

**ADDENDUM NUMBER 2**

<u>PROJECT</u>	<u>BIDS DUE</u>
Charter Township of Union CWSRF Project 5913-01 2026 Wastewater Treatment Facility Upgrades GFA Project No: 25357	Date: June 23, 2026 Time: 10:00 AM Location: Charter Township of Union 5228 South Isabella Rd Mt Pleasant, MI 48858

The Addendum is issued prior to the receipt of bid proposals to amend the Contract Documents as follows. Bidders shall acknowledge receipt of this addendum by means of acknowledging on Page 1 of the Bid Form (EJCDC C-410).

**CLARIFICATIONS**

1. Raw Wastewater Pump Removal and Replacement Specification and Drawing Clarification: To supplement Addendum No.1, photos of the existing conditions of the channel and status of the existing grout based upon recent maintenance performed showing areas of pitting and spalling.



**SPECIFICATIONS / DRAWINGS**

SPECIFICATIONS

1. C-440 Bid Tab shall be stricken in its entirety and replaced with the attached to provide for further clarifications and pipe size changes to line items as follows:
  - Item No. 6 Asphalt Drive Removal & Replacement: increase in quantity to extend to East River Road including approach
  - Item No. 13 Effluent Pipe change in diameter.

2. Specification 01270 Measurement and Payment shall be stricken in its entirety and replaced with attached to provide additional clarifications and modifications related to Sludge Storage Tank and Electrical, Controls, Wiring & Conduit, asphalt drive removal / replacement, trolley system, earthwork, and Decant Effluent Pipe pay item clarifications.
3. Specification 03300 shall have the following sections stricken and replaced with the respective below to be incorporated into the bid documents

- Section 2.2.A. - Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed and epoxy coated.
- Section 2.4.B.1.

Proportion normal-weight concrete mixture to meet the following:

1. Minimum Compressive Strength at 28 days:

- a. 4000 psi for concrete base slab, foundation / footings.
- b. 4000 psi for all other concrete cast in place on site unless noted in plans or specifications as required by the manufacturer

- Section 2.3.F. shall be added and incorporated into the bid documents:  
2.3.F. Xypex Crystalline Technology shall be included as an admixture for all cast in place concrete associated with the sludge storage tank. Minimum dosage Xypex C-1000 at 15 lb/yd<sup>3</sup>.

4. Specification 03151 shall have the following sections stricken and replaced with the respective below to be incorporated into the bid documents

- Section 1.02.B. – Precast Concrete Storage Tanks: Section 13215

5. Specification 13215 shall have the following sections stricken and replaced with the respective below to be incorporated into the bid documents

## 2.05 ACCESSORIES –

### A. Access Covers:

1. Pump-Out Areas: Halliday, double leaf, 72” by 48” max, Model No. S2R7248 or Engineer approved equal, rated for 150 psf. Access doors to be hinged on 72” side.
2. Other Access Hatches: Halliday, single leaf, 24” by 24” max, Model No. S1R2424 or Engineer approved equal.

B. Wall Castings: Ductile iron as indicated.

C. Floor Boxes: Trumbull Item No. 367-4620 or Engineer approved equal.

D. Floor Type Hydrostatic Pressure Relief Valve: 4” valve as manufactured by Kennedy Valve or approved equal. Valve shall conform to ASTM A-126, Class B.

E. Carbon Canisters: EcoVerde Technologies EG-CDS carbon adsorber system. or approved equal, effective size of 0.55-0.75 mm.

