Addendum No. 2
to the Bidding Documents

Warren Avenue & Highland Avenue Water Line Replacement
City of East Providence Department of Public Works - Water Utilities Division
East Providence, RI

Issued May 23, 2024

Under the provisions of Article 7 of Section 00200, Instructions to Bidders, Bidders are informed that the Bidding Documents for the above mentioned Project are modified, corrected, and/or supplemented as follows. Addendum No. 2 becomes part of the Bidding Documents and Contract Documents.

Acknowledge receipt of this addendum by inserting its number on Page *00410-11*, Article 5.2 of the Bid form. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification. The bid opening will be held at the City of East Providence City Hall, 145 Taunton Avenue, East Providence, RI 02914, Conference Room A on May 29, 2024 at 11:00 AM.

Project Manual Changes

Item 2-1- Section 00410 -Advertisement for Bids

Delete Section 00410 in its entirety and **replace** it with the attached Section 00410 -Bidform.

Item 2-2- Section 1270 – Measurement and Payment

Delete all references to "processed gravel" in Paragraph 1.9 Sand Borrow Item (8) and **Replace** with "sand borrow".

Item 2-3– Section 1270 – Measurement and Payment

Add after item 1.34 of Section 01270:

"Monthly price adjustment for hot mix asphalt (HMA) Mixtures (ITEM 38)

A. Measurement

1. This Contract contains a price adjustment for bituminous concrete (hot mix asphalt) mixtures. The value provided in the Bid Form is an allowance for budgeting purposes only. The value is neither a limit nor a guarantee of payment. Payment to the Contractor for increases in the price of liquid asphalt, or credits due to the Owner for decreases in the price of liquid asphalt, will be determined in accordance with the following procedure.

   a. The Base Price for liquid asphalt for this Project will be $665.00 per ton.

   b. The price adjustment shall be based on the variance in price for the liquid asphalt component only of hot mix asphalt from the Base Price to the Period Price. It shall not include transportation or other charges. The price adjustment shall occur on a monthly basis.

c. The Period Price shall be as published by the Rhode Island Department of Transportation for the calendar month in which the Work was completed.

d. The Contract price adjustment will be paid only for the liquid asphalt contained in the hot mix asphalt paid under the following Items: Bituminous Concrete Trench Repairs & Bituminous Concrete Overlay.

e. For the aforementioned items subject to the Contract price adjustment, the liquid asphalt content of hot mix asphalt mixtures shall be calculated based on 5.5% (0.055) by weight regardless of percentages established in individual job mix formulas.

f. The price adjustment will be determined by multiplying the number of tons of hot mix asphalt paid during each one-month period by the liquid asphalt content times the variance in price between Base Price and Period Price of liquid asphalt.

g. The price adjustment will be paid only if the variance of the Period Price from the Base Price is 5 percent or more for a given month. The adjustment will be paid with no deduction of the 5 percent from either upward or downward adjustments.

1.2 MONTHLY PRICE ADJUSTMENT FOR DIESEL FUEL (ITEM 39)

A. Measurement

1. This Contract contains a price adjustment for diesel fuel. The value provided in the Bid Form is an allowance for budgeting purposes only. The value is neither a limit nor a guarantee of payment. Payment to the Contractor for increases in the price of diesel fuel, or credits due to the Owner for decreases in the price of diesel fuel, will be determined in accordance with the following procedure.

a. The Base Price for diesel fuel for this Project will be $2.6537 per gallon.

b. The price adjustment shall be based on the variance in price for diesel fuel from the Base Price to the Period Price and shall occur on a monthly basis.

c. The Period Price shall be as published by the Rhode Island Department of Transportation for the calendar month in which the Work was completed.

d. The price adjustment will be determined by multiplying the number of cubic yards of excavation and borrow (as defined in the next paragraph) paid during each one-month period by 0.29 gallons per cubic yard, and adding that to the tons of hot mix asphalt (as defined in the next paragraph) paid during each one-month period by 2.90 gallons per ton. The total number of gallons calculated shall then be multiplied by the variance in price between Base Price and Period Price of diesel fuel.

e. Excavation and borrow paid under the following Items shall be used to calculate the amount of diesel fuel as described in the above paragraph: trench Excavation 0-10', Ordinary Borrow, Stone Borrow, Hot mix asphalt paid under the following Items shall be used to calculate the amount of diesel fuel as described in the above paragraph: Bituminous Concrete Trench Repairs and Bituminous Concrete Overlay.

f. The price adjustment will be paid only if the variance of the Period Price from the Base Price is 5 percent or more for a given month. The adjustment will be paid with no deduction of the 5 percent from either upward or downward adjustments."

Drawing Changes

Item 2-3 **Drawing G-002 General Notes, Abbreviations and Legend**

Replace Drawing G-002 General Notes, Abbreviations and Legend with revised Drawing G-002 attached.

Item 2-4 **Drawing G-003 Water System, Surface, and Pavement Restoration Notes**

Replace Drawing G-003 Water System, Surface, and Pavement Restoration with revised Drawing G-003 attached.

Clarifications

Item 2-5 Drawings G-002 & G-003 were reissued due to a printing error. No changes besides the additional the addition of "pipe to be abandoned" to the Legend.

Bidding Period Questions and Responses

Question No. 1
Please clarify the use of processed gravel.

Response:
Processed Gravel is to be used as temporary pavement (Item 28) and temporary sidewalk subbase (Item 33). Processed gravel can also be used to replace unsuitable material where it is requested to be used by the Contractor and deemed appropriate by the Engineer and Owner. Please note that the estimated quantity included in Item No. 7 – Processed Gravel Borrow has been reduced from 1,250 c.y. to 500 c.y. per Addendum Number 2 (this addendum).

