



CITY OF PROVIDENCE, RHODE ISLAND

Department: Providence Water

RFP Title: Trinity Square Area Water Main Rehabilitation

Opening Date: 07/31/2023

Addendum #: 1

Issue Date: 06/30/2023

The purpose of this addendum is:

This Addendum No. 1, including all referenced attachments, modifies, amends, and supplements designated parts of the Contract Documents



ADDENDUM NO. 1

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: MONDAY, JUNE 26, 2023

RE: TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23

BID OPENING DATE: MONDAY, JULY 31, 2023 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, JULY 21, 2023

This Addendum No. 1, 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. BOCS Request for Proposals – Bid Terms – Page 5.
2. Specification Section 004100 – Bid Form.
3. Specification Section 01025 – Measurement and Payment.

SPECIFICATIONS

1. **BOCS REQUEST FOR PROPOSALS – BID TERMS:** **REPLACE** Page 5 (of 26) in its entirety with the attached BOCS RFP Bid Terms.
2. **SECTION 00 11 16, Page 1, INVITATION TO BID, MODIFY the 3rd Paragraph as follows:**
 - a. **Third line, DELETE** the words “12-inch, 16-inch, 20-inch, and 30-inch” and **REPLACE** with “and 12-inch”.
 - b. **Eighth line**, after the word “sidewalks”, **ADD** “,driveways, “.
 - c. **Fifteenth line, DELETE** the words “installation of wet taps for tapping sleeves and new corporation stops;” and **REPLACE** with “replacement of existing services;”.
3. **SECTION 004100 – BID FORM:** **INSERT** Section 004100 in its entirety with the attached revised Section 004100 – Bid Form.
4. **SECTION 01010 – SUMMARY OF WORK, Paragraph 1.02A, sixth line, REPLACE the word “pumping” with “piping”.**
5. **SECTION 01025 – MEASUREMENT AND PAYMENT:** **INSERT** Section 01025 in its entirety with the attached revised Section 01025 – Measurement and Payment (Price and Payment).
6. **SECTION 02221 – TRENCHING, BACKFILLING, AND COMPACTION:** On Page 02221 – 5, Article 3.06 Paragraph D, **DELETE** “92” and **REPLACE** with “95”.

DRAWINGS

1. **SHEET C-16:** **MODIFY** Lead CNU Removal Count in Note No. 3 from “24” to “25”.

WRITTEN QUESTIONS AND COMMENTS SUBMITTED

1. **QUESTION:** The bid bond amount is \$50,000.00?

TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
ADDENDUM NO. 1
JUNE 26, 2023
Page 3 of 3

RESPONSE: Refer to Attachment No. 1 for revised BOCS RFP Page 5 of this Addendum No. 1.

2. **QUESTION:** The bid form (Section 004100) is not in the bid specifications currently?

RESPONSE: Refer to Attachment No. 2 for Section 004100 – Bid Form of this Addendum No. 1.

-END OF ADDENDUM NO. 1-

ATTACHMENT 1



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 \$_____ must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder.
 - b) A bid bond in the amount of 5 per centum (%) of the proposed total price, 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. Any person signing a bid bond as an attorney-in-fact shall include with the bid bond an original, or a photocopy or facsimile of an original, power of attorney.
 - c) 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.
 - d) No financial assurance is necessary for this item.
2. Awards will be made within **sixty (60) 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.

ATTACHMENT 2



**BID FORM
TO
PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

This Bid is submitted to the City of Providence, Board of Contract and Supply, Department of the City Clerk, Room 311, Providence City Hall, 25 Dorrance Street, Providence, Rhode Island 02903.

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that all the Contract Documents dated June 2023 have been carefully examined; that the undersigned is fully informed in regard to all conditions pertaining to the Work and the places where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

If a Notice of Award accompanied by unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned after the actual date of the opening of the Bids, the undersigned, in accordance with the Standard General Conditions of the Construction Contract as amended and/or modified by the Supplementary Conditions, will execute and return all copies of the Agreement and all other applicable Contract Documents to Owner. The premiums for all Bonds and Insurance required shall be paid by Contractor and shall be included in the Contract Prices. The undersigned Bidder further agrees that the Bid Security accompanying this Bid shall become the property of Owner if the Bidder fails to execute the Agreement as stated above.

The undersigned hereby agrees to fully complete the Work within the times specified in the Contract Documents and in the Agreement.

The undersigned acknowledges receipt of addenda numbered:

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the Work in its entirety in the manner and under the conditions required at the prices listed as follows:

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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	500 LF	Furnish and Install 4-inch D.I. Water Main _____	\$ _____	\$ _____
		per linear foot		
1B	7,500 LF	Furnish and Install 6-inch D.I. Water Main _____	\$ _____	\$ _____
		per linear foot		
1C	1,400 LF	Furnish and Install 8-inch D.I. Water Main _____	\$ _____	\$ _____
		per linear foot		
1D	500 LF	Furnish and Install 10-inch D.I. Water Main _____	\$ _____	\$ _____
		per linear foot		
1E	1,100 LF	Furnish and Install 12-inch D.I. Water Main _____	\$ _____	\$ _____
		per linear foot		
2	60,000 LBS	Furnish and Install D.I. Pipe Fittings _____	\$ _____	\$ _____
		per pound		
3A	17 EA	Furnish and Install 4-inch Gate Valve _____	\$ _____	\$ _____
		each		
3B	191 EA	Furnish and Install 6-inch Gate Valve _____	\$ _____	\$ _____
		each		
Subtotal Page 00 41 00-2			\$ _____	\$ _____

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
3C	27 EA	Furnish and Install 8-inch Gate Valve each	\$	\$
3D	9 EA	Furnish and Install 10-inch Gate Valve each	\$	\$
3E	23 EA	Furnish and Install 12-inch Gate Valve each	\$	\$
4A	80 EA	Furnish and Install New Hydrant Assembly, 6" Branch each	\$	\$
4B	14 EA	Furnish and Install New Hydrant Assembly, 8" Branch each	\$	\$
4C	11 EA	Furnish and Install New Hydrant Assembly for Replacement of Existing on 16" and greater each	\$	\$
5A	40,000 LF	Cleaning and Lining Existing 6" C.I. Water Main (including the removal of existing 6" valves and appurtenances during the cleaning and lining process) per linear foot	\$	\$
Subtotal Page 00 41 00-3			\$	\$

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
5B	6,000 LF	Cleaning and Lining Existing 8" C.I. Water Main (including the removal of existing 8" valves and appurtenances during the cleaning and lining process)		
		_____	\$ _____	\$ _____
		per linear foot		
5C	1,300 LF	Cleaning and Lining Existing 10" C.I. Water Main (including the removal of existing 10" valves and appurtenances during the cleaning and lining process)		
		_____	\$ _____	\$ _____
		per linear foot		
5D	4,000 LF	Cleaning and Lining Existing 12" C.I. Water Main (including the removal of existing 12" valves and appurtenances during the cleaning and lining process)		
		_____	\$ _____	\$ _____
		per linear foot		
6A	1 EA	Reconnect Existing 3/4" Copper Water Service		
		_____	\$ _____	\$ _____
		each		
6B	4 EA	Reconnect Existing 1" Copper Water Service		
		_____	\$ _____	\$ _____
		each		
6C	1 EA	Reconnect Existing 2" HDPE Water Service		
		_____	\$ _____	\$ _____
		each		
Subtotal Page 00 41 00-4			\$ _____	\$ _____

