



CITY OF PROVIDENCE, RHODE ISLAND

Department: Providence Water

RFP Title: Accelerated Lead Service Line Replacement Program-Contract 1.4 (Exp. 12-13-2025)

Opening Date: 07/01/2024

Addendum #: 7

Issue Date: 06/25/2024

The purpose of this addendum is:

Additional information



ADDENDUM NO. 7

TO: ALL CONTRACT DOCUMENT HOLDERS OF RECORD
ALL PROSPECTIVE BIDDERS

FROM: PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RHODE ISLAND 02907
PHONE: (401) 521-6300

DATE ISSUED: TUESDAY, JUNE 25, 2024

RE: ACCELERATED LEAD SERVICE LINE REPLACEMENT PROGRAM –
CONTRACT 1.4
CONTRACT NO. 20234

BID OPENING DATE: MONDAY, JULY 1, 2024 AT 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

LAST WRITTEN QUESTIONS DUE: FRIDAY, JUNE 21, 2024

This Addendum No. 7, 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:

ATTACHMENTS

The following attachments are included with this Addendum:

1. Specification 00 41 00 Bid Form Pages 2-6
2. Specification 01025 Measurement and Payment

SPECIFICATIONS

1. **SPECIFICATION 00 41 00 – BID FORM PAGE 2-6:** **REPLACE** Pages 2 through 6 with the attached Section 00 41 00 Bid Form Pages 2 through 6.
2. **SPECIFICATION 01010 – SUMMARY OF WORK:**
 - a. **DELETE** “No partial replacements are allowed.” in Paragraph 1.01.B and **REPLACE** with “Partial replacements are allowed after contractor outreach is complete and approved by the Owner. The Owner must approve the partial replacement before the replacement begins.”
 - b. **DELETE** “Bid Items 1A or 1B” in the last sentence of Paragraph 1.02.C.1.v and **REPLACE** with “Bid Items 1A.1, 1A.2, or 1B”.
3. **SPECIFICATION 01025 – MEASUREMENT AND PAYMENT:** **REPLACE** Section 01025 in its entirety with Attachment 2.
4. **SPECIFICATION 01170 – SPECIAL PROVISIONS:**
 - a. **ADD** “The Owner reserves the right to revoke Contractor ID badges at any time for any reason.” after the second sentence in Paragraph 1.04.D.
 - b. **DELETE** “1A” in the second to last sentence in Paragraph 1.06B and **REPLACE** with “1A.1 and 1A.2”.
 - c. **DELETE** “third” in the fourth to last sentence of Paragraph 1.18.B.2 and **REPLACE** with “fourth”.
 - d. **DELETE** “no work shall take place.” in the second to last sentence of Paragraph 1.18.B.2 and **REPLACE** with “coordinate with the Owner and Engineer if a partial replacement of the public side shall occur.”
 - e. **ADD** the following new paragraph after 1.18.B.2.d:

- “e. Owner can continue to attempt to get Property Owners to sign ROEs beyond the Contractor’s required attempts up to 3 months before the Contract Complete Date, or prior to final paving restoration on that street, whichever comes first.”
- f. **DELETE** “1A,” in the second sentence of Paragraph 1.18.F.3 and **REPLACE** with “1A.1”.
- g. **DELETE** the last sentence of Paragraph 1.18.F.3 and **REPLACE** with “If an ROE is not obtained, coordinate with the Owner and Engineer if a partial public side replacement shall occur. Contractor shall be paid for a partial public side replacement under Bid Item 1A.2.”.
- h. **DELETE** the last sentence of Paragraph 1.18.F.4 and replace with “If no replacement or no test pit occurs at the location, the Contractor will not be compensated for any work at this address.”
- i. **ADD** to the end of the last sentence of Paragraph 1.18.F.5 “or a partial replacement if approved by the Owner.”
5. **SPECIFICATION 01410 – TESTING AND LABORATORY SERVICES:** **DELETE** “Bid Item No. 1A or 1B” in the second sentence of Paragraph 1.01.B and **REPLACE** with “Bid Item Nos. 1A.1, 1A.2, or 1B”.
6. **SPECIFICATION 01720 – PROJECT RECORD DOCUMENTS:** **DELETE** “two (2) iPads” in the first sentence of Paragraph 2.01.B and **REPLACE** with “four (4) iPads”.
7. **SPECIFICATION 02221 – TRENCHING, BACKFILLING, AND COMPACTION:**
- a. **DELETE** “Bid Items 1A and 1B” in the second sentence of Paragraph 1.01.B.5 and **REPLACE** with “Bid Items 1A.1, 1A.2, and 1B”.
- b. **DELETE** “Bid Item Nos. 1A and 1B” in Paragraph 1.01.D and **REPLACE** with “Bid Items 1A.1, 1A.2, and 1B”.
8. **SPECIFICATION 02576 – PAVEMENT REPAIR AND RESURFACING:** **DELETE** “Bid Items 1A and 1B” in Paragraph 3.01.B.3 and **REPLACE** with “Bid Items 1A.1, 1A.2, and 1B”.
9. **SPECIFICATION 02663 – WATER SERVICE CONNECTIONS:**
- a. **ADD** “,for full, public side only, and private side only replacements,” after “The couplings” in the first sentence of Paragraph 2.02.C.

- b. **ADD** new Paragraph 2.02.D as follows:

“D. Couplings for partial replacements, or when the final service line will have two different pipe materials (i.e. copper and lead), shall be plastic Harco (or approved other) dielectric couplings. Plastic dielectric couplings shall be NSF61 approved for potable water and be rated for 200psi.”

- c. **DELETE** Paragraph 3.01.B and **REPLACE** with “B. If any portion of the service line is lead, it shall be replaced as a whole at the same time, unless a partial replacement is approved by the Owner after all required outreach attempts are made by the Contractor and any additional attempts the Owner chooses to perform.””

- d. **ADD** “or if a partial lead service line is conducted,” after “If an exterior faucet is not available or is inoperable, and a final flush cannot be performed,” in the second to last sentence of Paragraph 3.03.A.3.

- e. **DELETE** Paragraph 3.03.C.1 in its entirety and **REPLACE** with the following paragraph:

“1. If a partial replacement is completed or any part of a lead or galvanized pipe remains after removing or cutting into any part of a service line, perform a thirty (30) minute flush of the service line by installing a jumper before the water meter, or other methods approved by the Engineer. If access is not available in the house, place a “red” door hanger notice, as provided by the Owner, at the building. This notice will advise the residents the importance of flushing their internal plumbing.”

