

ADDENDUM NO. 2

NOTICE is hereby given to prospective Bidders of the following information, clarifications, and modifications to the Bidding Documents. The Bidding Documents remain unchanged except for modifications specifically indicated under Modifications. Bidders must acknowledge receipt of this Addendum in the Bid Form and comply with the requirements for submission of Bids as set forth in the Bidding Documents.

BIDDER QUESTIONS & CORRESPONDING RESPONSES

The answers below are provided in response to questions and comments submitted by prospective Bidders.

1. *Question: Would you consider Quadex Structure Guard an approved epoxy coating per section 09 90 00 part 2.01?*
Answer: Quadex Structure Guard would fall under Specification Section 09 96 00. Contractor shall be responsible for supplying Independent Coating Inspector per Articles 1.05.D and 3.05. During construction submittal phase, applicator shall submit a minimum of 5 project references over the past 10 years for similar projects per Article 1.06. Coatings Manufacturer and Applicator would need to provide a 3-year warranty as described in Articles 1.09. A full lining system shall be provided as specified. Equivalent products found in Article 2.03 would be as follows:
 - a. Cementitious Repair Mortar - PrimeLiner EM (Epoxy Modified Mortar)
 - b. Epoxy Modified Cementitious Resurfacer - PrimeLiner EM
 - c. Topcoat for Concrete Substrate - Structure Guard
 - d. Epoxy Lining topcoat for metal surfaces within Oxidation Ditches – Vortex Equivalent - PE21
2. *Question: Is there a manufacturer and specification for the Scum Tank access hatch?*
Answer: Please refer to section 05 50 00 Paragraph 2.08 and section modification below.
3. *Question: Do all gates work for isolating yard piping?*
Answer: Operator noted that the oxidation ditch launder gates will sometimes let through a little water when first closed but will stop leaking within a day or two. Contractor shall be prepared to use redundant isolation for both the oxidation ditches and secondary clarifiers.
4. *Question: Specification states a schedule and work plan must be submitted with the bid. Can this requirement be met after the bid?*
Answer: A full detailed schedule / work plan is not required with the bid. Since this is a relatively complex sequencing project, bidders shall submit a brief schedule with the bid containing the following. This will not be used for bidder selection and will be used only for PWD planning purposes.
 - Notice to Proceed
 - Any proposed work prior to equipment on site
 - Mixers on site

- Clarifier equipment on site
- Primary mobilization date
- Substantial completion
- Final completion

5. *Question: Does the existing conduit and wiring need to be upgraded to meet classifications on E-00-102?*

Answer: No, we are not expecting to upgrade every conduit to meet the classification requirements unless they are specifically addressed in this design. If the components or conduits are being demoed and replaced, they shall meet the requirements of the project design and classification.

6. *Question: Please confirm that there are no Davis Bacon or similar wage rates that apply to this project.*

Answer: No, there are no Davis Bacon or similar wage rates requirements.

7. *Question: Please confirm that there are no AIS or BABA requirements for this project.*

Answer: No, there are no AIS or BABA requirements for this project.

8. *Question: Please confirm that any building or trade permit fees will be waived or paid by the owner.*

Answer: Any building or trade permit fees shall be initially paid by the contractor and shall be reimbursed by PWD. Contractors shall submit invoices or proof of payment to PWD for reimbursement.

9. *Question: Please provide boring logs for the area around the scum manhole and the aeration ditch.*

Answer: There is no geotechnical information available for this project.

10. *Question: Please confirm that no temporary facilities (trailers) are required for this project.*

Answer: Please refer to Addendum 1 for the answer to this question.

11. *Question: Are there any photos available for oxidation ditch walls to determine the thickness that will be needed for H₂S system application?*

Answer: Please refer to Section 09 97 24 Specialty H₂S lining for Concrete.

12. *Question: Is there a specification for 10-ft precast scum tank structure?*

Answer: Yes, please refer to Section 33 39 13 Sanitary Utilities Sewerage Manholes, Frames and Covers.