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
6D	4 EA	Reconnect Existing 2" Copper Water Service each	\$	\$
6E	6 EA	Reconnect Existing 1" Water Service each	\$	\$
7A	60 LF	Furnish and Install 2" Copper Tubing for Water Service per linear foot	\$	\$
7B	3 EA	Furnish and Install 2" Corporation Stop, Service Saddle, Curb Stop, and Service Box each	\$	\$
8	2 EA	Furnish and Install 2" Blowoff Assembly each	\$	\$
9A	1 EA	5/8" Cast Iron CNU Service Removal each	\$	\$
9B	4 EA	2" Cast Iron CNU Service Removal each	\$	\$
10	335 EA	Lead CNU Service Removal each	\$	\$
Subtotal Page 00 41 00-5			\$	\$

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
11	Lump Sum	Temporary By-Pass Piping System (2- , 4-, and 6-inch)		
		_____	\$ _____	\$ _____
		Lump Sum		
12A	100 CY	Gravel Borrow		
		_____	\$ _____	\$ _____
		per cubic yard		
12B	100 CY	Common Fill		
		_____	\$ _____	\$ _____
		per cubic yard		
12C	100 CY	Crushed Stone		
		_____	\$ _____	\$ _____
		per cubic yard		
13	200 CY	Test Pits		
		_____	\$ _____	\$ _____
		per cubic yard		
14A	770 SY	Furnish and Place Temporary Bituminous Sidewalk - 2"		
		_____	\$ _____	\$ _____
		per square yard		
14B	4,700 SY	Furnish and Place Street Pavement - 4" Bituminous		
		_____	\$ _____	\$ _____
		per square yard		
Subtotal Page 00 41 00-6			\$ _____	\$ _____

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
14C	1,100 SY	Furnish and Place Street Pavement - 6" Bituminous		
		_____	\$ _____	\$ _____
		per square yard		
14D	200 SY	Furnish and Place Street Pavement - 9" Bituminous		
		_____	\$ _____	\$ _____
		per square yard		
15	1,100 SY	Furnish and Place 8" Concrete Base		
		_____	\$ _____	\$ _____
		per square yard		
16	117,000 SY	Mill and Overlay Bituminous Pavement Restoration (2" Depth) (Permanent)		
		_____	\$ _____	\$ _____
		per square yard		
17A	330 SY	Bituminous Sidewalk (Driveway) Restoration -		
		_____	\$ _____	\$ _____
		per square yard		
17B	770 SY	Concrete Sidewalk Restoration		
		_____	\$ _____	\$ _____
		per square yard		
17C	100 SY	Concrete Sidewalk and Driveway Restoration -		
		_____	\$ _____	\$ _____
		per square yard		
Subtotal Page 00 41 00-7			\$ _____	\$ _____

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
17D	100 SY	Concrete Wheelchair Ramps Restoration		
		_____	\$ _____	\$ _____
		per square yard		
18A	20 LF	Furnish and Install Granite Curbing (Vertical Face)		
		_____	\$ _____	\$ _____
		per linear foot		
18B	20 LF	Furnish and Install Precast Concrete Curbing (Vertical Face)		
		_____	\$ _____	\$ _____
		per linear foot		
18C	20 LF	Furnish and Install Bituminous Curbing (Vertical Face)		
		_____	\$ _____	\$ _____
		per linear foot		
18D	20 LF	Cast-in-Place Concrete Curbing		
		_____	\$ _____	\$ _____
		per linear foot		
18E	690 LF	Remove and Reset Existing Granite Curbing		
		_____	\$ _____	\$ _____
		per linear foot		
19	\$ 900,000.00 ALLOWANCE	Traffic Control - Flaggers		
		_____	\$ 900,000.00	\$ 900,000.00
		Nine hundred thousand dollars and zero cents allowance		
Subtotal Page 00 41 00-8			\$ _____	\$ _____

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23
REVISED PER ADDENDUM NO. 1
BID FORM
BASE BID**

<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>
20	\$ 900,000.00 ALLOWANCE	Traffic Control - Police Details Nine hundred thousand dollars and zero cents allowance	\$ 900,000.00	\$ 900,000.00
Subtotal Page 00 41 00-9			\$ _____	\$ _____
 TOTAL BASE BID PRICE (Items 1-18)				
Subtotal Page 00 41 00-2			\$ _____	\$ _____
Subtotal Page 00 41 00-3			\$ _____	\$ _____
Subtotal Page 00 41 00-4			\$ _____	\$ _____
Subtotal Page 00 41 00-5			\$ _____	\$ _____
Subtotal Page 00 41 00-6			\$ _____	\$ _____
Subtotal Page 00 41 00-7			\$ _____	\$ _____
Subtotal Page 00 41 00-8			\$ _____	\$ _____
Subtotal Page 00 41 00-9			\$ _____	\$ _____
 TOTAL BASE BID PRICE (Items 1-18)				
_____			\$ _____	_____
Total Base Bid Price WRITTEN (Items 1-18)			Total Base Bid Price (FIGURES)	

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

**BID FORM
SUPPLEMENTAL UNIT PRICES**

S-1A	Furnish and Install 1" Copper Tubing for Water Service		
	\$	\$	
	per linear foot (written)	per linear foot (figures)	
S-1B	Furnish and Install 1.5" Copper Tubing for Water Service		
	\$	\$	
	per linear foot (written)	per linear foot (figures)	
S-1C	Furnish and Install 1" Corporation Stop, Service Saddle, Curb Stop, and Service Box		
	\$	\$	
	each (written)	each (figures)	
S-1D	Furnish and Install 1.5" Corporation Stop, Service Saddle, Curb Stop, and Service Box		
	\$	\$	
	each (written)	each (figures)	
S-2	Obstructions (associated with the Cleaning and Lining Operations for the 6", 8", 10", and 12" water main above)		
	each (written)	per each (figures)	
S-3	Building Entry Refusal - "Dig Down" Bypass Connection at Curb Stop		
	Two thousand dollars and zero cents	\$2,000.00	
	each (written)	per each (figures)	
S-4A	Furnish and Install 6-inch Single Line Stop Device		
		\$	
	each (written)	per each (figures)	
S-4B	Furnish and Install 8-inch Single Line Stop Device		
		\$	
	each (written)	per each (figures)	

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

**BID FORM
SUPPLEMENTAL UNIT PRICES**

S-4C	Furnish and Install 10-inch Single Line Stop Device	\$
	each (written)	per each (figures)
S-4D	Furnish and Install 12-inch Single Line Stop Device	\$
	each (written)	per each (figures)
S-5A	Furnish and Install 6-inch Insertion Valve	\$
	each (written)	per each (figures)
S-5B	Furnish and Install 8-inch Insertion Valve	\$
	each (written)	per each (figures)
S-5C	Furnish and Install 10-inch Insertion Valve	\$
	each (written)	per each (figures)
S-5D	Furnish and Install 12-inch Insertion Valve	\$
	each (written)	per each (figures)
S-6A	Flowable Fill	\$
	per cubic yard (written)	per cubic yard (figures)
S-6B	Miscellaneous Concrete	\$
	per cubic yard (written)	per cubic yard (figures)

