



Procurement #: 44044>

CITY OF PROVIDENCE, RHODE ISLAND

Department: Providence Water

RFP Title: Replacement & Rehabilitation of Water Mains & Appurtenance within Western Johnston & Scituate Contract 1-24

Opening Date: 03/25/2024

Addendum #: 2

Issue Date: 03/11/2024

The purpose of this addendum is to add additional information.

Providence City Hall
25 Dorrance Street
Providence, RI 02903

**PROVIDENCE WATER
2024 CONSTRUCTION SEASON
REPLACEMENT & REHABILITATION OF
WATER MAINS AND APPURTENANCES**

**CONTRACT 1-24
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON & SCITUATE, RI**

ADDENDUM NO. 2

To: All contract Documents Holder of Record

All Prospective Bidders.

Date Issued: **Monday, March 11st, 2024.**

BID Opening: **Monday, March 25th, 2024, 2:15 pm**

Bid Opening Location Board of Contract and Supply Meeting
City Council Chambers
Providence City Hall
25 Dorrance Street
Providence, Rhode Island 02903

Written Question Due: Wednesday, February 28th, 2024

A. General Note:

This Addendum No. 2, including all referenced attachments, modifies, amends, and supplements designated parts of the Contract Documents to the above-referenced project and shall be part of the Contract Documents as provided in the “Instructions to Bidders” for the above-referenced project. Acknowledge receipt of this Addendum by inserting its number and date on page 00 41 00 – 1 of the Bid Form. Failure to do so may subject the Bidder to disqualification.

The Contract Documents are hereby modified, amended, and supplemented as follows:

B. Attachments

The following attachments are included with this Addendum:

1. Agenda Prebid Meeting Dated Thursday, February 22nd, 2024.
2. Specification Section 00000---BCS Terms & Requirements for Bidding

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3. Specification Section 00300 – List of Approved Materials.
4. Specification Section 004100 – Bid Schedule
5. Specification Section 01025 – Measurement and Payment.
6. Specification Section 08000 – Paving, Surfacing, and Permanent Repairs to Streets and Sidewalks.
7. Bid Plans Revision 1.

C. Written Questions and Comments Submitted

1. **Question:** What is the Project completion time?

Response: The water structure must be complete on construction season 2024. For the final restoration can be completed spring 2025.

2. **Question:** Can you explain paving? Description in spec. doesn't seem to match Bid Item description in M&P. Are we putting Temp. Pave down? How paid?

Response:

For the temporary pavement shall not be measured separately for payment, but the costs thereof shall be included in the unit price bid for the applicable work items under "PIPELINE SYSTEMS". According with our specifications in Section 01-01000 Section 7.5.2 "To account for settlement, the Contractor at his discretion (and at no additional expense to the OWNER) may install a two (2") inch temporary pavement and then remove it to apply full depth pavement after a settlement period."

Final restoration shall be in accordance with Section 0800 of Specifications and shall be in accordance with the corresponding town requirements. Past town requirements have been.

3. **Question: Item 6-Gravel Borrow.** Is this for road base gravel? If not, how is road gravel paid for?

Response: When trench excavation removes solid rock in place, detached rock, ledge, or boulders measuring one (1.0) cubic yard or more; gravel borrow from off-site shall be brought in for backfilling to replace the unsuitable materials and be paid by ton.

-END OF ADDENDUM NO. 1-

ATTACHMENT 1

**PROVIDENCE WATER
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REPLACEMENT & REHABILITATION OF
WATER MAINS AND APPURTENANCES**

**CONTRACT 1-24
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON & SCITUATE, RI**

**PRE-BID CONFERENCE MEETING
MINUTE**

Date: February 22nd, 2024 Time: 9:30 AM

Location: Microsoft Teams Online Meeting Platform, PW EOC Conference Room

Attendees: Christopher Williams, Brian Parker (AGI Construction), Paul Heslam (EJP), Steve Biszko (Biszko Contracting Corp), Justin Paulo, Richard Wilkins, (D'Ambra Construction), Arthur Scothor (DiGregorio Corp.), Tom Simbro (CB Utility), Seth O'Connor, Norm Ripstein, and Carolyn Diplan (PW)

A. General Note:

It is expressly understood by all attendees that if there are any inadvertent conflicts in this Pre-Bid Conference with the project Drawings and Specifications, that the Drawings and Specifications and any issued Addenda shall govern.

B. Opening Remarks:

1. This is the Pre-Bid Conference for the following Providence Water 2024 Contract:

a. Water Main Distribution Expansion Project Western Johnston High Service Expansion - Johnston And Scituate, RI Contract 1-24

- (PW Project No. 20216)
- **Western Johnston and Scituate, RI**
- Rehabilitation Method – **Installation new transmission and distribution water mains.**

Bidders are directed to refer to the contractor qualification requirements in “Section 00200 – Instructions to Bidders, Article 3 - Qualifications of Bidders”.

2. Bidders are advised that the contract documents may be obtained by contacting the City Purchasing Department, as follows:

City Clerk Room 311
Providence City Hall
25 Dorrance St
Providence, RI 02903

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401-680-5264

Please direct questions relative to the bid opening, bidding process, forms, and how to submit a bid package to the City Clerk. Please use the subject line “Water Main Distribution Expansion Project Western Johnston High Service Expansion - Johnston And Scituate, RI Contract 1-24”. **To obtain a complete bid package please contact the City Clerk using the information listed above.**

3. Questions regarding the Contract Specifications are to be directed in writing to both Mr. Norman Ripstein and Mrs. Carolyn Diplan, by email at normanr@provwater.com and. carolynd@provwater.com **Addenda** will be issued to include the proceedings of this Pre-Bid Conference, all questions received by specified deadlines, and will address any changes or clarifications made during the bidding period. All inquiries must be submitted in writing and transmitted via e-mail. For **Contract 1-24, Western Johnston High Service Expansion**, the deadline for inquiries and questions from the Contractors is **Wednesday, February 28th, 2024**, an addenda will be issued no later than **Friday, March 1st, 2024**.
4. The Attendees List and Minutes/Meeting Report for this Pre-Bid Conference will be sent via e-mail to all meeting attendees, and vendors who have taken out the contract documents from Providence City Hall and will be issued in an addendum.
5. It is the responsibility of all potential bidders to make sure they have received all **Addenda** prior to bidding that and their bids are received on time and at the location listed above.
6. Bids will be received by the Department of the City Clerk, City Hall, Providence, Rhode Island, until **2:00 P.M.**, on **Monday, March 11th, 2024**. At 2:15 PM, the Bids will be publicly opened and read aloud in the City Council conference room on the Third Floor of City Hall.
7. Project Schedule: Reference is made to Section 00100, Invitation to Bid, of the Contract Specifications, regarding the intent to award a one (1) year contract for **CONTRACT 1-24**.
 - **Bidders are not restricted from bidding on multiple contracts and may bid on all of the upcoming 2024 contracts if they so choose.**
 - All water main and service related work, including **full depth asphalt restoration of street excavations** shall be completed during the 2024 construction season. The intent is to complete as much permanent restoration (**loam & seeding grassy areas disturbed during construction operations**) within the 2024 construction season. All excavations opened within a construction season must have restoration completed

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before the winter closeout of that construction season, and/or as directed by Providence Water.

8. Water Main Project Descriptions - General Scope of Work:

- Reference the attached GIS color contract specific area maps.
- The Water Main Distribution Expansion Project area for Contract 1-24 is located within the Western Johnston and Scituate, RI with approximately furnish and install 5,850 LF of 8" ductile iron and approximately 8,960 LF of 16" ductile iron.
- PW plans to rehabilitate water mains **system** (via installation ductile iron), and install valves, hydrants, and appurtenances within the contract limits.
- Bidders are reminded to refer to the contractor qualification requirements in "Section 00200 – Instructions to Bidders, Article 3 - Qualifications of Bidders".

9. Contract 1-24 will be funded by Providence Water through the City of Providence.

Therefore, the following requirements apply:

- **10% / 10 % MBE/WBE**
- **Prevailing Wages Rates: Davis Bacon Act**
- **American Iron and Steel Provisions**

**Contractors are reminded to submit AIS Certification Letters with their Materials Submission Package, prior to start construction.*

The projects are subject to **MBE/WBE participation** by the City of Providence Minority Compliance Office. The City of Providence requires **20%** of the construction cost to be utilized for MBE/WBE companies (10% for each). Providence Water recommends that Contractors periodically contact the MBE/WBE Office and maintain records documenting their efforts to obtain and retain MBE/WBE Subcontractors for select work under these contracts.

Approval of the MBE/WBE Minority Compliance Plan by the Rhode Island Department of Administration, Office of Diversity, Equity and Opportunity (ODEO) will not be required with the bid submission. It shall be obtained prior to construction by the successful bidder. **However, it should be noted that the City of Providence Minority and Women Business Enterprise Program (MBE/WBE) forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures will be considered incomplete.**

C. 2024 Contracts Overview:

PROVIDENCE WATER 2024 CONSTRUCTION SEASON REPLACEMENT & REHABILITATION OF WATER MAINS AND APPURTENANCES

1. General Construction Notes:

- Zinc Coated DI: All ductile iron pipe and fittings must be zinc coated and conform to the requirements of the American Iron and Steel Act.
- Poly-encasement of the main will not be required in these contracts.
- Where traffic loops are encountered, the limits of permanent street restoration will extend to include the complete repair and restoration of these traffic control devices.
- The Contractor shall respond to all emergency calls immediately and commence emergency repair work at the job site within one (1) hour of being notified by the OWNER.
- Water mains, water services, and hydrant runouts that are disconnected from the system and abandoned in place shall be capped at ALL openings.
- A water facility shall be considered mismarked if its actual location is found to be greater than three feet from the DIGSAFE marked field location.

2. Valve Operation

- With the exception of divisional valves separating pressure zones, PW has asked all water main rehabilitation Contractors working in the system to verify that all valves are reopened before concluding work within their respective contract areas.
- All valve installations and coupling connections at work limit terminations shall be restrained to the new piping for future work in adjacent areas.

3. Primary Roads & Concrete Base

- In terms of payment, there is no delineation between Primary and Secondary roads in the Bid Tab. Contractors should carry the appropriate costs required to work on a congested Primary Road with multiple utilities and heavy traffic. No additional compensation will be disbursed.

4. Storm Water & Erosion Control

- Drainage basins/inlets must be protected with silt/sedimentation barrier, and not blocked by temporary bypass. Contractor shall maintain these storm water and erosion control barriers throughout the project. Contractor will be responsible to clean drainage infrastructure if non-compliant. PW inspectors have been instructed

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to stop work if these sedimentation barriers are not in place or not functioning properly.

5. Drainage Structures

- PW previously received property damage claims that stemmed from both a major storm event and the functionality of the existing drainage system in other contract areas. In light of these recent events, PW will be recording the status and functionality of all storm water facilities during the pre-construction phase site walks conducted prior to construction kickoff for all water main projects in the future.
- The Contractor is advised to conduct their own pre-construction assessment (photographs/videos) for their own benefit and to furnish the documented conditions to PW upon request.
- Concrete truck washout shall not be discharged into, adjacent, or upstream of the drainage system.

6. DPW Notes & Requirements:

- Work may not begin before 7:00 am. If off-hours work is required, the contractor must seek permission in advance from both Providence Water and DPW.
- All excavations must be sawcut; tearing of pavement is not allowed.
- Any sawcuts that haven't been excavated or patched shall be crack sealed prior to winter shutdown.
- COMPACT in 6-inch lifts. Patches shall not deviate more than .25" above or below adjacent road grade.
- Temporary Paving must be completed by the end of each workday. At the discretion and approval of the municipality, plates may be allowed overnight but must be pinned and bermed. Contact the DPW Director (or the appropriate municipal authority) from the proper City/Town before plating.
- The Contractor shall maintain all temporary patches in a good state. The Contractor shall repair any temporary patch at the direction of the OWNER. Failure to comply will result in permit revocation.
- Bicycle and Pedestrian traffic must be maintained along streets in the project area.
- No stockpiling of material in the public right of way.

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- Equipment may not remain on roads overnight. Residents pay a premium to park along the roads. Contractors must have a storage yard offsite.
- Contractor shall not park equipment on the sidewalks.
- NO PORTAJOHNS are allowed in the public Right-Of-Way, they must be stored offsite (Contractor may tow facilities and store off site during non-working hours).
- Prior to construction startup, contractors are reminded to apply for road opening permits through proper Municipally Authorities. No work shall commence without the appropriate DPW issued permits.

7. Traffic & Requirements:

- Work shall generally include traffic control: signage, flaggers, police details as needed to insure a safe workplace for workers, pedestrians, and automobile traffic.
- Proper safety precautions shall be taken including traffic cones, signage, installation barriers, barrels, cones, safety tape and other devices around the overall and individual work sites to bar and protect pedestrian and vehicular traffic.
- Prior to starting any work on streets/roads shall coordinate with the individual City or Town's Traffic Engineer or DPW.
- No portion of any street shall be closed to traffic unless written permission of the proper Civil Authorities has first been obtained. Obtain authorization for street closures "Construction Street/Sidewalk Closing Permit" from the proper City, Town, or State Authorities.
- The Contractor shall obtain and pay for any and all permits which may be required and make arrangements for and coordinate any required inspections. Contact the Traffic Safety Manager from each respective city or town for appropriate form, fees, and clarification of requirements.
- Traffic control devices (signals, loops, CCTV, etc. and their associated conduits), street lights, sewer, and drainage are not marked by Dig Safe. Traffic control device conduits are typically shallow, located fairly close to the road surface. Contact Cranston DPW Traffic for available as-built information on traffic control device conduits within the project limits.

D. Construction Coordination, Phasing, & Scheduling

1. Customer Contact Information

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- Through the course of construction, the Contractor may obtain contact information from property owners, residents, and/or tenants in order to facilitate construction operations (particularly in relation to bypass piping and temporary service connections). Contractor shall tabulate this information in a spreadsheet, formatted with the following headings: name, owner/resident/tenant, address, phone number, and email (if available). A digital copy of this spreadsheet shall be furnished to the OWNER by the completion of construction or at other such intervals as requested by the OWNER, so that OWNER can update contact databases with newly acquired information.

2. Rhode Island Energy (RIE) Construction – Coordination

- RIE personnel will be monitoring the projects for potential encroachments and will work closely with the successful bidder to ensure compliance with their requirements. The successful bidder is required to inform the RIE field representative of any issues encountered or foreseen within their trench excavations.
- RIE may have abandoned gas mains (within the projects limits) that have been leased as conduits for telecommunications (fiber optics).
- RIE will coordinate the removal of unoccupied abandoned mains that encroach upon our existing water mains at their cost.
- RIE will be invited to both the Pre-Construction meetings and on an as needed basis to bi-weekly project meetings once construction has begun.

3. Local Business – Coordination

- The Contractor shall coordinate their work schedule, shutdowns, and traffic control plans with restaurants, schools, shopping centers, doctor's offices, and all other businesses in the project area.

4. RI Public Transit Authority (RIPTA) – Coordination

- The Contractor shall coordinate their work schedule, shutdowns, and traffic control plans with RIPTA in regard to their bus routes and stops in this project area.

5. RIDOT – Coordination

- The Contractor shall submit traffic control plans and seek permits from RIDOT for all state-maintained roads.

For a complete listing of State-maintained roads please contact RIDOT or visit their website at:

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www.dot.ri.gov/about/maproom/State_Maintained_Roads.php

- Per PW coordination correspondence with RIDOT, there are no State-maintained roads within the contracts' limits.

However, it is still the successful bidder's responsibility to coordinate with RIDOT to confirm state-maintained roads within their project limits. The preceding list should not be construed as complete nor binding in any fashion.

6. Traffic Control / Police Details

- Contractors shall schedule the details with the respective police departments. Police details shall be paid by the Contractor and reimbursed by PW per pay period without markup. For reimbursement purposes, the Contractors shall submit invoices copies from the respective cities and towns with copies of daily detail vouchers for verification.
- Should a police detail be unavailable, Contractors may use flagmen. Flagmen will be compensated by Providence Water per pay application. PW will reimburse subcontractor flagging invoices as a pass through without markup. If the successful bidder chooses to use his own forces for flagging, they will be compensated based upon certified payroll wages, without markup.
- Contractors shall consult with the local police departments for pertinent traffic control needs.
- Should the bidder intend to meet a portion of MBE/WBE minority compliance goals with use of a State of Rhode Island certified MBE/WBE contractor, the use of the flagging allowance cost in the bid form in calculating compliance goals is permitted. **However, the excessive use of flagging services to artificially inflate minority participation to meet contractual requirements is prohibited.**
- For purposes of bonding and award, lump sum allowances for police and flagging are included in the bid form. The invoices for these costs will be paid in monthly payment requisitions, against these allowances, as a pass-through with no markup.
- Separate compensation shall not be disbursed for the costs associated with bonding, administration, and coordination of both police details and flagging services.

E. Street and Sidewalk Restoration

1. Full Depth Asphalt Street Pavement

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- All paved areas disturbed in these contracts shall require full depth hotmix asphalt restoration.
- WMR Contracts shall install full depth hotmix asphalt to match the existing street pavement thickness (minimum of four (4”) inches).
- To account for settlement, the Contractor at his discretion (and at no additional expense to the OWNER) may install a two (2”) inch temporary pavement and then remove it to apply full depth pavement after a settlement period.
- Temporary pavement markings shall be furnished at disturbed locations, as an interim measure until permanent markings can be installed following permanent street restoration. The Contractor shall maintain these excavations, at no additional cost, throughout the winter season. OWNER does not allow cold patch for temporary trench restoration over winter.
- **WMR Contractors are responsible for all permanent restoration of streets, , driveways, and grassy areas. Driveways shall be temporarily restored with 2” asphalt. After 60 days, driveways will be permanently restored in kind, and street sections disturbed during construction will be restored via a 4” permanent restoration.**

2. Pavement Maintenance and Warranty: Streets and Driveways:

- The WMR Contractor shall be responsible for any failures associated with his water main rehabilitation work, for a period of one (1) year from the date of installation.
- The WMR Contractor shall warranty failures associated with restoration of streets, sidewalks, and driveways for a five (5) year period.

3. Minimum Standards for State and Municipal Road Repair for Utility Work:

The City of Providence has adopted the permanent street restoration standards of the “Rhode Island Utility Fair Share Roadway Repair Act” legislation, as delineated in RIDOT’s - Minimum Standards for State and Municipal Road Repair for Utility Work, (Appendix G in the bid documents). Potential bidders are reminded that these requirements apply to all utility work conducted in the City including this project.

Final street pavement restoration shall include two (2) inches of micro-milling and resurfacing all impacted travel lanes and/or shoulders for their full width using Class 9.5 or 12.5 hot mix asphalt (as directed by OWNER). Impacted travel lanes and/or shoulders are the roadway pavement areas that the utility work trench(es) are located within. In addition to the roadway pavement areas impacted by the utility work trenches, this final pavement restoration shall also apply to all travel lanes and/or shoulders impacted by

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REPLACEMENT & REHABILITATION OF
WATER MAINS AND APPURTENANCES**

either lateral or longitudinal utility work trenches when the trenches are less than or equal to one hundred (100) feet longitudinal from one another, including the sections between trenches, so that no section(s) of roadway pavement less than or equal to one hundred (100) feet shall remain unpaved. This will provide a continuous final pavement between the utility work trenches.

It is Providence Water's intent to comply with this legislation, meet the expectations of the City of Providence, and the permanent restoration quantities in the bid form reflect this objective. Furthermore, all excavations including cleaning and lining pits shall be milled and overlaid.






F. Special Bidding & Contractual Notes

1. Criminal Background Check (BCI) shall be required for all Contractor employees. PW shall provide badges for all contractor employees designated to enter into homes and buildings.

Attachments:

- Contract 1-24 Western Johnston High Service Expansion, Johnston and Scituate GIS Plan.
- Sign-in Sheet PreBid meeting.



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|  PROVIDENCE WATER Tap Water Delivers |  |  |
| Contract 1-24 Western Johnston High Service Expansion Johnston, RI | | |
| Date: 1/25/2024 | | |
| Legend  Proposed Project Limits | | |
| 0 700  US Feet | | |

WATER MAIN REHABILITATION PROGRAM

Replacement/Rehabilitation of Water Mains and Appurtenances within Providence Water's Distribution System

Sign-In Sheet

Project: Replacement & Rehabilitation of Water Mains & Appurtenance
Within Western Johnston & Scituate Contract 1-24
Project No.: 20216
Subject: Pre-Bid Conference
Meeting Date: Thursday, February 22nd, 2024

| Name – Print | Company | Signature |
|----------------------|-----------------------|--------------------|
| NORM RIPPSTEIN | PWSB | Norman Ripstein |
| CAROLYN DIPLAN. | PWSB | Carolyn Diplan. |
| CHRISTOPHER WILLIAMS | AGI CONSTRUCTION. | VIA TEAMS MEETING. |
| Seth O'Connor | PWSB | Seth O'Connor |
| PAUL HESLAM | EJP | VIA TEAMS MEETING. |
| JUSTIN PAVLO | D'AMBRA CONSTRUCTION. | VIA TEAMS MEETING. |
| RICHARD WILKINS | D'AMBRA CONSTRUCTION | VIA TEAMS MEETING. |
| STEPHEN BISZKO | BISZKO | VIA TEAMS MEETING. |
| ARTHUR SLOTHOR | DiGREGORIO CORP. | VIA TEAMS MEETING. |
| BRIAN PARKER | AGI CONSTRUCTION. | VIA TEAMS MEETING. |
| TOM SIMBRO | CB UTILITY. | VIA TEAMS MEETING. |
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ATTACHMENT 2



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

REQUEST FOR PROPOSALS

Item Description: **REPLACEMENT & REHABILITATION
OF WATER MAINS & APPURTENANCE
WITHIN WESTERN JOHNSTON CONTRACT 1-24**

Procurement/MinuteTraq #:

Date to be opened: **2:00 pm on Monday, March 11th, 2024.**

Issuing Department: **Providence Water**

QUESTIONS

- Please direct questions related to the bidding process, how to fill out forms, and how to submit a bid (Pages 1-8) to the Purchasing Department.
 - Email: purchasing@providenceri.gov
 - Please use the subject line “**Solicitation Question**”
- Please direct questions relative to the Minority and Women’s Business Enterprise Program and the corresponding forms (Pages 9-13) to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
 - Email: gdiaz@providenceri.gov
 - Please use subject line “**MBE WBE Forms**”
- Please direct questions relative to the specifications outlined (beginning on page 14) to the issuing department’s subject matter expert:

| | |
|--|--|
| ○ Norman Ripstein, Principal Engineer | ○ Carolyn Diplan, Project Engineer |
| ○ (401) 521-6300, Ext. 7212 | ○ (401) 521-6300, Ext. 7219 |
| ○ normanr@provwater.com | ○ carolynd@provwater.com |

**BIDDERS MUST MEET THE QUALIFICATIONS AS DESCRIBED IN
SECTION 00200 - INSTRUCTIONS TO BIDDERS, ARTICLE 3**

Pre-bid Conference (NON-MANDATORY)

A virtual Pre-Bid Conference will be held at 9:30 a.m. on February 22, 2024 via the **Teams Meeting** online meeting platform. **Bidders are not required to attend and participate in the Pre-Bid Conference, however attendance is strongly recommended.**

Teams Meeting Access Instructions: Please join from your computer, tablet or smartphone.

