



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon,
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

CITY COUNCIL MEETING

TUESDAY, SEPTEMBER 13, 2022 AT 6:00 PM
RICHARD E. MASTRANGELO COUNCIL CHAMBER
ADMINISTRATION BUILDING, 149 MAIN STREET

AGENDA

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may comment through email: vpiccirilli@watertown-ma.gov

-
- 1. ROLL CALL
 - 2. EXECUTIVE SESSION - 6:00 P.M.
 - A. To Consider the Purchase, Exchange, Lease, or Value of Real Property as an Open Meeting May Have a Detrimental Effect on the Negotiating Position of the Public Body – 124 Watertown Street – Property 118 20
 - B. To Consider the Purchase, Exchange, Lease, or Value of Real Property as an Open Meeting May Have a Detrimental Effect on the Negotiating Position of the Public Body – Stanley Avenue – Parcel 807 1B 1A
 - 3. RETURN TO SESSION – 7:00 P.M.
 - 4. PLEDGE OF ALLEGIANCE
 - 5. PUBLIC FORUM
 - 6. EXAMINATION OF RECORDS OF PREVIOUS MEETINGS
 - A. City Council Meeting Minutes - August 9, 2022
 - 7. PRESIDENT'S REPORT

- A. Referral to the State, Federal, and Regional Government Committee a Review of the Election Process Procedures
 - B. Referral to the Committee on Public Works a Discussion of and Action on New Trash and Recycling Policies and Inflow and Infiltration fees.
8. PUBLIC HEARINGS
- A. Public Hearing and Vote on a Petition from National Grid for Consideration of a Grant of Location in Irving Street and a Private Way to Complete in Irving Street Relay and Maintenance of Approximately 480 Linear Feet of 4-Inch Plastic Gas Main from Riverside to the End of Main and Tie into the Existing 4-Inch Plastic Gas Main in Fifield Street and to Complete in the Private Way Relay of 490 Linear Feet of 2-Inch Plastic Gas Main Serving 114-146 Charles River Road from Irving Street to the End of Main. Upon Completion of the Department of Public Works Review, Said Work Is Subject to the Recommendations and Conditions by the City Council Should the Grant of Location Be Approved for This Application.
*This Agenda Item Will Be Heard on September 27, 2022.
 - B. Public Hearing and Vote on a Petition from Eversource for Consideration of a Grant of Location in Galen Street to Install and Maintain Approximately 106 Linear Feet of 6 - 5-Inch PVC Conduits from Manhole MH26530 to the Property Line at 66 Galen Street and Install and Maintain Approximately 62 Linear Feet of 6 5-Inch PVC Conduits from Manhole MH6178 at Aldrich Road to the Property Line at 66 Galen Street and in Water Street to Install and Maintain Approximately 36 Linear Feet of 4 - 4-Inch PVC Conduits from the Property Line at 66 Galen Street to the Property Line at 0 Water Street and Install and Maintain Approximately 3 Linear Feet of 3 - 4-Inch PVC Conduits from Pole 142/6 on Water Street to the Property Line in 51-57 Water Street
 - C. Public Hearing and Vote on a Petition from Eversource for the Consideration of a Grant of Location in Arsenal Street for the Installation and Maintenance of Approximately 30 Linear Feet of Conduit from Manhole MH 15899 to a New Conduit in Coolidge Avenue and the Installation and Maintenance of Approximately 1,226 Linear Feet of Conduit and Three (3) New Manholes, MH31566, MH31567, and MH31568, Before Entering the Property at 99 Coolidge Avenue. This Work Is Necessary to Provide an Underground Main-Tie-Main Configuration Electric Service to 99 Coolidge Avenue Due to Demand Constraints. Upon Completion of the Department of Public Works' Review, the Recommendations and Conditions Shall Be Required Should the Grant of Location Be Approved for This Application by the City Council
 - D. Public Hearing and Vote on a Petition from Eversource for Consideration of a Grant of Location for Grove Street by Installing Westerly from Pole 63/26 and Approximately 180 Feet Northwest of Coolidge Avenue, Install Approximately 48+/- Feet Conduit Under Grove Street to a Property Located at 150 Coolidge Avenue. This Work Is Necessary to Provide an Electrical Service Upgrade to 150 Coolidge Avenue. Upon Completion of the Department of Public Works Review, Said Work Is Subject to the Recommendations and Conditions by the City Council Should the Grant of Location Be Approved for This Application.
 - E. Public Hearing and Vote on a Petition from Zayo Group for Consideration of a Grant of Location to Install in Nichols Avenue and Maintain Approximately 10 Linear Feet of One (1) 4-Inch Communication Conduit from Utility Pole #100/1 to an Existing Zayo Conduit Capped with the Roadway and to Install and Maintain Overhead Wire from Pole #100/2 and along Nichols Avenue to Pole #100/10. This Work Is Necessary to Provide a Communication Service to the Existing Data Center at 485 Arsenal Way. Upon Completion of the Department of Public Works Review, Said

Work is Subject to the Recommendations and Conditions by the City Council
Should the Grant of Location Be Approved for This Application

- F. Public Hearing and Vote on a Petition from Zayo Group for Consideration of a Grant of Location in Melendy Avenue to Install and Maintain Approximately 75 Linear Feet of one (1) 4-Inch Communication Conduit from Utility Pole #11 to an Existing Manhole on Private Property Belonging to 486 Arsenal Way and to Install and Maintain Overhead wire from Pole #100/10 on Nichols Avenue Across Nichols Avenue and Melendy Avenue to Pole #95/9 Along Melendy Avenue to Riser Pole #95/11. This Work Is Necessary to Provide a Communications Connection to the Data Center at 486 Arsenal Way. Upon Completion of the Department of Public Works Review, Said Work Is Subject to the Recommendations and Conditions by the City Council Should the Grant of Location Be Approved for This Application.

9. MOTIONS, ORDINANCES, ORDER, AND RESOLUTIONS

- A. First Reading on a Proposed Order Authorizing That the Sum of \$2,000,000 Is Appropriated to Pay Costs of Constructing, Reconstructing, Paving, Repairing or Otherwise Improving Streets and Sidewalks, Including Improving Underground Ducts and Conduits and Paying All Other Costs Incidental and Related to Such Street and Sidewalk Work; and That to Meet This Appropriation, the Treasurer, With the Approval of the City Manager, Is Authorized to Borrow Said Amount Under and Pursuant to M.G.L. c.44, §7(1), or Pursuant to Any Other Enabling Authority, and to Issue Bonds or Notes of the City Therefor.
- B. Resolution Authorizing a Transfer of Funds in the Amount of \$100,000 from the Fiscal Year 2023 City Council Reserve Fund to the Fiscal Year 2023 Acquisition of Land/Property Account.

10. REPORTS OF COMMITTEES

- A. Committee on Parks and Recreation Report Regarding the Reappointment of Jonathan Bockian to the Community Preservation Committee - Anthony Palomba, Chair
ACTION ITEM:
That the City Council Reappoint Jonathan Bockian to the Community Preservation Committee for a Term to Expire on February 1, 2025

11. NEW BUSINESS

12. COMMUNICATIONS FROM THE CITY MANAGER

13. REQUESTS FOR INFORMATION/REVIEW OF LIST OF PENDING MATTERS

14. ANNOUNCEMENTS

15. PUBLIC FORUM

16. RECESS OR ADJOURNMENT



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – NATIONAL GRID (WO # 1430328)

Grant of Location: IRVING STREET AND A PRIVATE WAY
June 29, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, July 12, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from National Grid for the consideration of a Grant of Location in Irving Street and a Private Way:

- Irving Street – Relay and maintain approximately 480 linear feet of 4 -inch plastic gas main from Riverside Street to End of Main (EOM) and tie into the existing 4-inch plastic gas main in Fifield Street
- Private Way – Reay 490 linear feet of 2-inch plastic gas main serving 114-146 Charles River Road from Irving Street to EOM

This work is necessary to provide gas service to residences living on Irving Street and a Private Way.

Upon completion of our review, the following recommendations and conditions are being submitted for consideration by the City Council and will be required should the Grant of Location be approved for this application.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be

properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**

4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Mary Mulroney at 617-894-3890 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: June 15, 2022
APPLICANT: National Grid
WORK ORDER: WO# 1430328
LOCATION: Irving Street and a Private Way

Watertown Department of Public Works has reviewed the attached petition by National Grid for consideration of a Grant of Location for the following installations:

- **Irving Street – Relay and maintain approximately 480 linear feet of 4-inch plastic gas main from Riverside Street to End of Main (EOM) and tie into the existing 4-inch plastic gas main in Fifield Street.**
- **Private Way – Relay 490 linear feet of 2-inch plastic gas main serving 114-146 Charles River Road from Irving Street to EOM.**

This work is necessary to provide gas service to residences living on Irving Street and a Private Way. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.

9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



Photo 1: View of Riverside Street and Irving Street where the gas main is proposed to be relayed along Irving Street.



Photo 2: View of Irving Street where the road has recent been repaved.



Photo 3: View of Irving Street facing Riverside Street where the road has recently been repaved.



Photo 4: View of Irving Street facing Riverside Street closer to Charles River Road.



Photo 5: View of Irving Street facing Riverside Street where the road is in need of repair. The limits of repair of Irving Street can be seen in the distance.



Photo 6: View of Irving Street facing Riverside Street closer to the Private Way where the proposed gas main will be relayed to provide service to the residences along the Private Way.



Photo 7: View of Private Way facing Irving Street.



Photo 8: View of Private Way and catch basin closer to Irving Street.



Photo 9: View of Private Way where alligator cracking was observed facing Irving Street.

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

City of Watertown / Town Council:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **City of Watertown** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

To relay approximately 480 feet of 4-inch Cast Iron main with 4-inch Plastic main in Irving Street, from Riverside Street to EOM. Tie into existing 4-inch Plastic main in Fifield Street. Relay 490 feet of 4-inch Bare Steel main with 2-inch Plastic main in Pond Street (replacing Off Irving Street) serving #114 - #146 Charles River Road, from Irving Street to EOM.

Date: January 27, 2022

By: _____

Mary Mulroney
Permit Representative

City of Watertown / City Council:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **City of Watertown** substantially as described in the petition dated January 27, 2022 attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **City of Watertown** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

I hereby certify that the foregoing order was duly adopted by the _____ of the Town of _____, MA on the _____ day of _____, 20____.

By: _____

Title

WO #1430328

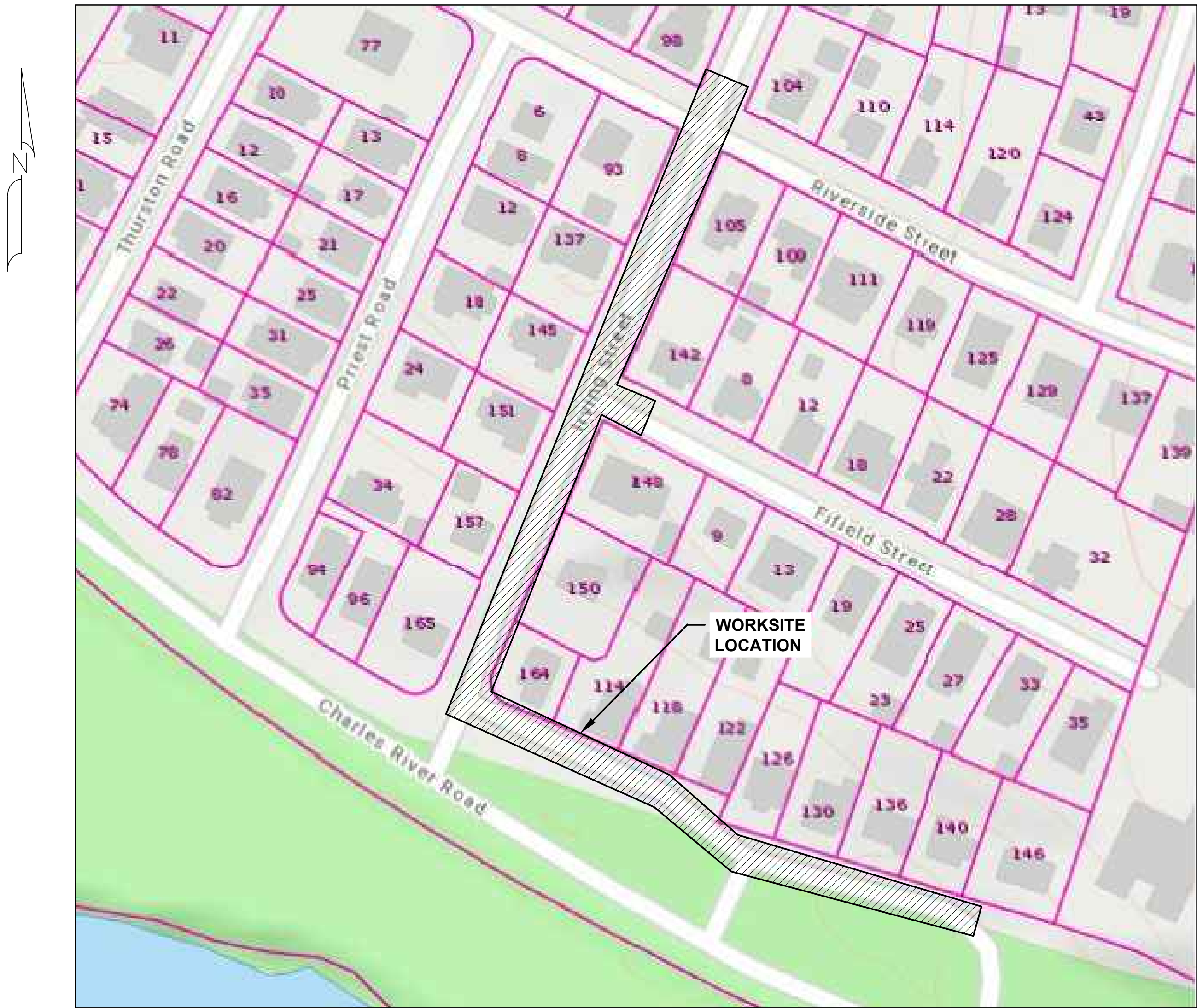
**RETURN ORIGINAL TO THE PERMIT SECTION
NATIONAL GRID**

40 SYLVAN RD, WALTHAM, MA 02451

RETAIN DUPLICATE FOR YOUR RECORDS

FORM # 1444, Rev. 90

NATIONAL GRID
APPROX. 490' OF 2"/480' OF 4" MDPE (LP TO 22 PSIG) GAS MAIN RELAY
IRVING ST, POND ST, WATERTOWN, MA
W.O. NO.: 1430328



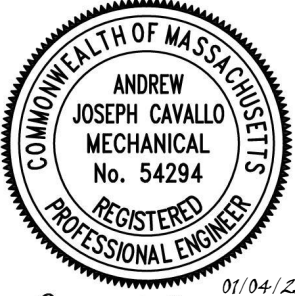
LOCUS
SCALE: NTS

INDEX OF SHEETS		
PAGE	NAME	TITLE
1	WAT-1430328-01	COVER SHEET
2	WAT-1430328-02	CONSTRUCTION NOTES
3	WAT-1430328-03	BILL OF MATERIALS
4	WAT-1430328-04	PROPOSED INSTALLATION PLAN OVERVIEW
5	WAT-1430328-05	PROPOSED INSTALLATION PLAN SHEET 1 OF 1
6	WAT-1430328-06	PROPOSED LOCATION DETAIL SHEET 1 OF 1
7	WAT-1430328-07	MISCELLANEOUS DETAIL 1 OF 3
8	WAT-1430328-08	MISCELLANEOUS DETAIL 2 OF 3
9	WAT-1430328-09	MISCELLANEOUS DETAIL 3 OF 3





Architecture
Engineering
Environmental
Land Surveying
Companies



ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
01/04/2022
SIGN & DATE

0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
2" AND 4" MDPE (LP TO 22 PSIG)
IRVING ST
WATERTOWN, MA

COVER SHEET

DWG. SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

PAGE 1 OF 9

DRAWING NO.	SHEET NO.
WAT-1430328-01	G-001

CONSTRUCTION NOTES

SCOPE OF WORK

NATIONAL GRID WORK ORDER NUMBER 1430328:
IRVING ST, POND ST, WATERTOWN, MA

AS PART OF THE FY23 GPLNG PROGRAM, STRATEGIC ASSET AND SYSTEM PLANNING RECOMMENDS THE FOLLOWING:

RELAY 480 FEET OF 4 INCH, LP CAST IRON MAIN WITH 4 INCH, 22 PSIG PLASTIC MAIN IN IRVING ST FROM RIVERSIDE ST TO EOM. TIE INTO EXISTING 4 INCH, 22 PSIG PLASTIC MAIN IN FIFIELD ST.

RELAY 490 FEET OF 4 INCH, LP BARE STEEL MAIN WITH 2 INCH, 22 PSIG PLASTIC MAIN IN POND ST (REPLACING OFF IRVING ST), SERVING #114-146 CHARLES RIVER RD, FROM IRVING ST TO EOM.

COORDINATE WITH PW W.O.#1424687

2 MAIN CONNECTIONS / CUT OFFS.

ALL ACTIVE SERVICES TO BE DISCONNECTED FROM THE MAIN TO BE RETIRED AND REPLACED.

NOTE: THIS PROJECT INVOLVES REPLACING LP GAS MAIN WITH 22 PSIG GAS MAIN. ENSURE THAT ALL SERVICES ARE FITTED APPROPRIATELY WITH SERVICE REGULATORS PRIOR TO TRANSFERRING OVER FROM THE LP TO 22 PSIG SYSTEM.

THIS WORK ORDER AND W.O.#1424687 TO BE COMPLETED CONCURRENTLY. SEE DESIGN W.O.#1424687 FOR OTHER CUT AND CAPS REQUIRED FOR FULL ABANDONMENT.

GENERAL

1 NO FIELD CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT APPROVAL FROM THE ASSIGNED NATIONAL GRID ENGINEER:
ENGINEER: BRENDAN GALLAGHER
PHONE: (774) 813-7488
EMAIL: BRENDAN.GALLAGHER1@NATIONALGRID.COM

2 NEW MAINS SHOULD BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.

A 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL.
B STATE HIGHWAY MINIMUM COVER: 36 INCHES
C DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
D SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
E CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

3 SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.

A MINIMUM IN PUBLIC ROW: 18 INCHES
B MINIMUM IN PRIVATE PROPERTY: 12 INCHES
C SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
D CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

4 REFER TO CNST-6030 FOR SHALLOW MAINS. PRIOR TO INSTALLING GAS MAINS WITH LESS THAN 24 INCHES OF COVER, COMPLETE REQUEST FOR WAIVER FORM AND CONTACT GAS PIPELINE SAFETY & COMPLIANCE FOR APPROVAL:

A JENNIFER GILLIS - (617) 594-5157
(MA EXCLUDING CAPE AND WEBSTER)

B LIEN GAUTHIER - (617) 438-9069
(MA EXCLUDING CAPE AND WEBSTER)

C IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

5 ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.

A DISTRIBUTION MINIMUM CLEARANCE: 6 INCHES
B APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.

6 THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.

A ELBOWS SHOWN ARE ASSUMED TO BE 45 DEGREES IN MOST APPLICATIONS. 90 DEGREE ELBOWS MAY BE NEEDED BASED ON FIELD CONDITIONS.

7 VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.

A VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.

8 ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.

9 TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:

A REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.

B CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).

C MATERIAL/SIZE CHANGE AT NEW LOCATION.

10 NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.

11 WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN: AS LONG AS THE CONNECTION BRANCH SIZE SHOWN IN THE DRAWINGS CAN BE ACHIEVED, THE FOLLOWING CONNECTION TYPES ARE ACCEPTED AND INTERCHANGEABLE:

A INLINE TEE
B PLASTIC HIGH VOLUME TAPPING TEE (2" BRANCH SIZE OR LESS)
C PLASTIC BRANCH SADDLE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES)
D STEEL THREE-WAY TEE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES)

12 THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.

13 ALL CUSTOMER SERVICES WITHIN THE SCOPE OF MAIN TO BE ABANDONED SHALL BE TRANSFERRED OR RELAYED BY THE CONTRACTOR TO THE NEW MAIN PRIOR TO ABANDONMENT. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER PRESSURE MAIN, ALL SERVICES SHALL BE RELAYED OR INSERTED.

SEQUENCE OF CONSTRUCTION

1 CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.

2 CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.

3 INSTALL MAIN AS INDICATED IN SCOPE OF WORK

4 PRESSURE TEST (SEE PRESSURE TESTING SECTION)

5 PURGE NEW MAIN INTO SERVICE WITH W.O.#1424687

6 REPLACE SERVICES AND TIE IN TO NEW MAIN

7 MAKE CONNECTION AT LOCATION 1

8 COMPLETE DISCONNECT AT LOCATION 2

9 SEE DESIGN W.O.#1424687 FOR OTHER CUT AND CAPS REQUIRED FOR FULL ABANDONMENT

10 PURGE OLD MAIN OUT OF SERVICE AND ABANDON

11 PERFORM RESTORATION

DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:

A ENG02001 : DESIGN OF GAS SERVICES
B ENG04001: DESIGN OF DISTRIBUTION MAINS
C ENG04010: DESIGN REQUIREMENTS FOR INSTALLATION OF CASINGS

2 PROPOSED PIPING:

A DESIGN CLASS LOCATION – 4
B NOMINAL SIZE – 2, 4 INCH
C MATERIAL – MDPE
D SYSTEM MAOP – 22 PSIG

3 PIPE SIZE DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

CODES & STANDARDS

1 WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITIONAL TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.

2 ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.

3 FEDERAL & STATE

A TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
B 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
100.00 - 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
C AMERICAN SOCIETY OF MECHANICAL ENGINEERS
B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

4 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:

A CNST01003: BACKFILL AND RESTORATION
B CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
C CNST01006: COMMERCIALY AVAILABLE SHORING SYSTEMS
D CNST02014: ENCAPSULATING CAST IRON JOINTS
E CNST03001: SQUEEZE-OFF OPERATIONS
F CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
G CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
a. CNST03006: PURGING OPERATIONS – DIRECT DISPLACEMENT
b. CNST03007: PURGING OPERATIONS – COMPLETE INERT FILL
c. CNST03008: PURGING OPERATIONS – SLUG METHOD
H CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
I CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
J CNST04007: FIELD COLD BENDING OF LINE PIPE
K CNST04008: INSTALLING PLASTIC MAINS
L CNST04011: ABANDONMENT OF MAINS
M CNST04012: GROUTING ABANDONED PIPELINES
N CNST04030: RAISING MAIN AND SERVICE GATE BOXES
O CNST05001: JOINING OF PLASTIC PIPE
P CNST05011: INSTALLATION OF DRESSER 700 COUPLINGS
Q CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
R DAM01011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
S DAM01015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
T DAM01016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
U GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
V GEN01100: OPERATOR QUALIFICATION PLAN
W GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
X GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
Y MAIN5030: INSTALLATION OF POLYETHYLENE PIPE
Z MECH5010: JOINTS OTHER THAN WELDED
AA 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES

5 SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:

A CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
B CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
C CNST03011: NO-INTERRUPT SERVICE TRANSFER
D CNST06002: INSTALLING DISTRIBUTION SERVICES
E CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES
F CNST06009: METER/SERVICE RELOCATION GUIDELINE
G CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
H CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE
I CS-SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS
J CS-SERV002: TYPICAL 1" SERVICE OUTSIDE SETS
K CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
L CS-SERV004: TYPICAL 2" SERVICE
M CS-SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
N CS-SERV009: TYPICAL 1/2" SERVICE INSIDE SETS
O CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS
P HTP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS
Q SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
R SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
S VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION

6 SEE TIE IN DETAILS FOR APPLICABLE MAIN CONNECTION REFERENCES.

7 SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.

A FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING

1 PRESSURE TEST MAIN IN ACCORDANCE WITH:

A CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
B TEST PRESSURE (MINIMUM): 90 PSIG
C TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1.
D TEST MEDIUM: AIR AND/OR NITROGEN

2 PRESSURE TEST SERVICES IN ACCORDANCE WITH:

A CNST06008: PRESSURE TESTING SERVICE LINES

CATHODIC PROTECTION

1 IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
BUTCH VINCENT 617-438-5192 (MA)

2 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.

3 NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:

A COR01100: CORROSION DESIGN CRITERIA
B COR02001: APPLICATION OF COATING SYSTEMS
C COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
D COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
E COR03001: TESTING OF PIPE COATING (JEEP TESTING)
F COR04001: INSTALLATION OF MAGNESIUM ANODES
G COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
H COR04004: INSTALLATION OF WIRE CONNECTIONS
I COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
J 030031-CS: FACILITY COATING GUIDE

4 CORROSION DESIGN: INSTALL A 1-WIRE TEST STATION WITH 1-17# ANODE TO THE INSULATED ACTIVE STEEL MECHANICAL END CAP. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.

ENVIRONMENTAL

1 WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.

2 ENVIRONMENTAL ENGINEERING CONTACT:
ANDREW L. SHELBY
PHONE: (781) 907-1867
EMAIL: ANDREW.SHELBY@NATIONALGRID.COM

3 CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.

4 WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HAULTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.

5 NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.

6 NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:

A SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING
B SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
C SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
D EG303-NE: BEST MANAGEMENT PRACTICES
E EG140: USED GAS PIPE MANAGEMENT

7 ENVIRONMENTAL REQUIREMENTS: N/A

SAFETY

1 WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.

2 REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.

3 A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.

4 CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.

5 NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:

A A- ADMINISTRATIVE; B- INSPECTIONS; C- WALKING WORKING SURFACES; D- MEANS OF EGRESS; E- MATERIAL HANDLING AND STORAGE; F- TOXIC AND HAZARDOUS SUBSTANCES; G- HAZARDOUS MATERIALS; H- PERSONAL PROTECTIVE EQUIPMENT; I- GENERAL ENVIRONMENTAL CONTROLS; J- ACCIDENT INVESTIGATION; K- MACHINERY AND GUARDING; L- WELDING/CUTTING/BRAZING; M- EXCAVATIONS; N- CONTRACTORS; FIRE PROTECTION; Q- FLEET AND ROADWAY SAFETY

6 GAS WORK METHODS SAFETY PROCEDURES INCLUDE:

A SHE01001: GENERAL SAFETY REQUIREMENTS
B SHE01002: SUPPLIED-AIR RESPIRATORS
C SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
D SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
E SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
F SHE01006: ENTERING GAS UTILITY VAULTS
G SHE01008: USING AND MAINTAINING THE GAS-EXPLORER
H SHE01009: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
I SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD

OTHER PERMITTING REQUIREMENTS

1 STREET OPENING PERMIT
2 WATERTOWN GRANT OF LOCATION
3 MWRA WATER PERMIT

REFERENCE DRAWINGS

1 UNDERGROUND UTILITIES ARE NOT SHOWN, NATIONAL GRID FACILITIES ARE SHOWN BASED ON AVAILABLE MAPS AND RECORDS.

DESIGN CONSULTANT

1 BL COMPANIES
ANDREW J. CAVALLO, P.E.
PHONE: (781) 619-9515
EMAIL: ACavallo@BLCOMPANIES.COM

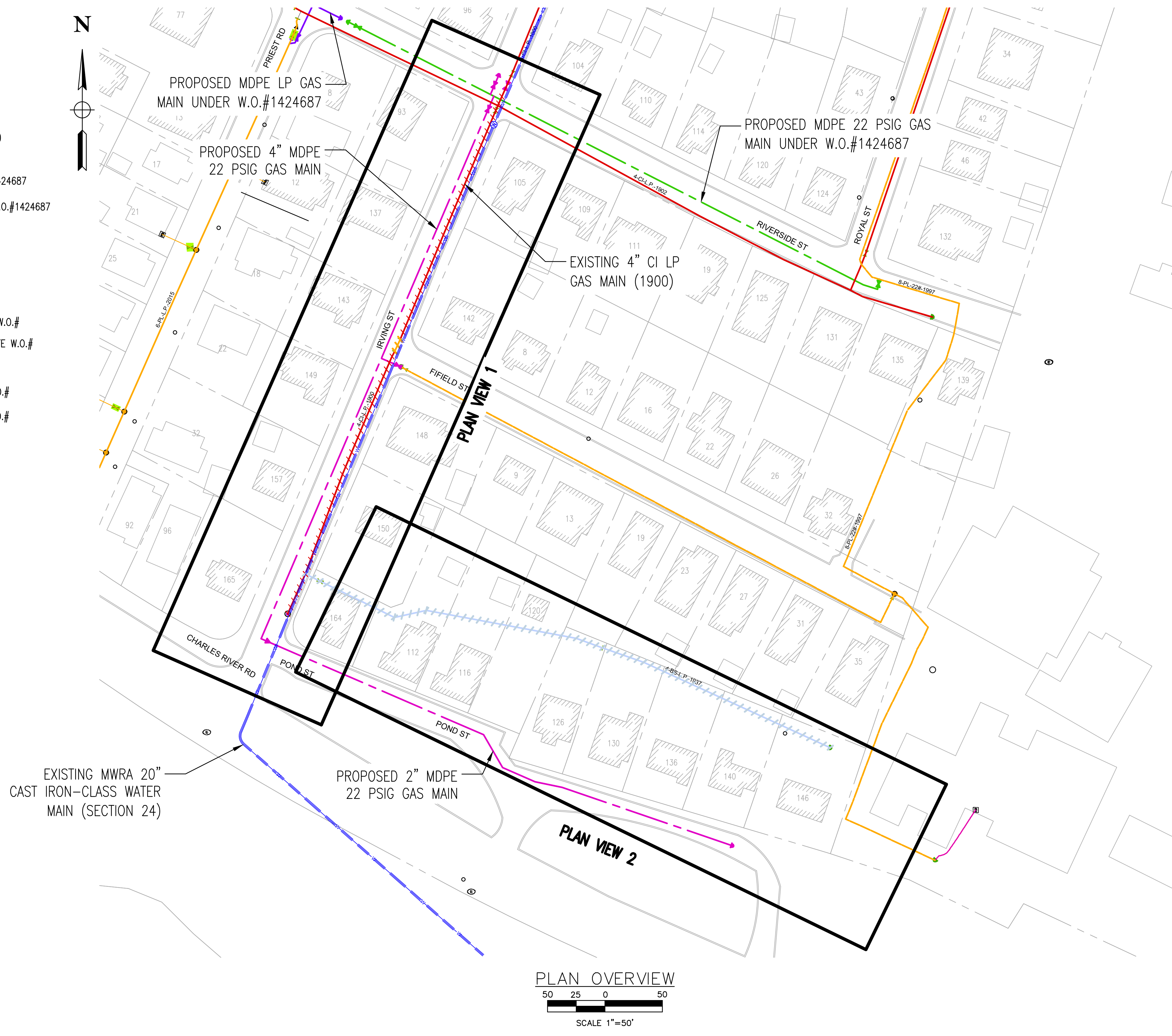
 Architecture Engineering Environmental Land Surveying								BOSTON GAS COMPANY d/b/a nationalgrid 40 SYLVAN ROAD WALTHAM, MA 02451 IFC	PROPOSED GAS MAIN INSTALLATION 2" AND 4" MDPE (LP TO 22 PSIG) IRVING ST WATERTOWN, MA CONSTRUCTION NOTES						PAGE 2 OF 9			
															DRAWING NO.		SHEET NO.	
															WAT-1430328-02		G-002	
0		ISSUED FOR CONSTRUCTION		01/04/2022		LA		TA		AC		DWG. SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:	
NO.		DESCRIPTION		DATE		DR.BY		CK.BY		APP.BY		22"x34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328	

BILL OF MATERIALS						
ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1	480	FT	PIPE, PLASTIC, MDPE, SDR 11.5	4	120026-MS	9340857
2	520	FT	PIPE, PLASTIC, MDPE, SDR 11 (COILS)	2	120026-MS	9340876
3	1	EA	ELBOW, PLASTIC, 90 DEGREE, MDPE	4	CS-FIT011	9341397
4	1	EA	TEE, PLASTIC, FULL, MDPE	4	CS-FIT012	9342523
5	1	EA	REDUCER, PLASTIC, MDPE	4 x 2	CS-FIT013	9384553
6	2	EA	COUPLING, PLASTIC ELECTROFUSION	4	CS-FIT015	9314593
7	3	EA	VALVE, BALL, MDPE, FULL PORT	4	VALV6020	9341709
8	3	EA	VALVE, BOX ASSEMBLY (FOR FULL PORT 4" VALVE)	4	VALV6020	9339892
9	1	EA	CAP, MDPE, BUTT FUSION	4	CS-FIT010	9339534
10	1	EA	CAP, PLASTIC, ELECTROFUSION	4	CS-FIT015	9393582
11	2	EA	END CAP, MECHANICAL, FOR R.S. CAST IRON, RESTRAINING	4	FITS6024	9315170
12	2	EA	END CAP, MECHANICAL, FOR O.S. CAST IRON, RESTRAINING	4	FITS6024	9391275
13	1	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540
14	1	EA	CAP, PLASTIC, ELECTROFUSION	2	CS-FIT015	9393634
GENERAL						
G1	A/R	FT	TRACER WIRE		CNST6061	9315005
G2	A/R	ROLL	YELLOW CAUTION TAPE - GAS MAIN - 6" WIDE	6	CNST6060	9341904
PRESSURE TESTING (TEMPORARY)						
P1	A/R	EA	CAP, MDPE, BUTT FUSION	4	CS-FIT010	9339534
P2	A/R	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540
CATHODIC PROTECTION						
C1	1	EA	CP TEST BOX W/ COVER	N/A	030026-CS	(SEE STD)
C2	1	EA	17# ANODE	N/A	030024-CS	9311183
C3	A/R	FT	WIRE NO. 8	N/A	030026-CS	9307539
*ACTUAL LENGTH/QUANTITY OF PIPE AND FITTINGS MAY VARY DUE TO FIELD CONDITIONS. ADDITIONAL MATERIALS MAY NOT BE REFERENCED ABOVE THAT ARE INCLUDED IN THE BOM OF NATIONAL GRID CONSTRUCTIONS STANDARDS REFERENCED IN THIS DESIGN PACKAGE.						

[illegible]

DRAWING LEGEND

EXISTING BS LP GAS MAIN

EXISTING CI LP GAS MAIN

- NOTES:
- 1) THIS WORK ORDER AND W.O.#1424687 TO BE COMPLETED CONCURRENTLY. SEE DESIGN FOR W.O.#1424687 FOR OTHER CUT AND CAPS REQUIRED FOR FULL ABANDONMENT.
 - 2) GRANT OF LOCATION REQUIRED FOR NEW GAS MAIN INSTALL IN WATERTOWN.
 - 3) MWRA PERMIT REQUIRED FOR WORK WITHIN IRVING ST.
 - 4) NOTE: THIS PROJECT INVOLVES REPLACING LP GAS MAIN WITH 22 PSIG GAS MAIN. ENSURE THAT ALL SERVICES ARE FITTED APPROPRIATELY WITH SERVICE REGULATORS PRIOR TO TRANSFERRING OVER FROM THE LP TO 22 PSIG SYSTEM.

