



CITY OF SOMERVILLE
Commonwealth of Massachusetts
93 Highland Avenue
Somerville, MA 02143
(617) 625-6600

BUSINESS LICENSE APPLICATION - Grant of Location

File #: 21-000899

License #: BL21-000006

Address: 278 BROADWAY

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:

Grant of location issued to: ExteNet Systems, Inc.

Describe the reason for the work, and the intended beneficiaries: This work is necessary to provide an underground connection for a small wireless facility at 278 Broadway. The facility will improve wireless communications services for residents, businesses, and visitors in the vicinity.

Insert here the same detailed description of the work as appears in the attached Grant of

Location Order: Broadway: - Starting at existing Eversource MH #7502 placing (1) 3" PVC for Power Feed approximately 38' to the Proposed Handhole 2' N/NW of Proposed NE-MA-BSTN3N01-03332 Node Location. - Proposed 24x24x24 Handhole to service NE-MA-BSTN3N01-03332 Node Location. - Starting at Proposed Handhole placing (1) 3" PVC for Power Feed approximately 2' to the Proposed NE-MA-BSTN3N01-03332 Node Location.

Approval Conditions:

Approved By:

Karla Cuarezma, Approved

Malik Drayton, Approved

Mark Lawhorne, Approved

John J. Long, Approved



CITY OF SOMERVILLE, MASSACHUSETTS
CITY CLERK'S OFFICE
JOSEPH A. CURTATONE
MAYOR

JOHN J. LONG
CITY CLERK

February 17, 2021

NOTICE OF PUBLIC HEARING

You are hereby notified that the Somerville City Council will hold a Public Hearing on the following Petition. You are receiving this Notice because the Petitioner has reported that you own property that abuts the work that is being proposed. You and other members of the public are invited to attend and be heard at this Hearing.

Because of Governor Baker's and Mayor Curtatone's recent orders limiting the number of people that may gather in one place, **this meeting of the City Council will be conducted via remote participation, online in a webinar hosted on the GoToWebinar platform.**

You have two ways to be heard at this meeting:

1. To attend and be heard, enter the link exactly as it appears below into your internet browser any time before the meeting. You will then be asked to register for the meeting. After registering, you will receive an email with instructions to join the webinar when it starts.
2. If you are unable to attend but wish to be heard, you may send written comments by US mail to the City Clerk at the address below, or by email to cityclerk@somervillema.gov. Your comments must arrive no later than 12 Noon on the day of the Hearing, in order to be sure they are conveyed to the Council.

PETITION: Extenet seeks a Grant of Location to install a total of 40 feet of conduit near the intersection of Broadway and Kenneson Road as follows: Starting from Eversource manhole 4551 to a proposed handhole, then continuing 2 feet to a small wireless facility node.

PLACE: <https://attendee.gotowebinar.com/register/5990338772693004299>.

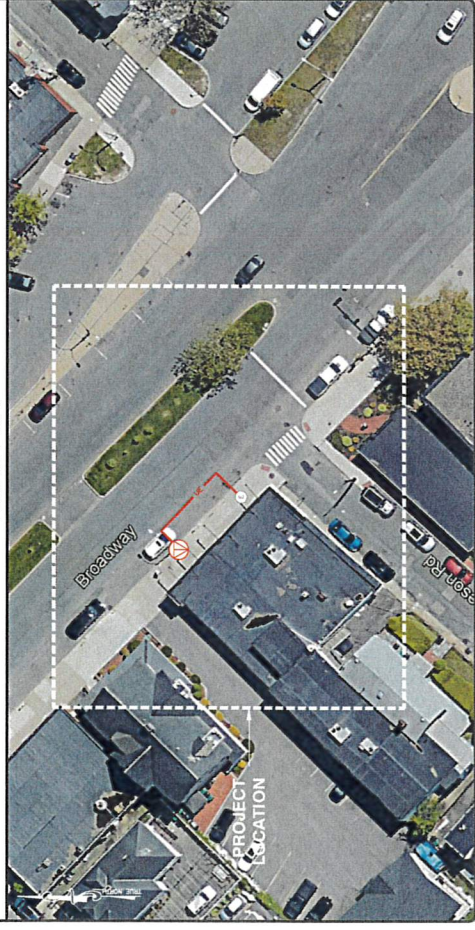
TIME: Thursday, February 25, 2021, at 7:00 PM.