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

BID FORM
SUPPLEMENTAL UNIT PRICES

S-7	Trench Rock Excavation and Removal		
	Two hundred fifty dollars and zero cents	\$250.00	
	per cubic yard (written)		per cubic yard (figures)
S-8A	Brick/Paver Restoration		
		\$	
	per square yard		per square yard (figures)
S-8B	Cobblestone Restoration		
		\$	
	per square yard		per square yard (figures)
S-9	Infrared Bituminous Pavement Restoration		
		\$	
	per square yard		per square yard (figures)
S-10	Exploratory Video Inspection		
	Fifty Dollars and zero cents	\$50.00	
	per linear foot (written)		per linear foot (figures)

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

**LABOR RATES
for ADDITIONAL WORK not specified above**

Labor Rates per hour - Includes insurance, fringes, and overhead (Submission of Certified Payrolls required)

Use additional sheets if necessary

A	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
B	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
C	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
D	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
E	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
F	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour
G	Classification	\$	Standard Rate per hour
		\$	Overtime Rate per hour

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

EQUIPMENT RATES
for ADDITIONAL WORK not specified above
Use additional sheets if necessary

A	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
B	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
C	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
D	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
E	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
F	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
G	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
H	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
I	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
J	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour
K	<hr/>			\$	<hr/>
	Type	Make	Year		Rate per hour

**PROVIDENCE WATER
TRINITY SQUARE AREA WATER MAIN REHABILITATION
CONTRACT NO. 8-23**

**MATERIALS & SUBCONTRACTOR COST MARKUP
for ADDITIONAL WORK not specified above**

M-1 Materials Cost Markup Percentage
Contractor's Cost plus
(Submission of Original Invoices required)

Percentage (Written)

Percentage (Figures)

M-2 Subcontractor Cost Markup Percentage
Contractor's Cost plus
(Submission of Original Invoices required)

Percentage (Written)

Percentage (Figures)

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the Conditions of the Contract and will be paid for in accordance with Article 11 of the Conditions of the Contract.

The undersigned agrees to furnish Performance and Payment Bonds as specified with a surety company acceptable to the Owner.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

This project is subject to the Davis-Bacon Prevailing Wage Requirements, Federal Wage Rates, American Iron and Steel Requirements, Build America, Buy America (BABA) Requirements, EPA DBE Requirements, EPA Debarment and Suspension Requirements, EPA Prohibition on Certain Telecommunication and Video Surveillance Requirements, and Rhode Island MBE Utilization Requirements.

The undersigned acknowledges that (1) they have examined the Contract Documents thoroughly, including all the requirements specified in the Request For Proposals, Invitation to Bid and Instructions to Bidders; (2) they have had the opportunity to visit the site(s) to become familiar with local conditions that may in any manner affect cost, progress or performance of the Work; (3) they are familiar with all Federal, State and local laws, ordinances, rules and regulations that may in any manner affect cost, progress or performance of the Work; and (4) they have studied and carefully correlated Bidder's observations with the requirements of the Contract Documents.

The undersigned acknowledges that they have had the opportunity to make additional investigations and tests as they may deem necessary to determine their Bid for performance of the Work in accordance with the time, price and other terms and conditions of the Contract Documents.

The undersigned agrees that the submission of this Bid is an incontrovertible representation that the Bidder has complied with every requirement of this Article and these Contract Documents; that no additional examinations, investigations, explorations, studies, or tests are needed; that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work; and that the Bidder provided written notice of any conflict, error, ambiguity, and/or discrepancy in the Contract Documents and that Owner's written resolution by formal written Addenda is acceptable to the Bidder.

The undersigned acknowledges that they have submitted the following with this Bid and with their Bid Forms of this Section and further that it is their sole responsibility to confirm that they have submitted all required forms and/or information with their Bid whether or not it is listed herein (failure to submit all required information may result in rejection of a Bid):

1. Bid Form 1: Bidder's Blank as the cover/first page.
2. Bid Form 2: Certification of Bidder as the second page.
3. Bid Form 3: Certificate Regarding Public Records as the third page.
4. Bid Form 4: Affidavit of City Vendor as the fourth and fifth page.
5. Forms from the Minority and Women Business Enterprise Program.
6. Forms from the EPA DBE Program.
7. Completed Bid Forms from this Section with Bid prices for each item stated in words and figures; acknowledgement of receipt of all Addenda; signed and executed City of Providence, Rhode Island Board of Contract and Supply signature page; and with included evidence of Bidder's authority to do business in the State of Rhode Island and Bidder's Rhode Island contractor license number(s).
8. Bid Security in a separate envelope from the Bid and then attached to the envelope containing the Bid.
9. Completed forms from Section 00 43 36 – Proposed Subcontractors & Suppliers, with supporting documentation as required.
10. Completed forms from Section 00 45 13 – Bidder's Qualifications, with supporting documentation as required.

Bids will remain subject to acceptance for 60 days after the Bid opening, or for such longer time period that Bidder may agree to in writing upon request of the Owner.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. See Bid Form Article in the Instructions to Bidders.)

The undersigned hereby certifies that they are able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.

The undersigned hereby certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the word "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.



BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND

BID FROM:

Company Name: _____

(SEAL)

If incorporated, State of Incorporation: _____

Date of Incorporation: _____

Type of Business (from incorporation papers): _____

By: _____

(Signature - attach evidence of authority to sign if not an individual submitting Bid)

Name (typed or printed): _____

Title: _____

Date: _____

Business Address: _____

Phone No. _____ Fax No. _____

Bidder State of Rhode Island License Information:

License No.

Type of License/Trade Licensed

ATTACHMENT 3

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 supplemental unit prices, labor and equipment rates for miscellaneous work, 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, measured, and accepted by the Owner or Owner's Designee. The Contractor shall assist the Owner or Owner's Designee with making measurements. 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.

1.03 DUCTILE IRON WATER MAIN AND FITTINGS (ITEMS 1A THRU 2)

A. Measurement

- 1. Ductile iron water main replacement, parallel construction and abandonment of existing water main where indicated on the Drawings, or new installation by open trench of the size specified on the bid sheet (Items 1A thru 1E) will be measured in place on a linear foot basis. Measurement for payment does not signify that the water main is accepted.
- 2. Measurement for length will be along the horizontal centerline of the pipe, with no deductions for valves or fittings. Measurement will be to the nearest tenth of a foot.
- 3. Compact cast or ductile iron fittings (tees, bends, solid sleeves, couplings, crosses, reducers, adapters for restrained joint connections to new or existing tees for services, caps/plugs, etc.) installed in the completed project (Item 2), all sizes, shall be measured by the pound, excluding cement lining, based on tabulated weights obtained from the current ANSI Specifications. The weight of the fittings shall not include the weight of glands, bolts, nuts, gaskets, or accessories.