-END OF ADDENDUM NO. 7-

ATTACHMENT 1

**PROVIDENCE WATER
ACCELERATED LEAD SERVICE LINE REPLACEMENT PROGRAM - CONTRACT 1.4
PROJECT NO. 20234**

BID FORM

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY</u>	<u>BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS</u>	<u>UNIT BID PRICE IN FIGURES</u>	<u>AMOUNT IN FIGURES</u>
1A.1	15 each	Lead Service Line Replacement - Public Side Only (Water Main to Curb Stop) <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1A.2	40 each	Lead Service Line Replacement - Public Side Partial (Water Main to Curb Stop) <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1B	383 each	Lead Service Line Replacement - Public Side Portion of a Full Replacement (Water Main to Curb Stop) <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1C	120 each	Test Pit at Curb Stop <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1D.1	420 each	New Curb Box <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1D.2	30 each	New Curb Stop Valve <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1E	197 each	Long Side Replacement <hr/> each	<hr/> \$ <hr/>	<hr/> \$ <hr/>
1F	900 CY	Lead Service Line Excavation Greater Than Five (5) Feet <hr/> per cubic yard	<hr/> \$ <hr/>	<hr/> \$ <hr/>

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BID FORM

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY</u>	<u>BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS</u>	<u>UNIT BID PRICE IN FIGURES</u>	<u>AMOUNT IN FIGURES</u>
1G	300 SY	Final Trench Pavement Restoration (Infra-red) <hr/> per square yard	<hr/> \$	<hr/> \$
1H	600 SY	Final Trench Pavement Restoration (Milling and Paving) <hr/> per square yard	<hr/> \$	<hr/> \$
1I	50,000 SY	Final Pavement (Curb-to-curb) <hr/> per square yard	<hr/> \$	<hr/> \$
1J	\$ 220,000.00 ALLOWANCE	Uniformed Police Traffic Control <hr/> Two hundred and twenty thousand and zero cents allowance	<hr/> \$ 220,000.00	<hr/> \$ 220,000.00
1K	\$ 110,000.00 ALLOWANCE	Flaggers for Traffic Control <hr/> One hundred and ten thousand dollars and zero cents allowance	<hr/> \$ 110,000.00	<hr/> \$ 110,000.00
1L	\$ 40,000.00 ALLOWANCE	Utility Provisions <hr/> Foty thousand dollars and zero cents allowance	<hr/> \$ 40,000.00	<hr/> \$ 40,000.00
2A	581 each	Lead Service Line Replacement - Private Side Only (Curb Stop to Meter) - <hr/> each	<hr/> \$	<hr/> \$
2B	356 each	Lead Service Line Replacement - Private Side Portion of a Full Replacement (Curb Stop to Meter) - <hr/> each	<hr/> \$	<hr/> \$

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<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY</u>	<u>BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS</u>	<u>UNIT BID PRICE IN FIGURES</u>	<u>AMOUNT IN FIGURES</u>
2C	120 each	Access Not Provided <hr/> each	\$ <hr/>	\$ <hr/>
2D	140 each	Reduced Pressure Zone (RPZ) Backflow Preventer <hr/> each	\$ <hr/>	\$ <hr/>
3A	21 each	Lead Service Line Replacement - Commercial - Private Side Only (Curb Stop to Meter) <hr/> each	\$ <hr/>	\$ <hr/>
3B	30 each	Lead Service Line Replacement - Commercial - Private Side Portion of a Full Replacement (Curb Stop to Meter) <hr/> each	\$ <hr/>	\$ <hr/>
4	3,600 each	Pitcher Filters and Replacement Cartridges <hr/> each	\$ <hr/>	\$ <hr/>

TOTAL BASE BID PRICE IN WORDS (Items 1A.1-4) _____

TOTAL BASE BID PRICE IN FIGURES (Items 1A.1-4) _____

*Transfer Total Base Bid plus Supplemental in words and figures to Section 001000 Bid Form 1 Bidders Blank (Page 7 of 30) under "Total Amount in Writing and Total Amount in Figures."

**PROVIDENCE WATER
ACCELERATED LEAD SERVICE LINE REPLACEMENT PROGRAM - CONTRACT 1.4
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BID FORM

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
S-1A	850 CY	Imported Common Fill _____	\$ _____	\$ _____
		per cubic yard		
S-1B	120 CY	Crushed Stone _____	\$ _____	\$ _____
		per cubic yard		
S-1C	20 CY	Flowable Fill _____	\$ _____	\$ _____
		per cubic yard		
S-2	105 CY	Miscellaneous Concrete _____	\$ _____	\$ _____
		per cubic yard		
S-3	\$ 500,000.00 ALLOWANCE	Miscellaneous Work at Direction of the Owner _____	\$ 500,000.00	\$ 500,000.00
		Five hundred thousand dollars and zero cents allowance		
TOTAL SUPPLEMENTAL PRICE IN WORDS (S-1A through S-3)			_____	_____
TOTAL SUPPLEMENTAL PRICE IN FIGURES (S-1A through S-3)			_____	_____

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BID FORM

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY</u>	<u>BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS</u>	<u>UNIT BID PRICE IN FIGURES</u>	<u>AMOUNT IN FIGURES</u>
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TOTAL BASE BID PRICE PLUS SUPPLEMENTAL PRICE IN WORDS _____

TOTAL BASE BID PRICE PLUS SUPPLEMENTAL PRICE IN FIGURES _____

*Transfer Total Base Bid plus Supplemental in words and figures to Section 001000
Bid Form 1 Bidders Blank (Page 7 of 30) under "Total Amount in Writing and Total
Amount in Figures."

ATTACHMENT 2

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE

- A. This Section includes specifications for the measurement and payment of the various elements of the Work, with provisions applicable to lump sum prices, unit prices, and allowances, if applicable.
- B. In the case of conflict between this Section and the measurement methods specified in the individual technical Sections, the measurement methods in the technical specifications shall govern.
- C. The Contractor shall receive no payment for any portion of the work until it is installed and accepted by the Engineer. The only exception to this is payment for stored materials on-site if the Contract provides for the payment of stored materials. A partial payment may be requested for items partially installed.

1.02 RELATED WORK

- A. Bid Form is included in Section 00 41 00.
- B. General Conditions are included in Section 00 72 00.
- C. Applications for Payment are included in Section 01026.
- D. Schedule of Values is included in Section 01370.

1.03 LUMP SUM ITEMS

- A. Lump Sum measurement will be for the entire item, unit of work, structure, or combination thereof, as specified and as indicated in the Bid Form. Measurement and payment for all bid items indicated as Lump Sums shall include the cost of all labor, materials, and equipment necessary to furnish, install, clean, test, and place each bid item into operation, including general conditions, overhead and profit.
- B. Progress payments will be based on the Schedule of Values prepared by the Contractor and approved by the Engineer and Owner before acceptance of the first Application for Payment.
- C. In order for the Contractor to request progress payments against Lump Sum items, Contractor shall provide a disaggregation or breakdown in sufficient measurable detail that is acceptable to the Engineer.
- D. Measurement
 - 1. Measurement shall be based on the estimated percent complete of each item of the Schedule of Values, as determined by the Engineer.

E. Payment

1. Payment will be made at the lump sum price proportional to the completion percentages approved by the Engineer.
2. Contactor must track and maintain copies of all necessary permits submitted. Retainage as specified in Section 00 73 00 will be held until all permits are approved, paid for and received by Engineer and Owner.

1.04 UNIT PRICE ITEMS

- A. Quantity and measurement estimates stated in the Bid Form are estimates for bidding purposes only. Actual payments shall be based on actual quantities installed, in-place, as measured and/or verified by the Engineer.
- B. Unless otherwise provided in the General Conditions, the bid unit prices shall be in effect throughout the contract duration, regardless of variances between the estimated quantities and the actual quantities.
- C. The Contractor shall make no claim, nor receive any compensation, for anticipated profits, loss of profit, damages, or any extra payment due to any difference between the amounts of work completed, or materials or equipment furnished, and the estimated quantities.
- D. Assist Engineer by providing necessary equipment, workers, and survey personnel as required to measure quantities.
- E. Measurement
 1. Measurement for progress payment shall be made by, or approved by, the Engineer based on the estimated effective quantity installed. The effective quantity installed represents the actual units or quantities installed, adjusted for incomplete elements or components.
 2. Unless otherwise provided for in the Bid Form, unit price items are all-inclusive of all related work, direct and indirect, to provide a complete and functional item.
 3. The final measurement shall be based on actual quantities, jointly measured by Contractor and Engineer, complete, fully, tested and placed into service.
- F. Payment
 1. Progress payments shall be in accordance with the contract documents based on estimated effective quantities installed, paid at the bid unit price.
 2. The final payment shall be based on actual quantities, fully installed, tested, and placed into service, paid at the bid unit price.

