



CITY OF SOMERVILLE

Commonwealth of Massachusetts

93 Highland Avenue

Somerville, MA 02143

(617) 625-6600

BUSINESS LICENSE APPLICATION - Small Wireless Facility

File #: 19-014834

License #: BL19-000087

Address: 9 AUSTIN ST

Licensee: Matthew Pricco Network Building + Consulting

DBA Name: ExteNet Systems, Inc.

Business Ownership Type: Corporation

Legal Name of Entity: ExteNet Systems, Inc.

Owners/Officers: James A. Hyde, H. Anthony Lehv, Daniel L. Timm,

License Information:

Do you believe this to be a 6409(a) application?:

Describe the reason for the work, and the intended beneficiaries:

Provide the detailed description of the work that should appear on the License: Installation of a small cell wireless facility on a wood utility pole in the public right-of-way at 9 Austin St as depicted on the drawings accompanying this application. The facility will improve wireless communications services for residents, businesses, and visitors in the vicinity.

of installations on existing poles: 1

of installations on new poles:

Provide the legal name of the entity that will own the License: ExteNet Systems, Inc.

Approval Conditions:

Approved By:

Hans Jensen, Approved

Karla Cuarezma, Approved

Malik Drayton, Approved

John Power, Approved

Mark Lawhorne, Approved

John J. Long, Approved

LATITUDE: 42.387485°
LONGITUDE: -71.080403°

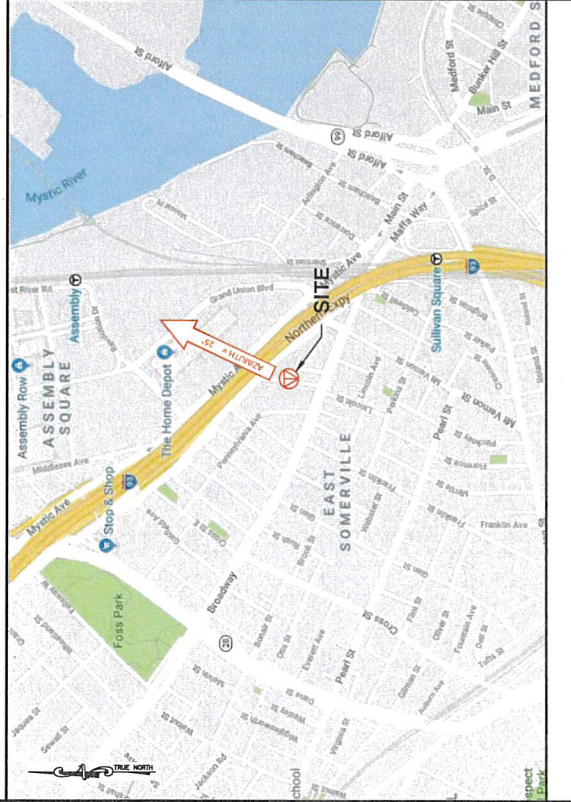


NE-MA-BSTN3N01-TMO NE-MA-BSTN3N01-03329 / NE3208BA_11LAB

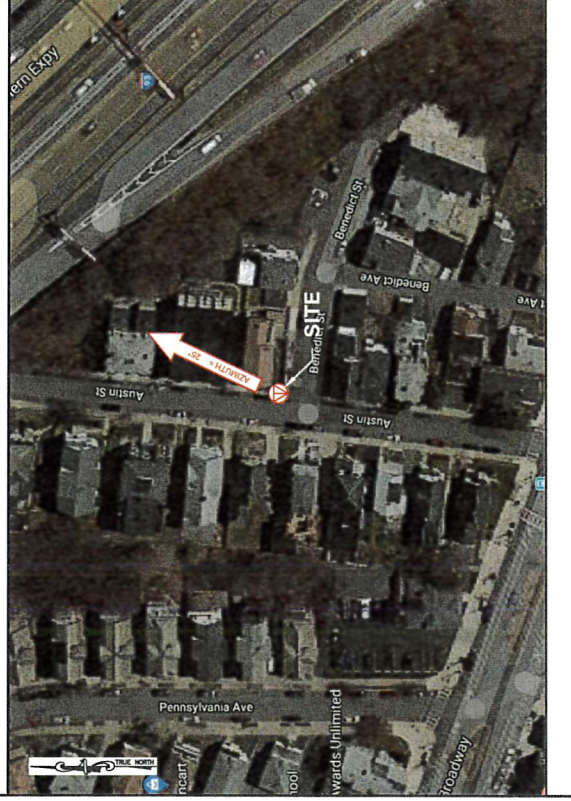
PROPOSED SMALL CELL NODE
9 AUSTIN STREET, SOMERVILLE, MA 02145
CITY OF SOMERVILLE, MIDDLESEX COUNTY