1. Externally Braced 6” Turbine Ventilator to be provided. Passive ventilation (not electrically operated)

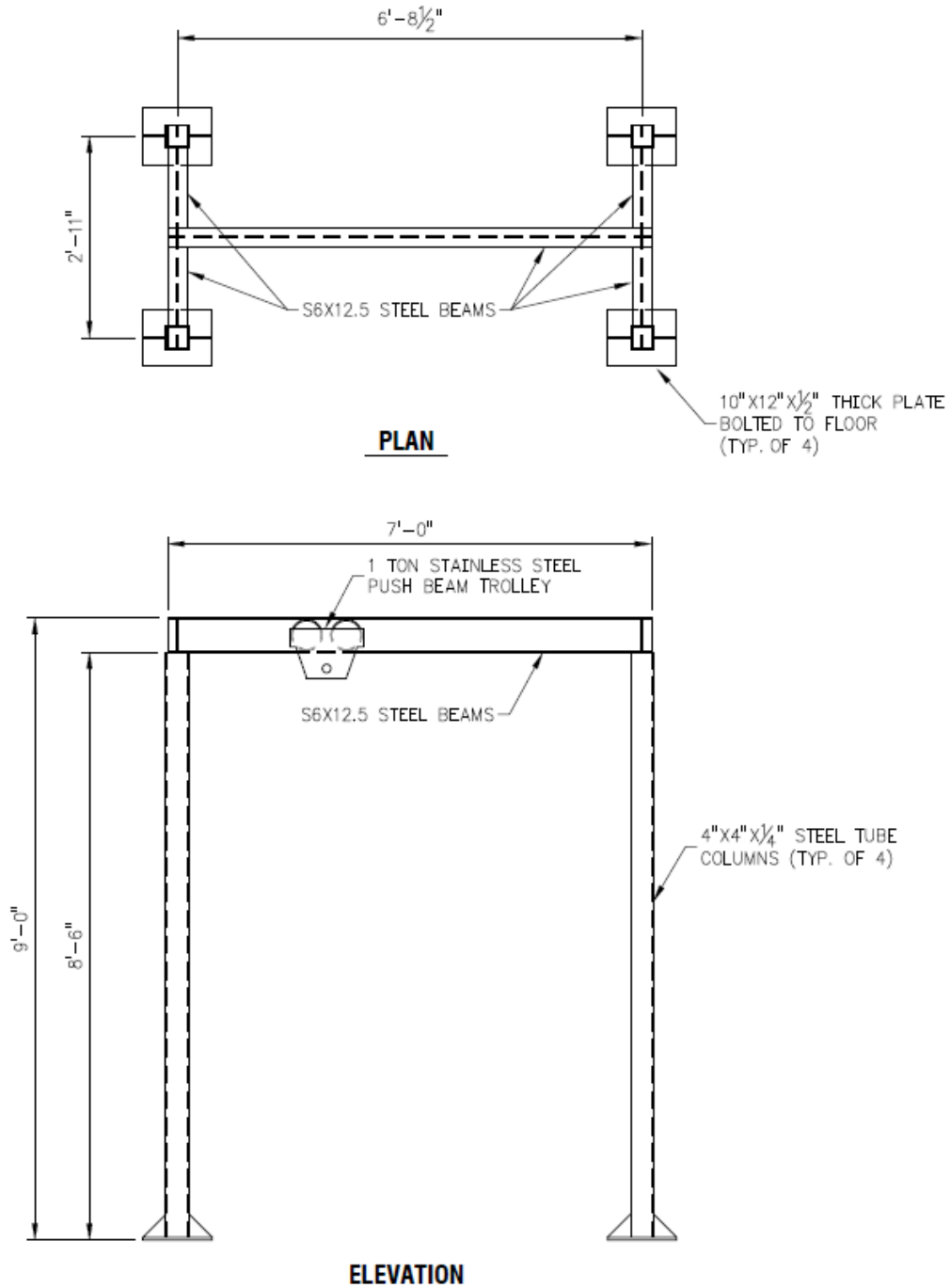
F. Level Transmitter: Radar Level Transmitter as manufactured by Vega, Model No. VEGAPLUS C 21 or approved equal. Remote readout to be VEGADIS 82

including 4-20mA connections. To be provided with all wiring, connections, applicable mounting strap and anchorage.

6. Supplemental Specification 13215, Environmental Sales, Inc. Scope of Services shall have the following sections stricken and replaced with the respective below to be incorporated into the bid documents
  - Items 1 thru 5 associated with **Items to be furnished by Union Township** shall be fully stricken from the bid documents. Contractor shall refer to Bid documents.
  - Item K.: 2- EcoVerde Technologies EG-CDS carbon adsorber system. or equal, furnish and install with WW Grainger turbine exhaust ventilator 6" -147 CFM Item #2C528 mounted on top of carbon canister.
  - All reference to Bitumastic coating shall be stricken and replaced with CIM 1000