B. Payment

1. Payment for furnishing and installing ductile iron pipe of the class and size specified will be made for the respective quantities as above determined, at the applicable price per linear foot bid under Items 1A through 1E in the Bid Form. Such price and payment shall be full compensation for saw cutting and removing existing pavement and any subbase encountered; trench excavation (excluding rock and boulder excavation); removal and disposal, and abandonment (as specified on the Drawings) of existing water main and gate valves (including removal of abandoned mainline and service line valve boxes); silt fences and compost socks; sheeting and bracing; dewatering and drainage; overexcavation of the trench for unsuitable bedding material; disposal of excess excavated and unacceptable material; furnishing, laying and jointing the pipe including all specified restrained joints or thrust blocks, furnishing and installation insulation for pipe with less than 4'-6" of cover or as directed by the Owner or Owner's Designee; furnishing and installing all gravel backfill material including common fill and select common; furnishing and installing metalized detectable utility warning tape; backfilling; compaction; supporting of existing drains and utility lines in the trench; concrete encasement of water main, if necessary; plugging or capping of 4" or greater service pipe at the existing connection to the mainline segment replacement and removal of the valve boxes for all abandoned services including grassed surface restoration; restoring the trench surface to grade including gravel borrow for pavement subgrade excluding pavement; furnishing, storing and applying calcium chloride as required for dust control over trenches; restoring all physical features to original condition; cleaning, chlorinating and testing the pipe and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.
2. Payment for furnishing and installing fittings based on weights as herein specified will be made under Item 2. Payment shall not include weight of glands, bolts, nuts, gaskets, or accessories. Price and payment shall be full compensation for furnishing and installing the fitting with cement lining, glands, bolts, nuts, gaskets, jointing and all work required for, or incidental to, the satisfactory completion of the Item for which payment is not provided under other items in the Bid Form.

1.04 VALVES, BOXES, AND HYDRANTS (ITEMS 3A THRU 4B)

A. Measurement

1. Gate valves and boxes and hydrant assemblies (Items 3A thru 4C) shall be measured as the number of each at sizes actually installed in the completed project.

B. Payment

1. Payment for Items 3A thru 4B shall include furnishing and installing gate valves, with boxes and covers, and hydrant assemblies (including hydrants, mainline anchoring tee, isolation gate valve and box/cover, branch pipe, and branch pipe reducer). Payment for Item 4C shall include furnishing and installing hydrant assemblies to replace existing on mainline pipe greater than 12-inches (including hydrants, restrained joint adapter at existing mainline tee for isolation gate valve, isolation gate valve and box/cover, branch pipe to match existing, and branch pipe reducer if required).

2. Price and payment will be full compensation for cutting and removing existing pavement, excavation (excluding rock and boulder excavation), placing screened gravel where required and providing screened gravel drainage pocket, setting, jointing, tie rods, furnishing and installing restrained joints (including adapters to connect service isolation valves to mainline tees for restraint) and fittings and thrust blocks, backfilling (including pavement subgrade), cleaning, overexcavation of the pipe bed for unsuitable material and refill (if required), installation of mainline tee with anchoring gate valve or restrained joint adapter for existing tees, new branch pipe to match existing, fittings, chlorinating and testing of valves and hydrant branches, painting hydrants as specified and all work required for or incidental to the satisfactory completion of the Items for which separate payment is not provided under other items in the Bid Form.
3. Payment shall include removal, palletizing, delivery, and stacking of existing hydrants, valves, boxes and covers at the Providence Water Supply Board yard as indicated on the drawings and any additional assets identified by the Owner.

1.05 CLEANING AND LINING WATER MAINS AND FITTINGS (ITEMS 5A THROUGH 5D)

A. Measurement

1. The pipe of the size specified on the bid sheet (Item 5A through 5D) actually cleaned by the dragline method or by hand cleaning, lined with cement mortar in accordance with the specifications, and accepted by the Owner or Owner's Designee will be measured for payment in place on a linear foot basis along the horizontal centerline of the pipe.
2. Ductile iron pipe, custom couplings (to connect any existing pipe to new ductile iron pipe), and fittings (bends, solid sleeves, couplings, restraining harnesses, mechanical joint restraints etc.) required to provide additional access for cleaning and lining and inspection equipment not already identified on the Drawings, shall be considered incidental to the cleaning and lining of the water main and no separate measurement will be made.
3. Excavation, disposal of excavated materials and backfilling of trenches for pipe openings (including pavement subgrade), including work for cutting, excavating and disposal of concrete subbase, and all other work specified under Section 02221, not already identified in the Drawings, will be considered incidental to the cleaning and lining of the water main and no separate measurement will be made.
4. Payment for pre- and post- construction close circuit television inspection shall be included in the linear foot price for Items 5A through 5D.

B. Payment

1. Payment for cleaning by the dragline method (and by hand cleaning, where hand cleaning is required by the specifications) and cement lining the water mains will be made for the quantity as above determined at the contract price per linear foot of pipe per diameter in the Bid Form under Item 5A to 5D. That price and payment shall be full compensation for furnishing all labor, site preparation including locating and marking out the pipe at pavement level via trenchless method, equipment; saw cutting and removing existing pavement and concrete subbase; trench and access pit excavation and backfill including pavement subgrade (excluding rock and boulder excavation); trench support including all

braced excavation (whether or not left in place); decking and all incidental work, including driving and removing sheeting; coordination and work around other existing utilities (whether or not shown on the drawings); dewatering and drainage; materials for measurement and removing and disposing of existing pipe; overexcavation and refill for unsuitable material; fittings and appurtenances, as shown on drawings; replacing pipe and furnishing and installing new pipe not already shown on Drawings, furnishing and installing fittings including solid sleeves, restraining harnesses, reducers, bends, and all appurtenances at new pipe openings that are not already shown on the Drawings (or provided for in separate payment items) as required to perform the work; dewatering of pipe, dechlorination of water in pipe prior to discharge; cleaning, inspecting, cement lining including curing, and chlorinating the pipe; thrust restraint and providing new thrust blocks, removing and replacing thrust blocks where required; removal of existing mainline valves and piping to facilitate the cleaning and lining work within the access pits; removing and reinstalling sections of pipe for visual inspections, pre and post closed circuit television inspections; traffic control as specified in Section 01576; and all related work specified and all else in connection therewith and incidental thereto for which separate payment is not provided under other Items in the Bid Form.

2. Payment for fittings shown on the Drawings will be made under Item 2.
3. Payment shall not be paid for cleaning and lining water main segments that shall be removed and replaced as shown on the Drawings.
4. Payment for obstructions encountered and removed during pipeline cleaning and lining shall be made in the Supplemental Items.

1.06 RECONNECT EXISTING WATER SERVICE (ITEMS 6A THRU 6E)

A. Measurement

1. Reconnection of existing water services, of the sizes and materials listed in Items 6A through 6E, shall be measured as the number of existing services actually reconnected to the new water main, complete in place.
2. Item 6E is for reconnection of existing water services shown on the Drawings as lead services that are being replaced by others; match existing.