<https://teams.microsoft.com/l/meetup-join/contract1-24>

Meeting ID: 253 603 855 106 Passcode: zPPtBu

Deadline for questions submissions:

Before 12:00 pm, Wednesday, February 28th, 2024



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

INSTRUCTIONS FOR SUBMISSION

Meeting Date: Monday, March 11th, 2024

Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in Conference Room 305, on the 3rd floor of City Hall.

- Bidders must submit **2 copies** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the solicitation and bid are related and must include the company name and address on the envelope as well.** (On page 1).
- If required by the Department, please keep the original bid bond and check in only one of the envelopes.
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have **"NOT A BID"** written on the envelope or wrapper.
- Only use form versions and templates included in this solicitation. If you have an old version of a form do not recycle it for use in this bid.
- The bid envelope and information relative to the bid must be addressed to:

**Board of Contract and Supply
Department of the City Clerk – City Hall, Room 311
25 Dorrance Street
Providence, RI 02903**

****PLEASE NOTE:** This bid may include details regarding information that you will need to provide (such as proof of licenses) to the issuing department before the formalization of an award.

*This information is **NOT** requested to be provided in your initial bid by design.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City's Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.

IMPORTANT NOTE TO BIDDERS

TO OBTAIN A COMPLETE BID PACKAGE, CONTACT:

Purchasing Dept. Room 408,
Providence City Hall
Phone: 401-680-5264
Email: Pjordan@providenceri.gov



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

BID PACKAGE CHECKLIST

Digital forms are available in the City of Providence Purchasing Department Office or online at

<http://www.providenceri.gov/purchasing/how-to-submit-a-bid/>

The bid package **MUST** include the following, in this order:

- Bid Form 1: Bidder's Blank as the cover page/ 1st page (*see page 6 of this document*)
- Bid Form 2: Certification of Bidder as 2nd page (*see page 7 of this document*)
- Bid Form 3: Certificate Regarding Public Records (*see page 8 of this document*)
- Bid Form 4: Affidavit of City Vendor (*see pages 9 and 10 of this document*)
- Forms from the Minority and Women Business Enterprise Program: Based on Bidder Category. *See forms and instructions enclosed (pages 11-112) or on:*
<https://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>

***Please note: MBE/WBE forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures will be considered incomplete.**

- Bidder's Proposal/Packet: Formal response to the specifications outlined in this RFP, including pricing information and details related to the good(s) or service(s) being provided. Please be mindful of formatting responses as requested to ensure clarity.
- Financial Assurance, *if requested* (as indicated on page 5 of this document under "Bid Terms")

All of the above listed documents are REQUIRED. (With the exception of financial assurances, which are only required if specified on page 5.)

*****Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.**



BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND

NOTICE TO VENDORS

1. The Board of Contract and Supply will make the award to the lowest qualified and responsible bidder.
2. In determining the lowest responsible bidder, cash discounts based on preferable payment terms will not be considered.
3. Where prices are the same, the Board of Contract and Supply reserves the right to award to one bidder, or to split the award.
4. No proposal will be accepted if the bid is made in collusion with any other bidder.
5. Bids may be submitted on an "equal in quality" basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
6. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
7. The Board of Contract and Supply reserves the right to reject any and all bids.
8. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City's [Open Meetings Portal](#).
9. As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes.
10. In case of error in the extension of prices quoted, the unit price will govern.
11. The contractor will **NOT** be permitted to: a) assign or underlet the contract, or b) assign either legally or equitably any monies or any claim thereto without the previous written consent of the City Purchasing Director.
12. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
13. A certificate of insurance will normally be required of a successful vendor.
14. For many contracts involving construction, alteration and/or repair work, State law provisions concerning payment of prevailing wage rates apply ([RIGL Sec. 37-13-1 et seq.](#))
15. No goods should be delivered, or work started without a Purchase Order.
16. **Submit 2 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
17. Bidder must certify that it does not unlawfully discriminate on the basis of race, color, national origin, gender, gender identity or expression, sexual orientation and/or religion in its business and hiring practices and that all of its employees are lawfully employed under all applicable federal, state and local laws, rules and regulations. (See Bid Form 2.)
18. **This project is also subject to the application of American Iron and Steel requirements to the FY 2022 and FY 2023 Drinking Water State Revolving Fund Assistance Agreements, as administered by the Environmental Protection Agency (EPA). Reference is made to Appendix E of the Contract Specifications for the USEPA Memorandum, dated April 7, 2017.**



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

BID TERMS

1. Financial assurances may be required in order to be a successful bidder for Commodity or Construction and Service contracts. If either of the first two checkboxes below is checked, the specified assurance must accompany a bid, or the bid will not be considered by the Board of Contract and Supply. The third checkbox indicates the lowest responsible bidder will be contacted and required to post a bond to be awarded the contract.
 - a) ☒ A certified check for **\$12,000.00** must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder.
 - OR**
 - b) ☒ A bid bond in the amount of **\$16,000.00**, must be deposited with the City Clerk as a guarantee that the contract will be signed and delivered by the bidder; and the amount of such bid bond shall be retained for the use of the City as liquidated damages in case of default.
 - c) ☐ No financial assurance is necessary for this item.
 - d) ☒ A performance and payment bond with a satisfactory surety company will be posted by the bidder in a sum equal to one hundred per centum (100%) of the awarded contract.
2. Awards will be made within **nighty (90) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.
3. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents, and Acts of God.

The following entry applies only for COMMODITY BID TERMS:

4. Payment for partial delivery will not be allowed except when provided for in blanket or term contracts.

The following entries apply only for CONSTRUCTION AND SERVICE BID TERMS:

5. Only one shipping charge will be applied in the event of partial deliveries for blanket or term contracts.
6. Prior to commencing performance under the contract, the successful bidder shall attest to compliance with the provisions of the Rhode Island Worker's Compensation Act, [RIGL 28-29-1, et seq.](#) If exempt from compliance, the successful bidder shall submit a sworn Affidavit by a corporate officer to that effect, which shall accompany the signed contract.
7. Prior to commencing performance under the contract, the successful bidder shall, submit a certificate of insurance, in a form and in an amount satisfactory to the City.



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

BID FORM 1: Bidders Blank

1. Bids must meet the attached specifications. Any exceptions or modifications must be noted and fully explained.
2. Bidder's responses must be in ink or typewritten, and all blanks on the bid form should be completed.
3. The price or prices proposed should be stated both in **WRITING** and in **FIGURES**, and any proposal not so stated may be rejected. **Contracts exceeding twelve months must specify annual costs for each year.**
4. Bids **SHOULD BE TOTALED** so that the final cost is clearly stated (unless submitting a unit price bid), however **each item should be priced individually**. Do not group items. Awards may be made on the basis of *total* bid or by *individual items*.
5. All bids **MUST BE SIGNED IN INK.**

Name of Bidder (Firm or Individual): _____

Contact Name: _____

Business Address: _____

Business Phone #: _____

Contact Email Address: _____

Agrees to bid on (Write the "Item Description" here): _____

CONTRACT 3-24, EDGEWOOD AREA, CRANSTON

SECTION 00410 (CLEAN & LINE) BID FORM

Part 1 – Unit Rates for Water Main High Service Expansion & Earthwork and Restoration within Public Space

Part 2 – Unit Rates for Traffic Control and Reconnect Services

Part 3 – Miscellaneous Unit Prices for Additional Work not specified in Parts 1 or 2

Part 4 – Labor and Equipment Rates for Additional Work not specified in Parts 1 or 2

If the bidder's company is based in a state other than Rhode Island, list name and contact information for a local agent for service of process that **is located within Rhode Island** _____

Delivery Date (if applicable): _____

Name of Surety Company (if applicable): _____

Total Amount in Writing*: _____

Total Amount in Figures*: _____

Use additional pages if necessary for additional bidding details.

- () Bidder Certification, Performance of Work
() Acknowledge receipt of all Addenda to the Specifications
() Conforms to Specifications
() Modifications to Specifications. If yes, please note
() Required MBE/WBE Forms submitted with Bid

Signature of Representation

Title



BOARD OF CONTRACT AND SUPPLY
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BID FORM 2: Certification of Bidder
(Non-Discrimination/Hiring)

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify that:

1. Bidder does not unlawfully discriminate on the basis of race, color, national origin, gender, sexual orientation and/or religion in its business and hiring practices.
2. All of Bidder's employees have been hired in compliance with all applicable federal, state and local laws, rules and regulations.

I affirm by signing below that I am duly authorized on behalf of Bidder, on
this _____ day of _____ 20_____.

Signature of Representation

Printed Name



**BOARD OF CONTRACT AND SUPPLY
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BID FORM 3: Certificate Regarding Public Records

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify an

understanding that:

1. All bids submitted in response to Requests for Proposals (RFP's) and Requests for Qualification (RFQ's), documents contained within, and the details outlined on those documents become public record upon receipt by the City Clerk's office and opening at the corresponding Board of Contract and Supply (BOCS) meeting.
2. The Purchasing Department and the issuing department for this RFP/RFQ have made a conscious effort to request that sensitive/personal information be submitted directly to the issuing department and only at request if verification of specific details is critical the evaluation of a vendor's bid.
3. The requested supplemental information may be crucial to evaluating bids. Failure to provide such details may result in disqualification, or an inability to appropriately evaluate bids.
4. If sensitive information that has not been requested is enclosed or if a bidder opts to enclose the defined supplemental information prior to the issuing department's request in the bidding packet submitted to the City Clerk, the City of Providence has no obligation to redact those details and bears no liability associated with the information becoming public record.
5. The City of Providence observes a public and transparent bidding process. Information required in the bidding packet may not be submitted directly to the issuing department at the discretion of the bidder in order to protect other information, such as pricing terms, from becoming public. Bidders who make such an attempt will be disqualified.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this _____ day of _____ 20____.

Signature of Representation

Printed Name



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

BID FORM 4: Affidavit of City Vendor

Per our Code of Ordinances [Sec. 21.-28.1 \(e\)](#), this form applies to a) the business, b) any political action committee whose name includes the name of the business, c) all persons holding ten (10) percent or greater equity interest or five thousand dollars (\$5,000.00) or greater cash value interest in the business at any time during the reporting period, d) all executive officers of the business entity, e) any spouse or dependent child of any individual identified in a) though d) above.

Executive officers who are not residents of the state of Rhode Island are exempted from this requirement.

Per [R.I.G.L. § 36-14-2](#), "Business" means a sole proprietorship, partnership, firm, corporation, holding company, joint stock company, receivership, trust, or any other entity recognized in law through which business for profit or not for profit is conducted.

Name of the person making this affidavit: _____

Position in the "Business" _____

Name of Entity _____

Address: _____

Phone number: _____

The number of persons or entities in your entity that are required to report under [Sec. 21.-28.1 \(e\)](#): _____

Read the following paragraph and answer one of the options:

Within the 12 month period preceding the date of this bid submission with the City of Providence, or with respect to the contracts that are not in writing within the 12 month period preceding the date of notification that the contract has reached the \$100,000 threshold, have you made campaign contributions within a calendar year to (please list all persons or entities required under [Sec. 21.-28.1 \(e\)](#)).

a. Members of the Providence City Council? ☐ Yes ☐ No

- If Yes, please complete the following:

Recipient(s) of the Contribution:

Contribution Date(s):

Contribution Amount(s):

b. Candidates for election or reelection to the Providence City Council? ☐ Yes ☐ No

- If Yes, please complete the following:

Recipient(s) of the Contribution:

Contribution Date(s):

Contribution Amount(s):



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

c. The Mayor of Providence? ☐ Yes ☐ No

- If Yes, please complete the following:

Recipient(s) of the Contribution:

Contribution Date(s):

Contribution Amount(s):

d. Candidates for election or reelection to the office of Mayor of Providence? ☐ Yes ☐ No

- If Yes, please complete the following:

Recipient(s) of the Contribution:

Contribution Date(s):

Contribution Amount(s):

Signed under the pains and penalties of perjury.

Position



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

MBE/WBE Participation Plan

Please complete separate forms for each MBE/WBE subcontractor/supplier to be utilized on the solicitation.

| | | | | | |
|--|--|-------------------------|--------------|-------------------------|-------------|
| Bidder's Name: | | | | | |
| Bidder's Address: | | | | | |
| Point of Contact: | | | | | |
| Telephone: | | | | | |
| Email: | | | | | |
| Procurement #: | | | | | |
| Project Name: | | | | | |
| Which one of the following describes your business' status in terms of Minority and/or Woman Owned Business Enterprise certification with the State of Rhode Island? (Check all that apply). | <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Neither MBE nor WBE | | | | |
| <p>This form is intended to capture commitments between the prime contractor/vendor and MBE/WBE subcontractors and suppliers, including a description of the work to be performed and the percentage of the work as submitted to the prime contractor/vendor. Please note that all MBE/WBE subcontractors/suppliers must be certified by the Office of Diversity, Equity and Opportunity at the time of bid. The MBE/WBE Directory can be found here. Please visit, the City's MBE/WBE page for details of the program (e.g. instructions and requirements).</p> <ul style="list-style-type: none"> Nonprofit organizations are not required to complete the rest of this form. Construction projects unable to identify subcontractors prior to bid submission (e.g. Design Build) are required to provide updates to the MBE/WBE Outreach Office | | | | | |
| Name of Subcontractor/Supplier: | | | | | |
| Type of RI Certification: | <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Neither | | | | |
| Address: | | | | | |
| Point of Contact: | | | | | |
| Telephone: | | | | | |
| Email: | | | | | |
| Detailed Description of Work to Be Performed by Subcontractor or Materials to be Supplied by Supplier Per the Scope of Work provided in the RFP | | | | | |
| Total Contract Value (\$): | | Subcontract Value (\$): | | Participation Rate (%): | |
| Anticipated Date of Performance: | | | | | |
| I certify under penalty of perjury that the forgoing statements are true and correct. | | | | | |
| Prime Contractor/Vendor Signature | | | Title | | Date |
| | | | | | |
| Subcontractor/Supplier Signature | | | Title | | Date |
| | | | | | |

***If you did not meet the 20% MBE/WBE combined participation goal, submit a Waiver Request Form.**



**BOARD OF CONTRACT AND SUPPLY
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MBE/WBE Waiver Request Form

Fill out this form only if you did not meet the 20% MBE/WBE participation goal.

State-certified MBE or WBE Prime Bidders are NOT REQUIRED to fill out this form.

Submit this form to the City of Providence MBE/WBE Outreach Director, Grace Diaz, at gdiaz@providenceri.gov, for review **prior to bid submission**. This waiver applies only to the current bid which you are submitting to the City of Providence and does not apply to other bids your company may submit in the future. **In case a waiver is needed, City Department Directors should not recommend a bidder for an award if this form is not included, absent or is not signed by the city of Providence MBE/WBE director.**

Prime Bidder: _____ Contact Email and Phone _____

Company Name, Address: _____ Trade _____

Project /Item Description (as seen on RFP): _____

To receive a waiver, you must list the certified MBE and/or WBE companies you contacted, the name of the primary individual with whom you interacted, and the reason the MBE/WBE company could not participate on this project.

| MBE/WBE Company Name | Individual's Name | Company Name | Why did you choose not to work with this company? |
|-----------------------------|--------------------------|---------------------|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

I acknowledge the City of Providence's goal of a combined MBE/WBE participation is 20% of the total bid value. I am requesting a waiver of _____ % MBE/WBE (20% minus the value of **Box F** on the Subcontractor Disclosure Form). If an opportunity is identified to subcontract any task associated with the fulfillment of this contract, a good faith effort will be made to select MBE/WBE certified businesses as partners.

Signature of Prime Contractor /
or Duly Authorized Representative

Printed Name

Date Signed

Signature of City of Providence
MBE/WBE Outreach Director /
or Duly Authorized Representative

Printed Name of City of Providence
MBE/WBE Outreach Director

Date Signed



**BOARD OF CONTRACT AND SUPPLY
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BID PACKAGE SPECIFICATIONS

Overview

Furnishing and installing approximately 6,000 Linear Feet (L.F.) of new 8- inch cast iron distribution water main, and 8,500 Linear Feet (L.F.) of new 16-inch cast iron transmission water main.

Scope of Work

Install of appurtenances (valves and hydrants), and associated full depth asphalt restoration of street excavations and permanent restoration of street sections (disturbed during construction operations), and grassy areas, within the Western Johnston and Scituate service area of Providence Water's distribution system

Proposed Schedule

Spring 2024 through December 31, 2025.

Evaluation Criteria

- 1. The lowest Total Bid Price Amount (resolved in favor of corrected sums) submitted for Part 1 of the Bid Schedule Summary;**
- 2. The bidder's Qualifications, as set forth in Article 3 of Section 00200, Instructions to Bidders, and as indicated in the bidder's Contractor Qualification Statement;**
- 3. The adequacy of the bidder's financial resources, including its ability to comply with the requirements of Article 5 of Section 00700, General Terms and Conditions;**
- 4. The quality of work performed previously by the bidder for the Owner, if any, and the quality of work performed on comparably sized projects for other entities;**
- 5. The record of the bidder in accomplishing work on other, similar projects in the required time frame;**
- 6. The bidder's ability to obtain the necessary materials, as set forth in Section 0300 - 2, List of Approved Materials/Manufacturers for use in the Providence Water Distribution System; and**
- 7. Consistency with historical unit pricing of Unit Rates and Unit Prices for bid items for the related contract work.**



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SUPPLEMENTAL INFORMATION

If the issuing department for this RFP determines that your firm's bid is best suited to accommodate their need, you will be asked to provide proof of the following prior to formalizing an award.

An inability to provide the outlined items at the request of the department may lead to the disqualification of your bid.

*This information is **NOT** requested to be provided in your initial bid that you will submit to the City Clerk's office by the "date to be opened" noted on page 1. This list only serves as a list of items that your firm should be ready to provide on request.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record.

You must be able to provide:

- Business Tax ID will be requested after an award is approved by the Board of Contract and Supply.
- Proof of Insurance.
- Certificate of Good Standing with the Rhode Island Secretary of State.
- **Bidders shall provide all required documentation and supplemental information as delineated in the following sections of the bid document.**

BIDDING & CONTRACT REQUIREMENTS

- **00100 – INVITATION TO BID**
- **00200 – INSTRUCTIONS TO BIDDERS**
- **00300 – INFORMATION AVAILABLE TO BIDDERS**
- **00410 – BID FORM (CLEANING & LINING)**
- **00430 – PROPOSED SUBCONTRACTOR AND SUPPLIER LISTING**
- **00450 – CONTRACTOR QUALIFICATION STATEMENT**
- **00470 – CITY OF PROVIDENCE MBE/WBE PARTICIPATION REQUIREMENTS**
- **00480 – EPA DISADVANTAGED ENTERPRISE (DBE) PROGRAM**
- **00490 – APPRENTICE UTILIZ., LOCAL HIRING REQS, & AIR QUAL. PROTOCOLS**
- **00520 – AGREEMENT FORM**
- **00700 – STD. GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT**
- **00800 – SUPPLEMENTARY CONDITIONS**



**BOARD OF CONTRACT AND SUPPLY
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CITY OF PROVIDENCE STANDARD TERMS & CONDITIONS

1. The terms “you” and “your” contained herein refer to the person or entity that is a party to the agreement with the City of Providence (“the City”) and to such person’s or entity’s employees, officers, and agents.
2. The Request For Proposals (“RFP”) and these Standard Terms and Conditions together constitute the entire agreement of the parties (“the Agreement”) with regard to any and all matters. By your submission of a bid proposal or response to the City’s RFP, you accept these Standard Terms & Conditions and agree that they supersede any conflicting provisions provided by bid or in any terms and conditions contained or linked within a bid and/or response. Changes in the terms and conditions of the Agreement, or the scope of work thereunder, may only be made by a writing signed by the parties.
3. You are an independent contractor and in no way does this Agreement render you an employee or agent of the City or entitle you to fringe benefits, workers’ compensation, pension obligations, retirement or any other employment benefits. The City shall not deduct federal or state income taxes, social security or Medicare withholdings, or any other taxes required to be deducted by an employer, and this is your responsibility to yourself and your employees and agents.
4. You shall not assign your rights and obligations under this Agreement without the prior written consent of the City. Any assignment without prior written consent of the City shall be voidable at the election of the City. The City retains the right to refuse any and all assignments in the City’s sole and absolute discretion.
5. Invoices submitted to the City shall be payable sixty (60) days from the time of receipt by the City. Invoices shall include support documentation necessary to evidence completion of the work being invoiced. The City may request any other reasonable documentation in support of an invoice. The time for payment shall not commence, and invoices shall not be processed for payment, until you provide reasonably sufficient support documentation. In no circumstances shall the City be obligated to pay or shall you be entitled to receive interest on any overdue invoice or payment. In no circumstances shall the City be obligated to pay any costs associated with your collection of an outstanding invoice.
6. For contracts involving construction, alteration, and/or repair work, the provisions of applicable state labor law concerning payment of prevailing wage rates (R.I. Gen. Laws §§ 37-13-1 et seq., as amended) and the City’s First Source Ordinance (Providence Code of Ordinances §§ 21-91 et seq., as amended) apply.
7. With regard to any issues, claims, or controversies that may arise under this Agreement, the City shall not be required to submit to dispute resolution or mandatory/binding arbitration. Nothing prevents the parties from mutually agreeing to settle any disputes using mediation or non-binding arbitration.
8. To the fullest extent permitted by law, you shall indemnify, defend, and hold harmless the City, its employees, officers, agents, and assigns from and against any and all claims, damages, losses, allegations, demands, actions, causes of action, suits, obligations, fines, penalties, judgments, liabilities, costs and expenses, including but not limited to attorneys’ fees, of any nature whatsoever arising out of, in connection with, or resulting from the performance of the work provided in the Agreement.
9. You shall maintain throughout the term of this Agreement the insurance coverage that is required by the RFP or, if none is required in the RFP, insurance coverage that is considered in your industry to be commercially reasonable, and you agree to name the City as an additional insured on your general liability policy and on any umbrella policy you carry.
10. The City shall not subject itself to any contractual limitations on liability. The City shall have the time permitted within the applicable statute of limitations, and no less, to bring or assert any and all causes of action, suits, claims or demands the City may have arising out of, in connection with, or resulting from the performance of the work provided in the Agreement, and in no event does the City agree to limit your liability to the price of the Agreement or any other monetary limit.
11. The City may terminate this Agreement upon five (5) days’ written notice to you if you fail to observe any of the terms and conditions of this Agreement, or if the City believes your ability to perform the



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

terms and conditions of this Agreement has been materially impaired in any way, including but in no way limited to loss of insurance coverage, lapsing of a surety bond, if required, declaration of bankruptcy, or appointment of a receiver. In the event of termination by the City, you shall be entitled to just and equitable compensation for any satisfactory work completed and expenses incurred up to the date of termination.