13. *Question: Please provide a schedule for the two clarifier door hardware.*

Answer: The intent is to replace hinges, barrel bolt, and eye bolt at each door. Products shall be field verified to match existing configuration, and materials shall be stainless steel. For bid purposes assume each door has:

(3) 4.5" tall hinges, five knuckle, ball bearing, with non-removable pins, commercial or heavy-duty grade

- (1) Extra Heavy Duty Gate Barrel Bolt, with pad-lock hasp feature for locking
- (1) eye-bolt with (2) large fender washers for accepting hold-open cable adjacent to each door

14. *Question: Is there knowledge of ledge depths at the site?*

Answer: The 2020 UV project on site encountered several CY of ledge requiring removal with a hoe ram. A unit price bid item has been added to cover the possibility of encountering ledge.

15. *Question: Is there any knowledge of groundwater depths at the site?*

Answer: Geotechnical information is not available for this project. The 2020 UV project did not encounter abnormal groundwater in excavations roughly 15 feet deep. Refer to Specification 01 50 00 for dewatering requirements.

16. *Question: Are existing UGETC duct banks encased or capped with concrete?*

Answer: Underground surveys for existing duct banks was not performed. However, record drawings for the previous UV project and the original plant record drawings indicate the existing duct banks are concrete encased.

17. *Question: Assuming the UGETC is at the same depth as the proposed, will the proposed duct need to be run underneath the existing?*

Answer: Record drawings indicate 2'-0" of cover over existing duct banks. New plan drawings indicate a minimum of 30" of cover over new duct banks. Contractor shall perform test pits in accordance with the drawings and specs to identify actual existing duct bank depths and routing. New duct banks shall be field routed in accordance with drawings. That may require installing under existing duct banks. Where conduits enter existing manhole/handhole structures, depths may be reduced for conduit cores and penetrations. Where coverage of new duct banks is reduced additional concrete caps may be used to meet the requirements of NEC 300.7.

18. *Question: What is the psi requirements for grout for structure base?*

Answer: Grouts shall be as specified in Section 03 16 00 Article 2.02. Minimum compressive strength at 28-days shall be 6,500 psi

19. *Question: Process pipe section references section 15050, there is not a section 15050. I am trying to figure out the type of bolts required for flanged piping, carbon steel, 304 ss, 316ss? And where each is used.*

Answer: Refer to 40 05 13 Paragraph 2.09 for Attachment Hardware.

20. *Question: Can the clarifier specification be deviated in the following two areas?*

- a. *2.05 Drive Unit – We request the following be allowed for the drive unit to be acceptable as it has for previous Woodard and Curran Projects:*
 - i. *Planetary intermediate reducer*
 - ii. *No lower bearing*
- b. *2.10 Energy Dissipating Inlet – We request EDI's that impart a tangential flow into the feedwell be allowed, with 3D CFD results to show the efficacy of our design*

Answer: a) Planetary intermediate reducer is acceptable. Refer to modification below.

b) Per specification, EDI designs which impart circulation within the tank are not acceptable.

21. *Question: It is unclear how this 16" pipe influent pipe connects to the feedwell and EDI. It is also unusual to see an EDI in a bridge mounted clarifier. The EDI is called out in the spec but not shown in the drawing. Also, it is unclear how the standard skimming mechanism called out in the spec would work with this influent pipe design.*

Answer: Provide mid-depth influent pipe, centerwell, EDI, and skimmer arms per specification.

22. *Question: Is there a Bid Item for trash/screening?*

Answer: Please refer to the Section modification below.

23. *Question: Section 465116 lists WesTech as an acceptable manufacturer. The same section calls for an aerator with a lower impeller which WesTech does not make. Please clarify?*

Answer: Refer to Addendum 1 for the answer to this question.

24. *Question: Are both clarifiers in operational condition?*

Answer: Yes, both clarifiers turn and operate. No modifications to the proposed construction sequence are necessary.