Question No. 2
Confirm backfill requirements.

Response:

Contractor is to utilize suitable/approved onsite common borrow (native backfill) for backfilling of trench and pipe envelope. Backfill material shall be free of large stones, frozen materials, organic and inorganic debris, etc. and be able to be compacted to meet specifications outlined in Specification Section 02315.

Question No. 3
Please confirm the quantities of ductile iron pipe and whether or not zinc coated fittings and zinc coating piping is required.

Response:
The quantities of pipe have been updated in the revised bid form, and both the ductile iron pipe and ductile iron fittings are to be zinc coated.

Question No. 4:
Will there be an asphalt price fluctuation cost?

Response:
Tighe & Bond has included an allowance for price adjustments for Hot Mix Asphalt (HMA), & Diesel Fuel. The allowance included in the contract is neither a limit nor a guarantee of payment. Payment to the Contractor or Credits due to the owner will be determined by the procedure outlined in the Measurement and Payment (Item 38 & Item 39).

Attachments

1. 00410 - Bidform
2. Drawing – G-002 & G-003.

END OF ADDENDUM NO. 2

Attachment 1
(Bidform 0410)

SECTION 00410

BID FORM

PROJECT IDENTIFICATION:

Warren Avenue & Highland Avenue Water Line Replacement
East Providence, Rhode Island

TABLE OF ARTICLES

ARTICLE 1 - BID RECIPIENT

1.1 This Bid is submitted to:

CITY OF EAST PROVIDENCE
DEPARTMENT OF PUBLIC WORKS
60 COMMERCIAL WAY
EAST PROVIDENCE, RHODE ISLAND

1.2 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGEMENTS

2.1 Bidder accepts all of the terms and conditions of the Advertisement for Bids and Instructions to Bidders, including without limitation, those dealing with the disposition of Bid deposit. The Bid will remain subject to acceptance for 30 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.1 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents and hereby acknowledges the receipt of all Addenda.

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.

I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

K. Bidder is aware that the estimated quantities on the Bid Form are subject to Article 13.03 of the General Conditions (Section 00700).

ARTICLE 4 - BIDDER'S CERTIFICATION

4.1 Bidder hereby certifies under the penalties of perjury, to the best of Bidder's knowledge and belief, that Bidder has filed all State tax returns and paid all State taxes required by law.

4.2 Bidder certifies under 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 herein the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

4.3 Bidder certifies that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

4.4 Bidder certifies that Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

4.5 Bidder certifies that Bidder has not solicited or induced any individual or entity to refrain from bidding; and

4.6 Bidder certifies that Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:

A. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

B. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

C. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

D. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 - BASIS OF BID

5.1 A labor and material or payment bond in the amount of 100% of the total contract price must be provided by the general contractor. A performance bond in the amount of 100% of the total contract price must be provided by the general contractor. Bidder will complete the work in accordance with the Contract Documents for the following price(s):

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
1	Mobilization and Demobilization, per lump sum, the price of: _____ ($) *Not to exceed 5 percent of the total Bid price	lump sum* =	$_____
2	Traffic Control, per lump sum, the price of: _____ ($)	lump sum =	$_____
3	Uniformed Traffic Police, per lump sum, the price of: _____ ($ one hundred thousand dollars & zero cents)	allowance =	$100,000
4	Test Pits, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 150 c.y. =	$_____
5	Excavation Below Normal Grade – Unsuitable Material, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 150 c.y. =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
6	Rock Excavation, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 50 c.y. =	$_____
7	Processed Gravel Borrow, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 500 c.y. =	$_____
8	Sand Borrow, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x *50 c.y. =	$_____
9	¾" Crushed Stone Borrow, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 25 c.y. =	$_____
10	Ordinary Borrow, per cubic yard, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x * 150 c.y. =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
11	Removal & Disposal of Concrete Roadbase, per cubic yard, the price of: _____ ($)	x * 350 c.y. =	$_____
12	Straw Wattles, per linear foot, the price of: _____ ($)	x 150 l.f. =	$_____
13	Catch Basin Sedimentation Control, each, the price of: _____ ($)	x 22 each =	$_____
14	6-inch, Zinc Coated, Polyethylene Encased, Ductile Iron Pipe & Fittings, per linear foot, the price of: _____ ($)	x 100 l.f. =	$_____
15	8-inch Ductile Iron, Zinc Coated, Polyethylene Encased, Pipe & Fittings, per linear foot, the price of: _____ ($)	x 550 l.f. =	$_____
16	12-inch Ductile Iron, Zinc Coated, Polyethylene Encased, Pipe & Fittings, per linear foot, the price of: _____ ($)	x 1,275 l.f. =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
17	Extra Ductile Iron, Zinc Coated Fittings, per pound, the price of: _____ ($) * Indeterminate quantity assumed for comparison of bids	x 500* lbs =	$_____
18	6-inch Gate Valves with Boxes, each, the price of: _____ ($)	x 1 each =	$_____
19	8-inch Gate Valves with Boxes, each, the price of: _____ ($)	x 6 each =	$_____
20	12-inch Gate Valves with Boxes, each, the price of: _____ ($)	x 6 each =	$_____
21	Hydrant Assemblies, each, the price of: _____ ($)	x 5 each =	$_____
22	Existing Hydrants Removed, each, the price of: _____ ($)	x 3 each =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
23	2-inch Copper Tubing for Water Service, per linear foot, the price of: _____ ($)	x 235 l.f. =	$_____
24	2-inch Water Service Corporation Stop, each, the price of: _____ ($)	x 5 each =	$_____
25	2-inch Water Service Curb Stop, Box & Coupling, each, the price of: _____ ($)	x 5 each =	$_____
26	Removal of Existing Water Gate Box, each, the price of: _____ ($)	x 10 each=	$_____
27	Abandonment of Existing Water Mains, each, the price of: _____ ($)	x 5 each=	$_____
28	Temporary Bituminous Concrete Pavement Repair, per square yard, the price of: _____ ($)	x 1,600 s.y. =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
29	Permanent Bituminous Concrete Pavement Repair, per square yard, the price of: _____ ($)	x 2,200 s.y. =	$_____
30	Bituminous Concrete Milling (Cold Planing) per square yard, the price of: _____ ($)	x 4,250 s.y. =	$_____
31	2" Bituminous Pavement Overlay, per square yard, the price of: _____ ($)	x 4,250 s.y. =	$_____
32	8" Concrete Roadbase, per cubic yard, the price of: _____ ($)	x 350 c.y. =	$_____
33	Temporary Bituminous Concrete Sidewalk & Driveway Repair, per square yard, the price of: _____ ($)	x 200 s.y. =	$_____
34	Permanent Concrete Sidewalk & Driveway Repair, per square yard, the price of: _____ ($)	x 250 s.y. =	$_____