12. Written notice hereunder shall be deemed to have been duly served if delivered in person to the individual or member of the firm or entity or to an officer of the entity for whom it was intended, or if delivered at or sent by registered or certified mail to the last business address known by the party providing notice.
13. In no event shall the Agreement automatically renew or be extended without a writing signed by the parties.
14. You agree that products produced or resulting from the performance of the Agreement are the sole property of the City and may not be used by you without the express written permission of the City.
15. For any Agreement involving the sharing or exchange of data involving potentially confidential and/or personal information, you shall comply with any and all state and/or federal laws or regulations applicable to confidential and/or personal information you receive from the City, including but not limited to the Rhode Island Identity Theft Protection Act, R.I. Gen. Laws § 11-49.3-1, during the term of the Agreement. You shall implement and maintain appropriate physical, technical, and administrative security measures for the protection of, and to prevent access to, use, or disclosure of, confidential and/or personal information. In the event of a breach of such information, you shall notify the City of such breach immediately, but in no event later than twenty-four (24) hours after discovery of such breach.
16. The Agreement is governed by the laws of the State of Rhode Island. You expressly submit yourself to and agree that any and all actions arising out of, in connection with, or resulting from the performance of the Agreement or relationship between the parties shall occur solely in the venue and jurisdiction of the State of Rhode Island or the federal court located in Rhode Island.
17. The failure of the City to require performance of any provision shall not affect the City's right to

require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

18. If any term or provision of this Agreement, or the application thereof to any person or circumstance shall, in any extent, be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each term and provision shall be valid and enforceable to the fullest extent permitted by law.

ATTACHMENT 3



ADDENDUM 1

LIST OF APPROVED MATERIALS / MANUFACTURERS FOR USE IN THE PROVIDENCE WATER DISTRIBUTION SYSTEM (As of February 20, 2024)

DUCTILE IRON PIPE

American DI Pipe Co.
Atlantic States Cast Iron Pipe Co.
U.S. Pipe & Foundry Co.

Note: All Pipe Must Be Zinc Coated

DUCTILE IRON FITTINGS

Star Pipe Products – US made only
Tyler/Union Foundry Co. – US made only
U.S. Pipe & Foundry Co. – US made only

Note: All Pipe Must Be Zinc Coated

VALVES

American
AVK
Clow Valve Co.
Kennedy Valve
M&H Valve Co.
Mueller Co.
U.S. Pipe & Foundry Co.

BUTTERFLY VALVES (16" and larger)

Henry Pratt Co.
Mueller Co.

VALVE AND SERVICE BOXES

Bingham & Taylor
East Jordan Iron Works
General Foundries
Mueller Co.
Tyler Union / Biby – US made only

SERVICE ADAPTER COUPLINGS, PLASTIC

The Harrington Corp (HARCO)

PIPE COUPLINGS

ROMAC Industries, Inc.
Smith-Blair, Inc.
Total Piping Solutions, Inc. (Hymax)

FIRE HYDRANTS

Kennedy Guardian Hydrant - K81D,
by Kennedy Valve (Must be "Hydra-Shield -
Custodian" ready for installation in Providence only)

5-1/4" American-Darlin B-62-B-5
by American Flow Control (Must be "Hydra-Shield -
Custodian" ready for installation in Providence only)

MECHANICAL JOINT RESTRAINT FOR DUCTILE IRON PIPE AND FITTINGS

EBAA Iron Sales, Inc. MEGALUG MJ Retainer Gland
Series 1100 – MJ Gland
Series 1100SDB – Mid Span Restraint
Star National Products
"Star Tie-Anchor III Joint Restrainer"
Tyler Union
Series 1000 TUFGRIP MJ Retainer Gland
US made only

JOINT RESTRAINT FOR DUCTILE IRON PIPE- GASKETED

American – Fast-Grip Gasket
McWane Sure Stop 350 Gasket
U.S. Pipe & Foundry Co. - "Field Lok 350" Gasket

SERVICE BRASS

***Must meet "Lead Free Standard."**

A.Y. McDonald Manufacturing Co.
Cambridge Brass
Mueller Co.
Red Hed Manufacturing
The Ford Meter Box Co.

ATTACHMENT 4

CONTRACT 1-24, BID SCHEDULE

ADDENDUM NO.1

PART 1

UNIT RATES for Water Main High Service Expansion

| | | | |
|----|---|------------------|--------------------------|
| 1. | Furnish & Install 8-inch D.I. Water Main | <u>5,600 LF</u> | Price per LF (Figures) |
| | | Est. Qty. | |
| | Price per Linear Foot (Written) | | Total Amt. Bid (Figures) |
| 2. | Furnish & Install 16-inch D.I. Water Main | <u>8,900 LF</u> | Price per LF (Figures) |
| | | Est Qty. | |
| | Price per Linear Foot (Written) | | Total Amt. Bid (Figures) |
| 3. | Furnish & Install Ductile-Iron Pipe Fittings | <u>3,000 LBS</u> | Price per LBS (Figures) |
| | | Est. Qty. | |
| | Price per Pound (Written) | | Total Amt. Bid (Figures) |
| 4. | Furnish & Install 8-Inch Gate Valve | <u>14 EA</u> | Price per EA (Figures) |
| | | Est. Qty. | |
| | Price per Each (Written) | | Total Amt. Bid (Figures) |
| 5. | Furnish & Install 16-Inch Gate Valve | <u>9 EA</u> | Price per EA (Figures) |
| | | Est Qty. | |
| | Price per Each (Written) | | Total Amt. Bid (Figures) |
| 6. | Furnish & Install Fire Hydrant Assembly | <u>10 EA</u> | Price per EA (Figures) |
| | | Est. Qty. | |
| | Price per Each (Written) | | Total Amt. Bid (Figures) |

CONTRACT 1-24, BID SCHEDULE

ADDENDUM NO.1

PART 1

| | | | |
|----|--|-----------|--------------------------|
| 7. | Furnish & Install 2-Inch Blow-off Assembly | 1 EA | |
| | | Est. Qty. | Price per EA (Figures) |
| | | | |
| | Price per Each (Written) | | Total Amt. Bid (Figures) |
| 8. | Furnish & Install Air Release | 1 EA | |
| | | Est. Qty. | Price per EA (Figures) |
| | | | |
| | Price per Each (Written) | | Total Amt. Bid (Figures) |

PART 1**UNIT RATES for**
Earthwork and Restoration within Public Space**9. Earthwork****a. Gravel Borrow**600 TN

Est. Qty.

Price per TN (Figures)

Price per Ton (Written)

Total Amt. Bid (Figures)**b. Test Pits**50 CY

Est. Qty.

Price per CY (Figures)

Price per Cubic Yard (Written)

Total Amt. Bid (Figures)**c. Loam and Seed**20 CY

Est. Qty.

Price per CY (Figures)

Price per Cubic Yard (Written)

Total Amt. Bid (Figures)**10. Permanent Restoration****a. Furnish & Place Street Pavement- 4" Bituminous**19,000 SY

Est. Qty.

Price per SY (Figures)

Price per Square Yard (Written)

Total Amt. Bid (Figures)

PART 1

TOTAL BASE BID

a. Water Main Rehabilitation Work (Bid Item Nos. 1, 2, 3, 4, 5, 6,7 and 8)

| | |
|---------------------------|-------------------------|
| _____ | _____ |
| Total Bid Price (Written) | Total Bid Amt (Figures) |

b. Earth Work and Restoration (Bid Item Nos. 9a, 9b, 9c and 10a)

| | |
|---------------------------|-------------------------|
| _____ | _____ |
| Total Bid Price (Written) | Total Bid Amt (Figures) |

TOTAL BASE BID (PART 1): Overall Contract Area
(Sum of a and b above)

Total Bid Price Amount (Written)

Total Bid Price Amount (Figures)

CONTRACT 1-24, BID SCHEDULE

ADDENDUM NO.1

PART 2

UNIT RATES for
Traffic Control

11. Traffic Control

a. Police Details

Two Hundred Thousand and 00/100 Dollars

ALLOWANCE - Total Bid Price (Written)

\$200,000

Total Amt. Bid (Figures)

b. Flaggers

Two Hundred Thousand and 00/100 Dollars

ALLOWANCE - Total Bid Price (Written)

\$200,000

Total Amt. Bid (Figures)

12. Trench Rock Excavation & Removal

2,000 CY

\$300

Est. Qty.

Price per CY (Figures)

Two Thousand and 00/100 Dollars

Price per Cubic Yard (Written)

\$600,000

Total Amt. Bid (Figures)

PART 3

LABOR RATES

For ADDITIONAL WORK not specified in Part 1 and 2

13. Labor Rates per hour – includes insurance, fringes, and overhead.

(Submission of Certified Payrolls Required)

| | | | |
|-----------|----------------|----------|------------------------|
| a. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| b. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| c. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| d. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| e. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| f. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |
| g. | _____ | \$ _____ | Standard Rate per hour |
| | Classification | | |
| | | \$ _____ | Overtime Rate per hour |

Use additional sheets if necessary.

PART 3

EQUIPMENT RATES

For ADDITIONAL WORK not specified in Part 1 and 2

14. Equipment Rates

| | | | | | |
|----|------|------|------|----|------------------------|
| a. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| b. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| c. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| d. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| e. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| f. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| g. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| h. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| i. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |
| j. | | | | \$ | |
| | Type | Make | Year | | Standard Rate per hour |

Use additional sheets if necessary.

PART 3

MATERIALS & SUBCONTRACTOR COST MARUP
For ADDITIONAL WORK not specified in Part 1 and 2

15. Materials Cost Markup Percentage

- a. Contractor's Cost plus**
(Submission of Original Invoice Required)

Percentage (Written)

Percentage (Figures)

16. Subcontractor Cost Markup Percentage

- a. Contractor's Cost plus**
(Submission of Original Invoice Required)

Percentage (Written)

Percentage (Figures)

ATTACHMENT 5

SECTION 01150

MEASUREMENT & PAYMENT

SECTION 01150

MEASUREMENT & PAYMENT

ADDENDUM NO.1

General

1.1 EXTENT OF WORK

1.1.1 Measurement

1.1.1.1 The quantities to be measured under the various items in the Bidder's Blank will be those quantities of work completed in accordance with the Specifications. The methods of measurement will be as stated hereinafter for the individual items.

1.1.1.2 All quantities, except for lump sum items, shall be unit priced and measured for payment to the nearest one-tenth of a unit.

1.1.2 Prices

1.1.2.1 The unit rates in the Bidder's Blank shall be full compensation for the work of the Contractor specified and shall include the cost of furnishing all labor, materials, equipment, and all work and expense incidental to and necessary to complete the work in accordance with the Specifications.

1.2 WORK NOT PAID FOR SEPARATELY

1.2.1 Delivery

1.2.1.1 Payment for equipment delivery, storage or freight is included in the prices for the various items in the Bidder's Blank, and therefore no other separate payment will be made.

1.2.2 Bonds

1.2.2.1 Payment for bonds required by the contract is included in the prices bid for the various items of work in the Bidder's Blank, and therefore no separate payment will be made.

1.2.3 Permits and Licenses

1.2.3.1 Payment for permits and/or licenses required by the contract are included in the prices bid for the various items of work in the Bidder's Blank, and therefore no separate payment will be made.

1.2.3.2 Permits required by Municipalities.

SECTION 01150 MEASUREMENT & PAYMENT

ADDENDUM NO.1

1.2.4 Primary Road Work

- 1.2.4.1** Additional payment for work along primary, state, major/minor arterial roadways or roadways with concrete base required by the contract shall be considered to be included in the prices bid for the various items of work in the Bidder's Blank, and therefore no additional compensation will be made.

1.2.5 Night Work

- 1.2.5.1** There may be instances where night work may be required per project-specific conditions, permitting requirements, to accommodate the service needs of particular business or agency, and/or to reduce risk to travelers and workers, etc. Such work shall be considered to be included in the prices bid for the various items of work in the Bidder's Blank, and therefore no additional compensation will be made. The Contractor shall conform to the requirements of local permitting authority and at minimum the latest revision to the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

Measurement

2.1 METHOD OF MEASUREMENT

2.1.1 PIPELINE SYSTEMS – PUBLIC SPACE

- A.** Ductile-iron Pipe: Buried ductile-iron pipes utilized for water main install, including ductile-iron service laterals, of the various sizes listed in the Bid Schedule (**Item Nos. 1 and 2**), shall be measured for payment by the "Linear Foot" (L.F.), as measured along the centerline of the pipe, measured through all fittings and valves in the line, complete, in place and accepted by the OWNER.
- B.** Ductile-iron Fittings: Ductile-iron pipe fittings (e.g. pipe bends, tees, caps/plugs, etc.), including pipe couplings or solid sleeves for connections to existing water mains, as listed in the Bid Schedule (**Item No. 3**), shall be measured by the unit "pounds" (LBS.), for the number of pounds for the weight of fittings and couplings installed, complete, in-place and accepted by the OWNER. The measurement shall be based on the weight of the fitting or coupling, as provided by the standard fitting weights published in AWWA C153 and AWWA C219 for ductile iron compact fittings and couplings. There shall be no separate measurement for glands, joint restraints, or other appurtenances.
- C.** Gate Valves: Gate valves, of the various sizes listed in the Bid Schedule (**Item**

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ADDENDUM NO.1

Nos. 4 and 5), shall be measured by the unit “Each” (EA.), for each gate valve installed, complete, in-place and accepted by the OWNER.

- D. Fire Hydrant Assembly: New fire hydrant assemblies, as listed in the Bid Schedule (Item No. 6), shall be measured by the unit “Each” (EA.), for each fire hydrant assembly installed at the designated locations, complete, in-place, as shown in the detail, and accepted by the OWNER.
- E. Blow-off Assembly: New 2-inch blow-off assemblies, as listed in the Bid Schedule (Item No. 7), shall be measured by the unit “Each” (EA.), for each blow-off assembly installed at select locations at the ends of designated water mains, complete, in-place, as shown in the detail, and accepted by the OWNER.
- F. Air Release: New air release assemblies, as listed in the Bid Schedule (Item No. 8), shall be measured by the unit “Each” (EA.), for each air release assembly installed at select locations at the ends of designated water mains, complete, in-place, as shown in the detail, and accepted by the OWNER.

2.1.2 EARTHWORK

- A. Trench Excavation: The volume of trench excavation, as is required for the work specified under these Contract Specifications, shall not be measured separately for payment, but the costs thereof shall be considered to be included in the unit price bid for the applicable work items under "PIPELINE SYSTEMS," as described herein for the overall water main replacement work.
- B. Gravel Borrow (Refill): Where, through no fault of the Contractor, sufficient suitable materials from excavations are not available for backfill, or unsuitable materials exist below the normal trench lines, gravel borrow from off-site sources shall be used for backfilling or refilling excavations. Gravel Borrow, as listed in Part 1 of the Bid Schedule (Item No. 9 a), will be measured for payment by the unit “Tons” (TN), for gravel borrow in-place, compacted to the lines, grades and limits as directed by the OWNER.
- C. Test Pits: Where and when directed by the OWNER, the Contractor shall excavate test pits to establish locations of existing pipelines or other buried structures. Test Pits, as listed in Part 1 of the Bid Schedule (Item No. 9b), will be measured for payment by the unit “Cubic Yards” (CY), for the volume of material excavated within the lines and limits, as ordered by the OWNER.
- D. Rock Excavation: Including Disposal and Refill with Suitable Material when encountered, the volume of rock excavation, as listed in Part 2 of the Bid

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Schedule, as "Trench Rock Excavation & Removal" (**Item No. 12**), will be measured for payment in "Cubic Yards" (CY) in its original position, prior to excavation, computed based on the pre-approved trench width, length of rock excavation and average depth of rock excavation. Boulders or detached rock fragments which are less than 1 cubic yard shall not be measured for payment separately, but shall be classified as earth excavation.

- E.** Boulders or detached rock fragments, which are 1 cubic yard or more, shall be measured for payment individually and the volume will be computed from average dimensions taken in three representative directions. Boulders or detached rock fragments that are located within the excavation limits of the water main, service piping, or other appurtenances, or above the existing grade along the route of the water main or service piping, and are required to be removed to facilitate trenching, shall be measured as specified above. The Contractor shall clean rock formation for measurement and notify the OWNER that the boulders and/or excavated rock fragments are ready for measurement. If the Contractor fails to give such notice, then the OWNER will take measurement at the time he first observes the formation in question, and this quantity will be used for payment.
- F.** Loam and Seed: The work for this section shall be measured as specified at the square yard (SY) price listed in **Part 1** of the Bid Schedule (**Item No. 9c**), of Loaming and Seeding completed. This work shall include restoration of lawned areas with 6-inches of loam and seed, in-kind replacing of all disturbed plantings (including shrubbery and trees), disconnecting, reconnecting and/or repairing all disturbed lawn sprinkler systems, and in-kind replacement and/or repairing of all disturbed landscaping including but not limited to stone walls, decorative crushed stone, mulch, signs, and other landscaping objects disturbed during this project.

This work shall include all necessary maintenance of new plantings and newly seeded areas, including but not limited to watering, mowing, and fertilizing. There shall be a one (1) year warrantee on all new plantings and newly seeded areas, to start on the date of acceptance by the owner. In the case of newly seeded areas, the date of acceptance shall be the date the owner believes acceptable grass coverage, per the specifications, has been achieved.

2.1.3 TEMPORARY RESTORATION - BITUMINOUS PAVEMENT

The area of temporary restoration, as is required for the work specified under these Contract Specifications, shall not be measured separately for payment, but the costs thereof shall be considered to be included in the unit price bid for the applicable work items under "PIPELINE SYSTEMS," as described herein for the overall water main replacement work.

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2.1.4 PERMANENT RESTORATION – BITUMINOUS STREET PAVEMENT

2.1.7.1 TRENCH RESTORATION

- A. The extent of permanent bituminous concrete pavement, which is placed to restore all roadways that have existing gravel bases, as listed in Part 1 of the Bid Schedule (**Item No. 10a**), will be measured and computed in square yards to the nearest 1/10th of a "Square Yard" (SY). The width for measurement of the permanent bituminous (hot mix) pavement structure, of the specified courses and thicknesses, will be the specified width within the payment line limits, as described and shown on the trench details for the restored pavement surface, and the length will be the actual length of the trench pavement limits, as measured along the center line of the trench.

2.1.9 GRASS RESTORATION

Restoration of grassed areas in the public right of way or on private property, which are disturbed as a result of construction operations, will not be measured separately for payment, but the costs thereof will be considered included in the price bid for the applicable work items under “PIPELINE SYSTEMS – PUBLIC SPACE”. The limits of work for the grass restoration areas will be as specified, or as determined in the field and directed by the OWNER.

2.1.10 CLEARING AND GRUBBING

No separate payment will be made for clearing and grubbing. The costs thereof will be considered included in the price bid for the applicable work items, as described herein.

2.1.11 TRAFFIC CONTROL

- A. Uniformed Traffic Control Police: Special Duty Police for uniformed traffic control within the project's limits of construction, as required by the local Police Departments of the respective Cities and Towns, will be reimbursed to the Contractor per pay period as a pass-through without markup. The Contractor will call in the details and pay the invoices to the respective cities and towns that they have utilized for the period. For reimbursement purposes, the Contractor shall forward detail voucher (slip) copies to PWSB, with a copy of the invoice for verification.
- B. Flagpersons: The utilization of Flagpersons for traffic control employed within the project's limits of construction, as directed by the Engineer and/or the local Police

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Departments of the respective Cities and Towns, will be paid by the OWNER per pay application. If flagger services are subcontracted, the Contractor shall forward flagger invoices with certified payroll to PWSB for payment without markup. If the flagperson is employed by the General Contractor, flagger services shall be compensated for the employee's hourly wage without markup.

- C. Temporary Construction Signage and Traffic Control Devices: Measurement for the placement and relocation of temporary construction signs, traffic cones, drums, barricades, or other traffic control devices, will not be measured separately for payment, but the costs thereof will be considered to be included with applicable items of work, as listed in the Bid Schedule, to perform the overall contract work.

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Payment

3.1 BASIS OF PAYMENT

3.1.1 PIPELINE SYSTEMS - PUBLIC SPACE

- A. Ductile-Iron Pipe: Payment for quantity measured, as specified and listed in the Bid Schedule (**Item Nos. 1 and 2**), to furnish and install Ductile-Iron Pipe for the water main installation work, will be made at the unit prices bid per "Linear Foot" (L.F.), which price will include furnishing and installing all pipe, pipe jointing materials, joint restraint devices (e.g. field locking gaskets), and all other necessary accessory materials; for hauling and handling of all materials; for pipe cutting; for jointing and connection to other pipe; for all earthwork in connection with the construction of the new water main replacement, including saw-cutting, pavement removal, excavations, pipe bedding, backfilling and compaction, grading, and preparation of subgrades; for all dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all soils and pavement materials; disposal of surplus materials; pressure testing and disinfection; for all labor, equipment, plant, tools and materials; and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the ductile-iron water main installations in accordance with the specifications, and at the locations as directed by the OWNER.
- B. Ductile-Iron Pipe Fittings: Payment for quantity measured, as specified and listed in the Bid Schedule (**Item No. 3**), to furnish and install Ductile-Iron Pipe Fittings, including pipe couplings or solid sleeves, will be made at the unit prices bid per "Pound" (LB), which price will include furnishing and installing all pipe fittings (e.g. bends, crosses, tees, etc.), pipe jointing materials, and all other necessary accessory materials; for hauling and handling of all materials; for pipe jointing; for all other incidental earthwork associated with the installation of the new fittings for the water main replacement, including saw-cutting, pavement removal, excavations, pipe bedding, backfills and compaction, grading, and preparation of subgrades; for removal and disposal of the existing water mains and appurtenances; for all dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all soils and pavement materials; disposal of surplus materials; pressure testing and disinfection; for all labor, equipment, plant, tools and materials; and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the installation of the ductile-iron water main fittings and coupling connections in accordance with the specifications, and at the locations as directed by the OWNER.

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Mechanical Joint Restraint: No separate payment will be made for the installation of mechanical restrained joint gland mechanisms, which will be required for pipe joint restraint at all pipe bends, tees, and caps or plugs for dead-end water main locations, of the specified dimensions and sizes, but the cost thereof shall be deemed to be included in the unit price bid for the ductile-iron pipe fitting work described herein.

Concrete Thrust Blocks: No separate payment will be made for the installation of concrete thrust blocks, which will be required for pipe restraint at all pipe bends, tees, and caps or plugs for dead-end water main locations, of the specified dimensions and sizes, but the cost thereof shall be deemed to be included in the unit price bid for the ductile-iron pipe fitting work described herein.

- C. Gate Valves: Payment for quantity measured, as specified and listed in the Bid Schedule (Item Nos. 4 and 5), to furnish and install the specified buried service Gate Valves, will be made at the unit prices bid per “Each” (EA.), which price will include the gate valve, C.I. valve box, mechanical restrained jointing materials (main line piping and couplings to be paid under respective unit items herein), and all other necessary accessory materials; for hauling and handling of all materials; for pipe jointing; for all other incidental earthwork associated with the installation of the new gate valves for the water main replacement, including saw-cutting, pavement removal, excavations, pipe bedding, backfills and compaction, grading, and preparation of subgrades; for removal and disposal of the existing gate valves and appurtenances; for all dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all soils and pavement materials; disposal of surplus materials; pressure testing and disinfection; for all labor, equipment, plant, tools and materials, and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the items in accordance with the specifications, and at the locations as directed by the OWNER.
- D. Fire Hydrant Assemblies: Payment for quantity measured, as specified and listed in the Bid Schedule (Item No. 6), to furnish and install the specified Fire Hydrant Assembly, will be made at the unit prices bid per “Each” (EA.), which price will include the fire hydrant, 6-inch ductile-iron branch piping, 6-inch gate valve, valve box, hydrant anchor tee, mechanical restrained jointing materials (main line piping and couplings to be paid under respective unit items herein), and all other necessary accessory materials; for hauling and handling of all materials; for pipe jointing; for all other incidental earthwork associated with the installation of the new fire hydrant assemblies associated with the water main replacement work, including saw-cutting, pavement removal, excavations, pipe bedding, backfills and compaction, grading, and preparation of subgrades; for removal and disposal of the existing fire hydrants and appurtenances; for all

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dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all soils and pavement materials; disposal of surplus materials; pressure testing and disinfection; for all labor, equipment, plant, tools and materials, and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the items in accordance with the specifications, and at the locations as directed by the OWNER.