B. Payment

1. Payment for reconnecting existing water services (Items 6A through 6E) shall include, but not be limited to, furnishing and installing the new service tubing, corporation stop, fittings, valves, pipe jointing materials, adapters, couplings, and all other necessary connection materials; for hauling and handling of all materials; for jointing and connection to other service pipe (e.g. brass compression or polypropylene couplings); for any other incidental earthwork in connection with the installation of the service reconnection, including sawcutting, pavement removal, excavations, backfills and compaction, grading, and preparation of subgrades for pavement; for the partial removal and disposal of the existing service piping; 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 shown in the Drawings.

1.07 FURNISH AND INSTALL NEW WATER SERVICES (ITEMS 7A THRU 7B)

A. Measurement

1. New installation of 2” copper tubing (Item 7A) to replace existing cast iron services will be measured in place on a linear foot basis. Measurement for payment does not signify that the water service is accepted.
2. Measurement for length will be along the horizontal centerline of the pipe, with no deduction for valves or fittings. Measurement will be to the nearest tenth of a foot.
3. Installation of corporation stops, service saddles, curb stops, and service boxes (Item 7B) will be measured by the number installed for the size in each bid item complete in place and accepted for each new water service installation as shown on the Drawings.

B. Payment

1. Payment for furnishing and installing 2” copper tubing will be made for the respective quantities as above determined, at the applicable price per linear foot under Item 7A in the Bid Form. Such price and payment shall be full compensation for saw cutting and removing existing pavement and any subbase encountered; trench excavation (excluding rock and boulder excavation, excavation below normal grade), removal and disposal of existing water service and appurtenances; silt fences and compost socks; sheeting and bracing; dewatering and drainage; disposal of excess excavated and unacceptable material; furnishing, laying and jointing the pipe including all specified appurtenances, furnishing and installation of insulation for pipe with less than 4’-6” of cover or as directed by the Owner or Owner’s Designee; furnishing and installing all gravel backfill material including common fill and select common fill; furnishing and installing metalized detectable utility warning tape; backfilling, compaction; supporting of existing drains and utility lines in the trench; removal and resetting of existing curbing; restoring the trench surface to grade excluding pavement; restoration of all grassed areas disturbed during construction; furnishing, storing, and applying calcium chloride as required for dust control over services; restoring all physical features to original condition; cleaning, chlorinating and testing the service and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.
2. Payment for furnishing and installing corporation stops, service saddles, curb stops, and service boxes on an individual basis as herein specified will be made under Item 7B. Price and payment shall be full compensation for furnishing and installing the appurtenances and all work required for, or incidental to, the satisfactory completion of the Item for which payment is not provided under other Items in the Bid Form.

1.08 FURNISH AND INSTALL 2" BLOWOFF ASSEMBLY (ITEM 8)

A. Measurement

1. New installation of 2" blowoff assemblies (Item 8) will be measured by the number of blowoff assemblies actually installed at locations shown on the Drawings at the ends of designated water mains, complete in-place.

B. Payment

1. Payment for furnishing and installing blowoff assemblies on an individual basis as herein specified will be made under Item 8. Price and payment shall be full compensation for furnishing and installing the service saddle, 2" brass piping and fittings, curb stop, 2" 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 blowoff assembly associated with the water main replacement work, including saw cutting, pavement removal, excavations, bedding, backfills and compaction, grading, and preparation of subgrades (excluding pavement); for removal and disposal of the existing blowoff or bleeder assemblies and appurtenances; for all dewatering, pumping, drainage, and bailing of excavation; for the satisfactory removal and disposal of all materials, disposal of surplus material; 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 shown in the Drawings.

1.09 CAST IRON CNU SERVICE REMOVALS (ITEMS 9A THRU 9D)

A. Measurement

1. Removal of cast iron Closed Not-in-Use (CNU) services of sizes specified on the Drawings (Items 9A and 9B) will be for each service actually removed.

B. Payment

1. Payment for removing cast iron CNU services on an individual basis as herein specified will be made under Items 9A and 9B. Price and payment for full compensation shall include disposal of portions of the existing service tubing (as required to remove it from the main), closing or removal of the existing corporation stop and plugging of the water main at the existing corporation tap (or capping the corporation stop if it cannot be removed), including the cutting and crimping or plugging of the existing service pipe at the existing corporation location; and the removal and disposal of the upper sections of the existing curb stop/valve service box. This also includes all necessary labor, equipment, plant, tools and materials, to perform the specific work, and which price will also include excavations, backfilling, grading, and for the satisfactory removal and disposal of surplus materials; and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the work, as applicable, at the designated service locations, as shown in the Drawings or as directed by the Owner or Owner's designee.

2. Payment for Cast Iron CNU Service removals for 4” and 6” services as shown on the Drawings shall be made under Items 1A and 1B and Item 2 for furnishing and installing the pipe and fittings to abandon the service and to remove the existing valve box.

1.10 LEAD CNU SERVICE REMOVAL (ITEM 10)

A. Measurement

1. Removal of lead CNUs (Item 10) as specified on the Drawings will be measured by the number of lead CNUs actually removed and approved by the Owner or Owner’s Designee.

B. Payment

1. Payment for removing lead CNUs on an individual basis as herein specified will be made under Item 10. Price and payment for full compensation shall include disposal of lead service tubing (as required), closing or removal of the existing corporation stop and plugging of the water main at the existing corporation tap (or capping the corporation stop if it cannot be removed),, including the cutting and crimping of the existing lead service pipe at the existing corporation location (when applicable); and the removal and disposal of the upper sections of the existing curb stop box. This also includes all necessary labor, equipment, plant, tools and materials, to perform the specific work, and which price will also include excavations, backfilling, grading, restoration of the grassed areas, and for the satisfactory removal and disposal of surplus materials; and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete the closing/abandment of the existing service as applicable, at the designated service locations, as shown in the Drawings or as directed by the Owner or Owner’s designee.

1.11 TEMPORARY BY-PASS PIPING SYSTEM (ITEM 11)

A. Measurement

1. Temporary service pipe of all sizes necessary from 2- through 6-inches in diameter actually furnished, installed and removed by the Contractor will be measured along the centerline of the pipe, including fittings, valves, and tap holes, if required under Item 11. Smaller pipes, which are provided for temporary service connections, house connections, or other purposes will not be measured for payment. Pipe not ordered installed by the Owner or Owner’s Designee but employed by the Contractor solely for his own convenience and use, will not be measured for payment.
2. Temporary service pipe measurement shall be subject to the submittal and approval by the Owner of the Temporary Service Pipe Plan showing temporary service pipe and hydrant locations and connections.

