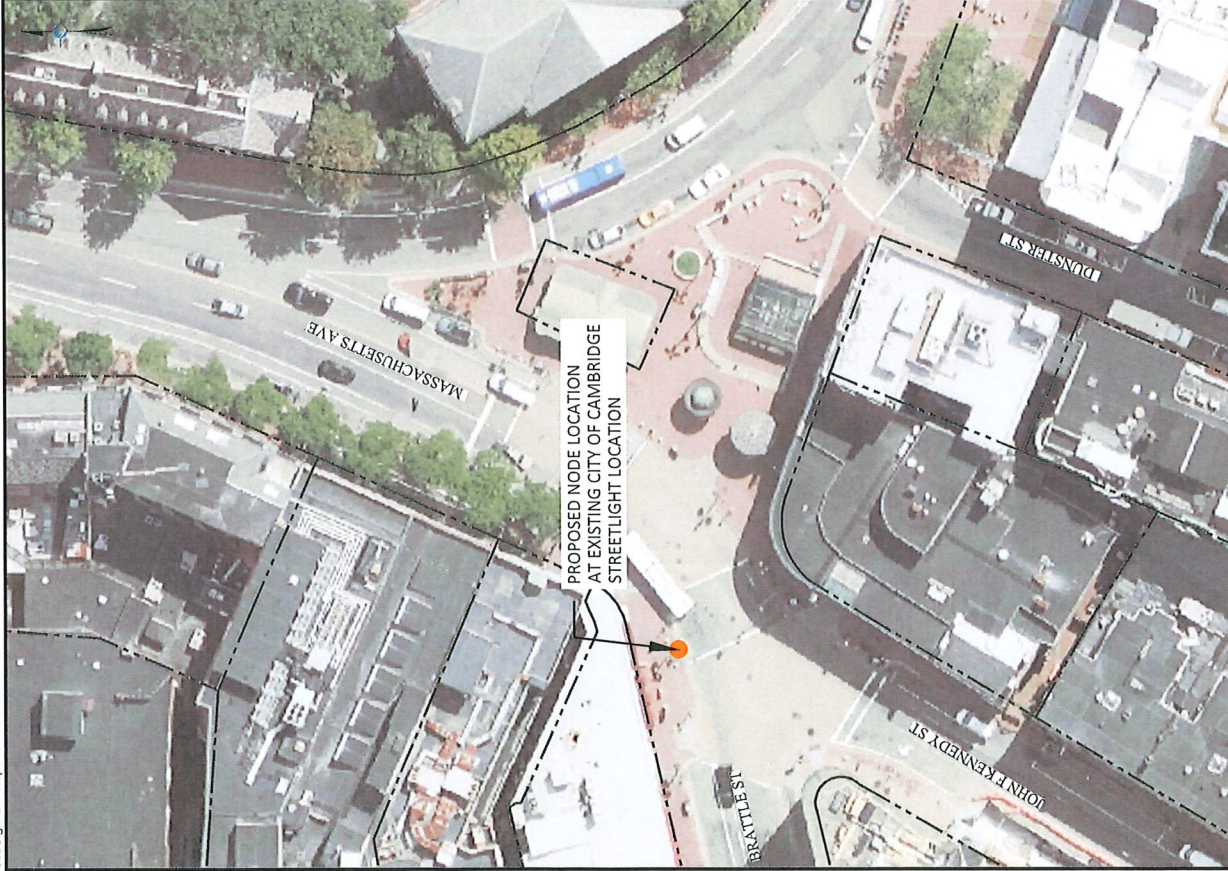
H5Q-001
SCU# 464614

SITE ADDRESS:
1-5 BRATTLE ST
CAMBRIDGE, MA 02138

SHEET DESCRIPTION:
POLE# N/A

GENERAL NOTES

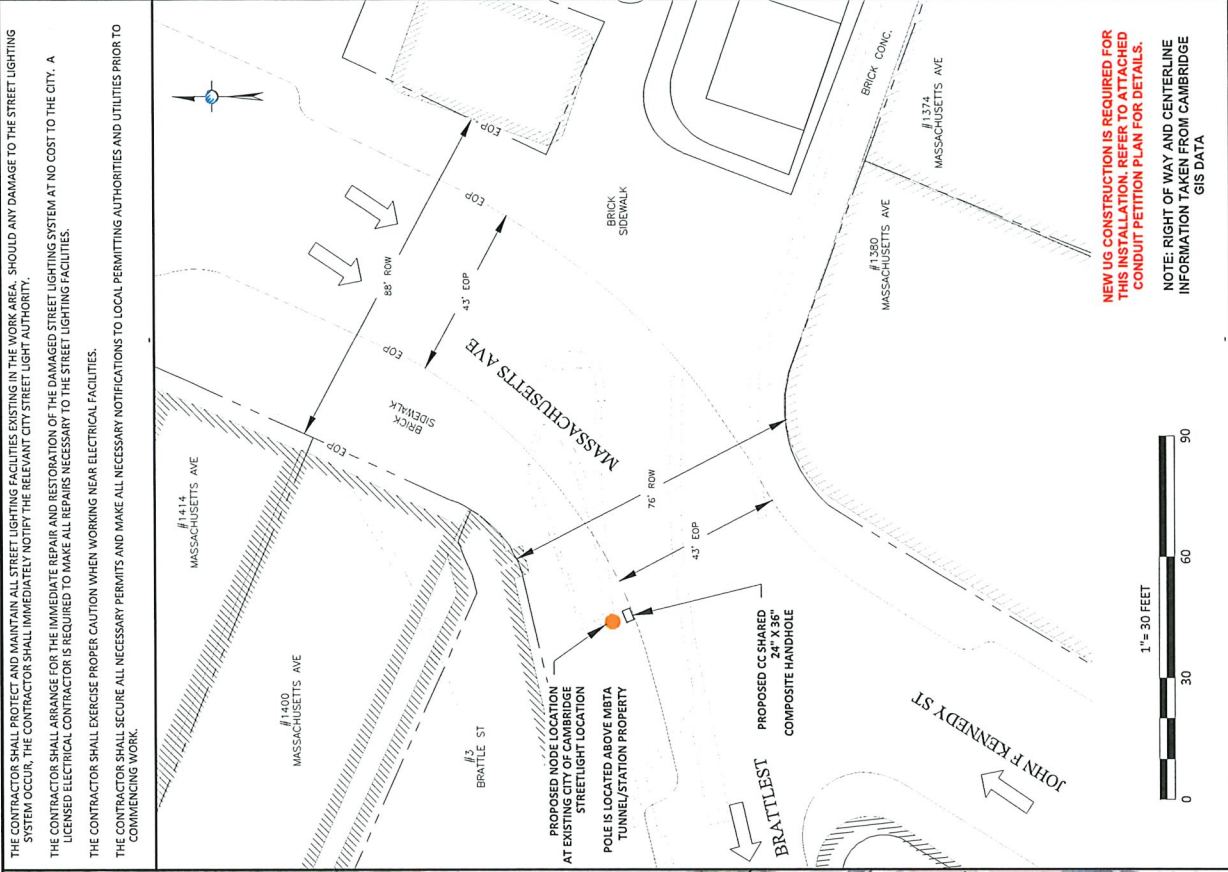
SHEET NUMBER: **GN-2**



AERIAL SITE LOCATION

1"=50'

1



OVERALL SITE PLAN

1"=30 FEET

2

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

PIKE TELECOM

31 Oxford Rd
Mansfield MA 02048
www.piketelcom.org
1-508-337-7600

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ENGINEERING SEAL

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REV	DESCRIPTION	BY	DATE
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SITE CAGUIDE:
HSQ-001
SCH# 464614