- E. Two-inch Blow-off Assemblies: Payment for quantity measured, as specified and listed in the Bid Schedule (**Item No. 7**), to furnish and install the specified 2-inch Blow-off Piping Assembly, will be made at the unit prices bid per “Each” (EA.), which price will include the service saddle, 2-inch brass piping and fittings, curb stop, 2-inch galvanized riser piping, cast-iron road boxes, and all other incidental materials; for hauling and handling of all materials; for tapping; pipe jointing; for all other incidental earthwork associated with the installation of the new blow-off assembly associated with the water main replacement work, including saw- cutting, pavement removal, excavations, bedding, backfills and compaction, grading, and preparation of subgrades; for removal and disposal of the existing blow-off or bleeder assemblies and appurtenances; for all dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all materials, disposal of surplus materials; for all labor, equipment, plant, tools and materials, and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the items in accordance with the specifications, and at the locations as directed by the OWNER.
- F. Air Release Assemblies: Payment for quantity measured, as specified and listed in the **Bid Schedule (Item No. 8)**, to furnish and install the specified Air Release, will be made at the unit prices bid per “Each” (EA.), which price will include corporation stop, two ninety (90) degree elbows, two brass nipples, a curb stop, two gate boxes, and a stand pipe and cap. The Contractor will be required to contact the OWNER for specific material, size, and assembly requirements. for all other incidental earthwork associated with the installation of the new air release assembly associated with the water main replacement work, including saw- cutting, pavement removal, excavations, bedding, backfills and compaction, grading, and preparation of subgrades; for removal and disposal of the existing blow-off or bleeder assemblies and appurtenances; for all dewatering, pumping, drainage and bailing of excavations; for the satisfactory removal and disposal of all materials, disposal of surplus materials; for all labor, equipment, plant, tools and materials, and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the items in accordance with the specifications, and at the locations as directed by the OWNER.
- G. Protection of Existing Pipelines and Utilities: The support and protection of

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ADDENDUM NO.1

existing gas, water, telephone, cable television, storm or sanitary sewer, and electric lines, crossing the trench, which may be required to prevent damage of the utilities during construction, will not be measured for separate payment, but the cost thereof will be considered to be included with the unit bid prices for the applicable work items under "PIPELINE SYSTEMS – PUBLIC SPACE", as described herein.

- H. Calcium Chloride: No separate payment will be made for furnishing and placing calcium chloride for dust control, but the costs thereof shall be considered to be included with the unit prices bid for the applicable items of work as listed under "PIPELINE SYSTEMS – PUBLIC SPACE", as described herein for which calcium chloride is required.
- I. Dewatering, Control & Diversion of Water: No separate payment shall be made for furnishing, installing, maintaining, operating and removing all equipment, facilities, construction and appurtenant work required to maintain in a dry condition the areas in which construction of this contract is to be conducted, but the costs thereof shall be considered to be included with the unit bid prices for the applicable work items under "PIPELINE SYSTEMS – PUBLIC SPACE", as described herein.
- J. Excavation Support Systems: No separate payment will be made for excavation support systems (trench boxes), but the cost thereof shall be deemed to be included in the unit prices bid for the applicable items of work under "PIPELINE SYSTEMS – PUBLIC SPACE", as described herein.

3.1.2 EARTH EXCAVATION

- A. Trench Excavation: No separate payment for earth excavation shall be made, including excavation for unsuitable material, but the costs thereof shall be considered to be included in the unit prices bid for the applicable work items under "PIPELINE SYSTEMS", as described herein.
- B. Gravel Borrow (Refill): Payment for approved gravel borrow from off-site sources, as specified, as listed in **Part 1** of the Bid Schedule (**Item No. 9a**), will be made at the unit bid price per Ton (TN). Payment will include all costs associated with furnishing, placing and compacting the Gravel Borrow (Refill) excavation, and disposal of all unsuitable materials off-site.
- C. Test Pits: Payment for the quantity measured, as specified and directed, to excavate Test Pits, as listed in **Part 1** of the Bid Schedule (**Item No. 9b**), will be made at the unit price bid per Cubic Yard (CY). Payment will constitute full compensation for all sawcutting, excavation, backfilling and compaction associated with the test pit operations. Where required, additional material to refill test pit excavations will be

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paid at the unit price bid for “Gravel Borrow”, as described above.

- D. Rock Excavation: Payment for the quantity measured, as specified or directed herein, for “Trench Rock Excavation & Removal”, as listed in **Part 2** of the Bid Schedule (**Item No. 12**), will be made at the pre-set unit price (per Cubic Yard). Payment will include costs for excavation, removal and disposal of excavated rock or boulders, and refill with suitable materials, either from the excavations or with gravel borrow from off-site sources.
- E. Loam And Seed: Payment for the quantity measured, as specified or directed herein, for “Loam and Seed”, as listed in **Part 1** of the Bid Schedule (**Item No. 9c**), will be made at the pre-set unit price (SY).

3.1.3 TEMPORARY RESTORATION – BITUMINOUS PAVEMENT

No separate payment for temporary restoration – bituminous pavement- shall be made, including furnish and place temporary bituminous pavement in roadways and in sidewalk or driveway areas, but the costs thereof shall be considered to be included in the unit prices bid for the applicable work items under "PIPELINE SYSTEMS", as described herein.

3.1.4 PERMANENT RESTORATION – BITUMINOUS STREET PAVEMENT

3.1.4.1 TRENCH RESTORATION

- A. Payment for the quantity measured, as specified or directed, to furnish and place permanent bituminous pavement in roadways with existing gravel bases, as listed in **Part 1** of the Bid Schedule (**Item Nos. 10a**), will be made at the unit price bid (per Square Yard), which prices shall also include the preparation and sawcutting of pavement edges; preparation of gravel subgrade; compaction; tack coat; and cleaning and sweeping.

3.1.5 GRASS RESTORATION

With the exception of restoration associated with a private side lead service replacement, no separate payment will be made for the restoration of grass lawns or grassed areas, which are disturbed as a result of construction operations. At no additional cost, the contractor shall repair all disturbed grassed areas along the street Right-of-Way, or within private property. The costs thereof will be considered included in the price bid for the applicable work items under “PIPELINE SYSTEMS – PUBLIC SPACE”, as described herein.

3.1.6 CLEARING AND GRUBBING

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- A.** Clearing shall consist of removal and disposal at ground level of tree limbs, brush, shrubs, grass, weeds, other vegetation, down timber, rotten wood, rubbish, fences, incidental structures, bituminous and concrete paving, and general debris within the limits of construction.
- B.** Grubbing shall consist of removal of stumps, roots, stubs, brush, foundations, and other buried items and debris which interfere with this work.
- C.** No separate payment will be made for clearing and grubbing. The costs thereof will be considered included in the price bid for the applicable work items under “PIPELINE SYSTEMS - PRIVATE SIDE SERVICES” and “PIPELINE SYSTEMS – PUBLIC SPACE”, as described herein.

3.1.7 TRAFFIC CONTROL

- A.** Police details shall be paid by the Contractor and reimbursed by PW per pay period without markup. For reimbursement purposes, the Contractors shall submit invoices copies from the respective cities and towns with copies of daily detail vouchers for verification.
- B.** Compensation for the Flagperson's services shall be paid by PW per pay period without markup. If flagger services are subcontracted, the General Contractors shall submit flagger invoices with certified payroll for payment. If the flagperson is employed by the General Contractor, flagger services shall be compensated for the employee's hourly wage (on certified payroll) per pay period without markup. The hourly rate of wages paid by the Contractor or Sub-Contractor shall not be less than the prevailing rate set by the Rhode Island Department of Labor.
- C.** Temporary Construction Signage and Traffic Control Devices: No separate payment shall be made for the placement and relocation of temporary construction signs, traffic cones, drums, barricades, or other traffic control devices, but the costs thereof will be considered to be included with applicable items of work, as listed in the Bid Schedule to perform the overall contract work.

4.1 UNIT PRICES

- 4.1.1** The Bidder shall provide unit prices for the hourly rates associated with Labor; Equipment; and Material and Subcontractor Cost Markup Percentages, in the spaces provided in Part 3 of the Bid Schedule. Unit prices and cost markup percentages, as submitted with the Bid Schedule, shall be used for partial payments for any changes and/or additions to the original scope of work. Cost Markup Percentages are not applicable to police, flaggers, and subcontracted flaggers

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MEASUREMENT & PAYMENT

ADDENDUM NO.1

utilized for in scope contract work. Reference is made to the general Item Nos. 11, 12, 13, and 14 in Part 3 of the Bid Schedule for the respective bid items.

- 4.1.2** Original invoices for Materials and Subcontractor cost shall be submitted to Providence Water with the respective application for payment.

END OF SECTION

ATTACHMENT 6

SECTION 08000

**PAVING, SURFACING, AND PERMANENT
REPAIRS TO STREETS AND SIDEWALKS**

SECTION 08000
PAVING, SURFACING, AND PERMANENT REPAIRS
TO STREETS, DRIVEWAYS, AND SIDEWALKS

General Provisions

1.1 DEFINITION OF TERMS

- 1.1.1** Paving and surfacing refers to all temporary and permanent placements of bituminous concrete, Portland Cement concrete, stone, and/or brick materials, on streets, roads, highways, private rights of way, curbs, driveways, and sidewalks, associated with removal and/or installation of water mains and/or appurtenances.
- 1.1.2** Permanent repairs to streets, roads, highways, private rights of way, curbs, driveways, and sidewalks, refers to the restoration of paving and surfacing in a manner satisfactory to the Owner and to the satisfaction of the proper state and/or municipal officials having jurisdiction of the area in question. The final surfaces of the repaired area shall match the existing surface elevations precisely and shall provide proper drainage. Restoration to proper line and grade, as directed by the OWNER and/or in accordance with local and/or state ordinances, shall utilize the methods of Mill and Overlay or by Infra-Red Bituminous Surface Repairs as required.
- 1.1.3** Temporary hot mix asphalt shall be defined as hot mix asphalt placed to maintain the pavement until permanent patches are placed. All excavations within sidewalks, private and commercial driveways, and at select street locations as directed by the OWNER, will not be permanently restored with full depth hot mix asphalt within the same working day. Also, the contractor shall place a minimum two (2) inch temporary hot mix asphalt pavement patch each day after completion of work in a roadway segment. The two (2) inch temporary hot mix asphalt pavement shall be removed after a 60-day settlement period and permanent asphalt shall be placed to match the existing pavement structure in kind (no less than 4" for non-state roads and 6" for state roads). Temporary pavement shall be the same plant asphalt mix as specified for the permanent surface course under the Materials Section (Article 4.3) of this section of the Contract Specifications.
- 1.1.4** Full depth hot mix asphalt shall be defined as hot mix asphalt placed immediately following trench compaction to maintain the pavement until either a 2" micro-mill and overlay or infrared pavement restoration can be accomplished. All paved areas disturbed in these contracts shall be permanently restored with full depth hot mix asphalt within the same working day. Full depth hot mix asphalt patches shall match the existing pavement thickness in kind (no less than 4" for non-state roads and 6" for state roads). Full depth hot mix asphalt shall be the same plant asphalt mix as specified for the permanent surface course under the Materials Section (Article 4.3) of this section of the Contract Specifications.

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1.2 REFERENCES:

- | | |
|---|--|
| a. AASHTO M20 | Asphalt Cement |
| b. AASHTO M17 | Filler Material |
| c. ASTM D-1073 | Aggregates |
| d. AASHTO M85 | Portland Cement |
| e. RIDOT, Standard Specifications for Road and Bridge Construction | Bituminous Pavement - Part 400 Concrete Pavement - Part 500 |

Submittals

2.1 SUBMITTALS

- 2.1.1** The Contractor shall provide submittals in accordance with Section 13 of the General Requirements.
- 2.1.2** The Contractor shall submit for OWNER's approval a list of materials including, but not limited to, temporary and permanent paving and surfacing materials.
- 2.1.3** The Contractor shall submit to OWNER a list of equipment to be used in temporary and permanent paving and surfacing.
- 2.1.4** A Subcontractor must be approved by the OWNER before any subcontract work is performed. The Contractor is responsible for any and all work performed by their Subcontractors.

Quality Assurance

3.1 QUALITY ASSURANCE

- 3.1.1** Reference Section 8, "Quality Assurance" of "Section 01000 - General Requirements".
- 3.1.2** The Contractor shall comply with the requirements of any agency or codes having jurisdiction over the work.

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General Provisions

4.1 ROADWAY AND SIDEWALK OPENING

- 4.1.1** In all instances of roadway and side walk opening for the purpose of performing water work, Contract shall saw-cut the pavement in straight parallel lines and rectangular in shape with an abrasive wheel power saw, unless otherwise specified. Under no circumstances shall the pavement cut be made using a hammer or drop weight. All pavement cuts shall be full depth through the pavement; and, backfill in maximum one (1) foot lifts and place at minimum twelve (12) inches of gravel subbase, compacted to RIDOT Standard Specifications.
- 4.1.2** Restoration of any altered roadway shall commence immediately after the completion of the alteration, and shall include, if necessary, temporary or intermediate restoration on an ongoing basis to allow traffic to pass over a smooth surfaced roadway until the permanent restoration can be completed.

Materials

5.1 GENERAL

- 5.1.1** All materials used must conform to the requirements as contained in this section.
- 5.1.2** All equipment, materials and articles incorporated in the work are to be new and of the best grade of their respective kinds for the purpose. Wherever in the Contract Documents a particular brand, make of material, device or equipment is shown or specified, such brand, make of material, device or equipment is to be regarded merely as a standard.
- 5.1.3** Any other brand, make of material, device or equipment which, in the opinion of the OWNER is the recognized equal of that specified, considering quality, workmanship and economy of operation, and is suitable for the purpose intended, will be accepted. For all items in the specifications which are described or defined, it is understood that such information indicates the character of the required items and interpretations with respect to nonessential details will be made so as to provide competition among manufacturers of substantially equivalent items. The workmanship, shall in every respect be in accordance with what, in the opinion of the OWNER, is the best modern practice. No materials or supplies for the work shall be purchased by the Contractor

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or any subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. The Contractor warrants that he has good title to all materials and supplies used by them in the work. The OWNER reserves the right at all times to reject or approve materials to be used in the performance of this contract.

- 5.1.4** Certificates of compliance must be furnished upon request.

5.2 BITUMINOUS CONCRETE PLANT MIX (BASE COURSE)

- 5.2.1** Bituminous Concrete Base Course Pavement mixtures shall be composed of a bituminous binder and of crushed stone or crushed gravel.

- 5.2.2** Bituminous material - the asphalt cement shall conform to the requirements of AASHTO M 20.

- 5.2.3** Crushed stone or crushed gravel - the course aggregate (retained on a no. 8 sieve) shall be crushed stone, or crushed or natural gravel, and shall conform to the gradation and quality requirements of the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.

- 5.2.4** Composition of Bituminous Concrete Base Course Pavement - The plant mix base course material aggregate, mineral filler, and asphalt cement shall be well graded between the limits specified and shall conform to the composition limits by weight as delineated in the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.

- 5.2.5** Class(es) of hot mix asphalt for permanent pavement shall be in accordance with the RIDOT Hot Mix Asphalt Matrix. New asphalt pavement in streets and sidewalks shall at minimum consist of Class 9.5 bituminous concrete pavement as specified herein.

5.3 BITUMINOUS CONCRETE PLANT MIX (BINDER COURSE AND SURFACE COURSE)

- 5.3.1** Bituminous Concrete Binder Course and Surface Course Pavement mixtures shall be composed of a bituminous binder and of crushed stone or crushed gravel.

- 5.3.2** Bituminous material - the asphalt cement material shall conform to the requirements of AASHTO M20.

- 5.3.3** Coarse aggregate - shall be that portion of the aggregate retained on a #8 sieve and

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shall consist of either crushed ledge rock or crushed gravel.

- 5.3.4** Fine aggregate - shall consist of natural sand, stone screening, or a combination thereof, and shall conform to the quality requirements of ASTM D-1073.
- 5.3.5** Filler material - shall conform to the requirement of AASHTO 17.
- 5.3.6** Composition of Bituminous Concrete Binder Course and Surface Course Pavement - The plant mix binder course and surface course material aggregate, mineral filler, and asphalt cement shall be combined to meet the composition limits by weight as delineated in the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.
- 5.3.7** Composition of Bituminous Concrete Friction Course Pavement - The plant mix binder course and surface course material aggregate, mineral filler, and asphalt cement shall be combined to meet composition limits by weight as delineated in the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.
- 5.3.8** Class(es) of hot mix asphalt for permanent pavement shall be in accordance with the RIDOT Hot Mix Asphalt Matrix. New asphalt pavement in streets and sidewalks shall at minimum consist of Class 9.5 bituminous concrete pavement as specified herein.
- 5.3.9** All materials are subject to the OWNER's approval.

5.4 GRAVEL BORROW SUBBASE

- 5.4.1** Gravel borrow subbase shall conform to the gradation requirements of the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.
- 5.4.2** All materials are subject to the OWNER's approval.

5.5 BONDING

- 5.5.1** Prior to placement of asphalt, all excavations (not included within the scope of mill and overlay) shall be re-sawcut, full depth through the pavement, at minimum one (1) foot from all vertical edges of the initial utility work trench(es) to expose a fresh, full thickness, vertical face prior to installing permanent pavement. An asphalt emulsion tack coat shall be brush-painted or pressure sprayed on all pavement edges, prior to placing the new bituminous mixture, to ensure proper bonding of new and old pavements.

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5.6 PORTLAND CEMENT CONCRETE

- 5.6.1** The Contractor shall furnish and install all Portland Cement concrete for road pavements, road bases, sidewalks, thrust blocks, and miscellaneous uses.
- 5.6.2** Cement - shall be domestic Portland Cement conforming to both the chemical and physical requirements of AASHTO M85.
- 5.6.3** Fine aggregate - shall conform to the requirements of AASHTO M6 and consist of natural sand, manufactured sand produced from larger aggregate, or a combination thereof.
- 5.6.4** Coarse aggregate - shall consist of screened gravel, crushed gravel, or crushed quarry rock conforming to the requirements of AASHTO M80.
- 5.6.5** The Portland Cement Concrete - shall be Class "XX" for road bases and Driveways; Class "A" for sidewalks; Class "B" for thrust blocks and miscellaneous uses, and all classes must develop a minimum ultimate compressive strength of 3000 psi at 28-days. The maximum size of the coarse aggregate shall be 3/4". The percentage of air entrained in the mix shall be six percent (6%) +/- 1%. Slump shall be in the range of 1-3 inches at the site. All materials contained in the mix shall conform to all applicable requirements of the latest revision to the State of Rhode Island, Department of Transportation, Standard Specifications for Road and Bridge Construction, and all subsequent Addenda.

5.7 OTHER MATERIALS

- 5.7.1** The Contractor shall provide all other materials not specifically described but required for complete and proper pavement placement and/or restoration.
- 5.7.2** All materials are subject to the OWNER's approval.

Execution

6.1 TEMPORARY PAVEMENT

- 6.1.1** Unless otherwise directed, the Contractor shall provide all labor, material, equipment and excavation required for pavement restoration. The temporary pavement shall be compacted flush with the existing adjacent pavement, and conform to the existing cross-section of the roadway, sidewalk, or driveway, or as directed.

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- 6.1.2** Depending on location, all backfilled trench excavations and service patches shall receive either 2" temporary hotmix asphalt or "full depth asphalt" pavement on a daily basis, and no backfilled trench excavations shall remain unpaved over a weekend period.
- 6.1.3** The two (2) inch temporary hot mix asphalt pavement in sidewalks, private and commercial driveways, and at select street locations (directed by the OWNER) shall remain in-place and be maintained by the Contractor for a period of not less than sixty (60) days from the date of placement. Maintenance and warranty requirements, reference Articles 7.6 and 7.7 in "Section 01000 - General Requirements".
- 6.1.4** Placement of the temporary paving shall be in accordance with the Local, City, Town and/or State regulations and ordinances. In sidewalks, private and commercial driveways, and at select street locations (directed by the OWNER), the removal of the temporary pavement and the subsequent placement of the permanent pavement shall not be performed until after the above specified period, or at a time as directed by the Owner.
- 6.1.5** With the exception of sidewalks, private and commercial driveways, and at select street locations (directed by the OWNER), the typical 2" temporary hotmix restoration will not be required. All paved areas disturbed in these contracts shall require full depth hotmix asphalt restoration. After a 60-day settlement period, trench excavations in the roadway shall be permanently restored via 2" micro-mill and overlay by the Contractor. Limits of final restoration shall conform to all applicable requirements of the latest revision to the State of Rhode Island, Department of Transportation, Minimum Standards for State and Municipal Road Repair for Utility Work (as established by Rhode Island General Laws 1956 § 39-2.2-4).
- 6.1.6** Reference requirements in Article 7.5, "Permanent Street Pavement Restoration" of "Section 01000 - General Requirements". On sections of roadway where full depth hotmix asphalt restoration is required, the Contractor at his discretion (and at no additional expense to the OWNER) may install a two (2") inch temporary hotmix pavement to account for settlement, and then remove it to apply full depth pavement after a settlement period.
- 6.1.7** Contractor shall maintain all 2" temporary hotmix and "full depth asphalt" patches in accordance with these specifications. The Contractor shall promptly repair trench failures upon notification by the OWNER. Failure to comply may result in permit revocation by the permitting DPW.

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6.2 PERMANENT PAVEMENT IN STREETS, SIDEWALKS, AND DRIVEWAYS

- 6.2.1** The Contractor shall provide all labor, material, equipment and excavation required to install permanent pavement as specified in this section of the Contract Specifications, or as directed by the OWNER. To match existing pavement thickness, all asphalt pavement shall be placed and compacted (at minimum) in two separate equal layers (lifts).
- 6.2.2** Unless otherwise directed, the Contractor shall perform typical permanent pavement restoration in sidewalks, private and commercial driveways, and at select street locations (directed by the OWNER), or as specified herein, for such restorations that will require the removal of the conventional 2-inch temporary pavement.
- 6.2.3** For asphalt street restoration, or as directed by the OWNER, the Contractor shall install sufficient pavement to match the existing pavement thickness as described in Section 7.5, "Permanent Street Pavement Restoration" of "Section 01000 - General Requirements." The conventional saw cutting of existing pavement edges along trenches will not be required at locations where the Contractor is placing "full depth asphalt" pavement to be followed by mill and overlay or infrared restoration.
- 6.2.4** In sidewalks, private and commercial driveways, and at select street locations (directed by the OWNER), upon removal of the temporary pavement, the existing pavement shall be re-sawcut to straight lines beyond any damaged pavement on both sides of the trench to a distance 12" beyond the existing edge of the damaged area, or as directed in the field by OWNER.
- 6.2.5** Limits of permanent restoration shall be delineated by the requirements of the latest revision to the State of Rhode Island, Department of Transportation, Minimum Standards for State and Municipal Road Repair for Utility Work (as established by Rhode Island General Laws 1956 § 39-2.2-4). Where traffic loops are encountered, these limits will extend to include the complete repair and restoration of these traffic control devices.
- 6.2.6** Placement of permanent paving shall be in accordance with the Local, City, Town and/or State regulations and ordinances.
- 6.2.7** Prior to the placement of the final surface course, all vertical and horizontal pavement surfaces of the adjacent pavement shall be thoroughly coated with an asphalt emulsion tack coat to ensure proper bonding of new and old pavements.