BASE BID SCHEDULE

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
35	Concrete Curb Removal & Resetting, per linear foot, the price of: _____ ($)	x 50 l.f. =	$_____
36	Replace Traffic Loop Sensor, each, the price of: _____ ($)	x 10 each =	$_____
37	Loam & Seed per square yard, the price of: _____ ($)	x 300 s.y =	$_____

38	Monthly price adjustment for hot mix asphalt (HMA) Mixtures, the price of: Ten thousand dollars and zero cents ($ Ten thousand dollars and zero cents)	x Allowance =	$10,000
39	Monthly price adjustment for diesel fuel, the price of: Ten thousand dollars and zero cents ($ Ten thousand dollars and zero cents)	x Allowance =	$10,000

TOTAL AMOUNT OF BASE BID – Items 1 through 39

_____ dollars

(words)

($ _____)

(figures)

5.2 This Bid includes Addenda numbered _____.

ARTICLE 6 - TIME OF COMPLETION

6.1 Bidder agrees that the Work will be substantially completed and ready for final payment in accordance with paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.2 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times as stated in the Agreement.

ARTICLE 7 - ATTACHMENTS TO THIS BID

7.1 The following documents are attached to and made a condition of this Bid:

A. Bid deposit in the amount of _____ dollars ($_____ _____), consisting of a bid bond in the amount of five percent of the total amount of Bid

B. Evidence of authority to sign

C. List of Project References

D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids

E. A list of adversarial proceedings in which the bidder is or was a party within the past 5 years that relate to the procurement or performance of any public or private construction contract together with a brief statement as to outcome if concluded or status if pending.

F. A list of any projects on which the firm was terminated or failed to complete the work within the past 5 years, including a brief explanation for each instance listed.

G. Evidence of Bidder's qualifications in accordance with Article 3 of Section 00200

H. MBE/WBE participation forms

ARTICLE 8 - BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

_____

By:
[Signature] _____

[Printed name] _____
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:
[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

_____

_____

_____

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

_____

Bidder's License No.: _____
(where applicable)

END OF SECTION

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Attachment 2
(Drawings G-002 & G-003)

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	(M)	MARKED
BB	BITUMINOUS BERM	MAG	MAGNETIC NAIL
BCC	BITUMINOUS CONCRETE CURB	MB	MAILBOX
BCW	BITUMINOUS CONCRETE WALK	MH	MANHOLE
BIT	BITUMINOUS	MAX	MAXIMUM
BK	BOOK	M, MAP	MAPLE TREE
BND	BOUND	MIN.	MINIMUM
CB	CATCH BASIN	MJ	MECHANICAL JOINT
CC	CONCRETE CURB	MRW	MASONRY RETAINING WALL
CI	CAST IRON PIPE	PB	PLAN BOOK
CL	CLASS	PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE
CLF	CHAIN LINK FENCE	PG	PAGE
CONC	CONCRETE	PK	PARKER KAYLON
CMP	CORRUGATED METAL PIPE	PROP	PROPOSED
CPP	CORRUGATED PLASTIC PIPE	PVC	POLYVINYLCHLORIDE PIPE
CRW	CONCRETE RETAINING WALL	PW	PUBLIC WATER
CSE	COBBLESTONE EDGING	RCP	REINFORCED CONCRETE PIPE
CSW	CONCRETE SIDEWALK	REINF.	REINFORCED
DH	DRILL HOLE	REQ'D	REQUIRED
DI	DUCTILE IRON PIPE	RET	RETAINING
DIA	DIAMETER	RT	RIGHT
DMH	DRAIN MANHOLE	SAN	SANITARY
EL, ELEV.	ELEVATION	SB	STONE BOUND
EOP	EDGE OF PAVEMENT	SCH	SCHEDULE
EST.	ESTIMATED	SMH	SEWER MANHOLE
FND	FOUND	SS	STAINLESS STEEL
FG	FINISHED GRADE	STK	STOCKADE FENCE
FT	FOOT	TMB	TEMPORARY BENCH MARK
GC	GRANITE CURB	TOB	TOP OF BELL
GG	GAS GATE	TOW	TOP OF WATER
GALV	GALVANIZED	TSP	TRAFFIC SIGNAL POLE
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
HH	HANDHOLE	UG	UNDERGROUND
HSE	HOUSE	UP	UTILITY POLE
HYD	HYDRANT	UTIL	UTILITY
INV	INVERT	VC	VITRIFIED CLAY PIPE
IP	IRON PIN	W	WATER SERVICE
LF	LINEAR FEET	WG	WATER GATE
LP	LIGHT POLE	WGM	WATER GATE MANHOLE
LST	LANDSCAPE TIMBER	WMH	WATER MANHOLE
LT	LEFT	WP	WOODEN POST