Architecture
Engineering
Environmental
Land Surveying

Companies

ANDREW JOSEPH CAVALLA
MECHANICAL
No. 54294
REGISTERED
PROFESSIONAL ENGINEER

01/04/22
SIGN & DATE

0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

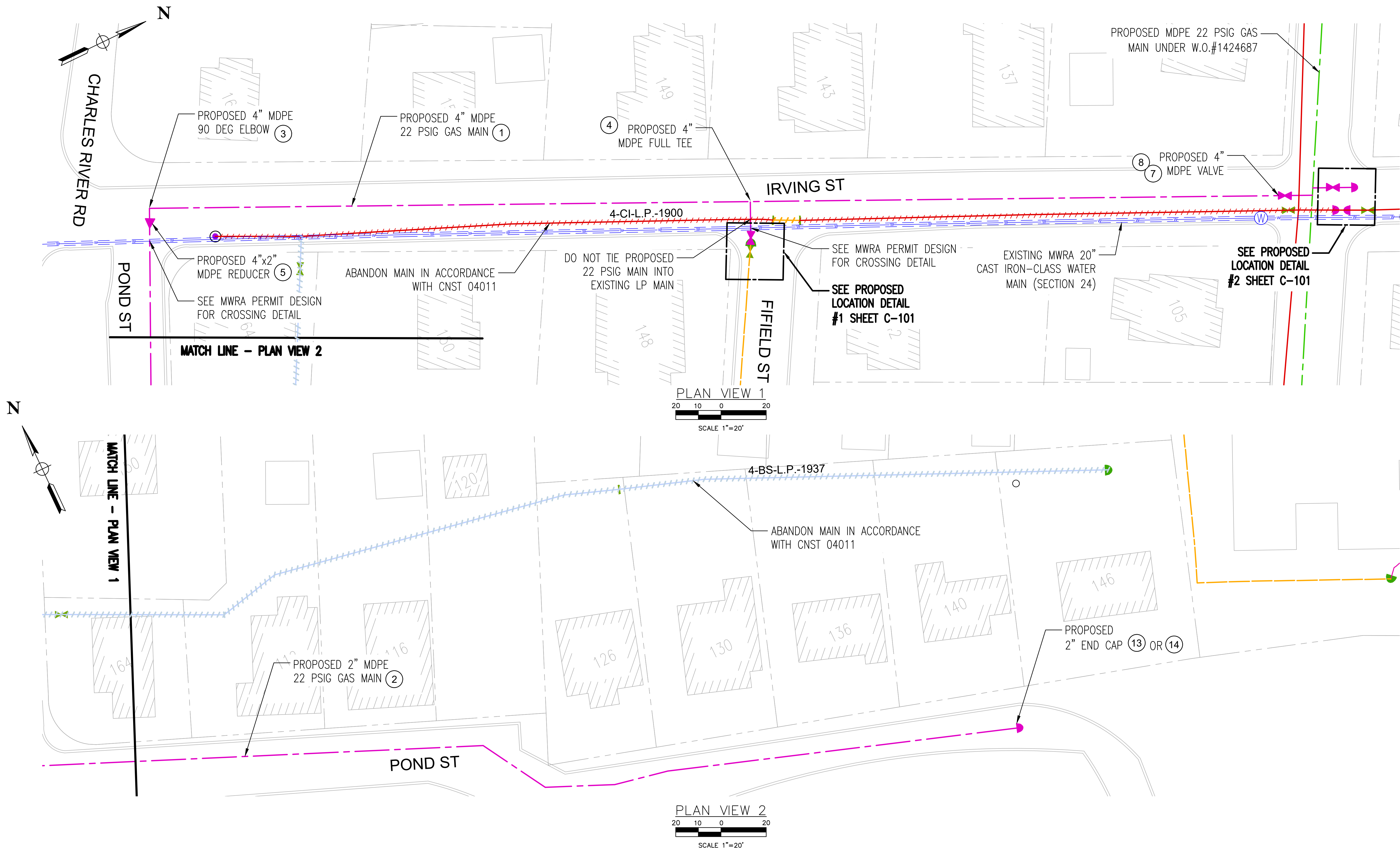
PROPOSED GAS MAIN INSTALLATION
2" AND 4" MDPE (LP TO 22 PSIG)
IRVING ST
WATERTOWN, MA

PROPOSED INSTALLATION PLAN OVERVIEW

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	L. AFFRONTI	A. CAVALLA	01/04/2022	DISTRIBUTION	1430328

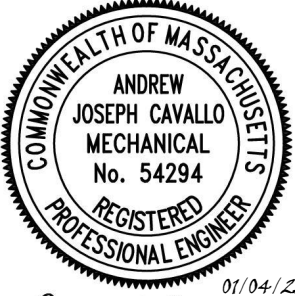
PAGE 4 OF 9

DRAWING NO.	SHEET NO.
WAT-1430328-04	C-001





Architecture
Engineering
Environmental
Land Surveying
Companies



ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
01/04/22
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

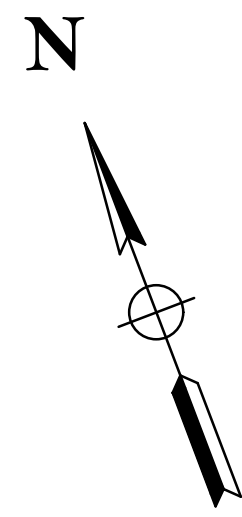
PROPOSED GAS MAIN INSTALLATION
2" AND 4" MDPE (LP TO 22 PSIG)
IRVING ST
WATERTOWN, MA

PROPOSED INSTALLATION PLAN SHEET 1 OF 1

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"x34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

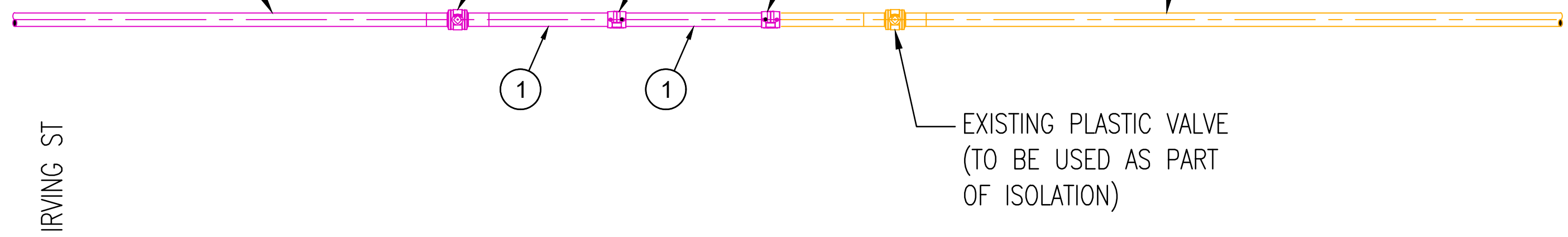
PAGE 5 OF 9

DRAWING NO.	SHEET NO.
WAT-1430328-05	C-002

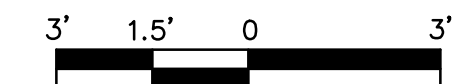


PROPOSED 4" MDPE
22 PSIG GAS MAIN

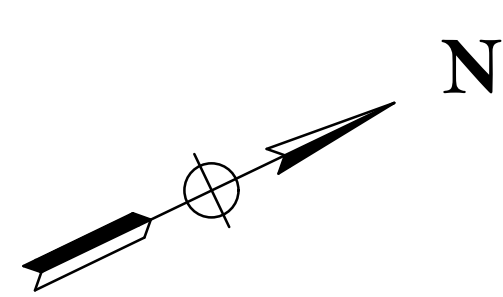
1



PROPOSED LOCATION #1 AT IRVING ST @ FIFIELD ST



SCALE: 1"=3'



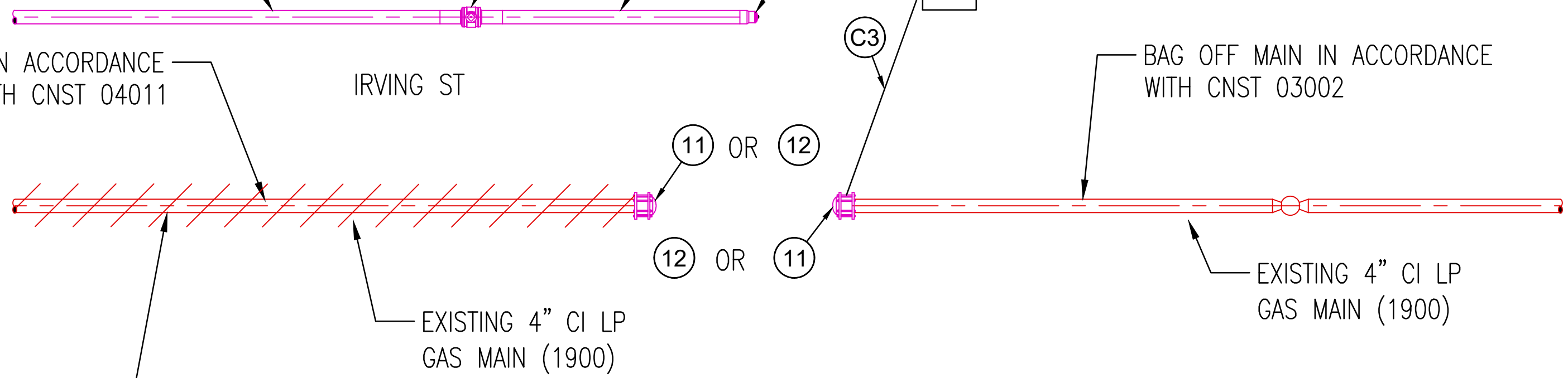
PROPOSED 4" MDPE
22 PSIG GAS MAIN

1

ABANDON MAIN IN ACCORDANCE
WITH CNST 04011

RIVERSIDE ST

BAG OFF MAIN IN ACCORDANCE
WITH CNST 03002



PROPOSED LOCATION #2 AT IRVING ST @ RIVERSIDE ST

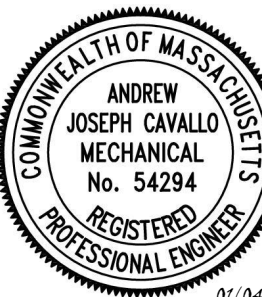


SCALE: 1"=3'

CORROSION REQUIREMENTS: INSTALL A 1-WIRE TEST
STATION WITH 1-17# ANODE TO BE INSULATED ACTIVE
STEEL MECHANICAL END CAP. INSTALL THE 9X9 TEST
STATION IN AN ACCESSIBLE LOCATION.



Architecture
Engineering
Environmental
Land Surveying



01/04/2022
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

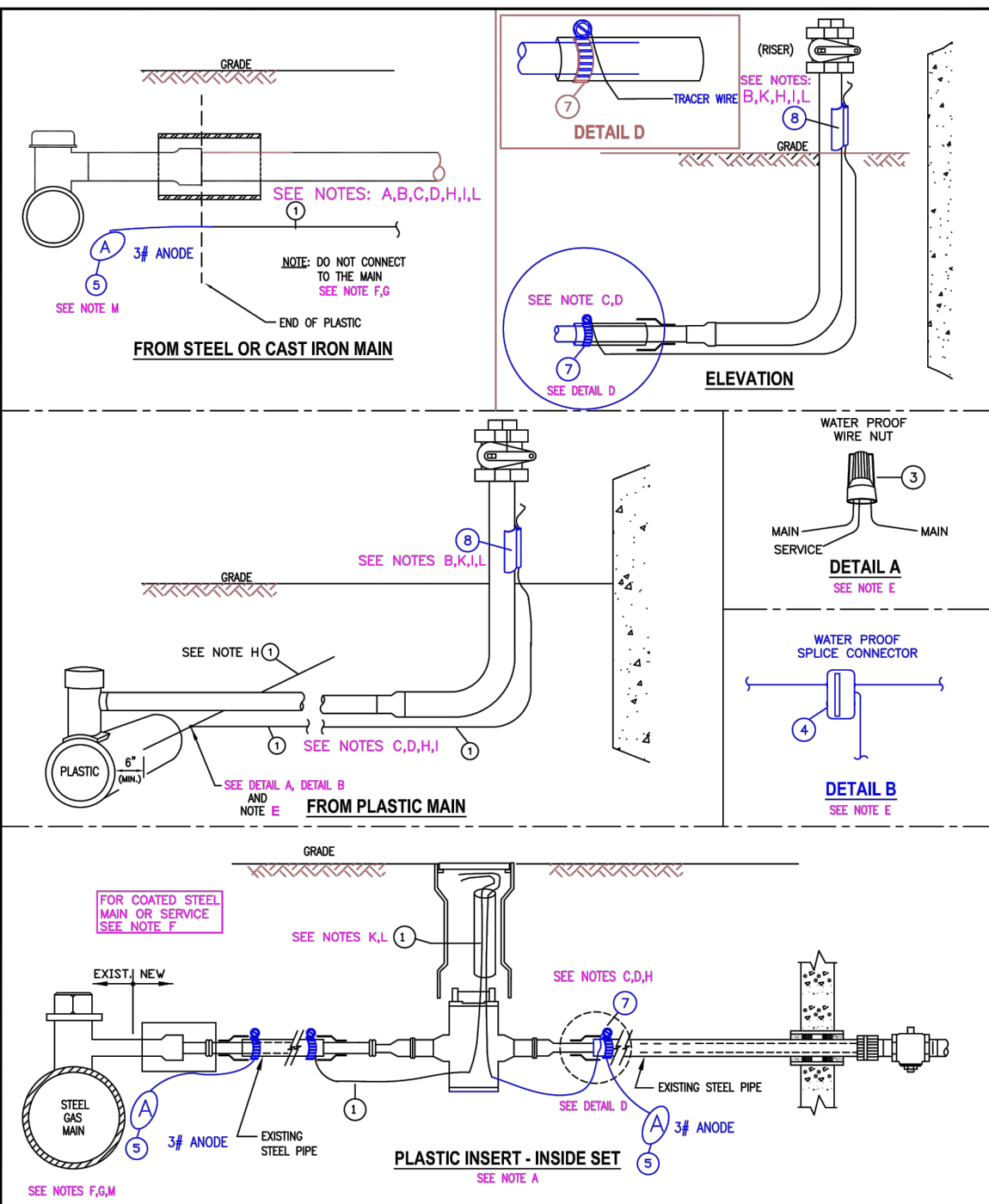
PROPOSED GAS MAIN INSTALLATION
2" AND 4" MDPE (LP TO 22 PSIG)
IRVING ST
WATERTOWN, MA

PROPOSED LOCATION DETAIL SHEET 1 OF 1

DWG. SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

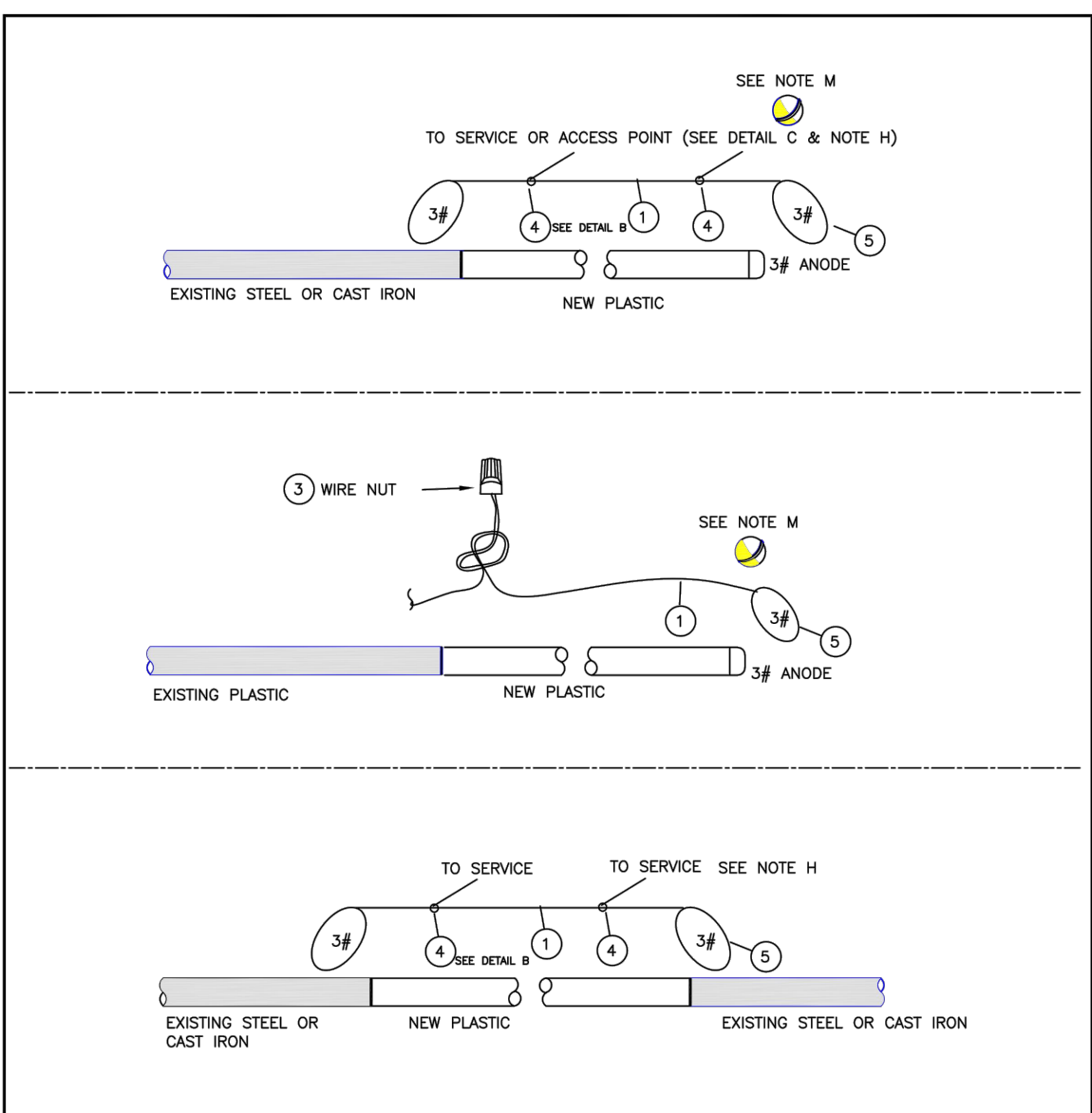
PAGE 6 OF 9

DRAWING NO.	SHEET NO.
WAT-1430328-06	C-101



nationalgrid LI-MA-RI-UNY		TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES	
REVISIONS: UPDATED ITEM ID'S REVISED NOTES	DATE: 10/21/2024 DESIGN: GUGLIOTTA / MCGLOUGHIN DRAWING: GUGLIOTTA / DIMAGIO	EFFECTIVE DATE: 06/25/2020 STD. DWG. NO. CNST-6061	

UNCONTROLLED WHEN PRINTED 1 OF 4 © National Grid Gas plc 2020– All Rights Reserved



nationalgrid ALL REGIONS		2"-12" PE VALVE TYPICAL INSTALLATION	
REVISIONS: UPDATED ITEM ID'S	DATE: 07/01/2020 DESIGN: A.S. / MAM DRAWING: P. DIMAGIO	EFFECTIVE DATE: 06/06/2020 STD. DWG. NO. VALV-6020	

UNCONTROLLED WHEN PRINTED 1 OF 2 © National Grid Gas plc 2020– All Rights Reserved

NO.	ITEM	SAP ITEM ID
8	TRACER WIRE SNAP, 2" (represents steel size)	9386134
8	TRACER WIRE SNAP, 1 1/2" (represents steel size)	9386156
8	TRACER WIRE SNAP, 1" (represents steel size)	9386150
8	TRACER WIRE SNAP, 3/4" (represents steel size)	9385568
7	CLAMP, STAINLESS	9331708
6	VALVE BOX, ROADWAY	9339890
5	ANODE, 3 LB MAGNESIUM	9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF	9308036
3	WIRE NUT, PLASTIC, WATERPROOF	9331644
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314197
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005

UNCONTROLLED WHEN PRINTED Effective Date 06/06/2020 2 OF 2 © National Grid Gas plc 2020 – All Rights Reserved VALV-6020

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel, see [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR04003\]](#) or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#).

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with [Installing Wire Connections \[COR04004\]](#).

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR04003\]](#) or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA- Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

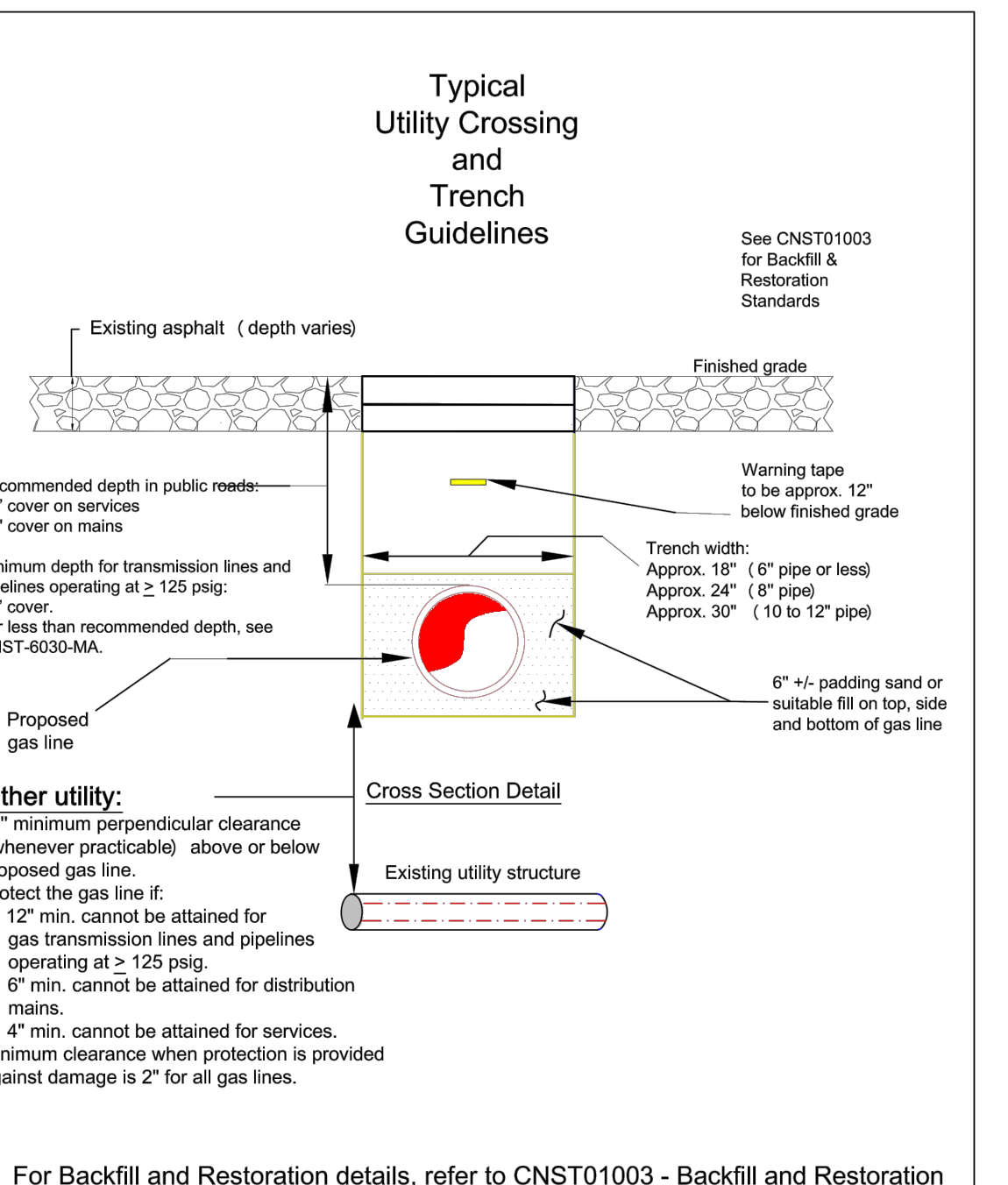
L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

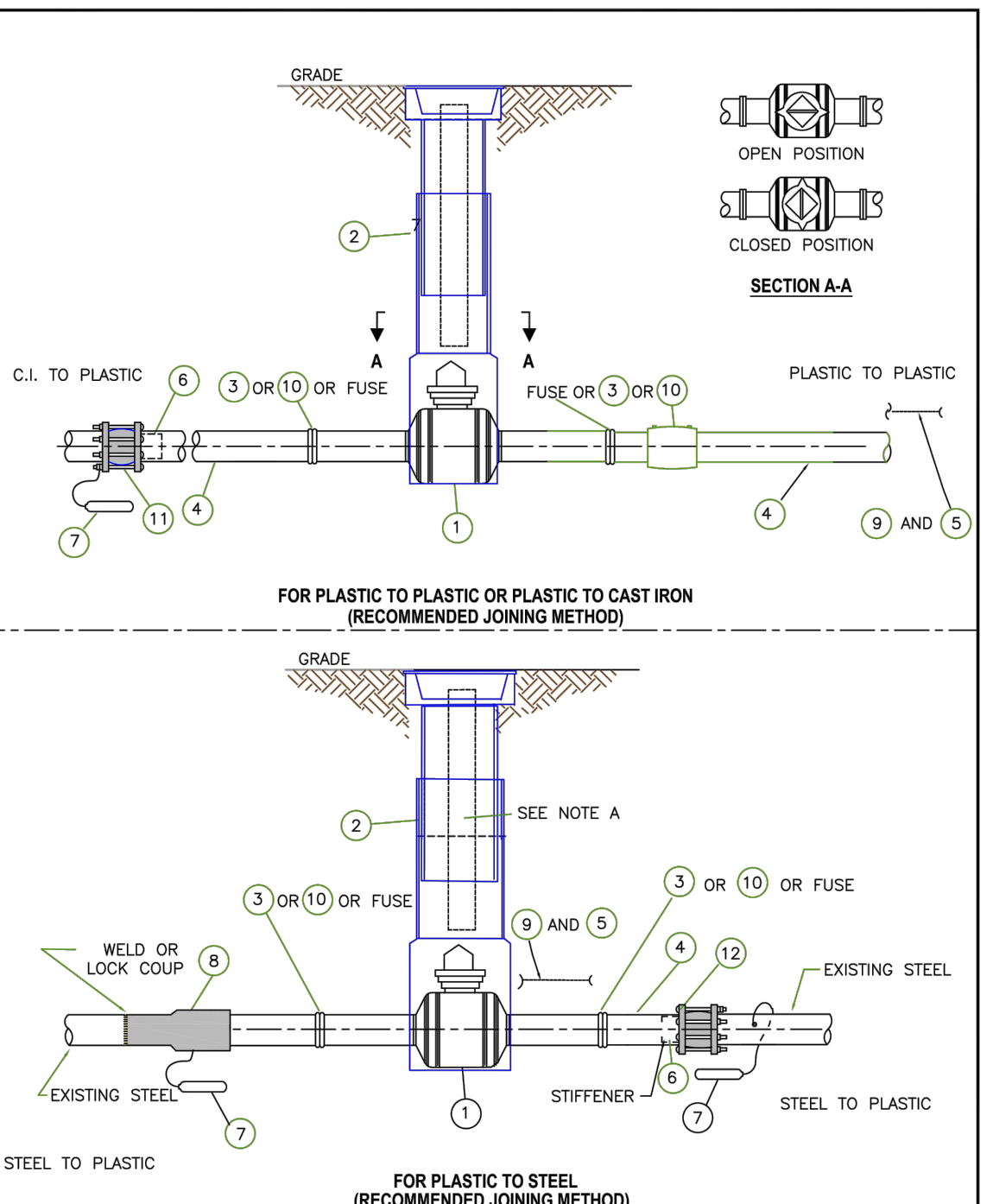
NYC ONLY: refer to [Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services \[CNST6060-NYC\]](#) for installation of electronic marker ball in place of tracer wire.

UNCONTROLLED WHEN PRINTED Effective Date 06/25/2020 4 OF 4 © National Grid Gas plc 2020 – All Rights Reserved CNST-6061



nationalgrid MASS.		TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES	
Key Changes: REV 0 NEW STANDARD FOR MASS.	DATE: 09/15/2014 DESIGN: PAUL GUGLIOTTA DRAWING: N. COSTANZO	EFFECTIVE DATE: 04/15/2019 STD. DWG. NO. CS-CNST002-MA	

UNCONTROLLED WHEN PRINTED 1 OF 1 © National Grid Gas plc 2019– All Rights Reserved



nationalgrid ALL REGIONS		2"-12" PE VALVE TYPICAL INSTALLATION	
REVISIONS: UPDATED ITEM ID'S	DATE: 07/01/2020 DESIGN: A.S. / MAM DRAWING: P. DIMAGIO	EFFECTIVE DATE: 06/06/2020 STD. DWG. NO. VALV-6020	

UNCONTROLLED WHEN PRINTED 1 OF 2 © National Grid Gas plc 2020– All Rights Reserved

NOTES:			
A. IN DNY LI REGION, INSTALL A LENGTH OF 2" DIAMETER PE OR SMALLER TUBING IN THE VALVE BOX TO IDENTIFY THE VALVE AS PLASTIC.			
B. INSTALL TRACER WIRE OR BALL MARKERS AS REQUIRED IN YOUR REGION FOR PE INSTALLATIONS.			
C. NOT USED ON THE DNY LI 98 & 124 PSI ES SYSTEM.			
D. REFER TO REGIONAL STANDARDS FOR MATERIAL IDS NOT GIVEN BELOW.			
	SAP ID	SAP ID	SAP ID
1	VALVE, PE (PORT CONFIGURATION AS NOTED)	UNY AND RI LP TO 100 PSIG HD	LI ONLY 99 AND 124 PSIG HD
		9311203 12" DR 11 FULL PORT W/ GEAR OPERATOR RI ONLY	9341706 8" RED PORT DR 9
		9307909 12" DR 13.5 FULL PORT W/ GEAR OPER UNY ONLY	9341705 8" RED PORT DR 9
		9311173 8" DR 11 FULL PORT RI ONLY	9341700 4" RED PORT DR 9
		9315189 8" DR 13.5 FULL PORT UNY ONLY	9341699 2" FULL PORT DR 9
		9312116 8" DR 11 FULL PORT	9323032 6" FULL PORT DR 11.5
		9312058 4" DR 11 FULL PORT	9341708 4" FULL PORT DR 11.5
		9308561 3" DR 11 FULL PORT	9323029 2" FULL PORT DR 11
		9312080 2" DR 11 FULL PORT	9341784 2" FULL PORT DR 11
		9311146 2" DR 11 FULL PORT WITH PERMASERT ENDS	9341408 8" RED PORT DR 13.5
2	ROADWAY VALVE BOX WITH COVER	SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN	LI, NYC AND NE LP TO 60 PSIG MEDIUM DENSITY
		SEE DWG FITS 6360 (FOR 12" VALVE)	9341704 12" FULL PORT DR 13.5
		9311208 (FOR 2" THRU 8" VALVE)	9386594 8" FULL PORT DR 13.5
		9341706 8" RED PORT	9323032 6" FULL PORT DR 11.5
		9341705 8" RED PORT	9341708 4" FULL PORT DR 11.5
		9341700 4" RED PORT	9323029 2" FULL PORT DR 11
		9341699 2" FULL PORT	9341784 2" FULL PORT DR 11
		SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN	9341408 8" RED PORT DR 13.5
		9382626 FOR 12" FULL PORT	9341757 8" RED PORT DR 11.5
		9326026 FOR 8" FULL PORT	9341693 4" RED PORT DR 11.5

UNCONTROLLED WHEN PRINTED Effective Date 06/06/2020 2 OF 2 © National Grid Gas plc 2020 – All Rights Reserved VALV-6020

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
01/04/2022
SIGN & DATE

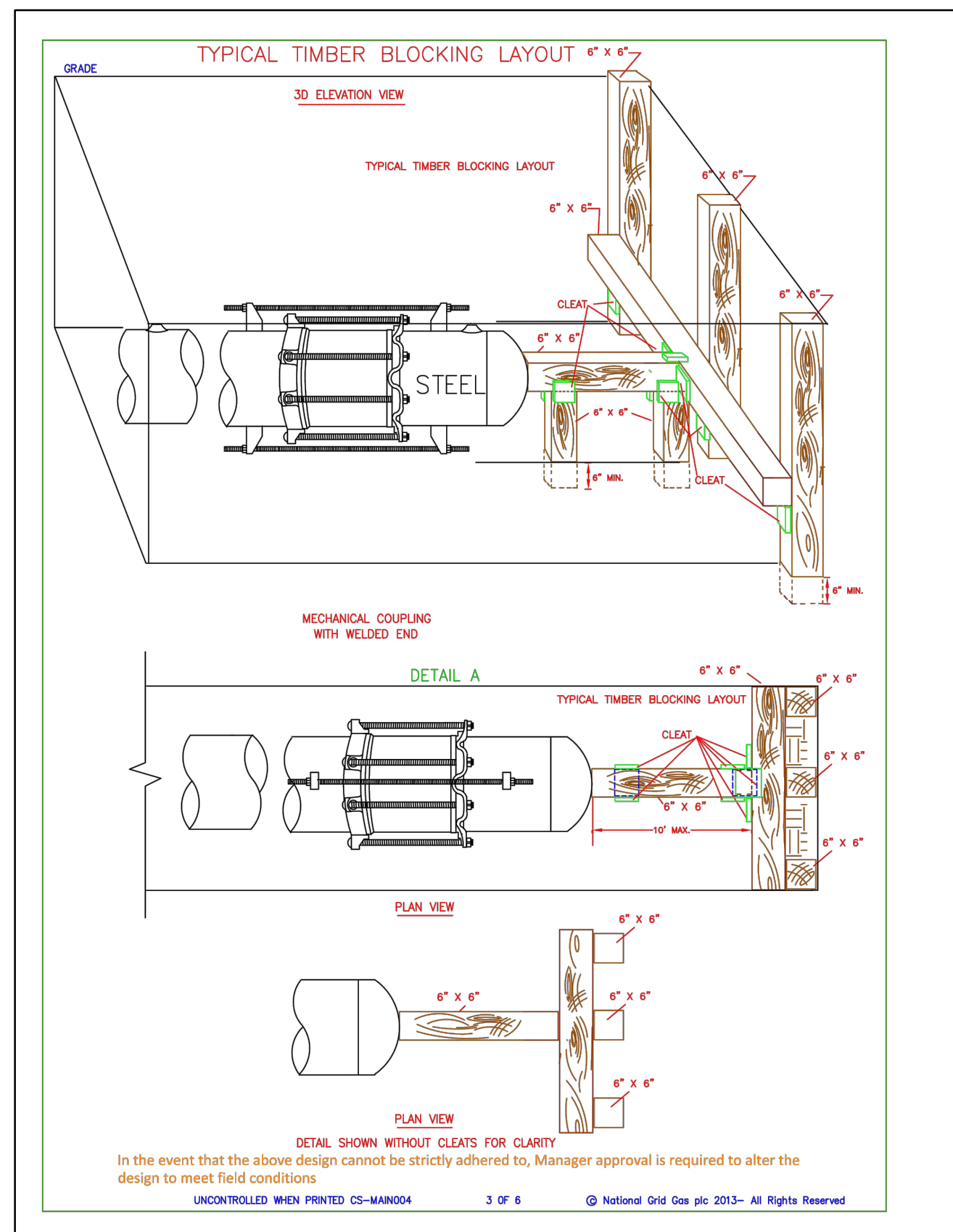
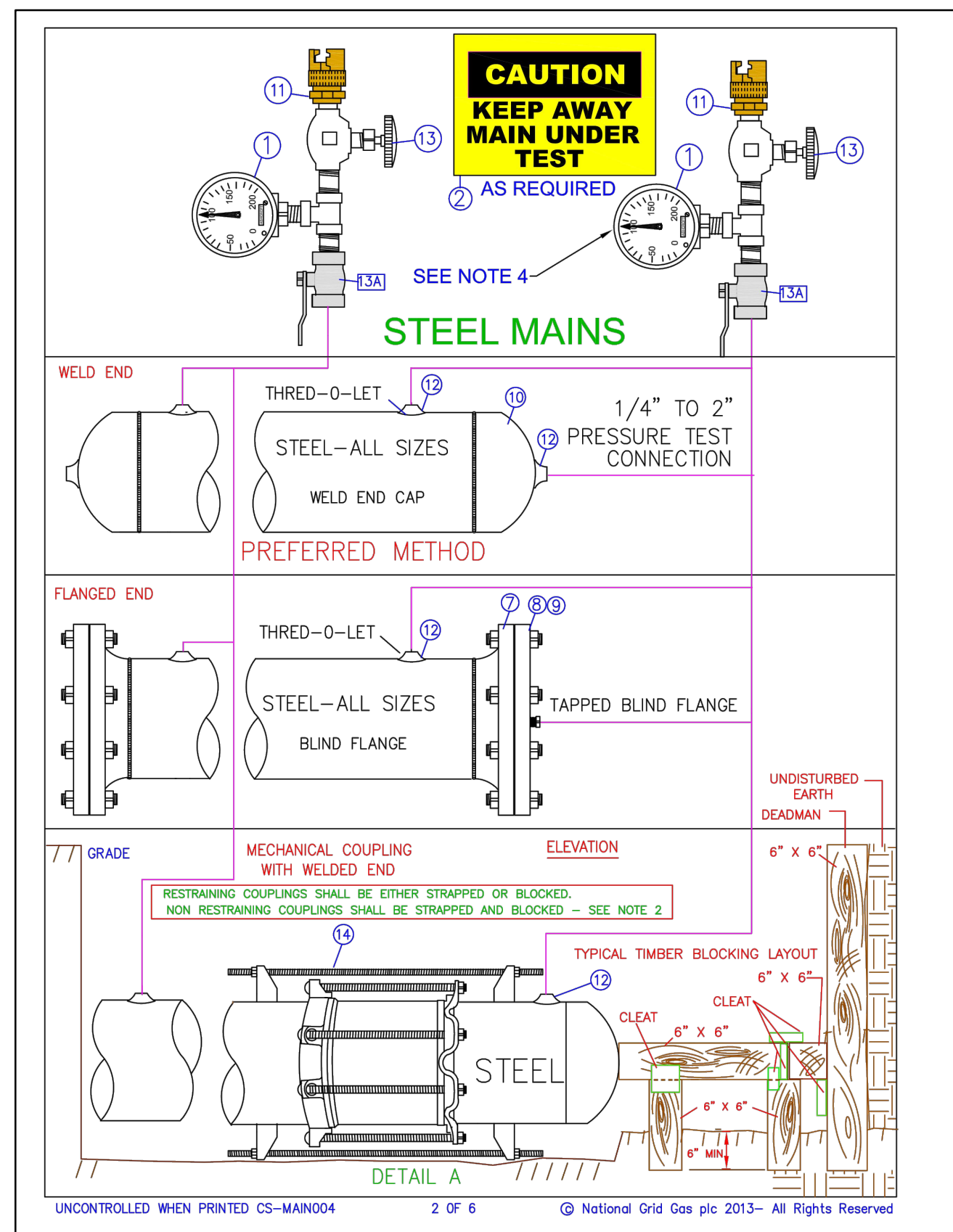
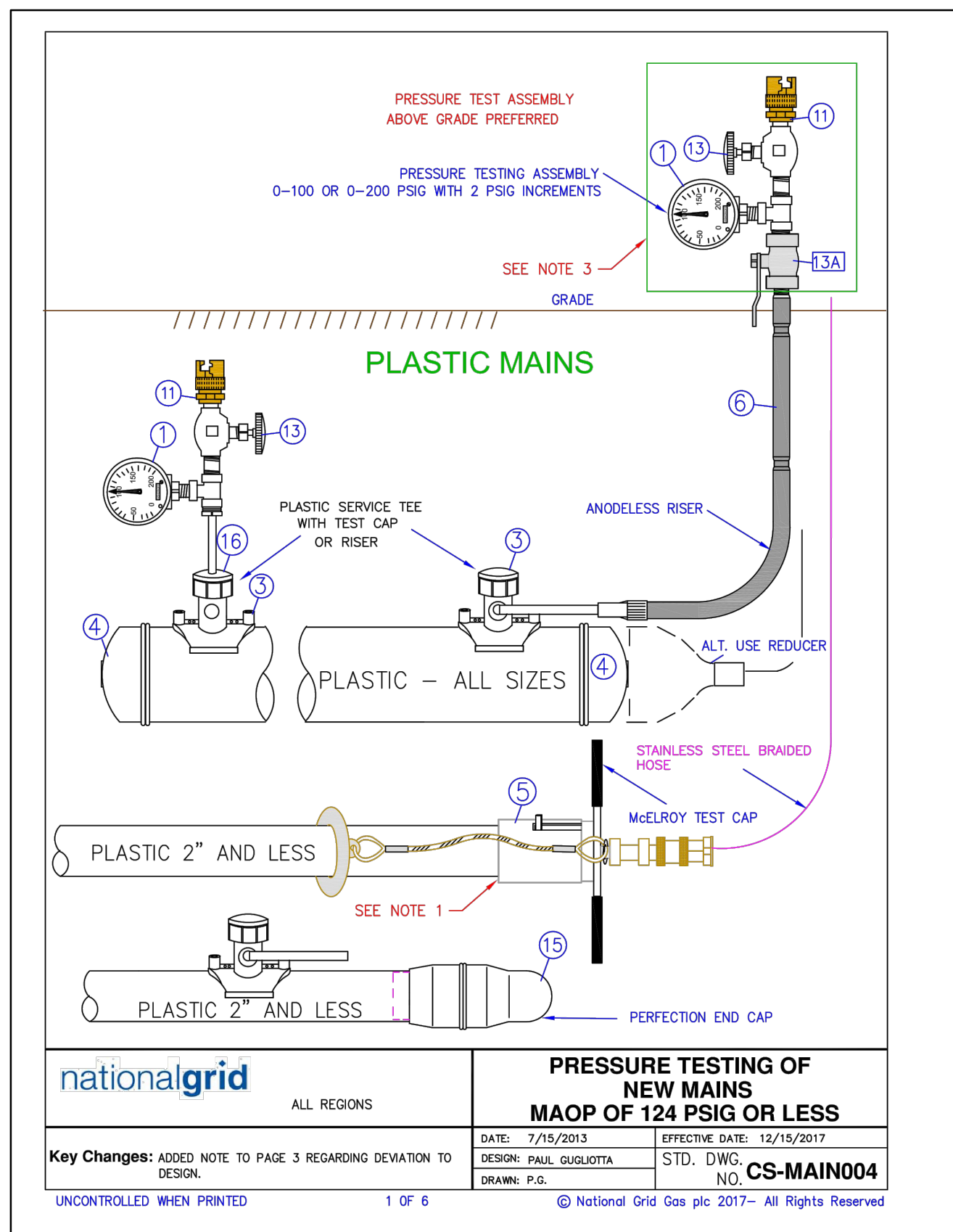
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC

BOSTON GAS COMPANY
d/b/a
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION 2" AND 4" MDPE (LP TO 22 PSIG) IRVING ST WATERTOWN, MA					
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

PAGE 7 OF 9	
DRAWING NO.	SHEET NO.
WAT-1430328-07	C-201

[illegible]