B. Payment

1. Payment for furnishing, installing, maintaining, and removing temporary service pipe of all sizes between necessary 2- and 6-inches will be as Lump Sum under Item 11 in the Bid Form. Such Price and Payment shall be full compensation for furnishing all labor, equipment and materials for installing the pipe per the approved temporary service pipe plan, for all excavation including removing existing pavements, placing and removing decking, backfilling, protecting and maintaining the temporary piping during the

construction period, temporary and permanent paving where the temporary pipe and services cross the street or sidewalks; furnishing and installing prefabricated rubber or plastic ramps where temporary pipe crosses driveways where approved by Owner or Owner's Designee, furnishing, installing and connecting temporary service pipes to existing hydrants or providing temporary hydrants and other facilities required in connection with the temporary service piping and dewatering of mains for the purpose of replacing water mains, providing tap holes if necessary, chlorinating temporary pipe, restoring lawns/grassed areas, restoring sidewalks, curbing, and other surfaces in private or public property disturbed by the Contractor's operations; coordination with the property owners to facilitate the installation and removal of the existing temporary connections; all as specified and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.

2. Partial payment of work performed under this item will be subject to the submittal and approval of an appropriate Schedule of Values and approve of the payment by the Owner or Owner's Designee for any partial work.

1.12 FILL MATERIALS (ITEMS 12A Through 12C)

A. General

1. Gravel Borrow (Item 12A) will be utilized for backfill of miscellaneous work at the direction of the Owner or Owner's Designee. This item shall include handling, transportation placing of gravel borrow where the native hazardous material or unsuitable material is being replaced by gravel borrow.
2. Common Fill (Item 12B) will be utilized for backfill of miscellaneous work at the direction of the Owner or Owner's Designee. This item shall include handling, transportation placing of common fill where the native hazardous material or unsuitable material is being replaced by common fill.
3. Crushed Stone (Item 12C) will be installed on an as-needed basis for miscellaneous work at the direction of the Owner or Owner's Designee throughout the course of the project including utility conflicts.

B. Measurement

1. Measurement of Items 12A through 12C will be based on cubic yards installed as measured in place 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 Owner or Owner's Designee for purposes that are not already provided for in separate Pay Items.

C. Payment

1. Payment for Items 12A through 12C shall be as follows - Price and payment shall be full compensation for, but not limited to: furnishing, 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.

1.13 TEST PITS (ITEM 13)

A. Measurement

1. Test pits under Item 13 will be measured in a cubic yards where and when directed by the Owner or Owner's Designee to establish locations of existing pipelines, services, or other buried structures.

B. Payment

1. Payment for Item 13 will include all costs associated with sawcutting, pavement removal, excavation, backfilling (including pavement subgrade), excavaton support, compaction, grading, and preparation of subgrades; for all dewatering, pumping, drainage and bailing of excavations; for all labor, equipment, plant, tools and materials, and for all appurtenant and incidental work and all other costs necessary to satisfactorily complete this item of work in accordance with the specifications, as directed or approved by the Owner or Owner's Designee.
2. Where required, additional material to refill test pit excavations will be paid at the unit price bid for Items 12A through 12C.

1.14 FURNISH AND PLACE BITUMINOUS PAVEMENT – (ITEMS 14A THRU 14D)

A. Measurement

1. Measurement for Item 14A Furnish and Place Temporary Bituminous Pavement 2" for Sidewalks will be based on square yard(s) actually installed and as measured by the Owner or Owner's Designee to match existing widths, if and when directed.
2. Measurement for Items 14B through 14D Furnish and Place Bituminous Pavement – 4", 6", and 9" Bituminous – for trench pavement (and driveways) will be based on square yard(s) actually installed and as measured by the Owner or Owner's Designee to match existing depths, within the specified widths as shown on the Details in Appendix E, if and when directed.

B. Payment

1. Payment for Items 14A through 14D shall be full compensation for, but not limited to: compaction, formwork, curing, testing, protection, sweeping, cleaning and preparing the base course surface, compaction, traffic control, traffic signage; traffic flaggers; cutting back existing pavement, installation of tack coat, furnishing, hauling and placing the pavement, compacting, pavement marking restoration, signal loop detection, including all labor, materials and necessary equipment; removal of the pavement if not included in other items, 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. Cutting into and removing an existing concrete subbase will be paid for under Item 14.

1.15 FURNISH AND PLACE PERMANENT PAVEMENT – 8” CONCRETE BASE (ITEM 15)

A. Measurement

1. Measurement of Item 15 will be based on square yards actually installed and as measured by the Owner or Owner’s Designee, within the specified widths as shown on the Standard Details in Appendix E, if and when directed.

B. Payment

1. Payment for Item 15 Furnish and Place 8” Concrete Base shall be shall be full compensation for, but not limited to: compaction, installation of concrete subbase and reinforcing (matching existing concrete), connection of the reinforcement to the existing concrete, formwork, curing, testing, protection, sweeping, cleaning and preparing the base course surface, compaction, traffic control, traffic signage; traffic flaggers; cutting back existing pavement and concrete subbase as indicated in Appenix E, installation of tack coat, furnishing, hauling and placing the concrete subbase, compacting, 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.

1.16 MILL AND OVERLAY BITUMINOUS PAVEMENT RESTORATION (ITEM 16)

A. Measurement

1. Measurement for Mill and Overlay Final Butuminous Pavement (Item 16), will be in square yards as actually placed, curb-to-curb.

B. Payment

1. Payment for curb-to-curb milling and pavement shall include one 1.0-in thick bituminous base course and one 1.0-in thick bituminous surface course under Item 16, complete in place shall be full compensation for, but not limited to, performing base repairs as needed, curb resets, drainage inlet protection, resets and adjustments to final pavement elevation of all valve boxes, curb stops, manhole frames and covers, utility boxes/handholes, catch basins frames and grates (disturbed by paving operations) in accordance with the specified procedures of the approach utility; additional hot mix asphalt; surface preparation; milling, removal and disposal of millings, unsuitable material, loose aggregates, and other debris; sweeping for dust and debris control; asphalt placement, rolling, and compaction; restoration of pavers, cobblestones, pavement markings, loop detectors, and signal conduits; feathering driveway aprons to finished grade; infrared treatment of all joints to Moratorium Roads (and roads less than 5 years old); feathering and jointing to existing asphalt outside the project limits; squaring pavement edges, tack coating, and cleaning; 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.
2. Payment under Item 16 shall include all costs of furnishing, storing and applying calcium chloride as required for dust control.

3. Payment for restoring sidewalks, driveways and curbing, of whatever type encountered, to at least original condition disturbed by construction operations will be made under Items 17 and 18.
4. If the thickness of pavement or sub-base ordered placed by the Owner or Owner's Designee is greater than that specified, payment will be prorated on the basis of the thickness of material actually ordered placed. No payment will be made for any additional pavement or sub-base not specifically ordered in writing by the Owner or Owner's Designee.
5. No additional payment will be made for leveling course, if required, over disturbed pavement or trenches.
6. Payment under Item 16 shall include remarking the pavement after both temporary and permanent paving.

1.17 CONCRETE SIDEWALK/DRIVEWAY/WHEELCHAIR RAMP RESTORATION (ITEMS 17A THRU 17D)

A. Measurement

1. Measurement for removing and replacing existing concrete sidewalk/driveway apron/wheelchair ramps (Items 17A through 17D) will be measured as the actual area on a square yard basis of concrete (or temporary bituminous pavement) removed and replaced as indicated on the Drawings or as otherwise required by the Owner or Owner's Designee.