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- 6.2.8** The paving mixture shall be compacted by means of a power roller of sufficient size, or as directed by the OWNER, to give proper compaction. In places inaccessible to the roller, compaction must be accomplished by means of a mechanical compactor.
- 6.2.9** Within the limits of paving and areas disturbed during construction operations, the Contractor shall (at no additional cost) repair traffic loops, restore pavement markings, reset all manholes, grates, drainage structures, valve boxes, curb stop service boxes, and other utility road boxes to the existing or modified grades in accordance with the procedures of the appropriate utility.
- 6.2.10** Prior to winter shutdown, all sawcuts that have not been excavated or patched shall be crack sealed.

6.3 LOAM AND SEED

- 6.3.1** The Contractor shall perform all excavation to prepare the designated areas to receive a 4-inch deep loam bed. All loamed areas shall be trimmed and graded to true lines and existing grades. All loamed and seeded areas shall be fine raked and subsequently rolled and tamped.
- 6.3.2** All loamed areas shall be free of large stones, brush, roots, stumps, litter, or other foreign material. All seed beds shall be cultivated before seeding and seeding shall not be permitted on any area unless the surface presents a loose friable seed bed.
- 6.3.3** Fertilizer shall be commercial grade 10-6-4. Application shall be at a rate of 0.20 lb. per sq. yd. Lime shall consist of a standard commercial product of ground dolomitic limestone intended for agricultural use. Limestone shall be spread evenly and incorporated thoroughly into soil. Application shall be at a rate of 0.5 lb. per sq. yd. Grass seed shall be equal in mixture to Improved U.R.I. No. 2. Application shall be at a rate of 0.05 lbs. per sq. yd.
- 6.3.4** Landscape work shall only be performed during acceptable growing seasons, as defined for USDA hardiness zone 6b. The Contractor shall be responsible for the watering of the newly seeded areas to promote satisfactory initial grass growth within the restored grassed areas. Depending on weather conditions multiple waterings may be required as part of the overall grass restoration work.

Repair/Restoration

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7.1 GENERAL

7.1.1 The Contractor shall abide by all Local, City, Town and/or State regulations and ordinances associated with repair and restoration of pavement, curbing, driveway, and sidewalk materials which were lost, damaged, or destroyed as a result of his operations

7.1.2 Repair of street, driveway and sidewalk openings shall be at least 12 inches larger than the trench excavation on all sides. Each excavation shall be a minimum of four feet in its least dimension. If the street, driveway, or sidewalk opening is within two feet of the curb, then the restored top courses of the permanent patch shall be replaced to the curb.

7.1.3 Final street pavement restoration shall include two (2) inches of micro-milling and resurfacing all impacted travel lanes and/or shoulders for their full width using Class 9.5 or 12.5 hot mix asphalt (as directed by OWNER). Impacted travel lanes and/or shoulders are the roadway pavement areas that the utility work trench(es) are located within. In addition to the roadway pavement areas impacted by the utility work trenches, this final pavement restoration shall also apply to all travel lanes and/or shoulders impacted by either lateral or longitudinal utility work trenches when the trenches are less than or equal to one hundred (100) feet longitudinal from one another, including the sections between trenches, so that no section(s) of roadway pavement less than or equal to one hundred (100) feet shall remain unpaved. This will provide a continuous final pavement between the utility work trenches.

7.1.4 Where required or as directed by the OWNER, bituminous patches of streets shall be repaired by the Infra-red method as specified in Section 8100 "Infrared Bituminous Pavement Restoration."

7.1.5 Any openings which have settled more than two (2) inches shall not be permanently restored until notification has been made to the OWNER and the Contractor has received authorization from the OWNER to restore such hole. The OWNER reserves the right to require re-excavation and compaction of such holes.

7.1.6 All edges of existing paving or surfacing shall be re-sawcut with an abrasive wheel power saw to a neat, straight, and parallel alignment rectangular in shape, within the limits specified herein, prior to the placement of permanent restoration at no additional cost to the Owner. Under no circumstances shall the pavement cut be made using a hammer or drop weight. All pavement cuts shall be full depth through the pavement.

7.1.7 An excavation patch with less than 2 inches of settlement shall be removed to depth

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of at least eight (8) inches below base course. Compaction of the clean gravel borrow material must be accomplished by means of a mechanical compactor.

7.1.8 The OWNER and/or the respective DPW Representative, or his designee, may inspect all openings prior to and during the placing of all materials used in the restoration process.

7.2 PERMANENT RESTORATION OF BITUMINOUS CONCRETE STREETS

7.2.1 For non-state-owned roads, at a minimum, the restored pavement thickness shall match the existing depth of the roadway, or equal four (4) inches, whichever is greater. When the existing street pavement thickness is equal to or less than four (4) inches, the permanent pavement structure shall be as specified below under Article 6.2.2. Where the existing pavement thickness exceeds four (4) inches, and the existing base is crushed stone and stone dust or plant mix, four (4) inches of a bituminous concrete plant mix base course will be placed in two (2) equal layers (2" maximum depth) and compacted with mechanical equipment. All thicknesses shall be after compaction.

7.2.2 A sufficient amount of bituminous concrete binder course (minimum 2") will be placed to a point two (2) inches below the existing surface. A two (2) inch bituminous concrete surface (wearing) course will be placed to complete the restoration for a final pavement thickness of four (4) inches. All thicknesses shall be after compaction.

7.2.3 Prior to the placement of the final permanent pavement, all edges of the adjacent pavement shall be thoroughly coated with a bituminous tack coat to ensure proper bonding of new and old pavements.

7.2.4 The paving mixture shall be compacted by means of a roller of sufficient size, or as directed by the OWNER, to give proper compaction. In places inaccessible to the roller, compaction must be accomplished by means of a mechanical compactor. All thicknesses shall be after compaction.

7.3 PERMANENT RESTORATION OF PORTLAND CEMENT CONCRETE BASE STREETS

7.3.1 In accordance with the RIDOT Standard Specifications for concrete base streets, Portland Cement concrete shall be used as a replacement and placed to the exact depth

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as found or six (6) inches (whichever is larger). The Concrete shall set for a 72 hour period. During this time a construction steel plate shall be placed over the construction area. Drilling and doweling shall be required.

7.3.2 A hot mix bituminous concrete binder course matching the existing pavement thickness will be placed in two lifts up to the existing surface.

7.3.3 All edges of existing paving or surfacing shall be re-sawcut with an abrasive wheel power saw to a neat, straight, and parallel alignment rectangular in shape, within the limits specified herein, prior to the placement of permanent restoration at no additional cost to the Owner. Under no circumstances shall the pavement cut be made using a hammer or drop weight. All pavement cuts shall be full depth through the pavement.

7.3.4 The paving mixture shall be compacted by means of a roller of sufficient size, or as directed by the OWNER, to give proper compaction. In places inaccessible to the roller, compaction must be accomplished by means of a mechanical compactor. All thicknesses shall be after compaction.

7.3.5 Contractors are responsible for the concrete base restoration on all concrete based roads disturbed during construction. Should the Contractor choose to place 2" temporary hotmix asphalt rather than plate before pouring concrete, he shall do so at his convenience and shall not be compensated.

7.3.6 With regard to water main relay projects, the same 2" temporary hotmix asphalt stipulation applies. The placement of 2" temporary hotmix asphalt along sections of roadway with concrete base shall not be compensated separately for payment.

7.4 PERMANENT PAVEMENT RESTORATION ON STATE OF RHODE ISLAND OWNED ROADS

7.4.1 For state-owned roads, at a minimum, the restored pavement thickness shall match the existing depth of the roadway, or equal six (6) inches, whichever is greater. All edges of existing paving or surfacing shall be re-sawcut with an abrasive wheel power saw to a neat, straight, and parallel alignment rectangular in shape, within the limits specified herein, prior to the placement of permanent restoration at no additional cost to the Owner. Under no circumstances shall the pavement cut be made using a hammer or drop weight. All pavement cuts shall be full depth through the pavement.

7.4.2 The temporary patch and the existing subgrade material shall be removed to a depth of nine (9) inches. Compaction of the subgrade material shall be accomplished by means

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of a mechanical compactor.

7.4.3 Six (6) inches of a bituminous concrete plant mix base course will be placed in two (2) equal layers (3" maximum depth) and compacted with mechanical equipment. All thicknesses shall be after compaction.

7.4.4 Bituminous concrete binder courses will be placed in equal layers (3" maximum depth per binder layer) and compacted with mechanical equipment. A sufficient amount of bituminous concrete binder course (minimum 4") will be placed to a point four (4) inches below the existing surface. A two (2) inch bituminous concrete wearing course will be placed to complete the restoration. All thicknesses shall be after compaction.

7.4.5 Prior to the placement of the final surface course, all edges of the adjacent pavement shall be thoroughly coated with an asphalt emulsion tack coat to ensure proper bonding of both new and old pavements.

7.4.6 The paving mixture shall be compacted by means of a power roller of sufficient size, or as directed by the OWNER, to give proper compaction. In places inaccessible to the roller, compaction must be accomplished by means of a mechanical compactor. All thicknesses shall be after compaction

7.5 PERMANENT RESTORATION OF BITUMINOUS SIDEWALKS AND DRIVEWAYS

7.5.1 In areas where existing sidewalks are to be removed and/or new sidewalks construction is required, the Contractor's attention is directed to the fact that miscellaneous items such as parking meter and/or bases, traffic control signs, light poles and bases, mail boxes, etc. are not specified in the contract. However, all items shall be protected from damage and shall remain in place unless removed by others. All curb stop (valve) boxes, gate boxes, frame and covers, etc., shall be reset to finish flush with the new sidewalk pavement.

7.5.2 Impacted asphalt sidewalks and driveways full width shall be restored in accordance with RI Standard 43.2.0. Asphalt sidewalks and driveways shall be paved with a full depth of three (3) inches (2 lifts of 1½ inches each) of the same material used for bituminous concrete street surface course. The Contractor shall remove 2 inches of temporary pavement and an additional one inch of the pavement material to provide the space for the 3 inches of permanent pavement. The paving mixture shall be compacted by means of a power roller of sufficient size, or as directed by OWNER, to give proper compaction. In areas inaccessible to the roller, compaction must be accomplished by means of a mechanical compactor.

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7.5.3 Compaction of the subgrade material must be accomplished by means of a mechanical compactor.

7.5.4 The elevation of the new sidewalk surface shall match the original surface elevation prior to disturbance.

7.6 PERMANENT RESTORATION OF CONCRETE SIDEWALKS AND DRIVEWAYS

7.6.1 Contractor shall restore full panels of impacted concrete sidewalk in accordance with RI Standard 43.1.0; and full panels of impacted concrete driveways in accordance with RI Standard 43.5.0.

7.6.2 In areas where existing sidewalks and driveways are to be removed and/or new sidewalks construction is required, the Contractor's attention is directed to the fact that miscellaneous items such as parking meter and/or bases, traffic control signs, light poles and bases, mail boxes, etc. are not specified in the contract. However, all items shall be protected from damage and shall remain in place unless removed by others. All curb stop (valve) boxes, gate boxes, frame and covers, etc., shall be reset to finish flush with the new sidewalk pavement.

7.6.3 Where a replacement sidewalk or driveway meets or abuts an existing sidewalk or driveway, the existing sidewalk or driveway shall be neatly saw cut at existing "dummy joints" and the new surface shall match the original condition prior to disturbance.

7.6.4 The thickness of sidewalks and driveways shall be in accordance with Local, City, Town and/or State regulations and ordinances at the time of construction, to a minimum depth of four (4) inches for sidewalks and six (6) inches at driveways, or to the depth of existing concrete, whichever is greater. The temporary pavement and sufficient additional depth of base material shall be removed to provide space for the required depth of concrete.

7.6.5 Placing of Portland Cement Concrete shall be performed in such a way as to avoid segregation of materials.

7.6.6 All concrete shall be formed, unless specified or directed otherwise. Forms shall be true to line and grade. Forms and form supports shall be subject to approval, but responsibility for their adequacy shall rest with the Contractor. Forms shall be properly braced and tied together so as to maintain position, shape and lateral stability. Forms

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PAVING, SURFACING, AND PERMANENT REPAIRS TO STREETS, DRIVEWAYS, AND SIDEWALKS

shall be maintained sufficiently rigid to prevent deformation under load and when concrete is tamped or vibrated. Studs shall be spaced sufficiently close to prevent deflection of form material and consequent waviness in surface of concrete. Upon removal of side forms, the sides of the exposed slabs shall be protected immediately to provide a curing treatment equal to that provided for the surface.

7.6.7 The entire surface of the pavement shall be sprayed uniformly with white pigmented curing compound immediately after the finishing of the surface on and before the set of the concrete has taken place. The curing compound shall be of such character that the film will harden within 30 minutes after application. Should the film become damaged from any cause within the required curing period, the damaged portions shall be repaired immediately with additional compound. The curing compound shall not be applied during rainfall. Curing compound shall be applied under pressure at the rate of one gallon to not more than 150 square feet by mechanical sprayers. The spraying equipment shall be of the fully atomizing type equipped with a tank agitator. At the time of use, the compound shall be in a thoroughly mixed condition with the pigment uniformly dispersed throughout the vehicle. During application the compound shall be stirred continuously by effective mechanical means. Hand spraying of odd widths or shapes shall not be permitted nor shall concrete compound be applied to the inside faces of joints to be sealed.

7.6.8 During curing, the concrete work shall be protected from pedestrian, animal, and vehicular traffic. The entire surface of the concrete shall set for a period of 72 hours, during which time all pedestrian and vehicular traffic shall be excluded. It is the Contractor's responsibility to protect concrete from all and any damage or displacement, including vandalism and weather.

7.6.9 Should a sidewalk panel be disturbed or damaged (broken, chipped, sawcut, removed, etc.) during the course of construction, the entire sidewalk panel shall be replaced as defined in this section. Partial sidewalk replacement or "knockouts" are not permitted. Saving the existing sidewalk panel to place back into the panel opening shall also not be permitted. Contractor shall replace entire sidewalk panel(s) within the limits of disturbance. Limits of sidewalk replacement shall be at the existing control joints of damaged and/or disturbed panels. Sidewalks shall be replaced in full accordance with all standards, requirements, details, licenses, and permits of the municipality in which the sidewalk is located.

7.7 PERMANENT RESTORATION OF CURBING

7.7.1 All existing concrete, granite, or bituminous curbing, which is disturbed or removed as a result of the Contractor's operations, shall be reinstalled, reset, or installed in kind

SECTION 08000

PAVING, SURFACING, AND PERMANENT REPAIRS TO STREETS, DRIVEWAYS, AND SIDEWALKS

and reset to original grade or in the case of bituminous curbing by the Contractor in a manner satisfactory to the Owner and the proper municipal and state officials, as applicable, having jurisdiction of the work area. This restoration work, which may require the cutting, trimming and fitting of the curbing, to satisfactorily reset the concrete or granite curbing or to install bituminous curbing, shall be performed at no additional expense to the Owner. The Contractor shall perform the utility work so as to minimize the impact and disturbance, if any, of the existing street curbing, and/or allow for the restoration of the disturbed curbing by resetting the existing concrete or granite curbing, or installing bituminous curbing, at the service replacement location. All curbing damaged or removed as a result of the Contractor's operations shall be repaired, reinstalled, replaced or restored by the Contractor in a manner satisfactory to the Owner and to the satisfaction of the proper state and municipal officials having jurisdiction of the in question, at no additional expense to the Owner.

7.7.2 Whereupon it is determined in the field that the existing concrete or granite curbing cannot be satisfactorily reset due to existing curb conditions, the Contractor will be directed to reset or remove and replace the existing curbing with new vertical face concrete or granite curbing beyond the typical service trench limits of disturbance and removal. Existing unsatisfactory curb conditions, which would prevent the satisfactory resetting of the existing curbing, include previously damaged or broken curb; broken or deteriorated concrete curbing; or sections of curbing missing from the existing street curb line at the location of the service work. Whereupon the Contractor is directed to reset existing curbing beyond the typical service trench limits, as approved by the Owner, the resetting of existing concrete or granite curbing will be measured for payment as described in Section 01150 "Measurement and Payment" of these Contract Specifications. Whereupon the Contractor is directed to perform the new curb replacement work, as approved by the Owner, the furnishing and installation of the new concrete or granite curbing, will be measured for payment as described in Section 01150 "Measurement and Payment" of these Contract Specifications. Similarly, whereupon the Contractor is directed to replace bituminous curbing within approved limits at a specific location, the installation of the new bituminous curbing will also be measured for payment as described in Section 01150 "Measurement and Payment" of these Contract Specifications.

7.7.3 New precast concrete or granite curbing, which may be required for select curbing restoration as directed by the Owner, shall be approved by the local municipal Department of Public Works, or the RI Department of Transportation (RIDOT), as applicable, for local streets or state roadways. Vertical face granite curbing shall conform to ASTM C615 standards and the fabrication requirements of Section M.09 (Curbing) of the RIDOT Standard Specifications for Bridge and Road Construction, latest edition. New precast concrete curbing shall also be furnished in accordance with

SECTION 08000
PAVING, SURFACING, AND PERMANENT REPAIRS
TO STREETS, DRIVEWAYS, AND SIDEWALKS

the material and fabrication requirements of Section M.09 of the aforementioned RIDOT Standard Specifications. The installation of both granite curbing and precast concrete curbing, as may be required for select curbing restoration, as directed by the Owner, shall also conform to the construction methods of the RIDOT Standard Specifications. Unless otherwise directed, the new granite or precast concrete curbing shall be set so as to match the existing curb reveal of the existing adjacent curbing.

7.7.4 New bituminous curbing, which may be required for select curbing restoration as directed by the Owner, shall be approved by the local municipal Department of Public Works, or the RI Department of Transportation (RIDOT), as applicable, for local streets or state roadways. Bituminous curbing shall conform to the material and fabrication requirements of Section M.09 (Curbing) of the RIDOT Standard Specifications for Bridge and Road Construction, latest edition. The installation of bituminous curbing shall also conform to the construction methods of the RIDOT Standard Specifications. The Contractor shall utilize suitable equipment for the placement of the bituminous curbing, or utilize an alternate means and method to satisfactorily restore the curbing in a manner compatible with the curb reveal and shape of the existing bituminous curbing.

7.8 RESTORATION OF PAVEMENT MARKINGS

7.8.1 When applicable, the Contractor shall replace, at no additional expense to the Owner, all roadway pavement markings in the same locations as originally located prior to initial construction operations with epoxy resin paint, as per the RIDOT Standard Specifications.

7.8.2 Permanent epoxy resin pavement markings shall be placed no sooner than two (2) weeks but no later than four (4) weeks from the completion of the paving operation.

7.8.3 After final paving, as well as before permanent pavement markings are installed, Permittee shall install temporary waterborne reflectorized pavement markings, placed in the same locations as original markings, on any roadways opened to traffic at the completion of any day's paving operation.

7.8.4 Temporary pavement markings shall be furnished at disturbed locations, as an interim measure until permanent markings can be installed. The Contractor shall maintain these markings, at no additional cost, throughout the winter season.

7.9 ADJUSTMENTS OF UTILITY APPURTENANCES TO GRADE

7.9.1 At no additional expense to the Owner, all valve boxes, curb stops, manhole frames and covers, catch basin frames and grates which are disturbed by construction operations

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TO STREETS, DRIVEWAYS, AND SIDEWALKS

shall be reset and adjusted to grade at the elevation of the final pavement in accordance with the specified procedures of the appropriate utility.

7.10 STAMPED CONCRETE

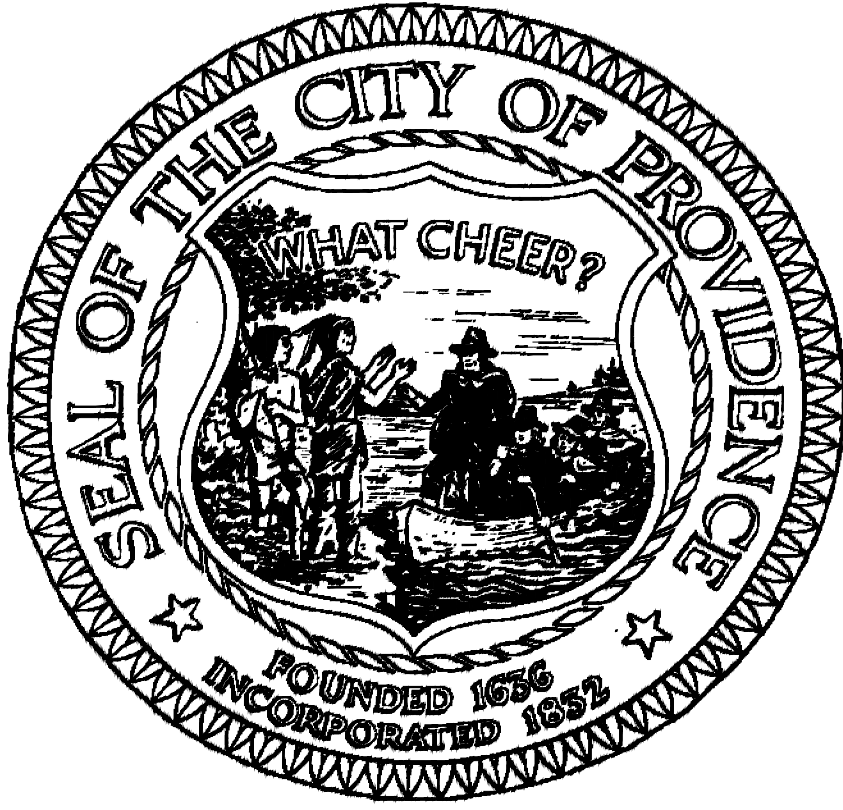
- 7.10.1** When encountered, the restoration of stamped or decorative concrete crosswalks, sidewalks, and roadway segments, shall be subject to local DPW requirements and restored at their discretion.