25. *Question: Plan view S-02-102 states to install two new hatches but only one is shown. S-02-101 states provide new scum pit. Other notes state to provide new lid and to patch existing joint which indicates we are only installing a new flat top on the existing precast. Please clarify.*

Answer: Entire scum pit shall be a new precast structure with one hatch. See keynote E03 on S-02-102 for loads lid is required to support.

26. *Question: Square foot quantity for the coatings needs to be updated from 8,000 sf to 12,000 sf.*

Answer: Please refer to Bid Form in Attachment A of this addendum.

MODIFICATIONS

NOTICE is hereby given that the Bidding Documents have been modified as follows.

Sections are modified as follows. Replacement pages are not being issued.

Section Modified	On Page(s)	Modification
05 50 00 - Access Hatch Covers	05 50 00 – 12	Revised 2.08 Aluminum Hatch Covers <ul style="list-style-type: none"> A. Manufacturers: Bilco Company, Halliday Products, Inc., Babcock-Davis, Access Systems USA, or approved equal. D. Style: As per Access Systems USA Submittal Drawing – FSP47.5x47.5 <ul style="list-style-type: none"> 1. Type FSP single leaf, heavy duty top hung frame with integral four-sided safety barricade system. <ul style="list-style-type: none"> i. Hatch to comply with ATSM C 1802, class 2 in the folded down position, load rated for 300 lbs per square foot. ii. Door leaf: ¼-inch thick diamond pattern grade 5052-H114 aluminum iii. Captive continuous hinge with double knuckle iv. Automatic hold open arm v. External frame: Heavy duty top hung frame with captive rubber seal and curved outer profile for flush mounting to minimize trip hazards. vi. All hardware to be 316 stainless steel vii. Hatch to be capable of locking with a padlock in the closed position. E. Integral Barricade system <ul style="list-style-type: none"> 1. Hatch to be equipped with fall arrestor system that folds up into an integral barricade, aluminum construction with 316 stainless hardware. <ul style="list-style-type: none"> i. Minimum handrail height to be 39 inches ii. Handrail to withstand 200 pounds force applied downwards and horizontally. iii. Handrail/fall arrestor to fold up within the hatch in the closed position.

		iv. Handrail/fall arrestor to be powder coated in safety orange or yellow
46 43 21 Circular Clarifier Equipment	46 43 21-11	Under 2.05 K. add “6. Planetary intermediate reducer is acceptable. Planetary reducer shall meet all specified design requirements including torque rating and fatigue life.”

The following section(s) are **reissued** herewith in their entirety, have an Issue Date of April 3, 2026, and contain(s) reference to Addendum No. 2 in the footer.

Reissued Sections	Number of Pages
00 41 01 Bid Form	8
01 20 25 Measurement & Payment	8

This Addendum and items listed above are provided to Bidders in Portable Document Format (.PDF) via the District’s purchasing website.

Prepared and Issued by Woodard & Curran (Engineer) on behalf of Owner:

Portland Water District
 225 Douglas St.
 Portland, ME 04102

ATTACHMENT A - 00 41 01 BID FORM

SECTION 00 41 01

BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

**PORTLAND WATER DISTRICT
225 DOUGLAS STREET
PO BOX 3553
PORTLAND, ME 04104-3553
ATTN: WESLEY GILBERT, PURCHASING AGENT**

1.02 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—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
- C. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
- D. Bidder's Representation and Certifications;
- E. Required Bidder Qualification Statement with supporting data.
- F. Schedule and Work Plan

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

3.01 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the following lump sum (stipulated) price(s) EXCLUDING SALES AND USE TAX.