## DRAWINGS

1. Sheets C2.3 and S1.1 Clarifications:
  - Sludge Storage Tank Decant Effluent Pipe size is 6" and NOT 8". This modification shall be incorporated into the bid documents. Effluent pipe to tie into existing sanitary sewer shall be performed utilizing a wye connection in compliance with Union Township Standard Specifications Section 7.
  - Contractor shall be responsible to remove and replace asphalt access drive to limits shown on drawing and extending to the entrance at East River Road as coordinated with Township and Engineer. Final limits shall be determined after completion of sludge storage tank construction with field determination as coordinated with Township and Engineer. Costs shall include maintaining existing drive during construction to provide access including supply and installation of gravel and reconstruction of driveway compliant with paving detail on Sheet C2.4 including sand subbase, gravel and asphalt.
2. Sheets S2.2 and S2.3- any reference to bitumastic coating to be stricken and replaced with CIM 1000.
3. Sheet PM2.2 Headworks Building Proposed Mechanical Plan: The following detail shall be incorporated into the drawing sheet as reflected in the bid documents for Permanent Trolley System – Bid Item No. 32. Location of system shall be coordinated with Township and Engineer. Details are provided for bidding purposes. Contractor shall be responsible for verifying existing site conditions for compatibility and shall provide any proposed modifications for review and approval prior to fabricating.



**1**  
**PM2.2**

**SCREEN LIFT SYSTEM DETAIL**

SCALE: 1/2" = 1'-0"

This Addendum No. 2 becomes part of the Contract Documents as of this date and supersedes the information in the originally issued Contract Documents where applicable. The Contractor shall acknowledge receipt of the Addendum in the Bid Schedule included with his/her bid.

# 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: **Charter Township of Union, 5228 South Isabella Road, Mt Pleasant, MI 48858**
- 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. List of Proposed Subcontractors;
  - C. List of Proposed Suppliers;
  - D. 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;
  - E. 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;
  - F. Required Bidder Qualification Statement with supporting data; and
  - G. C-451 – Bidders Experience Form**
  - H. Certification Regarding Debarment, Suspension, & Other Responsibility Matters**

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

- 3.01 **Deleted**
- 3.02 *Unit Price Bids*
  - A. Bidder will perform the following Work at the indicated unit prices:

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
<b>GENERAL</b>					
1	Mobilization, Max 5%	LS	1	\$	\$
2	SESC Controls, Including Silt Fence	LS	1	\$	\$
3	Temporary Construction Fencing	LS	1	\$	\$
4	Site Excavation & Grading	LS	1	\$	\$
5	Perimeter Fence Removal & Relocation	LS	1	\$	\$
6	Asphalt Drive Removal & Replacement	SF	19,500	\$	\$
7	SCADA Allowance	LS	1	\$95,000.00	\$95,000.00
8	Restoration	LS	1	\$	\$
<b>SLUDGE STORAGE TANK</b>					
9	Precast Sludge Storage Tank	LS	1	\$	\$
10	Sludge Storage Tank Foundation	LS	1	\$	\$
11	Earthwork	LS	1	\$	\$
12	Dewatering	LS	1	\$	\$
13	6" SDR 35, Effluent Pipe	LF	15	\$	\$
14	6" D.I. Influent Pipe, Including Valves	LF	175	\$	\$
15	Sanitary Sewer Abandonment	LS	1	\$	\$
16	6" Underdrain System, Including Clean-Outs	LS	1	\$	\$
17	Electrical, Controls, Wiring, & Conduit	LS	1	\$	\$
<b>RAW WASTEWATER PUMP</b>					
18	Demolition & Removals	LS	1	\$	\$
19	Raw Wastewater Pump Channel Preparation, Including Grout & Coating	EA	2	\$	\$
20	48" Raw Wastewater Pump Screw Weldment Removal & Replacement	EA	2	\$	\$
21	Upper & Lower Bearing Assembly Removal & Replacement	EA	2	\$	\$
22	Grease Pump / Lubrication System Removal & Replacement	EA	2	\$	\$
23	Upper Drive Shaft Weldment Removal & Replacement	EA	2	\$	\$
24	Adhesive Anchorage Removal & Replacement	LS	1	\$	\$
25	Belt and Sheave Set	EA	2	\$	\$
26	Spare Bearing Seal Sets, Upper & Lower	EA	2	\$	\$
27	Electrical Modifications	LS	1	\$	\$
<b>MECHANICAL FINE SCREEN</b>					
28	Emergency Bypass Channel Modifications	LS	1	\$	\$
29	Mechanical Fine Screen	EA	1	\$	\$
30	Washer Compactor Unit w/ Discharge Chute	EA	1	\$	\$
31	Plumbing Modifications	LS	1	\$	\$
32	Permanent Trolley – Screen Lift	LS	1	\$	\$
33	Electrical, Controls, Wiring & Conduit	LS	1	\$	\$
34	HVAC Modifications	LS	1	\$	\$
Total of All Unit Price Bid Items					\$

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—DELETED**

**ARTICLE 5—DELETED**

**ARTICLE 6—TIME OF COMPLETION**

6.01 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 days indicated in the Agreement.