1

LEGEND

- EXISTING SANITARY SEWER — SS
- EXISTING SANITARY SEWER FORCE MAIN — SFM
- EXISTING STORM DRAIN — SD
- EXISTING WATER MAIN — PW
- PROPOSED WATER MAIN — PW
- EXISTING GAS MAIN — G
- EXISTING UNDERGROUND TELEPHONE — T
- EXISTING UNDERGROUND ELECTRIC — E
- EXISTING OVERHEAD UTILITY LINES — OE
- EXISTING UNDERGROUND CABLE — CTV
- EXISTING WOOD FENCE
- EXISTING CHAIN LINK FENCE
- PROPERTY LINE
- EDGE OF PAVEMENT
- TREE/BRUSH LINE
- EXISTING STONE WALL
- PROPOSED STRAW WATTLES
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- EXISTING HYDRANT
- EXISTING WATER METER/GATE VALVE — WG
- EXISTING GAS GATE VALVE — GG
- PROPOSED HYDRANT
- PROPOSED COUPLING
- PROPOSED GATE VALVE
- PROPOSED BEND
- PROPOSED REDUCER
- WATER MAIN CAP OR PLUG
- PROPOSED THRUST BLOCK
- PROPOSED WATER SERVICE — WSO
- SIGN
- UTILITY POLE/LIGHT POLE
- GUY WIRE
- TRAFFIC STRUCTURE
- TRAFFIC INDUCTANCE LOOP HANDHOLE
- MAILBOX — MB
- CONIFEROUS TREE (TYPE/SIZE AS NOTED)
- DECIDUOUS TREE (TYPE/SIZE AS NOTED)
- TEST PIT REQUIRED
- 100-FT BUFFER ZONE
- 100-FT RIVERFRONT AREA
- 200-FT RIVERFRONT AREA
- BORDERING VEGETATIVE WETLAND (BVW)
- PIPE TO BE ABANDONED

BASE PLAN NOTES

1. THE FIELD SURVEY FOR THIS PROJECT WAS COMPLETED BY THE EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION ON MAY 26, 2022. CONDITIONS SHOWN ON THIS PLAN REFLECT CONDITIONS AT THE TIME OF THE SURVEY.
2. UTILITY LOCATIONS SHOWN WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM AS BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS.
3. HORIZONTAL DATUM = RHODE ISLAND STATE PLANE COORDINATE (RISPC-NAD83)
4. VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
5. THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.
6. THE PROPERTY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE NOT BASED ON DEED OR PLAN RESEARCH.

GENERAL NOTES

1. NOTIFY (DIGSAFE AT 1-888-344-7233) AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE (DIGSAFE) LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
2. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
3. NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
4. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
5. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
6. EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
7. NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
8. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
9. OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
10. SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
11. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
12. PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE DRAINAGE SYSTEM.
13. NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
15. TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
16. NO OPEN TRENCHES WILL BE ALLOWED OUTSIDE OF WORK HOURS. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
17. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
18. MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
19. WHEN WORKING IN THE ROAD, PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
20. REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
21. THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
22. THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
23. ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.
24. CONTACT FIRE DEPARTMENT ABOUT HYDRANT REMOVAL AND REPLACEMENT.

EROSION CONTROL AND RESOURCE AREA PROTECTION NOTES

1. PROVIDE ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
2. INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
3. SETTLE OR FILTER ALL SILT-LADEN WATER FROM DEWATERING ACTIVITIES IN A SEDIMENTATION OR FILTER BAG TO REMOVE SEDIMENTS PRIOR TO RELEASE USING A SEDIMENTATION OR FILTER BAG LOCATED DOWN-GRADIENT OF THE DEWATERED AREA.
4. REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.
5. SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
6. MAINTAIN AN ADDITIONAL SUPPLY OF EROSION CONTROL MEASURES ON-SITE FOR EMERGENCY REPAIRS.
7. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
8. PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