B. Payment

1. Payment for removing and replacing concrete sidewalk/driveway apron/wheelchair ramps shall be made for the quantity as above determined at the unit price per square yard bid under Item 17A through 17D in the Bid Form for the respective bid item. This price and payment shall be full compensation for excavation (excluding rock and boulder); removal of temporary bituminous material and excavation for the pavement subbase; saw cutting, removal and disposal of existing median and roadway required; removal and resetting of all traffic signs; backfill; shaping subgrade to required grade and cross section; compacting the subgrade; leveling; adhering to ADA standards; furnishing, placing and compacting the 8-in processed gravel subbase; treatment of new surface with a RIDOT-approved cement concrete penetrant / sealant suitable to reduce damage due to application of salts or other deicing solutions; all concrete and finishing work; expandable filler joint material; expansion joints; water for construction purposes; including all equipment, labor and materials necessary to perform the work, as described in the latest RIDOT Standard Specifications; and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.

1.18 FURNISH AND INSTALL CURBING (ITEM 18A through 18E)

A. Measurement

1. Installation of granite, bituminous, or cast-in-place or precast concrete curbing will be measured by linear foot of the actual number of linear feet of new curbing installed under

Items 18A through 18D or removed and rest under Item 18E. Contractor shall minimize the limits of disturbance of existing sound curbing to remain during construction operations.

2. Resetting existing curbing, which may be required outside of the service replacement trench limits to accommodate the proper restoration of the existing sidewalk or as directed by the Owner or Owner's Designee will be measured in linear foot. Measurement will be based on the actual number of linear feet, as measured in the field, of existing granite curbing that is disturbed and reset, as directed and approved by the Owner or Owner's designee.

B. Payment

1. Payment under Items 18A through 18D is for furnishing and installing new granite, bituminous, or cast-in-place or precast concrete curbing includes the cutting and removal of the existing curbing; furnishing, installation and preparation/compaction of the gravel subgrade; compaction; furnishing and installing the new replacement curbing; forming and installing concrete/bituminous curbing, mortar jointing (as applicable); miscellaneous concrete; mortar work and finishing; cement at face of curb; and clean-up, including all equipment, labor and materials necessary to perform the work and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.
2. Payment under Item 18E for removing and resetting granite curbing outside of the typical service replacement limits of the disturbance, as directed by the Owner or Owner's Designee at select location includes the removal, handling, storage, and cleaning of the existing segments of granite curbing; the preparation of the gravel subgrade; compaction of the subgrade; resetting of the existing curbing to proper line, grade and curb reveal; mortar jointing (as applicable); concrete; mortar work and finishing; cement at face of curb; disposal; and clean-up, including all equipment, labor and materials necessary to perform the work and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.

1.19 TRAFFIC CONTROL – FLAGGERS (ITEM 19)

A. General

1. The traffic control allowance will apply only to the labor for traffic control Flaggers 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 traffic control Police officers for the project.

C. Payment

1. Payment for traffic control Flaggers 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 traffic control for this Contract, including traffic control devices, barriers, signage, flaggers, vehicles, equipment, personnel, and administrative costs, shall be paid separately, as identified in other bid items.
- b. Additionally, any fees associated with permits required for road opening by the Rhode Island Department of Transportation and Municipalities shall be paid under the respective replacement bid item and not under any allowance item.

1.20 TRAFFIC CONTROL – POLICE DETAILS (ITEM 20)

A. General

1. The 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 traffic control Police officers for the project.

C. Payment

1. Payment for traffic control Police 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 traffic control for this Contract, including traffic control devices, barriers, signage, flaggers, vehicles, equipment, personnel, and administrative costs, shall be paid separately, as identified in other bid items.
 - b. Additionally, any fees associated with permits required for road opening by the Rhode Island Department of Transportation and Municipalities shall be paid under the respective replacement bid item and not under any allowance item.

1.21 FURNISH AND INSTALL NEW WATER SERVICES (ITEMS S-1A through S-1D)

A. Measurement

1. Installation of 1” and 1.5” copper tubing (Item S-1A and S-1B) will be measured in place on a linear foot basis, as directed by the Owner or the Owner’s Designee. Measurement for payment does not signify that the water service is accepted.
2. Measurement for length will be along the horizontal centerline of the pipe, with no deduction for valves or fittings. Measurement will be to the nearest tenth of a foot.
3. Installation of 1” and 1.5” corporation stops, service saddles, curb stops, and service boxes (Items S-1C and S-1D) will be measured by the number installed for the size in each bid item complete in place and accepted for each water service installation as as directed by the Owner or Owner’s Designee.

B. Payment

1. Payment for furnishing and installing 1” and 1.5” copper tubing will be made for the respective quantities as above determined, at the applicable price per linear foot under Items S-1A and S-1B in the Bid Form. Such price and payment shall be full compensation for saw cutting and removing existing pavement and any subbase encountered; trench excavation (excluding rock and boulder excavation, excavation below normal grade), removal and disposal of existing water service and appurtenances; silt fences and compost socks; sheeting and bracing; dewatering and drainage; disposal of excess excavated and unacceptable material; furnishing, laying and jointing the pipe including all specified appurtenances, furnishing and installation of insulation for pipe with less than 4’-6” of cover or as directed by the Owner or Owner’s Designee; furnishing and installing all gravel backfill material including common fill and select common fill; furnishing and installing metalized detectable utility warning tape; backfilling, compaction; supporting of existing drains and utility lines in the trench; removal and resetting of existing curbing; restoring the trench surface to grade excluding pavement; restoration of all grassed areas disturbed during construction; furnishing, storing, and applying calcium chloride as required for dust control over services; restoring all physical features to original condition; cleaning, chlorinating and testing the service and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.
2. Payment for furnishing and installing corporation stops, service saddles, curb stops, and services boxes on an individual basis as herein specified will be made under Items S-1C and S-1D. Price and payment shall be full compensation for furnishing and installing the appurtenances and all work required for, or incidental to, the satisfactory completion of the Item for which payment is not provided under other Items in the Bid Form.

1.22 OBSTRUCTIONS (encountered during cleaning and lining) (ITEM S-2)

A. Measurement

1. The quantity for obstructions (Item S-2) will be measured for payment by the actual number of obstructions encountered and removed from the existing water main, as defined in Section 02760 Cleaning and Lining Water Mains and approved by the Owner or Owner’s Designee.

B. Payment

Payment for obstructions under Item S-2 will be made for the quantity as above determined at the contract price per each for the actual number of each obstruction encountered and removed from the existing water mains, as defined in Section 02760 Cleaning and Lining Water Mains, which price shall include pavement saw-cutting, pipe cutting and removal, excavation, backfilling, and compaction and all labor, materials required and incidental to complete the work of the project.

1.23 BUILDING ENTRY REFUSAL – “DIG DOWN” BYPASS CONNECTION AT CURB STOP (ITEM S-3)

A. Measurement

1. "Dig Down" By-Pass Connections may be necessary where a building owner refuses entry and access to the interior plumbing and / or the contractor is unable to connect the building to by-pass via the silcock, the Contractor will be compensated for furnishing and installing a temporary service connection to the temporary bypass system underground in the right of way. Measurement for Item S-3 will be actual number of temporary by-pass "dig down" connections performed in the field as directed and approved by the OWNER.