SITE ADDRESS:
1-5 BRATTLE ST
CAMBRIDGE, MA 02138
POLE# N/A

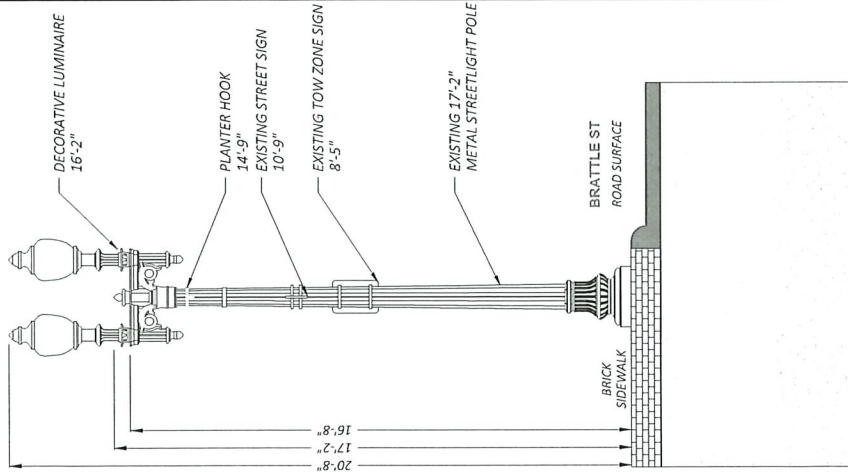
SHEET DESCRIPTION:
OVERALL SITE PLAN

SHEET NUMBER:
A-1

NEW UG CONSTRUCTION IS REQUIRED FOR THIS INSTALLATION. REFER TO ATTACHED CONDUIT PETITION PLAN FOR DETAILS.

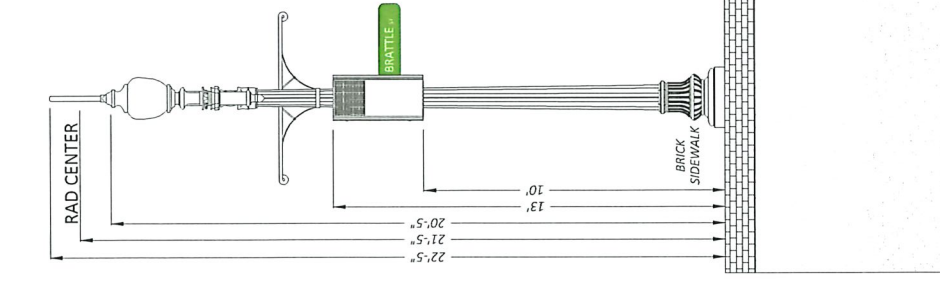
NOTE: RIGHT OF WAY AND CENTERLINE INFORMATION TAKEN FROM CAMBRIDGE GIS DATA

- NOTES:**
- ALL ATTACHMENTS INSTALLED SHALL MEET ALL CLEARANCE REQUIREMENTS FROM OVERHEAD POWER LINES AS SPECIFIED IN THE LATEST EDITION OF THE NESC AND BY LOCAL REGULATIONS.
 - ALL WIRING SHALL BE PROTECTED BY RIGID CONDUIT AND FIELD COILING / CAPPING OF METALLIC POLES TO BE ALLOWED.
 - CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. POLE FOUNDATION AND ACCOMPANYING HARDWARE SHALL BE EVALUATED FOR STRUCTURAL SOUNDNESS. CONTRACTOR SHALL CEASE CONSTRUCTION IF A DETERMINATION IS MADE THAT THE EXISTING FOUNDATION IS NOT SUITABLE FOR THE PROPOSED CONSTRUCTION. ALL CONCERNS SHALL BE DISCUSSED WITH THE CONSTRUCTION PROJECT MANAGER OR ENGINEER AND MITIGATION AGREED UPON PRIOR TO CONSTRUCTION.
 - EXISTING POLES, FOUNDATION, AND ACCOMPANYING HARDWARE MUST BE INSPECTED BY A RESPONSIBLE PROFESSIONAL ENGINEER TO DETERMINE THAT THEY ARE NOT DAMAGED OR DEGRADED AND ARE FIT FOR USE. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT MANAGER OR ENGINEER FOR REVIEW.
 - ALL NEW EQUIPMENT/UNITS SHALL BE PAINTED TO MATCH EXISTING LUMINAIRE, POLE OR ARM OR BE WHITE, BROWN, GRAY OR BEIGE.