1.05 ALLOWANCES

- A. Allowances, if any, specified in the Contract Documents and indicated in the Bid Form are considered provisional amounts to be used only as needed.
- B. Allowances are exclusive of work indicated in the Contract Documents for which payment is included under other items in the Bid Form. No work may be performed under an allowance without the prior written approval of the Owner.
- C. Any unused balance of the allowances shall revert to the Owner upon completion of the project. Prior to final payment, the original amount provided for allowances shall be adjusted to actual costs by deductive Change Order, adjusting the contract price, accordingly.
- D. The Contractor shall make no claim, nor receive any compensation, for anticipated profits, loss of profit, damages, or any extra payment due to any unexpended portion of the allowances.
- E. Include time for allowance work in the construction schedule. No adjustment of Contract Time will be allowed for any work performed under allowance items.
- F. Allowance items shall be included in the Schedule of Values.
- G. Unless otherwise indicated in the specific measurement and payment provisions under allowance items, the measurable and allowable costs for work performed under an Allowance item shall be limited to the actual, demonstrable, and direct costs associated with that Allowance item. Shipping and sales taxes (if applicable) are allowable costs.
 - 1. No markup for overhead or profit (including cost for bonds) shall be included for payment under an Allowance item. Overhead and profit (including cost for bonds) shall be included in the contract base bid or allocated across other bid items.
 - 2. Work authorized by the Owner under an allowance may be performed as a lump sum (negotiated before the fact), unit prices (when applicable), or time and material. For work performed under time and material, submit detailed verification (break-down) of all costs, subject to the approval of the Engineer or Owner. Time and material records shall be submitted to the Engineer on a daily basis and in no case later than 48 hours after the work is performed.

1.06 DEFECT ASSESSMENT

- A. Replace defective Work, or portions of defective Work, not conforming to specified requirements.
- B. If in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct a remedy in accordance with the requirements of the General Conditions.

1.07 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:

1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from the transporting vehicle.
4. Products placed beyond the lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling, and disposing of rejected products.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.01 PUBLIC SIDE BID ITEMS (ITEMS 1A.1-1I)

A. General

1. Replacement Items
 - a. References to Item 1A throughout these specifications refers to both Bid Item 1A.1 and Bid Item 1A.2 unless otherwise stated.
 - b. Trenchless or other approved means of lead water service line replacement which may include replacement of the public side only service line (Item 1A.1), replacement of the public side of a partial replacement (Item 1A.2), replacement of the public side portion of a full replacement (Item 1B), and replacement of all necessary appurtenances. All replacements on the public side shall include mobilization, (sanitary facilities, insurance, temporary construction facilities, construction vehicle parking and storage, bonds, permit acquisition, permit fees, labor, project coordination, control of work, project signs, coordination with homeowner and inspectors, scheduling, notifications, printing, all data and record document management, and preparation of contract required submittals); removal and disposal of excess soil, spoil, rubble, lead pipes and construction debris, vegetation and similar items; stockpiling, sampling and testing, all labor, materials, new corporation stop, temporary roadway, temporary and permanent sidewalk and/or yard restoration, equipment required for erosion and sediment control, and protection of existing trees as approved by the Engineer; all work required for or incidental to the satisfactory completion of the Work.
 - c. Each property listed by the Owner in Appendix A, or the updated list in the database management system at the time of construction, is the target list for construction. Each property with a signed ROE agreement must have a replacement completed or, if no lead is found on either side, a test pit. Public side only replacements (Item 1A.1) do not require a signed ROE, however, private side material must be confirmed prior to scheduling the public side only replacement in the event the record on the private side is incorrect and is actually lead. If the Property Owner rejects participation in the

program or does not provide entry after the outreach described in Section 01170, Paragraph 1.18 is performed, Contractor shall perform a test pit to confirm both the public and private side materials.

- d. Public side of a partial replacement (Item 1A.2) is only to be performed once all outreach attempts in accordance with Section 01170, Paragraph 1.18 have been completed. Owner reserves the right to perform additional outreach to the Property Owner up to 3 months prior to the Contract Completion Date, or prior to final paving restoration occurring on that street, whichever is first, before a partial replacement is approved. All partial replacements shall be approved by the Owner in writing prior to the Contractor scheduling the work.
2. Test Pit at Curb Stop (Item 1C)
 - a. A test pit is defined as a planned service line replacement that is found not to be lead on either side or a property where the Owner or Engineer specifically directs the Contractor to perform a test pit.
 - b. If there is more than one service in the same excavation as a planned replacement, Contractor must notify the Owner of observed materials at all properties. Contractor must make every effort to inspect and photograph all properties within the excavation. Only test pits at locations in Appendix A (or added to the data management system) with signed ROE, or as directed by the Owner or Engineer, will be paid for under Item 1C.
 3. New Curb Box (Item 1D.1)
 - a. For when a new curb box is needed when replacing the private-side only service line (Items 2A and 3A) at a location where a public side replacement does not occur or at a test pit (Item 1C) location at the direction of the Engineer.
 4. New Curb Stop Valve (Item 1D.2)
 - a. For when a new curb stop valve is needed when replacing the private-side only service line (Items 2A and 3A) at a location where a public side replacement does not occur or at a test pit (Item 1C) location at the direction of the Engineer.
 5. Long-Side Replacement (Item 1E)
 - a. A long-side replacement is when the resident with the service line being replaced is on the opposite side of the street from the water main. The distance from the water main to the curb must be greater than half the roadway width for a replacement to be considered a long side replacement. Water mains with a centerline within 1-foot of the center of the road do not have long-side replacements on either side.
 6. Lead Service Line Excavation Greater Than 5 Feet (Item 1F)
 - a. Lead water service trenching to a depth of greater than 5-feet and non-hazardous waste disposal; shoring; dewatering; installation, backfill; compaction; including all

labor, materials, and equipment necessary. All excavation to a depth of 5-feet is included in the replacement bid items.

7. Final Trench Pavement Restoration (Infra-red) (Item 1G); Final Trench Pavement Restoration (Milling and Paving) (Item 1H); Final Pavement (Curb-to-curb) (Item 1I)
 - a. In general, final pavement restoration will be undertaken only on streets shown with an outer yellow circle on Appendix C where any construction work is performed within the roadways as a result of service line replacement or otherwise deemed necessary in the field. Final pavement on streets shown in red will be required to be restored by either mill and pave (patch paving at trench locations), infra-red, or curb to curb (full width paving) methods, based on the paving requirements of the Department of Public Works or RIDOT permit issued. Streets shown in Appendix C without the outer yellow circle do not require roadway restoration due to being private-side only replacement. Pavement replacement necessary resulting from the activities of the Contractor outside of the limits defined in the Details in Appendix B shall be paid for by Contractor. Payment of restoration does not relieve the contractor of responding to complaints by Customers and returning, for the period of the 5-year warranty, to make necessary repairs.
 - b. Owner will make every effort to ensure the proposed quantities for pavement restoration will be provided to the Contractor. However, if the final restoration area is less than the bid quantity, Contractor shall have no claim to modify the price of the unit price item.
 - c. Final Pavement (Curb-to-curb, full width paving of a block or street) will be used at the direction of the Engineer when initial paving areas encompass a majority of the pavement surface and as required by the Owner or Department of Public Works and as defined by the Rhode Island Department of Transportation Minimum Standards for State and Municipal Road Repair for Utility Work.
 - d. Only one of the paving items (Items 1G-1I) will be applied per public side lead service line address.