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BID SET

WARREN AVENUE & HIGHLAND AVENUE WATER LINE REPLACEMENT

Department of Public Works

East Providence, RI

MARK	DATE	DESCRIPTION
1	5/23/24	ADD #2
0	4/2/24	ISSUED FOR BID

PROJECT NO:	E0764-10
DATE:	APRIL 2024
FILE:	G-002 GENERAL NOTES AND LEGEND.dwg
DRAWN BY:	LMK
CHECKED:	RH
APPROVED:	BRL

GENERAL NOTES, ABBREVIATONS AND LEGEND

SCALE: NO SCALE

G-002

WATER SYSTEM IMPROVEMENTS NOTES

1. PROPOSED WATER MAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S STANDARDS AS FOUND ON TOWN'S WEBSITE, AS SPECIFIED, AND AS SHOWN ON THE DRAWINGS. WHERE THERE IS A CONFLICT BETWEEN THE OWNER'S STANDARDS AND THE DRAWINGS AND SPECIFICATIONS, THE OWNER'S STANDARDS SHALL GOVERN.
2. HORIZONTAL AND VERTICAL LOCATION OF WATER MAINS MAY BE MODIFIED TO FIT EXISTING FIELD CONDITIONS, UPON APPROVAL OF THE ENGINEER.
3. MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN SHALL BE 5 FEET, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
4. ALL BELOW GRADE VALVES AND FITTINGS SHALL HAVE MECHANICAL JOINT (MJ) ENDS. RESTRAIN ALL VALVE AND FITTING JOINTS WITH RETAINER GLANDS AND CONCRETE THRUST BLOCKS.
5. WHERE A COUPLING IS CALLED FOR ON THE DRAWINGS TO CONNECT A PROPOSED WATER MAIN TO AN EXISTING WATER MAIN PROVIDE A SOLID SLEEVE, IF POSSIBLE. RESTRAIN SOLID SLEEVE TO PIPES WITH RETAINER GLANDS. IF OUTSIDE DIAMETER OF EXISTING WATER MAIN DOES NOT ALLOW INSTALLATION OF SOLID SLEEVE, PROVIDE RESTRAINING TYPE TRANSITION COUPLING.
6. SLEEVES, NIPPLES, AND ACCESSORIES NECESSARY FOR CONNECTION BETWEEN EXISTING AND PROPOSED PIPES MAY NOT BE SHOWN ON THE DRAWINGS. PROVIDE ITEMS NECESSARY FOR CONNECTING TO EXISTING MAINS AND MAKE CONNECTIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
7. RESTRAIN PIPE JOINTS IN ACCORDANCE WITH "MINIMUM RESTRAINED LENGTHS FOR DI PIPE" TABLE ON THE DRAWINGS.
8. MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE PROPOSED WATER MAIN AND ANY EXISTING OR PROPOSED SANITARY SEWER OR STORM DRAIN. WHEN CONDITIONS PREVENT THIS, A LESSER DISTANCE WILL BE ALLOWED IF: A.) THE WATER MAIN IS IN A SEPARATE TRENCH OR B.) THE PROPOSED WATER MAIN IS LOCATED IN THE SAME TRENCH TO ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH AT LEAST 12 INCHES, AND PREFERABLY 18 INCHES, HORIZONTAL SEPARATION BETWEEN THE EDGES OF THE SEWER/DRAIN PIPE AND THE WATER MAIN. IN EITHER CASE, THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES ABOVE THE CROWN OF THE SEWER/DRAIN PIPE.
9. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. IT IS PREFERRED THAT THE WATER MAIN CROSS ABOVE THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
10. WHERE THE PROPOSED WATER MAIN IS TO BE INSTALLED BELOW A DRAIN PIPE, MAINTAIN A MINIMUM OF 18 INCHES BETWEEN THE BOTTOM OF THE STORM DRAIN AND THE CROWN OF THE WATER MAIN.
11. OPERATION OF EXISTING VALVES SHALL BE BY THE WATER DISTRIBUTION SYSTEM OWNER, UNLESS OTHERWISE AUTHORIZED. COORDINATE OPERATION OF VALVES WITH THE WATER DISTRIBUTION SYSTEM OWNER.
12. THE WATER DISTRIBUTION SYSTEM OWNER DOES NOT GUARANTEE A TIGHT SHUTDOWN OF ITS EXISTING VALVES. THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF LEAKAGE AND DISPOSAL OF WATER UP TO 100 GALLONS PER MINUTE.
13. COORDINATE THE ACTIVATION AND DEACTIVATION OF WATER MAINS WITH THE WATER DISTRIBUTION SYSTEM OWNER.
14. WHERE WATER MAINS ARE BEING REPLACED, RECONNECT ALL EXISTING WATER SERVICES TO THE PROPOSED WATER MAINS, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UNINTERRUPTED WATER SERVICE TO ALL CUSTOMERS IN THE PROJECT AREA DURING CONSTRUCTION, UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER.
15. FOR EACH PROPOSED WATER SERVICE, PROVIDE NEW CORPORATION AT THE MAIN, NEW WATER SERVICE PIPING, AND NEW CURB STOP AND BOX. PROPOSED WATER SERVICES SHALL BE INSTALLED FROM THE PROPOSED WATER MAIN TO THE PROPERTY LINE FOR EACH PROPERTY IDENTIFIED AS REQUIRING A WATER SERVICE ON THE DRAWINGS. CONNECT PROPOSED WATER SERVICE TO EXISTING WATER SERVICE PIPING AT PROPERTY LINE. PROVIDE ALL COMPONENTS NECESSARY TO CONNECT PROPOSED WATER SERVICE TO EXISTING WATER SERVICE. EXISTING SERVICE PIPING TO BE ABANDONED SHALL BE CAPPED/CRIMPED ONCE SERVICE HAS BEEN TRANSFERRED TO THE NEW WATER MAIN.
16. THE SIZE OF THE PROPOSED WATER SERVICE TO A PROPERTY FROM THE PROPOSED WATER MAIN SHALL MATCH THE SIZE OF THE EXISTING WATER SERVICE FROM THE BUILDING ON THAT PROPERTY, UNLESS NOTED OTHERWISE.