B. Payment

1. Payment for each special temporary service connection completed under Item S-3 to furnish and install a temporary service connection to the temporary bypass system underground will be made at the unit prices bid and shall be full compensation for the furnishing of all labor, equipment, tools, supplies, materials, appurtenances, and all other work incidental and necessary for satisfactorily installing piping, fittings, pipe jointing materials, isolation valves, and all other necessary accessory materials; for hauling and handling of all materials; maintaining and removing temporary building service connections made underground; for all other incidental earthwork associated with the installation of the subterranean temporary service connections, including saw-cutting, pavement removal, excavations, pipe bedding, backfills 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; 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 underground service connections in accordance with the specifications, and at the locations as directed by the OWNER.

1.24 LINE STOPS (ITEMS S-4A THRU S-4D)

A. Measurement

1. The furnishing, installation, and removal of temporary single line stopping devices, for all sizes listed in Items S-4A through S-4D, will be measured for payment by the actual number of line stop operations by diameter on the existing water mains as directed by the Owner or Owner's Designee.

B. Payment

1. Payment under Items S-4A through S-4D for the furnishing, installation, and removal of all temporary single line stopping devices shall include, but not be limited to, furnishing all labor, materials and equipment required for excavation, backfilling and compacting (including pavement subgrade), and exposure of existing water mains for proper installation and removal of line stopping devices.

1.25 INSERTION VALVES (ITEMS S-5A THRU S-5D)

A. Measurement

1. The furnishing, installation, and removal of insertion valves, for all sizes listed in Items S-5A through S-5D, will be measured for payment by the actual number of insertion valves

installed on the existing water mains as directed and approved by the Owner or Owner's Designee.

B. Payment

1. Payment under Items S-5A through S-5D for the furnishing and installation of all insertion valves shall include, but not be limited to, furnishing all labor, materials and equipment required for excavation, backfilling and compacting (including pavement subgrade), and exposure of existing water mains for proper installation.

1.26 FILL MATERIALS (ITEMS S-6A AND S-6B)

A. General

1. Excavatable Flowable Fill may be utilized for backfill of miscellaneous work at the direction of the Owner or Owner's Designee. 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. Miscellaneous Concrete (Item S-6B) will be installed on an as-needed basis for miscellaneous work at the direction of the Owner or Owner's Designee throughout the course of the project.

B. Measurement

1. Measurement of Item S-6A Excavatable Flowable Fill and Item S-6B Miscellaneous Concrete will be based on cubic yards actually installed as measured in place by the Owner or Owner's Designee 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 Owner or Owner's Designee to replace unsuitable soil.

C. Payment

Payment for Items Item S-6A shall be full compensation for, but not limited to furnishing, installing, formwork, injection, and compaction including all labor, materials and necessary equipment required for or incidental to the satisfactory completion of the work in these items for which payment is not provided under other items in the Bid Form.

1.27 TRENCH ROCK EXCAVATION AND REMOVAL (ITEM S-7)

A. Measurement

1. Trench rock excavation and removal will be measured in cubic yards in its original position, prior to excavation, computed based on 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.

B. Payment

1. Payment shall be at the unit price noted on the Bid Form and 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.

1.28 BRICK/PAVER AND COBBLESTONE RESTORATION (ITEMS S-8A and S-8B)

A. Measurement

1. Restoration of existing brick/paver or cobblestones surface treatments under Items S-8A and S-8B will be measured by square yards. Measurement will be computed based on the actual width and length dimensions measured in the field at the site of the approved cobblestone sidewalk, walkway, driveway, or street restoration. Contractor shall minimize the limits of disturbance of existing cobblestone to remain during construction and removal operations.

B. Payment

1. Payment under Items S-8A and S-8B shall include the preparation of the subgrade; sand or stone dust bedding; compaction; placing and resetting the existing cobblestones; furnishing and installing new cobblestones, where required; and sidewalk cleanup.

1.29 INFRARED BITUMINOUS PAVEMENT RESTORATION (ITEM S-9)

A. Measurement

1. Infrared pavement restoration under Item S-9 will be measured by square yard. The limits of work for infrared restoration areas will be determined in the field as directed by the Owner or Owner's Designee. Contractor shall minimize limits of asphalt burn back to 6" beyond the existing temporary patch edge or as determined in the field as directed by the Owner or Owner's Designee.

B. Payment

1. Payment for infrared pavement restoration under Item S-9 shall include the labor, materials and equipment required to blend new bituminous material with infrared heated existing material to form a joint free integral mix. The cost includes but is not limited to drainage inlet protection, resets and adjustments to final pavement elevation of all valve boxes, curb stops, manhole frames and covers, catch basin frames and grates (disturbed by construction operations) in accordance with the specified procedures of the appropriate utility, additional hot mix asphalt added during infrared process, asphalt rejuvenator agent, sand or stone dust, removal and disposal of unsuitable material or loose aggregates, temporary patch preparation and final treatment; restoration of pavement markings and loop detectors, feathering driveway aprons to finished grade, jointing to existing asphalt (if required), squaring pavement edges; tack coating; rolling and compaction; and cleaning, sweeping. All other work will be considered incidental to this unit item and unit bid price shall include all work defined in this section.

2. The full depth hot mix asphalt placed in trench after soil compaction (prior to infrared restoration) shall be quantified and paid under Items 14A through 14D at the corresponding depth placed to match the existing pavement thickness in-kind.

1.30 EXPLORATORY VIDEO INSPECTION (ITEM S-10)

A. Measurement

1. Supplemental exploratory video inspections under Item S-10 will be measured by linear foot for the linear footage of existing water mains that are video inspected for exploratory purposes at locations designated by the Owner or Owner's Designee.

B. Payment

1. Payment under Item S-10 shall include all labor, materials, equipment, tools, supplies and plant, which will be required to perform the video inspection; the associated excavation and backfilling; the installation of the excavation support system; the dewatering of pipelines and excavations; the disconnecting and/or cutting the water main pipe; the protection of structures, properties and utilities; furnishing, installing, maintaining and removing steel decking over street access pit openings; site maintenance; and as further described in the preceding paragraphs.
2. The replacement of existing piping, fittings, valves, and other appurtenances which are removed from the existing water mains for the video inspection operations, will be measured and paid separately.
3. Pre- and post video inspection for cleaning and lining water mains is included in Items 5A through 5D.

1.31 UNIT PRICES

A. Measurement

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 Labor Rates, Equipment Rates, and Materials & Subcontractor Cost Markup sections of the Bid Form.

B. Payment

1. Unit prices and cost markup percentages, as submitted with the Bid Form, 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 utilized for in the scope contract work.
2. Original invoices for Materials and Subcontractor cost shall be submitted to Providence Water with the respective application for payment.

1.32 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. 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 Owner or Owner's Designee. Time and material records shall be submitted to the Owner or Owner's Designee on a daily basis and in no case later than 48 hours after the work is performed.

1.33 DEFECT ASSESSMENT

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

1.34 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 – NOT USED

END OF SECTION