VICINITY MAP



AERIAL MAP



PROJECT INFORMATION

PROJECT NAME: NE-MA-BSTN3N01-TMO
POLE TAG: NO TAG
LATITUDE: 42.387485°
LONGITUDE: -71.080403°
CITY OF SOMERVILLE
MIDDLESEX COUNTY
EXTENET PROJECT MANAGER: RICK ANSELMI
133 E. WILLOW ST., SUITE 340
SOMERVILLE, MA 02145
HUB LOCATION: HUB NE00000A
133 E. WILLOW ST., SUITE 340
SOMERVILLE, MA 02145
ELECTRIC COMPANY: EVERSOURCE

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS AND SPECIFICATIONS. THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS AND SPECIFICATIONS ARE REQUIRED FOR THE PROJECT. THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS AND SPECIFICATIONS ARE REQUIRED FOR THE PROJECT.

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL ELECTRICAL CODE (LATEST EDITION)
- 2017 NATIONAL ELECTRICAL CODE
- NFPA 1-2015 EDITION
- 2015 IFC - REFERENCE 527 CMR
- AMERICAN CONCRETE INSTITUTE CONSTRUCTION MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSIPHA-222-G
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSIR 311

DRAWING INDEX

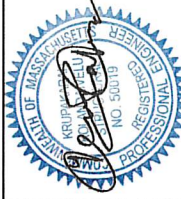
- | 01 | TITLE SHEET |
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| 02 | NOTES |
| 03 | ELEVATION |
| 04 | ANTENNA & EQUIPMENT DETAILS |
| 05 | ELECTRICAL & GROUNDING DETAILS |



NE-MA-BSTN3N01-03329
TMO ID: NE3208BA_11LAB
9 AUSTIN STREET
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
1	09/15/19	POC REVIEWED	NEB
2	09/15/19	FINAL	CHE
3	09/15/19	POC REVIEWED	NEB
4	09/15/19	POC REVIEWED	NEB
5	09/15/19	POC REVIEWED	NEB
6	09/15/19	POC REVIEWED	NEB
7	09/15/19	POC REVIEWED	NEB
8	09/15/19	POC REVIEWED	NEB
9	09/15/19	POC REVIEWED	NEB
10	09/15/19	POC REVIEWED	NEB
11	09/15/19	POC REVIEWED	NEB
12	09/15/19	POC REVIEWED	NEB
13	09/15/19	POC REVIEWED	NEB
14	09/15/19	POC REVIEWED	NEB
15	09/15/19	POC REVIEWED	NEB
16	09/15/19	POC REVIEWED	NEB
17	09/15/19	POC REVIEWED	NEB
18	09/15/19	POC REVIEWED	NEB
19	09/15/19	POC REVIEWED	NEB
20	09/15/19	POC REVIEWED	NEB