B. Measurement

1. **(Item 1A.1) Lead Service Line Replacement – Public Side Only** - Measurement will be based on the number of installations completed from the water main to the curb stop within the Work Area and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including all permits, for each property. When only a public side only replacement (i.e., from water main to curb stop) is completed at a property, the Contractor shall be paid under Item 1A.1. Replacement includes all road opening and street closure permit acquisition and fees, piping, curb stop valve and box, new corporation stop, appurtenances to make all connections, procurement and placement of warning tape, flushing at the meter, leak testing, equipment required for erosion and sediment control, protection of existing trees, and temporary paving, temporary and permanent sidewalk and/or yard restoration. Full Replacements will not be paid for under this item.
2. **(Item 1A.2) Lead Service Line Replacement – Public Side Partial (Water Main to Curb Stop)** – Measurement will be based on the number of installations completed from

the water main to the curb stop within the Work area and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including all permits, for each property. When a public side partial replacement [i.e., from water main to curb stop; private side (curb stop to meter) remains lead] is completed at a property, the Contractor shall be paid under Item 1A.2. Replacement includes all Property Owner outreach and tracking attempts, road opening and street closure permit acquisition and fees, piping, curb stop valve and box, new corporation stop, appurtenances to make all connections, dielectric couplings, procurement and placement of warning tape, flushing inside the house, leak testing, equipment required for erosion and sediment control, protection of existing trees, and temporary paving, temporary and permanent sidewalk and/or yard restoration.

3. **(Item 1B) Lead Service Line Replacement – Public Side Portion of a Full Replacement** - Measurement will be based on the number of installations completed from the water main to the curb stop within the Work Area, only where the private side of the service line is also being replaced (full replacement) and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including all permits, for each property. Replacement includes all road opening and street closure permit acquisition and fees, piping, curb stop valve and box, procurement and placement of warning tape, flushing at the hose bib, leak testing, equipment required for erosion and sediment control, protection of existing trees, temporary paving, temporary and permanent sidewalk and/or yard restoration, and appurtenances to make all connections. Full Replacements performed under this contract within the Work Area will be paid for as the sum of Item 1B and Item 2B.
4. **(Item 1C) Test Pit at Curb Stop** - Measurement will be based on the number of locations in Appendix A (or most updated list as provided during construction in the database management system), and those properties that the Owner or Contractor has acquired a Right-of-Entry and Release Form for, where pipe material in the test pit was found not to be lead on both the private side and the public side or where directed by the Owner or Engineer and all material information is documented by Contractor. Submit comparable pre-construction and post-construction photographs of each test pit, and Owner and Engineer shall accept the surface restoration of the test pit prior to payment. Temporary and permanent sidewalk and/or yard restoration shall be included in this item.
5. **(Item 1D.1) New Curb Box – Private Side Only** - Measurement will be based on the number of curb boxes replaced for private-side only replacements (Items 2A and 3A) at locations where a public side replacement does not occur and curb boxes replaced during a test pit at a location at the direction of the Engineer (Item 1C). Curb box replacements are already included in Items 1A.1, 1A.2, and 1B for public side replacements.
6. **(Item 1D.2) New Curb Stop Valve– Private Side Only** – Measurement will be based on the number of curb stop valves replaced for private-side only replacements (Items 2A and 3A) at locations where a public side replacement does not occur and curb stop valves replaced during a test pit at a location at the direction of the Engineer (Item 1C). Curb stop valve replacements are already included in Items 1A.1, 1A.2, and 1B for public side replacements.

7. **(Item 1E) Long-Side Replacement** - Measurement will be based on the number of long-side replacements. This Item will be paid in addition to either Bid Item 1A.1, Bid Item 1A.2, or Bid Item 1B to cover the cost of the additional time and material for the additional length of service line required to be replaced.
8. **(Item 1F) Lead Service Line Excavation Greater Than 5 Feet** - Measurement will be based on the actual depth of excavation beyond a 5-foot depth, as approved by the Engineer, for a maximum trench width as shown in Details, if and when directed. If the trench bottom is more than twelve inches below pipe invert through an error by the Contractor or if improper drainage softens the subgrade and additional excavation in the trench or access pit is required before laying the pipe or installing the water service line, such removal and replacement of material will not be paid for by Owner. Measurement by truck count will not be permitted.
6. **(Item 1G) Final Trench Pavement Restoration (Infra-Red)** - Measurement will be based on the square yard(s) installed on streets, as directed by the Engineer, and as measured by the Engineer, within the specified widths and completed between 45 and 90 days of placing the temporary paving. This item shall include milling and paving of the trench and infra-red sealing of the seams.
7. **(Item 1H) Final Trench Pavement Restoration (Milling and Paving)** - Final Pavement Restoration (Milling and Paving) - Measurement will be based on the square yard(s) of patch paving installed at each trench as measured by the Engineer, within the specified widths and completed between 45 and 90 days of placing the temporary paving.
8. **(Item 1I) Final Pavement (Curb-to-curb)** - Measurement will be based on square yard(s) of full width, curb-to-curb, entire block, or street paving installed as measured by the Engineer, if and when directed or required by the Road Opening Permit.

C. Payment

1. Full payment for **Item 1A.1 Lead Service Line Replacement – Public Side Only, Item 1A.2 Lead Service Line Replacement – Public Side Partial, and Item 1B Lead Service Line Replacement – Public Side Portion of a Full Replacement** shall be provided once the following components are completed:
 - a. **Administration:** Price and payment shall include, but not be limited to Property Owner outreach attempts to sign the ROE and tracking of attempts, customer coordination, printing and distributing door hangers for notifications of appointments and disturbances, procurement and posting of no parking signs, local agency coordination for permits, permit fees, inspections and scheduling, pipe material validation through interior inspection, underground utility mark outs and coordination, pre-construction photographs, and all other preliminary documentation as required by the Contract.
 - b. **Site Preparation:** Price and payment shall include, but not be limited to temporary traffic control including traffic signage; erosion and sediment control; mobilization (sanitary facilities, insurance, temporary construction facilities, construction vehicle

parking and storage, bonds, permit preparation and fees, state roadway inspector when working on state roadways, project coordination, control of work, project signs, scheduling, and preparation and submittal of contract required work plans); test pits that result in a replacement or test pits for the contractors' convenience; cutting existing pavement and concrete; temporarily support and protection of all existing utilities and structures; all excavation up to depth of 5 feet (including hand, vacuum, rock and boulders and concrete road base excavation) including excavation for both trenchless installation and open-cut installation; excavation support and protection (as required); dewatering and drainage.

- c. ***Service Replacement:*** Price and payment shall include, but not be limited to: temporary water for customer (as required); furnishing and installation of water service line (up to and including 2-inches in size) to limits defined in individual bid items by trenchless methods or by open-cut methods when approved by the Engineer, including pipe, new corporation stop, curb stop valve and box, all the necessary adapters, couplings, reducers, fittings and appurtenances of the necessary size required to connect to existing piping; flushing as specified, testing of the new service line, placing the service line into service; existing lead water service line and appurtenances removal, disposal, demolition or abandonment; placement of warning tape; backfill materials shown in Appendix B; compaction and compaction testing; stockpiling, sampling and laboratory testing of excess excavated material including, but not limited to, spoil, rubble, concrete, asphalt, vegetation, etc. Payment for these items shall include all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
- d. ***Restoration on Public Side:*** Price and payment shall include, but not be limited to, temporary traffic control; GPS coordinates of the corporation stop, curb stop, and where the service line enters the house (for full service), service application records, closeout documentation including photographs; restoring exterior physical features; printing and distribution of post-replacement door hangers regarding flushing; temporary paving restoration; temporary and permanent sidewalk and/or yard restoration; restoring the trench surface to grade or the limits of roadway base course; forming and pouring concrete curbs to match sidewalk elevation, concrete testing and all other testing required to complete the project as specified herein; transportation and disposal of excess excavated material, spoil, rubble, concrete, asphalt, vegetation, lead pipes and construction debris, etc. in accordance with all Federal, State and local regulations; including all labor, materials and necessary equipment; removal of erosion and sediment control devices; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
- e. All items, including restoration, must be fully completed prior to requesting payment in full for Bid Items 1A.1, 1A.2, and 1B. A payment of 50% can be requested if a service line is installed but the restoration is not yet complete.
- f. When a private side only replacement (i.e., from curb stop to meter) is completed at a property, the Contractor shall be paid under Bid Items 2A or 3A.