PURPOSE: The work is necessary to provide service to a small wireless facility.

extenet SM YOUR NETWORK. EVERYWHERE.
 SYSTEMS
NE-MA-BSTN3N01-TMO-03332
HUB: 4BS0365B
 PETITION PLANS

278 BROADWAY, SOMERVILLE, MA 02145
 CITY OF SOMERVILLE, MIDDLESEX COUNTY

VICINITY MAP



| LEGEND | |
|--------|-------------------------------|
| | PROPERTY LINE |
| | RIGHT-OF-WAY |
| | EXISTING FENCE LINE |
| | EDGE OF PAVEMENT |
| | EXISTING GAS LINE |
| | EXISTING SEWER LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING O/H UTILITY LINE |
| | EXISTING WATER SERVICE |
| | EXISTING TELEPHONE |
| | EXISTING ELECTRIC |
| | EXISTING CONDUIT |
| | PROPOSED TRENCH |
| | PROPOSED ELECTRIC |
| | PROPOSED UNDERGROUND FIBER |
| | HUB |
| | FIBER NODE |
| | SPLICE ENCLOSURE |
| | SLACK LOOP |
| | PROPOSED RISER |
| | POLE GROUNDING |
| | UTILITY POLE |
| | LIGHT POLE |
| | TRAFFIC POLE |
| | WATER VALVE |
| | GAS VALVE |
| | TELEPHONE MANHOLE |
| | ELECTRIC MANHOLE |
| | UNKNOWN MANHOLE |
| | HANDHOLE |
| | STORM DRAIN |
| | ELECTRIC VAULT |
| | EXISTING STRUCTURE |
| | STORM DRAIN MANHOLE |
| | SANITARY SEWER MANHOLE |
| | HYDRANT |
| | EXISTING DOWN GUY WITH ANCHOR |
| | PROPOSED DOWN GUY WITH ANCHOR |
| | EXISTING DOWN GUY WITH ANCHOR |
| | EXISTING ANCHOR |

| PROJECT INFORMATION | |
|--------------------------|---|
| SITE NAME: | NE-MA-BSTN3N01-TMO-03332 |
| NB-C ES PROJECT NUMBER: | 100650 |
| JURISDICTION: | CITY OF SOMERVILLE MIDDLESEX COUNTY |
| EXTENET PROJECT MANAGER: | RICK ANGELINI LISLE, IL 60532 NOC: (866) 392-5377 |
| HUB LOCATION: | 4BS0365B BROADWAY SOMERVILLE, MA 02145 |
| ELECTRIC COMPANY: | EVERSOURCE |

| CODE COMPLIANCE | |
|---|--|
| ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES: | |
| • | 2015 INTERNATIONAL BUILDING CODE (MASSACHUSETTS AMENDED 9TH EDITION) |
| • | 2017 NATIONAL ELECTRICAL CODE NFPA 70-2015 EDITION |
| • | 2015 IFC - REFERENCE I27 CMR |
| • | AMERICAN CONCRETE INSTITUTE |
| • | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| • | MANUAL OF STEEL CONSTRUCTION 13TH EDITION |
| • | ANSI/A232-5 |
| • | TIA 807 |
| • | INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 |
| • | IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION |
| • | TELECORDIA GR-125 |
| • | ANSI/J 311 |

| | | | | | | | | | |
|--------------------|--|---|---------------|--|---------------|--------------------|---|-------------|---------------------------------|
| COBUCS# N/A | NB-C TOTALLY COMMITTED. NB-C ENGINEERING SERVICES, LLC. 100 HAPOLLO DRIVE, SUITE 303 SOMERVILLE, MA 02145 (978) 865-3332 | extenet YOUR NETWORK. EVERYWHERE. SYSTEMS 300 WAREHOUSE ROAD, SUITE 400 SOMERVILLE, MA 02145 (800) 562-3069 | Mobile | NE-MA-BSTN3N01-03332 4BS0365B 278 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY | REVISIONS | | KRUPAKARANI KOULINDAVELU, P.E. MA PROFESSIONAL ENGINEER LIC. # 50019 | TITLE SHEET | SHEET NUMBER 01 OF 05 |
| COBUCS INFORMATION | ENGINEERING FIRM | APPURANT | | SITE INFORMATION | DESIGN RECORD | PROFESSIONAL STAMP | ENGINEER | SHEET TITLE | SHEET NUMBER |

| DRAWING INDEX | |
|---|----------------------------|
| 01 | TITLE SHEET |
| 02 | NOTES |
| 03 | UTILITY PLAN |
| 04 | DETAILS |
| 05 | FOUNDATION DETAILS & NOTES |
| PROJECT TEAM | |
| ENGINEERING FIRM: NB-C ENGINEERING SERVICES, LLC. 100 HAPOLLO DRIVE, SUITE 303 SOMERVILLE, MA 02145 (978) 865-3332 | |
| DRAWING SCALE | |
| THESE DRAWINGS ARE DESIGNED TO FULLY USE AT 1/8"=1'-0" AND HALF SIZE AT 1/4"=1'-0". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE GROUND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION. | |


GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT.
2. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND SPECIFICATIONS ALL NECESSARY INFORMATION FOR THE CONTRACTOR TO COMPLETE THE PROJECT AND NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BE RESPONSIBLE FOR NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE JOB SITE UPON THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY ON SITE, ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY ON SITE, ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBS, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY TO ORIGINAL OR BETTER CONDITION.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, OILS, OR SLUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHERE A CONFLICT OCCURS ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY CONFLICTS THAT OCCUR ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY CONFLICTS THAT OCCUR ON THE PROJECT.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT.
16. SUBMITTALS OF BIDS INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
18. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AS WELL AS SUPERVISOR'S ORDERS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, AND LOCAL AND STATE JURISDICTIONAL AGENCIES BEARING ON THE PROJECT.
20. AFTER COMPLETION OF CONSTRUCTION, RED UNED AS-BUILT PLANS SHALL BE PROVIDED TO THE OWNER IN GOOD CONDITION, UPON SIGNED RECEIPT UPON DELIVERY.
21. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC. REQUIRED BY THE AUTHORITIES HAVING JURISDICTION, DELIVER COPIES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK.
22. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE THAT COULD AFFECT THE WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE THAT COULD AFFECT THE WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE THAT COULD AFFECT THE WORK UNDER THIS CONTRACT.
23. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CONFLICTS ARE IDENTIFIED AND RESOLVED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CONFLICTS ARE IDENTIFIED AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE AT THE COMPLETION OF THE PROJECT.

25. THE CONTRACTOR IS RESPONSIBLE FOR REMEDIATION OF ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, AND INFRASTRUCTURE CAUSED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, AND INFRASTRUCTURE CAUSED BY THE CONSTRUCTION OF THIS PROJECT.
26. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT AND MATERIALS SHALL BE DETERMINED BY THE FIELD ENGINEER AND/OR OWNER'S REPRESENTATIVE.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR RESTORATION OF ANY DAMAGE TO EXISTING ACCESS ROADWAY AND ANY ADJACENT SITE AS A RESULT OF HIS USE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR RESTORATION OF ANY DAMAGE TO EXISTING ACCESS ROADWAY AND ANY ADJACENT SITE AS A RESULT OF HIS USE DURING CONSTRUCTION.
28. ALL ANCHORS SHALL BE 6 LONG, DOUBLE ETD, 10" SCREW TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
29. ALL LATERAL CABLE SHALL BE DOUBLE-LASHED USING 0.45 STAINLESS LASHING WIRE.
30. THE TOP OF ALL BENCH CONDUIT/CABLE WILL BE PLACED 48" BELOW GRADE UNLESS OTHERWISE SPECIFIED ON PLANS.
31. MAXIMUM PULLING TENSION ON CABLES IS 600 LBS.
32. THE CONTRACTOR SHALL CONTACT ONE CALL FOR LOCATION OF EXISTING UTILITIES MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
33. FOR OPTIMUM PROTECTION, CONSTRUCTION TO EXISTING MULTI-CORNERED METAL (MCM) SHOULD BE THE 1ST CHOICE FOR BONDING. PER NEC 90-C, MULTI-CORNERED SYSTEMS ARE TO BE BONDED AT EACH TRANSFORMER LOCATION AND AT ADDITIONAL POINTS WITH MADE OR EXISTING ELECTRODES TO TOTAL NOT LESS THAN FOUR GROUNDS IN EACH WILE.
34. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN THE PROJECT BEING SHUT DOWN, ACCORD, AND A DOUBLING OF THE PERMIT FEE.
35. THE EXISTING UTILITY INFORMATION SHOWN REPRESENTS THE BEST DATA AVAILABLE FROM EXISTING DOCUMENTATION AND FIELD EVIDENCE. ALL LOCATIONS SHOULD BE CONSIDERED AS APPROXIMATE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CONSTRUCTION ACTIVITIES. NOTE THAT THESE PLANS MAY NOT SHOW ALL UTILITIES THAT ARE PRESENT AT THE SITE.