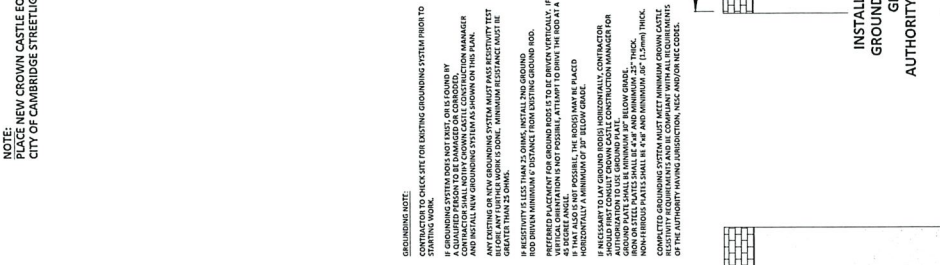
EXISTING PROFILE
FACING NORTHEAST ALONG BRATTLE ST
EXISTING STREETLIGHT POLE

- ENGINEERING NOTES:**
- THIS DOCUMENT AND ALL DETAILS, DRAWINGS, AND PROPOSALS CONTAINED HEREIN ARE STRICTLY FOR PERMITTING PURPOSES ONLY. THIS DRAWING IS NOT TO BE USED AS A CONSTRUCTION DOCUMENT. BEFORE ANY WORK BEGINS, CONTRACTOR SHALL REQUEST FULL CONSTRUCTION DRAWINGS AND STRUCTURAL ANALYSIS FOR THIS PROPOSED SITE FROM CROWN CASTLE CONSTRUCTION MANAGER.
 - CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. POLE FOUNDATION AND ACCOMPANYING HARDWARE SHALL BE EVALUATED FOR STRUCTURAL SOUNDNESS. CONTRACTOR SHALL CEASE CONSTRUCTION IF A DETERMINATION IS MADE THAT THE EXISTING FOUNDATION IS NOT SUITABLE FOR THE PROPOSED CONSTRUCTION. ALL CONCERNS SHALL BE DISCUSSED WITH THE CONSTRUCTION PROJECT MANAGER OR ENGINEER AND MITIGATION AGREED UPON PRIOR TO CONSTRUCTION.
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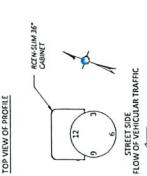


PROPOSED PROFILE
FACING SOUTHEAST TOWARDS BRATTLE ST
INSTALL EQUIPMENT ON PROPOSED STREETLIGHT POLE

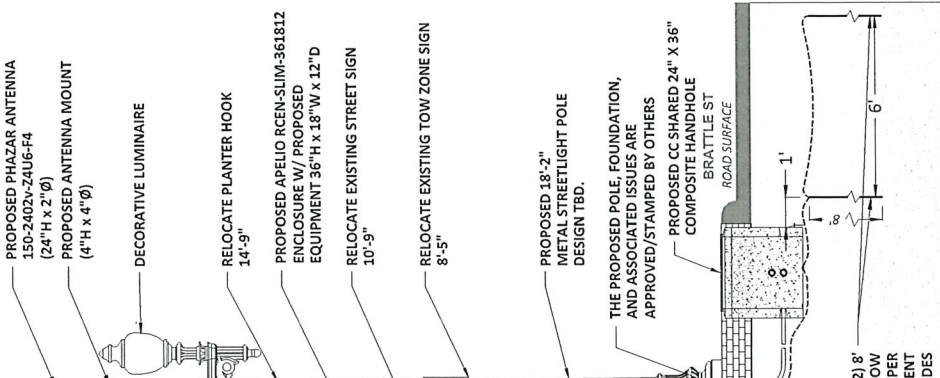
- ENGINEERING NOTES:**
- THIS DOCUMENT AND ALL DETAILS, DRAWINGS, AND PROPOSALS CONTAINED HEREIN ARE STRICTLY FOR PERMITTING PURPOSES ONLY. THIS DRAWING IS NOT TO BE USED AS A CONSTRUCTION DOCUMENT. BEFORE ANY WORK BEGINS, CONTRACTOR SHALL REQUEST FULL CONSTRUCTION DRAWINGS AND STRUCTURAL ANALYSIS FOR THIS PROPOSED SITE FROM CROWN CASTLE CONSTRUCTION MANAGER.
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 - EXISTING POLES, FOUNDATION, AND ACCOMPANYING HARDWARE MUST BE INSPECTED BY A RESPONSIBLE PROFESSIONAL ENGINEER TO DETERMINE THAT THEY ARE NOT DAMAGED OR DEGRADED AND ARE FIT FOR USE. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT MANAGER OR ENGINEER FOR REVIEW.
 - ALL NEW EQUIPMENT/UNITS SHALL BE PAINTED TO MATCH EXISTING LUMINAIRE, POLE OR ARM OR BE WHITE, BROWN, GRAY OR BEIGE.