ITEM	DESCRIPTION	ORACLE ITEM LI / MA NYC	PEOPLESOFT ITEM RI AND UNY
4	CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE		
	2" SDR11	2" 9339540	NON STOCK
	3" SDR11	3" 9339541	NON STOCK
	4" SDR11	4" 9339534	NON STOCK
	6" SDR11	6" 9339733	NON STOCK
	8" SDR13.5	8" 9339559	NON STOCK
	12" SDR11.5	12" 9339560	NON STOCK
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION		
	2" SDR 9	2" 9339538	NON STOCK
	4" SDR 9	4" 9339535	NON STOCK
	6" SDR 9	6" 9339536	NON STOCK
	8" SDR 9	8" 9339537	NON STOCK
	2" SDR 11 MASS RI & UNY	2" 9339524	2" 9312686
	3" SDR 11 MASS RI & UNY	3" 9339525	3" 9310276
	4" SDR 11 MASS RI & UNY	4" 9339540	4" 9312685
	6" SDR 11 MASS RI & UNY	6" 9339541	6" 9312684
5	McUREY TEST CAPS (165 PSIG MAX)		
	1-1/4" MODEL TP	NON STOCK	8" 9312683
	2" MODEL TP-310	NON STOCK	12" 9314605
	RISER		
	1" CT5 MEDIUM DENSITY X 1/4" NPT OUTLET	9340367	NON STOCK
	1" HIGH DENSITY X 1-1/4" OUTLET	9340363	NON STOCK
	1" CST SERVAISET X 1" OUTLET	9326267	NON STOCK
	1" CT5 HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET	NON STOCK	NON STOCK
	7/8" CT5 .090" WALL PERFECTION END X 1/2" NPT STEEL	NON STOCK	9310295
	1-1/4" CT5 .090" WALL PERFECTION END X 1-1/4" NPT STEEL	NON STOCK	NON STOCK
	OR TEST CAPS WITH TEST OR PLASTIC PIPE TO TEST TR		
	TEST CAP FOR CENTRAL PLASTIC ELECTROFUSE TAPPING TEE	9381846 OR TOOL ROOM ITEM	TOOL ROOM ITEM
7	FLANGE 150# WELD END FLAT FACE		
	2"	9341058	2" 9314322
	3"	9341388	3" 9314431
	4"	9340588	4" 9314430
	6"	9341084	6" 9308559
	8"	9341015	8" 9308748
	12"	9340979	12" 9308660
	16"	9322363	MA 16" NON STOCK
	20"	9322362	MA 20" NON STOCK
8	BLIND FLANGE CLASS 150# ASTM A-105		
	2" FLAT FACE WITH 3/4" CENTER NPT TAP	9341434	2" NON STOCK
	3" FLAT FACE WITH 3/4" CENTER NPT TAP	9341014	3" NON STOCK
	4" FLAT FACE WITH 3/4" CENTER NPT TAP	9341435	4" NON STOCK
	6" FLAT FACE WITH 3/4" CENTER NPT TAP	9340942	6" NON STOCK
	2" FLAT FACE	9320274	2" 9309862
	3" FLAT FACE	9308763	3" 9307731
	4" FLAT FACE	9308775	4" 9306252
	6" FLAT FACE	9308747	6" 9306516
	8" FLAT FACE	9341083	8" 9307750
	12" FLAT FACE	9340587	12" 9308749
9	GASKETS		
	2" FULL FACE 150#	9333167	2" 9315688
	3" FULL FACE 150#	9341158	3" 9310957
	4" FULL FACE 150#	9341159	4" 9312569
	6" FULL FACE 150#	9332599	6" 9312568
	8" FULL FACE 150#	9341160	8" 9315689
	12" RING TYPE 150#	9341165	12" NON STOCK

UNCONTROLLED WHEN PRINTED

Effective Date 12/15/2017

CS-MAIN004

5 OF 6

© National Grid Gas plc 2017 - All Rights Reserved

ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLE/ST ITEM RI AND UNY
10	END CAPS - STEEL WELD END STANDARD WALL - GRADE B		
	2"	9335631	2"
	3"	9335628	3"
	4"	9335629	4"
	6"	9335632	6"
	8"	9335624	8"
	10"	9335685	10"
	12"	9339734	12"
	16"	9335633	16"
	20"	9335687	20"
11	THOR FITTING 1/2" MALE NPT X HOSE CONNECTION 3/4" FEMALE X HOSE CONNECTION	9353292 9353311	NON STOCK NON STOCK
12	THRED-O-LET 12" - 6" X 1/2" 3000# PER ASTM A-105 GRADE B 10" - 6" X 1/2" 3000# PER ASTM A-105 GRADE B 36" - 12" X 1/2" 3000# PER ASTM A-105 GRADE B 2" X 1/2" 3000# PER ASTM A-105 GRADE B 10" - 6" X 1/2" 3000# PER ASTM A-105 GRADE B 36"-14" X 1/2" 3000# PER ASTM A-105 GRADE B	- 9341652 12-6X3/4 9341656 10-6X1 9342052 36-12X1 NON STOCK NON STOCK NON STOCK	- NON STOCK NON STOCK 9307676 2X1 9307695 10-4X1 9307677 36-14X1
13	VALVE	NON STOCK	
13A	VALVE (OPTIONAL) - TO SHUT OFF TEST ASSEMBLY)		
14	LUG ASSEMBLY 7/8" X 24" LONG (LI ONLY - SEE MAIN-6210) 7/8" X 44" LONG (LI ONLY - SEE MAIN-6210) LUG GREEN 3/4" MAIN 7/8" DIAM. (NYC ONLY - SEE MAIN-6230 & MAIN-6230) LUG YELLOW 10" - 30" MAIN 1-1/8" DIAM. (NYC ONLY - SEE MAIN-6230& MAIN-6230) ROD 1/2" X 12" LONG ROD 1" X 12" LONG LUG ASSEMBLY 1/2" X 30" LONG (UNY ONLY)	9342211 9342212 9357604 9357605 9357606 9326150 9326151	NON STOCK NON STOCK 9357604 9357604 9326151 9326150 9326151
15	COUPLING - END 2" PERFECTION	NON STOCK	
16	TEST CAP FOR SADDLE FUSION TEE - CENTRAL PLASTICS FOR SADDLE FUSION TEE -JM EAGLE / POLY / UPONOR FOR SADDLE FUSION TEE - PERFORMANCE PIPE TEES FOR HWTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTRAL PLASTICS FOR HWTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION -JM EAGLE / POLY / UPONOR FOR HWTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES FOR HWTT ELECTROFUSION TEE FOR ELECTROFUSION TEE FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTT)	- 9325109 9325017 9341368 9364268 9384174 9384175 9382651 9382484 9315741 9335661	- TOOL ROOM ITEM

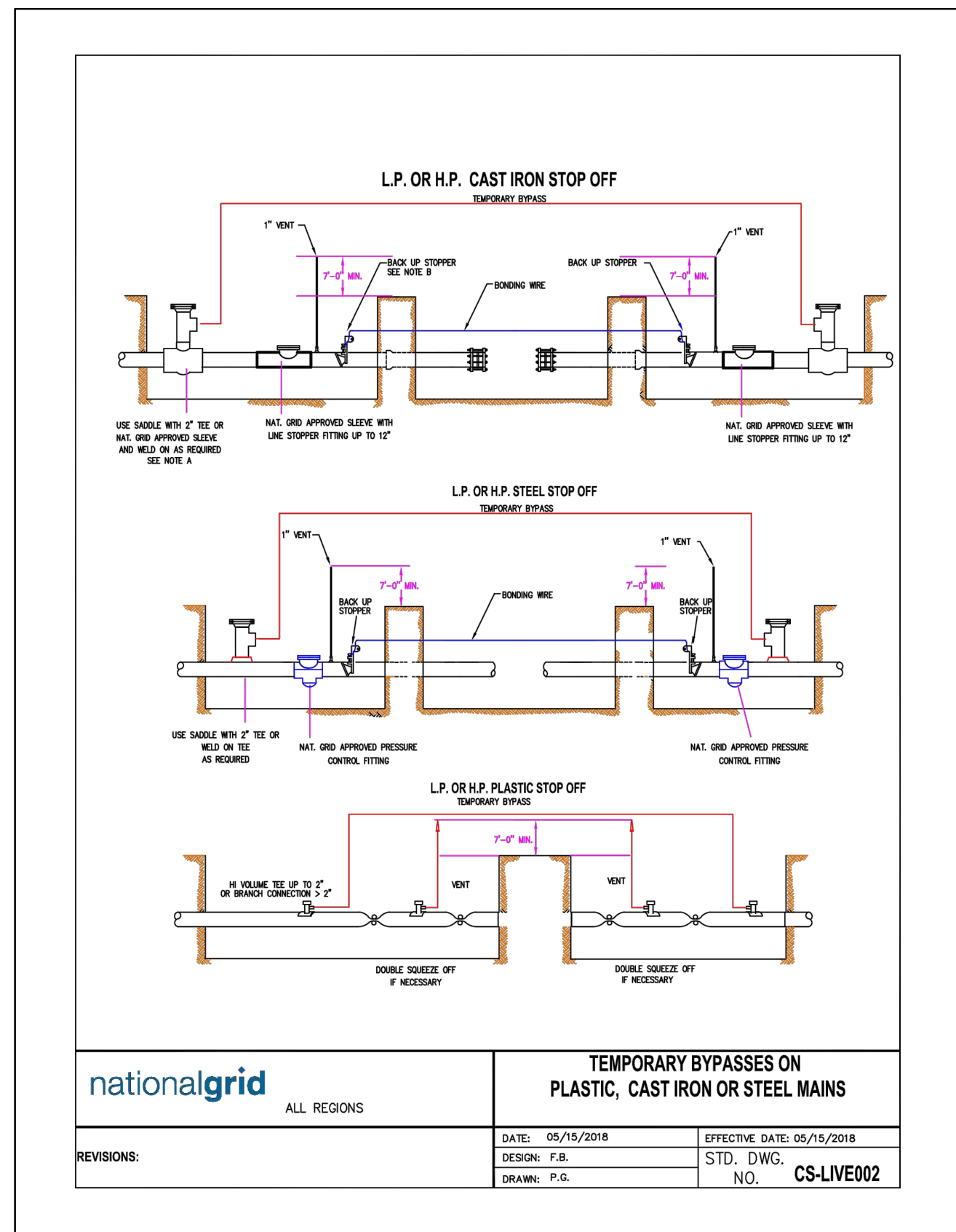
UNCONTROLLED WHEN PRINTED

Effective Date 12/15/2017

6 OF 6

© National Grid Gas plc 2017 - All Rights Reserved

CS-MAIN004

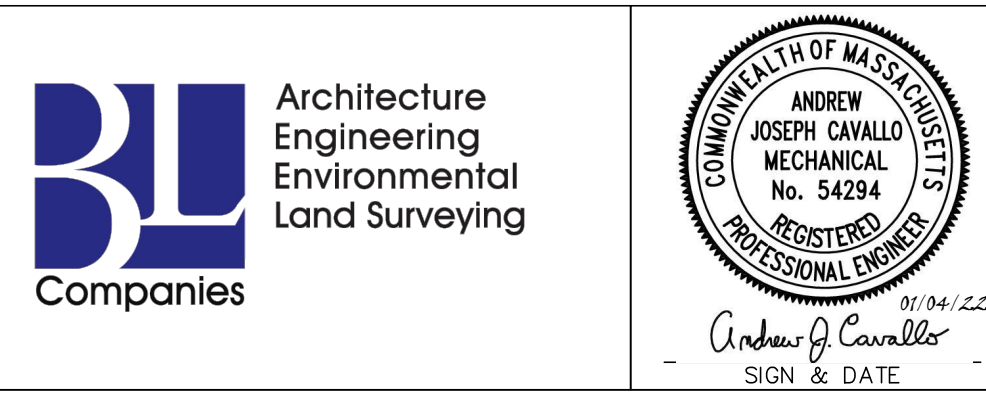


NOTES:

- A. FOR BYPASSES ON THE LP SYSTEM ONLY SCREW TEES AND BAGHOLES MAY BE TAPPED DIRECTLY INTO THE MAIN.
- B. BACK UP STOPPERS WILL BE REQUIRED IF INSUFFICIENT STOP OFF CAN BE ACHIEVED OR IF WELDING BETWEEN THE STOPPERS WILL BE REQUIRED.
- C. STOP OFF CAN BE PERFORMED USING MUELLER, T.D. WILLIAMSON, KLISS, BAGS, OR OTHER APPROVED STOP OFF SYSTEMS.

SHT. 2 OF 2 **CS-LIVE002**

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.



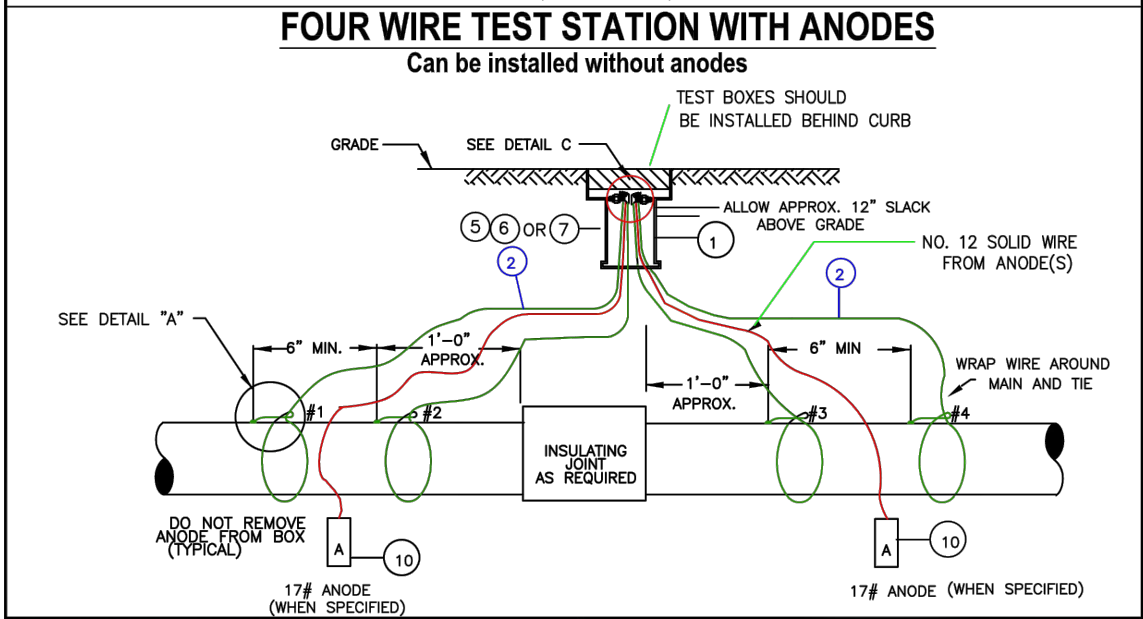
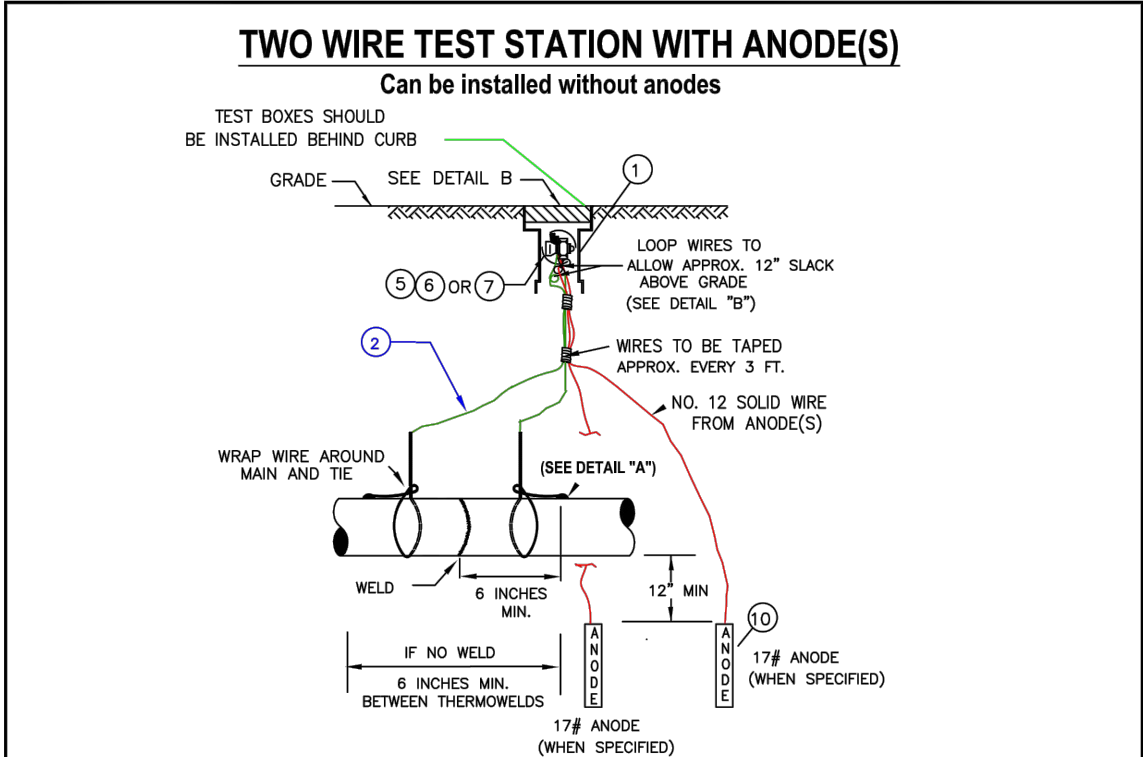
									BOSTON GAS COMPANY d/b/a
									nationalgrid
									40 SYLVAN ROAD WALTHAM, MA 02451
0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC	IFC			
NO.	DESCRIPTION	DATE	DR.BY	CX.BY	APP.BY				

PROPOSED GAS MAIN INSTALLATION
2" AND 4" MDPE (LP TO 22 PSIG)
IRVING ST
WATERTOWN, MA

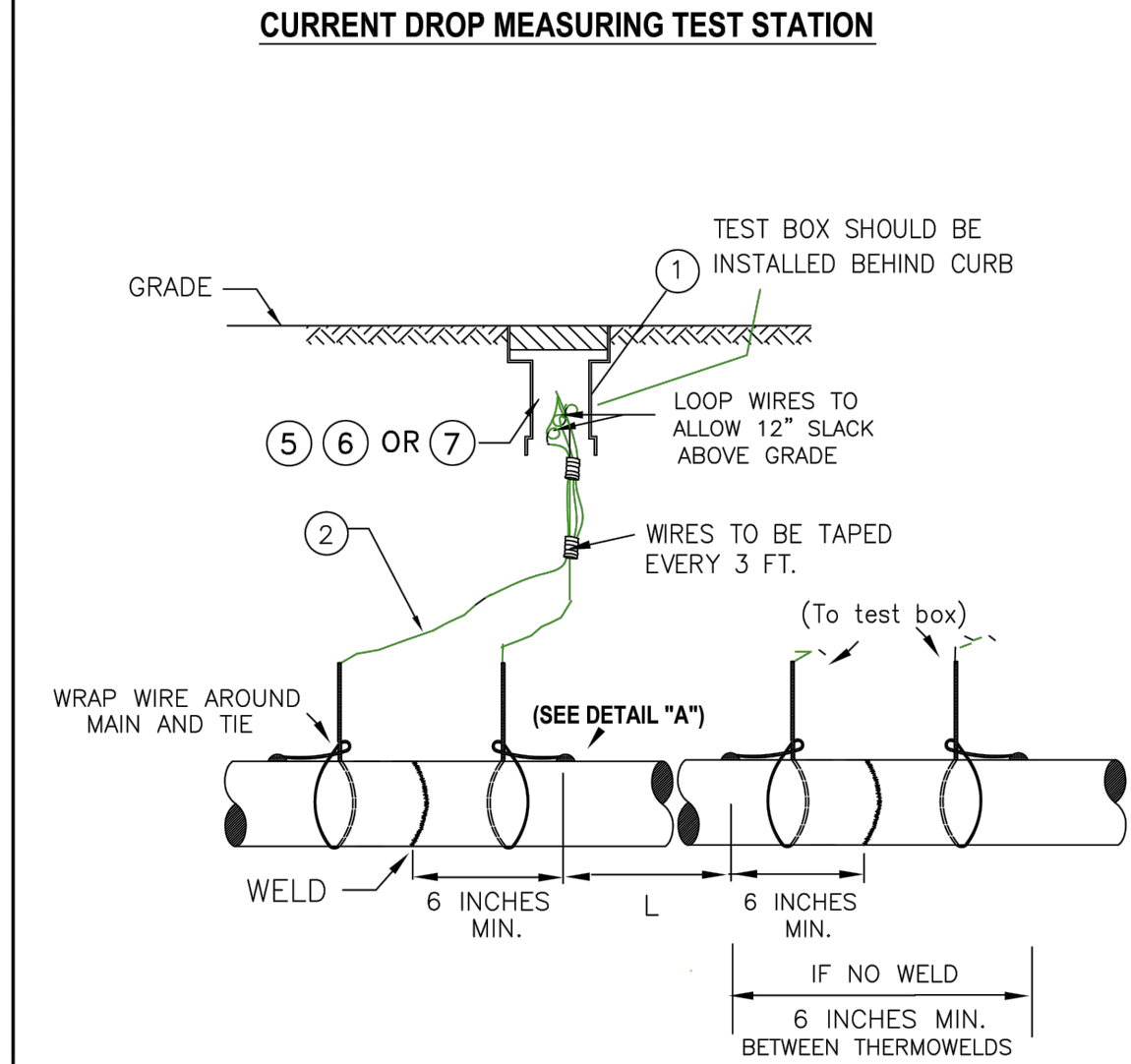
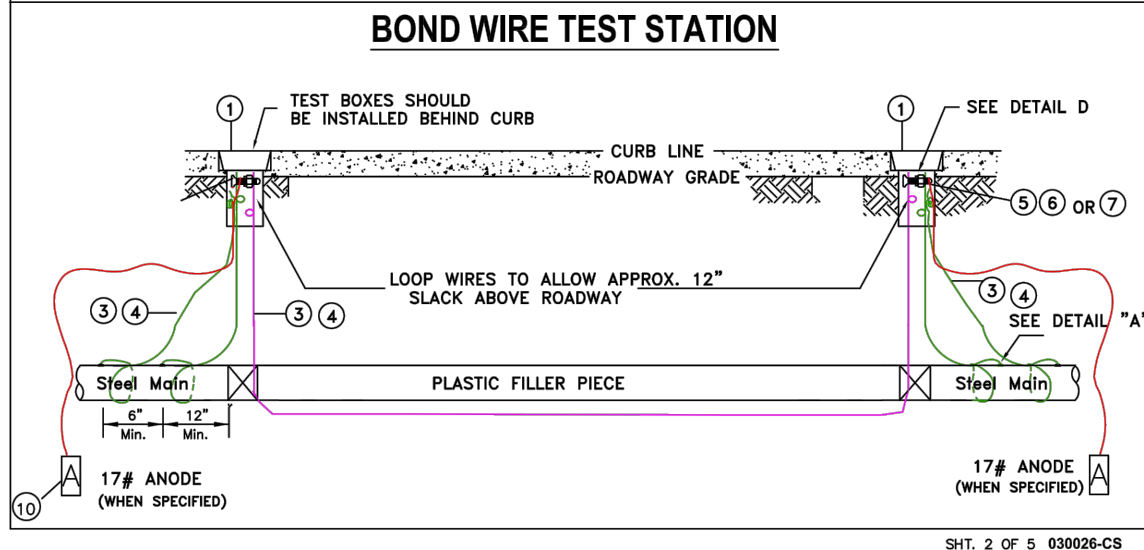
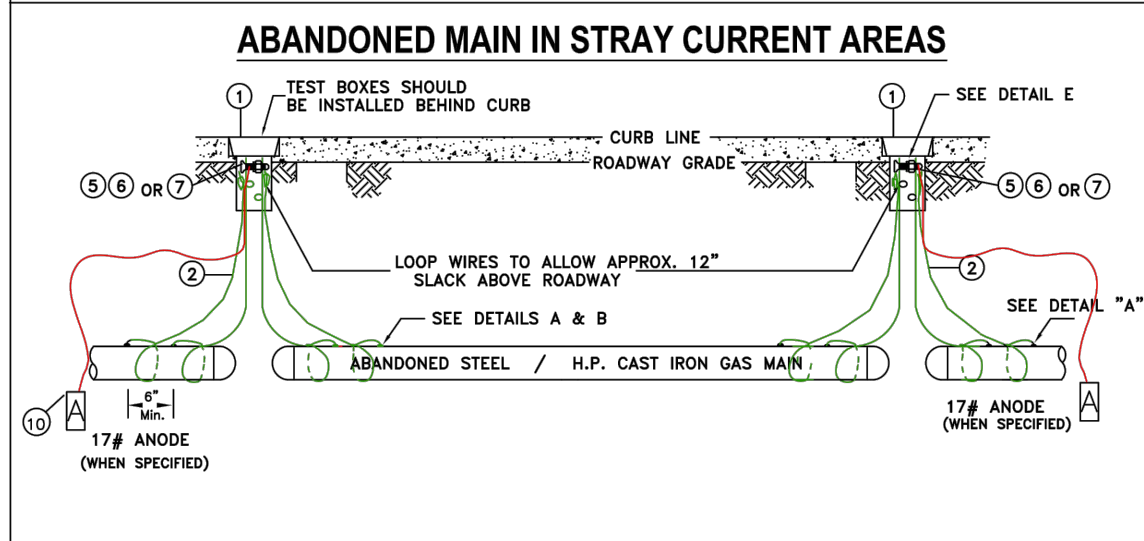
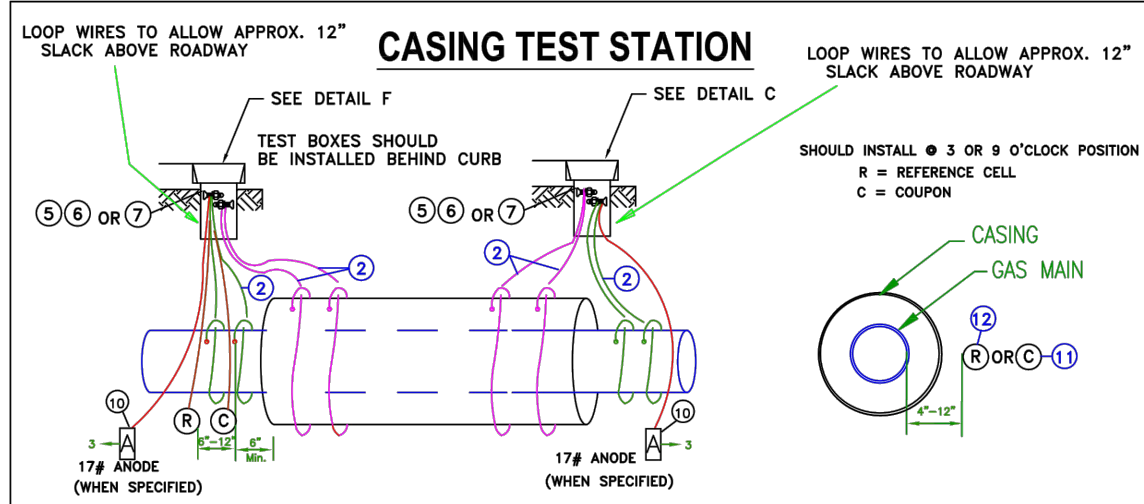
MISCELLANEOUS DETAIL 2 OF 3

DWG. SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

PAGE 8 OF 9	
DRAWING NO.	SHEET NO.
WAT-1430328-08	C-202

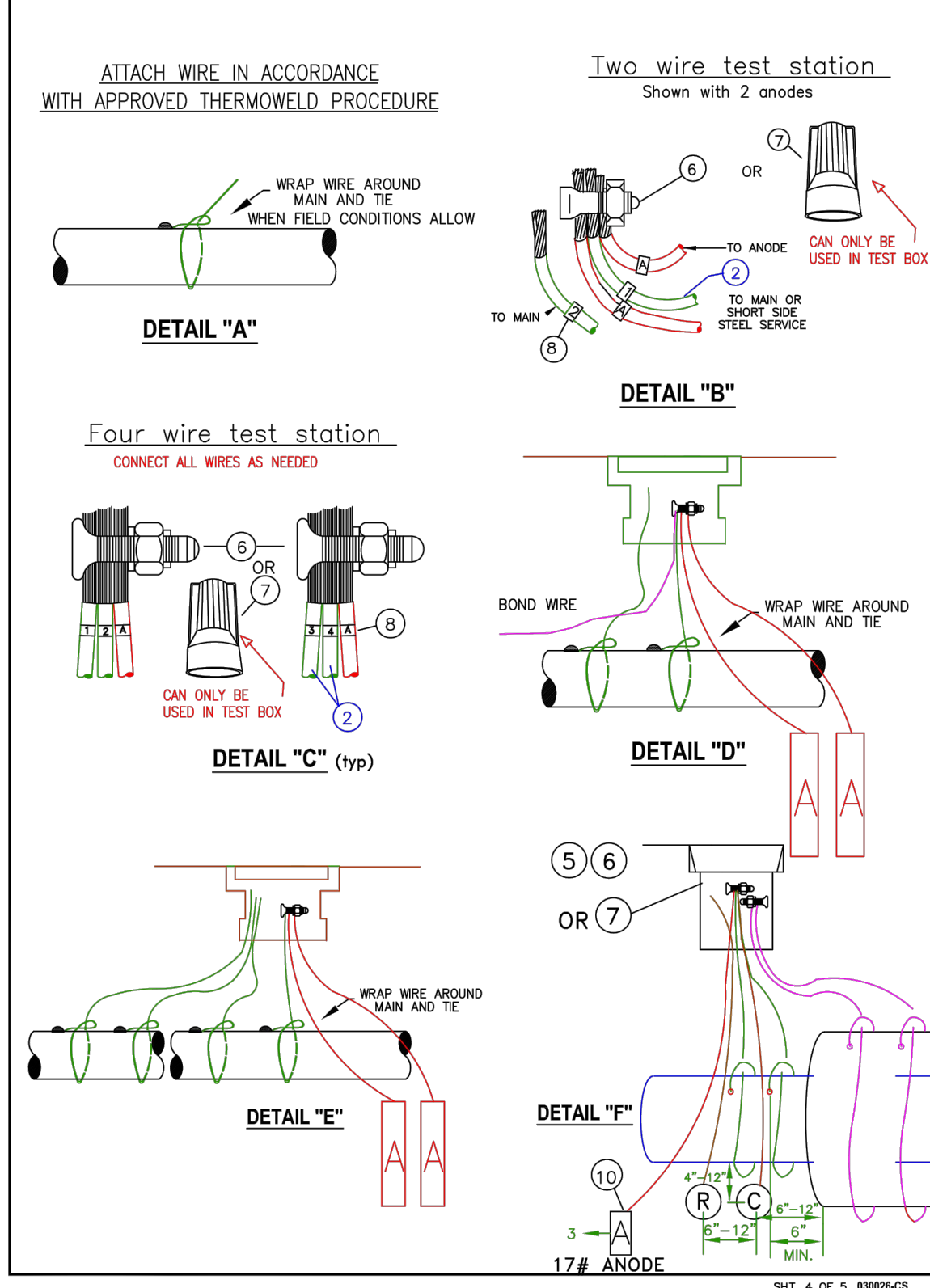


nationalgrid	ALL REGIONS		INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION	
	DATE:	07/15/2010	EFFECTIVE DATE:	09/15/2013
	DESIGN:	PG	STD. DWG. NO.	030026-CS
REVISIONS: REVISED USING SAP ITEM ID'S		APPROVED: PS		
UNCONTROLLED WHEN PRINTED		1 OF 5	© National Grid Gas plc 2013- All Rights Reserved	



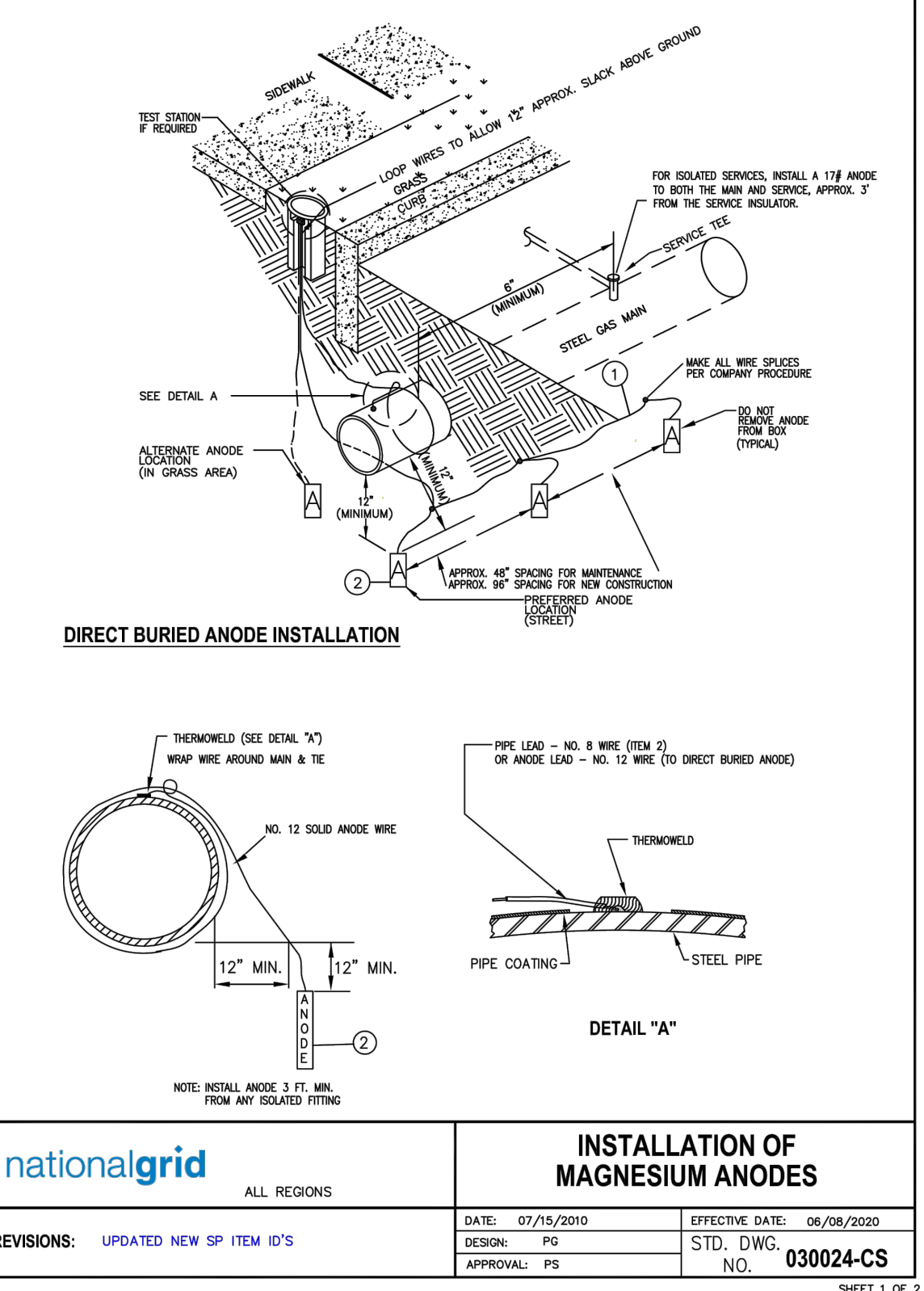
CURRENT DROP MEASURING TEST STATION SPACING

PIPE DIAMETER	"L"
3/4" - 4"	75'
6" - 10"	100'
12" AND OVER	125'



MATERIAL LIST						
	Description	Down State SAP Item I.D	Upstate SAP Item I.D	New England SAP Item I.D	Rhode Island SAP Item I.D	MATERIAL NOTES
1	TEST BOX WITH COVER	9339892	9339892	9339892	9339892	NON LOCKING COVER. DISCARD FOOT PIECE.
	TEST BOX 9" SQUARE HEAVY DUTY	9339391		9339391		WEIGHS 95 LBS. STREET USE, WITHOUT COVER
	COVER FOR 9" SQUARE BOX	9339797		9339797		NON-LOCKING COVER
2	WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS. UPSTATE AND RI WIRE HAS 19 STRANDS.
3	WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
4	WIRE 1/0 - 19 STRAND 600 V - 1/C	9334171	9334171	9334171	9334171	USE IN STRAY CURRENT AREAS
5	TAPE, PVC - 3/4" WIDE	9334056	9334056	9334056	9334056	NOT FOR PIPE COATING.
6	CONNECTOR, SPLIT BOLT, TYPE 6	9331578	9331578	9331578	9331578	USE WITH NO. 6 CABLE
	CONNECTOR, SPLIT BOLT, TYPE 1/01	9331612		9331612		USE WITH 1/0 CABLE
7	CONNECTOR, TWIST-ON WIRE NUT	9330683	9314631	9330683	9314631	
8	TAG, ADHESIVE NUMBER 1 NUMBER 2 NUMBER 3 NUMBER 4 LETTER A	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	LABEL WITH #1 (N) OR (E), CONSECUTIVELY TO (S) OR (W) SEE DETAILS "B" AND "C"
9	GROUNDING CELL	9315642	9315642	9315642	9315642	USE TO LABEL ANODES AS SPECIFIED BY CORROSION ENGINEERING
10	ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
11	COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
12	REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFRG INC OR EQUAL

UNCONTROLLED WHEN PRINTED 5 OF 5 © National Grid Gas plc 2020- All Rights Reserved Effective Date 06/08/2020 030026-CS



nationalgrid	ALL REGIONS		INSTALLATION OF MAGNESIUM ANODES	
	DATE:	07/15/2010	EFFECTIVE DATE:	06/08/2020
	DESIGN:	PG	STD. DWG. NO.	030024-CS
REVISIONS: UPDATED NEW SP ITEM ID'S		APPROVAL: PS		
		01/04/22	SIGN & DATE	
		SHEET 1 OF 2		

MATERIAL LIST						
	Description	Down State NY Item I.D	Upstate NY Item I.D	New England Item I.D	Rhode Island Item I.D	MATERIAL NOTES
1	CABLE NO. 8 - 1/C	9334425	9311214	9334425	9311214	Upstate and RI cable has 19 strands
2	ANODE, MAGNESIUM 17 LB	9311183	9311183	9311183	9311183	
3	ANODE, MAGNESIUM 3 LB	9315645	9315645	9315645	9315645	Use on Tracer wire and all isolated fittings.
4	ANODE, MAGNESIUM SPIKE 3 LB	9308624	9308624	9308624	9308624	Use on Service Risers ONLY
*	CLAMP, GROUNDING 1/2IN - 1IN DIA.	9386544	9386544	9386544	9386544	Grounding clamp for attaching spike anode lead wire to service riser
*	CLAMP, GROUNDING 1-1/4IN - 2IN DIA.	9386559	9386559	9386559	9386559	Grounding clamp for attaching spike anode lead wire to service riser

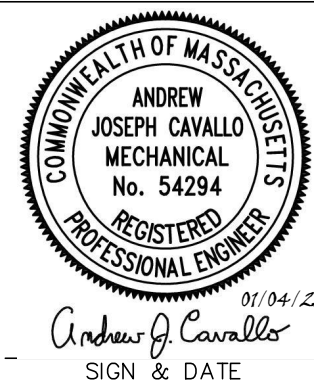


* Spike Anode Ground Clamp

SHT. 2 OF 2 030024-CS

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

Architecture Engineering Environmental Land Surveying Companies



NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	01/04/2022	LA	TA	AC

BOSTON GAS COMPANY d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451
IFC

PROPOSED GAS MAIN INSTALLATION 2" AND 4" MDPE (LP TO 22 PSIG) IRVING ST WATERTOWN, MA					
MISCELLANEOUS DETAIL 3 OF 3					
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	L. AFFRONTI	A. CAVALLO	01/04/2022	DISTRIBUTION	1430328

PAGE 9 OF 9	
DRAWING NO.	SHEET NO.
WAT-1430328-09	C-203



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – EVERSOURCE GROUP

Grant of Location: 66 GALEN STREET AND WATER STREET
WO #6268576
August 30, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, September 13, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from Eversource for consideration of a Grant of Location for the following installations:

- Galen Street – Install and maintain approximately 106 linear feet of 6 – 5-inch PVC conduits from manhole MH 26530 to the property line at 66 Galen Street and install and maintain approximately 62 linear feet of 6 – 5-inch PVC conduits from manhole MH 6178 at Aldrich Road to the property line at 66 Galen Street
- Water Street – Install and maintain approximately 36 linear feet of 4 – 4-inch PVC conduits from the property line at 66 Galen Street to the property line at 0 Water Street and install and maintain approximately 3 linear feet of 3 – 4-inch PVC conduits from pole 142/6 on Water Street to the property line of 51-57 Water Street

This work is necessary to provide electric service to 66 Galen Street, 0 Water Street, and 51-57 Water Street. Upon completion of the Department of Public Works review, the following recommendations and conditions for consideration by the City Council will be required should the Grant of Location be approved for this application.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Mark Pavone at 508-530-8681 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: May 17, 2022
APPLICANT: Eversource
WORK ORDER: WO# 6268576
LOCATION: Galen Street and Water Street

Watertown Department of Public Works has reviewed the attached petition by Eversource for consideration of a Grant of Location for the following installations:

- **Galen Street – Install and maintain approximately 106 linear feet of 6 – 5-inch PVC conduits from manhole MH26530 to the property line at 66 Galen Street and install and maintain approximately 62 linear feet of 6 – 5-inch PVC conduits from manhole MH6178 at Aldrich Road to the property line at 66 Galen Street.**
- **Water Street – Install and maintain approximately 36 linear feet of 4 – 4-inch PVC conduits from the property line at 66 Galen Street to the property line at 0 Water Street and install and maintain approximately 3 linear feet of 3 – 4-inch PVC conduits from pole 142/6 on Water Street to the property line of 51-57 Water Street.**

This work is necessary to provide electric service to 66 Galen Street, 0 Water Street, and 51-57 Water Street. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.