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Item Bid Amount
1	Mobilization	LS	1	\$	\$
2	Secondary Clarifier and Oxidation Ditch Upgrades	LS	1	\$	\$
3	Grit, Trash, & Rags Removal & Disposal	CY	100	\$	\$
4	Type 'A1' – Non-H2S Shallow Concrete Spall Repair	SF	90	\$	\$
5	Type 'A2' – Non-H2S Deep Concrete Spall Repair	SF	200	\$	\$
6	Type 'B1' – H2S Shallow Concrete Spall Repair	SF	50	\$	\$
7	Type 'B2' – H2S Deep Concrete Spall Repair	SF	50	\$	\$
8	Type D – Crack Rout & Seal	LF	50	\$	\$
9	Type E – Urethane Crack Injection	LF	100	\$	\$
10	Oxidation Ditch H2S Coating	SF	12,000	\$	\$

11	Bituminous Paving	SY	320	\$	\$
12	Testing Allowance	ALLOW	1	\$ 20,000	\$ 20,000
13	Test pits	EA	30	\$	\$
14	Rock Excavation	CY	5	\$	\$
	TOTAL LUMP SUM BID PRICE				\$

B. Bidder acknowledges that:

1. each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor’s overhead and profit for each separately identified item, and
2. estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 4—TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete and will be 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.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

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

5.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

5.04 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:
 - 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 - 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 - 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 - 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 - 6. 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 the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 - 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 - 8. 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.
 - 9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
 - 10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

5.05 *Bidder's Certifications*

A. The Bidder certifies the following:

1. 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.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 5.05.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything 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 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.
 - 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.
5. **Bidder acknowledges the representations and certifications included in Section 00 45 05 are made a condition of the Bid.**

ARTICLE 6—COMMUNICATIONS

6.01 Communications concerning this Bid shall be addressed to the Bidder's representative as follows:

Name _____

Title: _____

Business Address: _____

Telephone Number: _____ E-mail address: _____

BIDDER hereby submits this Bid as set forth above as of _____ (date):

Bidder:

(typed or printed name of organization)

By: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: (if applicable) _____

END OF SECTION

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**ATTACHMENT B - 01 20 25
MEASUREMENT & PAYMENT**

SECTION 01 20 25

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the measurement and payment for the Work to be completed under each item in Section 00 41 01 Bid, which may also be referred to as “Pay Item”.
- B. Payment procedures are in accordance with the Agreement, Article 15 of the General Conditions, the Supplementary Conditions (if any), and the General Requirements.
- C. Measurement: as determined, verified, or approved by Engineer or Owner in accordance with Paragraph 10.05 of the General Conditions, the Supplementary Conditions (if any), and the General Requirements, except as otherwise specified.
- D. The Work described in each Pay Item shall be as described in the Specifications and shown on the Drawings and not included in other Pay Items.
 - 1. Pay Item descriptions are general and may not specifically describe all associated Work or elements thereof, do not constitute Specifications, and do not supersede the content of the Specifications and Drawings.
 - 2. Review the Specifications and Drawings for Work associated with each Pay Item. Claims for being unfamiliar with the content of the Specifications and Drawings will not be considered.
- E. The following Work is not specifically described or designated as a Pay Item, is considered incidental to all Pay Items, and shall not be measured separately for payment.
 - 1. Division 01 General Requirements EXCEPT those items included in Mobilization/Demobilization and included as separate Pay Items.
 - 2. Maintaining existing plant operations
 - 3. Materials, equipment, and services necessary to verify existing field conditions and the location, size, type, material, and orientation of existing pipes and utilities shown on the Drawings excluding test pits. Test pits which are specifically called for on the Drawings or as directed by the Engineer shall be paid for as indicated.
 - 4. Restoration of all areas disturbed by the Contractor within the limits of Work, including planting.

5. Field and laboratory testing and reporting by independent laboratory, including but not limited to compaction of backfill materials; aggregate gradation; and concrete testing
- F. Payment will not be made for restoration of areas disturbed by the Contractor outside the limits of Work.
- G. Payment will only be made for those utility services, including water and fire services, specifically identified for replacement on the Drawings. Relocation or replacement for the Contractor's convenience or due to breakage by the Contractor of any other utility services shown on the Drawings, or at locations which could reasonably be assumed, shall be at no cost to Owner.
- H. Design, installation and removal of excavation support systems, temporary and permanent utility/structure support systems associated with a Pay Item shall be considered incidental to that Pay Item.
- I. Additional dewatering and erosion control (including installation, operation, maintenance, removal and off-Site disposal of erosion control devices) associated with a Pay Item shall be considered incidental to that Pay Item.
- J. Layout of new Work and survey associated with layout shall be incidental to that pay item.
- K. Pay Items identified as a Contingency Allowance will be processed per *Article 13.02* of the General Conditions and Supplementary Conditions.