RIK ANSELMI, P.E.
MA PROFESSIONAL ENGINEER LIC. #52019

TITLE SHEET

SHEET
01 OF 05

— 10 —

- ## HEAT SHRINK

1. PREHEAT THE SELF-ADHESIVE HEAT SHINK TO ABOUT 275°F (135°C) BY PLACING IT IN A DRY HEATING OVEN. DO NOT EXCEED 300°F (149°C) OR THE HEAT SHINK WILL BECOME TOO SOFT AND WILL NOT BE ABLE TO HOLD THE CONNECTIONS.
2. PREHEAT THE CONNECTORS WITH A 60 WATT ELECTRICAL HEAT GUN. DO NOT EXCEED 375°F (191°C) OR THE CONNECTORS WILL BECOME TOO SOFT AND WILL NOT BE ABLE TO HOLD THE CONNECTIONS.
3. USE ONLY OUTGASSED HEAT SHINK THAT HAS THE SELF-ADHESIVE WHEN HEATED PROPERLY. THIS IS THE ONLY TYPE OF HEAT SHINK THAT WILL HOLD THE CONNECTIONS.
4. MAKE SURE THE HEAT SHINK COVERS ALL OF THE COMPLEX AND CONNECTIONS. HEAT THE HEAT SHINK TO 275°F (135°C) AND PRESS IT ON THE CONNECTORS. MAKE SURE THE HEAT SHINK WAS NOT OVER HEATED AND THERE ARE NO BUBBLES IN THE HEAT SHINK. PRESSURE THE HEAT SHINK TIGHTLY ON THE CONNECTOR.
5. MAKE SURE THE HEAT SHINK COVERS ALL OF THE COMPLEX AND CONNECTIONS. HEAT THE HEAT SHINK TO 275°F (135°C) AND PRESS IT ON THE CONNECTORS. MAKE SURE THE HEAT SHINK WAS NOT OVER HEATED AND THERE ARE NO BUBBLES IN THE HEAT SHINK. PRESSURE THE HEAT SHINK TIGHTLY ON THE CONNECTOR.

ADDITIONAL CABLE SHALL

1. PROPERLY TENSION CONNECTOR TO SPECIFICATION.
2. APPLY ONE LAYER OF 3/4" INCH STRIP TAPE AROUND ENTIRE CONNECTOR ENDING AT LEAST 1-1/2" INCHES PAST TOP AND BOTTOM OF CONNECTOR TO PROVIDE AN ADDITIONAL SOURCE FROM STITCHES TO THE CONNECTOR.
3. INSPECT THE DESIGN TO MAKE SURE IT IS NOT CORRUPTED. LOCATE OR ANY SIZES OF HOLE THAT WILL TAKE

1. PROPERLY TIGHTEN CONNECTOR TO SPECIFICATION.
2. APPLY ONE LAYER OF 3/4" INCH BLACK TAPE AROUND ENTIRE CONNECTOR ENDING AT LEAST 1-1/2" INCHES FAST TOP AND BOTTOM OF CONNECTOR TO PREVENT ANY DISTURBANCE FROM STRESS TO THE CONNECTOR.
3. INSPECT THE DEVICE TO MAKE SURE IT IS NOT CHIPPED, CRACKED OR ANY SIGNS OF NEGLECT THAT WILL TAKE ANY FURTHER MAKING A FULL SCALE AROUND THE CONNECTOR TYPE.
4. 1/2" INCH CORRECT SIZE PER CABLE AND CONNECTOR TYPE - (IE: 1/2" INCH FOR 1/2" INCH NOT 7/8" FOR 1/2" INCH).
5. FOLLOW DIRECTIONS THAT COME WITH PRODUCT - MOST CABLE SHELL TYPE ELIMANT DEVICES WARP AROUND OR CLAMP AROUND A CONNECTION POINT.
6. BE CAREFUL WHEN SETTING LOCKING DEVICE AND PLACE ON CABLE SHELL TYPE SPANERS THEY ARE PLASTIC AND NEED TO BE USED CAREFULLY. IF YOU HAVE A CRACKED OR CHIPPED SHELL TYPE CLAMPED TO REQUIRE TO BE REPLACED. IF YOU HAVE A CRACKED OR CHIPPED SHELL TYPE CLAMPED TO REQUIRE TO BE REPLACED.
7. ONCE THE CLAMP IS ON AND LOCKED AROUND THE CONNECTOR THE PROCESS IS COMPLETE.

1. PLACE BOOT OVER CABLE AND CONNECTOR. DO NOT STRETCH THE BOOT. THE BOOT MUST NOT BE STRETCHED TO FIT THE CABLE OR THE CONNECTOR. IF THE BOOT IS STRETCHED TO FIT THE CABLE OR THE CONNECTOR, IT WILL NOT PROTECT THE CABLE OR THE CONNECTOR. IF THE BOOT IS STRETCHED TO FIT THE CABLE OR THE CONNECTOR, IT WILL NOT PROTECT THE CABLE OR THE CONNECTOR. IF THE BOOT IS STRETCHED TO FIT THE CABLE OR THE CONNECTOR, IT WILL NOT PROTECT THE CABLE OR THE CONNECTOR.
2. SLIDE THE BOOT OVER THE CABLE, AND THEN MAKE THE CONNECTION.
3. TIGHTEN THE CONNECTION TO PROPER SPECIFICATIONS.
4. SLIDE BOOT UP TO COVER THE ENTIRE CONNECTION, FOLLOWING THE IPC GUIDELINES.