6.02 **Deleted**

6.03 **Deleted**

6.04 Bidder accepts the provisions of the Agreement as to liquidated damages.

**ARTICLE 7—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA**

7.01 *Bid Acceptance Period*

- A. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

7.02 *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.

7.03 *Receipt of Addenda*

*Bidder hereby acknowledges receipt of the following Addenda:*

**Bidders are responsible to research Addendums and Acknowledge Addendums on the Bid form. Addendums will be posted, at least three (3) days prior to Bid Opening, on the GFA website at [www.gfa.tc](http://www.gfa.tc), go into the Project Center, Advertisements for Bids, then select the appropriate Project. Failure of any Bidder to obtain any such addendum or interpretation shall not relieve such Bidder from any obligation under his Bids as submitted. All Addendas, so issued, shall become part of the Contract Documents.**

Addendum Number	Addendum Date

**ARTICLE 8—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS**

8.01 *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.

#### 8.02 *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 8.02.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.

BIDDER hereby submits this Bid as set forth above:

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) \_\_\_\_\_

## SECTION 01270 – MEASUREMENT AND PAYMENT

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Bid price includes all labor, tools, equipment, materials, transportation, testing, permits and applicable fees, and all accessories and related work not paid for separately in order to complete the installation according to the plans and specifications.
- B. All measurement and payment will be based on completed work, ready for use, performed in strict accordance with the Plans and Specifications.
- C. Owner reserves the right to delete and / or adjust any line item or quantity on the BID FORM.
- D. All work shall conform to all applicable OSHA standards.
- E. Owner reserves the right to delete divisions from this contract.

#### 1.02 APPLICATION FOR PAYMENT

- A. Pay period: Begins on the 1st of the month and continues through the end of the following month. Contractor shall submit payment application on the 25<sup>th</sup> of the following month.
- B. Payment requests shall be submitted on the forms included in the Bid Documents.

#### 1.04 PAY ITEM DESCRIPTIONS

##### **SITE WORK**

1. Mobilization, Max 5%: The completed work for mobilization will be paid for at the contract lump sum (LS) price. This payment shall be payment in full for equipment and material delivery, transportation and storage, temporary facilities, power supply, water permits and usage fees, bonds, insurances, permits and fees, all coordination with the Township, Engineers, Regulatory Agencies, utility companies and all other labor and materials.
2. SESC Controls, Including Silt Fence: The completed work for soil erosion and control will be paid for at the contract lump sum (LS) price. Payment shall include, but not limited to, all labor, equipment and materials to install erosion control silt fencing, fabric inlet protection, gravel construction accesses, street sweeping and other temporary measures as mandated by the State and Township and as shown on the plans or as required by the Engineer.
3. Temporary Construction Fencing: The completed work for Temporary Construction Fencing will be paid for at the contract lump sum (LS) price. Payment shall include, but not be limited to, all excavation, clearing and grubbing, temporary fencing, support posts, removal, replacement, labor, equipment, furnishing materials, and all accessories and related work not paid for separately in order to complete the installation according to the plans and specifications.