17. WHERE A PROPOSED UTILITY CROSSES BELOW AN EXISTING ASBESTOS CEMENT (AC) WATER MAIN, IF ENCOUNTERED, REPLACE THE AC WATER MAIN ABOVE THE CROSSING AND 10 FEET ON EACH SIDE OF THE CROSSING WITH NEW DI PIPE. HANDLE, REMOVE, TRANSPORT AND DISPOSE OF AC PIPE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
18. REMOVE AND DISPOSE OF VALVE BOXES ON WATER MAIN TO BE ABANDONED, UNLESS DIRECTED OTHERWISE.
19. COVER EACH FIRE HYDRANT TAKEN OUT OF SERVICE WITH A NON-DEGRADABLE BAG SECURELY TIED. IMMEDIATELY NOTIFY FIRE DEPARTMENT WHEN HYDRANTS ARE TAKEN OUT OF SERVICE.
20. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SERVICES TO BUILDINGS ALONG THE PROJECT ROUTE. DAMAGED SERVICES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
21. NEW WATER MAIN CROSSINGS OF EXISTING UTILITIES ALONG PROJECT ROUTE MUST BE COMPLETED IN A MANNER THAT WILL NOT INTERRUPT UTILITY SERVICE. ENGINEER AND UTILITY OWNER APPROVAL MUST BE OBTAINED TO TEMPORARILY SHUT DOWN UTILITY.
22. FOR NEW SERVICES, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CORPORATION, COPPER TUBING, AND CURB STOP AND BOX AT LOCATION DESIGNATED BY ENGINEER. IN GENERAL, NEW SERVICES SHALL BE INSTALLED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING SERVICE. EXISTING SERVICE PIPING SHALL BE CAPPED ONCE SERVICE IS TRANSFERRED TO NEW WATER MAIN.
23. ALL ABANDONED WATER MAIN OPEN ENDS SHALL BE CAPPED WITH A CAST IRON CAP OR PLUG.
24. HORIZONTAL AND VERTICAL LOCATION OF WATER MAIN MAY BE MODIFIED TO FIT EXISTING FIELD CONDITIONS UPON APPROVAL OF THE ENGINEER OR OWNER.
25. SECURELY SUPPORT AND MAINTAIN EXISTING CATCH BASIN AND STORM DRAINAGE LINES DURING CONSTRUCTION. IF REMOVAL OR RESTORATION OF ANY PART OF THE STORM DRAINAGE SYSTEM IS NECESSARY, IT SHALL BE DONE ONLY WITH THE APPROVAL OF THE TOWN OF EASTON, AND SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF EASTON STANDARDS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND COST OF THIS WORK SHALL BE INCLUDED UNDER THE PRICES BID FOR VARIOUS ITEMS OF WORK.
26. ACCOMPLISH ALL EXCAVATION SO THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INCURRED DURING EXCAVATION OPERATIONS. REPAIR ANY EXISTING PIPE OR UTILITY DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
27. CONTRACTOR SHALL BE AWARE OF OVERHEAD UTILITIES AND MAKE THE NECESSARY ARRANGEMENTS TO PERFORM ANY WORK NEAR THE OVERHEAD UTILITIES, PRIOR TO THE START OF CONSTRUCTION.
28. EXISTING UTILITY POLES IN CLOSE PROXIMITY TO CONSTRUCTION MAY REQUIRE TEMPORARY SUPPORT BY THE UTILITY COMPANY. INCLUDE COST UNDER THE PRICES BID FOR VARIOUS ITEMS OF WORK.
29. SHEET UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE, AND FEDERAL HEALTH AND SAFETY CODES.
30. SLEEVES, NIPPLES, AND ACCESSORIES NECESSARY FOR CONNECTIONS BETWEEN EXISTING AND NEW PIPES MAY NOT BE SHOWN IN THE DETAILS. FURNISH AND INSTALL ITEMS NECESSARY FOR CONNECTING TO EXISTING MAINS AND AS INDICATED IN THE CONTRACT DOCUMENTS.
31. PROVIDE ALL DUCTILE IRON FITTINGS WITH MECHANICAL JOINTS AND MEGA-LUG TYPE RESTRAINING GLANDS. PROVIDE ALL BENDS, TEES, HYDRANTS, END CAPS, AND PLUGS WITH CONCRETE THRUST BLOCKS IN ADDITION TO MEGA-LUG TYPE RESTRAINING GLANDS AND ADEQUATE RESTRAINED JOINT PIPE PER THE DRAWING DETAIL OR AS DIRECTED BY THE ENGINEER.
32. REMOVE AND REPLACE FENCES, STONE WALLS, MAILBOXES, CURBING, ETC. AS NECESSARY. CONDITION OF REPLACED ITEMS SHALL BE EQUAL TO OR BETTER THAN ORIGINAL CONDITION PRIOR TO REMOVAL. INCLUDE COST UNDER THE PRICES BID FOR VARIOUS ITEMS OF WORK.
33. ALL TRENCHES SHALL BE BACKFILLED OR COVERED WITH STEEL PLATES OF SUFFICIENT SIZE TO PREVENT ACCESS TO ALL OPEN TRENCHES AT THE COMPLETION OF EACH DAY'S WORK. STEEL PLATES SHALL BE PINNED, OR SECURED BY OTHER MEANS, WITH ASPHALT RAMPING UP TO AND OVERLAPPING THE PLATES.
34. PROVIDE TO THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS WHEN WORKING IN THE ROAD. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. REFER TO TRAFFIC MANAGEMENT PLAN AND SECTION 01550.
35. IMMEDIATELY REPORT SPILLS OF OIL AND/OR HAZARDOUS MATERIALS (OHM) TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
36. NOTIFY THE OWNER AND THE ENGINEER OF ANY STORM, SANITARY, OR OTHER PIPE DISCOVERED DURING CONSTRUCTION THAT IS NOT SHOWN ON THE DRAWINGS.