7.11 BRICK AND COBBLESTONE RESTORATION

- 7.11.1** Brick or cobblestone sidewalk, driveway, and street restoration, which may be required as directed by the Owner, shall be approved by the local municipal Department of Public Works for local streets. The existing brick or cobblestone shall be removed manually from within the limits required for trench excavation as approved by the Owner. The existing brick or cobblestone shall be cleaned of all extraneous matter and washed for re-use. The Contractor shall carefully stockpile and protect the existing brick or cobblestone until such time that the brick or cobblestone is required for the final restoration. Whereupon it is determined in the field that the existing bricks or cobblestones, or a portion thereof, are damaged and not suitable for re-use, the Contractor shall furnish new bricks or cobblestones to satisfactorily complete the restoration.
- 7.11.2** The brick or cobblestone shall be placed and arranged in the same pattern as the adjacent brick or cobblestone areas. The subgrade shall be excavated sufficiently to allow for placement of a 2-inch deep sand or stone dust base matching the existing base, which shall be uniformly graded and compacted prior to placement of the bricks. Unless otherwise directed, the final brick or cobblestone surface restoration shall match the longitudinal and transverse grades of the existing pavement, and the bricks or cobblestones shall be neatly placed and arranged to match and interlock with the existing pattern. Upon completion of the placement of bricks, the restored area shall be swept with sand or stone dust to fill the joints of the brick. The work area shall then be cleaned of all residual sand, stone dust, or other soil spillage.

END OF SECTION

ATTACHMENT 7



CITY OF PROVIDENCE
WATER SUPPLY BOARD

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CHAIRPERSON

RICKY CARUOLO
GENERAL MANAGER

JUAN M. PICHARDO
COUNCIL PRESIDENT PRO TEMPORE

JOSEPH D. CATALDI
VICE CHAIRPERSON

SARA SILVERIA
EX-OFFICIO

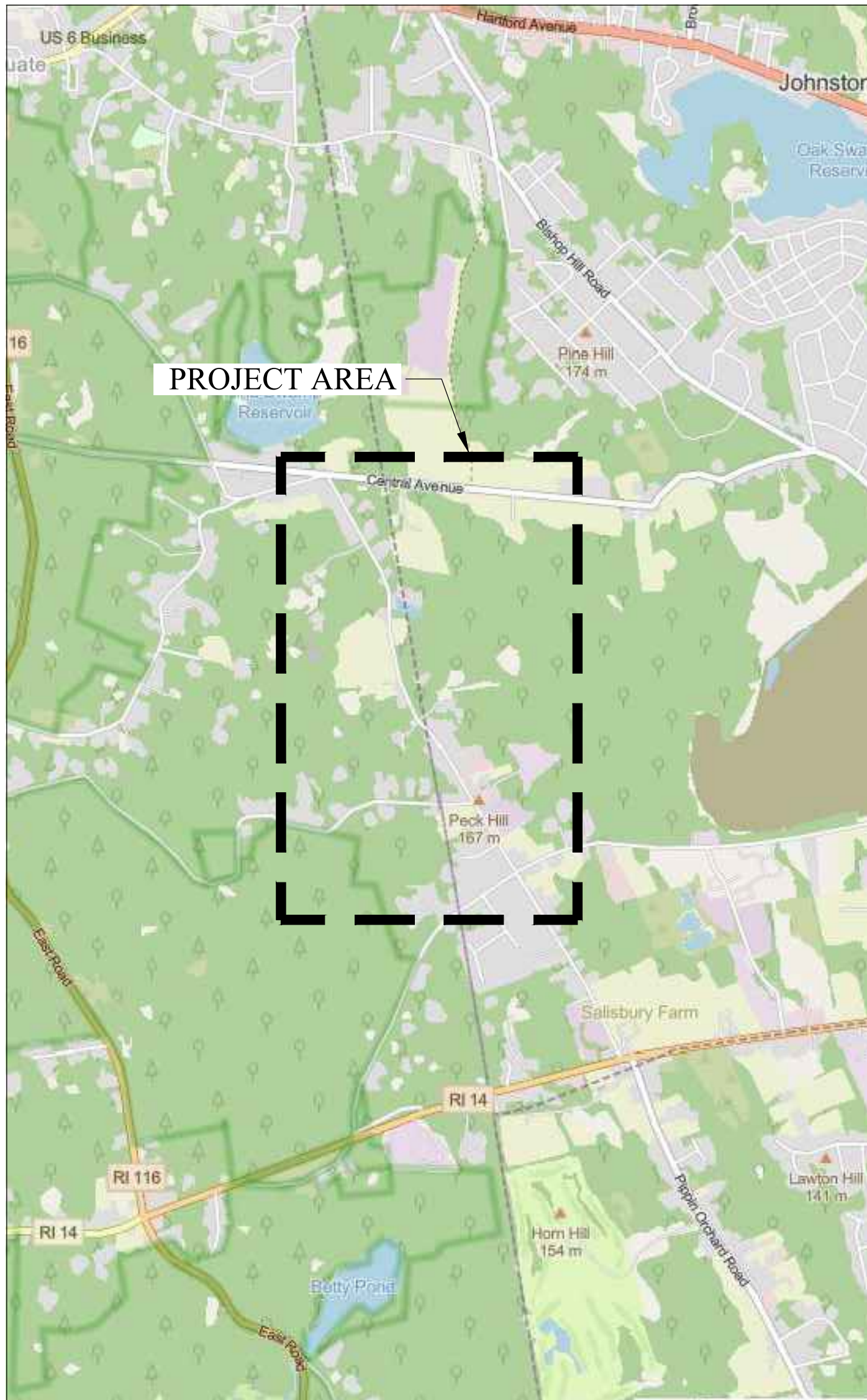
OSCAR O. VARGAS
COUNCILPERSON

DR. ALMA M. GUERRERO BREADY
MEMBER

CRISTEN L. RAUCCI, ESQ.
MEMBER

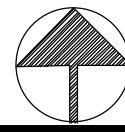
WILLIAM E. O'GARA, ESQ.
LEGAL ADVISOR

CARISSA R. RICHARD
SECRETARY



VICINITY MAP

MAP SOURCE: CITY OF PROVIDENCE GIS MAP, (2023)



WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

CONTRACT NUMBER:

CONTRACT 1-24

ISSUED FOR BID:

January 17th, 2024.

DRAWING TYPE:

BID PLANS Rev 1

CONTRACT NOTES

- CONTRACTOR SHALL REVIEW ALL EXISTING AS-BUILT DOCUMENTATION AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD.
- UNLESS OTHERWISE NOTED, EXISTING 6", 8" & 12" CAST-IRON WATER MAIN AS INDICATED SHALL BE CLEANED & CEMENT-MORTAR LINED WITHIN THE LIMITS OF WORK ALONG THE RESPECTIVE STREETS.
- SELECT SECTIONS OF THE EXISTING CAST-IRON WATER MAINS SHALL BE REMOVED AND REPLACED WITH NEW DUCTILE IRON (DI) WATER MAIN AS SHOWN ON DRAWINGS. SIZES SHALL BE IDENTICAL TO EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
- ALL APPURTENANCES (VALVES, TEES, HYDRANTS, ETC.) SHALL BE REMOVED & REPLACED AS INDICATED ON DRAWINGS INCLUDING ALL COUPLINGS, RESTRAINTS, HARDWARE, ETC.

- ALL PIPE, COUPLINGS, SLEEVES, FITTINGS, HARDWARE, ETC. INSTALLED UNDER THIS PROJECT SHALL BE NEW. ANY EXISTING COUPLINGS, SLEEVES, HARDWARE, ETC. REMOVED FOR NEW CONNECTIONS TO EXISTING FEATURES SHALL BE REPLACED.
- ALL EXISTING LEAD SERVICES SHALL BE REPLACED WITH NEW COPPER SERVICES. SERVICE SIZE SHALL MATCH EXISTING. EXISTING LEAD SERVICES LESS THAN 1" SHALL BE REPLACED WITH 1" COPPER.
- ALL CAST IRON SERVICES WHERE NOTED ON THE DRAWINGS SHALL BE REPLACED TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
- SERVICES FOUND CLOSED AT CURB STOP ARE TO BE LEFT IN CLOSED POSITION.

SHEET INDEX

| SHEET NO. | SHEET NAME | SHEET NO. | SHEET NAME |
|-----------|-------------|-----------|--------------|
| 1 | COVER SHEET | 9 | AREA 7 PLAN |
| 2 | KEY MAP | 10 | AREA 8 PLAN |
| 3 | AREA 1 PLAN | 11 | AREA 9 PLAN |
| 4 | AREA 2 PLAN | 12 | AREA 10 PLAN |
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| 6 | AREA 4 PLAN | | |
| 7 | AREA 5 PLAN | | |
| 8 | AREA 6 PLAN | | |

LEGEND

| EXISTING CONDITIONS | ABBREVIATIONS |
|------------------------------------|------------------------|
| PROPERTY LINE | AC ASBESTOS CEMENT |
| CURB LINE/ROAD | CI CAST IRON |
| INFRASTRUCTURE TO REMAIN | CIR CAST IRON RELINED |
| SERVICE LINE INFORMATION | CNU CLOSED - NON USE |
| VALVES TO REMAIN | DI DUCTILE IRON |
| PIPE STUB WITH CAP | RC REINFORCED CONCRETE |
| BLOWOFF WITH CAP TO REMAIN | UNK UNKNOWN |
| AIR RELEASE TO REMAIN | NL NOT LEAD |
| MAIN LINE - LOW SERVICE TO REMAIN | |
| MAIN LINE - HIGH SERVICE TO REMAIN | |
| HYDRANT TO REMAIN | |

| CONTRACT WORK | |
|---|---------------------|
| LEAD SERVICE LINE TO BE REMOVED, REPLACE PER SPEC | |
| OTHER SERVICE LINE TO BE REMOVED | |
| HYDRANT ASSEMBLY TO BE REPLACED | |
| GATE VALVE TO BE REPLACED | |
| BUTTERFLY VALVE TO BE REPLACED | |
| DIVISIONAL VALVE TO BE REPLACED | |
| BLOWOFF WITH CAP TO BE REPLACED, SIZE PER PLAN | |
| MAIN LINE TO BE ABANDONED | |
| DUCTILE IRON WATER MAIN, SIZE TO MATCH EX. CONDITIONS | |
| WATER MAIN TO BE CLEANED AND LINED (C&L) | |
| GATE VALVE, SIZE PER PLAN | |
| MECHANICAL COUPLING, SIZE PER PLAN | |
| TEE, SIZE TO MATCH EXISTING CONDITIONS | |
| CROSS, SIZE TO MATCH EXISTING CONDITIONS | |
| HORIZONTAL BEND | |
| TAP AND SLEEVE VALVE | △ THRUST BLOCK (TB) |
| REDUCER | ≡ SOLID SLEEVE |

DUCTILE IRON PIPE RESTRAINT GUIDE

| BEND | | | | END CAPS | | REDUCERS | |
|-----------|------------------|-----|-----|-----------------------|------|-----------------------|-----|
| PIPE SIZE | RESTRAINT LENGTH | | | PIPE SIZE RESTRAINT L | | PIPE SIZE RESTRAINT L | |
| 4" | 2' | 3' | 6' | 4" | 25' | 6"X4" | 18' |
| 6" | 2' | 4' | 9' | 6" | 35' | 8"X4" | 33' |
| 8" | 3' | 6' | 11' | 8" | 46' | 8"X6" | 19' |
| 10" | 3' | 6' | 13' | 10" | 55' | 10"X4" | 45' |
| 12" | 4' | 8' | 15' | 12" | 65' | 10"X6" | 34' |
| 16" | 5' | 10' | 19' | 16" | 83' | 10"X8" | 19' |
| 20" | 6' | 11' | 23' | 20" | 101' | 12"X4" | 56' |
| 24" | 7' | 13' | 27' | 24" | 119' | 12"X6" | 47' |
| 30" | 8' | 16' | 32' | 30" | 143' | 12"X8" | 35' |
| 36" | 9' | 18' | 37' | 36" | 167' | 16"X6" | 70' |
| 42" | 10' | 20' | 41' | 42" | 188' | 16"X8" | 61' |
| 48" | 11' | 22' | 46' | 48" | 210' | 16"X12" | 36' |

| TEE W/ 3' OF DI ON EACH SIDE | | | |
|------------------------------|-------------|-----------|-------------|
| PIPE SIZE | RESTRAINT L | PIPE SIZE | RESTRAINT L |
| 4"X4" | 3' | 10"X8" | 34' |
| 6"X4" | 11' | 10"X10" | 45' |
| 6"X6" | 25' | 12"X4" | 1' |
| 8"X4" | 7' | 12"X6" | 16' |
| 8"X6" | 22' | 12"X8" | 31' |
| 8"X8" | 36' | 12"X10" | 43' |
| 10"X4" | 2' | 12"X12" | 55' |
| 10"X6" | 19' | 16"X12" | 51' |
| 16"X6" | 9' | 16"X16" | 73' |
| 16"X8" | 26' | | |

NOTES

RESTRAIN LENGTH'S ARE CALCULATED IN FEET FROM FACE OF LIFTING TO CLOSEST BELL OR MECHANICAL JOINTS.

ALL CALCULATIONS ARE BASED ON THE PIPE BEDDED IN A 4" MINIMUM OF LOOSE SOIL BACKFILL, LIGHTLY CONSOLIDATED TO TOP PIPE AND THEN BACKFILLED TO A DEPTH OF 4.0'. ALSO THE PIPE HAVE A MAXIMUM PRESSURE OF 150 PSI.

GENERAL NOTES

- CONTRACT PLANS ARE DRAWN TO SCALE, HOWEVER ALL SYMBOLGY SHOWN ON DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND ARE NOT TO SCALE.
- EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO COMMENCING WORK.
- NEW WATER MAINS SHALL BE TESTED AND CHLORINATED IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS AND AS DIRECTED BY PROVIDENCE WATER.
- PROVIDENCE WATER MUST BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ANY SERVICE INTERRUPTION.
- ALL MATERIALS USED IN CONSTRUCTION, REPAIR OR MAINTENANCE OF THE WATER SYSTEM SHALL MEET THE APPROVAL OF PROVIDENCE WATER. AN APPROVED LIST OF MATERIALS AND MANUFACTURERS IS PROVIDED IN THE SPECIFICATIONS.
- NEW WATER MAINS SHALL BE CEMENT-LINED ZINC-COATED CLASS S2 DUCTILE IRON PIPE CONFORMING TO THE LATEST AWWA STANDARDS. (HIGH SERVICE MAINS WITHIN METRO PROVIDENCE AREA TO BE CL56 DI).
- PIPE FITTINGS SHALL BE CEMENT-LINED ZINC-COATED COMPACT DUCTILE IRON, CLASS 350 (AWWA C153), WITH MECHANICAL JOINT ENDS.
- ALL MECHANICAL JOINTS SHALL BE FURNISHED WITH MECHANICAL JOINT RESTRAINTS PLACED ON EACH SIDE OF IN-LINE FITTINGS. ALL PIPE JOINTS PRIOR TO END CAPS AND CHANGES IN PIPE DIRECTION SHALL BE RESTRAINED IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS.

- ALL RESTRAINING RODS & BOLTS, WHEN USED, MUST BE COATED WITH SPRAY BITUMINOUS COATING.
- UNLESS OTHERWISE NOTED, EARTH COVER OVER PIPE SHALL NOT BE LESS THAN 4.5 FEET.
- GATE VALVES SHALL BE RESILIENT SEAT TYPE WITH MECHANICAL JOINT ENDS AND SHALL OPEN "RIGHT" (CLOCKWISE).
- METALLIZED, DETECTABLE, IDENTIFICATION TAPE SHALL BE 2-INCHES WIDE, BLUE IN COLOR, AND IMPRINTED WITH THE WORDS "CAUTION - WATER LINE BURIED BELOW", AND SHALL BE INSTALLED OVER ALL MAINS AND HYDRANT RUN-OUTS AT A DEPTH OF 18-24 INCHES BELOW FINISHED GRADE.
- CURB STOPS SHALL BE INSTALLED 1 FT. TO 1-1/2 FT. BEHIND FACE OF CURB OR EDGE OF PAVEMENT. CURB STOPS ARE NOT TO BE INSTALLED IN EXISTING OR FUTURE DRIVEWAYS.
- UNLESS OTHERWISE NOTED, BREAKAWAY TYPE HYDRANTS, SHALL BE INSTALLED AT EXISTING LOCATIONS WITH OPERATING NUT POSITIONED 24-INCHES BEHIND FACE OF CURB OR EDGE OF PAVEMENT. THE BREAKAWAY FLANGE SHALL BE SET 2-INCHES TO 4-INCHES ABOVE FINISHED GRADE. HYDRANTS SHALL OPEN "RIGHT" (CLOCKWISE).
- PORTLAND CEMENT CONCRETE THRUST BLOCKS AND/OR GRAVITY BLOCKS SHALL BE CONSTRUCTED IN PLACE AT CHANGES OF PIPE DIRECTION (TEES, BENDS, ETC) AND/OR DEAD ENDS IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS.
- ALL UTILITIES TO BE ABANDONED SHALL BE CAPPED OR PLUGGED.

- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT EXPRESSED CONSENT FROM THE FIRE DEPARTMENT AND PROVIDENCE WATER.
- DEMOLITION OF BITUMINOUS PAVING AND CONCRETE SHALL BE PERFORMED BY SAWCUTTING ONLY. RIPPING OF PAVEMENT IS UNACCEPTABLE.
- UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS OR DESIGNATED AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT THE END OF EACH WORK DAY.
- ALL EXCAVATIONS SHALL BE TEMPORARILY PAVED AT THE CLOSE OF EACH DAYS WORK IN ACCORDANCE WITH EACH RESPECTIVE CITY OR TOWN PERMIT, AS REQUIRED PER SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION, REPAIRS AND/OR RESTORATION OF ALL AREAS ADJACENT TO THE CONTRACT AREA DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- ALL VALVES AND COUPLING CONNECTIONS AT WORK LIMIT TERMINATIONS SHALL BE RESTRAINED TO THE NEW PIPING FOR FUTURE WORK IN ADJACENT AREAS.



CONTRACT
1-24



GREGG GIASSON
EXECUTIVE ENGINEER

PETER R. LEPAGE
DIRECTOR OF ENGINEERING

COVER SHEET
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

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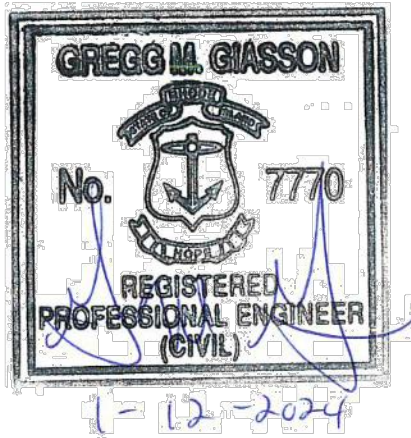
NR,CD
CHECKED BY

N/A
SCALE

1/9/2024
DATE

SHEET

1 OF 12



GREGG GIASSON
EXECUTIVE ENGINEER

P.R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

KEY MAP
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

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| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| NTS SCALE | 1/9/2024 DATE |

SHEET



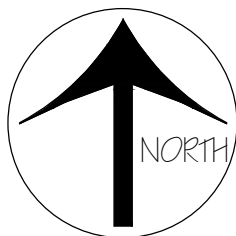
CONTRACT STREETS

KEY



INDEX

| NAME | SHEET NO. | P.W. REFERENCE NO. |
|----------------|------------------|--------------------|
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| CENTRAL AVENUE | 10,11,12 | 2024-054 |



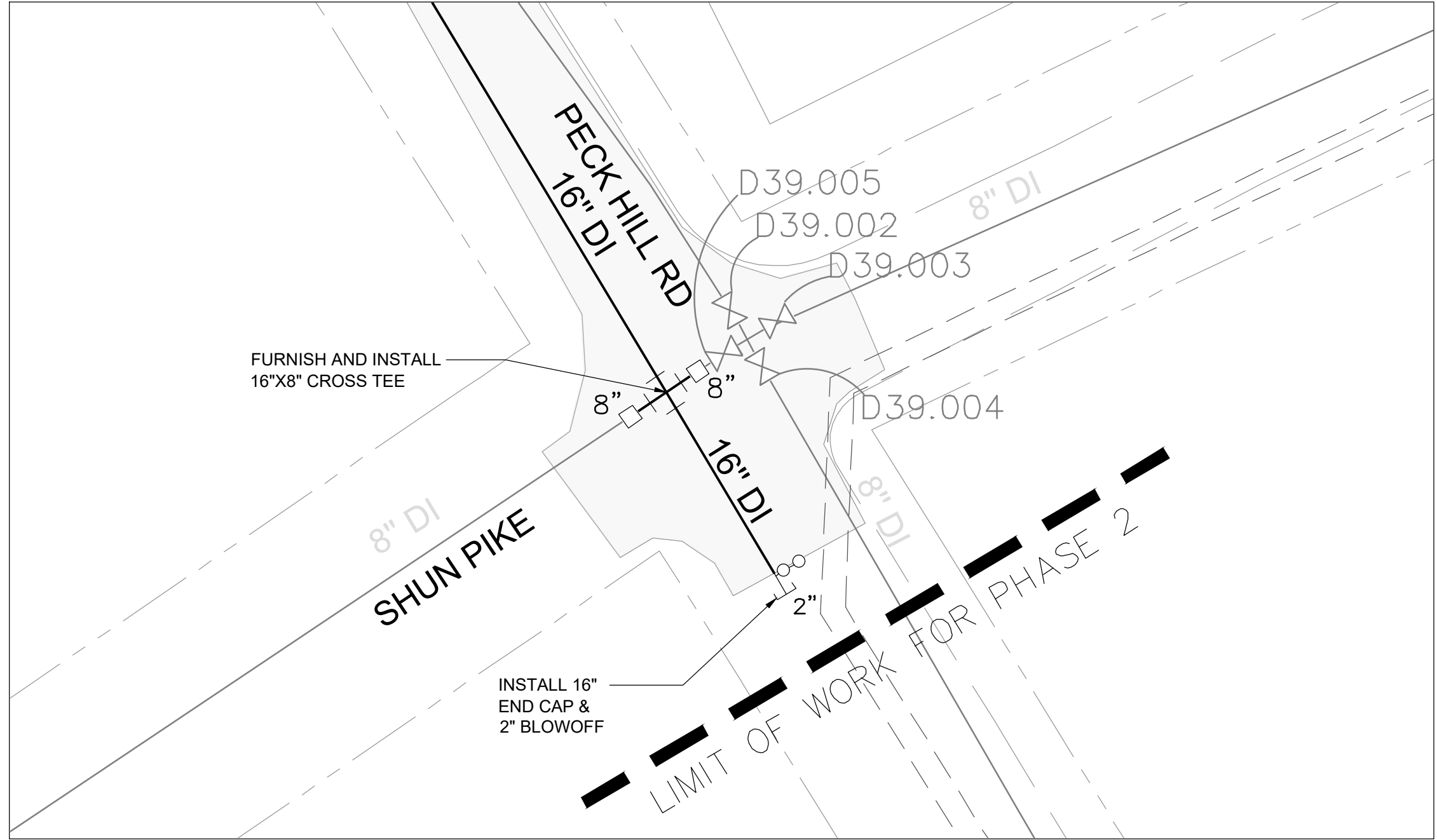
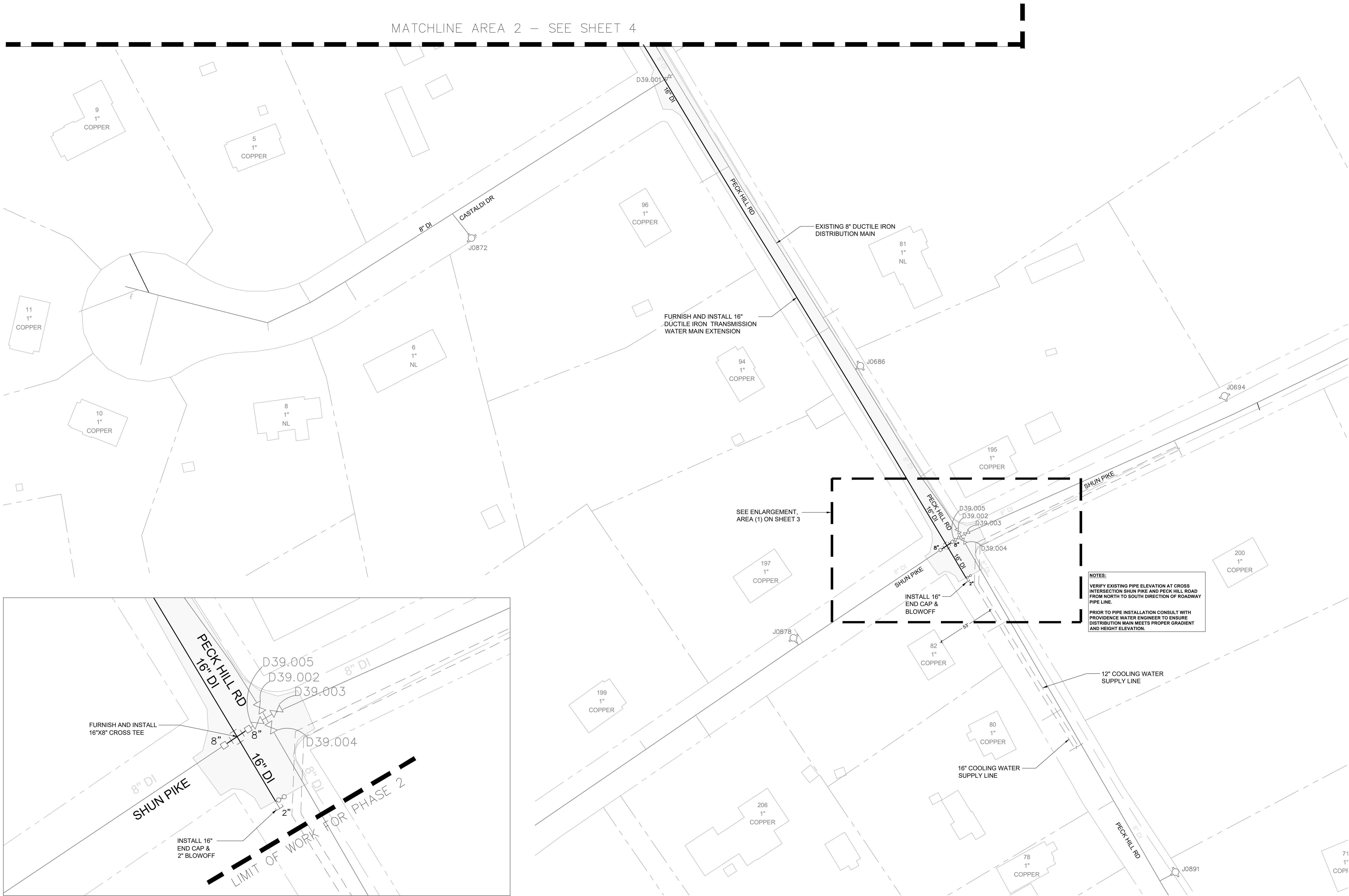
NOT TO SCALE