4. Site Excavation & Grading: The completed work for site excavation and grading shall be paid for at the contract lump sum (LS) price. Payment will include all topsoil stripping, screening, and spreading, hauling, dewatering, and peat/organic soil removal necessary to construct the project as indicated on the plans and specifications. This price will include all subgrade undercutting, material stockpiling, excavation, embankment, structure backfilling, engineered fill, offsite disposal, dewatering, compaction (MDOT Granular Class II material), ditching (drainage swale), and grading associated with the overall site that is necessary to construct the project to the grades and lines indicated on the plans and specifications. The price will consist of all labor, material and equipment necessary to complete the grading and site preparation work for the project. Any concrete and/or bituminous damaged outside of the limits defined on the drawings will be repaired/replaced at no additional cost to the project. Disposal of items is to be the responsibility of the contractor at no additional cost. This bid item does not include scope items associated with earthwork for Sludge Storage Tank.
5. Perimeter Fence Removal & Relocation: The completed work for Perimeter Fence Removal & Relocation shall be paid for at a contract lump sum (LS) price. Payment shall include, but not limited to, removal and relocation of fence, concrete, posts and caps, salvage of materials, additional material as required to construct perimeter fence to extents shown compliant to match existing style and height, labor, equipment, furnishing materials, and all accessories and related work not paid for separately in order to complete the installation according to the plans and specifications.
6. Asphalt Drive Removal & Replacement: The complete work for Entrance Drive Removal and Replacement shall be paid for on a square foot (SF) basis as quoted in the bid and shall include all work as shown on the plans and called for in the specifications. The price shall include but is not limited to demolition and disposal of existing asphalt, subbase, removal of poor soils and replacement with good soils, aggregate base, bituminous surfacing, pavement sawcuts, pavement joints, tack coating, HMA pavement, existing access drive maintenance and temporary stabilization, gravel and preparation to maintain site access, and all other labor, materials and equipment necessary to complete the work in accordance with plans and specifications. Any damage outside of the limits defined on the drawings will be repaired/replaced at no additional cost to the project.
7. SCADA Allowance: These costs include coordination and fees incurred by Township Integrator (Perceptive Controls, Contact: David Morrissey, 616-644-0664) to provide programming. Eligible costs include new SCADA PLC with local HMI, programming of level sensing for two sludge storage tank compartments and screen channel, programming and configuration with existing Township telemetry including PLC, HMI, and SCADA programming for sludge storage tank monitoring and lead/lag screen controls, coordination with trades, startup, remote programming assistance and support. Any additions and/or reductions in the allowance must be approved through the Contract Change Order process. Upon completion of the project and submission of the final application for payment, the contractor will not be paid for any positive balance remaining in "SCADA Allowance".
8. Restoration: The completed work for restoration will be paid for at the contract lump sum (LS) price. This payment shall be payment in full for soil erosion control measures, landscape repair/replacement, existing ditch and check dam repair / replacement, culvert replacement, raking, seedbed preparation, providing seed, fertilizer, mulch, topsoil, cleaning of interior buildings, removal of any debris and/or repairs necessary to complete improvements to existing or better conditions, and any labor or equipment necessary to

complete the work as per the plans and specifications. If winter seeding is necessary, spring seeding will be required and included in the cost of this item.

## SLUDGE STORAGE TANK

9. Precast Sludge Storage Tank: The completed work for installation and testing of the Precast Sludge Storage Tank, as shown on the plans and detailed in the specifications, will be paid for at the contract unit price lump sum (LS). Payment shall be based on work completed as indicated on the plans and as directed by the Engineer. This item shall also include, but not be limited to, all communication and coordination with storage tank manufacturer, prefabricated storage tank panels and all materials provided by equipment manufacturer, engineer sealed plans and coordination with manufacturer, influent box and associated appurtenances, decant structure and associated appurtenances, earthwork including subbase materials, concrete work including forming and re-steel, grouting, anchoring, piping, fittings, valves (all types), valve boxes, odor control canister including externally braced ventilator, access hatches, floor type hydrostatic pressure relief valves, floor boxes, PVC tubing, waterstops, CIM 1000, linkseal, keyway forms, wood wedges, joint sealant, safety control measures, pressure testing and sampling, transportation including any permitting and fees, delivery, unloading and setting of premanufactured panels, labor, equipment, furnishing materials, painting, accessories (as required), labor installation, furnishing materials, start-up, testing (including temporary pumps and hose to transfer water to be utilized for hydrostatic testing) and applicable permits and fees for all accessories and related work not paid for separately in order to install and test the tank as shown on the plans, specifications and as directed by the Owner and Engineer.
10. Sludge Storage Tank Foundation: The completed work for installation and testing of the Sludge Storage Tank Foundation, as shown on the plans and detailed in the specifications, will be paid for at the contract unit price lump sum (LS). Payment shall be based on work completed as indicated on the plans and as directed by the Engineer. This item shall also include, but not be limited to, all communication and coordination with storage tank manufacturer, engineer sealed plans and coordination with manufacturer, concrete work including forming and epoxy coated re-steel, grouting, anchoring, structural concrete, epoxy coating, sand fill, linkseal, waterstops, xypex admixture, CIM 1000, keyway forms, wood wedges, joint sealant, safety control measures, and applicable permits and fees for all accessories and related work not paid for separately in order to install and test the tank as shown on the plans, specifications and as directed by the Owner and Engineer.
11. Earthwork: The completed work for dewatering as shown on the plans and detailed in the specifications, will be paid for at the contract unit price lump sum (LS). Payment shall include, but not limited to, all topsoil stripping, screening, and spreading, hauling, and soil removal necessary to construct the Sludge Storage Tank (foundation and precast) as indicated on the plans and specifications. This price will include all subgrade undercutting, material stockpiling, excavation, embankment, structure backfilling, compaction, ditching (drainage swale), site stability including sheeting / shoring (contractor shall provide engineered sealed plans for review and approval), engineered fill (Class II and/or 6AA), disposal of unsuitable soils offsite, protection of existing site conditions (specifically the existing sludge storage tank), field investigations including potholing to identify existing infrastructure location / condition, and grading necessary to construct the project indicated on the plans and specifications and 2026 Geotechnical Report. The price will consist of all labor, material and equipment necessary to complete

the excavation for the sludge storage tank. Disposal of items is to be the responsibility of the contractor at no additional cost. Contractor shall refer and comply with the requirements identified in the Soils and Structures Geotechnical Report dated March 30, 2026.