1.02 MEASUREMENT AND PAYMENT BASIS

ITEM 1: Mobilization	
Measurement	Portion of Work completed and accepted
Payment	Lump Sum (LS)
Schedule of Payment	75% at Project commencement - 25% at Substantial Completion
<p>Includes delivery to and removal of equipment from the Project Site, temporary utilities, facilities and controls, obtaining necessary permits including associated fees, insurance and bond costs, signage, development of pre-construction schedules and plans required by the General Conditions, Supplementary Conditions and General Requirements; necessary pre-construction investigations, verifying existing field conditions, coordination, and Site clean-up, restoration and closeout.</p>	

ITEM 2: Secondary Clarifier and Oxidation Ditch Upgrades	
Measurement	Portion of Work completed and accepted
Payment	Lump Sum (LS)
Schedule of Payment	Monthly based on progress of Work
<p>All materials, equipment, services, and construction inherent to the Work at the Wastewater Treatment Facility which is not included in other bid items. Includes demolition, bypass pumping, site work, paving, earthwork, concrete, masonry, carpentry, process piping and equipment, plumbing, HVAC, electrical, controls, testing and startup.</p>	

ITEM 3: Grit, Trash, & Rags Removal & Disposal	
Measurement	As encountered and directed by the Engineer
Payment	Unit per Cubic Yard (CY)
Schedule of Payment	Monthly based on total cubic yards removed and disposed of
<p>All material, equipment, services, and construction inherent to the Work. Includes removal, hauling, and lawful disposal of grit in tanks and structures of the Project Site locations prior to commencement of selective demolition or new Work. Item shall be based on a typical unit weight of grit of 120 lbs/ft³. Includes removal, hauling, and lawful disposal of trash and rags in tanks and structures of the Project Site.</p>	

ITEM 4: Type ‘A1’ – Non-H2S Shallow Concrete Spall Repair	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Square Foot (SF)
Schedule of Payment	Monthly based on total square feet repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, repair compounds, bonding agents, patching, curing and finishing in accordance with Specification 03 01 05 – CONCRETE REPAIR and Sheets S-00-002 and S-00-003 of the Drawings. Pay item shall be for Concrete Spall Repair of existing concrete surfaces only. Spall repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM 5: Type ‘A2’ – Non-H2S Deep Concrete Spall Repair	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Square Foot (SF)
Schedule of Payment	Monthly based on total square feet repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, repair compounds, bonding agents, patching, curing and finishing in accordance with Specification 03 01 05 – CONCRETE REPAIR and Sheets S-00-002 and S-00-003 of the Drawings. Pay item shall be for Concrete Spall Repair of existing concrete surfaces only. Spall repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM #6: Type ‘B1’ – H2S Shallow Concrete Spall Repair	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Square Foot (SF)
Schedule of Payment	Monthly – based on total square feet repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, repair compounds, bonding agents, patching, curing and finishing in accordance with Specification Section 03 01 05 – Concrete Repair and Sheets S-00-002 and S-00-003 of the Drawings. Pay item shall be for Concrete Spall Repair of existing concrete surfaces only. Spall repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM #7: Type 'B2' – H2S Deep Concrete Spall Repair	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Square Foot (SF)
Schedule of Payment	Monthly – based on total square feet repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, repair compounds, bonding agents, patching, curing and finishing in accordance with Specification Section 03 01 05 – Concrete Repair and Sheets S-00-002 and S-00-003 of the Drawings. Pay item shall be for Concrete Spall Repair of existing concrete surfaces only. Spall repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM #8: TYPE 'D' – Crack Rout & Seal	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Linear Foot
Schedule of Payment	Monthly based on total linear feet of repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, bonding agents, crack sealing, surface patching, curing and finishing in accordance with Sheet Sheets S-00-002 and S-00--003 of the Drawings. Pay item shall be for crack repair of existing concrete surfaces only. Crack repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM #9: TYPE 'E' – URETHANE GROUT INJECTION	
Measurement	As encountered and as directed by the Engineer
Payment	Unit price per Linear Foot
Schedule of Payment	Monthly based on total linear feet of repaired
<p>All materials, equipment, services, and construction inherent to the Work. Includes cutting, chipping, surface preparation, bonding agents, crack injection grouting, surface patching, curing and finishing in accordance with Specification 03 64 10 – Injection Grouting and Sheet Sheets S-00-002 and S-00-003 of the Drawings. Pay item shall be for Polyurethane Injection Grouting of existing concrete surfaces only. Crack repair of newly constructed concrete included in this Project shall be incidental to all pay items and shall not be eligible for payment under this pay item.</p>	