AREA 1 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

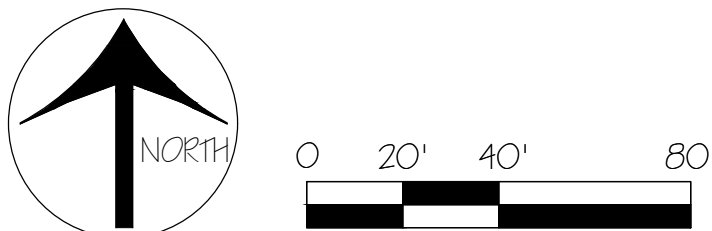
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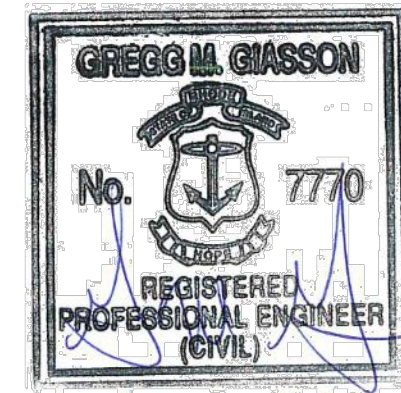
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| 1"=40' SCALE | 1/9/2024 DATE |

SHEET



1 ENLARGEMENT AREA 1
3 1"=20'





GREGG GIASSON
EXECUTIVE ENGINEER

PETER R. LEPAGE
DIRECTOR OF ENGINEERING

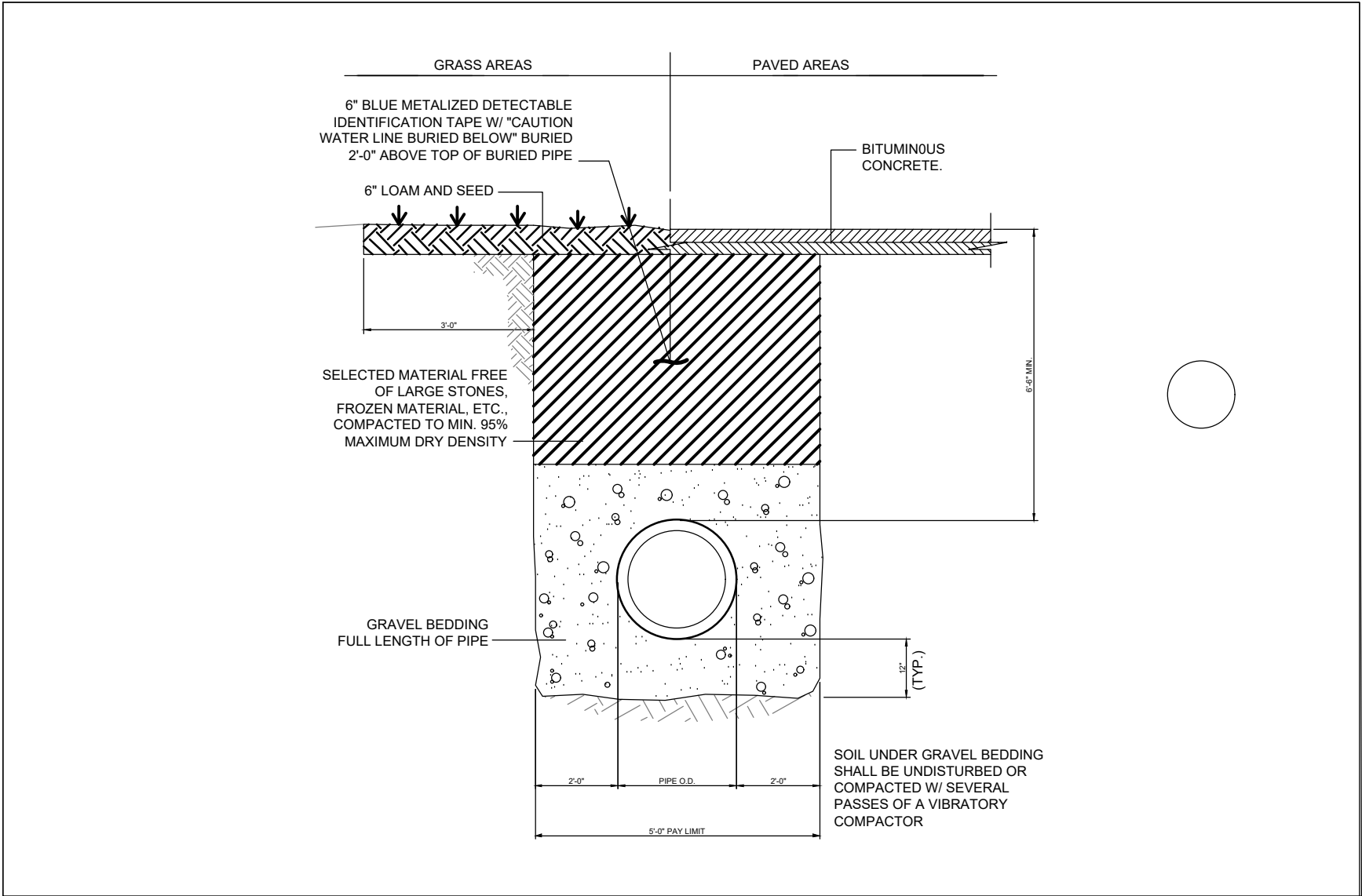
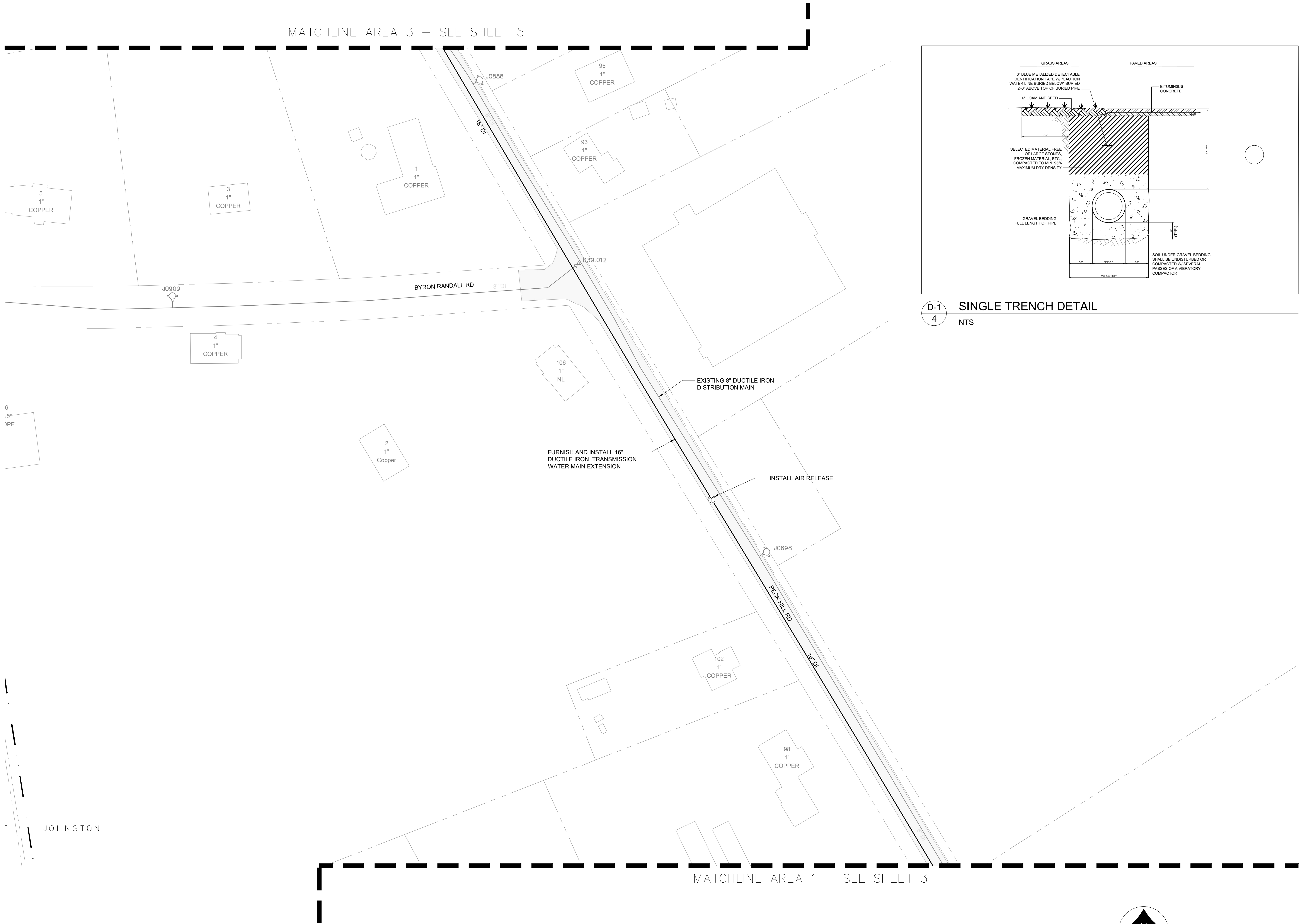
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WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

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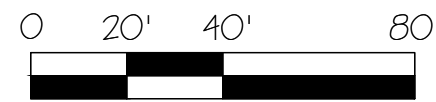
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4 OF 12

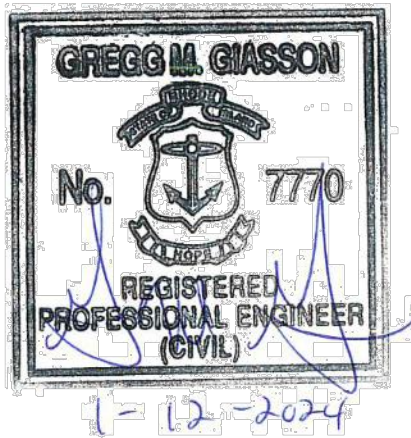


D-1
4
SINGLE TRENCH DETAIL
NTS





CONTRACT
1-24



GREGG GIASSON
EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

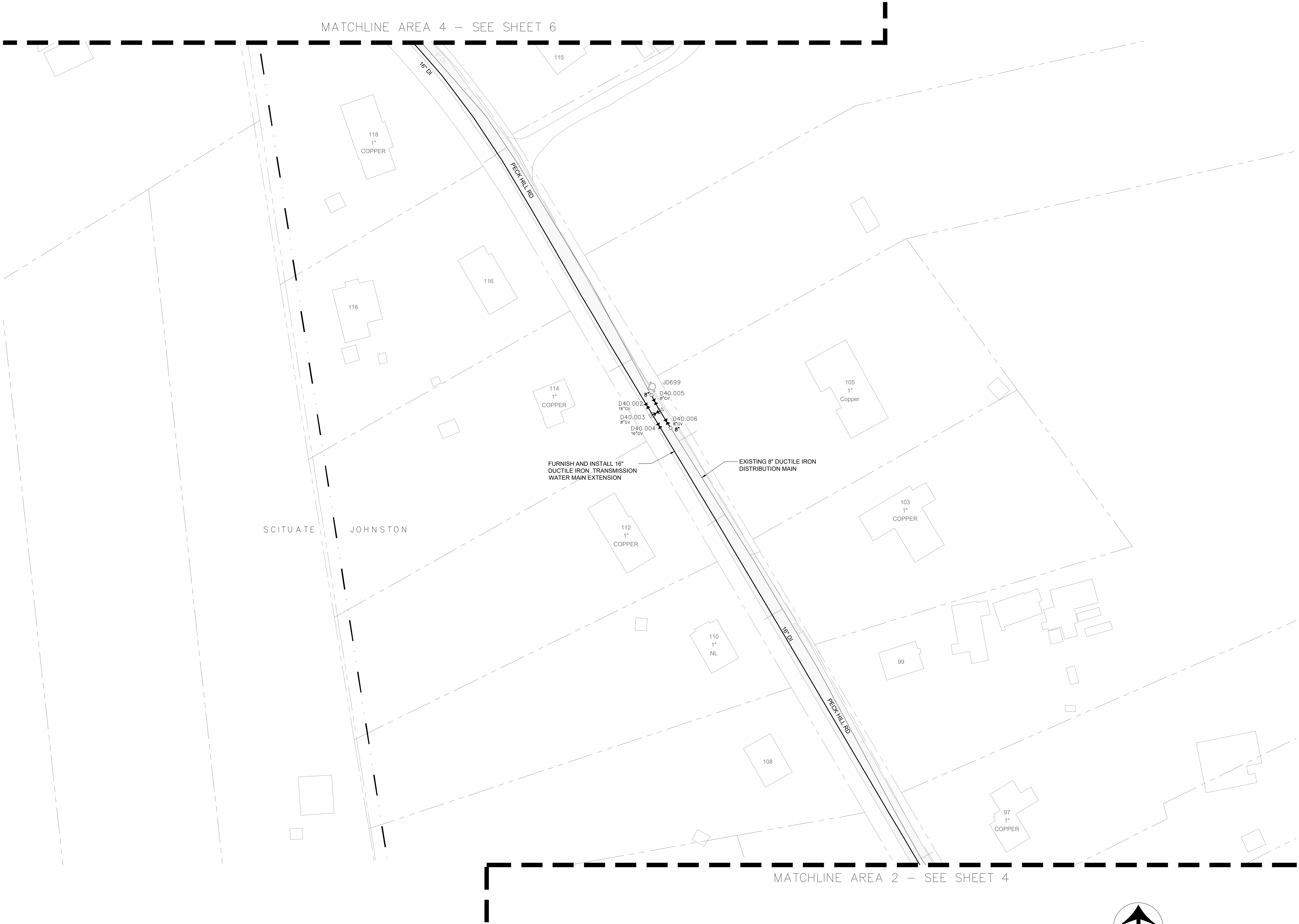
AREA 3 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

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| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

5 OF 12



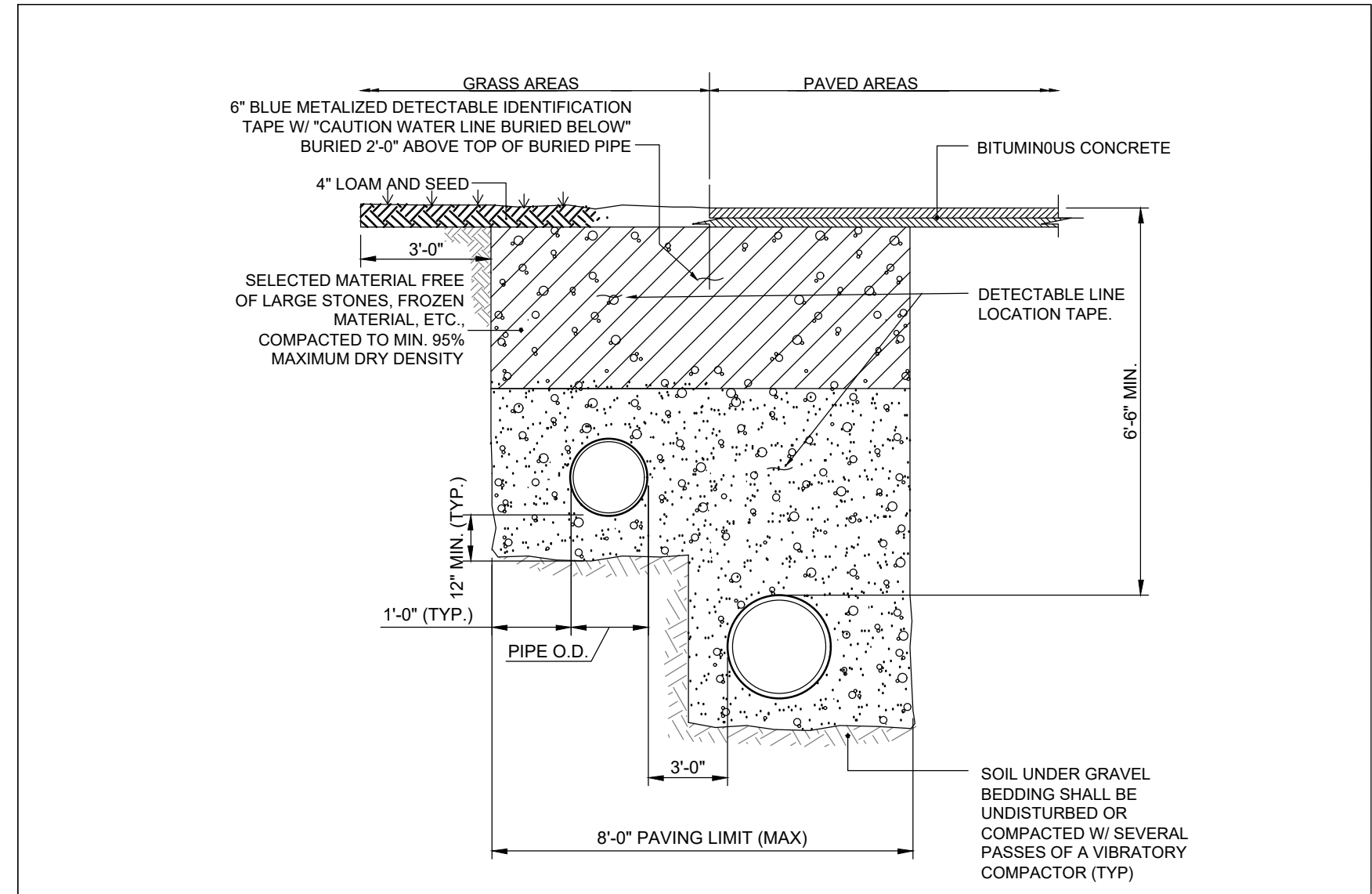
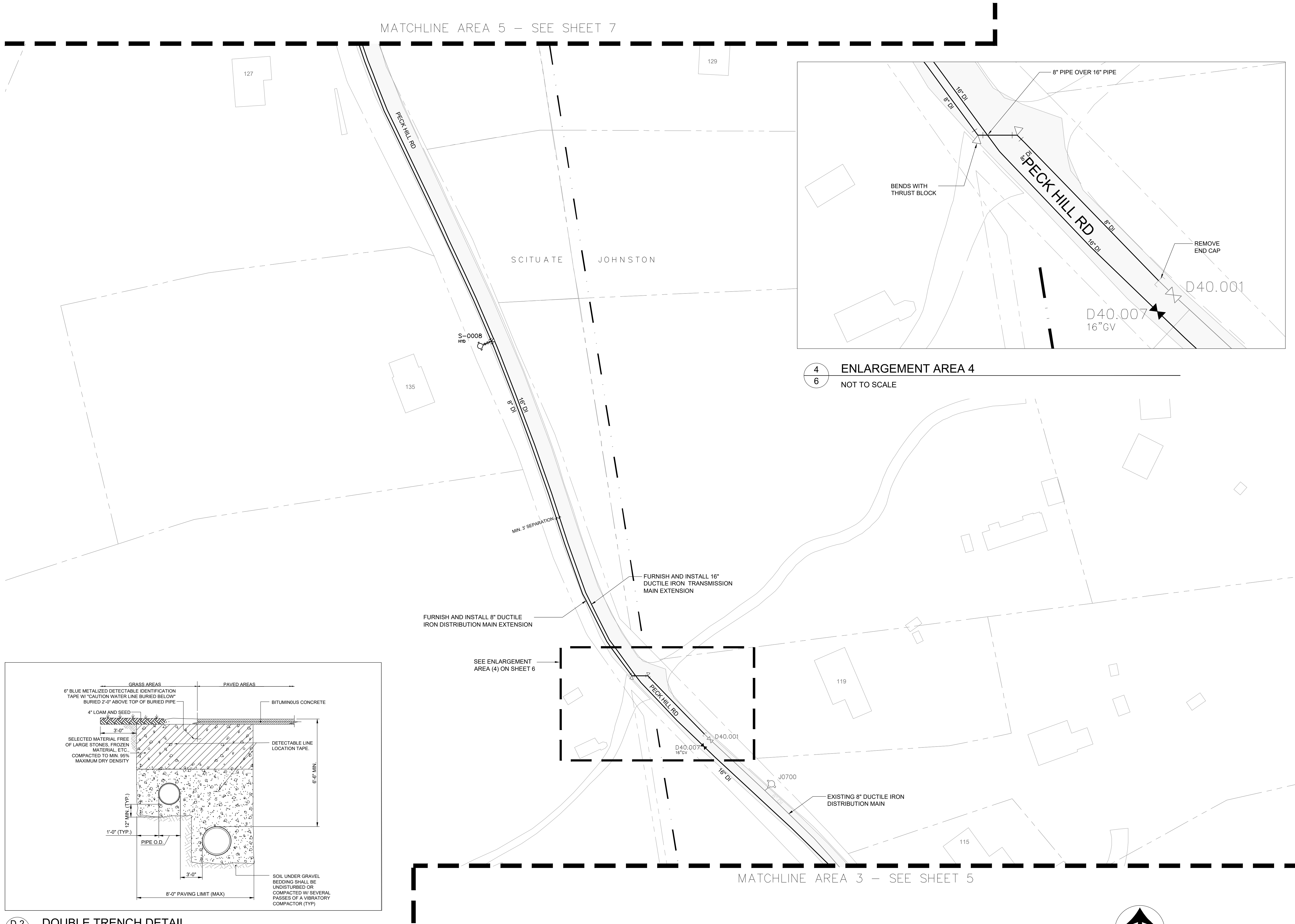
AREA 4 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