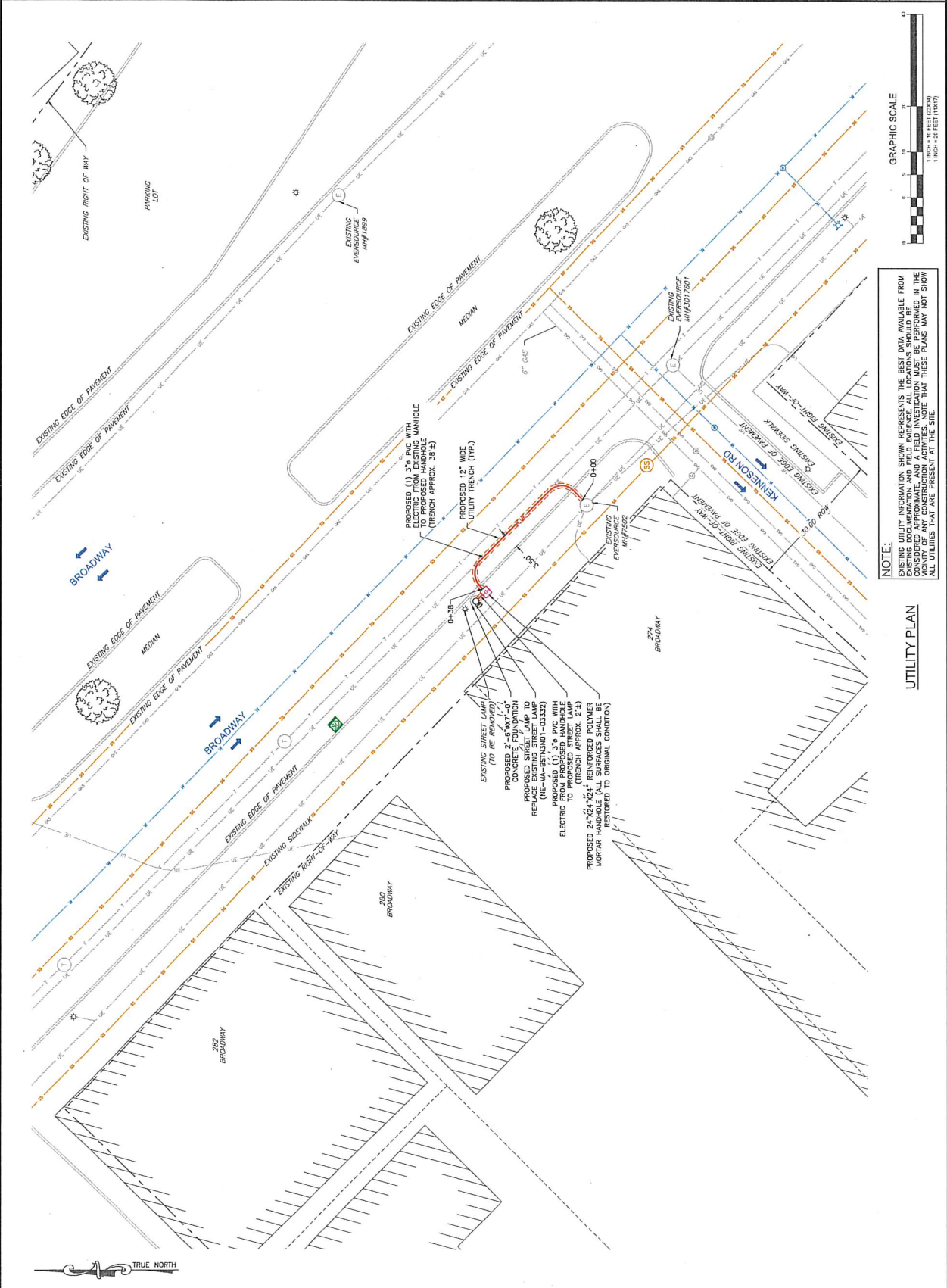
MANHOLE NOTES:

1. THE JOBS FOR MANHOLE FRAMES AND COVERS SHALL BE INSTALLED FLUSH WITH GROUND, UNLESS OTHERWISE NOTED.
2. THE BRICK HOLE SHALL BE FILLED WITH AGGREGATE CONFORMING TO THE REQUIREMENTS OF 805, GRADING NO. 97.
3. CONDUIT ENTERING MANHOLES SHALL BE TERMINATED FLUSH WITH THE INSIDE WALL.
4. CONDUIT SHALL BE ALLOWED IN AS NEARLY A STRAIGHT LINE AS POSSIBLE TO ALLOW FOR EASY REMOVAL OF CABLES BETWEEN THE MANHOLE AND THE STRUCTURE WALL. SHALL BE FILLED OR PATCHED WITH CONCRETE OF ACCEPTABLE EQUAL. SO THERE WILL BE NO LEAKAGE.
5. MANHOLES SHALL BE SEATED ON TRENCH FILL MEETING THE REQUIREMENTS OF 804.05 IN ORDER TO PREVENT SETTLEMENT.
6. THE FRAME AND COVER SHALL BE PAINTED BEFORE INSTALLATION WITH 1 FIELD COAT OF PRIMER MEETING THE REQUIREMENTS OF 811.03.
7. COVERS FOR MANHOLES AND HANDHOLES SHALL BE MARKED ON THE OUTSIDE. MARKING SHALL BE PLACED PARALLEL TO THE LONG SIDE OF THE COVER.
8. EACH COVER SHALL HAVE TWO 0.875 INCH PICK HOLES TO ALLOW THE COVER TO BE REMOVED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING NECESSARY IN ORDER TO INSTALL THE MANHOLES AND HANDHOLE SHOW ON THE PLANS.
10. THE CONTRACTOR SHALL ELECTRICALLY GROUND ALL METALLIC OBJECTS COMPRISING THE MANHOLE AND HANDHOLE INCLUDING THE FRAME AND COVER, CABLE RACKS AND REINFORCING STEEL AS APPROPRIATE.
11. CABLE RACKS SHALL BE INSTALLED IN THE MANHOLE AS DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR SHALL ADJUST THE MANHOLE TO GRADE USING A POURED CONCRETE COLLAR.
13. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TEMPORARY PATCHING AROUND THE MANHOLE AND HANDHOLE AND MAINTENANCE OF THE PATCH UNTIL THE PERMANENT STREET CUT REPAIRS HAVE BEEN MADE.
14. THE CONTRACTOR WILL SUBMIT CATALOG CUTS OF ALL PRECAST MANHOLES AND HANDHOLES TO THE OWNER FOR REVIEW AND APPROVAL. ALL STRUCTURES TO BE INSTALLED IN THE ROADWAY OR AREAS SUBJECT TO VEHICLE.

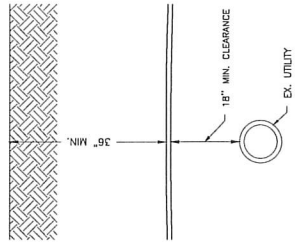
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| COBUCS# N/A | NBC TOTALLY COMMITTED NBC ENGINEERING SERVICES, LLC 100 WASHINGTON STREET CHELSEA, MA 02156 (877) 654-3038 | extenet YOUR NETWORK EVERYWHERE 3030 WASHINGTON ROAD, SUITE 540 LITTLE ROCK, AR 72205 (501) 956-3300 Mobile | NE-MA-BSTN3N01-03332 4BS0365B 278 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY | REVISIONS | REV. DATE | DESCRIPTION | BY |  | KRISHNA KUMAR KOUMBARI, P.E. MA PROFESSIONAL ENGINEER # 50019 | NOTES | SHEET NUMBER 02 OF 05 |
|----------------|--|---|--|-----------|-----------|-------------|----|---|--|-------|---------------------------------|



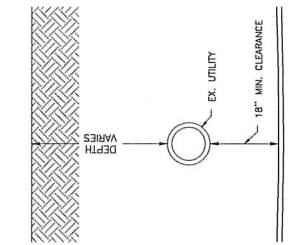
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| COBUCS# N/A | NB+C TOTALLY COMMITTED NB+C ENGINEERING SERVICES, LLC 100 ARNOLD DRIVE, SUITE 303 CHANDLER, AZ 85226 (480) 948-8388 | extenet YOUR NETWORK SYSTEMS SOLUTIONS 3030 WARDENVILLE AVENUE, SUITE 340 MABLETON, GA 30128 (770) 555-3800 | NE-MA-BSTJND1-03332 45S0365B 278 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY | REVISIONS | REV. DATE DESCRIPTION BY | | KRIPUNAWAN KOJANDAVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019 | UTILITY PLAN | SHEET 03 OF 05 |
| COBUCS INFORMATION | ENGINEERING FIRM | APP/POINT | SITE INFORMATION | DESIGN RECORD | PROFESSIONAL STAMP | ENGINEER | SHEET TITLE | SHEET NUMBER | |