2. Payment for **Item 1C - Test Pit at Curb Stop**, shall be made as follows: Payment for this Item shall be provided for the Contractor completing 3.01-C.1a Administration, 3.01-C.1b Site Preparation, performing the test pit, and 3.01-C.1d. Test pit shall assume excavation is in concrete and temporary and permanent sidewalk restoration is included in this bid item. Payment for Item 1C will only be made if the entire water service line (corporation stop to meter) is found not to be lead. No payment will be made under this Item if any pipe replacement is performed. If the curb box is replaced without a portion of the service line being replaced, payment will be made under Item 1C plus Item 1D.1 for the curb box. Contractor will not receive payment for Item 1D.1 if the curb box is damaged during excavation.
3. Payment for **Item 1D.1 New Curb Box** shall be made in full for all private side only replacements (Items 2A and 3A) when a public side replacement does not occur at the same location and the curb box is replaced. Payment shall also be made in full if a curb box is replaced during a test pit when the curb box is considered in need of replacement by the Engineer.
4. Payment for **Item 1D.2 New Curb Stop Valve** shall be made in full for all private side only replacements (Items 2A and 3A) when a public side replacement does not occur at the same location and the curb stop valve is replaced. Payment shall also be made in full if a curb stop valve is replaced during a test pit when the curb stop valve is considered in need of replacement by the Engineer.
5. Payment for **Item 1E - Long Side Replacement** shall be made as follows: When the Contractor performs a long-side replacement (i.e., when the resident with the service line being replaced is on the opposite side of the street from the water main it will be supplied from), Contractor will be paid for the service line replacement under the replacement bid items (1A.1, 1A.2, or 1B as applicable), however, an additional payment under this bid item will be made to cover the additional work associated with performing trenchless or open-cut installation across utilities in the roadway. This item shall include the additional excavation, backfill, temporary restoration, pipe and all other items associated with a long-side replacement that are not included in a short-side replacement. All items associated with administration, site preparation, service replacements and restoration shall be included in Item 1A.1, 1A.2, or 1B, as applicable with this item being an additional payment for long-side replacements.
6. Payment for **Item 1F - Lead Service Line Excavation Greater Than 5-Feet** shall be as follows: All work associated with excavation beyond 5-feet in depth shall be included under this bid item unless otherwise stated. Price and payment shall be full compensation for, but not limited to, protection of all existing utilities and structures; excavation (including hand excavation); loading; hauling; excavation support and protection; dewatering and drainage; temporarily support of utilities; backfilling with native soil; compaction, testing by technician from the Soils Testing Laboratory; removal of debris, spoils, pipe, tubing, rubble, vegetation, and similar items removed and legally disposed, including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form. Payment for excavation 5-feet or shallower is included in Items 1A.1, 1A.2, 1B, 2A, 2B, or 3A as applicable.

7. Payment for **Item 1G - Final Trench Pavement Restoration (Infra-Red)** shall be as follows: All work associated with final infra-red pavement, shall be included under this bid item unless otherwise stated. Price and payment shall be full compensation for, but not limited to: sweeping, cleaning and preparing the base course surface; traffic control, traffic signage; cutting back existing pavement, furnishing, hauling, heating, raking mixing and placing the final pavement, compacting, testing, pavement marking restoration, including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
8. Payment for **Item 1H - Final Trench Pavement Restoration (Milling and Paving)** shall be as follows: All work associated with final milling and paving, shall be included under this bid item unless otherwise stated. Price and payment shall be full compensation for, but not limited to: sweeping, cleaning and preparing the base course surface; traffic control, traffic signage; cutting back existing pavement, milling and disposal, installation of tack coat, furnishing, hauling, and placing the final pavement, compacting, testing, pavement marking restoration, including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
9. Payment for **Item 1I - Final Pavement (Curb to Curb)** shall be as follows - All work associated with final pavement restoration shall be included under this bid item unless otherwise stated. Price and payment shall be full compensation for, but not limited to: sweeping, cleaning and preparing the base course surface, traffic control, traffic signage;; milling and removing initial or existing pavement surface, installation of tack coat, furnishing, hauling and placing the final pavement, compacting, pavement marking restoration, including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.

3.02 UNIFORMED POLICE TRAFFIC CONTROL ALLOWANCE (ITEM 1J)

A. General

1. The Uniformed Police Traffic Control Allowance will apply only to the labor for traffic control Police officers provided by the City for the direction of traffic for this Contract per Manual on Uniform Traffic Control Devices.

B. Measurement

1. The Contractor will be reimbursed for costs for uniformed police traffic control officers for the project as invoiced by the City.

C. Payment

1. Payment for Uniformed Police Traffic Control officers provided by the City to direct traffic will be made based on the actual time on site and applicable City Ordinances. No markup will be allowed by the Contractor. The allowance price established in the Bid Form

is for bidding purposes only, and the amount paid for Traffic Control may differ from this amount.

- a. All other costs associated with uniformed police traffic control for this Contract, including traffic control devices, barriers, signage, flaggers, vehicles, equipment, personnel, and administrative costs, shall be paid under the respective replacement bid items and not under any allowance item.
- b. Additionally, any fees associated with permits required for road opening and street closure by the Rhode Island Department of Transportation and Municipalities shall be paid under the respective replacement bid item and not under any allowance item.

3.03 FLAGGER TRAFFIC CONTROL ALLOWANCE (ITEM 1K)

A. General

1. The Flagger Traffic Control Allowance will apply only to the labor for traffic control flaggers for the direction of traffic for this Contract per Manual on Uniform Traffic Control Devices. Flaggers can only be used when permitted by the agency with jurisdiction of the roadway or when uniformed police are not available, when provided with the required advanced notification.

B. Measurement

1. The Contractor will be reimbursed for costs for traffic control flaggers for the project as invoiced.

C. Payment

1. Payment for Traffic Control Flaggers to direct traffic will be made based on the actual time on site and applicable City Ordinances. No markup will be allowed by the Contractor. The allowance price established in the Bid Form is for bidding purposes only, and the amount paid for Flagger Traffic Control may differ from this amount.
 - a. All other costs associated with traffic control for this Contract, including traffic control devices, barriers, signage, flaggers, vehicles, equipment, personnel, and administrative costs, shall be paid separately, under the respective replacement bid items and not under any allowance item.
 - b. Additionally, any fees associated with permits required for road opening or street closures by the Rhode Island Department of Transportation and Municipalities shall be paid under the respective replacement bid item and not under any allowance item.

3.04 UTILITY PROVISION ALLOWANCE (ITEM 1L)

A. General

1. The Utility Provision Allowance will apply only to reimburse the Contractor for charges imposed by utilities to protect their existing infrastructure, such as utility poles and underground mains or ducts.