12. Dewatering: The completed work for dewatering as shown on the plans and detailed in the specifications, will be paid for at the contract unit price lump sum (LS). Payment shall include, but not limited to, setup, removal, disposal, permitting including applicable fees, all equipment and materials to perform dewatering measures including backup and temporary power subject to approval by Township / Engineer, SESC measures, for the duration necessary to complete the work according to the plans and specifications. Contractor shall refer to Soils and Structures Geotechnical Report dated March 30, 2026, and is responsible to confirm that all items necessary for installation of sludge storage tank foundation is accounted for as recommended by Soils and Structures.
13. 6" SDR 35, Effluent Pipe: The completed work for sanitary sewer, 6" SDR 35 effluent pipe installation and testing, of the sizes as shown on the plans and specifications, will be paid for at the contract unit price linear foot (LF). Payment shall be based on the horizontal field measurements from the point of beginning to the point where the new sanitary sewer ends, or from termination point to termination point. In addition, payment shall also include, but not be limited to, all excavation, clearing and grubbing, dewatering, bypass pumping, temporary and permanent soil erosion control, stone bedding, backfilling, density, connection to existing manholes and/or pipes, field investigation to locate existing utilities and connection, fittings, tree removal, bypass pumping, traffic control, signage, all gravel road and shoulder repairs / replacement, as required by the Union Township, pressure testing, labor, equipment, furnishing materials, and all accessories and related work not paid for separately in order to complete the installation according to the plans and specifications.
14. 6" D.I., Influent Pipe, Including Valves: The completed work for sanitary sewer, 6" D.I. Influent Pipe installation and testing, of the sizes as shown on the plans and specifications, will be paid for at the contract unit price linear foot (LF). Payment shall be based on the horizontal field measurements from the point of beginning to the point where the new sanitary sewer ends, or from termination point to termination point. In addition, payment shall also include, but not be limited to, all excavation, clearing and grubbing, dewatering, bypass pumping, temporary and permanent soil erosion control, stone bedding, backfilling, density, connection to tank including link seals, valves, valve boxes, field investigation to locate existing connection point, fittings, tree removal, bypass pumping, traffic control, signage, all gravel road and shoulder repairs / replacement, as required by the Union Township, pressure testing, labor, equipment, furnishing materials, and all accessories and related work not paid for separately in order to complete the installation according to the plans and specifications.
15. Sanitary Sewer Abandonment: The completed work for existing sanitary sewer abandonment shall be paid for at the contract lump sum (LS). Payment shall be based on locations noted on the plans for abandonment, and shall include, but not be limited to, all field investigation to locate sanitary sewer, coordination with engineer and owner, cut / cap, flowable fill, manhole modifications including water tight plug, testing, excavation, dewatering, backfilling, stone bedding, density of backfilled materials, labor, equipment, furnishing all materials, accessories and all related items not paid for separately necessary to complete the removal according to the plans and approved methods.

16. 6" Underdrain System, Including Clean-outs: The completed work for installation and testing of the Underdrain System, as shown on the plans and detailed in the specifications, will be paid for at the contract unit price lump sum (LS). Payment shall be based on work completed as indicated on the plans and as directed by the Engineer. This item shall also include, but not be limited to, field investigations for locating existing underdrain for tie in, perforated drainage piping, filter fabric, fittings, clean outs, excavation, clearing and grubbing, dewatering, bypass pumping, temporary and permanent soil erosion control, stone bedding, backfilling, density, connections and tie into existing system, excavation, televised video of installed pipe for inspection, and any labor, equipment or materials necessary to complete the work as per the plans and specifications.
17. Electrical, Controls, Wiring & Conduit: The complete work for electrical, controls, wiring and conduit will be paid at the contract price lump sum (LS). This payment shall include, but not be limited to, all electrical wiring, level monitoring device connections, lighting including poles, control panels, conduit, controls including wiring, junction boxes, relays, electrical connections, remote station contacts, input and output signal wiring for remote operations and level sensing, lighting, supports, testing, permits and fees, and all other labor, materials, and equipment required to complete construction in accordance with the plans and specifications. All programming to be provided by Owners' SCADA Integrator through SCADA Allowance Bid Item. All programming and other materials to be provided by Owners' SCADA Integrator through SCADA Allowance Bid Item.