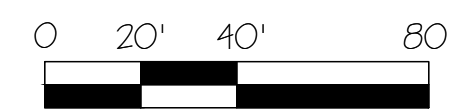
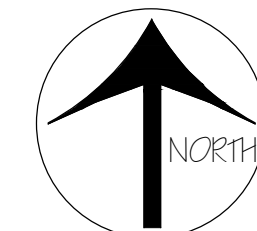
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| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

6 OF 12

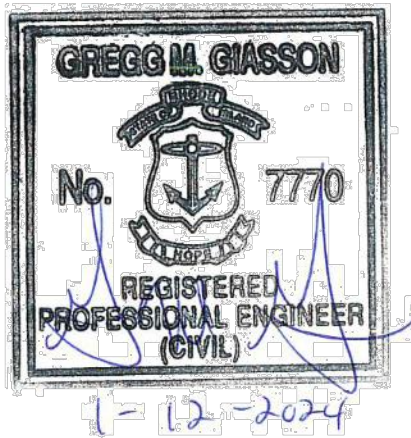


D-2
6
DOUBLE TRENCH DETAIL
NTS





CONTRACT
1-24



GREGG GIASSON
EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

AREA 5 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

| | |
|--------------------|---------------------|
| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

7 OF 12

MATCHLINE AREA 6 – SEE SHEET 8

SCITUATE JOHNSTON

S-0010
H&D

FURNISH AND INSTALL 8" DUCTILE
IRON DISTRIBUTION MAIN EXTENSION

FURNISH AND INSTALL 16"
DUCTILE IRON TRANSMISSION
MAIN EXTENSION

S-0009
H&D

D40.008
8"GV

MIN. 3' SEPARATION

PECK HILL RD

16 DI

8 DI

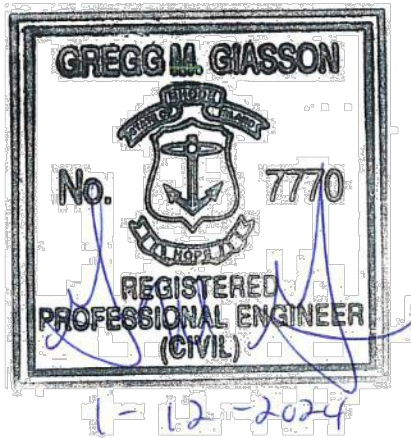
MATCHLINE AREA 4 – SEE SHEET 6



0 20' 40' 80'



CONTRACT
1-24



GREGG GIASSON
EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

AREA 6 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

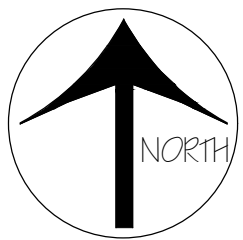
| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

| | |
|--------------------|---------------------|
| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

MATCHLINE AREA 7 – SEE SHEET 9

MATCHLINE AREA 5 – SEE SHEET 7



D41.003
8" DV
S-0012
HYD
D41.004
8" DV

D41.002
16" DV
S-0011
HYD
D41.001
16" DV

FURNISH AND INSTALL 8" DUCTILE
IRON DISTRIBUTION MAIN EXTENSION

FURNISH AND INSTALL 16"
DUCTILE IRON TRANSMISSION
MAIN EXTENSION

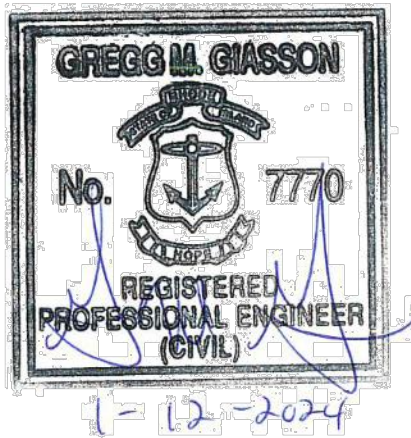
SCITUATE

JOHNSTON

PECK HILL RD



CONTRACT
1-24



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EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

AREA 7 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

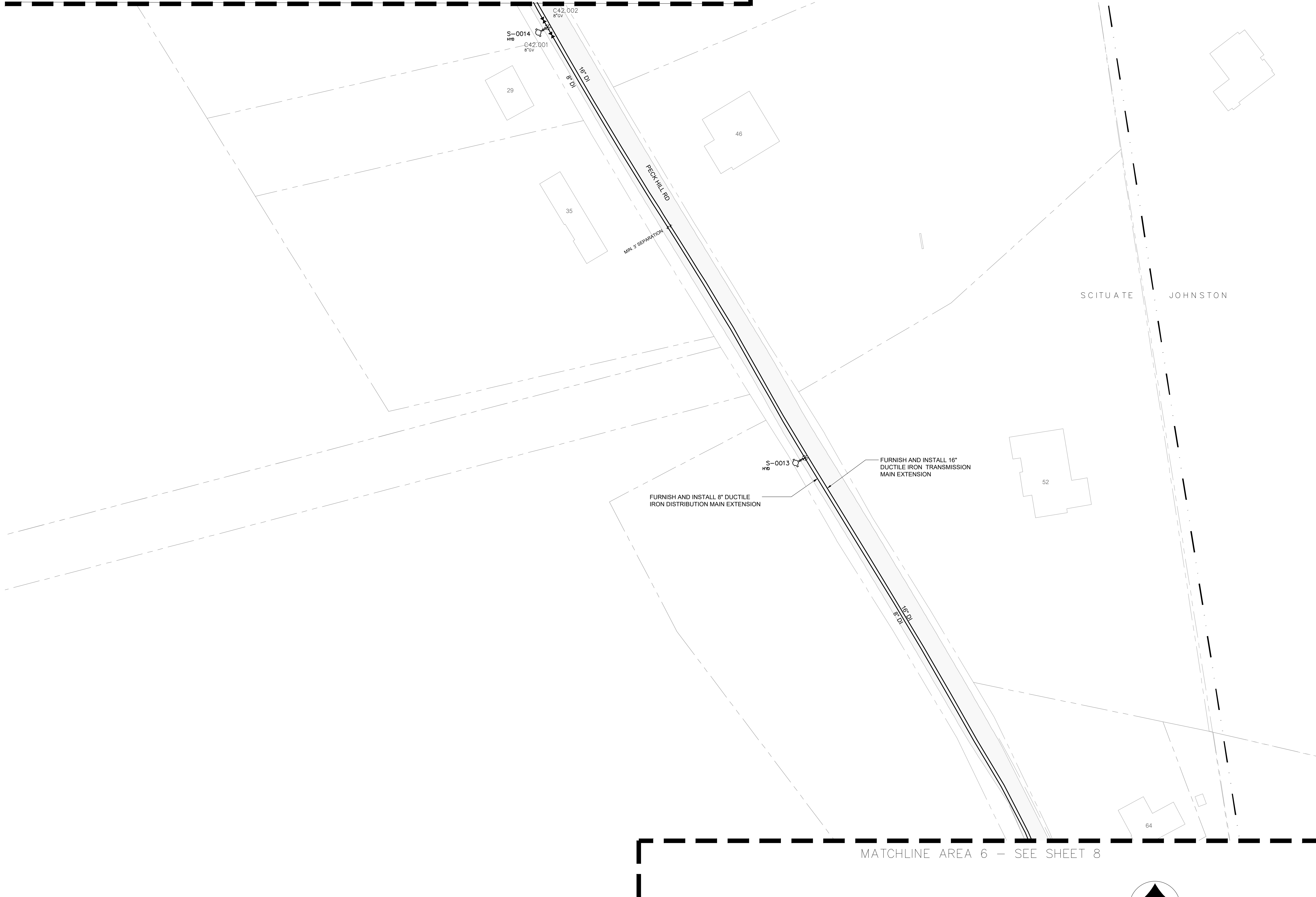
| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

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|--------------------|---------------------|
| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

9 OF 12

MATCHLINE AREA 8 – SEE SHEET 10





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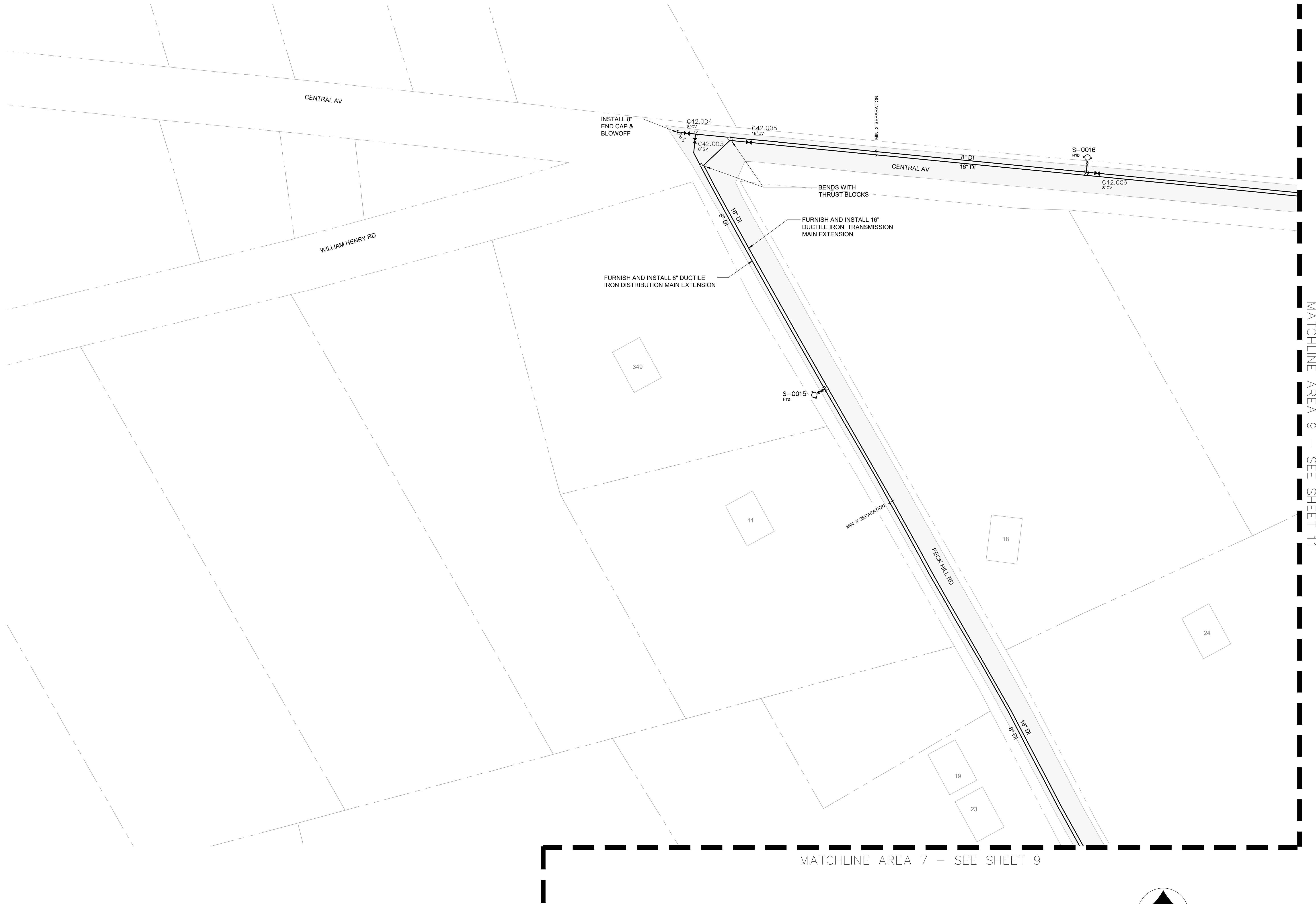
Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

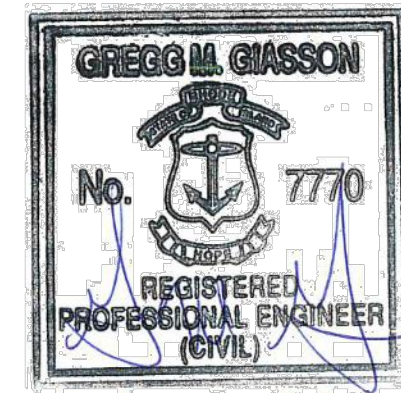
AREA 8 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

| | |
|--------------------|---------------------|
| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET





GREGG GIASSON
EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

AREA 9 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

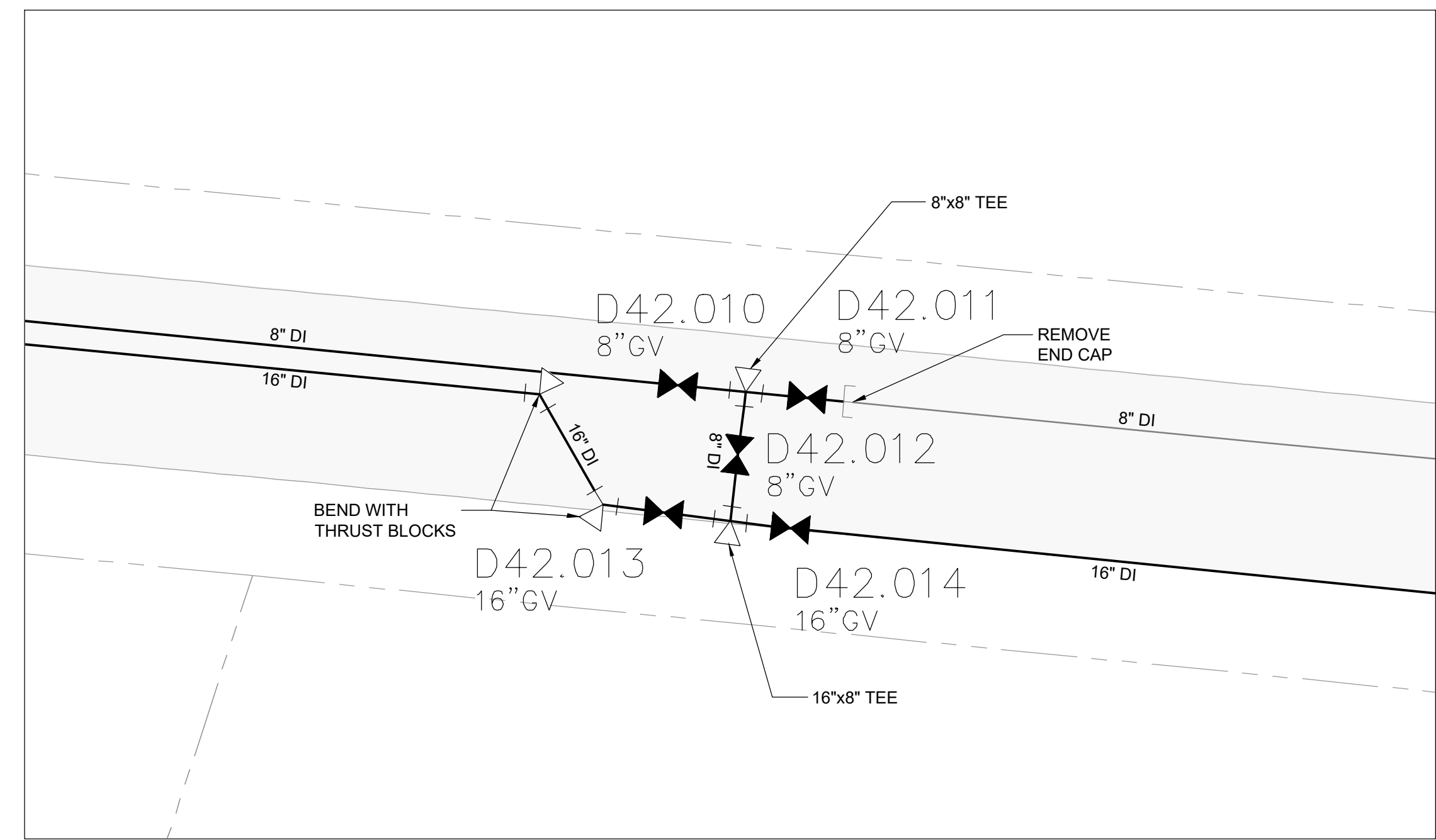
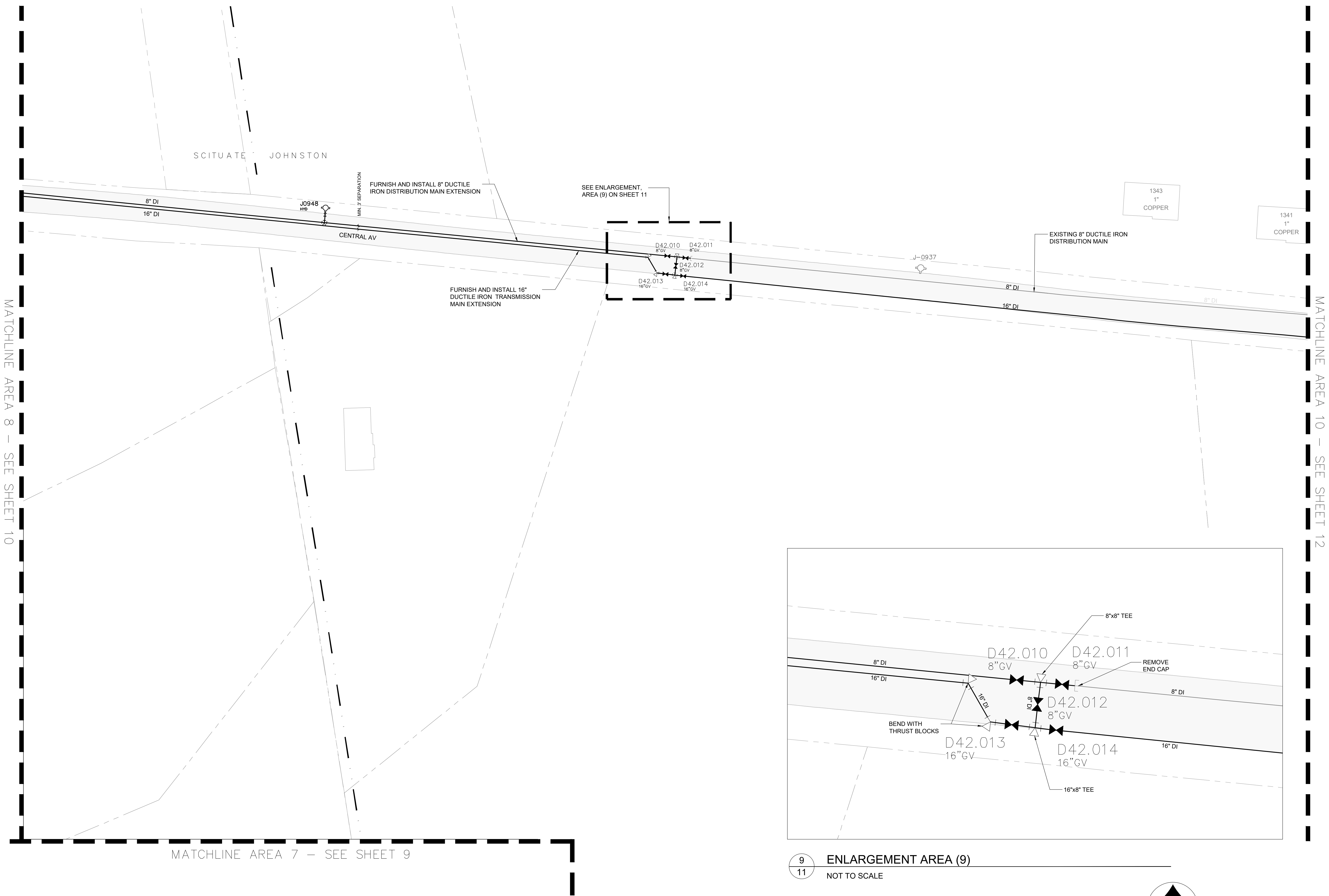
ES,PMP
DRAWN BY

NR,CD
CHECKED BY

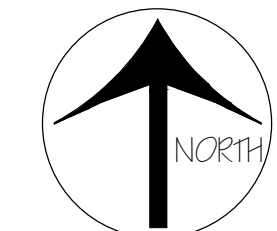
1"=40'
SCALE

1/9/2024
DATE

SHEET



9 ENLARGEMENT AREA (9)
11 NOT TO SCALE



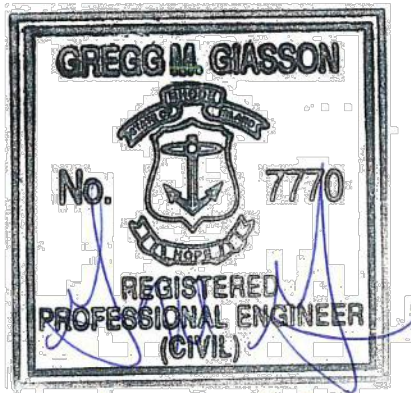
MATCHLINE AREA 8 - SEE SHEET 10

MATCHLINE AREA 10 - SEE SHEET 12

MATCHLINE AREA 7 - SEE SHEET 9



CONTRACT
1-24



GREGG GIASSON
EXECUTIVE ENGINEER

Peter R. Lepage
PETER R. LEPAGE
DIRECTOR OF ENGINEERING

AREA 10 PLAN
WATER MAIN DISTRIBUTION EXPANSION PROJECT
WESTERN JOHNSTON HIGH SERVICE EXPANSION
JOHNSTON AND SCITUATE, RI

| NO. | DATE | REVISION | APPROVED BY |
|-----|---------|----------|-------------|
| | 1/8/24 | | NR,CD |
| | 1/17/24 | | NR,CD |

| | |
|--------------------|---------------------|
| ES,PMP DRAWN BY | NR,CD CHECKED BY |
| 1"=40' SCALE | 1/9/2024 DATE |

SHEET