7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



Photo 1: View of Utility Pole 142/6 and 51 Water Street.



Photo 2: View of Utility Pole 142/6.



View of MH6178 within Galen Street facing the 66 Galen Street property.



View of MH26530 within Galen Street facing the 66 Galen Street property.

**PETITION OF NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY
FOR LOCATION FOR CONDUITS
AND MANHOLES**

To the **City Council** of the City of **WATERTOWN** Massachusetts:

Respectfully represents **NSTAR ELECTRIC Company d/b/a Eversource Energy** a company incorporated for the transmission of electricity for lighting, heating or power, that it desires to construct a line for such transmission under the public way or ways hereinafter specified.

WHEREFORE, your petitioner prays that, after due notice and hearing as provided by law, the council may by Order grant to your petitioner permission to construct, and a location for, such a line of conduits and manholes with the necessary wires and cables therein, said conduits and manholes to be located, substantially as shown on the plan made by **T. Thibault Dated April 22, 2022**, and filed herewith, under the following public way or ways of said City:

**NSTAR ELECTRIC COMPANY
d/b/a EVERSOURCE ENERGY**

- Galen Street - Northeasterly from MH26530, 50 feet south of Aldrich Road, install approximately 106 feet of conduit. Southeasterly from MH6178 at Aldrich Road install approximately 62 feet conduit.**
- Water Street - Northeasterly, approximately 200 feet southwest of Galen Street install approximately 35 feet of conduit.**
- Water Street - Westerly from pole 142/6, approximately 365 feet northwest of Nonatum Road install approximately 3 feet of conduit.**

W.O.# 6268576

BY *Richard M. Schifone*
Richard M. Schifone, Supervisor
Rights & Permits

Dated this ____ day of _____ 2022

City of **WATERTOWN** Massachusetts

Received and filed _____ 2022

**ORDER FOR LOCATION FOR CONDUITS AND MANHOLES
City of WATERTOWN**

WHEREAS, **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** has petitioned for permission to construct a line for the transmission of electricity for lighting, heating or power under the public way or ways of the City thereafter specified, and notice has been given and a hearing held on said petition as provided by law.

It is ORDERED that **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** be and hereby is granted permission to construct and a location for, such a line of conduits and manholes with the necessary wires and cables therein under the following public way or ways of said City:

Galen Street - Northeasterly from MH26530, 50 feet south of Aldrich Road, install approximately 106 feet of conduit. Southeasterly from MH6178 at Aldrich Road install approximately 62 feet conduit.

Water Street - Northeasterly, approximately 200 feet southwest of Galen Street install approximately 36 feet of conduit.

Water Street - Westerly from pole 142/6, approximately 365 feet northwest of Nonatum Road install approximately 3 feet of conduit.

W.O.# 6268576

All construction work under this Order shall be in accordance with the following conditions:

1. Conduits and manholes shall be located as shown on the plan made by **T. Thibault, dated April 22, 2022** on the file with said petition.
2. Said shall comply with the requirements of existing by-laws and such as may hereafter be adopted governing the construction and maintenance of conduits and manholes.
3. Company All work shall be done to the satisfaction of the City council or such officer or officers as it may appoint to supervise the work.

1	_____	
2	_____	
3	_____	
4	_____	
5	_____	

**City Council
the City of
WATERTOWN**

CERTIFICATE

We hereby certify that the foregoing Order was adopted after due notice and a public hearing as prescribed by Section 22 of Chapter 166 of the General Laws (Ter. Ed.), and any additions thereto or amendments thereof, to wit:-after written notice of the time and place of the hearing mailed at least seven days prior to the date of the hearing by the council to all owners of real estate abutting upon that part of the way or ways upon, along or across which the line is to be constructed under said Order, as determined by the last preceding assessment for taxation, and a public hearing held on the _____ day of _____ 2022 at _____ in said City.

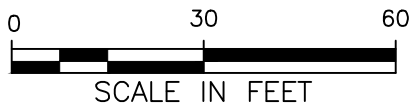
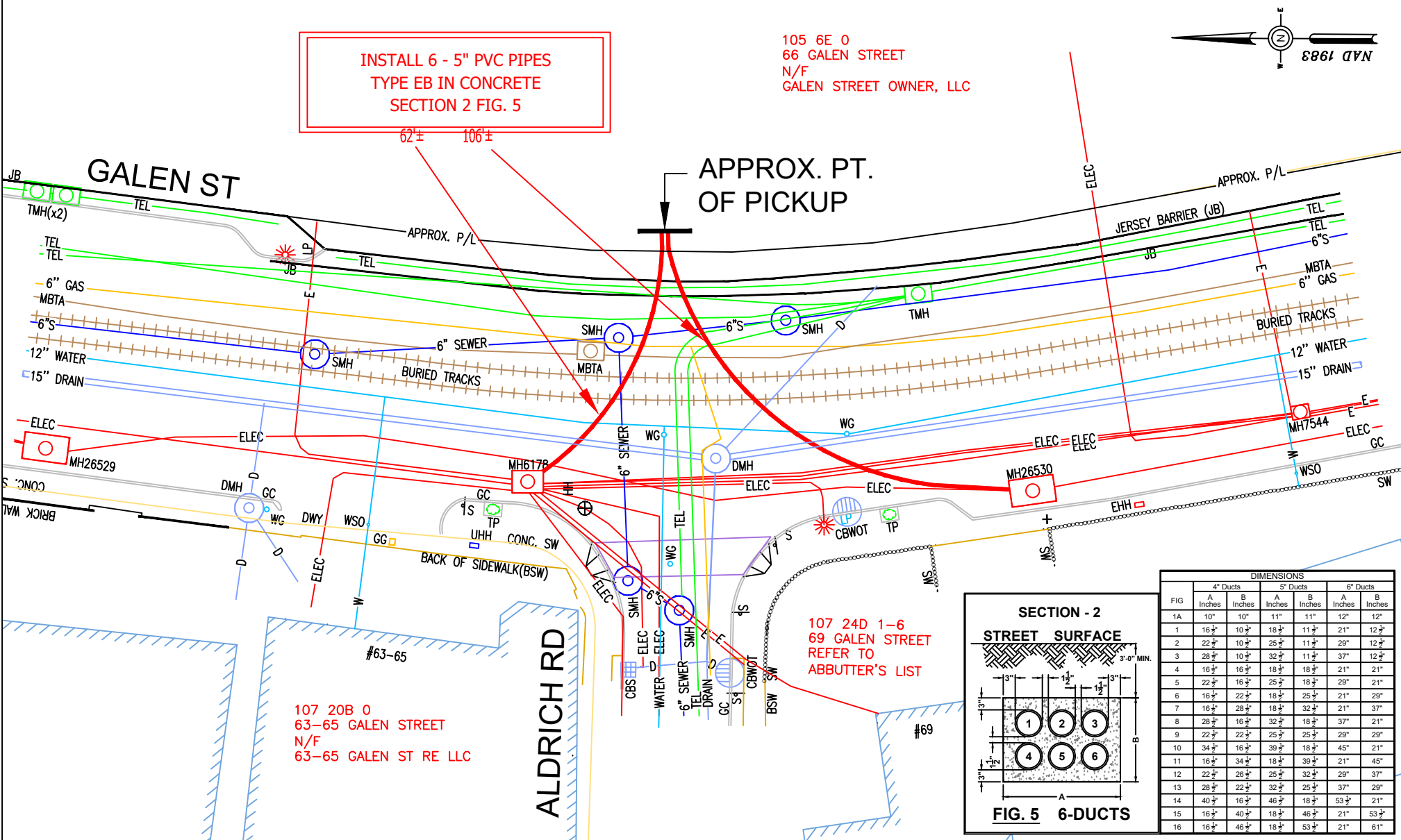
1	_____	
2	_____	
3	_____	
4	_____	
5	_____	

**City Council
the City of
WATERTOWN**

CERTIFICATE

I hereby certify that the foregoing are true copies of the Order of the **City Council** of the City of **WATERTOWN**, Massachusetts, duly adopted on the _____ day of _____, 2022 and recorded with the records of location Orders of said City, Book _____, Page _____ and of the certificate of notice of hearing thereon required by Section 22 of Chapter 166 of the General Laws (Ter.Ed.) and any additions thereto or amendments thereof, as the same appear of record.

Attest: _____
Clerk of the City of **WATERTOWN**, Massachusetts



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION OR IN RELIANCE UPON IT, TO THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION, EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 95-22

Ward #

Work Order # 6268576

Surveyed by: GC/BP

Research by: JC

Plotted by: BP

Proposed Structures:

Approved: T THIBAUT

P#

NSTAR ELECTRIC
d/b/a **EVSOURCE**

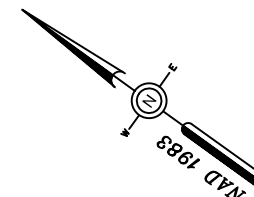
1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of GALEN STREET
WATERTOWN

Showing PROPOSED CONDUIT LOCATION

Scale 1"=30' Date 04/22/2022

SHEET 1 of 3



INSTALL 4 - 4" PVC PIPES
TYPE EB IN CONCRETE
SECTION 2 FIG. 3

APPROX. PT.
OF PICKUP

106 2 0
WATER STREET
N/F
MASSACHUSETTS BAY TRANSPORTATION

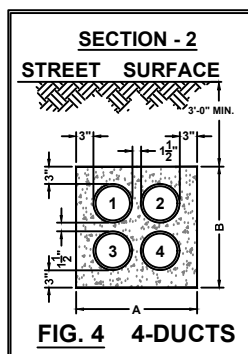
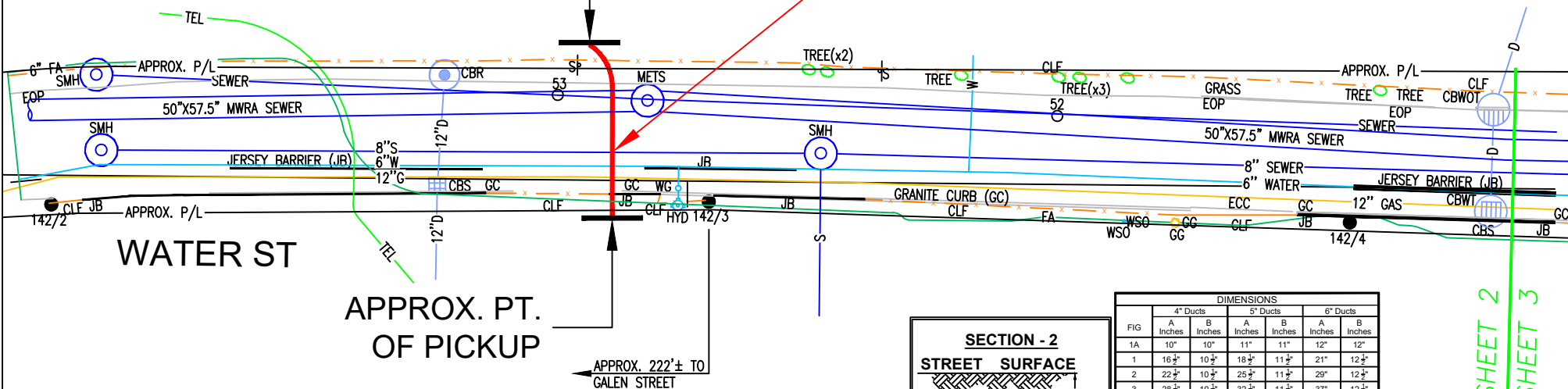
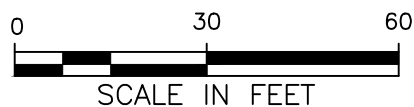


FIG	4" Ducts		5" Ducts		6" Ducts	
	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches
1A	10"	10"	11"	11"	12"	12"
1	16 1/2"	10 1/2"	18 1/2"	11 1/2"	21"	12 1/2"
2	22 1/2"	10 1/2"	25 1/2"	11 1/2"	29"	12 1/2"
3	28 1/2"	10 1/2"	32 1/2"	11 1/2"	37"	12 1/2"
4	16 1/2"	16 1/2"	18 1/2"	18 1/2"	21"	21"
5	22 1/2"	16 1/2"	25 1/2"	18 1/2"	29"	21"
6	16 1/2"	22 1/2"	18 1/2"	25 1/2"	21"	29"
7	16 1/2"	28 1/2"	18 1/2"	32 1/2"	21"	37"
8	28 1/2"	16 1/2"	32 1/2"	18 1/2"	37"	21"
9	22 1/2"	22 1/2"	25 1/2"	25 1/2"	29"	29"
10	34 1/2"	16 1/2"	39 1/2"	18 1/2"	45"	21"
11	16 1/2"	34 1/2"	18 1/2"	39 1/2"	21"	45"
12	22 1/2"	26 1/2"	25 1/2"	32 1/2"	29"	37"
13	28 1/2"	22 1/2"	32 1/2"	25 1/2"	37"	29"
14	40 1/2"	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"
15	16 1/2"	40 1/2"	18 1/2"	46 1/2"	21"	53 1/2"
16	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"	61"

SHEET 2
SHEET 3



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION OR IN RELIANCE UPON IT, TO THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION, EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 95-22

Ward #

Work Order # 6268576

Surveyed by: GC/BP

Research by: JC

Plotted by: BP

Proposed Structures:

Approved: T THIBAUT

P#

NSTAR EVERSOURCE
ELECTRIC
d/b/a

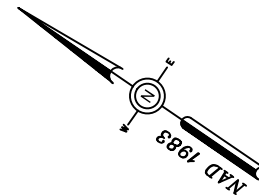
1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of WATER STREET
WATERTOWN

Showing PROPOSED CONDUIT LOCATION

Scale 1"=30' Date 04/22/2022

SHEET 2 of 3

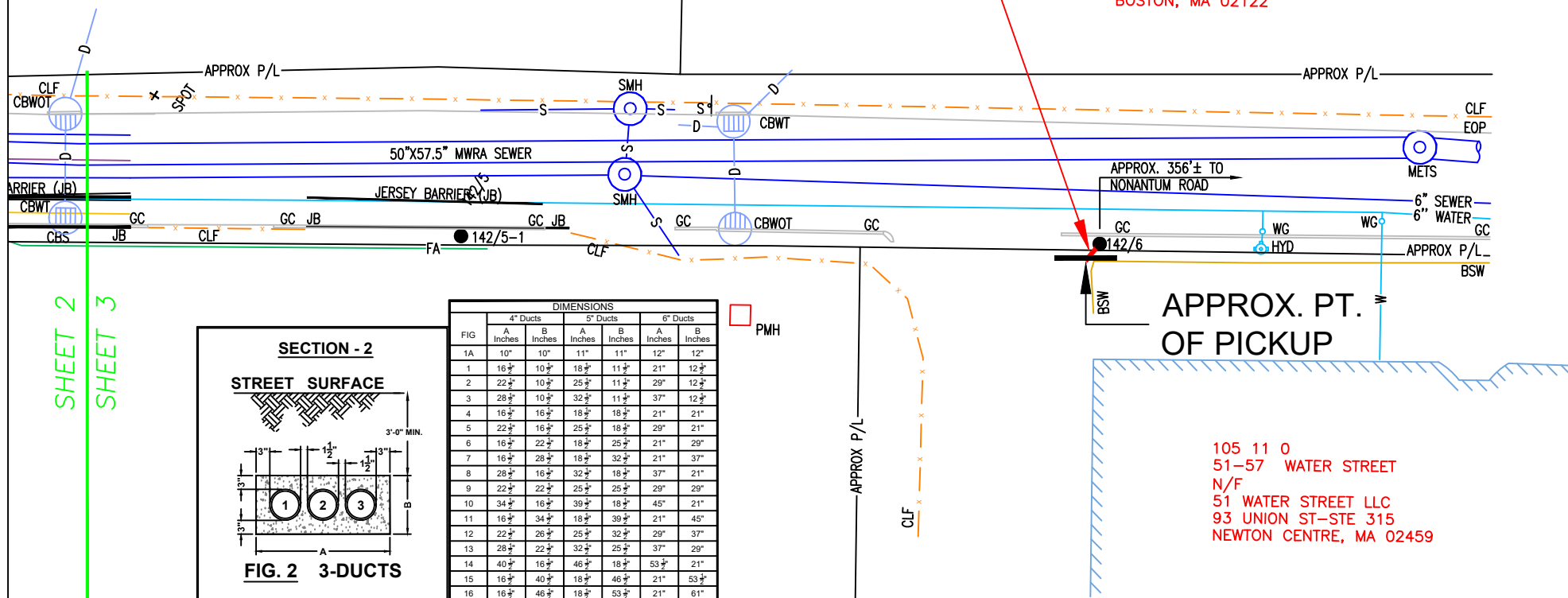


INSTALL 3 - 4" PVC PIPES
TYPE EB IN CONCRETE
SECTION 2 FIG. 2

3'±

106 2 0
WATER STREET
N/F
MASSACHUSETTS BAY TRANSPORTATION

106 4B 0
WATER STREET
N/F
MASSACHUSETTS BAY TRANSPORTATION
45 HIGH ST
BOSTON, MA 02122



SECTION - 2 STREET SURFACE

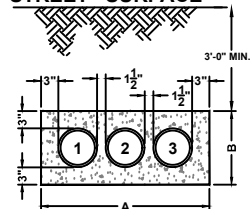


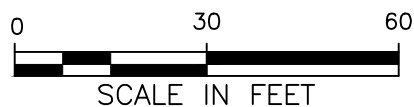
FIG. 2 3-DUCTS

FIG	4" Ducts		5" Ducts		6" Ducts	
	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches
1A	10"	10"	11"	11"	12"	12"
1	16 1/2"	10 1/2"	18 1/2"	11 1/2"	21"	12 1/2"
2	22 1/2"	10 1/2"	25 1/2"	11 1/2"	29"	12 1/2"
3	28 1/2"	10 1/2"	32 1/2"	11 1/2"	37"	12 1/2"
4	16 1/2"	16 1/2"	18 1/2"	18 1/2"	21"	21"
5	22 1/2"	16 1/2"	25 1/2"	18 1/2"	29"	21"
6	16 1/2"	22 1/2"	18 1/2"	25 1/2"	21"	29"
7	16 1/2"	28 1/2"	18 1/2"	32 1/2"	21"	37"
8	28 1/2"	16 1/2"	32 1/2"	18 1/2"	37"	21"
9	22 1/2"	22 1/2"	25 1/2"	25 1/2"	29"	29"
10	34 1/2"	16 1/2"	39 1/2"	18 1/2"	45"	21"
11	16 1/2"	34 1/2"	18 1/2"	39 1/2"	21"	45"
12	22 1/2"	26 1/2"	25 1/2"	32 1/2"	29"	37"
13	28 1/2"	22 1/2"	32 1/2"	25 1/2"	37"	29"
14	40 1/2"	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"
15	16 1/2"	40 1/2"	18 1/2"	46 1/2"	21"	53 1/2"
16	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"	61"

PMH

APPROX. PT.
OF PICKUP

105 11 0
51-57 WATER STREET
N/F
51 WATER STREET LLC
93 UNION ST-STE 315
NEWTON CENTRE, MA 02459



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION OR IN RELIANCE UPON IT, TO THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION, EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 95-22

Ward #

Work Order # 6268576

Surveyed by: GC/BP

Research by: JC

Plotted by: BP

Proposed Structures:

Approved: T THIBAUT

P#

NSTAR ELECTRIC **EVERSOURCE**
d/b/a

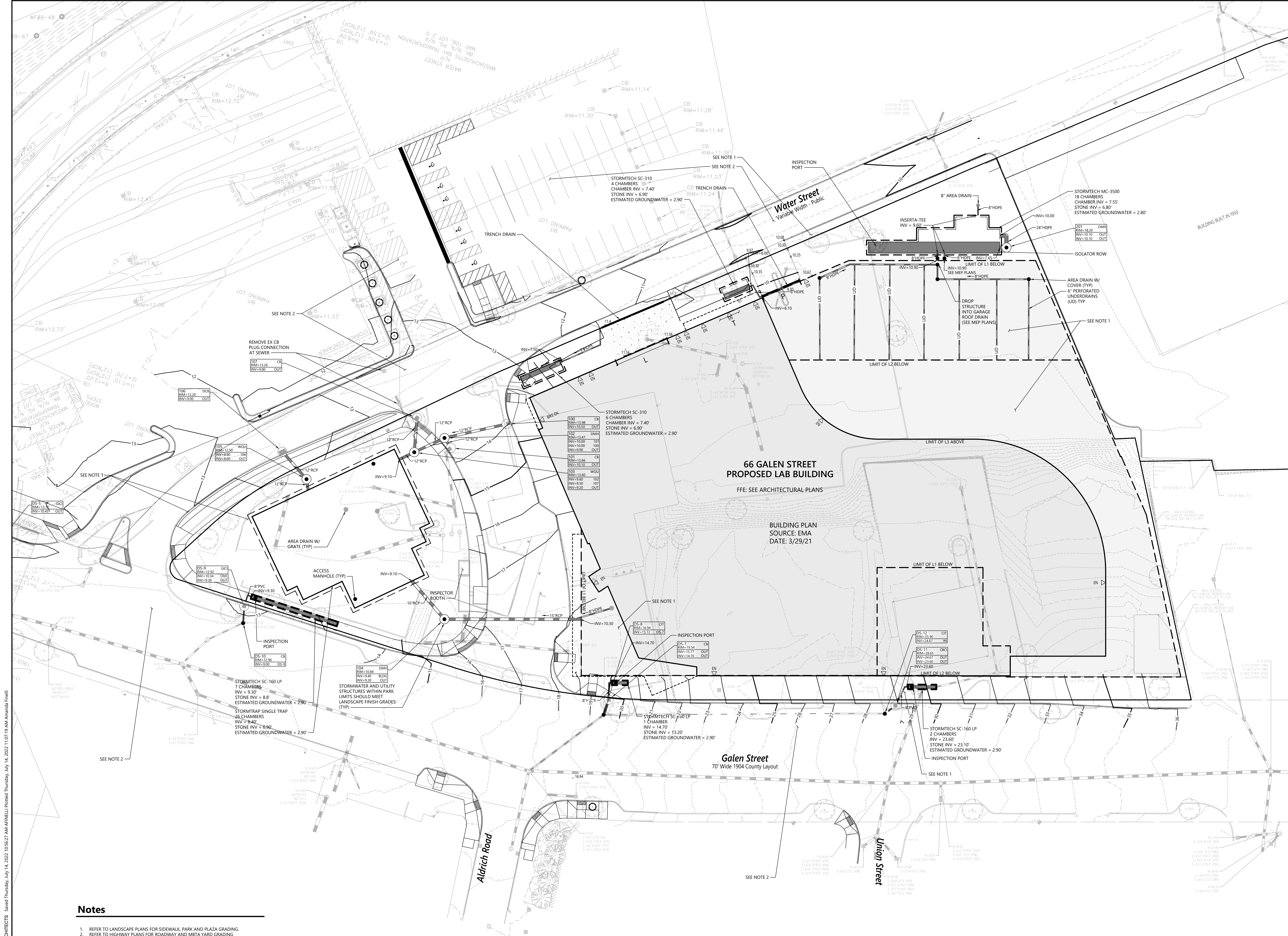
1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of WATER STREET
WATERTOWN

Showing PROPOSED CONDUIT LOCATION

Scale 1"=30' Date 04/22/2022

SHEET 3 of 3



Notes

1. REFER TO LANDSCAPE PLANS FOR SIDEWALK, PARK AND PLAZA GRADING.
2. REFER TO HIGHWAY PLANS FOR ROADWAY AND MBTA YARD GRADING AND DRAINAGE RECONSTRUCTION IN ROW.

66
Galen St.
W A T E R T O W N

Owner / Developer
Boston Development Group
93 Union Street Suite 315
Newton Center, MA 02459

Landscape Architect
Ground Inc.
285 Washington Street #G
Somerville, MA 02143

Structural Engineer
McNamara Salvia
101 Federal Street, 11th Floor
Boston, MA 02110

MEP / FP Engineer
WSP Engineers
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Civil Engineer
VHB/Vernasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Geotechnical Engineer
Tighe & Bond
120 Front Street, Suite 7
Worcester, MA 01608

Code Consultant
Jensen Hughes
1661 Worcester Road, Suite 501
Framingham, MA 01701

Vertical Transportation Consultant
VDA/Van Deusen & Associates, Inc.
100 Summer Street, Suite 1600
Boston, MA 02111

**Building Enclosure /
Waterproofing Consultant**
Simpson Gumpertz & Heger (SGH)
41 Seyon Street, #500
Waltham, MA 0253

Lighting Designer
Lam Partners
84 Sherman Street
Cambridge, MA 02140

PROJECT NUMBER: 19072

CONSTRUCTION DOCUMENTS

DATE: APRIL 09, 2021

REVISIONS:
Δ REVISIONS TO EARLY WORK FOUNDATION PACKAGE APRIL 07, 2021

Δ BULLETIN 1 MAY 13, 2021
Δ BULLETIN 5 NOV. 17, 2021
Δ BULLETIN 7 JAN. 31, 2022
Δ UT COORDINATION MAY 03, 2022

CONFORMED
SET
2022-07-14

SEE PREVIOUS ISSUES FOR REVISIONS
NOT LISTED HERE

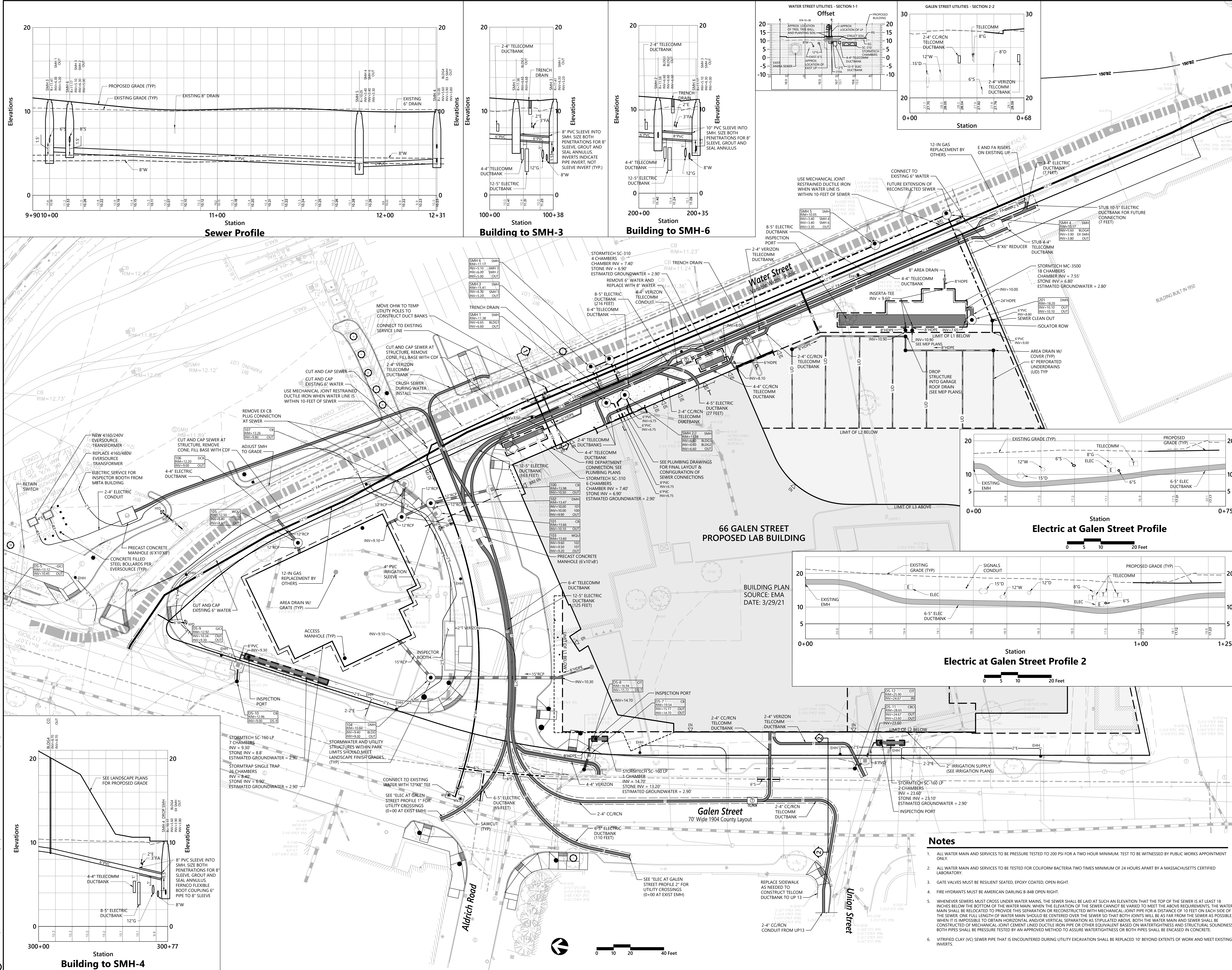
SCALE: 1" = 20'

DRAWING NAME:

GRADING AND
DRAINAGE PLAN

DRAWING NUMBER:

C-4.01



ELKUS | MANFREDI
ARCHITECTS

Address

25 DRYDOCK AVENUE
BOSTON MASSACHUSETTS 02210

tel

617.426.1300

66
Galen St.
WATERTOWN

Owner / Developer

Boston Development Group
93 Union Street Suite 315
Newton Center, MA 02459

Landscape Architect

Ground Inc.
285 Washington Street #G
Somerville, MA 02143

Structural Engineer

McNamara Salvia
101 Federal Street, 11th Floor
Boston, MA 02110

MEP / FP Engineer

WSP Engineers
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Civil Engineer

VHB/Vannasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Geotechnical Engineer

Tighe & Bond
120 Front Street, Suite 7
Worcester, MA 01608

Code Consultant

Jensen Hughes
1661 Worcester Road, Suite 501
Framingham, MA 01701

Vertical Transportation Consultant

VDA/Van Dausen & Associates, Inc.
100 Summer Street, Suite 1600
Boston, MA 02111

Building Enclosure /
Waterproofing Consultant

Simpson Gumpertz & Heger (SGH)
41 Seyon Street, #500
Waltham, MA 0253

Lighting Designer

Lam Partners
84 Sherman Street
Cambridge, MA 02140

PROJECT NUMBER:

19072

CONSTRUCTION DOCUMENTS

DATE:

APRIL 09, 2021

REVISIONS:

REVISIONS TO EARLY
WORK FOUNDATION
PACKAGE

BULLETIN 1

MAY 13, 2021

BULLETIN 5

NOV 17, 2021

BULLETIN 7

JAN 31, 2022

BULLETIN 8

FEB 25, 2022

UT COORDINATION

MAY 03, 2022

DPW RTC REVIEW

JUNE 01, 2022

CONFORMED
SET
2022-07-14

SEE PREVIOUS ISSUES FOR REVISIONS
NOT LISTED HERE

SCALE:

1" = 20'

DRAWING NAME:

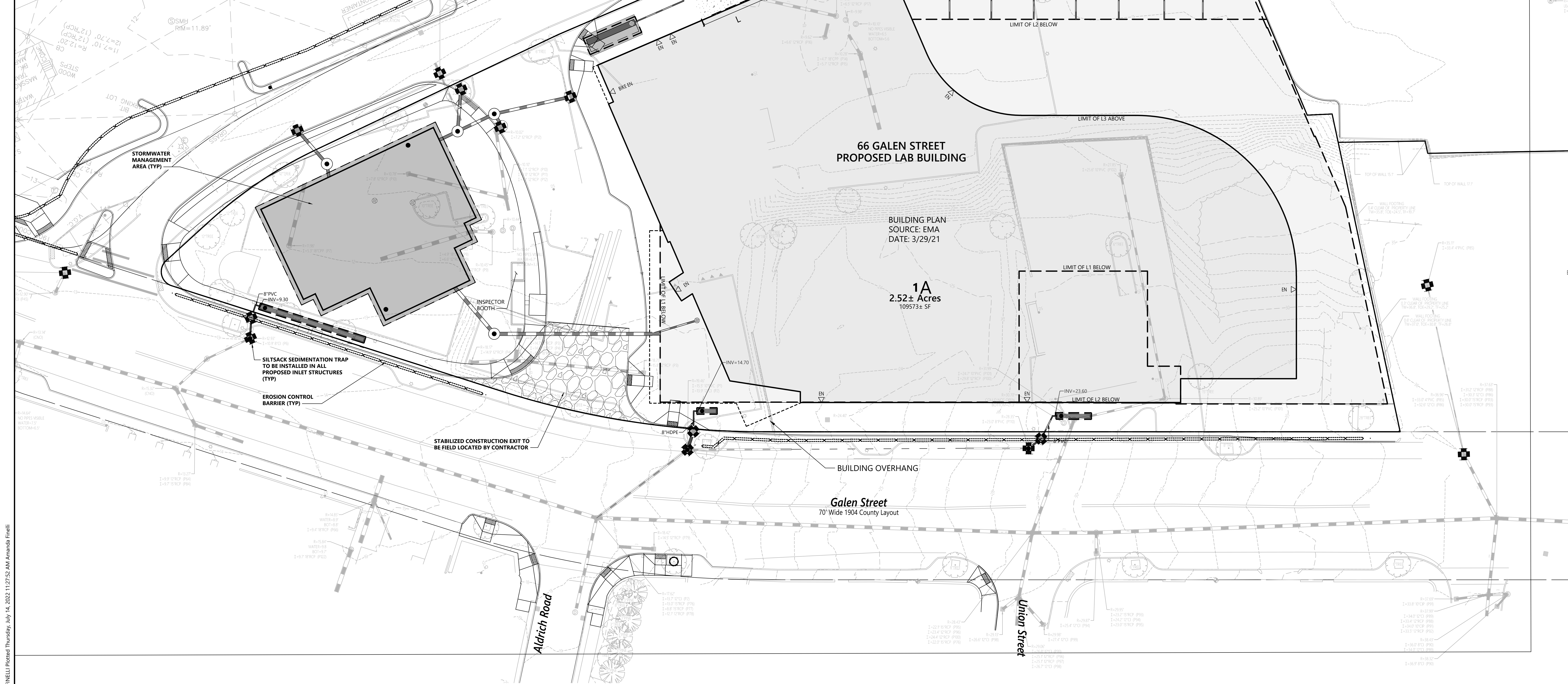
UTILITY PLAN

DRAWING NUMBER:

C-5.01

1. THE QUANTITIES AND LOCATIONS OF EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS) SHOWN ON THIS SITE MAP ARE APPROXIMATE. THIS SITE MAP, LIKE THE SWPPP, IS A DYNAMIC DOCUMENT AND MUST BE CONTINUALLY UPDATED BY THE OPERATOR(S) THROUGHOUT CONSTRUCTION. PROJECT OPERATOR(S) SHALL UPDATE SITE MAP TO SHOW FINAL LOCATIONS OF STORMWATER CONTROL MEASURES AND PROVIDE INFORMATION FOR TYPES OF CONTROLS PROVIDED. PROJECT OPERATOR(S) ARE RESPONSIBLE TO IMPLEMENT, INSPECT, MAINTAIN, REPAIR, AND MONITOR EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS).
2. STORMWATER CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED IN COMPLIANCE WITH PART 2.1 OF THE 2017 CGP.
3. EROSION AND SEDIMENT CONTROLS MUST BE IMPLEMENTED TO ADDRESS THE REQUIREMENTS OF PART 2.2 OF THE 2017 CGP.
4. IF ANY STORMWATER CONTROLS MUST BE DESIGNED (E.G. SEDIMENT BASINS OF CONVEYANCE CHANNELS), THE DESIGN DOCUMENTATION MUST BE INCLUDED IN ATTACHMENT 5 OF THE SWPPP MANUAL.
5. THE ITEMS LISTED BELOW ARE REQUIRED TO BE SHOWN ON THIS SITE MAP PER PART 7.2.4 OF THE 2017 CGP. THIS SITE MAP ALREADY INCLUDES SOME OF THE ITEMS IDENTIFIED BELOW, BUT IT IS THE RESPONSIBILITY OF THE PROJECT OPERATOR(S) TO SUPPLEMENT THE INFORMATION INCLUDED HEREON TO ENSURE THAT ALL REQUIRED ITEMS ARE PROVIDED. PROJECT OPERATOR(S) SHALL CONTINUALLY UPDATE THIS SITE PLAN TO DOCUMENT THESE ITEMS THROUGHOUT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

- BOUNDARIES OF THE AREA OF DISTURBANCE
- 50-FOOT BUFFER AROUND THE AREA OF DISTURBANCE
- IDENTIFY AREA OF STEEP SLOPE
- LOCATIONS OF STOCKPILES
- LOCATION OF CONSTRUCTION VEHICLE ACCESS
- ALL STORMWATER DISCHARGE POINTS FROM THE AREA OF DISTURBANCE (TO WATERBODIES AND TO STORM DRAIN INLETS)
- LOCATION OF ALL SURFACE WATERS WHERE THE AREA OF DISTURBANCE DISCHARGES
- THE LOCATION AND NATURE OF ALL EROSION AND SEDIMENT CONTROLS
- PERIMETER CONTROLS
- STORM DRAIN INLET CONTROLS
- A NOTE THAT INDICATES THAT THE CONTRACTOR WILL PROVIDE INFORMATION FOR ANY OTHER TYPES OF CONTROLS REQUIRED
- LOCATION OF ON-SITE AND OFF-SITE CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THIS PERMIT
- AREAS OF FEDERALLY LISTED CRITICAL HABITAT WITHIN THE SITE AND/OR AT DISCHARGE LOCATIONS
- DRAINAGE PATTERNS OF STORMWATER AND AUTHORIZED NON-STORMWATER BEFORE AND AFTER MAJOR GRADING ACTIVITIES
- LOCATION OF ALL POTENTIAL POLLUTANT GENERATING ACTIVITIES
- LOCATIONS WHERE ANY CHEMICALS WILL BE USED AND STORED



DOCUMENT USE:

THIS BASE PLAN ILLUSTRATES THE MINIMUM PERIMETER EROSION & SEDIMENTATION CONTROLS. THE SWPPP OPERATOR SHALL UPDATE THIS PLAN THROUGHOUT THE DURATION OF CONSTRUCTION TO SHOW THE LOCATIONS OF PROPOSED/CONSTRUCTED EROSION & SEDIMENTATION CONTROLS DEEMED NECESSARY TO MEET THE REQUIREMENTS OF THE NPDES CGP.