#### **RAW WASTEWATER PUMPS**

18. Demolition & Removals: The completed work for Demolition and Removals will be paid for at the contract unit price lump sum (LS) as quoted in the proposal. Payment shall include, but not limited to, removal and disposal of all equipment as indicated on plans, removal and disposal of materials if not paid for separately, and all other materials/equipment indicated as to be removed per the plans, and all other labor, materials, and equipment required to complete the work in accordance with the plans and specifications. Work is to include salvage and/or disposal offsite as coordinated with the Township.
19. Screw Pump Channel Preparation, Including Grout & Coating: The completed work for Channel Preparation will be paid for at the contract unit price each (EA). Payment shall be based on the actual quantity of channels prepared. This payment shall include but is not limited to inspection of existing channel conditions, removal of remaining grout residue, trowel clean and prepare smooth surface for installation, removal all existing anchorage, grouting, waterproof coatings, and any additional materials as required to prepare existing channels to the manufacturer standards for screw pump placement including all labor, equipment, furnishing materials and all accessories and related work not paid for separately in order to complete the work according to plans and specifications.
20. 48" Screw Pump Screw Weldment Removal & Replacement: The completed work for 48" Screw Pump Weldment will be paid for at the contract unit price each (EA). Payment shall be based on actual quantity installed and shall include but is not limited to removal of existing equipment and appurtenances, furnish and install screw pump weldment per manufacturer recommendations, grout, cleanup and smoothing grout surface per specifications, transportation including any applicable permitting and fees, anchorage and fastening, painting including existing screw pump equipment, testing and inspection by manufacturer as specified, and to include all labor, equipment, furnishing materials and

accessories and related work not paid for separately in order to complete the work according to plans and specifications.

21. Upper & Lower Bearing Assembly Removal & Replacement: The completed work for upper and lower bearing assembly removal and replacement will be paid for at the contract unit price each (EA). Payment shall be based on actual quantity installed and shall include but is not limited to removal of existing equipment and appurtenances, furnish and install upper and lower bearing assemblies per manufacturer recommendations, integral lower stub shaft, upper bearing base plate, conduit, tubing, anchorage and fastening, grease, oil/lubricant, grout, including all labor, equipment, furnishing materials and all accessories and related work not paid for separately in order to complete the work according to plans and specifications.
22. Grease Pump / Lubrication System Removal & Replacement: The completed work for grease pump / lubrication system removal and replacement will be paid for at the contract price per lump sum (LS). Payment shall include but is not limited to removal of existing equipment and appurtenances, furnish and install grease pumping system including grease pump assembly, grease container assembly, visual flow grease line, conduit for flow indicator line protection, grease fittings angle assembly, adjusting screw, pumping element, check valve, mounting plate, expansion anchor, grease container assembly, stainless steel grease piping, grease pipe conduit, all fittings and appurtenances, and all other labor, materials, and equipment not paid for separately required to complete the work in accordance with the plans and specifications.
23. Upper Drive Shaft Weldment Removal & Replacement: The completed work for upper drive shaft weldment removal and replacement will be paid for at the contract unit price each (EA). Payment shall be based on actual quantity provided and shall include but is not limited to removal and replacement of existing equipment and appurtenances, furnish and install drive shaft weldment including all fittings, anchorage and appurtenances, and all other labor, materials, and equipment not paid for separately required to complete the work in accordance with the plans and specifications.
24. Adhesive Anchorage Removal & Replacement: The completed work for adhesive anchorage replacement will be paid for at the contract price per lump sum (LS). Payment shall include but is not limited to all adhesive anchorage required for replacement per manufacturer recommendations, including all labor, materials and equipment not paid for separately required to complete the work in accordance with the plans and specifications.
25. Belt and Sheave Set: The completed work for belt and sheave set will be paid for at the contract unit price each (EA). Payment shall be based on actual quantity provided and shall include but is not limited to belt and sheave set for re-grouting screw pump troughs, and any other materials, labor, equipment or materials not paid for separately required to complete the work in accordance with the plans and specifications.
26. Spare Bearing Seal Sets, Upper & Lower: The completed work for upper bearing spare seal set will be paid for at the contract unit price each (EA). Payment shall be based on actual quantity provided and shall include but is not limited to upper bearing radial and thrust bearing sets including upper spring loaded lip seals, lower spring loaded lip seals for the upper bearing seal set and two spare lip seals, seal retainer, and shaft sleeve for lower bearing seal set, including any other materials, labor, equipment or materials not paid for separately required to complete the work in accordance with the plans and specifications.