PROPOSED PROFILE
FACING NORTHEAST ALONG BRATTLE ST
INSTALL EQUIPMENT ON PROPOSED STREETLIGHT POLE



- NOTES:**
- FROM TIME TO TIME IT MAY BE NECESSARY TO MAKE MINOR ADJUSTMENTS TO EQUIPMENT OR TO MAKE MINOR ADJUSTMENTS TO THE FOUNDATION. THESE ADJUSTMENTS SHOULD BE MADE IN ACCORDANCE WITH THE NESC AND LOCAL REGULATIONS. ANY MINOR ADJUSTMENTS TO ACCOMMODATE DIFFERENTIAL SETTLEMENTS AND/OR TO MAKE MINOR ADJUSTMENTS TO THE FOUNDATION SHALL BE MADE IN ACCORDANCE WITH THE NESC AND LOCAL REGULATIONS. ANY MINOR ADJUSTMENTS TO ACCOMMODATE DIFFERENTIAL SETTLEMENTS AND/OR TO MAKE MINOR ADJUSTMENTS TO THE FOUNDATION SHALL BE MADE IN ACCORDANCE WITH THE NESC AND LOCAL REGULATIONS. ANY MINOR ADJUSTMENTS TO ACCOMMODATE DIFFERENTIAL SETTLEMENTS AND/OR TO MAKE MINOR ADJUSTMENTS TO THE FOUNDATION SHALL BE MADE IN ACCORDANCE WITH THE NESC AND LOCAL REGULATIONS.



PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
PIKE TELECOM
31 Oxford St
Marblehead, MA 02048
www.piketecom.com
1-508-337-7600

FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL:

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	10/16/21

REVISIONS:

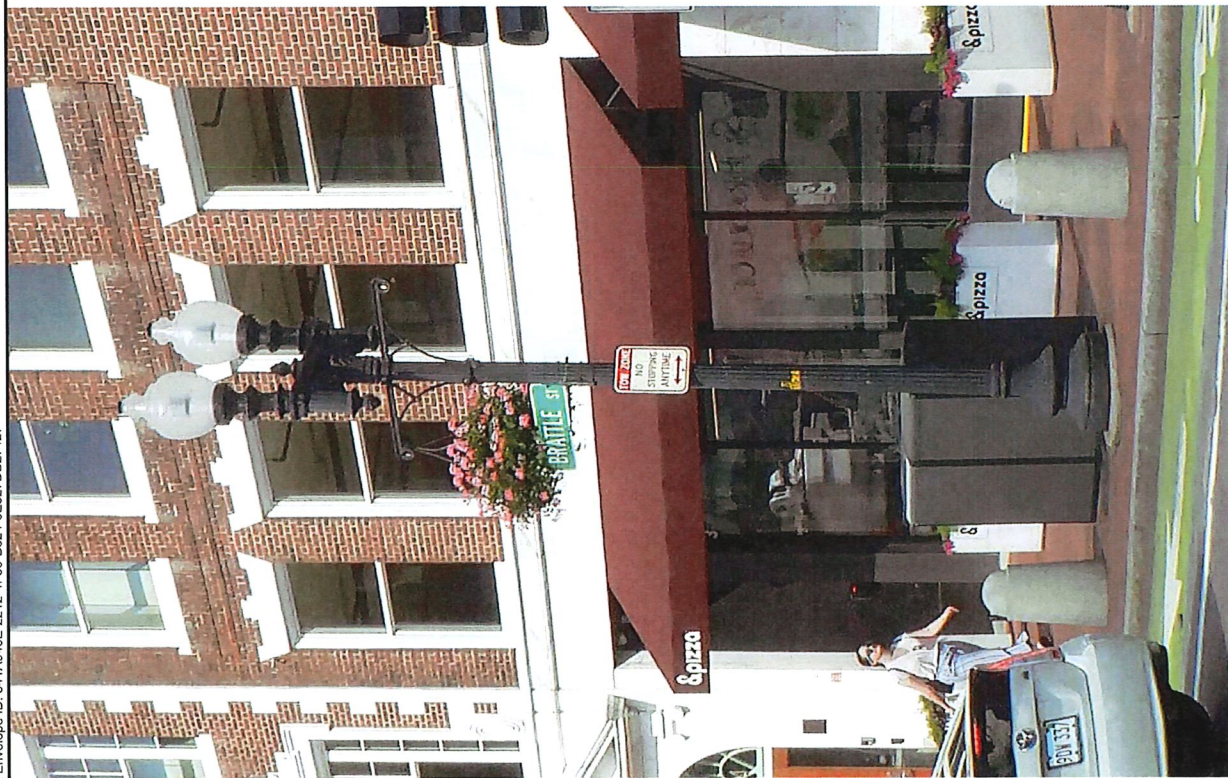
D	DESCRIPTION	BY	DATE

SITE CASCADE:
HSQ-001
SCU# 464614

SITE ADDRESS:
1-5 BRATTLE ST
CAMBRIDGE, MA 02138
POLE# N/A

SHEET DESCRIPTION:
PROFILE

SHEET NUMBER:
A-2



EXISTING PHOTOGRAPHIC VIEW - FACING NORTH

1



PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTH

2

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
PIKE TELECOM
 31 Colfax St
 Malden, MA 02148
 www.piketelcom.org
 1-888-337-7600

FOR PERMITTING PURPOSES ONLY



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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	10/24/22