PROJECT EBS NARRATIVE:

THE PROPOSED PROJECT CONSISTS OF A 331,900 GSF LAB AND OFFICE BUILDING. THE SITE IS APPROXIMATELY 2.55 ACRES. THE PROJECT DISTURBANCE EXCEEDS 1 ACRE THEREFORE IS SUBJECT TO THE REQUIREMENTS OF THE EPA CONSTRUCTION GENERAL PERMIT.

EROSION AND SEDIMENTATION CONTROL TECHNIQUES

THE EROSION AND SEDIMENTATION CONTROLS SHOWN HEREON ARE PERIMETER MEASURES ONLY AND ARE PROVIDED AS A STARTING POINT FOR CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS REQUIRED TO PROVIDE ADDITIONAL INTERIM EROSION AND SEDIMENTATION CONTROLS, INCLUDING BUT NOT LIMITED TO THOSE LISTED BELOW. THE CONTRACTOR SHALL MANAGE EROSION AND SEDIMENTATION DURING CONSTRUCTION TO PREVENT IMPACTS TO RESOURCE AREAS, ROADWAYS, AND ADJUTING PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.

CATCH BASIN PROTECTION

NEWLY CONSTRUCTED AND EXISTING CATCH BASINS WILL BE PROTECTED WITH SILT SACKS THROUGHOUT CONSTRUCTION.

GRAVEL AND CONSTRUCTION ENTRANCE/EXIT

A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF TO THE SEDIMENT TRAP.

VEGETATIVE SLOPE STABILIZATION

STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS THERE IS SUFFICIENT SNOW COVER TO PROHIBIT IMPLEMENTATION. VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR FLATTER. ANNUAL GRASSES, SUCH AS ANNUAL RYE, WILL BE USED TO ENSURE RAPID GERMINATION AND PRODUCTION OF ROOTMASS. PERMANENT STABILIZATION WILL BE COMPLETED WITH THE PLANTING OF PERENNIAL GRASSES OR LEGUMES. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT BASINS WILL BE DESIGNED EITHER AS EXCAVATIONS OR BERMED STORMWATER DETENTION STRUCTURES (DEPENDENT ON GRADING) THAT WILL RETAIN RUNOFF FOR A SUFFICIENT PERIOD OF TIME TO ALLOW SUSPENDED SOIL PARTICLES TO SETTLE OUT PRIOR TO DISCHARGE. THESE TEMPORARY BASINS WILL BE LOCATED BASED ON CONSTRUCTION NEEDS AS DETERMINED BY THE CONTRACTOR AND OUTLET DEVICES WILL BE DESIGNED TO CONTROL VELOCITY AND SEDIMENT. POINTS OF DISCHARGE FROM SEDIMENT BASINS WILL BE STABILIZED TO MINIMIZE EROSION. AT A MINIMUM, SEDIMENTATION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE STORAGE FOR THE VOLUME OF RUNOFF GENERATED FROM A 2-YR 24-HR DESIGN STORM, OR AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINING TO THE BASIN.

STOCKPILE MANAGEMENT

SIDE SLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. STRAW BALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOE OF SLOPE.

DUST CONTROL

PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

TEMPORARY EROSION AND SEDIMENTATION CONTROL MAINTENANCE (THROUGHOUT CONSTRUCTION)

THE SITE CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS. RECORDS OF THE INSPECTIONS WILL BE PREPARED AND MAINTAINED ON-SITE BY THE CONTRACTOR.

SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED.

DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.

SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.

EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS PRACTICAL.

MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.

INFILTRATION AREA PROTECTION DURING CONSTRUCTION

FOR THE LONG-TERM FUNCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S), CARE SHALL BE TAKEN IN THE INFILTRATION AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMPs):

1. INFILTRATION AREAS SHALL NOT BE USED AS TEMPORARY CONSTRUCTION SEDIMENTATION BASINS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. IF INFILTRATION AREAS ARE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION, THEN THE SOILS SHALL BE EXCAVATED A MINIMUM OF 2' FROM THE TEMPORARY BASIN BOTTOM TO REMOVE CLOGGED SOILS.
2. STORMWATER RUNOFF FROM EXPOSED SURFACES SHALL BE DIRECTED AWAY FROM THE INFILTRATION BASIN(S)/STRUCTURE(S) DURING CONSTRUCTION.
3. CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE OF THE INFILTRATION AREAS.
4. EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S) SHALL ENSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED.

THE PERIMETER OF THE INFILTRATION AREAS SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF THE AREA FOR ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION ABILITY OF THE SYSTEM.

Owner / Developer
Boston Development Group
93 Union Street Suite 315
Newton Center, MA 02459

Landscapes Architect
Ground Inc.
285 Washington Street #G
Somerville, MA 02143

Structural Engineer
McNamara Salvia
101 Federal Street, 11th Floor
Boston, MA 02110

MEP / FP Engineer
WSP Engineers
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Civil Engineer
VHB/Vanassee Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Geotechnical Engineer
Tighe & Bond
120 Front Street, Suite 7
Worcester, MA 01608

Code Consultant
Jensen Hughes
1661 Worcester Road, Suite 501
Frammingham, MA 01701

Vertical Transportation Consultant
VDA/Van Deusen & Associates, Inc.
100 Summer Street, Suite 1600
Boston, MA 02111

Building Enclosure / Waterproofing Consultant
Simpson Gumpertz & Heger (SGH)
41 Seyon Street, #500
Waltham, MA 0253

Lighting Designer
Lam Partners
84 Sherman Street
Cambridge, MA 02140

PROJECT NUMBER: 19072

CONSTRUCTION DOCUMENTS

DATE: APRIL 09, 2021

REVISIONS:
Δ REVISIONS TO EARLY WORK FOUNDATION PACKAGE APRIL 07, 2021
Δ BULLETIN 5 NOV. 17, 2021

CONFORMED
SET
2022-07-14

SEE PREVIOUS ISSUES FOR REVISIONS NOT LISTED HERE

SCALE: 1" = 20'

DRAWING NAME:

EROSION &
SEDIMENTATION
CONTROL PLAN

DRAWING NUMBER:

C-6.01



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – NSTSAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY (WO # 6895729)

Grant of Location: 99 COOLIDGE AVENUE
August 25, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, September 13, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from NSTSAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY for consideration of a Grant of Location in Arsenal Street for the installation and maintenance of approximately 30 linear feet of conduit from manhole MH 15899 to a new conduit in Coolidge Avenue and the installation and maintenance of approximately 1,226 linear feet of conduit and three (3) new manholes, MH31566, MH31567, and MH31568, before entering the property at 99 Coolidge Avenue. This work is necessary to provide an underground Main-Tie-Main configuration electric service to 99 Coolidge Avenue due to demand constraints. Upon completion of the Department of Public Works' review, the following recommendations and conditions are being submitted for consideration by the City Council should the Grant of Location be approved for this application

Additional Conditions

- 1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
- 2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
- 3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**

4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Joanne Callender at 781-314-5054 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: June 16, 2022
APPLICANT: Eversource
WORK ORDER: WO# 6895729
LOCATION: Coolidge Avenue

Watertown Department of Public Works has reviewed the attached petition by Eversource for consideration of a Grant of Location for the following installations:

- **Arsenal Street – Install and maintain approximately 30 linear feet of conduit from manhole MH15899 to new conduit in Coolidge Avenue.**
- **Coolidge Avenue – Install and maintain approximately 1,226 linear feet of conduit and three (3) new manholes, MH31566, MH31567, and MH31568, before entering the property at 99 Coolidge Avenue.**

This work is necessary to provide an underground Main-Tie-Main configuration electric service to 99 Coolidge Avenue due to demand constraints. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.

9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



Photo 1: Location of connection to manhole MH15899 in Arsenal Street by Forge Road and Coolidge Avenue.



Photo 2: View of ongoing construction at the location where the proposed connection to 99 Coolidge Avenue.



Photo 3: View of Coolidge Avenue facing Arsenal Street where the proposed conduit and manhole will be installed.



Photo 4: View of Coolidge Ave facing Arsenal Street where the proposed conduit and manhole will be installed.

July 22, 2022

Watertown DPW
Matt Schuman
124 Orchard St,
Watertown, MA 02472

RE: Coolidge Avenue
Watertown, MA
W.O.# 6895729

Matt:

As a follow-up to concerns regarding the proposed Eversource work on Coolidge Ave.

The lines extended to 99 Coolidge are Direct Station Service lines and are built intentionally with little or no protective devices between the customer owned switchgear and out breaker at the substation.

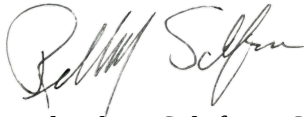
These lines are managed very differently than the typical distribution line, such as the existing infrastructure in the Overhead on the poles in the same area.

Distribution lines require switches in order to allow for sectionalizing portions of the customer load in the event of an outage. Distribution lines also use fuses to protect the main line trunk from smaller branches that feed neighborhoods and streets off the trunk. Those switches and fuses are pole-mounted and can be replaced with pad-mounted equipment but require land/space and conduit to/from devices.

The Overhead circuit could be relocated to the new duct bank being installed, however all public way transformation in the overhead would need to be relocated to either a pad-mounted location or underground. Additional space would be needed for pad mounted switches and fuses to replicate those currently located in the public way on the poles to be removed. Additionally, each parcel currently served by the overhead lines would incur cost from their own electricians who would need to re-route each service from its existing configuration to the relocated lines underground. Each customer would be required to create a Work Order with Eversource to determine the necessary steps to convert from the Overhead to Underground and what necessary licenses or easements each customer would need to provide in order to accommodate.

While the Overhead to Underground Conversion process is possible, there would be the need for significant coordination. It could utilize some of the planned civil infrastructure required for the project at 99 Coolidge but would need further engineering and input from all impacted parties to progress. In order to provide future potential underground conversions, Eversource will install 10 feet of additional duct bank as part of the 99 Coolidge project, which can be picked up and extended downstream at any time. The reason for this work is to provide underground service to 99 Coolidge Avenue.

Very truly yours,

A handwritten signature in black ink, appearing to read "Richard M. Schifone". The signature is fluid and cursive, with the first name "Richard" being more prominent and the last name "Schifone" following in a similar style.

Richard M. Schifone, Supervisor
Rights and Permits

**PETITION OF NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY
FOR LOCATION FOR CONDUITS
AND MANHOLES**

To the **City Council** of the City of **WATERTOWN** Massachusetts:

Respectfully represents **NSTAR ELECTRIC Company d/b/a Eversource Energy** a company incorporated for the transmission of electricity for lighting, heating or power, that it desires to construct a line for such transmission under the public way or ways hereinafter specified.

WHEREFORE, your petitioner prays that, after due notice and hearing as provided by law, the council may by Order grant to your petitioner permission to construct, and a location for, such a line of conduits and manholes with the necessary wires and cables therein, said conduits and manholes to be located, substantially as shown on the plan made by **T. Thibault Dated June 13, 2022** and filed herewith, under the following public way or ways of said City:

**NSTAR ELECTRIC COMPANY
d/b/a EVERSOURCE ENERGY**

**Arsenal Street - Northwesterly from MH15899, at Coolidge Ave,
install
approximately 30 feet of conduit**

**Coolidge Avenue - Northeasterly from Arsenal Street, install
approximately 1226 feet of conduit.**

**Install 3 manholes (MH31566, MH31567 and
MH31568)**

W.O.# 6895729

- The customers demand at 99 Coolidge St requires a Customer station to be built. Eversource supplies customer stations in a Main-Tie-Main configuration fed from Direct Station Service (DSS) lines which are dedicated express lines underground from Eversource stations. These lines are considered express with no protection aside from our breaker and are designed to be operated in this fashion. These lines are not run overhead in order to reduce the potential for outage. The extension of duct bank in the public way is required in order to bring the lines to the property. The adjacent overhead lines are not included as part of the scope of work to supply this customer.

BY *Richard M. Schifone*

Richard M. Schifone, Supervisor
Rights & Permits

Dated this ____ day of _____ 2022

City of **WATERTOWN** Massachusetts

Received and filed _____ 2022

**ORDER FOR LOCATION FOR CONDUITS AND MANHOLES
City of WATERTOWN**

WHEREAS, **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** has petitioned for permission to construct a line for the transmission of electricity for lighting, heating or power under the public way or ways of the City thereafter specified, and notice has been given and a hearing held on said petition as provided by law.

It is ORDERED that **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** be and hereby is granted permission to construct and a location for, such a line of conduits and manholes with the necessary wires and cables therein under the following public way or ways of said City:

Arsenal Street - Northwesternly from MH15899, at Coolidge Ave, install approximately 30 feet of conduit

Coolidge Avenue - Northeasterly from Arsenal Street, install approximately 1226 feet of conduit.

Install 3 manholes (MH31566, MH31567 and MH31568)

W.O.# 6895729

- The customers demand at 99 Coolidge St requires a Customer station to be built. Eversource supplies customer stations in a Main-Tie-Main configuration fed from Direct Station Service (DSS) lines which are dedicated express lines underground from Eversource stations. These lines are considered express with no protection aside from our breaker and are designed to be operated in this fashion. These lines are not run overhead in order to reduce the potential for outage. The extension of duct bank in the public way is required in order to bring the lines to the property. The adjacent overhead lines are not included as part of the scope of work to supply this customer.
-

All construction work under this Order shall be in accordance with the following conditions:

1. Conduits and manholes shall be located as shown on the plan made by **T. Thibault, dated June 13, 2022** on the file with said petition.
2. Said shall comply with the requirements of existing by-laws and such as may hereafter be adopted governing the construction and maintenance of conduits and manholes.
3. Company All work shall be done to the satisfaction of the town council or such officer or officers as it may appoint to supervise the work.

1 _____
2 _____
3 _____
4 _____
5 _____

City Council
the City of
WATERTOWN

CERTIFICATE

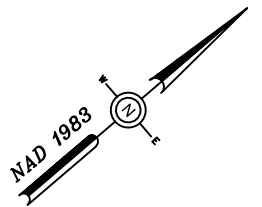
We hereby certify that the foregoing Order was adopted after due notice and a public hearing as prescribed by Section 22 of Chapter 166 of the General Laws (Ter. Ed.), and any additions thereto or amendments thereof, to wit: after written notice of the time and place of the hearing mailed at least seven days prior to the date of the hearing by the council to all owners of real estate abutting upon that part of the way or ways upon, along or across which the line is to be constructed under said Order, as determined by the last preceding assessment for taxation, and a public hearing held on the _____ day of _____ 2022 at _____ in said City.

1	_____	
2	_____	City Council
3	_____	the City of
4	_____	WATERTOWN
5	_____	

CERTIFICATE

I hereby certify that the foregoing are true copies of the Order of the **City Council** of the City of **WATERTOWN**, Massachusetts, duly adopted on the _____ day of _____, 2022 and recorded with the records of location Orders of said City, Book _____, Page _____ and of the certificate of notice of hearing thereon required by Section 22 of Chapter 166 of the General Laws (Ter.Ed.) and any additions thereto or amendments thereof, as the same appear of record.

Attest: _____
Clerk of the City of **WATERTOWN**, Massachusetts



1509 1 0
15 ARLINGTON ST
WATERTOWN
N/F
MASREAL COMPANY INC

INSTALL 6 - 5" PVC PIPES
TYPE EB IN CONCRETE
SECTION 2 FIG. 5 332'±

COOLIDGE AVE

INSTALL CONCRETE MANHOLE
6' x 8' x 10' DEEP
SECTION 3 FIG. 3 MH31566

INSTALL 6 - 5" PVC PIPES
TYPE EB IN CONCRETE
SECTION 2 FIG. 5 116'±

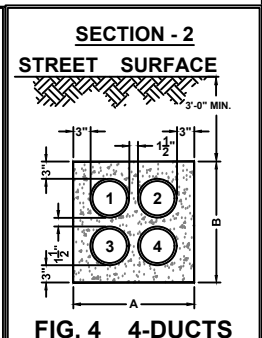
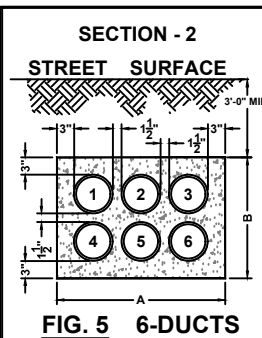
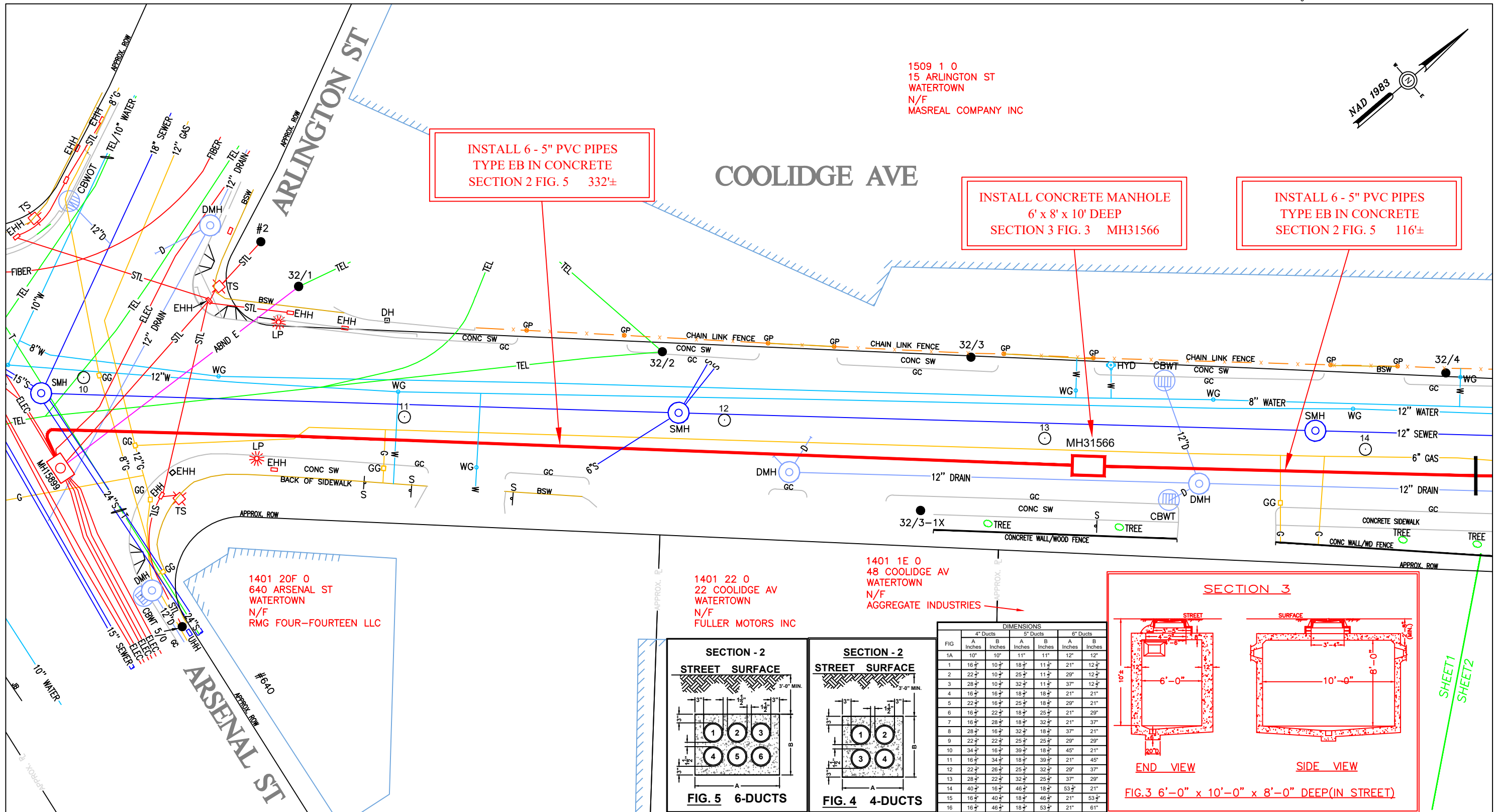
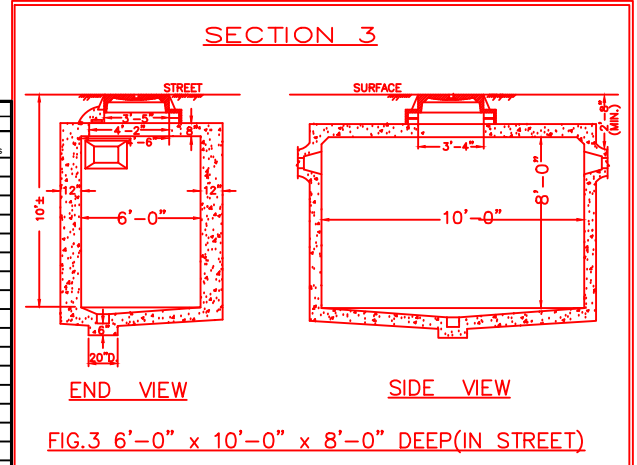
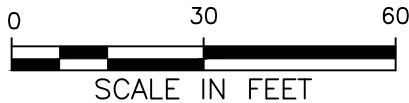


FIG	4" Ducts				6" Ducts			
	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches
1A	10"	10"	11"	11"	12"	12"		
1	16 1/2"	10 1/2"	18 1/2"	11 1/2"	21"	12 1/2"		
2	22 1/2"	10 1/2"	25 1/2"	11 1/2"	29"	12 1/2"		
3	28 1/2"	10 1/2"	32 1/2"	11 1/2"	37"	12 1/2"		
4	16 1/2"	16 1/2"	18 1/2"	18 1/2"	21"	21"		
5	22 1/2"	16 1/2"	25 1/2"	18 1/2"	29"	21"		
6	16 1/2"	22 1/2"	18 1/2"	25 1/2"	21"	29"		
7	16 1/2"	28 1/2"	18 1/2"	32 1/2"	21"	37"		
8	28 1/2"	16 1/2"	32 1/2"	18 1/2"	37"	21"		
9	22 1/2"	22 1/2"	25 1/2"	25 1/2"	29"	29"		
10	34 1/2"	16 1/2"	39 1/2"	18 1/2"	45"	21"		
11	16 1/2"	34 1/2"	18 1/2"	39 1/2"	21"	45"		
12	22 1/2"	28 1/2"	25 1/2"	32 1/2"	29"	37"		
13	28 1/2"	22 1/2"	32 1/2"	25 1/2"	37"	29"		
14	40 1/2"	16 1/2"	46 1/2"	18 1/2"	53"	21"		
15	16 1/2"	40 1/2"	18 1/2"	46 1/2"	21"	53"		
16	16 1/2"	46 1/2"	18 1/2"	53"	21"	61"		



NOTE:
ALL TRENCHES PARALLEL TO AND WITHIN
5 FEET OF THE CURB LINE SHALL HAVE
THE PAVEMENT RESTORED FROM THE OUTER
LINE OF THE TRENCH TO THE CURB LINE



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC
COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS,
EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR
INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION, OR IN RELIANCE UPON IT, TO
THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO
RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT
TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION,
EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE
INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 153-22

Ward #

Work Order # 6895729

Surveyed by: BP/GR

Research by: JC/LM

Plotted by: LM

Proposed Structures: LM

Approved: T THIBAUT

P#

NSTAR EVERSOURCE
d/b/a

1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of COOLIDGE AVE

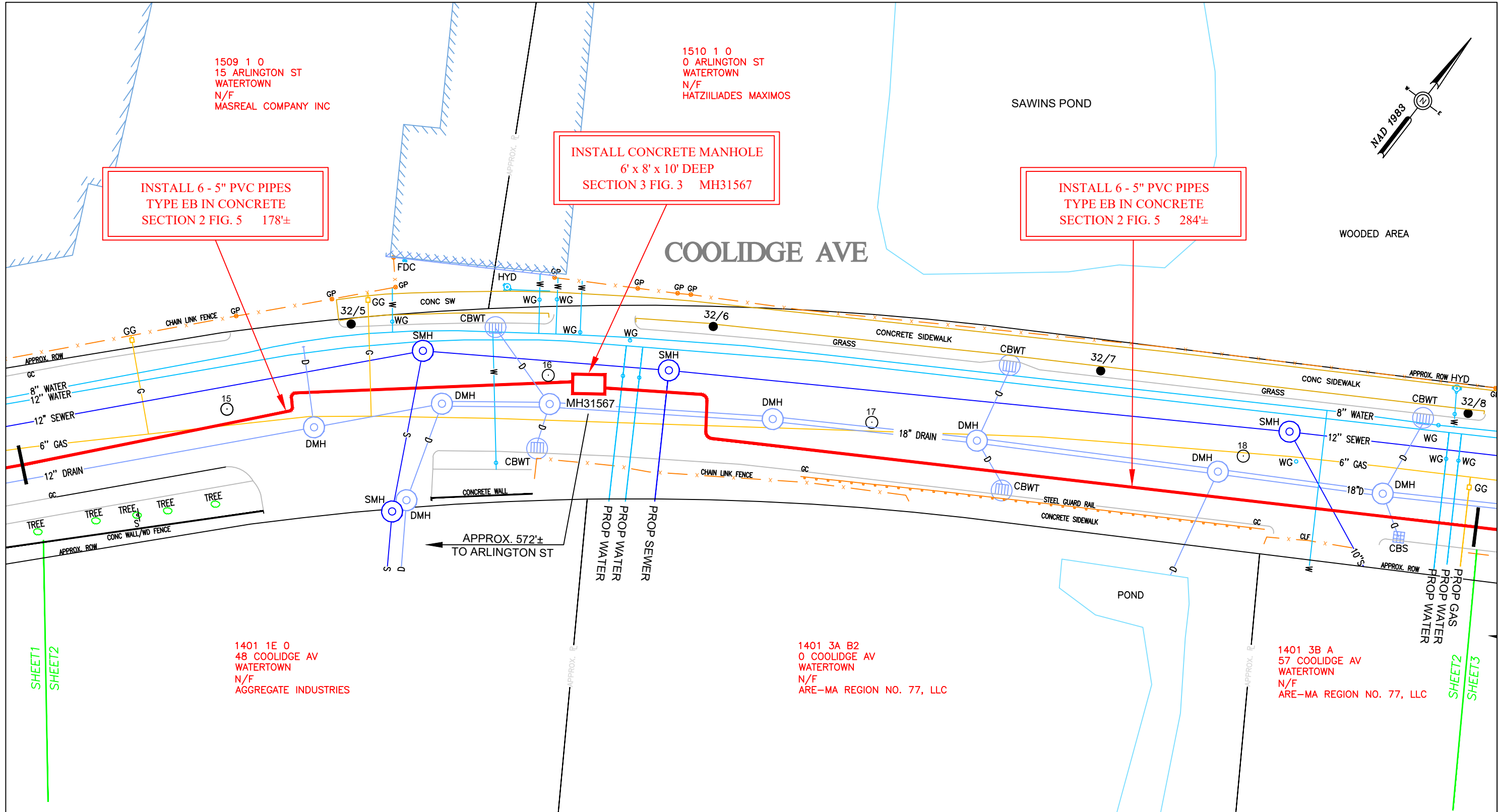
WATERTOWN

Showing PROPOSED CONDUIT & NEW MANHOLES LOCATION

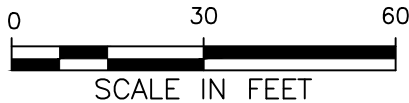
Scale 1"=30'

Date JUNE 13, 2022

SHEET 1 of 3



NOTE:
ALL TRENCHES PARALLEL TO AND WITHIN
5 FEET OF THE CURB LINE SHALL HAVE
THE PAVEMENT RESTORED FROM THE OUTER
LINE OF THE TRENCH TO THE CURB LINE



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC
COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS,
EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR
INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION, OR IN RELIANCE UPON IT, TO
THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO
RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT
TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION,
EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE
INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 153-22

Ward #

Work Order # 6895729

Surveyed by: BP/GR

Research by: JC/LM

Plotted by: LM

Proposed Structures: LM

Approved: T THIBAUT

P#

NSTAR EVERSOURCE
ELECTRIC
d/b/a

1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of COOLIDGE AVE

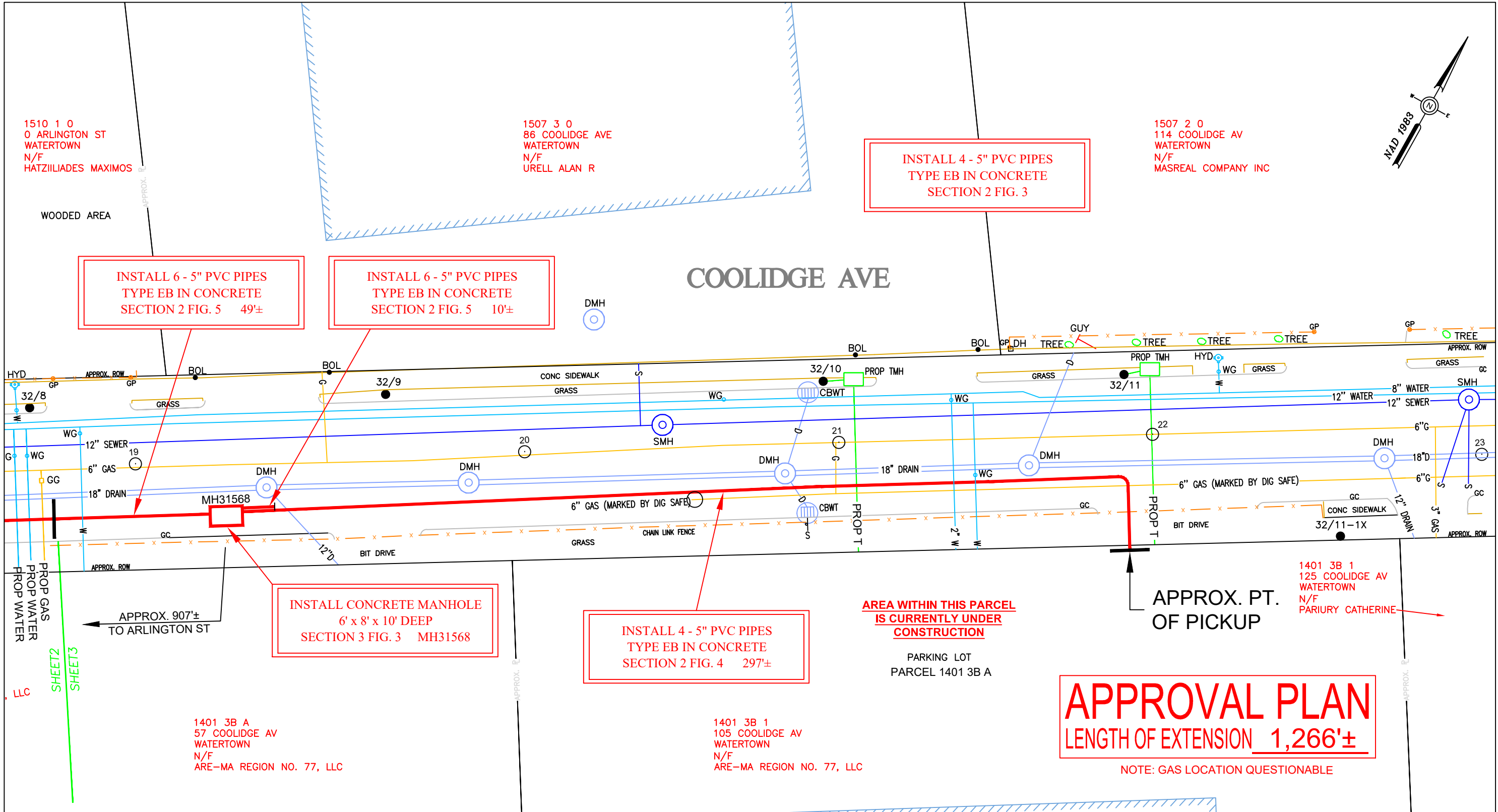
WATERTOWN

Showing PROPOSED CONDUIT & NEW MANHOLES LOCATION

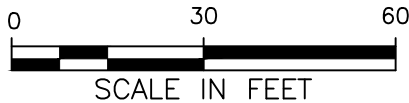
Scale 1"=30'

Date JUNE 13, 2022

SHEET 2 of 3



NOTE:
ALL TRENCHES PARALLEL TO AND WITHIN
5 FEET OF THE CURB LINE SHALL HAVE
THE PAVEMENT RESTORED FROM THE OUTER
LINE OF THE TRENCH TO THE CURB LINE



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC
COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS,
EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR
INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION, OR IN RELIANCE UPON IT, TO
THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO
RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT
TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION,
EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE
INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 153-22
Ward #
Work Order # 6895729
Surveyed by: BP/GR
Research by: JC/LM
Plotted by: LM
Proposed Structures: LM
Approved: T THIBAUT
P#

NSTAR EVERSOURCE
d/b/a
1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of COOLIDGE AVE
WATERTOWN

Showing PROPOSED CONDUIT & NEW MANHOLES LOCATION

Scale	1"=30'	Date	JUNE 13, 2022
SHEET	3 of 3		



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – EVERSOURCE GROUP

Grant of Location: COOLIDGE AVENUE AND GROVE STREET
WO #5926142
August 31, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, September 13, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from Eversource for consideration of a Grant of Location for Grove Street by installing Westerly from pole 63/26 and approximately 180 feet northwest of Coolidge Avenue approximately 48 ± feet of conduit under Grove Street to a property located at 150 Coolidge Avenue. This work is necessary to provide electric service upgrade to 150 Coolidge Avenue. Upon completion of the Department of Public Works review, the following recommendations and conditions for consideration by the City Council will be required should the Grant of Location be approved for this application.

Additional Conditions

- 1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
- 2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
- 3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The**

City of Watertown is not a member of Dig Safe and must be notified separately.

4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Mark Pavone at 508-530-8681 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: August 29, 2022
APPLICANT: Eversource Energy
WORK ORDER: WO# 5926142
LOCATION: Coolidge Ave and Grove Street

Watertown Department of Public Works has reviewed the attached petition by Eversource for consideration of a Grant of Location for the following installations:

- **Grove Street – Westerly from pole 63/26 and approximately 180 feet northwest of Coolidge Avenue, install approximately 48 ± feet conduit under Grove Street to a property located at 150 Coolidge Avenue.**

This work is necessary to provide an electrical service upgrade to 150 Coolidge Avenue. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Standard Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



Photo 1: View from building side of Grove Street



Photo 2: View from cemetery side of Grove Street

**PETITION OF NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY
FOR LOCATION FOR CONDUITS
AND MANHOLES**

To the **City Council** of the City of **WATERTOWN** Massachusetts:

Respectfully represents **NSTAR ELECTRIC Company d/b/a Eversource Energy** a company incorporated for the transmission of electricity for lighting, heating or power, that it desires to construct a line for such transmission under the public way or ways hereinafter specified.

WHEREFORE, your petitioner prays that, after due notice and hearing as provided by law, the council may by Order grant to your petitioner permission to construct, and a location for, such a line of conduits and manholes with the necessary wires and cables therein, said conduits and manholes to be located, substantially as shown on the plan made by **T. Thibault Dated July 26, 2022**, and filed herewith, under the following public way or ways of said City:

**Grove Street Westerly from pole 63/26, approximately 180
feet northwest of Coolidge Avenue, a distance of
approximately 48 ± feet – conduit**

w/o #5926142

**NSTAR ELECTRIC COMPANY
d/b/a EVERSOURCE ENERGY**

BY *Richard M. Schifone*

Richard M. Schifone, Supervisor
Rights & Permits

Dated this 26th day of July 2022

City of **WATERTOWN** Massachusetts

Received and filed _____ 2022

ORDER FOR LOCATION FOR CONDUITS AND MANHOLES
City of WATERTOWN

WHEREAS, **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** has petitioned for permission to construct a line for the transmission of electricity for lighting, heating or power under the public way or ways of the City thereafter specified, and notice has been given and a hearing held on said petition as provided by law.

It is ORDERED that **NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY** be and hereby is granted permission to construct and a location for, such a line of conduits and manholes with the necessary wires and cables therein under the following public way or ways of said City:

Grove Street - Westerly from pole 63/26, approximately 180 feet northwest of Coolidge Avenue, a distance of approximately 48 ± feet – conduit

w/o #5926142

All construction work under this Order shall be in accordance with the following conditions:

1. Conduits and manholes shall be located as shown on the plan made by **T. Thibault, dated July 26, 2022**, on the file with said petition.
2. Said Company shall comply with the requirements of existing by-laws and such as may hereafter be adopted governing the construction and maintenance of conduits and manholes.
3. All work shall be done to the satisfaction of the city council or such officer or officers as it may appoint to supervise the work.

1	_____	
2	_____	City Council
3	_____	the City of
4	_____	WATERTOWN
5	_____	

CERTIFICATE

We hereby certify that the foregoing Order was adopted after due notice and a public hearing as prescribed by Section 22 of Chapter 166 of the General Laws (Ter. Ed.), and any additions thereto or amendments thereof, to wit: after written notice of the time and place of the hearing mailed at least seven days prior to the date of the hearing by the council to all owners of real estate abutting upon that part of the way or ways upon, along or across which the line is to be constructed under said Order, as determined by the last preceding assessment for taxation, and a public hearing held on the _____ day of _____ 2022 at _____ in said City.

1	_____	
2	_____	City Council
3	_____	the City of
4	_____	WATERTOWN
5	_____	

CERTIFICATE

I hereby certify that the foregoing are true copies of the Order of the **City Council** of the City of **WATERTOWN**, Massachusetts, duly adopted on the _____ day of _____, 2022 and recorded with the records of location Orders of said City, Book _____, Page _____ and of the certificate of notice of hearing thereon required by Section 22 of Chapter 166 of the General Laws (Ter.Ed.) and any additions thereto or amendments thereof, as the same appear of record.

Attest: _____
Clerk of the City of **WATERTOWN**, Massachusetts

1622 2 0

GROVE ST

N/F

PROPRIETORS OF THE CEMETERY OF
MT AUBURN STREETAPPROX. 180'
TO COOLIDGE AVE

STONE RETAINING WALL

FENCE OVER GR

INSTALL 2 - 4" PVC PIPES
TYPE EB IN CONCRETE
SECTION 2 FIG. 1GUY
63/26

48±

10" WATER

10" WATER

10" SEWER

10" SEWER

DRAIN
WG

DRAIN

DMH

DRAIN

DRAIN

GROVE ST

GC

GC

S

SIDEWALK (BIT.)

SIDEWA

GC

PARKING (BIT.)