WATER SYSTEM IMPROVEMENTS NOTES CONT'D

38. PROPOSED WATER MAIN SHALL CROSS UNDER EXISTING WATER MAIN, OVER EXISTING SEWER, AND UNDER EXISTING DRAIN UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED BY THE OWNER.
39. CONTRACTOR SHALL NOT OPERATE EXISTING WATER VALVES. ONLY OWNER SHALL OPERATE OWNER VALVES.
40. ANY WORK COMPLETED BEYOND THE PAY LIMITS IS AT THE COST OF THE CONTRACTOR.
41. ABANDON EXISTING WATER MAINS ONLY ONCE PROPOSED PERMANENT OR TEMPORARY WATER MAINS ARE INSTALLED, TESTED, AND ONLINE.
42. NEW HYDRANT LATERALS SHALL BE INSTALLED UNDER EXISTING WATER MAIN UNLESS APPROVED BY THE OWNER.
43. TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO ADJACENT AND NEARBY STRUCTURES, PAVEMENT, FENCING, GUARD RAIL, LANDSCAPING, AND SIDEWALKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ROADS, PUBLIC RIGHT OF WAYS, AND NEARBY PUBLIC AND PRIVATE PROPERTY FROM ANY SITE CONSTRUCTION/EQUIPMENT DAMAGE CAUSED BY THE CONTRACTOR'S EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT SEDIMENT AND TRACKED MUD/DIRT ONTO THE PUBLIC RIGHT OF WAY, ROAD OR ACROSS PRIVATE DRIVEWAYS. ALL DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. REMOVE AND STORE ANY CURB, FENCING OR OTHER ITEMS NEEDED TO BE REMOVED TO PERFORM THE WORK AND RETIRE TO THE ORIGINAL CONDITION AT THE COMPLETION OF ALL WORK. PERMANENT FENCING REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE ORIGINAL LOCATION AND CONDITION TO THE SATISFACTION OF THE PROPERTY OWNER.
44. UTILITIES THAT ARE NOT TO BE DEMOLISHED AND ARE EXPOSED DURING EXCAVATION SHALL BE SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES.

SURFACE RESTORATION NOTES

1. ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE FEBRUARY 2024 RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CONTRACT DOCUMENTS. EXISTING PAVEMENT AND CONCRETE ROADBASE THICKNESS SHALL BE MATCHED TO THE EXISTING PAVEMENT DEPTH.
2. PROVIDE SITE GRADING AT HANDICAPPED RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA), AND RIDOT STANDARD SPECIFICATIONS. SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
   - ACCESSIBLE PARKING STALL AND PASSENGER LOADING ZONE (ANY DIRECTION) SLOPE < 2.0%
   - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES < 5.0%
   - CROSS SLOPE ALONG ACCESSIBLE ROUTES < 2.0%
3. PROTECT PROJECT FEATURES (E.G., WALLS, FENCES, MAIL BOXES, SIGNS, SIDEWALKS, CURBING, STAIRS, WALKWAYS, TREES, ETC.) FROM DAMAGE DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY SUPPORTS, WHEN APPROPRIATE.
4. IF REMOVAL OF PROJECT FEATURES IS REQUIRED IN ORDER TO PERFORM THE PROPOSED WORK, REMOVE THOSE SITE FEATURES ONLY UPON APPROVAL OF ENGINEER. REPLACE ALL REMOVED PROJECT FEATURES; NEW ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND CONDITION TO THE ITEMS REMOVED.
5. EXISTING SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE STATE IN WHICH THE WORK IS PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
6. COORDINATE THE ADJUSTMENT OF EXISTING UTILITY STRUCTURES WITH EACH RESPONSIBLE UTILITY OWNER PRIOR TO RECONSTRUCTION AND/OR PAVING OPERATIONS. RAISE ALL STRUCTURES TO FINISHED GRADES PRIOR TO THE END OF THE CONSTRUCTION SEASON AND PRIOR TO FINISHED PAVING..
7. PLACE TEMPORARY BITUMINOUS CONCRETE PAVEMENT AT DISTURBED PORTLAND CEMENT CONCRETE SIDEWALKS AND DRIVEWAYS AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
8. TRANSFER ALL TEMPORARY BENCHMARKS, AS NECESSARY.
9. ACCOMMODATE PEDESTRIAN TRAFFIC WHERE A SIDEWALK IS TO BE CLOSED FOR SAFETY. "SIDEWALK CLOSED HERE" SIGNS SHALL BE USED AT THE NEAREST SAFE INTERSECTION. SEE TRAFFIC CONTROL DETAILS FOR SIGN INFORMATION.
10. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PAYLINE LIMITS TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
11. REGRADE ALL UNPAVED AREAS DISTURBED BY THE WORK AS REQUIRED. REPAIR/REPLACE PAVED SURFACES DISTURBED BY THE WORK IN-KIND, UNLESS OTHERWISE NOTED. RESTORE SURFACES TO EXISTING OR PROPOSED CONDITIONS AS INDICATED ON THE DRAWINGS.
12. PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS AND WALKING SURFACES.