B. Measurement

1. The Contractor will be reimbursed for costs invoiced by the utility.

C. Payment

1. Payment for Utility Provisions required to protect existing infrastructure based on the actual time on site and requirements of the utilities. No markup will be allowed by the Contractor. The allowance price established in the Bid Form is for bidding purposes only, and the amount paid for Utility Provisions may differ from this amount.
 - a. All other costs associated with Utility Provisions for this Contract, including Contractor's vehicles, equipment, personnel, and administrative costs, shall be paid separately, under the respective replacement bid items and not under any allowance item.

3.05 PRIVATE SIDE BID ITEMS (ITEMS 2A-2D)

A. General

1. Replacement Items

- a. Trenchless or other approved means of lead water service line replacement which may include, replacement of the private side only service line (Item 2A), replacement of the private side portion of a full replacement (Item 2B), and replacing, furnishing and installing all required ball valves, adapters, reducers, fittings, flare adapters (before and after water meter), pressure reducing valves, backflow devices, expansion tanks, reduced pressure zone (RPZ) backflow preventers (if required), and appurtenances of the necessary size as required by Rhode Island Plumbing Code. Work includes testing for current and if water line is used for grounding, bypass with a temporary bonding jumper. All replacements, full or private side only, shall include mobilization (sanitary facilities, insurance, temporary construction facilities, construction vehicle parking and storage, drywall restoration, bonds, permit acquisition and fees, labor, project coordination, control of work, project signs, coordination with homeowner, property residents, tenants, and inspectors, scheduling, notifications, printing, all data and record document management, and preparation of contract required submittals); removal and disposal excess soil, spoil, rubble, lead pipes and construction debris, vegetation and similar items; stockpiling, sampling and testing; temporary and permanent sidewalk and/or yard restoration; pre and post construction photos, record documents all work required for or incidental to the satisfactory completion of the Work.
- b. Each property listed by the Owner in Appendix A, or the updated list in the database management system at the time of construction, is the target list for construction. Each

property with a signed ROE agreement must have a replacement completed or, if no lead is found on either side, a test pit. If the Property Owner rejects participation in the program or does not provide entry after the outreach described in Section 01170, Paragraph 1.18 is performed, Contractor shall perform a test pit to confirm both the public and private side materials.

B. Measurement

1. **(Item 2A) Lead Service Line Replacement – Private Side Only** - Measurement will be based on the number of installations completed from the curb stop to water meter within the Work Area and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including any required permits, for each property. When a private side only replacement (i.e., from curb stop to water meter) is completed at a property, the Contractor shall be paid under Item 2A. Replacement includes scheduling all service line replacement appointments with homeowner, residents, or tenants, plumbing permit acquisition and fees, piping, coring and patching through wall or floor, drywall restoration, ball valves, relocation of meter and all appurtenances as required by the Rhode Island Plumbing Code and to make all connections as listed in A above, installation of a temporary bonding jumper if water line is used for grounding, procurement and placement of warning tape, temporary and permanent sidewalk and/or yard restoration, flushing at the meter or hose bib, leak testing, equipment required for erosion and sediment control, and protection of existing trees. New curb boxes for private side only replacements will be paid under Item 1D.1 as directed by the Engineer. Full Replacements will not be paid for under this item.
2. **(Item 2B) Lead Service Line Replacement – Private Side Portion of a Full Replacement** – Measurement will be based on the number of installations completed from the curb stop to water meter within the Work Area only where the public side installation is also being replaced (full replacement) and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including any required permits, for each property. Replacement includes scheduling all service line replacement appointments with homeowner, plumbing permit acquisition and fees, piping, coring and patching through wall or floor, drywall restoration, ball valves, relocation of meter and all appurtenances as required by the Rhode Island Plumbing Code and to make all connections as listed in A above, installation of a temporary bonding jumper if water line is used for grounding, procurement and placement of warning tape, temporary and permanent sidewalk and/or yard restoration, equipment required for erosion and sediment control and protection of existing trees, flushing at the meter or hose bib, and leak testing. Full Replacements performed under this contract within the Work Area will be paid for as the sum of Item 1B and Item 2B.
3. **(Item 2C) Access Not Provided** – Measurement will be based on the number of locations where one of the following occurs:
 - a. Customer misses a scheduled and documented appointment after the Contractor mobilized for the replacement and cannot reschedule for more than 72 hours.

- b. Customer was home but provided no reasonable work area to access the service line or water meter on the interior of the house after the Contractor mobilized for the replacement.
- c. Improper grounding or electrical work is identified by the Contractor after mobilizing for the replacement requiring the homeowner to hire an electrician to perform electrical work before the replacement can be completed by the Contractor.

All work claimed under this Item must be documented in writing by the Contractor.

- 4. **(Item 2D) Reduced Pressure Zone (RPZ) Backflow Preventer** – Measurement will be based on the number of locations where an RPZ backflow preventer is installed where required by Section 15410 Interior Service Piping and Appurtenances.

C. Payment

- 1. Payment for **Item 2A Lead Service Line Replacement – Private Side Only** and **Item 2B Lead Service Line Replacement – Private Side Portion of a Full Replacement** shall be provided once the following components are completed:
 - a. **Administration:** Price and payment shall include, but not be limited to Property Owner outreach attempts to sign the ROE and tracking of attempts, customer coordination, printing and distributing door hangers for notifications of appointments and disturbances, local agency coordination for permits, permit fees, inspections and scheduling, pipe material validation through interior inspection, pre-construction photographs, and all other preliminary documentation as required by the Contract.
 - b. **Site Preparation:** Price and payment shall include, but not be limited to temporary traffic control including traffic signage; erosion and sediment control; mobilization (sanitary facilities, insurance, temporary construction facilities, construction vehicle parking and storage, bonds, permit preparation and fees, state roadway inspector when working on state roadways, project coordination, control of work, project signs, scheduling, and preparation and submittal of contract required work plans); test pits that result in a replacement or test pits for the contractors' convenience; cutting existing asphalt and concrete; temporarily support and protection of all existing utilities and structures; all excavation up to depth of 5 feet (including hand, vacuum, rock and boulders and concrete road base excavation) including excavation for both trenchless installation and open-cut installation; excavation support and protection (as required); dewatering and drainage.
 - c. **Service Replacement:** Price and payment shall include, but not be limited to: temporary water for customer (as required); furnishing and installation of water service line (up to and including 2-inches in size) to limits defined in individual bid items by trenchless methods or by open-cut methods when approved by the Engineer, including pipe, all the necessary adapters, couplings, reducers, fittings and appurtenances of the necessary size required to connect to existing piping; coring through the existing foundation or wall regardless of thickness; relocation of the meter and installation of items required to meet the Rhode Island Plumbing Code and as shown in the details in Appendix B, filling the existing meter pit with concrete,

patching and waterproofing of the new and abandoned penetrations; flushing as specified, testing of the new service line, placing the service line into service; existing lead water service line and appurtenances removal, disposal, demolition or abandonment; placement of warning tape; backfill materials shown in Appendix B; compaction and compaction testing; stockpiling, sampling and laboratory testing of excess excavated material including, but not limited to, spoil, rubble, concrete, asphalt, vegetation, etc. Payment for these items shall include all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.