SITE CASCADE:
 H5Q-001
 SCU# 464614

SITE ADDRESS:
 1-5 BRATTLE ST
 CAMBRIDGE, MA 02138
 POLE# N/A

SHEET DESCRIPTION:
 PHOTOGRAPHIC SIMULATION

SHEET NUMBER:
 A-3



PETITION PLAN
FOR
BRATTLE ST AT MASSACHUSETTS AVE
IN THE CITY OF CAMBRIDGE, MA

SMALL CELL POWER AND FIBER LATERAL
NODE HSQ_001

PREPARED BY:
PIKE TELECOM
31 Oxford Rd
Methuen, MA 02848
Tel: 978-347-7000

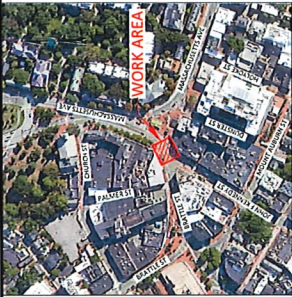
SHEET INDEX

SHEET #	DESCRIPTION
1	COVER SHEET
2	PETITION PLAN
3	DETAILS

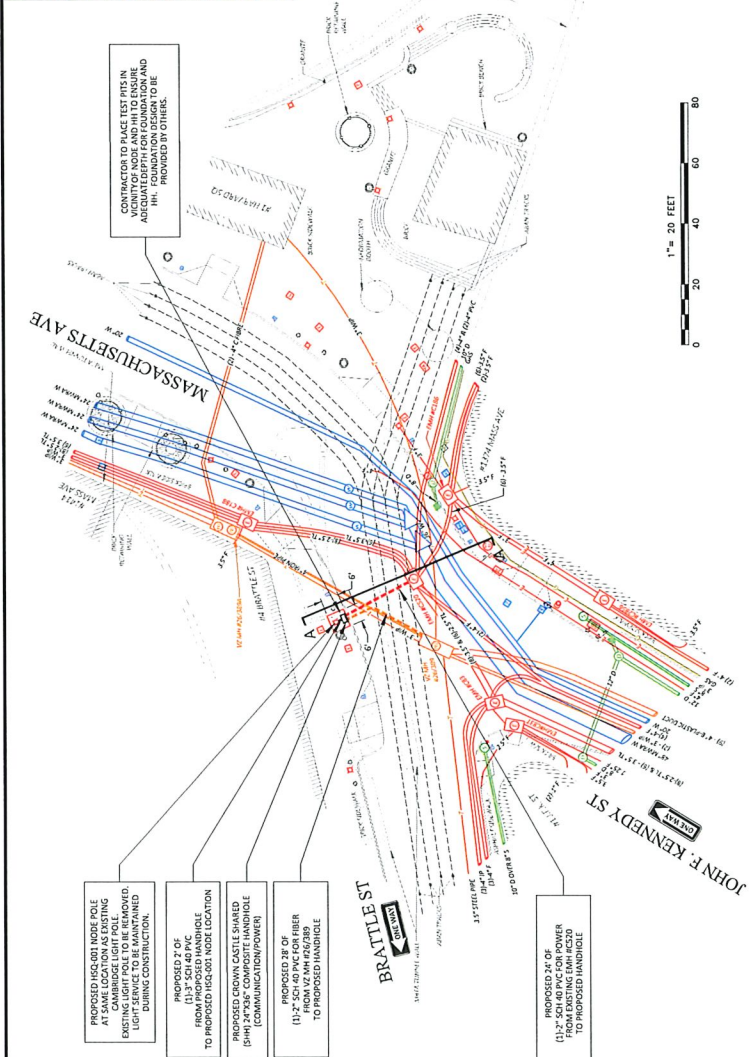
GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN AREA OUTLINE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY THE UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING AND MAINTAINING ALL EXISTING UTILITIES. ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WHERE AN EXISTING UTILITY IS FOUND TO INTERFERE WITH THE PROPOSED WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING AND MAINTAINING ALL EXISTING UTILITIES. ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. THE CONTRACTOR SHOULD MAINTAIN A SEPARATION OF 18 INCHES MIN. WHEN CROSSING DRAINAGE FACILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING AND MAINTAINING ALL EXISTING UTILITIES. ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL NOT DISTURB PUBLIC TREES AND SHRUBS.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION AND APPROVE TO THE OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND MAINTAINING TEMPORARY RESURFACING AND/OR PLATING FOR ALL EXCAVATIONS IN PAVED STREETS AND SIDEWALKS UNTIL PERMANENT RESURFACING IS COMPLETE.
8. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAW CUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACK SANGER.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SERVICES THAT BECOME EXPOSED DUE TO EXCAVATION REQUIRED TO INSTALL THE PROPOSED CONDUIT.
10. THE CONTRACTOR SHALL REPLACE ALL DISTURBED TRAFFIC SIGNAL LOOP DETECTORS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE NATIONAL TRAFFIC DEPARTMENT.
11. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SERVICES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
12. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS IN THEIR ENTIRETY THAT HAVE BEEN DAMAGED BY TRENCH EXCAVATION OR OPERATIONS OF THE CONTRACTOR WITH SIMILAR COLOR AND SIZE THROUGHOUT THE MARKINGS.

--- ITEM FOUND IN FIELD.
 --- ITEM NOT FOUND IN FIELD.
 --- ITEM NOT FOUND IN UTILITY RECORDS.



LOCUS MAP
 SCALE: 1" = 250'