27. Electrical Modifications: The complete work for electrical modifications will be paid for at the contract unit price per lump sum (LS). Payment shall include but not be limited to all disconnection and reconnection of existing electrical connections to the raw wastewater screw pumps as required to facilitate the replacement of all identified components, all coordination and communication with SCADA integrator (as applicable), all testing, permits and applicable fees, and all other labor materials and equipment not paid for separately required to complete the work in accordance with the plans and specifications.

#### **MECHANICAL FINE SCREEN**

28. Emergency Bypass Channel Modifications: The completed work for bypass channel modifications will be paid for at the contract lump sum (LS) price. This payment shall include but is not limited to field investigations to determine modifications necessary, removal of bar screen and all anchoring, inspection, patching, repair to concrete channel and walls to provide smooth surface, trowel cleaning, handrail removal and/or replacement, aluminum grating removal, replacement and modifications, and any additional materials as required to prepare existing channel to the manufacturer standards for mechanical screen placement including all labor, equipment, furnishing materials and all accessories and related work not paid for separately in order to complete the work according to plans and specifications.
29. Mechanical Fine Screen: The completed work for mechanical in-channel screen will be paid for at the contract lump sum (LS) price. This payment shall include but is not limited to equipment, anchoring, freight, loading/offloading, manufacturer coordination and training, testing, appurtenances, water service connection, all anchoring required by manufacturer spare parts, and any other labor, materials and equipment required to install the screen according to manufacturer's recommendations, and per the project plans and specifications.
30. Washer Compactor Unit with Discharge Chute: The completed work for Washer Compactor Unit with Discharge Chute will be paid for at the contract lump sum (LS) price. This payment shall include but is not limited to equipment, anchoring, freight, manufacturer coordination and training, testing, appurtenances, water service and drain connection, mounting stands, mounting hardware, integrating washer compactor unit, discharge chute, spare parts, and any other labor, materials and equipment required to install the washer compactor according to manufacturer's recommendations, and per the project plans and specifications.
31. Plumbing Modifications: The completed work for plumbing modifications will be paid for at the contract unit price per lump sum (LS). Payment shall include but is not limited to any modifications to the headworks building necessary to facilitate the installation of mechanical fine screen and washer/compactor unit, including any modifications to the NPW piping including installation and connection to existing water line to screen, installation and connection of sch 40 PVC drain piping including fittings and appurtenances, all labor, materials, and equipment not paid for separately required to complete the work in accordance with the plans and specifications.
32. Permanent Trolley, Screen Lift: The complete work for permanent trolley system will be paid for at the contract unit lump sum (LS) price. Payment shall include but is not limited to fabrication and installation of trolley system with location as coordinated with Township and Engineer to be used to aid with future maintenance of the existing screen in the

headworks building, and all other materials, equipment, and labor necessary to complete the work according to plans and specifications.

33. Electrical, Controls, Wiring & Conduit: The complete work for electrical, controls, wiring and conduit will be paid for at the contract unit lump sum (LS) price. Payment shall include, but is not limited to control panels (including local controls) and electrical connections for the mechanical fine screen and washer/compactor, level monitoring device connections, coordination with SCADA contractor, relocation of light fixtures (as applicable), all electrical wiring, conduit, relays, raceways, remote station contacts, input and output signal wiring for remote operations and level sensor, VFD motor cables and motor cables including connections, supports, junction boxes, connections, calibration, testing, permits and fees, and all other equipment, labor and materials necessary to complete the work according to the plans and specifications. All programming to be provided by Owners' SCADA Integrator through SCADA Allowance Bid Item.
34. HVAC Modifications: The complete work for HVAC modifications will be paid for at the contract unit lump sum (LS) price. Payment shall include but is not limited to removal and replacement of water heater, piping, valves, fittings, connection to existing water supply, connection to existing emergency eye wash/shower station, coordination with owner for salvage and/or disposal, and all other equipment, labor and materials necessary to complete the work according to the plans and specifications.

#### PART 2 – PRODUCTS

Not used

#### PART 3 – EXECUTION

Not used

END OF SECTION 01270