- d. **Restoration on Private Side:** Price and payment shall include, but not be limited to GPS coordinates of the curb stop and where the service line enters the house, service application records, closeout documentation including photographs; repairs and cleaning of interior work spaces; drywall restoration; printing and distribution of post-replacement door hangers regarding flushing; loaming and seeding; temporary and permanent sidewalk, asphalt and/or yard restoration; concrete testing and all other testing required to complete the project as specified herein; transportation and disposal of excess excavated material, spoil, rubble, concrete, asphalt, vegetation, lead pipes and construction debris, etc. in accordance with all Federal, State and local regulations; including all labor, materials and necessary equipment; removal of erosion and sediment control devices; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
 - e. All items, including restoration, must be fully completed prior to requesting payment in full for Bid Items 2A and 2B. A payment of 50% can be requested if a service line is installed but the restoration is not yet complete.
 - f. When a public side only replacement (i.e. from main to curb stop where private side is not lead) or public side partial replacement (i.e., from main to curb stop where private side remains lead) is completed at a property, the Contractor shall be paid under Item 1A.1 or Item 1A.2, respectively.
2. Payment for **Item 2C Access Not Provided** shall be full compensation for partial work described in Bid Items 2A and 2B, paragraph 1a (administration) and 1b (site preparation). Access shall be determined prior to any test pits or other excavation being performed for private side replacements. If any excavation occurs prior to access being determined, no additional payment for backfilling and restoration will be provided.
 3. Payment for **Item 2D Reduced Pressure Zone (RPZ) Backflow Preventer** shall be full compensation for all residential private side replacements when a RPZ backflow preventer is required by Section 15410 Interior Service Piping and Appurtenances. Assume RPZs required are 1-inch in size. Contractor will be paid the difference in material costs for any required larger RPZs under Item S-4 Miscellaneous Work at the Direction of the Owner. Contractor shall provide the invoices to indicate the price difference. No overhead or profit will be paid on the difference in price.

3.06 PRIVATE SIDE ITEMS – COMMERCIAL (ITEMS 3A-3B)

A. General

1. Replacement Items

- a. Commercial bid items are only for commercial-only properties. Mixed use properties with a residential component are paid for under the residential bid items. Trenchless or other approved means of lead water service line replacement which may include, replacement of the private side only service line at a commercial property (Item 3A), replacement of the private side portion of a full replacement at a commercial property (Item 3B), and replacing, furnishing and installing all required ball valves, adapters, reducers, fittings, flare adapters (before and after water meter), pressure reducing valves, backflow devices, expansion tanks, reduced pressure zone (RPZ) backflow preventers (if required), and appurtenances of the necessary size as required by Rhode Island Plumbing Code. Work includes testing for current and if water line is used for grounding, bypass with a temporary bonding jumper. All replacements, full or private side only, shall include mobilization (sanitary facilities, insurance, temporary construction facilities, construction vehicle parking and storage, drywall restoration, bonds, permit acquisition and fees, labor, project coordination, control of work, project signs, coordination with homeowner, property residents/owners, tenants, and inspectors, scheduling, notifications, printing, all data and record document management, and preparation of contract required submittals); removal and disposal excess soil, spoil, rubble, lead pipes and construction debris, vegetation and similar items; stockpiling, sampling and testing; temporary and permanent sidewalk and/or yard restoration; all work required for or incidental to the satisfactory completion of the Work.
- b. Each property listed by the Owner in Appendix A, or the updated list in the database management system during construction, is the target list for construction. Each property with a signed ROE agreement must have a replacement completed or, if no lead is found on either side, a test pit. If the Property Owner rejects participation in the program or does not provide entry after the outreach described in Section 01170, Paragraph 1.18 is performed, Contractor shall perform a test pit to confirm both the public and private side materials.

B. Measurement

1. Each property listed by the Owner in Appendix A, or the updated list the database management system at the time of construction, is the target list for construction. Each property with a signed ROE agreement must have a replacement completed or, if no lead is found on either side, a test pit. If the Property Owner rejects participation in the program or does not provide entry, no test pit shall be performed. Measurement
2. **(Item 3A) Lead Service Line Replacement – Commercial – Private Side Only -** Measurement will be based on the number of installations completed from the curb stop to water meter at a commercial property within the Work Area and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each

installation and complete record documents, including any required permits, for each property. When a private side only replacement (i.e., from curb stop to water meter) is completed at a commercial property, the Contractor shall be paid under Item 3A. Replacement includes scheduling all service line replacement appointments with homeowner, residents, property owners or tenants, plumbing permit acquisition and fees, piping, coring and patching through wall or floor, drywall restoration, ball valves, relocation of meter and all appurtenances as required by the Rhode Island Plumbing Code and to make all connections as listed in A above, installation of a temporary bonding jumper if water line is used for grounding, procurement and placement of warning tape, temporary and permanent sidewalk and/or yard restoration, flushing at the meter or hose bib, leak testing, equipment required for erosion and sediment control, and protection of existing trees. New curb boxes for commercial private side only replacements will be paid under Item 1D.1 as directed by the Engineer. No full replacements will be paid for under Item 3A. An RPZ is required at all commercial locations and shall be included in Bid Item 3A.

3. **(Item 3B) Lead Service Line Replacement – Commercial – Private Side Portion of a Full Replacement** - Measurement will be based on the number of installations completed from the curb stop to water meter at a commercial property within the Work Area only where the public side installation is also being replaced (full replacement) and shall be contingent on the submission of comparable pre-construction and post-construction photographs of each installation and complete record documents, including all required permits, for each property.
4. Replacement includes scheduling all service line replacement appointments with property owners, plumbing permit acquisition and fees, piping, coring and patching through wall or floor, drywall restoration, ball valves, relocation of meter and all appurtenances as required by the Rhode Island Plumbing Code and to make all connections as listed in A above, installation of a temporary bonding jumper if water line is used for grounding, procurement and placement of warning tape, temporary and permanent sidewalk and/or yard restoration, equipment required for erosion and sediment control and protection of existing trees, flushing at the meter or hose bib, and leak testing. Full Replacements performed under this contract within the Work Area will be paid for as the sum of Item 1B and Item 3B. An RPZ is required at all commercial locations and shall be included in Bid Item 3A.

C. Payment

1. Payment for **Item 3A Lead Service Line Replacement – Commercial – Private Side Only** and **Item 3B Lead Service Line Replacement – Commercial -- Private Side Portion of a Full** shall be provided once the following components are completed:
 - a. **Administration:** Price and payment shall include, but not be limited to customer coordination, printing and distributing door hangers for notifications of service disturbance, local agency coordination, any preparation, submittal, and fees associated with permitting, inspections and scheduling; pipe material validation through interior inspection or test pit; pre-construction photographs; and all other preliminary documentation as required by the Contract.