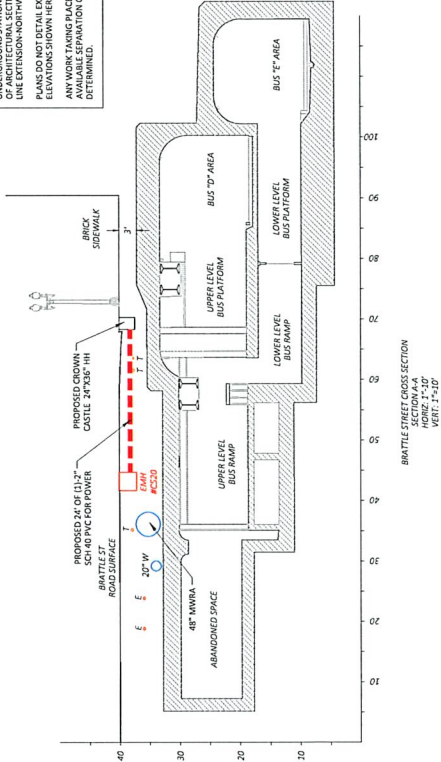
CONTRACTOR TO PLACE 12" DIA. 10' LONG CONCRETE CROWN CASTLE AT PROPOSED LOCATION AND ACCURATELY MARKED FOR CONSTRUCTION AND TO BE PROVIDED BY OTHER.

PROPOSED 2" OF 11.3" 400 PVC FOR POWER FROM 1/2" MM 1/2" DIA. 400 PVC FOR POWER TO PROPOSED HANG OFF LOCATION (COMMUNICATION POWER)

PROPOSED 2" OF 11.3" 400 PVC FOR POWER FROM 1/2" MM 1/2" DIA. 400 PVC FOR POWER TO PROPOSED HANG OFF LOCATION (COMMUNICATION POWER)

PROPOSED 2" OF 11.3" 400 PVC FOR POWER FROM 1/2" MM 1/2" DIA. 400 PVC FOR POWER TO PROPOSED HANG OFF LOCATION (COMMUNICATION POWER)

UNDERGROUND STATION DETAIL DERIVED FROM PROFILE SECTION 'N-SH' AS SHOWN IN THE ATTACHED PROFILE SECTION. THE STATION DETAIL IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY THE UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING AND MAINTAINING ALL EXISTING UTILITIES. ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



BRATTLE STREET CROSS SECTION SECTION A-A
 SCALE: 1" = 2'-0"
 DATE: 08/15/24

DUAL ACORN STREETLIGHT FOR PERMITTING ONLY



1" = 20 FEET (PRINTED 22X34)
 1" = 40 FEET (PRINTED 11X17)

SYMBOL	DESCRIPTION
X	ELECTRIC POLE
○	JOINT UTILITY POLE
□	LAMP POST
○	TRAFFIC LIGHT
○	CITY MANSOLE
○	SEWER MANSOLE
○	ELECTRIC MANSOLE
○	TELEPHONE MANSOLE
○	WATER MANSOLE
○	POLE AND/OR GUY
○	SEWER POLE
○	RIGHT OF WAY
○	STEEL POST
○	STONE BOUND
○	STREET LIGHT
○	GUARD RAIL
○	ELECTRIC WALL
○	TRANSFORMER
○	TELEPHONE WALL
○	WATER WALL
○	PROPOSED CONDUIT

NOTE:
 EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT GUARANTEED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY THE UTILITY COMPANY BEFORE BEGINNING ANY EXCAVATION.

CALL BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 1-800-4-A-SHARE
 800-4-A-SHARE

PREPARED BY
PIKE TELECOM
 21 Shaker Rd
 Cambridge, MA 02142
 617-552-1000

PREPARED BY
CROWN CASTLE

REV#	DESCRIPTION	DATE
1	MBTA UPDATE	09/20/21
2	CONFIGURATION UPDATE	12/15/21

TITLE
 HQ-001 - BRATTLE ST AT MASSACHUSETTS AVE
 CROWN CASTLE - PETITION PLAN
 CAMBRIDGE, MA

DRAWN BY	PIKE TELECOM	SCALE	AS NOTED
DATE	08/15/24	PROJECT	AS SHOWN

ALL FIELD DATA ACQUIRED USING TOTAL STATION SURVEY EQUIPMENT

CONTRACTOR TO PRESERVE BRICK SIDEWALK AND RESTORE TO ORIGINAL CONDITION IN TRENCH AREA

NOTE: MAINTAIN MINIMUM SEPARATION OF FOUNDATION FROM MBTA STRUCTURE AS DIRECTED BY MBTA. WEATHERPROOF MEMBRANES FOR STATION AND TUNNELS TO BE PROTECTED AT ALL TIMES DURING CONSTRUCTION