PARKING (BIT.)

SECTION - 2

STREET SURFACE

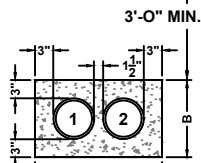
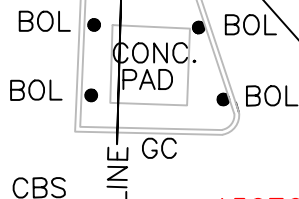


FIG. 1 2-DUCTS

APPROX. PT.
OF PICKUP1507 9 4CA
215 GROVE ST
N/FBUCKINGHAM BROWNE
& NICHOLS SCHOOL

150760

150 COOLIDGE AV

N/F

EP 150 COOLIDGE AVE REALTY LLC
C/O EDGEWATER PROPERTIES LLC

FIG	4" Ducts		5" Ducts		6" Ducts	
	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches
1A	10"	10"	11"	11"	12"	12"
1	16 1/2"	10 1/2"	18 1/2"	11 1/2"	21"	12 1/2"
2	22 1/2"	10 1/2"	25 1/2"	11 1/2"	29"	12 1/2"
3	28 1/2"	10 1/2"	32 1/2"	11 1/2"	37"	12 1/2"
4	16 1/2"	16 1/2"	18 1/2"	18 1/2"	21"	21"
5	22 1/2"	16 1/2"	25 1/2"	18 1/2"	29"	21"
6	16 1/2"	22 1/2"	18 1/2"	25 1/2"	21"	29"
7	16 1/2"	28 1/2"	18 1/2"	32 1/2"	21"	37"
8	28 1/2"	16 1/2"	32 1/2"	18 1/2"	37"	21"
9	22 1/2"	22 1/2"	25 1/2"	25 1/2"	29"	29"
10	34 1/2"	16 1/2"	39 1/2"	18 1/2"	45"	21"
11	16 1/2"	34 1/2"	18 1/2"	39 1/2"	21"	45"
12	22 1/2"	26 1/2"	25 1/2"	32 1/2"	29"	37"
13	28 1/2"	22 1/2"	32 1/2"	25 1/2"	37"	29"
14	40 1/2"	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"
15	16 1/2"	40 1/2"	18 1/2"	46 1/2"	21"	53 1/2"
16	16 1/2"	46 1/2"	18 1/2"	53 1/2"	21"	61"



BY YOUR USE OF THE INFORMATION CONTAINED IN THIS MAP, YOU AGREE THAT NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS GIVEN WITH RESPECT TO THE INFORMATION. NEITHER NSTAR ELECTRIC COMPANY, NSTAR GAS COMPANY NOR ITS PARENTS, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES OR AGENTS (COLLECTIVELY THE "NSTAR ENTITIES") SHALL BE LIABLE FOR ANY LOSS OR INJURY CAUSED IN WHOLE OR IN PART BY USE OF THIS INFORMATION OR IN RELIANCE UPON IT, TO THE MAXIMUM EXTENT ALLOWED BY LAW, YOU AGREE BY YOUR ACCEPTANCE OF THE INFORMATION TO RELEASE, INDEMNIFY AND HOLD THE NSTAR ENTITIES HARMLESS FROM ANY SUCH LOSS OR INJURY.

THE INFORMATION MAY NOT REPRESENT A SURVEY, MAY NOT BE THE MOST COMPLETE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION, EITHER EXPRESSED OR IMPLIED. UNAUTHORIZED ATTEMPTS TO MODIFY THE INFORMATION OR USE THE INFORMATION FOR OTHER THAN ITS INTENDED PURPOSES ARE PROHIBITED.

MASS. LAW

REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES
BEFORE DIGGING BY ANYONE. CALL DIG-SAFE 1-888-344-7233

C# 195-22

Ward #

Work Order # 5926142

Surveyed by: SJ/GR

Research by: JC

Plotted by: TL

Proposed Structures: TL

Approved: T THIBAUT

P#

NSTAR
ELECTRIC
d/b/a

1165 MASSACHUSETTS AVE. DORCHESTER, MASS. 02125

Plan of GROVE STREET, WATERTOWN

Showing PROPOSED CONDUIT LOCATION

Scale 1"=20'

Date JULY 26, 2022

SHEET 1 of 1



Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – ZAYO GROUP

Grant of Location: NICHOLS AVENUE TO MELENDY AVENUE
August 25, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, September 13, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from Zayo Group for consideration of a Grant of Location for the following installations

- Underground Grant of Location – Nichols Avenue – Install and maintain approximately 10 linear feet of one (1) 4-inch communication conduit from utility pole #100/1 to an existing Zayo conduit capped with the roadway.
- Aerial Grant of Location – Nichols Avenue to Melendy Avenue – Install and maintain overhead wire from pole #100/2 and along Nichols Avenue to pole #100/10
- This Grant of Location is in conjunction with another request for along Melendy Avenue

This work is necessary to provide a communication service to the existing data center at 486 Arsenal Way. Upon completion of the Department of Public Works review, the following recommendations and conditions for consideration by the City Council will be required should the Grant of Location be approved for this application.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.

3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Mark Pavone at 508-530-8681 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: June 22, 2022
APPLICANT: Zayo Group
WORK ORDER: WO#
LOCATION: Nichols Avenue to Melendy Avenue

Watertown Department of Public Works has reviewed the attached petition by National Grid for consideration of a Grant of Location for the following installations:

- **Underground Grant of Location - Nichols Avenue – Install and maintain approximately 10 linear feet of one (1) 4-inch communication conduit from utility pole #100/1 to an existing Zayo conduit capped within the roadway.**
- **Aerial Grant of Location – Nichols Avenue and Melendy Avenue – install and maintain overhead wire from pole #100/1 across Nichols Avenue to pole #100/2 and along Nichols Avenue to pole # 100/10.**
- **This Grant of Location is in conjunction with another request for a Grant of Location along Melendy Avenue.**

This work is necessary to provide a communications service to the existing data center at 486 Arsenal Way. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Standard Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.

7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



View of the proposed location of connection from utility pole #100/1 to the existing conduit located within the roadway.

PETITION OF ZAYO FOR LOCATION FOR CONDUITS AND MANHOLES

To the City Council for the City of Watertown, Massachusetts:

Respectfully represents **Zayo Group, LLC.**, a company incorporated for the distribution of telecommunications services, that it desires to construct a line for such telecommunications under the public way or ways hereinafter specified.

22 Nichols Ave: Starting at Utility Pole #100/1, trench and install 10' +/- of (1) 4" communication conduit in a northerly direction to existing Zayo conduit capped in the roadway.

Wherefore, your petition prays that, after due notice and hearing as provided by law, the City Council may by Order grant your petitioner permission to construct, and a location for, such a line of conduits and manholes with the necessary wires and cables therein, said conduits and manholes to be located, substantially as shown on the plan made for Zayo, dated May 18, 2022 and filed here with, under the following public way or ways of said Town of Watertown.

Zayo Group, LLC

By: Chris Cremers

Chris Cremers
OSP Project Specialist

Dated this May 26, 2022

City of Watertown, Massachusetts

Received and filed _____, 2022

ORDER FOR CONDUIT LOCATION

In the City Council for the City of Watertown, Massachusetts.

ORDERED:

That permission be and hereby is granted to **Zayo Group, LLC.**, to lay and maintain underground conduits and manholes, with the wires and cables to be placed therein, under the surface of the following public way or ways as requested in petition of said Company dated May 26, 2022

22 Nichols Ave: Starting at Utility Pole #100/1, trench and install 10' +/- of (1) 4" communication conduit in a northerly direction to existing Zayo conduit capped in the roadway.

Substantially as shown on plan marked – Zayo Proposed Cable Installation at 22 Nichols Ave Watertown, MA, filed with said petition.

Also, that permission be and hereby is granted said Zayo to lay and maintain underground conduits, manholes, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as it may desire for distributing purposes.

The foregoing permission is subject to the following conditions:

1. The conduits and manholes shall be of such materials and construction and all work done in such manner as to be satisfactory to the City Council or to such officers as it may appoint to the supervision of the work, and a plan showing the location of conduits constructed shall be filed with the Town when the work is completed.
2. Said Company shall indemnify and save the City harmless against all damages, costs, and expense whatsoever to which the Town may be subjected in consequence of the acts or neglect of said Company, its agents, or servants, or in any manner arising from the rights and privileges granted it by the Town.
3. In addition, said Company shall, before a public way is disturbed for the laying of its wire or conduits, execute its bond in a penal sum of One Hundred Thousand Dollars (\$100,000) (reference being had to the bond already on file with said City) conditioned for the faithful performance of its duties under this permit.
4. Said Company shall comply with the requirements of existing by-laws, and such as may hereafter be adopted governing the construction and maintenance of conduits and wires, so far as the same are not inconsistent with the laws of the Commonwealth.

I hereby certify that the foregoing order was adopted at a meeting of the City Council for the City of Watertown, Massachusetts, held on the _____ day of _____ 2022.

City Council President

(over)

We hereby certify that on _____, 2022, at _____ o'clock _____ M., at Watertown, Massachusetts a public hearing was held on the petition of Zayo for permission to lay and maintain underground conduits, manholes and connections, with the wires and cables to be placed therein, described in the order herewith recorded, that we mailed at least seven days before said hearing a written notice the time and place of said hearing to each of the owners of real estate determined by the last preceding assessment for taxation along the ways parts of ways upon which the Company is permitted to construct the lines said Company under said order. And that thereupon said order was duly adopted.

City Council; Watertown, Massachusetts

CERTIFICATE

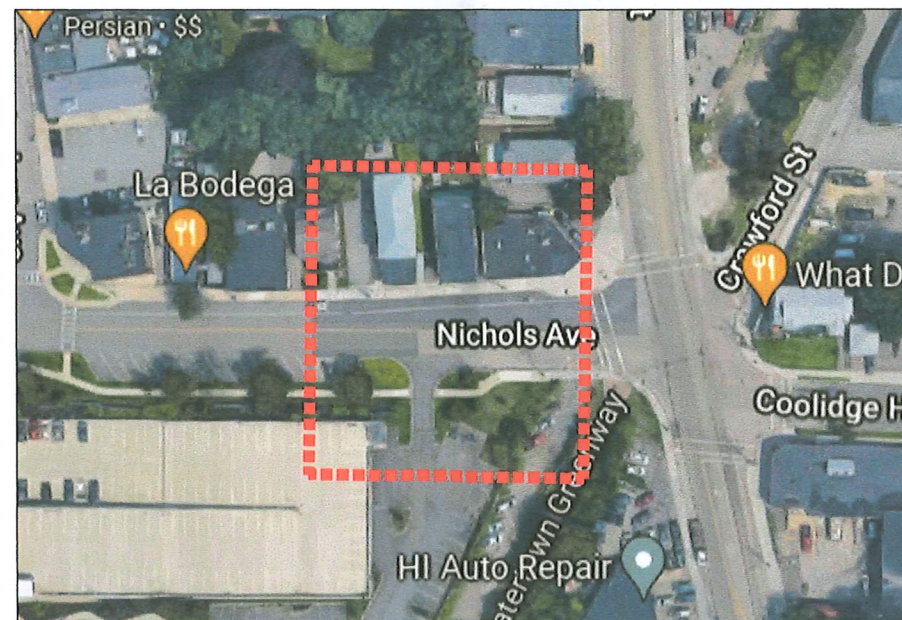
I hereby certify that the foregoing is a true copy of a location order, and certificate of hearing with the notice adopted by the City Council for the City of Watertown, Massachusetts, on the _____ day of _____ 2022, recorded with the records of location orders of said Town, Book _____, Page _____. This certified copy is made under the provision of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:

City Clerk



**PROPOSED CONDUIT INSTALLATION
AT
22 NICHOLS AVE
WATERTOWN, MA**



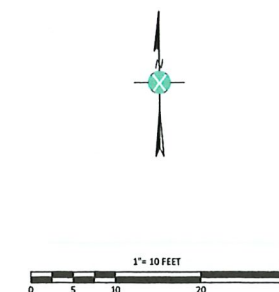
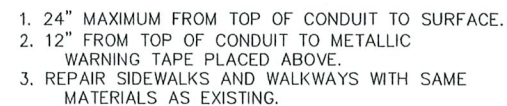
LOCUS
N.T.S

INDEX OF DRAWING

SHEET NO.	DESCRIPTION
--	COVER SHEET
01	PROPOSED CONDUIT INSTALLATION

AXIS
ENGINEERING GROUP
201 Boston Post Rd West – Suite 100
Marlborough, MA 01752
(774) 556-2924 www.axisgroup.com

1. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHOULD MAINTAIN A SEPARATION OF 18 INCHES MIN. WHEN CROSSING EXISTING WATER FACILITIES.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
5. THE CONTRACTOR SHALL NOT DISTURB PUBLIC TREES AND SHRUBS.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE 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 SANDED.
9. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY LINES 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 MUNICIPAL TRAFFIC DEPARTMENT.
11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES 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 THERMOPLASTIC MARKINGS.



LEGEND			
	ELECTRIC POLE		STREET LIGHT
	JOINT UTILITY POLE		ELECTRIC HH
	LAMP POST		TEL HH
	TRAFFIC LIGHT		CATV HH
	SEWER MH		COMM PEDESTAL
	DRAIN MH		IRRIGATION VALVE
	TELEPHONE MH		WATER METER
	ELECTRIC MH		GAS METER
	CATV MH		SEWER GATE
	WATER MH		GAS GATE
	PAG		WATER GATE
	BUSH/SHRUB		HYDRANT
	RIGHT OF WAY		MAIL BOX
	CULVERT		STONE BOUND
	GUARD RAIL		PARKING METER(S)
	FENCE		STEEL POST
	ELECTRIC VAULT		SIGN POLE
	TRAFFIC HH		UG CABLE MARKER
	PROPOSED HH		TRANSFORMER
	PROPOSED CONDUIT		CATCH BASIN

NOTE:
EXISTING UTILITIES SHOWN ARE APPROXIMATE AND
NOT WARRANTED TO BE CORRECT. THE
CONTRACTOR SHALL VERIFY THE LOCATION OF ALL
PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING
ANY EXCAVATION.



**CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
72 HOURS NOTICE REQUIRED.
ENTER 1-888-DIG-SAFE**

PREPARED BY:

AXIS
ENGINEERING GROUP

PREPARED FOR

zayo

REV #	DESCRIPTION	DATE

TITLE:

PROPOSED CONDUIT INSTALLATION
22 NICHOLS AVE
WATERTOWN, MA

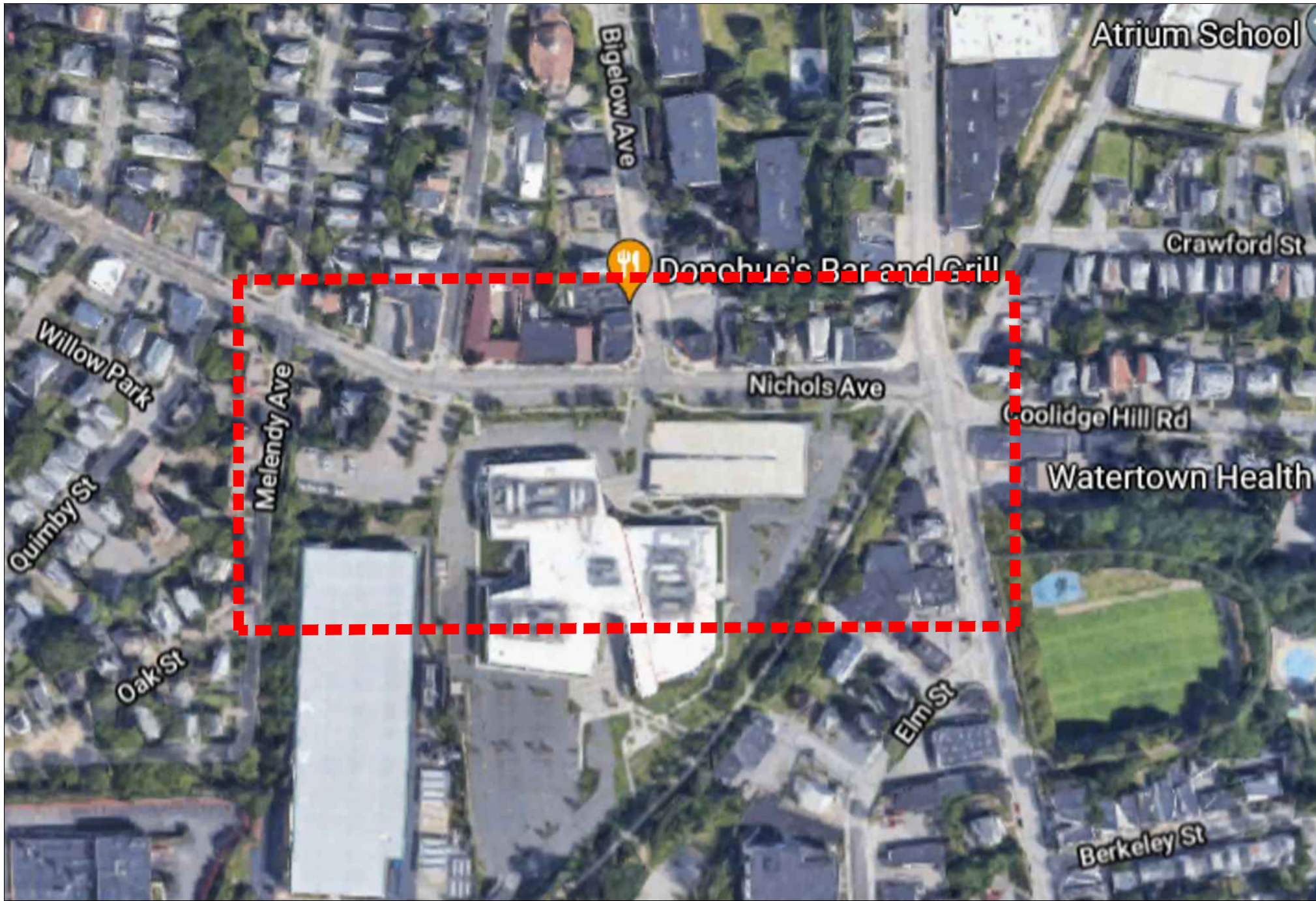
SUBMITTED BY: AXIS ENGINEERING	PRINT NO: 1 OF 1
---------------------------------------	-------------------------

DRAWN BY: MB	SCALE: 1" = 10'
--------------	-----------------

DATE: 5/18/2022	AS-BUILT:
-----------------	-----------



PROPOSED AERIAL CABLE INSTALLATION FOR EVOQUE DATA CENTER
AT
486 ARSENAL WAY
WATERTOWN, MA

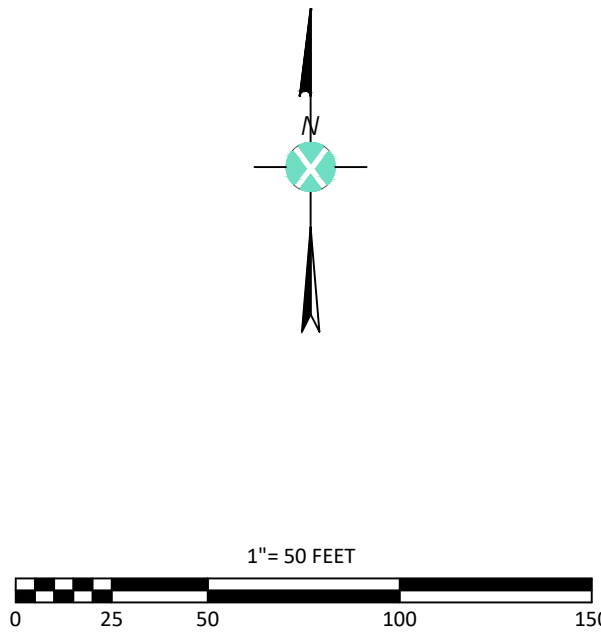


LOCUS
N.T.S

INDEX OF DRAWING

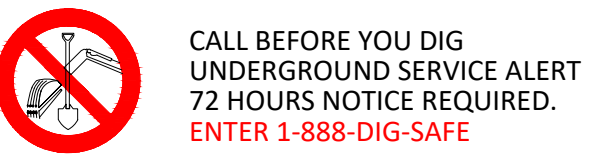
SHEET NO.	DESCRIPTION
--	COVER SHEET
01	PROPOSED AERIAL CABLE INSTALLATION

LEGEND	
	EXISTING AERIAL CABLE
	PROPOSED AERIAL CABLE
	PROPOSED UNDERGROUND CABLE
	JOINT OWNED POLE
	SOLE OWNED TEL POLE
	SOLE OWNED ELEC POLE
	SPAN LENGTH
	SLACK COIL



LEGEND			
	ELECTRIC POLE		STREET LIGHT
	JOINT UTILITY POLE		ELECTRIC HH
	LAMP POST		TEL HH
	TRAFFIC LIGHT		CATV HH
	SEWER MH		COMM PEDESTAL
	DRAIN MH		IRRIGATION VALVE
	TELEPHONE MH		WATER METER
	ELECTRIC MH		GAS METER
	CATV MH		SEWER GATE
	WATER MH		GAS GATE
	PAG		WATER GATE
	BUSH/SHRUB		HYDRANT
	RIGHT OF WAY		MAIL BOX
	CULVERT		STONE BOUND
	GUARD RAIL		PARKING METER(S)
	FENCE		STEEL POST
	ELECTRIC VAULT		SIGN POLE
	TRAFFIC HH		UG CABLE MARKER
	PROPOSED HH		TRANSFORMER
	PROPOSED CONDUIT		CATCH BASIN

NOTE:
EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.



PREPARED BY:

PREPARED FOR:

REV #	DESCRIPTION	DATE

TITLE:
PROPOSED AERIAL CABLE INSTALLATION
486 ARSENAL WAY
WATERTOWN, MA

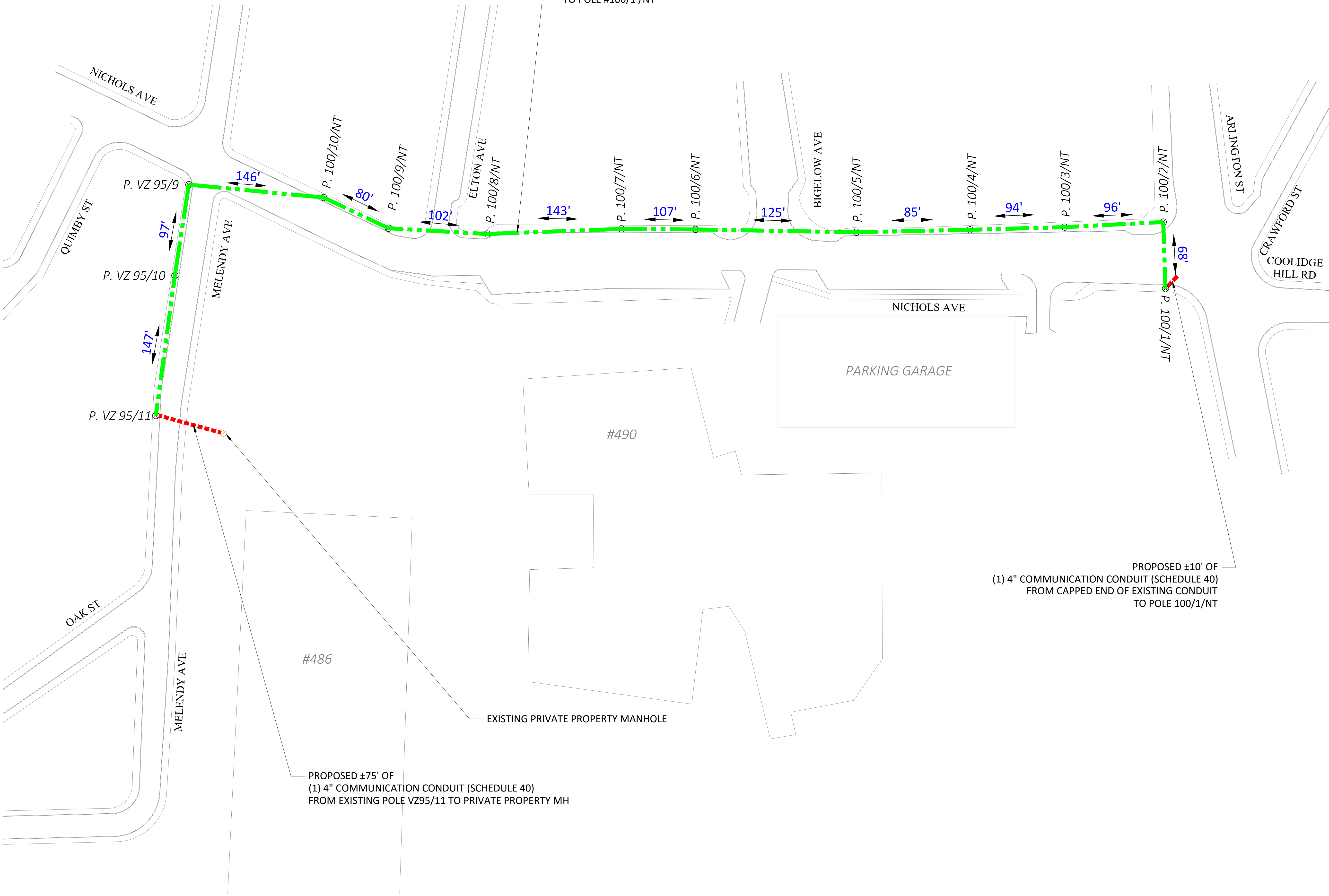
SURVEYED BY:	AXIS ENGINEERING	PRINT NO:	1 OF 1
DRAWN BY:	CS	SCALE:	1" = 50'
DATE:	6/20/2022	AS-BUILT:	

PROPOSED ±1,290' OF AERIAL CABLE
FROM POLE # VZ95/11
TO POLE #100/1 /NT

PROPOSED ±10' OF
(1) 4" COMMUNICATION CONDUIT (SCHEDULE 40)
FROM CAPPED END OF EXISTING CONDUIT
TO POLE 100/1/NT

PROPOSED ±75' OF
(1) 4" COMMUNICATION CONDUIT (SCHEDULE 40)
FROM EXISTING POLE VZ95/11 TO PRIVATE PROPERTY MH

EXISTING PRIVATE PROPERTY MANHOLE





Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian,
Councilor At Large

Caroline Bays,
Councilor At Large

John G. Gannon
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

NOTICE OF PUBLIC HEARING – ZAYO GROUP

Grant of Location: NICHOLS AVENUE AND MELENDY AVENUE TO 486 ARSENAL WAY

August 25, 2022

Dear Abutters:

The City Council of the City of Watertown will hold a public meeting on Tuesday, September 13, 2022 at 7:00 p.m. in the Richard E. Mastrangelo Council Chamber, 149 Main St., Watertown, MA along with remote opportunities for participation with public access provided as follows:

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/?channel=3>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/92991331344>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 929 9133 1344 #
- D. Public may also comment through email: vpiccirilli@watertown-ma.gov

on a petition from Zayo Group for consideration of a Grant of Location for the following installations

- Underground Grant of Location – Melendy Avenue and Arsenal Way – Install and maintain approximately 75 linear feet of one (1) 4-inch communication conduit from utility pole #11 to an existing manhole on private property belonging to 486 Arsenal Way
- Aerial Grant of Location – Nichols Avenue and Melendy Avenue – Install and maintain overhead wire from pole #100/100 on Nichols Avenue across Nichols Avenue and Melendy Avenue to pole #95/9 along Melendy Avenue to riser pole #95/11
- This Grant of Location is in conjunction with another request for along Melendy Avenue

This work is necessary to provide a communications connection to the data center at 486 Arsenal Way. Upon completion of the Department of Public Works review, the following recommendations and conditions for consideration by the City Council will be required should the Grant of Location be approved for this application.

Additional Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces, should be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, AAB and City of Watertown standards.
6. All work within the right of way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices, such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.
8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted, and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.

Please feel free to contact Mark Pavone at 508-530-8681 for any technical questions you may have.

Your participation is not necessary, if you choose not to object to the above petition.

Sincerely,

Watertown City Council



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

Gregory M. St. Louis, PE
Superintendent of Public Works

(P) 617-972-6420
(F) 617-972-6402

TYPE: Grant of Location
DATE: May 31, 2022
APPLICANT: Zayo Group
WORK ORDER: WO#
LOCATION: Nichols Avenue & Melendy Avenue to 486 Arsenal Way

Watertown Department of Public Works has reviewed the attached petition by National Grid for consideration of a Grant of Location for the following installations:

- **Underground Grant of Location - Melendy Avenue and Arsenal Way – Install and maintain approximately 75 linear feet of one (1) 4-inch communication conduit from utility pole #11 to an existing manhole on private property belonging to 486 Arsenal Way.**
- **Aerial Grant of Location – Nichols Avenue and Melendy Avenue – Install and maintain overhead wire from pole #100/10 on Nichols Avenue across Nichols Avenue and Melendy Avenue to pole # 95/9 along Melendy Avenue to riser pole #95/11.**
- **This Request for a Grant of Location is in conjunction with a Grant of Location within and along Nichols Avenue.**

This work is necessary to provide a communications connection to the data center at 486 Arsenal Way. Upon completion of our review, we are submitting the following recommendations and conditions for consideration by the City Council should the Grant of Location be approved for this application. A photo of the location of the proposed work is presented attached to this document.

Standard Conditions

1. During construction, uninterrupted pedestrian access (or temporary pedestrian facilities) shall be provided at all times or an appropriate alternative path provided.
2. Please be aware that there may be utility infrastructure that is not shown on the plan and may be encountered in the field. If a conflict occurs between the proposed installation and existing City-Owned and/or private utility infrastructure, The City Engineer shall be contacted directly to discuss an appropriate resolution.
3. It is the sole responsibility of the Applicant, and their Contractor, to ensure that and City-Owned and or private utilities, if located within the limits of work should be properly marked and protected during construction activities. **The City of Watertown is not a member of Dig Safe and must be notified separately.**
4. The proposed scope of work requires a DPW Street Opening Permit through the Watertown DPW prior to the start of construction.
5. All disturbances to curbing, grass strips, sidewalks, walkways, and roadway surfaces shall be repaired in kind to the satisfaction of the City of Watertown DPW. If any existing sidewalk is proposed to be removed and replaced in full width, the restoration must be completed in accordance with all current ADA, MAAB and City of Watertown standards.
6. All work within the Right of Way shall require the Contractor to schedule and coordinate a police traffic detail. Traffic control and safety measures shall be implemented in adherence to all applicable OSHA requirements, Massachusetts DOT Work Zone Safety Guidelines and Part VI of the Manual of Uniform Traffic Control Devices.
7. All material stockpiled on roadways and/or roadway shoulders shall be protected with erosion control devices such as silt fence or straw wattles. It will be the sole responsibility of the Contractor to remove any sediment that enters the City drainage system as a result of the proposed work.

8. Equipment, staging, and stockpiles shall not be located in a manner so as to interfere with intersection sightlines and shall be kept in a neat and orderly fashion.
9. Public shade trees within and adjacent to the proposed work zone must be protected. The Contractor shall install individual tree protection on any public shade tree that may be impacted and the Contractor shall not stockpile material or equipment within the drip zone of a public shade tree.
10. Contractor shall coordinate with City Health Department on rodent control requirements.



View of the proposed connection location from utility pole #11 to the existing data center located at 486 Arsenal Way.



View of utility pole #11 and the proposed connection location facing the location of the existing data center located at 486 Arsenal Way.

PETITION OF ZAYO FOR LOCATION FOR CONDUITS AND MANHOLES

To the City Council for the City of Watertown, Massachusetts:

Respectfully represents **Zayo Group, LLC.**, a company incorporated for the distribution of telecommunications services, that it desires to construct a line for such telecommunications under the public way or ways hereinafter specified.

87 Melendy Ave: Starting at Utility Pole #11, trench and install 75' +/- of (1) 4" communication conduit in an easterly direction to existing Private Property Manhole belonging to 486 Arsenal Way.

Wherefore, your petition prays that, after due notice and hearing as provided by law, the City Council may by Order grant your petitioner permission to construct, and a location for, such a line of conduits and manholes with the necessary wires and cables therein, said conduits and manholes to be located, substantially as shown on the plan made for Zayo, dated May 18, 2022 and filed here with, under the following public way or ways of said City of Watertown.

Zayo Group, LLC

By: Chris Cremers

Chris Cremers
OSP Project Specialist

Dated this May 26, 2022

City of Watertown, Massachusetts

Received and filed _____, 2022

ORDER FOR CONDUIT LOCATION

In the City Council for the City of Watertown, Massachusetts.

ORDERED:

That permission be and hereby is granted to **Zayo Group, LLC.**, to lay and maintain underground conduits and manholes, with the wires and cables to be placed therein, under the surface of the following public way or ways as requested in petition of said Company dated May 26, 2022

87 Melendy Ave: Starting at Utility Pole #11, trench and install 75' +/- of (1) 4" communication conduit in an easterly direction to existing Private Property Manhole belonging to 486 Arsenal Way.

Substantially as shown on plan marked – Zayo Proposed Cable Installation at 486 Arsenal Way (at Melendy Ave & Oak Ave) Watertown, MA, filed with said petition.

Also, that permission be and hereby is granted said Zayo to lay and maintain underground conduits, manholes, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as it may desire for distributing purposes.

The foregoing permission is subject to the following conditions:

1. The conduits and manholes shall be of such materials and construction and all work done in such manner as to be satisfactory to the City Council or to such officers as it may appoint to the supervision of the work, and a plan showing the location of conduits constructed shall be filed with the City when the work is completed.
2. Said Company shall indemnify and save the City harmless against all damages, costs, and expense whatsoever to which the Town may be subjected in consequence of the acts or neglect of said Company, its agents, or servants, or in any manner arising from the rights and privileges granted it by the City.
3. In addition, said Company shall, before a public way is disturbed for the laying of its wire or conduits, execute its bond in a penal sum of One Hundred Thousand Dollars (\$100,000) (reference being had to the bond already on file with said City) conditioned for the faithful performance of its duties under this permit.
4. Said Company shall comply with the requirements of existing by-laws, and such as may hereafter be adopted governing the construction and maintenance of conduits and wires, so far as the same are not inconsistent with the laws of the Commonwealth.

I hereby certify that the foregoing order was adopted at a meeting of the City Council for the City of Watertown, Massachusetts, held on the _____ day of _____ 2022.

City Council President

(over)

We hereby certify that on _____, 2022, at _____ o'clock _____ M., at Watertown, Massachusetts a public hearing was held on the petition of Zayo for permission to lay and maintain underground conduits, manholes and connections, with the wires and cables to be placed therein, described in the order herewith recorded, that we mailed at least seven days before said hearing a written notice the time and place of said hearing to each of the owners of real estate determined by the last preceding assessment for taxation along the ways parts of ways upon which the Company is permitted to construct the lines said Company under said order. And that thereupon said order was duly adopted.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

City Council; Watertown, Massachusetts

CERTIFICATE

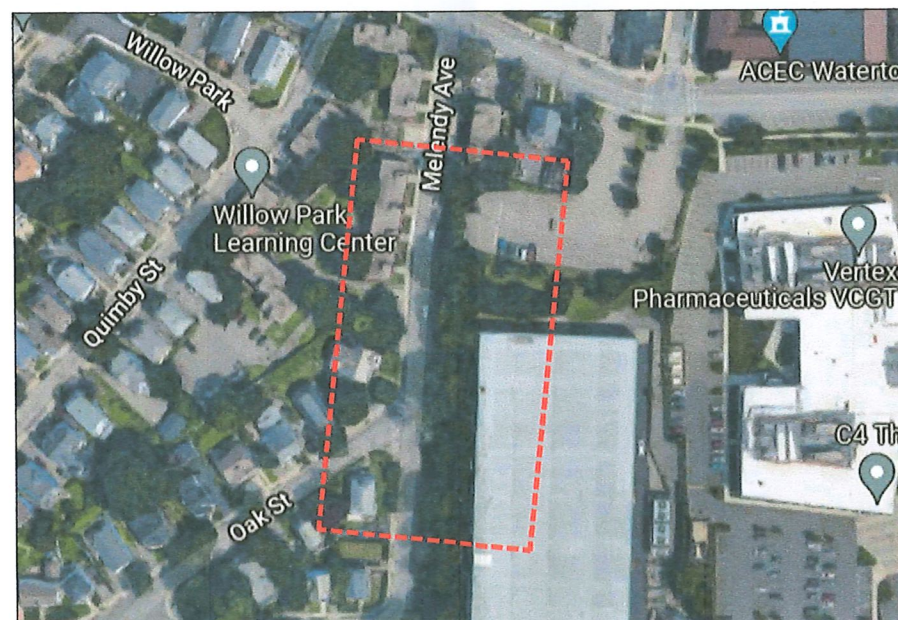
I hereby certify that the foregoing is a true copy of a location order, and certificate of hearing with the notice adopted by the City Council for the City of Watertown, Massachusetts, on the _____ day of _____ 2022, recorded with the records of location orders of said Town, Book _____, Page _____. This certified copy is made under the provision of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:

City Clerk



PROPOSED CONDUIT INSTALLATION
486 ARSENAL WAY
(AT MELENDY AVE & OAK AVE)
WATERTOWN, MA



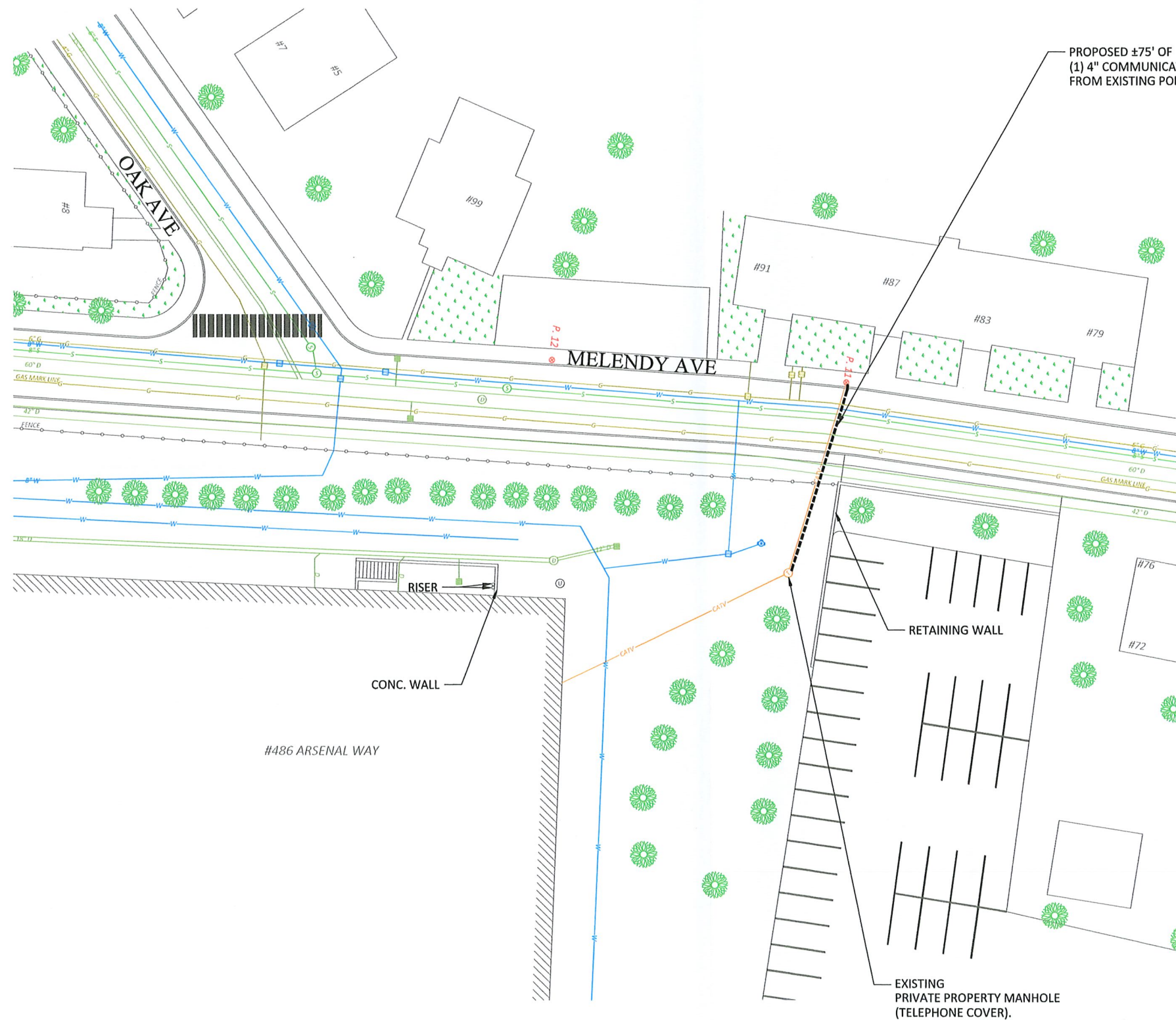
LOCUS
N.T.S

AXIS
ENGINEERING GROUP
201 Boston Post Rd West – Suite 100
Marlborough, MA 01752
(774) 556-2924 www.axisengroup.com

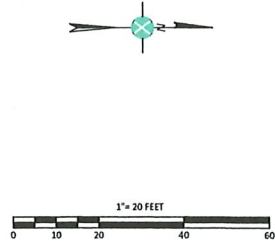
INDEX OF DRAWING

SHEET NO.	DESCRIPTION
--	COVER SHEET
01	PROPOSED CONDUIT INSTALLATION
02	GENERAL NOTES AND DETAILS

RECEIVED
WATERTOWN D.P.W.
2022 MAY 26 AM 11:15



PROPOSED ±75' OF
(1) 4" COMMUNICATION CONDUIT (SCHEDULE 40)
FROM EXISTING POLE 11 TO PRIVATE PROPERTY MH



LEGEND

X	ELECTRIC POLE	Ⓜ	STREET LIGHT
⊗	JOINT UTILITY POLE	Ⓛ	ELECTRIC HH
Ⓛ	LAMP POST	Ⓢ	TEL HH
Ⓢ	TRAFFIC LIGHT	Ⓢ	CATV HH
Ⓢ	SEWER MH	Ⓢ	COMM PEDESTAL
Ⓢ	DRAIN MH	Ⓢ	IRRIGATION VALVE
Ⓢ	TELEPHONE MH	Ⓢ	WATER METER
Ⓢ	ELECTRIC MH	Ⓢ	GAS METER
Ⓢ	CATV MH	Ⓢ	SEWER GATE
Ⓢ	WATER MH	Ⓢ	GAS GATE
Ⓢ	PAG	Ⓢ	WATER GATE
Ⓢ	BUSH/SHRUB	Ⓢ	HYDRANT
Ⓢ	RIGHT OF WAY	Ⓢ	MAIL BOX
Ⓢ	CULVERT	Ⓢ	STONE BOUND
Ⓢ	GUARD RAIL	Ⓢ	PARKING METER(S)
Ⓢ	FENCE	Ⓢ	STEEL POST
Ⓢ	ELECTRIC VAULT	Ⓢ	SIGN POLE
Ⓢ	TRAFFIC HH	Ⓢ	UG CABLE MARKER
Ⓢ	PROPOSED HH	Ⓢ	TRANSFORMER
Ⓢ	PROPOSED CONDUIT	Ⓢ	CATCH BASIN

NOTE:
EXISTING UTILITIES SHOWN ARE APPROXIMATE AND
NOT WARRANTED TO BE CORRECT. THE
CONTRACTOR SHALL VERIFY THE LOCATION OF ALL
PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING
ANY EXCAVATION.