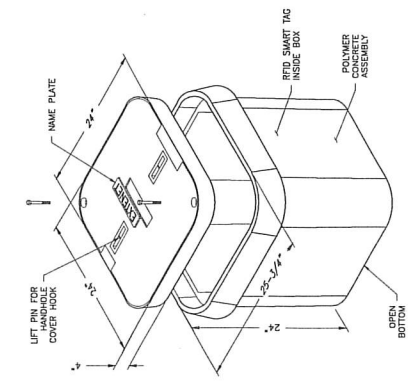
TRUE NORTH



3 TYPICAL UTILITY CROSSING ABOVE
04 NOT TO SCALE

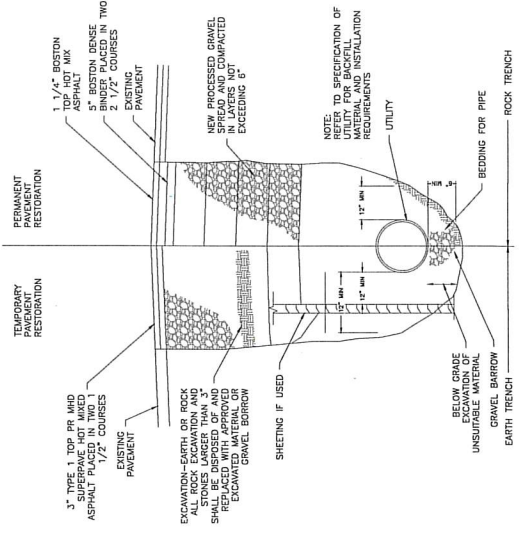


2 TYPICAL UTILITY CROSSING BELOW
04 NOT TO SCALE

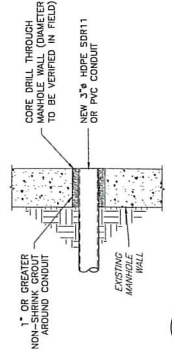


- PC02929242400005
247227224 TYPE-A VAULT
- NOTE:
1. THE MANHOLE SHALL BE SET WITH THE TOP COVER LEVELLED AND MATCHING THE EXISTING SURFACE.
 2. THE COVER SHALL BE USED TO UNDOCK BURNING. THE BASE OF THE MANHOLE/VAULT SHALL BE OPEN, AND PLACED IN THE CENTER OF THE PIT.
 3. MANHOLE/VAULT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE. THE MANHOLE/VAULT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE. THE MANHOLE/VAULT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE.
 4. THE DUCT PLACED INTO MANHOLE WALLS WILL USE APPROVED DUCT THERMOPLASTIC SEAL DUCT BURNING SEALANT TO SEAL THE DUCT WALL AND THE DUCT OPENING SHALL BE SEALED WITH A SEALANT.
 5. THE DUCT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE. THE DUCT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE.
 6. ALL MANHOLE/VAULTS SHALL BE SEALED USING AN APPROVED SEALANT DUCT SEALANT. THE DUCT SHALL BE SET TO A MINIMUM OF 18" ABOVE FINISH GRADE.
 7. ALL WALLS IN THE PUBLIC RIGHT OF WAY ARE TO BE TRAFFIC BURNING.

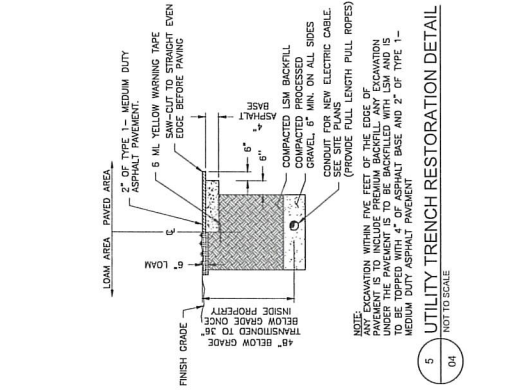
1 TYPICAL TYPE-A VAULT DETAILS
04 NOT TO SCALE