- b. **Site Preparation:** Price and payment shall include, but not be limited to temporary traffic control including traffic signage; erosion and sediment control; mobilization (sanitary facilities, insurance, temporary construction facilities, construction vehicle parking and storage, bonds, permit acquisition and fees, project coordination, control of work, project signs, scheduling, and preparation and submittal of contract required work plans); temporarily support and protection of all existing utilities and structures; all trench excavation up to depth of 5 feet (including hand, vacuum, rock and boulders and concrete road base excavation); excavation support and protection (as required); dewatering and drainage.
- c. **Service Replacement:** Price and payment shall include, but not be limited to: temporary water for customer (as required); furnishing and installation of water service line (up to and including 2-inches in size) to limits defined in individual bid items by trenchless methods or by open-cut methods when approved by the Engineer, including pipe, all the necessary adapters, reducers, fittings and appurtenances of the necessary size required to connect to existing piping; coring through the existing foundation or wall, relocation of the meter and installation of items required to meet the Rhode Island Plumbing Code and as shown in the details in Appendix B, filling the existing meter pit with concrete, flushing at the meter or hose bib, drywall restoration, patching and waterproofing of new and abandoned penetrations; flushing, testing of the new service line, placing the service line into service; existing lead water service line and appurtenances demolition or abandonment; backfill materials as shown in Appendix B; compaction; restoring the trench surface to grade or the limits of roadway base course; stockpiling, sampling and laboratory testing of excess excavated material including, but not limited to, soil, spoil, rubble, concrete, asphalt, vegetation, etc. Payment for these items shall include all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
- d. **Restoration on Private Side:** Price and payment shall include, but not be limited to GPS coordinates of the curb stop, and where the service line enters the house, service application records, closeout documentation including photographs; repairs and cleaning of interior work spaces; drywall restoration, patching and waterproofing of new and abandoned penetrations; loaming and seeding; temporary and permanent restoration of sidewalk, and all other testing required to complete the project as specified herein; transportation and disposal of excess excavated material, spoil, rubble, concrete, asphalt, vegetation, lead pipes and construction debris, etc. in accordance with all Federal, State and local regulations; including all labor, materials and necessary equipment; removal of erosion and sediment control; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
- e. All items, including restoration, must be fully completed prior to requesting payment in full for Bid Items 3A and 3B. A payment of 50% can be requested if a service line is installed but the restoration is not yet complete.
- f. When a public side only replacement (i.e. from main to curb stop) is completed at a commercial property, the Contractor shall be paid under Item 1A.1 or 1A.2.

3.07 PITCHER FILTERS AND REPLACEMENT CARTRIDGES (ITEM 4)

A. General

1. **Pitcher Filters and Replacement Cartridges** in accordance with Specification 02663 Paragraph 2.10 shall be provided to all locations with a lead service line replacement in accordance with the following:

Single-family home = 1 pitcher filter and filter cartridges(s).

Multi-family home = 1 pitcher filter and filter cartridge(s) per unit.

Commercial = 1 pitcher filter and filter cartridge(s).

If filter cartridge lifespan is less than a 6 month supply, provide additional filter cartridges for a minimum total 6 months of filter supply.

B. Measurement

1. **Pitcher Filters and Replacement Cartridges** – Measurement will be based on the number of pitcher filters (including 6 month supply of filter cartridges) delivered to each unit per the schedule in Paragraph 3.07.A.1 at the time of replacement, including tracking delivery in leadCAST with photographic documentation.

C. Payment

1. Payment for **Pitcher Filters and Replacement Cartridges** shall be made in full for pitcher filters with 6 months of filter cartridge capacity distributed. All work associated with ordering, storing, distributing, and tracking confirmation of distribution shall be included under this bid item.

3.08 FILL MATERIALS (ITEMS S-1A - S-1C)

A. General

1. **Imported Common Fill (Item S-1A)** - will be utilized for backfill of miscellaneous work at the direction of the Owner or Engineer. This item shall include handling, transportation placing of common fill where the native hazardous material or unsuitable material is being replaced by common fill.
2. **Crushed Stone (Item S-1B) and Flowable Fill (Item S-1C)** - will be installed on an as-needed basis for miscellaneous work at the direction of the Owner or Engineer throughout the course of the project.

B. Measurement

1. **(Item S-1A) Common Fill and (Item S-1B) Crushed Stone** - Measurement will be based on cubic yards installed as measured in place by the Engineer and as allowable per the

maximum trench payment width for trenches as indicated in the Contract Documents or the actual amount placed, whichever is less, if and when directed. Under no circumstances will measurement for payment under this item be made unless specifically approved by the Engineer to replace unsuitable soil.

2. **(Item S-1C) Flowable Fill** - Measurement will be based on cubic yards installed in place as measured by the Engineer, if and when directed. Under no circumstances will measurement for payment under this item be made unless specifically approved by the Engineer. If used in trenches, the payment limits shall not exceed the trench widths as indicated in the Contract Documents or the actual amount placed, whichever is less.

C. Payment

1. Payment for **Items (Item S-1A) Imported Common Fill** and **(Item S-1B) Crushed Stone** shall be as follows - Price and payment shall be full compensation for, but not limited to: purchasing, transporting, testing, washing, placement, compaction, loading, unloading, reloading; including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form. Backfill materials related to service line replacements shall be paid for under the respective replacement items.
2. Payment of **Item S-1C Flowable Fill** shall be as follows- Price and payment shall be full compensation for, but not limited to: purchasing, transporting, testing, pumping, placement, finishing, including all labor, materials and necessary equipment; all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.

3.09 MISCELLANEOUS CONCRETE (ITEM S-3)

A. General

1. **Miscellaneous Concrete** - The installation of miscellaneous concrete will be performed on an as-needed basis as directed by the Engineer throughout the course of the project. Miscellaneous concrete shall contain no wire or steel reinforcement. In general, the installation of miscellaneous concrete will be undertaken whenever any construction work is required as a result of service line replacement, curb stop installation, or otherwise deemed necessary in the field.

B. Measurement

1. **(Item S-3) Miscellaneous Concrete** - Measurement will be based on cubic yards installed as measured by the Engineer, if and when directed and as not included already in another bid item.

C. Payment

1. Payment for **Item S-3 Miscellaneous Concrete** shall be as follows - Price and payment shall be full compensation for, but not limited to: formwork, purchasing and transporting all concrete used for the Work; all labor, material (including expansion joints) and equipment required to properly place, prepare, finish and protect the concrete, concrete testing; and all other incidentals to the Work for which separate payment is not provided under other items in the Bid Form. Concrete shown on the Details in Appendix B or as listed in other bid items will not be paid for under this bid item.

3.10 MISCELLANEOUS WORK AT DIRECTION OF THE OWNER (ITEM S-4)

A. General

1. This item is intended to pay the Contractor for performing emergency repairs of water, sewer utilities and services for correction of any unforeseen conditions as discovered during the performance of the work as directed and approved by the Engineer or Owner. Utility repairs resulting from activities related to the Contractor's convenience or negligence will not be paid for under this item and will be paid for by the Contractor at no additional cost to the Owner.

B. Measurement

1. **(Item S-4) Miscellaneous Work at Direction of the Owner** - Measurement shall be based on the Contractor's time and material costs for performing emergency repairs of water and sewer utilities, as approved by Engineer. Contractor shall notify the Engineer's representative prior to proceeding with time and material work and shall provide time and material ticket to the Engineer's representative the day the work is performed. No time and material tickets will be accepted if not provided within 48 hours of work being performed.

C. Payment

1. Payment for **Item S-4 Miscellaneous Work at Direction of the Owner** will be made on the actual amount of work done approved and measured by the Engineer. Emergency repairs of water and sewer utilities shall include but not be limited labor, materials and equipment required for repair and replacement of water and sewer utilities and services utilizing the methods allowed herein and shall be full compensation for all work related to cutting existing pavement and excavation; excavation support and protection (as required); dewatering and drainage; repair of utility pipelines as directed by the Engineer; backfilling with native soil; compaction; restoring the trench surface to grade; restoring all physical features to grade including furnishing, installing, placing, compacting and sweeping; dense-graded base course, formwork, curing, concrete sidewalks, driveway aprons, concrete curb, initial paving, roadway concrete subbase, resetting or replacing of existing slate sidewalks and granite curbs, asphalt or concrete stamping, resetting or replacement of brick or rock pavers, pavement markings; painting, patching; cleaning, chlorinating; and all other incidentals to the satisfactory completion of this Item.
2. Services shall be based on the Contractor's time and material costs for performing the work as approved by Engineer.

3. Only work authorized in writing by the Engineer will be allowed to be reimbursed under this item.

END OF SECTION