PREPARED BY:
AXIS
ENGINEERING GROUP

PREPARED FOR:
zayo

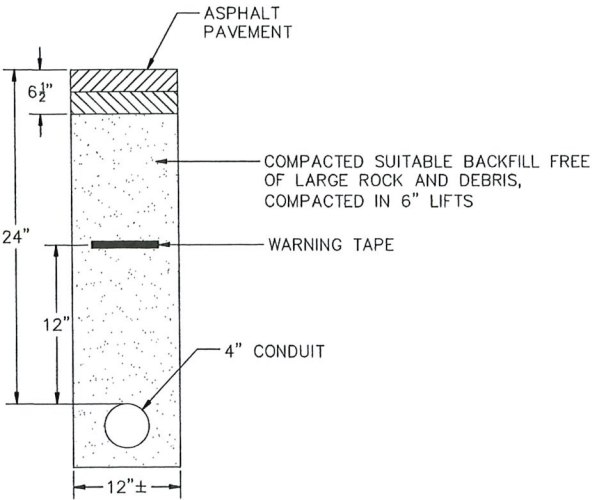
REV #	DESCRIPTION	DATE

TITLE:
PROPOSED CONDUIT INSTALLATION
486 ARSENAL WAY AT MELENDY AVE & OAK AVE
WATERTOWN, MA

SURVEYED BY: AXIS ENGINEERING	PRINT NO: 1 OF 2
DRAWN BY: MB	SCALE: 1" = 20'
DATE: 5/18/2022	AS-BUILT:

GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHOULD MAINTAIN A SEPARATION OF 18 INCHES MIN. WHEN CROSSING EXISTING WATER FACILITIES.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
5. THE CONTRACTOR SHALL NOT DISTURB PUBLIC TREES AND SHRUBS.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE 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 SANDED.
9. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY LINES 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 MUNICIPAL TRAFFIC DEPARTMENT.
11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES 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 THERMOPLASTIC MARKINGS.

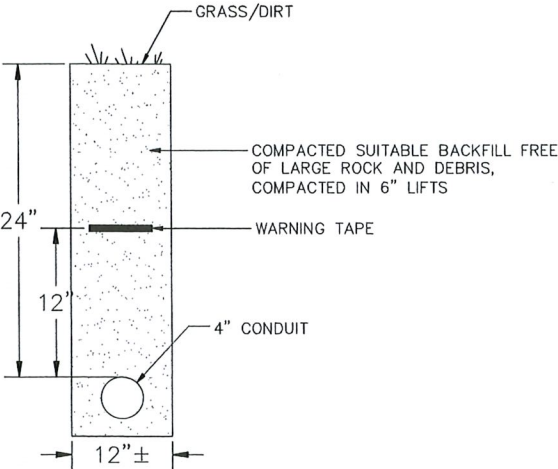


ROADWAY PATCH AND DUCT BANK
INSTALLATION DETAIL

N.T.S.

TRENCH DETAIL NOTES:

1. 24" MAXIMUM FROM TOP OF CONDUIT TO SURFACE.
2. 12" FROM TOP OF CONDUIT TO METALLIC WARNING TAPE PLACED ABOVE.
3. REPAIR SIDEWALKS AND WALKWAYS WITH SAME MATERIALS AS EXISTING.



GRASS/DIRT PATCH AND DUCT BANK
INSTALLATION DETAIL

N.T.S.

TRENCH DETAIL NOTES:

1. 24" MAXIMUM FROM TOP OF CONDUIT TO SURFACE.
2. 12" FROM TOP OF CONDUIT TO METALLIC WARNING TAPE PLACED ABOVE.
3. REPAIR GRASS WITH MATERIALS TO MATCH EXISTING.

LEGEND

×	ELECTRIC POLE	⊗	STREET LIGHT
⊗	JOINT UTILITY POLE	⊠	ELECTRIC HH
⊠	LAMP POST	⊡	TEL HH
⊡	TRAFFIC LIGHT	⊢	CATV HH
⊢	SEWER MH	⊣	COMM PEDESTAL
⊣	DRAIN MH	⊤	IRRIGATION VALVE
⊤	TELEPHONE MH	⊥	WATER METER
⊥	ELECTRIC MH	⊦	GAS METER
⊦	CATV MH	⊧	SEWER GATE
⊧	WATER MH	⊨	GAS GATE
⊨	PAG	⊩	WATER GATE
⊩	BUSH/SHRUB	⊪	HYDRANT
⊪	RIGHT OF WAY	⊫	MAIL BOX
⊫	CULVERT	⊬	STONE BOUND
⊬	GUARD RAIL	⊭	PARKING METER(S)
⊭	FENCE	⊮	STEEL POST
⊮	ELECTRIC VAULT	⊯	SIGN POLE
⊯	TRAFFIC HH	⊰	UG CABLE MARKER
⊰	PROPOSED HH	⊱	TRANSFORMER
⊱	PROPOSED CONDUIT	⊲	CATCH BASIN

NOTE:
EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.



PREPARED BY:

AXIS
ENGINEERING GROUP

PREPARED FOR:

zayo

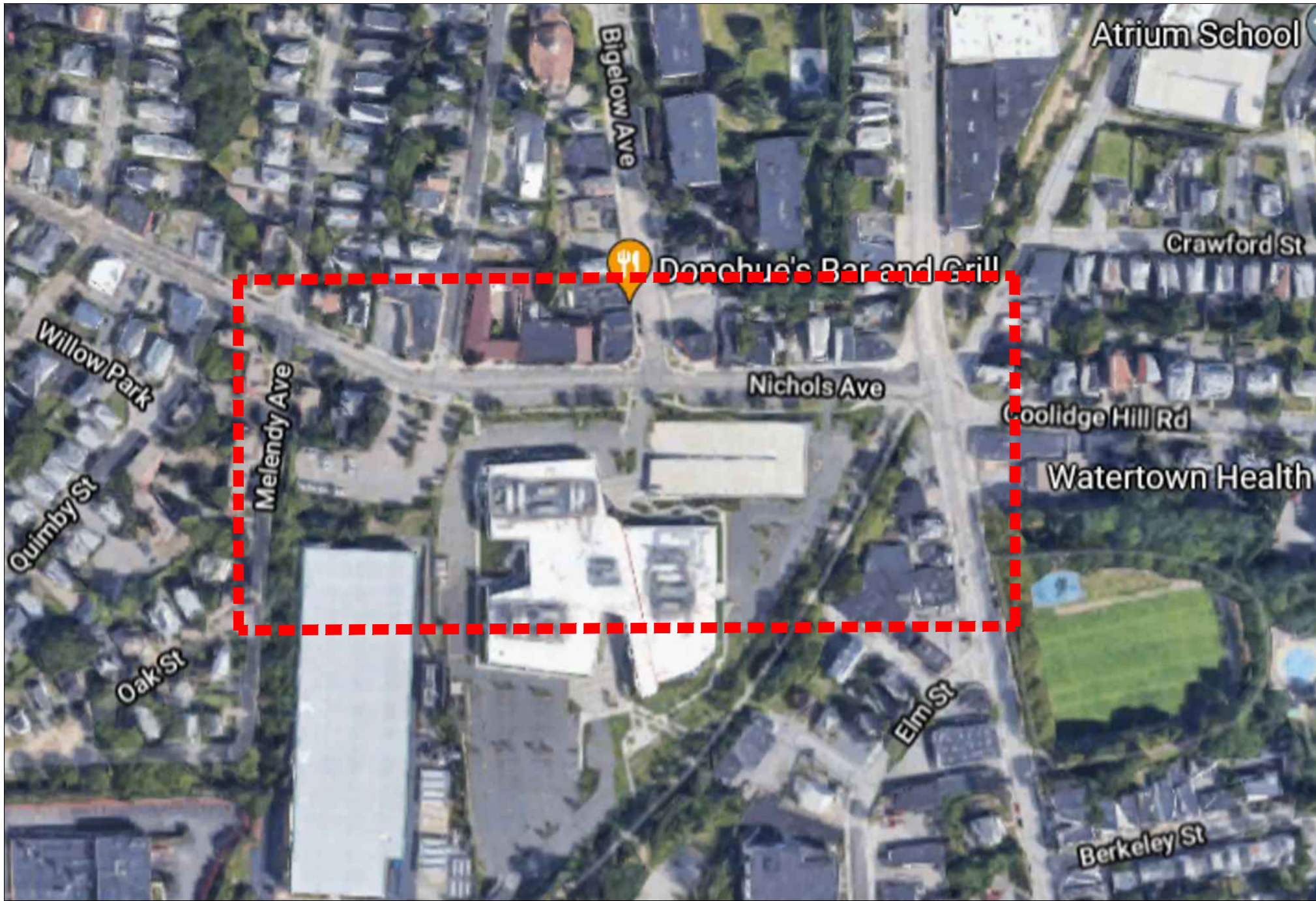
REV #	DESCRIPTION	DATE

TITLE:
GENERAL NOTES AND DETAILS
MELENDY AVE
WATERTOWN, MA

SURVEYED BY: AXIS ENGINEERING	PRINT NO: 2 OF 2
DRAWN BY: MIB	SCALE: N. T. S.
DATE: 5/18/2022	AS-BUILT:



PROPOSED AERIAL CABLE INSTALLATION FOR EVOQUE DATA CENTER
AT
486 ARSENAL WAY
WATERTOWN, MA



LOCUS
N.T.S

INDEX OF DRAWING

SHEET NO.	DESCRIPTION
--	COVER SHEET
01	PROPOSED AERIAL CABLE INSTALLATION

LEGEND

EXISTING AERIAL CABLE

PROPOSED AERIAL CABLE

PROPOSED UNDERGROUND CABLE

JOINT OWNED POLE

SOLE OWNED TEL POLE

SOLE OWNED ELEC POLE

SPAN LENGTH

SLACK COIL

1" = 50 FEET

0 25 50 100 150

LEGEND

ELECTRIC POLE	STREET LIGHT
JOINT UTILITY POLE	ELECTRIC HH
LAMP POST	TEL HH
TRAFFIC LIGHT	CATV HH
SEWER MH	COMM PEDESTAL
DRAIN MH	IRRIGATION VALVE
TELEPHONE MH	WATER METER
ELECTRIC MH	GAS METER
CATV MH	SEWER GATE
WATER MH	GAS GATE
PAG	WATER GATE
BUSH/SHRUB	HYDRANT
RIGHT OF WAY	MAIL BOX
CULVERT	STONE BOUND
GUARD RAIL	PARKING METER(S)
FENCE	STEEL POST
ELECTRIC VAULT	SIGN POLE
TRAFFIC HH	UG CABLE MARKER
PROPOSED HH	TRANSFORMER
PROPOSED CONDUIT	CATCH BASIN

NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.

CALL BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

72 HOURS NOTICE REQUIRED.

ENTER 1-888-DIG-SAFE

PREPARED BY:

AXIS ENGINEERING GROUP

PREPARED FOR:

zayo

REV #	DESCRIPTION	DATE

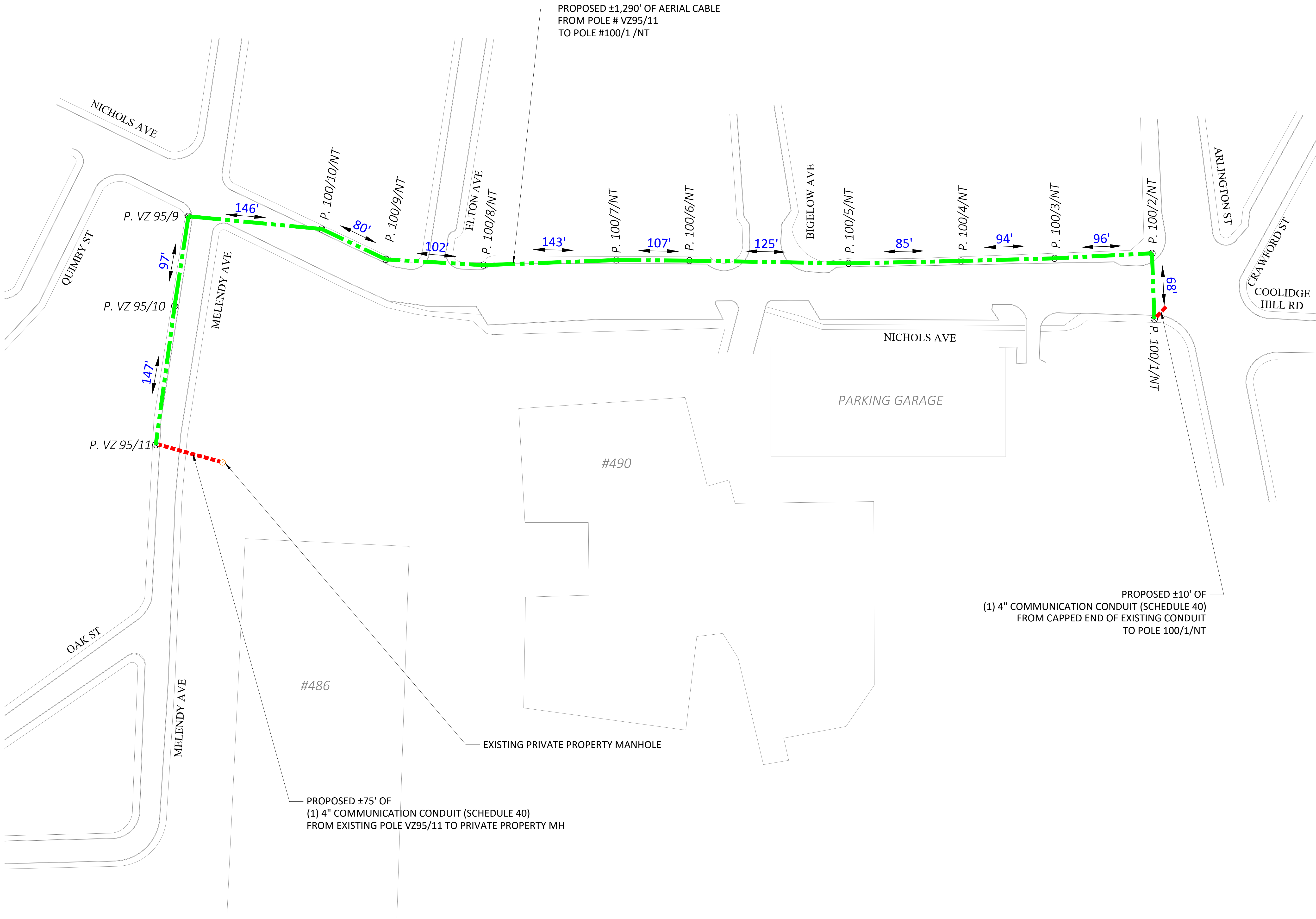
TITLE:

PROPOSED AERIAL CABLE INSTALLATION

486 ARSENAL WAY

WATERTOWN, MA

SURVEYED BY:	AXIS ENGINEERING	PRINT NO:	1 OF 1
DRAWN BY:	CS	SCALE:	1" = 50'
DATE:	6/20/2022	AS-BUILT:	





George J. Proakis
City Manager

CITY OF
WATERTOWN
Office of the City Manager

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6465
www.watertown-ma.gov
citymgr@watertown-ma.gov

To: Honorable City Council

From: George J. Proakis, City Manager 

Date: September 8, 2022

RE: Agenda Item - Proposed Loan Order

On March 22, 2022, the Honorable City Council adopted thirty-four (34) conceptual recommendations on the Fiscal Year 2023-2027 CIP.

Conceptual recommendation #10 reads as follows:

- Confirm the prior recommendation to proceed with the FY21 \$1,500,000 proposed loan order for connector roads/longer street projects, in accordance with the Public Works Committee report approved by the City Council on November 23, 2021 to reconstruct Highland Ave.

As a follow-up to that conceptual recommendation, attached please find correspondence from Gregory M. St. Louis, Superintendent of Public Works regarding Fiscal Year 2021 Connector Roads/Longer Streets Improvements.

For additional background purposes I have attached the following:

- Excerpt from the November 23, 2021 City Council Minutes and Report of the Committee on Public Works

Therefore, given all of the above, I respectfully request the attached Proposed Loan Order of \$2,000,000 be placed on the September 13, 2022 City Council Agenda as a First Reading.

Thank you for your consideration in this matter.

cc: Gregory M. St. Louis, Superintendent of Public Works
Thomas P. Watkins, Director of Administration and Finance, Department of Public Works
Matthew I. Shuman, City Engineer
Steven T. Magoon, Director of Community Development and Planning/Assistant City Manager
Thomas J. Tracy, City Auditor/Assistant City Manager for Finance
Melissa A. Morrissey, City Treasurer/Collector



28 State Street
Boston, MA 02109-1775
p: 617-345-9000 f: 617-345-9020
hinckleyallen.com

Jay Gonzalez
(617) 378-4256
jgonzalez@hinckleyallen.com

August 25, 2022

George J. Proakis
City Manager
Administration Building
149 Main Street
Watertown, Massachusetts 02472

RE: Draft Loan Order – Street and Sidewalk Bonds

Dear George:

As requested, I suggest the following form of loan order to approve the borrowing of funds to pay costs of street and sidewalk improvements:

ORDERED: That the sum of \$2,000,000 is appropriated to pay costs of constructing, reconstructing, paving, repairing or otherwise improving streets and sidewalks, including improving underground ducts and conduits and paying all other costs incidental and related to such street and sidewalk work; and that to meet this appropriation, the Treasurer, with the approval of the City Manager, is authorized to borrow said amount under and pursuant to M.G.L. c.44, §7(1), or pursuant to any other enabling authority, and to issue bonds or notes of the City therefor.

The order must be published at least five days prior to the holding of a public hearing with respect to the order and its final passage and requires the affirmative vote of at least two-thirds of all members of the City Council, as in the case of any other loan order for bonds.

Please call me if there are any questions about the suggested proceedings.

Sincerely,

Jay Gonzalez



CITY OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET

Gregory M. St. Louis, PE
Superintendent

(P) 617-972-6420
(F) 617-972-6402

TO: Mr. George Proakis, City Manager
FROM: Mr. Gregory M. St. Louis, Supt. of Public Works
DATE: August 23, 2022
RE: FY 2021 Connector Roads/Longer Streets Improvements – Additional Funding Plan

The Department of Public Works respectfully requests that the necessary actions be taken to authorize the Treasurer to borrow funds as outlined in the Fiscal Year 2021 Capital Improvement Program (CIP) budget for the Connector Roads/Longer Streets Improvements. While the funded amount in the CIP was listed and approved at \$1,500,000.00 the DPW respectfully requests that \$2,000,000.00 be approved as the costs for labor and materials have significantly increased, resulting in higher than anticipated bid prices for this project than when the project was first conceptually designed.

These funds will be utilized for the design, engineering, construction and construction administration services associated with the Highland Avenue and Chapman Street reconstruction project. This recommendation is in accordance with the City Council Committee on Public Works report approved by the City Council on November 23, 2021.

The work will consist of the reconstruction of Highland Avenue (between Lexington Street and the Watertown/Waltham boundary line) and Chapman Street (between Grandview Avenue and Main Street). The proposed work will include full depth pavement reclamation, excavation of existing pavement, fine grading and compacting, hot mix asphalt paving, removing/resetting existing granite curbing, and installation of new granite curbing as required.

Additional improvements include constructing new cement concrete sidewalks and driveway aprons to meet ADA/AAB requirements, constructing ADA/AAB compliant pedestrian curb ramps, minor drainage system improvements, green infrastructure enhancements, removing/resetting or replacing roadway signage, pavement markings, safety controls and signing for construction operations, and other incidental items and related work.

Additional project background details and concept plans are available on our website:

<https://www.watertowndpw.org/221/Highland-Ave>

The contract in total is \$2,963,539.04 leaving a balance of \$963,539.04 outside of the aforementioned loan order request. This balance will be funded from other DPW capital and utility accounts that have remaining balances on them from either completed projects or open account balances.

If borrowing is approved as outlined and requested, construction is anticipated to begin later this season, with project completion by the end of November of 2023.

We thank you in advance for your consideration.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Gregory M. St. Louis".

Gregory M. St. Louis, Supt. of Public Works

CC: T. Tracy
S. Magoon
J. Gonzalez
M. Shuman
T. Glode
E. Baptista
T. Watkins

Committee on Public Works Report Regarding the Review and Recommendations of the 2022 Local Road Construction Program - Vincent J. Piccirilli, Chair

ACTION ITEM:

1. That the City Council approve the Recommendations by the Department of Public Works for the Road Reconstruction Program which includes Boylston Street (Fairfield Street to Porter Street), Chester Street, Locke Street, and Chapman Street (Main Street to Highland Avenue) and the Recommendations for the Long Street and Connector Program which includes Highland Avenue, Morse Street, and Fifth Avenue.

Councilor Piccirilli read the Committee report. Councilor Piccirilli moved to accept the report; Councilor Palomba seconded the motion. The motion was adopted unanimously on a roll call vote.

Councilor Piccirilli moved to approve the recommendations of the Department of Public Works for the Road Reconstruction Program which include Boylston Street (Fairfield Street to Porter Street), Chester Street, Locke Street, and Chapman Street (Main Street to Highland Avenue) and the recommendations for the Long Street and Connector Program which include Highland Avenue, Morse Street, and Fifth Avenue; Councilor Palomba seconded the motion.

In the discussion, a comment was made that the plans for Highland Avenue, Morse St., and Fifth Avenue do not seem to be finalized. Highland Avenue is a long road and there are a number of driveway cuts that need to be dealt with. Morse Street has several disabled and low-income residents and is also the only connector between Galen Street and Watertown Street. The timing may be an issue as there may be questions about gas service and water and sewer matters.

It was noted that Highland Avenue is planned for the summer of 2022 and Morse Street in the summer of 2023, but some significant planning needs remain to be completed. Mr. St. Louis, Superintendent of the Department of Public Works, stated at the Committee meeting that gas work needs to be done on Morse Street; therefore, he felt Highland Avenue should be completed first.

The motion was adopted unanimously on a roll call vote.

Watertown Town Council
Committee on Public Works

Councilor Piccirilli, Chair, Councilor Donato, Vice Chair, Councilor Palomba, Secretary

Committee Report
October 18, 2021, 5:00 PM

The Committee on Public Works met on Monday, October 18, 2021 at 5:00 PM in the Phillip Pane Lower Hearing Room. This was an in-person meeting. The purpose of the meeting was to review and make recommendations on the 2022 local road construction program.

Those attending the meeting included the three members of the Committee, Councilors Piccirilli, Donato, and Palomba as well as Councilor Feltner, Councilor Bays, Department of Public Works Superintendent Greg St. Louis, Town Engineer Matt Shuman, Laura Wiener, Senior Transportation Planner at the Department of Community Development and Planning, Andy Compagna and Hannah Rakoff from the Watertown Bicycle and Pedestrian Committee, and residents Dan McKinley and Collin Snow.

Matt Shuman gave a power-point presentation, "2022 Road Program" that is available at <https://www.watertownpw.org/191/Annual-Road-Program>. Highlights of the presentation included the following.

- 1) All of the 2020/2021 road reconstruction projects have been completed with a few minor items left to be finished. These include Nichols Avenue (Boylston Street to Quimby Street), Wheeler Lane, Alden Road, Sheldon Road, Hazel Street (Quimby Street to Dexter Avenue), Gertrude Street, Elmwood Avenue, and Grandview Avenue (Chapman Street to Copeland Street).
- 2) Green Street was reconstructed following the Complete Streets protocol and included raised intersections, ADA compliance, new sidewalks, and significant stormwater improvements.
- 3) The reconstruction of lower Waverley Avenue (Orchard Street to Belmont Street) also followed the Complete Streets protocol and is completed. Funding for this project came from the Long Streets and Collector Program of \$1.5 million in FY 2020.
- 4) There are a variety of techniques used to maintain, repair, and reconstruction streets. Limited mill and overlay, full depth patching, and sealing of cracks are used to extend the life of a road. It was noted that roads that receive pavement preservation such as mill and overlay are not automatically pushed to the back of the line and then not considered for full depth reconstruction/reclamation in future years. Funding for road maintenance and repair typically comes from Chapter 90 monies allocated to Watertown from the Commonwealth.
- 5) Full depth reconstruction/reclamation of a roadway includes completely replacing the road, installing granite curbing, concrete sidewalks, driveway aprons, and handicap ramps, adding or rehabilitating planting strips, tree planting, and improvements to stormwater management.

Candidates for this work need to be approved by the Town Council and are funding by annual borrowing of \$2.5 million.

6) A **Pavement Condition Index** (PCI) is used to measure the level of distress of a road's surface. The PCI uses a scale of 0 – 100 with 0 representing a “roadway failure” and 100 representing a roadway that is “perfect conditions with no repairs needed”. PCI for Watertown's roads in 2012 was 59 and in 2016, the last time a PCI was performed, was 65.

7) The Department is using new technology to measure the PCI, specifically three dimensional video recording and GPS to survey streets. (They are also using this technology to survey sidewalks.) They anticipate that the new PCI will be lower than the PCI in 2016 due to the greater level of detail provided by the new technology, increased gas and water repairs, and the general deterioration of the roads due to increase use.

8) The Department creates a “Universe of Projects” based on the 2012 and 2016 PCI, maintenance records, capital projects, windshield surveys, and resident input via work orders. The Universe is then further refined to determine which roads are recommended for full reconstruction/reclamation. The factors used to determine the recommended roads include what streets are in the greatest state of disrepair, available funding, planned utility improvements, ongoing preventive maintenance, and geographic equity.

Mr. Shuman then announced the Department's recommendations for Road Reconstruction in FY 2022 – **Boylston Street** (Fairfield Street to Porter Street), **Chester Street**, **Locke Street** and **Chapman Street** (Main Street to Highland Avenue). There are a number of steps and reviews that are required before the Department requests bids for the work in December. These include reviews of driveways, street trees, and water services and fire hydrants, and a review by the Complete Streets Working Group.

Mr. Shuman also announced the Department's recommendations for the Long Streets and Collector Program – **Highland Avenue** during the 2022 construction season (April to November) using FY 2021 monies, and **Morse Street and Fifth Avenue** in the 2023 construction season using FY 2022 monies.

Councilor Feltner, the District B Councilor, commented on aspects of the presentation and shared information about a number of roads in her District.

1) She is pleased that DPW has contracted with Streetscan and is using new technology to collect data on street and sidewalk conditions. She had recommended this a number of years ago. She also believes residents will appreciate seeing new transparency tools, like “story map” used.

2) She would like to see increased maintenance on Brigham Street and Jackson Road. She also believes the Town needs to address the issue of the Private Way classification. We repair potholes but there is no permanent solution regarding maintenance of these roads.

3) She is pleased to see Fifth Avenue on the list of the Long Streets and Collector Program and believes it is an ideal street for additional green space, bio-retention, and bike accommodations given the extra street width.

4) She hopes for full reconstruction/reclamation of Morse Street for a number of reasons, besides its longstanding poor conditions, including that it is the only direct connection between Galen and Watertown Streets, that it is a school walking and bus route, and that even more traffic is anticipated with the 66 Galen Street project improvements.

5) She was under the impression that Irving Street was to realize full reconstruction/reclamation, including sidewalk improvements, through Arsenal Street developer mitigation. She is interested in learning the status now since mill and overlay was recently done instead between Arsenal Street and Mt. Auburn Street.

The Committee then entertained two Action Items.

Councilor Donato made the following motion:

That the Committee on Public Works recommends that the Town Council approve the recommendations by the Department of Public Works for the 2022 Road Reconstruction Program which includes Boylston Street (Fairfield Street to Porter Street), Chester Street, Locke Street, and Chapman Street (Main Street to Highland Avenue) and the recommendations for the Long Street and Connector Program which includes Highland Avenue, Morse Street and Fifth Avenue.

Councilor Palomba seconded the motion and it passed 3 – 0.

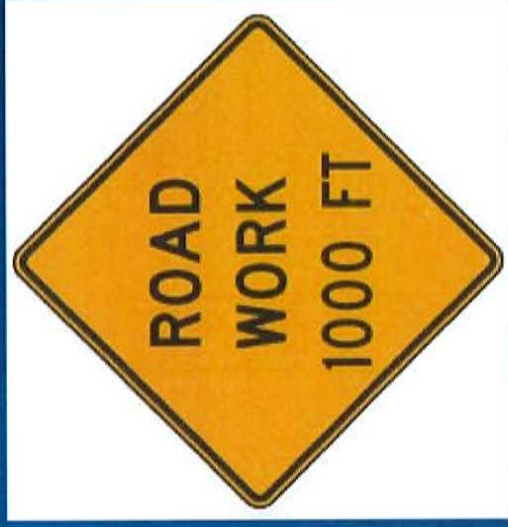
Councilor Piccirilli made the following motion:

That the Committee on Public Works recommends that the Town Council approve an increase in the 5 year Capital Improvement Program to accelerate road and sidewalk repairs and to accommodate price escalations and required stormwater improvements.

Councilor Donato seconded the motion and it passed 3 – 0.

The meeting adjourned at 6:05 PM. The minutes were prepared by Councilor Palomba

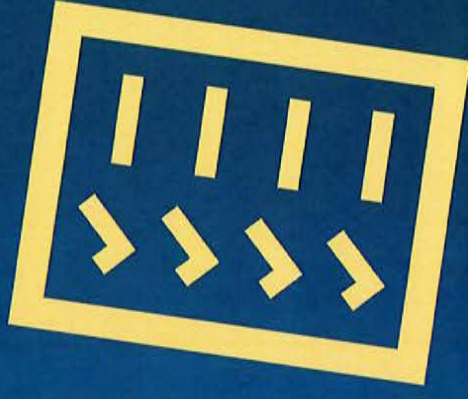
2022 Road Program



Public Works Subcommittee Presentation
October 18, 2021

Agenda

- Road Program Updates
- Pavement Management Goals
- 2022 Road Reconstruction List
- Long Streets & Collector Program
- Recommendations
- Questions



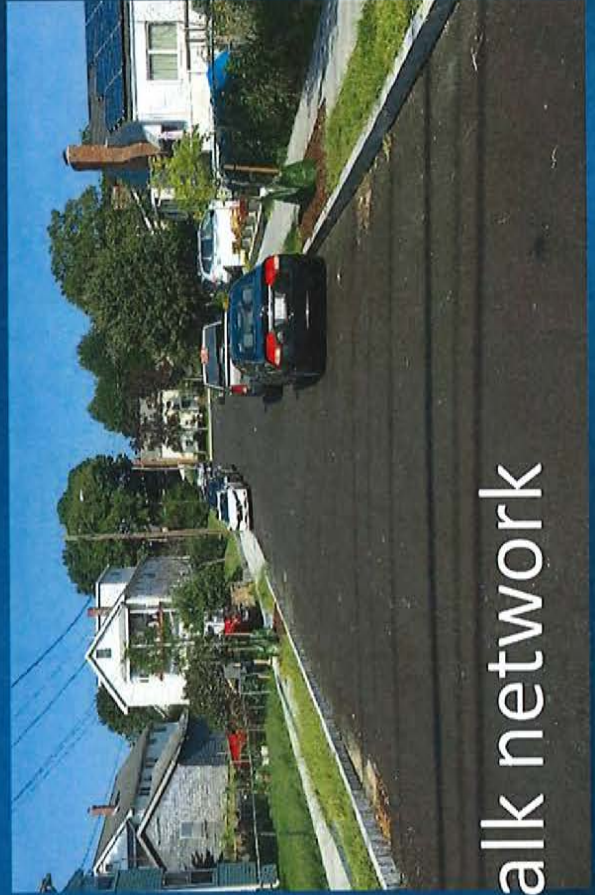
Road Program Updates

2020/2021 Construction Updates

- Nichols Ave. (Boylston Street to Quimby Street)
- Wheeler Lane
- Alden Road
- Sheldon Road
- Hazel Street (Quimby Street to Dexter Ave.)
- Gertrude Street
- Goldie Street
- Elmwood Ave.
- Grandview Ave. (Chapman St. to Copeland St.)

Road Program Updates

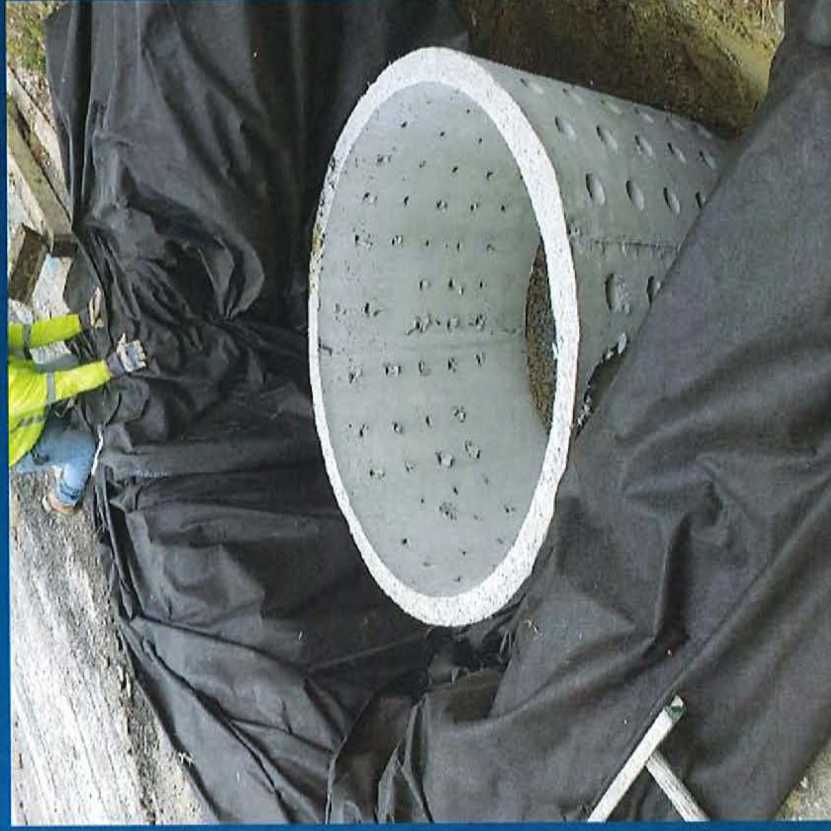
Complete Streets/Green Streets



- Raised intersections
- Curb extensions
- ADA compliance
- Completing the sidewalk network

Road Program Updates

Complete Streets/Green Streets



- 7 drywells
- 13 stormwater tree trenches
- 4.75 lbs/year of phosphorus treated

Road Program Updates

Waverley Ave.