ITEM #10: OXIDATION DITCH H2S COATING	
Measurement	Per square foot in place
Payment	Unit price per square foot
Schedule of Payment	Monthly based on total square feet of concrete repair completed
<p>Material and equipment, services, installation, construction and testing inherent to the Work for repair the concrete wet well southerly interior walls including: field verification of dimensions; obtaining necessary permits; proper product installation, necessary equipment, monitoring and labor as required to comply with all regulations for confined space entry; weather protection, heating, dehumidification and temperature maintenance; detailed cleaning and surface preparation. In accordance with Specification 09 97 24 and Sheet S-00-003 of the Drawings.</p>	

ITEM #11: BITUMINUOUS PAVEMENT	
Measurement	In place prior to excavation within the pay limits as specified and as indicated on the Drawings. Square Yard (SY) based on on the paved area.
Payment	Unit price per Square Yard (SY)
Schedule of Payment	Monthly – based on total square yards installed
<p>All materials, equipment, services, and construction inherent to the Work. Includes shimming, fine grading, asphalt tack coat, base and sub-base below pavement, bituminous binder course, bituminous surface course, pavement markings, compaction, testing and adjusting all frames, covers and valve boxes and matching into existing driveways and side roads.</p>	

ITEM #12: TESTING ALLOWANCE	
Measurement	Submit bills from testing firms
Payment	Allowance (AL) – Actual costs incurred
Schedule of Payment	Monthly based on actual costs incurred
<p>All materials, equipment, services, and construction inherent to the Work. Includes testing costs, such as field density testing, field concrete testing, pavement core and plane testing, etc., that are specified shall be paid for by the Contractor using the allowance in this item. All items specified to be the Owner’s responsibility shall also be included under this item. All testing costs shall be billed directly to the Contractor, and a final Change Order will be issues balancing the actual testing costs. Only tests meeting the Contract Document requirements will be paid.</p>	

ITEM #13: TEST PITS	
Measurement	Each Installed
Payment	Unit Price per Each (EA)
Schedule of Payment	Payment will be made based on actual number of test pits required and with prior approval of Engineer.
All materials, equipment, services, and construction inherent to the Work. Includes, excavation, bedding, backfill, shoring and bracing, compaction, surface restoration, survey of location, size and confirmation of elevation and horizontal locations of existing below grade pipe, utility or structure, and determination of potential conflicts with pipe, utilities, or structures. Payment will be made based on actual material encountered in the field and approved by Engineer. Quantity encountered may differ from quantity indicated in the Bid Form.	

ITEM #14: ROCK EXCAVATION	
Measurement	As encountered in place prior to excavation within the pay limits as specified
Payment	Unit price per Cubic Yard (CY)
Schedule of Payment	Monthly – based on total cubic yard excavated
Includes all materials, equipment, services and construction inherent to the Work. Includes removal, transport and disposal of ledge, rock, and boulders. Payment will be made based on actual material encountered in the field and approved by Engineer. Quantity encountered may differ from quantity indicated in the Bid Form.	

PART 2 - PRODUCTS (not used)

PART 3 – EXECUTION (not used)

END OF SECTION

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