THIS PROCESS IS COMPLETE AT THIS TIME.

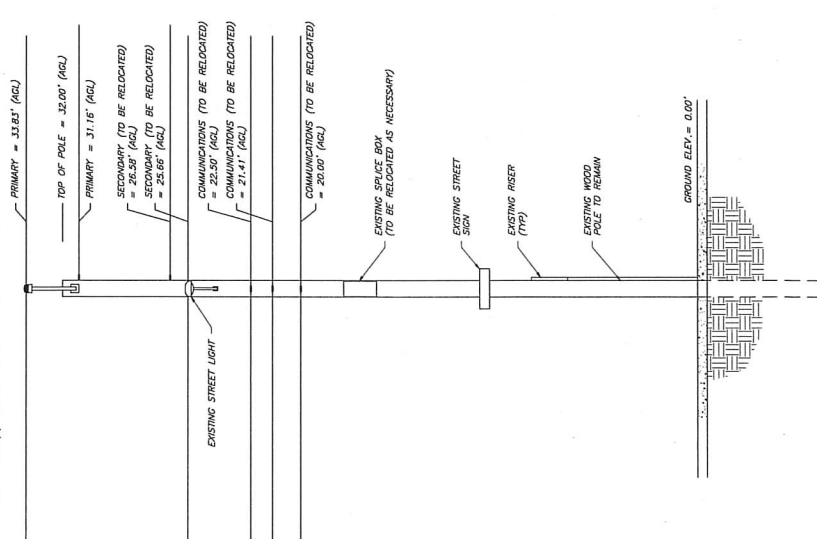
**Know what's below.
Call before you dig.**

[illegible][illegible]

1. ROD COUSNET SHALL BE ALL LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED TO PROTECT THE INTERIOR OF THE ROD COUSNET FROM CORROSION. THE ROD COUSNET SHALL BE 1/2" WASHNET WARPED OR EXPOSED ON TRAILING EDGES. THE ROD COUSNET IN CONTACT WITH EARTH SHALL BE 1/2" LAPPED WAPPED WITH Joints W/ PROCESS NO. 3.
2. ELECTRICAL METAL TUBING SHALL HAVE ALL LABEL FITTINGS SHALL BE GLAND RING COMPRESSION TYPE.
3. EMT SHALL BE USED ONLY FOR INTERIOR TUBING.
4. LIGHT-TOUCH FLEXIBLE METAL CONDUIT SHALL BE LISTED AND SHALL BE USED AT JOINT CONNECTIONS TO BE USED TO PROTECT THE INTERIOR OF THE ROD COUSNET FROM CORROSION. THE ROD COUSNET SHALL BE 1/2" WASHNET WARPED OR EXPOSED ON TRAILING EDGES. THE ROD COUSNET IN CONTACT WITH EARTH SHALL BE 1/2" LAPPED WAPPED WITH Joints W/ PROCESS NO. 3.

NOTES:

- EQUIPMENT ELEVATION IS SUBJECT TO MAKE READY PERFORMED BY POLE OWNER.
- NEW PLACED SHALL BE CSA COMPLIANT AND DISPLAY THE FOLLOWING INFORMATION: TRANSMITTING SYSTEM, MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, INSTALL PER UTILITY COMPANY REQUIREMENTS AND VERIFY EXACT MOUNTING HEIGHT IN FIELD.
- MAINTAIN MINIMUM OF 8'-6" FROM GROUND LEVEL TO BOTTOM OF PROPOSED SHROUD.
- MAINTAIN MINIMUM OF 42" FROM TOP COMMUNICATION ATTACHMENT TO BOTTOM SECONDARY POWER ATTACHMENT.
- MAINTAIN MINIMUM OF 48" CLEARANCE IN ANY DIRECTION FROM ANTENNA AND MOUNTING BRACKET TO NEAREST SECONDARY POWER CONNECTION.
- MAINTAIN MINIMUM OF 12" FROM TOP COMMUNICATIONS LINE TO ANY ADDITIONAL COMMUNICATIONS LINE.
- MAINTAIN MINIMUM OF 5' FROM GROUND LEVEL TO METER LOCATION.
- EQUIPMENT TO BE INSTALLED ON OPPOSITE SIDE OF TRAFFIC FLOW.
- POWER SUPPLY & WEATHERHEAD SHALL BE INSTALLED ON THE SAME SIDE OF THE POLE WITH THE SECONDARY(S) AND COMMUNICATION CABLE(S) TO ACCOMMODATE CLEARANCE OF THE POLE.