Pavement Management Goals

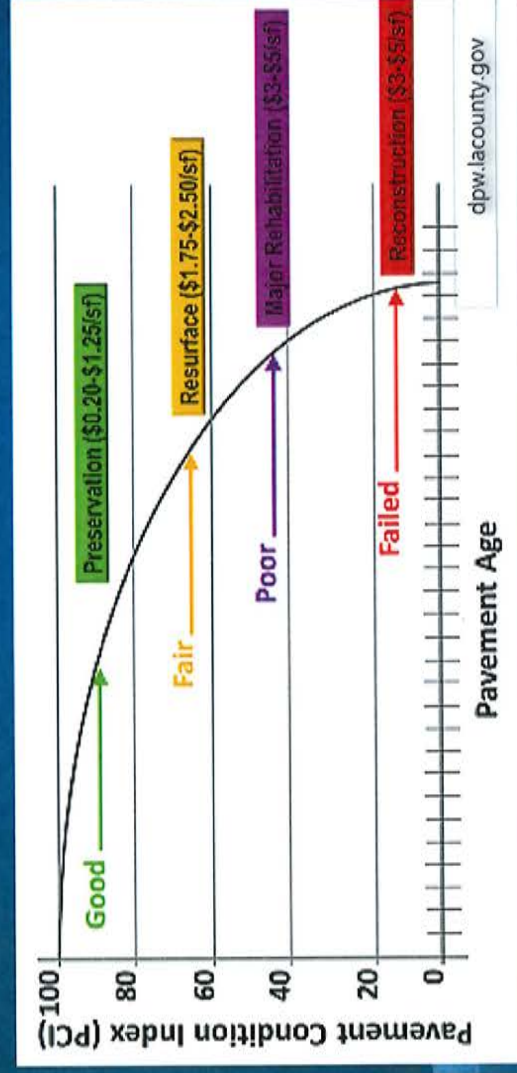
Maintenance, Repair & Reconstruction

- Use a variety of preservation treatments to prolong the useful life of our roadways
- Coordinate road repairs and reconstruction activities with capital planning and utility work
- Take a “Complete Streets” approach to roadway reconstruction to improve pedestrian and bicycle facilities, connectivity, and streetscape
- Seek alternative funding sources for large-scale projects

Pavement Management Goals

Pavement Management Techniques

- Pavement Preservation Techniques
 - Limited mill and overlay repairs
 - Full depth patch
 - Crack sealing
- Road Reconstruction Techniques
 - Road reclamation (reconstruction)



Pavement Management Goals

Pavement Preservation Techniques

- Prolong the useful life of road surfaces
- Cost-effective over time versus complete reconstruction
- Does not address other needs or desires, such as sidewalks and curbing



Pavement Management Goals

Pavement Reconstruction Techniques

- Roadway reclamation
 - Addresses the structural integrity of the roadway
 - Fully replaces the pavement surface (4-inch thickness)
 - Scope of work also includes:
 - Installation of granite curbing, concrete sidewalks, driveway aprons and handicap ramps
 - Rehabilitation or addition of a planting strip
 - Review of driveway openings for compliance with Zoning
 - Drainage and stormwater management improvements
 - Tree plantings
 - Streets proposed for road reconstruction are submitted to Town Council for review

Pavement Management Goals

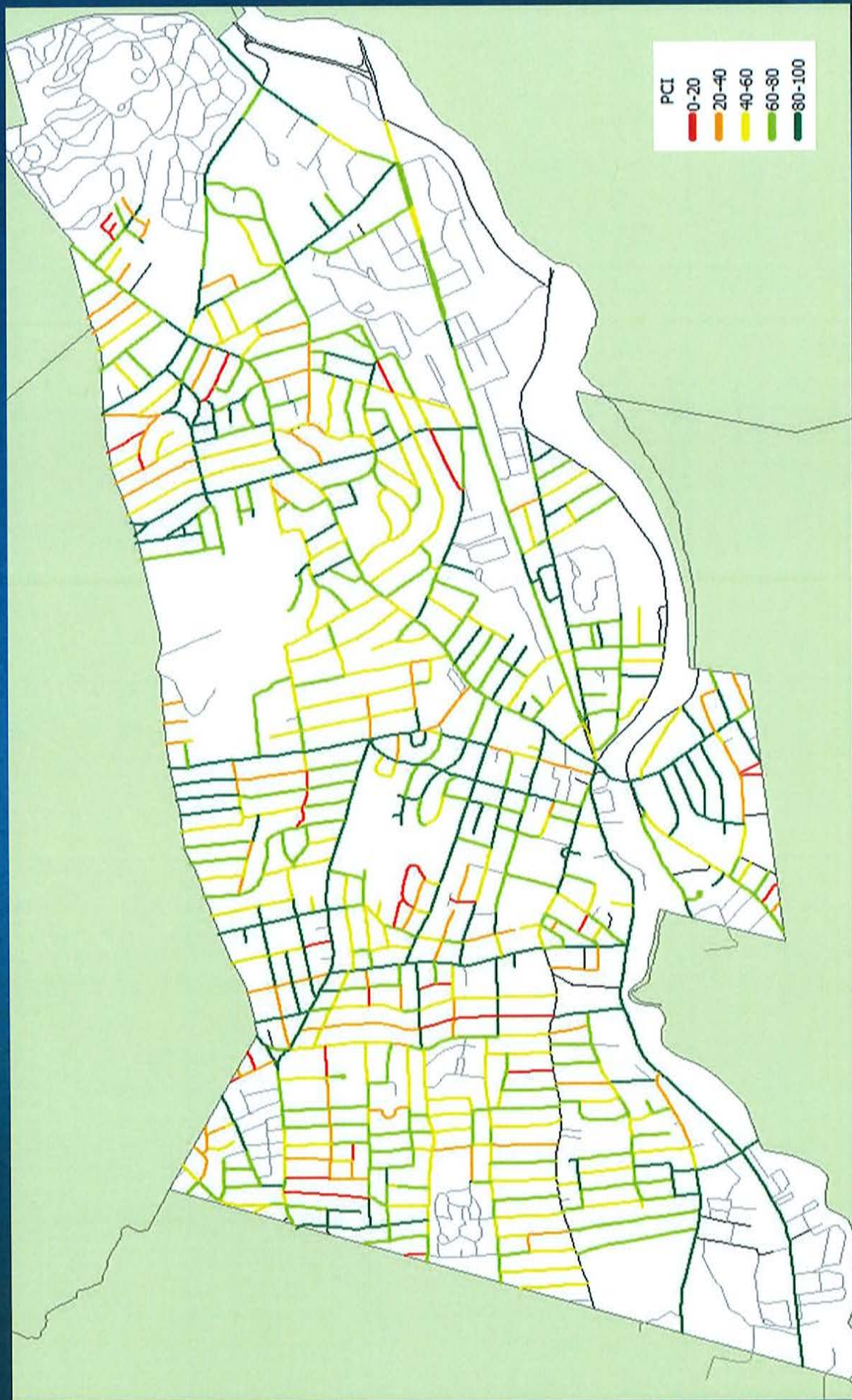
Pavement Management Metrics

- PCI – Pavement Condition Index
- Scaled from 0 to 100 based on level of distress of the road surface
 - 100 – perfect, no repairs necessary
 - 0 – roadway failure
- Based on field surveys of all streets in Town
- 2016 Town-Wide Pavement Condition Index: 65 (2012 – 59)
- 2016 Total Work Backlog: \$88 million (2012 - \$92 million)

2020 Pavement Management Study underway

Pavement Management Goals

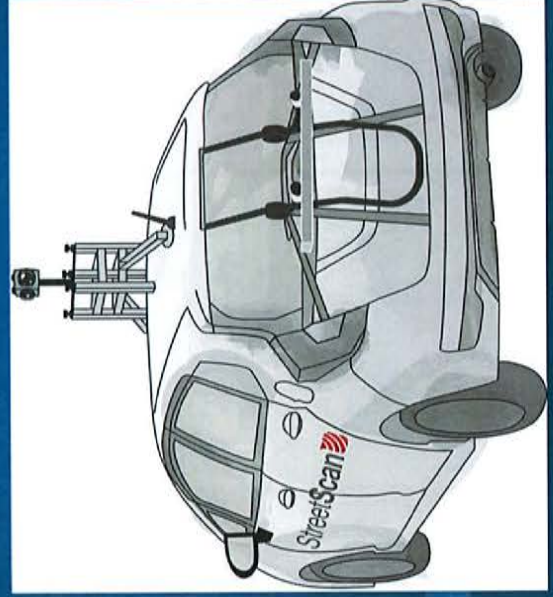
2016 Pavement Condition Index Map



Pavement Management Update

StreetScan

- Uses three dimensional video recording and GPS to survey street and sidewalks
- Computerized algorithms develop PCI map
- Maps roadway conditions, such as patches, cracking, bumps, etc.



Pavement Management Update

Streetscan

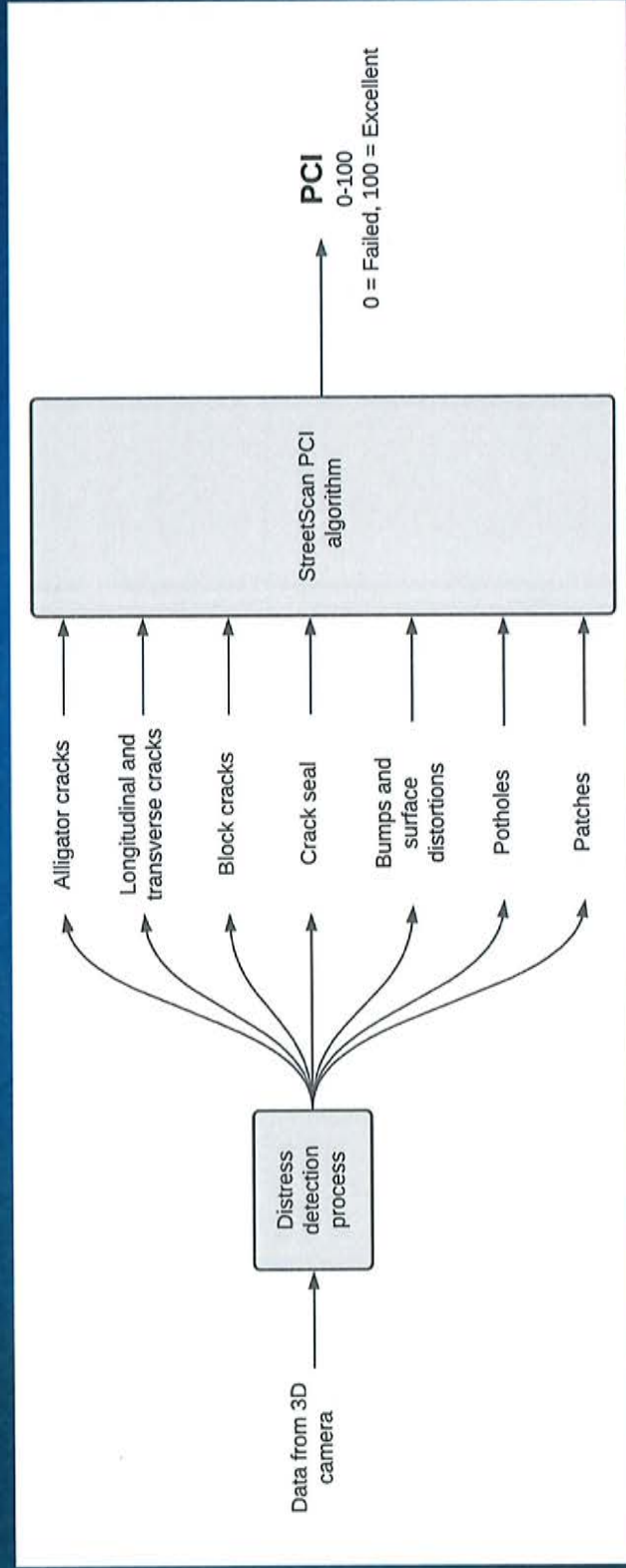
- Other useful information also collected
 - Street trees, manhole covers, sign locations
- Similar process used to develop a sidewalk condition index
 - Bumps and settlement, uplifting due to trees



Pavement Management Update

StreetScan

- Develop GIS database
- Overlay with utility data for increased coordination
- Planning level repair recommendations
- Video recordings available to document conditions



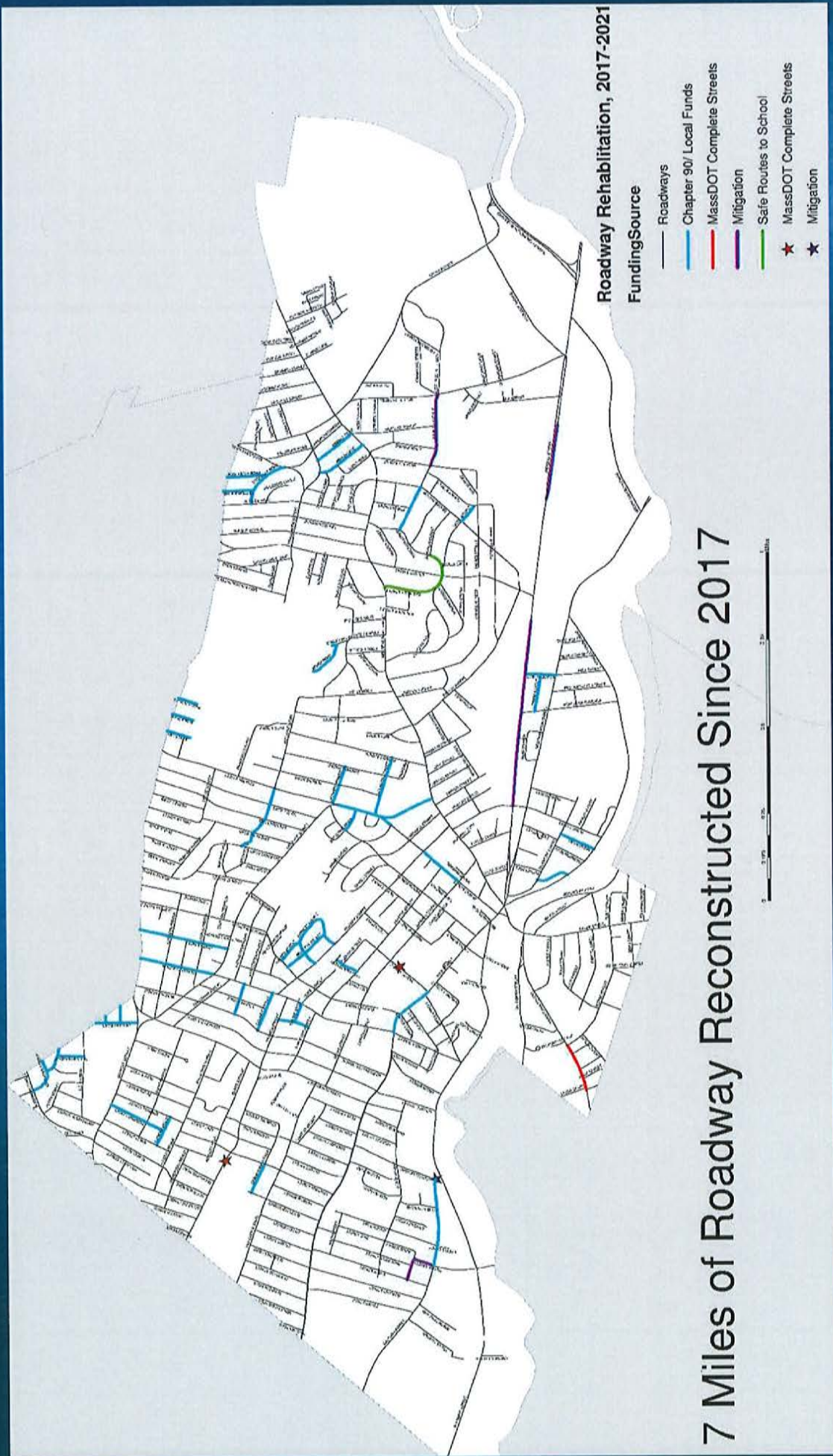
Pavement Management Update

Status

- All field work complete
- Draft mapping being reviewed
- Updating for recent mill/overlay work
- Expect PCI to be similar or lower than 2016

Pavement Management Goals

Road Reconstruction Progress



2022 Road Reconstruction Program

Developing a “Universe of Projects”

- 2012 & 2016 Pavement Management Inventory
- Windshield surveys
- Maintenance records
- Capital projects (proposed and completed)
- Resident input (work orders)

2022 Road Reconstruction List

Developing the List

- Prioritize streets in greatest state of disrepair
- Consider project readiness
- Develop a program that fits within funding constraints
- Continue ongoing preventative maintenance
- Consider alternative funding sources
- Consider geographic equity

2022 Road Reconstruction

Utility Coordination & Capital Planning

- Water main replacement program (1,500 feet)
 - Bromfield Street
 - Highland Ave. (Olney St. to Lexington St.)
- Sewer and drain repairs and replacements
 - Robbins Road Extension
 - Howard Street (200 feet)
- Substandard water service replacements—90 locations
- National Grid gas main replacements (3 miles)

2022 Road Reconstruction List

Proposed Streets

- Boylston Street (Fairfield Street to Porter Street)
- Chester Street
- Locke Street
- Chapman Street (Main Street to Highland Ave.)



2022 Road Reconstruction List

Boylston Street—Fairfield Street to Porter Street



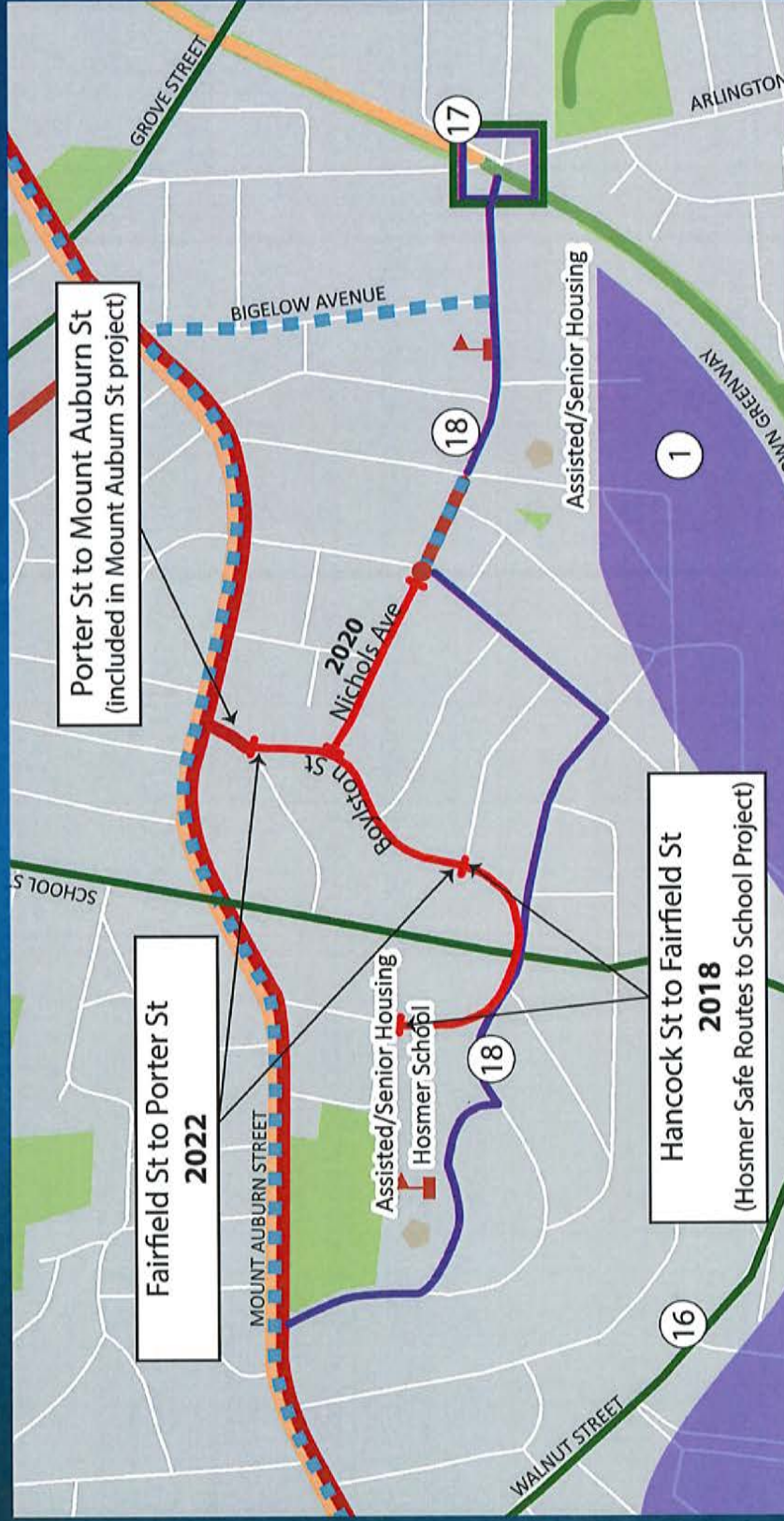
Boylston Street

- Gas main replacement in 2017
- Sewer replacement in 2012
- Alligator cracking, trench patches
- Concrete sidewalks in poor condition
- No curb

990 feet long – 34 feet wide

2022 Road Reconstruction List

Boylston Street—Fairfield Street to Porter Street



- Pedestrian route between Mt. Auburn Street and Watertown/Cambridge Greenway
- Access to Hosmer School

2022 Road Reconstruction List

Boylston Street—Fairfield Street to Porter Street



- Potential location for bioretention

[Green Infrastructure Planning Grant](#)

2022 Road Reconstruction List

Chester Street



Chester Street

- Gas main replacement in 2016
- Water main replacement in 2014
- Alligator cracking, trench repairs
- Asphalt sidewalks in poor condition
- No curb

650 feet long – 24 feet wide

2022 Road Reconstruction List

Locke Street



Locke Street

- Gas main replaced in 2016
- Alligator cracking, pavement buckling, pavement unraveling
- Concrete sidewalks in poor condition
- No curb

840 feet long – 28 feet wide

2022 Road Reconstruction List

Chapman Street—Main Street to Highland Ave.



Chapman Street

- Gas main replacement in 2016
- Sewer repairs in 2020
- Alligator cracking, cross trenching
- Concrete and asphalt sidewalks
- No curb

875 feet long – 24 feet wide

2022 Road Reconstruction List

Next Steps

- Review driveways with DCDP
- Review street trees with Tree Warden
- Review water services and fire hydrants
- Green infrastructure review
- Finalize concepts, where applicable
- Complete Streets working group review
- Supplemental survey, where necessary
- Notify residents of future work
- Maintain schedule for December bid

Long Streets and Collector Program

Description

- \$1.5 million supplemental funding from Town Council for longer streets & collectors
- Short list streets:
 - Waverley Ave. *Under construction*
 - Highland Ave.
 - Morse Street
- Considerations
 - Future utility needs
 - Traffic volumes
 - Connection to existing bike and pedestrian facilities, and important destinations

Long Streets and Collector Program

Highland Ave.

- Included in Town's *Complete Streets Prioritization Plan* (#11) for pedestrian safety improvements
- Pedestrian facility and complete streets priority area in *Bicycle and Pedestrian Plan*
- Key walking route to Cunniff School & Middle School
- Preparation for temporary Watertown High School at Moxley Field

<http://www.watertowndpw.org/DocumentCenter/View/303/Watertown-Complete-Streets-Plan-Final>

Long Streets and Collector Program Highland Ave.

- 2016 gas main replacement
- 2021 water main replacement—Lexington to Olney
- 2021 water service repairs



Long Streets and Collector Program Highland Ave.

- Next steps
 - Survey
 - Complete Streets review
 - Develop concept plans
 - Consider bidding with Chapman Street for work in 2022 construction season

Long Streets and Collector Program

Morse Street

- 2014 gas main replacement
- 2020 improvements at Watertown St.
- 2021 sewer repairs (planned)
- 2021 water service replacements (planned)



Long Streets and Collector Program Morse Street & Fifth Ave.

- Connection to Charles River Paths
- Alternative Route around Galen Street/Watertown Square



Long Streets and Collector Program

Morse Street & Fifth Ave.

- Wide width on Fifth Ave. provides opportunities for improved bike/ped accommodations



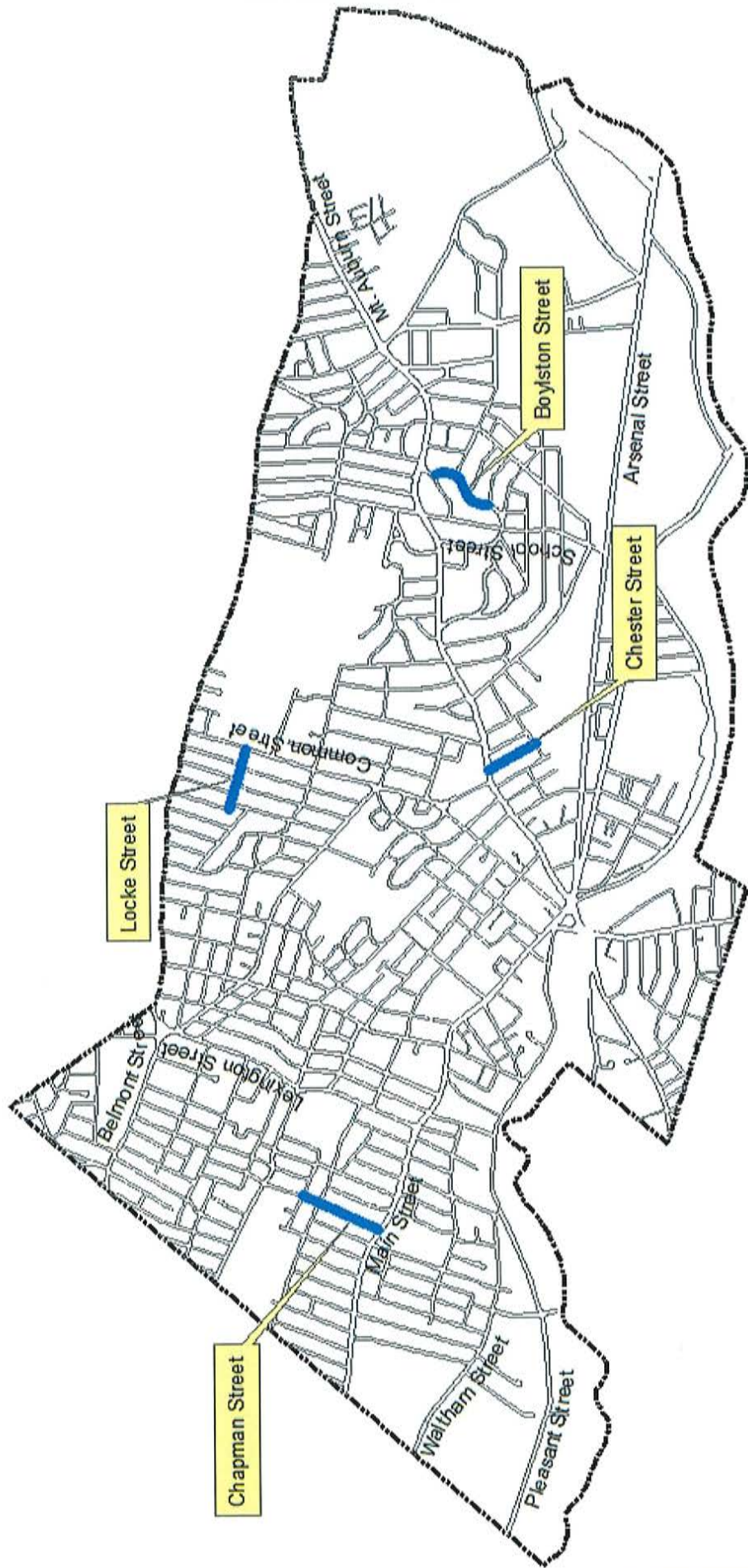
Long Streets and Collector Program

Morse Street & Fifth Ave.

- Next steps
 - Gas main replacement on Fifth Ave.
 - Complete sewer repairs
 - Sub-standard water service replacements
 - Complete Streets review
 - Develop concept plans
 - Bid for 2023 construction season

2022 Road Reconstruction List

Proposed Streets



Recommendations

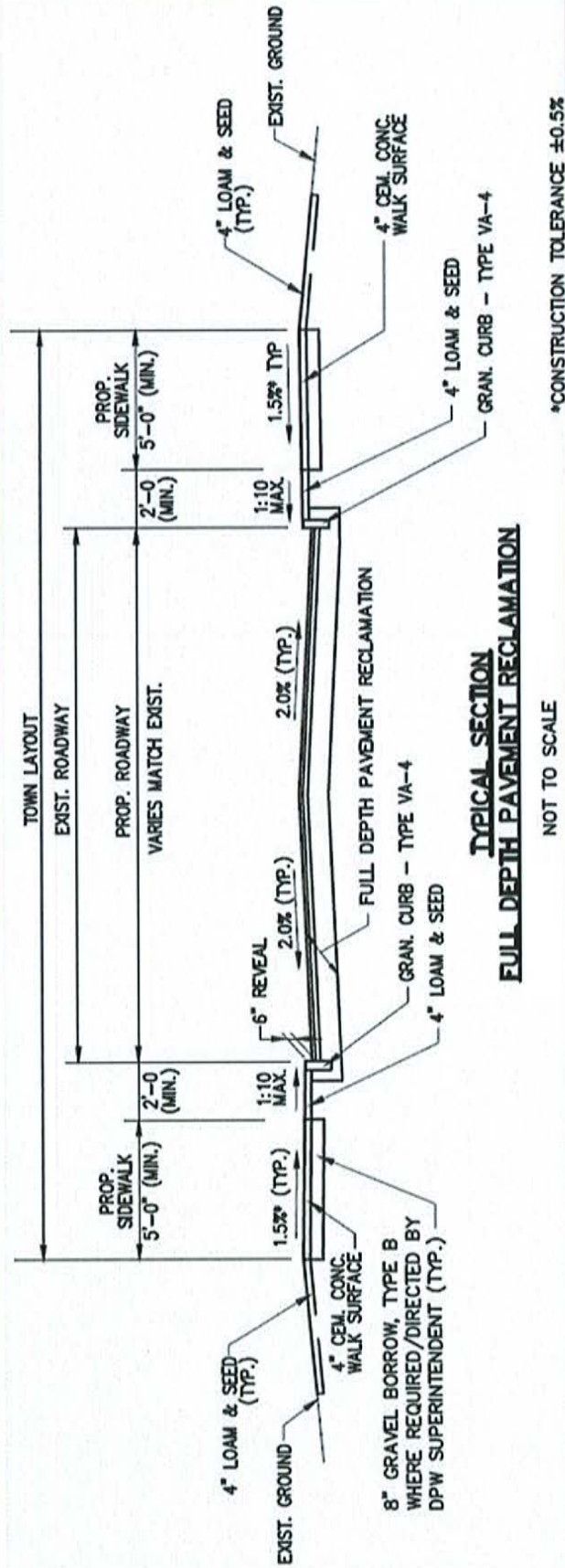
Proposed Streets

- 2022 Road Program Streets
 - Boylston Street (Fairfield Street to Porter Street)
 - Chester Street
 - Locke Street
 - Chapman Street (Main Street to Highland Ave.)
- Long Streets/Collector Program
 - Highland Ave.--2022
 - Morse St. & Fifth Ave.--2023

Recommendations

For Further Consideration

- Accelerate street and sidewalk repairs
 - Account for price escalations in capital planning
 - Dedicate funding for drainage/stormwater repairs
 - Increase mill/overlays as a pavement preservation technique
- Review bidding processes and requirements to complete more work per year



Questions?

<http://www.watertowndpw.org/191/Annual-Road-Program>



TOWN OF WATERTOWN

DEPARTMENT OF PUBLIC WORKS
124 ORCHARD STREET
WATERTOWN MA 02472

(P) 617-972-6420
(F) 617-972-6402

Gregory St. Louis, PE
Superintendent

TO: Honorable Council Members of Committee on Public Works

FROM: Matthew I. Shuman, P.E., Town Engineer

DATE: October 18, 2021

RE: Pavement Preservation and Sidewalk Maintenance Work

Please see the list of pavement and sidewalk maintenance work performed during 2021, listed below:

<u>Pavement Preservation</u> (Mill and Overlay)	<u>Sidewalk Repair</u>
• Auburn Court • Bancroft St. (Lexington St. to Edenfield Ave.) • Bancroft St. (Westminster Ave. to Waverley Ave.) • Barnard Ave. (Orchard St. to Columbia St.) • Belmont Street (Waltham Line to Harrington Street) • Channing Road (Orchard Street to Mason Road) • Desmond Ave. • Dexter Ave., Nichols Ave. to Willow Park • Duff Street (Madison Ave. to Belmont Street, east side only) • Emerson Rd. (Main St. to #34 Emerson Rd.) • Evans St. (#70 Evans St. to #113 Evans St.) • Fairview Ave. (Wilson Ave. to Hall Ave.) • Fitchburg Street (Waverley Ave. to Springfield Street) • Garnet St. (Irving St. to Phillips St.) • Harnden Ave. (Whitney Street to Waverley Ave.) • Homer St. • Hudson St. • Irving St. (N. Beacon St. to Mt. Auburn St.)	• California Street at Fifth Ave. • Watertown Street at Morse St., Belknap Ter., and Fifth Ave. • Whites Ave. • York Ave. (Harnden Ave. to Lowell Ave.) • Marcia Road • Garnet Street, between Irving St. and Phillips Street • Town Hall • Library • Fairview Ave. (Bradford Rd. to Hardy Ave.) • Dexter Ave. (vicinity of #199) • Bigelow Ave. (vicinity of #25) • Yukon Ave. • Robbins Road Extension • Bailey Road

- | | |
|--|--|
| <ul style="list-style-type: none"> • Lexington Street (Warren St. to Bradshaw St.) • Marlboro Terrace • Mason Road • Robbins Rd. (Orchard St. to Columbia St.) • Rose Ave. (Madison Ave. to Carey Ave.) • Sparkill Street (Grant Ave. to Belmont Street) • Spring St. (Summer St. to Palfrey St.) • Standish Road (22 Standish Road to Bellevue Road, Bellevue Road to Locke Street) • Stuart Street • Sycamore Street (#226 to #256 Sycamore Street) • Washburn St. (Franklin St. to Otis St.) • Whites Ave. (Main St. to Hudson St.) • Whitman Rd. (Main St. to Town line) • Worcester Street (Waverley Ave. to Springfield Street) • York Ave. (Lowell Ave. to Harnden Ave.) | |
|--|--|



George J. Proakis
City Manager

CITY OF
WATERTOWN
Office of the City Manager

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6465
www.watertown-ma.gov
citymgr@watertown-ma.gov

To: Honorable City Council

From: George J. Proakis, City Manager *GJP*

Date: September 8, 2022

RE: Agenda Item – Transfer of Funds Request

As you know, Goal I of the City's Open Space and Recreation Plan reads as follows: "Improve the amount, accessibility and condition of Watertown's Recreational Resources." Additionally, the Honorable City Council's Fiscal Year 2023 Budget Policy Guideline II.E. reads as follows: "With the creation of the Acquisition of Land/Open Space Stabilization Fund, continue working on plans with the City Council to meet the identified and ongoing need for acquisition of land for open space and recreational use; including proposals submitted to the Community Preservation Committee."

Given the above and as you are aware, the City has been working on the possibility of acquiring property on Stanley Avenue – Parcel 807 1B 1A. We are very excited about this potential purchase of this property and the impact this property could have on the residents of Watertown. This site (often called "Walker's Pond" or "Lot 8") includes the entirety of the small Walker's Pond as well as adjacent green space and open paved areas that can be used for recreation purposes. In the few short weeks that I have been here, there have been many community members that have noted the need for more open space and recreation space in Watertown. This site was identified in past years by the Conservation Commission as a site for preservation. During the community vote on the Community Preservation Act (CPA), there was discussion about the site as a location for possible use of CPA funds for purchase and/or improvement of the site.

This site does include a small portion of land over the city line in Waltham. As you know, we are currently awaiting legislative action on a home-rule petition that will allow the city to purchase the entire site, including the land in Waltham.

I expect to request that your Honorable Council approve budget amendments and any other necessary legislative steps to complete this purchase by the end of the calendar year. In the meantime, we are completing the negotiation of a purchase and sale agreement, and are seeking to place a \$100,000 deposit with the sellers to secure exclusive purchase rights.

Therefore, I respectfully request the attached Transfer of Funds be placed on the September 13, 2022 City Council Agenda. This will allow the City to use these funds for the deposit upon execution of a purchase and sale agreement.

Thank you for your consideration in this matter.

cc: Steven T. Magoon, Director of Community Development and Planning/Assistant City Manager
Thomas J. Tracy, City Auditor/Assistant City Manager for Finance
Mark R. Reich, Esquire, KP Law

TRANSFER AMOUNT \$100,000

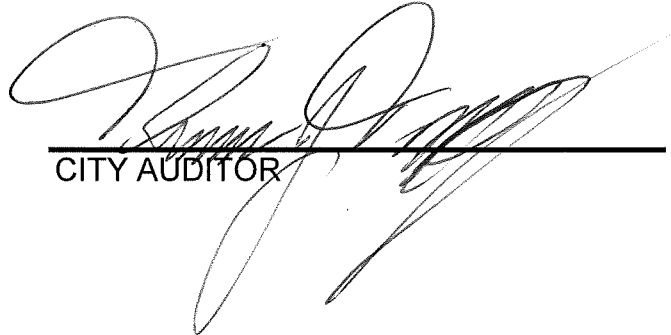
FROM:	FY 23 CITY COUNCIL RESERVE FUND 0111152-570780	\$ 100,000
TO:	FY 23 ACQUISITION OF LAND/PROPERTY 0194000-580950	\$ 100,000

I hereby certify to the availability, authority of funding source, mathematical accuracy and appropriate fiscal year.

DATE

9/3/22

CITY AUDITOR





Watertown City Council

Administration Building
149 Main Street
Watertown, MA 02472
Phone: 617-972-6470

ELECTED OFFICIALS:

Mark S. Sideris,
Council President

Watertown City Council Parks and Recreation Committee

Report of the Meeting of August 9, 2022

Vincent J. Piccirilli, Jr.,
Vice President &
District C Councilor

John M. Airasian
Councilor At Large

Caroline Bays
Councilor At Large

John G. Gannon,
Councilor At Large

Anthony Palomba,
Councilor At Large

Nicole Gardner,
District A Councilor

Lisa J. Feltner,
District B Councilor

Emily Izzo,
District D Councilor

The Committee convened on August 9, 2022 at 5:45 pm in the City Councilors' Office. Present were Councilors Anthony Palomba, Chair, Lisa Feltner, Vice-Chair, Caroline Bays, Secretary, and Jonathan Bockian.

Councilor Palomba stated that the purpose of the meeting was to interview Jonathan Bockian for his reappointment to the Community Preservation Committee for a term to expire on February 1, 2025.

Councilor Feltner did not feel it was appropriate for the Parks and Recreation committee to be responsible for the confirmation of the Community Preservation Committee members and suggested that instead the Economic Development and Planning Committee should be responsible for the appointment interviews since the responsibility of the committee was very broad and included affordable housing. The committee suggested discussing this at the next City Council meeting.

Councilor Palomba congratulated Mr. Bockian for completing the first round of CPC proposals and monetary awards and asked Mr. Bockian what his thoughts were regarding the process. Mr. Bockian was happy with the proposals and the awards but felt that the application process was slightly confusing, particularly regarding what criteria a project must meet to be considered. Councilor Palomba asked what changes he would recommend. Mr. Bockian said that although he was proud of the plan the CPC laid out, he felt that in future rounds he would like to see some changes which include clarifying whether a project is eligible for CPC money before it is considered for funding, considering conditional approval of a project and finally, increasing public engagement in the process. In addition he wants applicants to have more resources about how to put together a well-developed plan. He noted that they have already accepted the next round of applications and eligibility will be determined in September. Chair Palomba suggested having a rolling timeline.

Chair Palomba and Councilor Feltner thanked Mr. Bockian for all his hard work.

ACTION ITEM: Councilor Feltner made a motion, seconded by Councilor Bays, to recommend that the City Council reappoint Mr. Bockian to the Community Preservation Committee for a term to expire on February 1, 2025. The motion passed 3-0.

The meeting adjourned at 6:10 pm

Minutes submitted by Caroline Bays