5 UTILITY TRENCH RESTORATION DETAIL
04 NOT TO SCALE



4 MANHOLE CONDUIT PENETRATION
04 NOT TO SCALE



6 TYPICAL UTILITY TRENCH SECTION
04 NOT TO SCALE

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UTILITIES AND ANY EXISTING FOUNDATION REMAINS.
- CONTRACTOR SHALL INSPECT AND RECORD ALL DEPTHS BOTTOM OF EXCAVATION.
- LATERAL BRACING SHALL BE INSTALLED TO PREVENT IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS TO BE VERIFIED PRIOR TO POURING CONCRETE.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT IS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). COMPRESSIVE STRENGTH OF CONCRETE SHALL BE VERIFIED USING ASTM C1064 OR 60 DEFORMED BARS. SUBSTITUTE USING A706 GR. 60 DEFORMED BARS. CONCRETE SHALL BE PLACED IN LAYERS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS. MAXIMUM STONE AGGREGATE MIX DESIGN: 6 1/2 SACKS OF CEMENT MINIMUM PER CUBIC YARD, 5" MINIMUM AND 7" MAXIMUM MAXIMUM AGGREGATE SIZE SHALL BE 1 1/2" MAXIMUM. CONTRACTOR SHALL ANTICIPATE THE USE OF A FULL-LENGTH ANCHOR BOLT. CONTRACTOR SHALL VERIFY THE PLACEMENT OF CONCRETE IN THE EXCAVATION SHALL BE PLACED USING VIBRATORY METHODS. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET. CONCRETE SHALL BE PLACED BELOW WATER USING THESE METHODS.
- CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ANCHOR BOLTS AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED. CONTRACTOR SHALL VERIFY THE PLACEMENT OF CONCRETE IN THE EXCAVATION SHALL BE PLACED USING VIBRATORY METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVER OVER REBAR. CORROSION POTENTIAL UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE FINISHED TO THE FINISHED GRADE. CONTRACTOR SHALL DRILLED PIER FOUNDATION DESIGN PER 2009/2012 IBC, TABLE 1805.2, CLASS 4 MATERIAL.
- CONTRACTOR SHALL VERIFY THE PLACEMENT OF CONCRETE IN THE EXCAVATION SHALL BE PLACED USING VIBRATORY METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVER OVER REBAR. CORROSION POTENTIAL UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE FINISHED TO THE FINISHED GRADE. CONTRACTOR SHALL DRILLED PIER FOUNDATION DESIGN PER 2009/2012 IBC, TABLE 1805.2, CLASS 4 MATERIAL.
- IS APPROXIMATELY 1.5 CU. YDS.

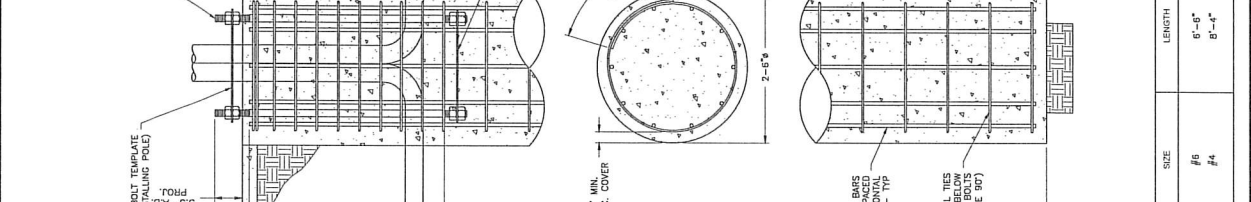
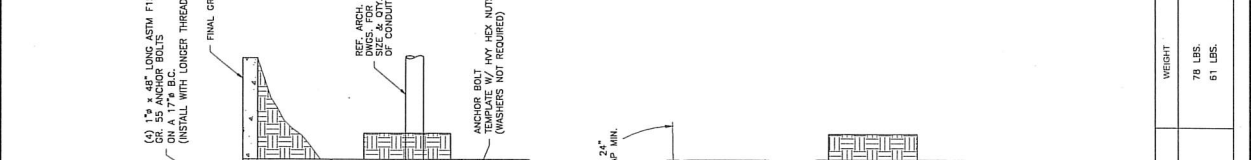
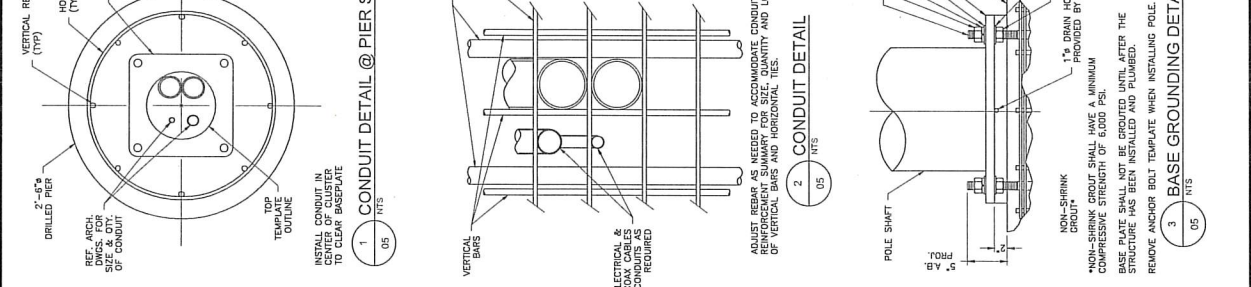
FACTORED BASE REACTIONS