TEMPORARY PAVEMENT RESTORATION NOTES

1. ALL ROADWAY RESTORATION SHALL CONFORM TO FEBRUARY 2024 RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR ROADWAY RESTORATION SPECIFICATIONS
2. PRIOR TO TRENCHING, PAVEMENT SHALL BE SAW-CUT TO FULL DEPTH OF PAVEMENT AND CONCRETE BASE IN STRAIGHT PARALLEL LINES AND RECTANGULAR IN SHAPE WITH AN ABRASIVE WHEEL POWER SAW, UNLESS OTHERWISE SPECIFIED.
3. TRENCHES SHALL BE BACKFILLED IN MAXIMUM ONE (1) FOOT LIFTS AND PLACE AT MINIMUM TWELVE (24) INCHES OF GRAVEL BASE COMPACTED TO RIDOT STANDARD SPECIFICATIONS.
6. RESTORATION OF ANY ALTERED ROADWAY SHALL TAKE PLACE AT THE END OF EACH WORK DAY AND SHALL INCLUDE A MINIMUM OF TWO (2) INCHES OF BITUMINOUS ASPHALT CONCRETE USING CLASS 4.75 OR CLASS 9.5 HOT MIX ASPHALT AND CONFORMING TO SECTION 410.03.2 OF RIDOT STANDARD SPECIFICATIONS TO KEEP THE ROADWAY SMOOTH AND BUMP FREE UNTIL PERMANENT RESTORATION CAN BE COMPLETED.
7. IN THE INSTANCE THAT INDUCTANCE TRAFFIC SIGNAL LOOP DETECTORS ARE DAMAGED BY OPERATIONS AND RENDERED NON-FUNCTIONAL, THE CONTRACTOR SHALL RESTORE PROPERLY OPERATING DETECTION WITHIN SEVENTY-TWO (72) HOURS IN ACCORDANCE TO RIDOT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
8. WORK AREA SHALL BE SWEPT AND IN CLEAN ORDER AT THE END OF EVERY WORK SHIFT.

FINAL PAVEMENT RESTORATION NOTES

1. ALL ROADWAY RESTORATION SHALL CONFORM TO FEBRUARY 2024 RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR ROADWAY RESTORATION SPECIFICATIONS.
2. FINAL BITUMINOUS CONCRETE TRENCH REPAIR SHALL INCLUDE FULL DEPTH SAW CUTTING AT ONE (1) FOOT CUTBACKS FROM ALL VERTICAL EDGES OF THE INITIAL WORK TRENCHES PRIOR TO INSTALLING PERMANENT PAVEMENT.
3. ENSURE ALL SURFACES ARE DRY AND CLEAN OF DEBRIS AND APPLY ASPHALT EMULSION TACK COAT TO ALL VERTICAL AND HORIZONTAL PAVEMENT SURFACES PRIOR TO PERMANENT PAVEMENT TRENCH RESTORATION CONFORMING TO SECTION 403.03.2 OF RIDOT STANDARD SPECIFICATIONS.
4. IF CONCRETE BASE IS PRESENT IN ROADWAY, THEN RESTORATION SHALL INCLUDE A MINIMUM OF EIGHT (8) INCHES OF CLASS XX CONCRETE SUBBASE DOWELS IN ACCORDANCE TO RIDOT STANDARD SPECIFICATIONS SECTION 819.
5. FULL DEPTH FINAL PAVEMENT STRUCTURE TRENCH SHALL BE IN PLACE FOR A MINIMUM OF THIRTY (30) CALENDAR DAYS, AND A MAXIMUM OF ONE (1) YEAR PRIOR TO FINAL PAVEMENT RESTORATION.
6. PERMANENT PAVEMENT RESTORATION SHALL INCLUDE:
   - 6.1. TWO (2) INCHES OF MICROMILLING AND RESURFACING ALL IMPACTED TRAVEL LANES WHERE AND/OR SHOULDERS IMPACTED BY WORK TRENCHES TO THEIR FULL WIDTH USING CLASS 9.5 OR 12.5 HOT MIX ASPHALT.
   - 6.2. PERMANENT PAVEMENT RESTORATION OF TRAVEL LANES AND/OR SHOULDER SHALL PROCEED WHEN TRENCHES ARE LESS THAN OR EQUAL TO ONE HUNDRED (100) FEET LONGITUDINAL FROM ONE ANOTHER, INCLUDING SECTIONS BETWEEN TRENCHES, SO THAT NO SECTION OF ROADWAY PAVEMENT LESS THAN OR EQUAL TO ONE HUNDRED (10) FEET SHALL REMAIN UNPAVED TO PROVIDE CONTINUOUS FINAL PAVEMENT BETWEEN WORK TRENCHES.
   - 6.3. ASPHALT EMULSION TACK COAT SHALL BE APPLIED TO CLEAN AND DRY VERTICAL AND HORIZONTAL PAVEMENT PRIOR TO FINAL RESURFACING.
   - 6.4. AFTER FINAL PAVING, AND BEFORE PERMANENT PAVEMENT, TEMPORARY WATERBORNE REFLECTORIZED PAVEMENT PARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS ORIGINAL MARKINGS ON ANY ROADWAYS OPENED TO TRAFFIC AT THE COMPLETION OF ANY DAY'S PAVING OPERATION.
   - 6.5. PERMANENT EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED NO LONGER THAN TWO (2) WEEKS BUT NO LATER THAN FOUR (4) WEEKS FROM COMPLETION OF THE PAVING OPERATION.

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BID SET

WARREN AVENUE & HIGHLAND AVENUE WATER LINE REPLACEMENT

Department of Public Works

East Providence, RI

MARK	DATE	DESCRIPTION
1	5/23/24	ADD #2
0	4/2/24	ISSUED FOR BID

PROJECT NO:	E0764-10
DATE:	APRIL 2024
FILE:	G-002 GENERAL NOTES AND LEGEND.dwg
DRAWN BY:	LMK
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APPROVED:	BRL

WATER SYSTEM, SURFACE, AND PAVEMENT RESTORATION NOTES

SCALE: NO SCALE

G-003

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