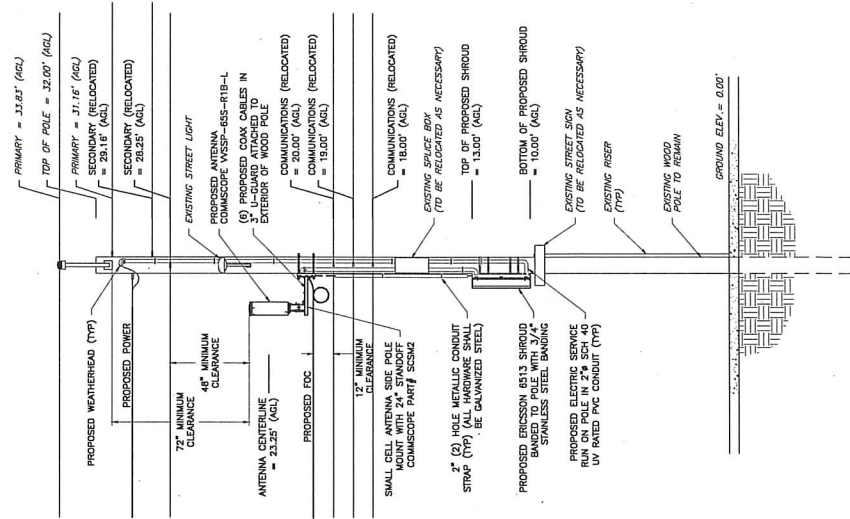


EXISTING ELEVATION (LOOKING EAST)



NOTE: NO INSTALLATION SHALL BE PLACED LESS THAN 15 FEET FROM A RESIDENCE'S WINDOW, DOOR OPENING, PORCH, OR BALCONY.

ATTACHMENT HEIGHTS, ANTENNA AND EQUIPMENT LOCATIONS
PENDING MAKE-READY AND STRUCTURAL ANALYSIS



PROPOSED ELEVATION (LOOKING EAST)



15' COMPLIANCE

ENGINEERING FIRM	APPLICANT	SITE INFORMATION	DESIGN RECORD	PROFESSIONAL STAMP	ENGINEER	SHEET TITLE	SHEET NUMBER																								
NB+C TOTALLY COMMITTED NB+C ENGINEERING SERVICES, LLC 1000 WASHINGTON STREET SOMERVILLE, MA 02145 (617) 305-1000	extenel YOUR NETWORKS EVERYWHERE SYSTEMS 3000 WASHINGTON SUITE 300 LISLE, IL 60532 (815) 305-1000	NE-MA-BSTN3N01-03329 TMO ID: NE3208BA.11LAB 9 AUSTIN STREET SOMERVILLE, MA 02145 MIDDLESEX COUNTY	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>05/15/19</td> <td>PDC REVIEW</td> <td>NAB</td> </tr> <tr> <td>2</td> <td>05/15/19</td> <td>FINAL</td> <td>ONE</td> </tr> <tr> <td>3</td> <td>05/15/19</td> <td>REVIEW</td> <td>NAB</td> </tr> <tr> <td>4</td> <td>07/26/19</td> <td>MOUNT REVIEW</td> <td>ONE</td> </tr> <tr> <td>5</td> <td>07/26/19</td> <td>15' COMPLIANCE ASSESS</td> <td>ONE</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	1	05/15/19	PDC REVIEW	NAB	2	05/15/19	FINAL	ONE	3	05/15/19	REVIEW	NAB	4	07/26/19	MOUNT REVIEW	ONE	5	07/26/19	15' COMPLIANCE ASSESS	ONE		KRUPAKARAN KOLANDAVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019	ELEVATION	03 OF 05
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