MOMENT = 44.1 ft-kips
SHEAR = 2.78 kips
VERTICAL = 1.32 kips

SPECIAL INSPECTIONS

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2009/2012 IBC, SECTION 1704

| ITEM DESCRIPTION | INSPECTION BY | MATERIAL |
|----------------------|-------------------|------------------------------|
| 1. PIER EXCAVATION | ENGINEER | 300 PSF/FT LATERAL |
| 2. PIER CONSTRUCTION | SPECIAL INSPECTOR | ASTM A615 GR. 60 |
| 3. ANCHOR BOLTS | SPECIAL INSPECTOR | ASTM A1554 GR. 36 |
| 4. CONCRETE | SPECIAL INSPECTOR | f'c=4,000 PSI TYPE II CEMENT |



| DESCRIPTION | QTY. | SIZE | LENGTH | WEIGHT | OVERLAP |
|-----------------|------|------|--------|---------|---------|
| VERTICAL BARS | 8 | #6 | 6'-6" | 78 LBS. | N/A |
| HORIZONTAL TIES | 11 | #4 | 8'-4" | 61 LBS. | 2'-0" |

ADJUST REBAR AS NEEDED TO ACCOMMODATE CONDUIT. SEE REINFORCEMENT SUMMARY FOR SIZE, QUANTITY AND LOCATION OF VERTICAL BARS AND HORIZONTAL TIES.

*NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI.
BASE PLATE SHALL NOT BE GROUTED UNTIL AFTER THE STRUCTURE HAS BEEN INSTALLED AND PLUMBED.
REMOVE ANCHOR BOLT TEMPLATE WHEN INSTALLING POLE.

278 Broadway

List of Abutters for TMO Grant of Location

| Assessor Parcel | Property Address | Abutter Name | Abutter Mailing Address |
|-----------------|------------------|---|---------------------------------------|
| 71-B-3 | 278 Broadway | Maria Alves, trustee 274-278 Broadway St. Realty Trust | 40 Benton Rd. Somerville, MA 02143 |
| 70-B-15 | 273 Broadway | Anthony C. Simboli, trustee MacArthur Realty Trust | 397 Main St. Woburn, MA 01801 |
| 70-B-16 | 275 Broadway | Elizabeth Peabody House Inc. | 277 Broadway Somerville, MA 02145 |
| | | | |

Abutting Properties for
278 BROADWAY SOMERVILLE, MA
71/ B/ 3/ 1/
(50 Feet)

Location:
71/ B/ 4/ 1/
7 KENNESON RD
Owner:
FEHLAN WILLIAM J
10 WALNUT RD
SOMERVILLE, MA 02145

Location:
71/ B/ 2/ 2/
280 BROADWAY #2
Owner:
WANG YANBIN & MENG JIANGSHA
10 WHITTIER DRIVE
ACTON, MA 01720

Location:
71/ B/ 2/ 5/
280 BROADWAY #5
Owner:
FOULKES JOHN T
3 BRIDLE RD
CHELMSFORD, MA 01824

Location:
71/ C/ 1/ 1/
272 BROADWAY
Owner:
272 BROADWAY LLC
PO BOX 790
WINCHESTER, MA 01890

Location:
71/ B/ 2/ 3/
280 BROADWAY #3
Owner:
DIERBERGER AMY E
280 BROADWAY #3
SOMERVILLE, MA 02145

Location:
71/ B/ 2/ 6/
280 BROADWAY #6
Owner:
SNYDER ALEXANDRA
320 MERIDIAN ST UNIT 9
EAST BOSTON, MA 02124

Location:
71/ B/ 2/ 1/
280 BROADWAY #1
Owner:
280 BROADWAY LLC
41 CIRCUIT ROAD
MEDFORD, MA 02155

Location:
71/ B/ 2/ 4/
280 BROADWAY #4
Owner:
PATEL PURVI RAJENDRA
280 BROADWAY 4
SOMERVILLE, MA 02145

Location:
71/ B/ 2/ 7/
280 BROADWAY #7
Owner:
WINTER AMOS G
280 BROADWAY #7
SOMERVILLE, MA 02145