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www.GarverUSA.com

MEETING MINUTES

Hilliard N. Fletcher WRRF Phase II Improvements

To: Attendees

Date: November 21, 2023

From: Garver

RE: Hilliard N. Fletcher WRRF Phase II Improvements
Mandatory Pre-Bid Conference Meeting Minutes

Project Info: File No. OCA-23-1043
Engineering Project No. 2024.702.001
Garver Project No. 19W10160

Nothing stated or distributed at this meeting will change the contract documents unless thru written addendum.

The mandatory Pre-Bid Conference for the construction of the Hilliard N. Fletcher Water Resource Recovery Facility (HFWRRF) Phase II Improvements was held on Thursday, November 16, 2023. This meeting was conducted at the Council Chambers Room at City Hall in Tuscaloosa, Alabama and began at 2:00 PM (CST) and concluded at approximately 2:40 PM (CST).

- Introductions and Sign-in Sheet
 - City of Tuscaloosa
 - Process Assets Director: Ethan Hicks
 - SCADA Control and Instrumentation Manager: Donny Driver
 - HFWRRF Chief Operator: Dustin Grammer
 - Community Development Program Manager: Caramyl Drake
 - Office of City Attorney Representative: Hudson Cheshire
 - Garver
 - Project Manager: Wes Cardwell
 - Assistant Project Manager: Matt Tabor
 - Prequalified Contractors
 - Official attendance of prequalified contractors was taken by Wes Cardwell. The following prequalified contractors were represented:
 - Haren Construction Company
 - J&P Construction Company
 - John Plott Company
 - Mark Johnson Construction
 - All contractors that met the prequalification requirements were in attendance for the mandatory Pre-Bid meeting.

- Project Schedule – Bidding
 - Bids will be received until **Thursday, December 7, 2023**, at **10:00 AM** (CST) at the Council Chambers Room. To meet the project schedule, the bid opening date will not change unless absolutely necessary.
 - The deadline for questions and clarifications is **Friday, December 1, 2023**. Questions received after this date may not be answered. The final addenda will be issued a minimum of forty-eight (48) hours prior to the bid opening. Bidders were encouraged to submit their questions as soon as possible.
 - Contract award to be made within 45 days of bid opening.

- Addenda
 - Addenda will be issued through the City of Tuscaloosa Online Planroom via Central Bidding.
 - Documents will also be posted to Garver’s Online Planroom through Quest, as a convenience. In the event of any discrepancy, information provided on Central Bidding shall govern.
 - No oral interpretation of the contract documents will be made during the pre-bid meeting.

- Bid Opening and Evaluation
 - Bids will be received at the Council Chamber at City Hall (the same location at the prebid meeting) at **10:00 AM (CST) on Thursday, December 7, 2023**. This time was stressed to all attendees as it is not the same as the prebid meeting as typically done.
 - No bids will be accepted after bid time is called. Bids may be submitted electronically through Central Bidding (www.centralbidding.com). Electronic bids must meet all requirements as if submitting a bid in-person.
 - Refer to Front End Documents, Section Two – Instructions to Bidders for all bidding requirements.
 - Article 4, Bid Submission Requirements
 - All paper bids are to be enclosed in a sealed envelope addressed to the City Clerk, 2201 University Boulevard, City Hall, Tuscaloosa, Alabama.
 - All bids are to be marked with the following: “Hilliard N. Fletcher WRRF Phase II Improvements”, “Bid Enclosed”, “Attention City Clerk”.
 - General Contractor’s name and current license number must be labeled on outside envelope.
 - Bidders must use the proposal forms provided in the contract documents.
 - All sealed bids must include a copy of the General Contractor’s license.
 - Article 6, Bid Security
 - All bonds and/or cashier’s check will be made payable to the City of Tuscaloosa for an amount **not less than five (5) percent** of the City’s or its engineers or architects estimated cost of the Project or of the total bid in the proposal, but in **no event more than \$10,000.00**.
 - Section Three – Bid Proposal
 - All forms must be completed in their entirety.
 - Bidder Information.
 - Addenda Acknowledgement.
 - Price included for as-built drawings.
 - Experience.
 - Subcontractor(s).
 - Surety Information.

- Attachment A: Bid Proposal Review
 - The **Base Bid** is comprised of **18 bid items**.
 - Bid Form Requirements:
 - Lump sum items and unit price items are to be filled in on the appropriate blanks.
 - The price for lump sum items is to be written (in numbers) in the Bid Price column.
 - For unit price items, bidders will write in the unit price in the appropriate column.
 - Contingency allowances are to be included in the final base bid price.
 - Specification Section 01 20 00, Price and Payment Procedures, provides details of each of the Base Bid items.
 - **Base Bid Items 3, 7, and 11** cover Work for each of the anaerobic digesters not listed as separate bid items, including but not limited to:
 - Demolition.
 - Piping modifications.
 - Installation of hydraulic (pumped) mixing system.
 - Costs for cover manufacturer to visit site and assess the cover. Manufacturer to provide written report of findings and recommendation, if any, of repairs.
 - **Base Bid Items 4, 8, and 12** cover Work to remove and dispose of all contents within the digesters.
 - Specification Section 44 10 00, Digester Cleaning and Cover Inspection, provides cleanout requirements, including, but not limited to:
 - Setup of temporary dewatering equipment.
 - Removal, dewatering, and disposal of all digester contents.
 - Washdown and cleaning of tank.
 - **Base Bid Items 4, 8 and 12** will be paid on a unit price basis for each dry ton of solids disposed.
 - 500 Dry Tons will be used for the Basis of Bid. Payment to be based on actual mass of solids removed.
 - Payment Procedures are detailed in Specification Section 44 10 00, Digester Cleaning and Cover Inspection, Item 3.5, and will generally consist of the following:
 - Contractor to take a minimum of three samples from each truck, witnessed by Owner and Engineer.
 - If dewatered cake characteristics change, additional sample are to be taken.
 - Samples to be provided to Owner for Total Solids analysis (at no cost to Contractor) or by Third-Party (to be paid by Contractor).
 - Weigh tickets for each truck to be provided (wet tons).
 - Dry Tons = Wet Tons x Total Solids Concentration.
 - **No payment will be made for trucks with missing weigh tickets.**

- **Base Bid Items 5, 9, and 13** cover Work to replace existing protective coating system(s).
 - Only to be used based on the findings of the Cover Manufacturer assessment.
- **Base Bid Items 6, 10, and 14** cover Work to make repairs to the digester cover system(s).
 - Contingency allowance, only to be used based on the findings of the Cover Manufacturer assessment.
 - Contractor to prepare cost to complete repairs based on recommendations of the Cover Manufacturer.
 - Work to commence only upon written authorization by the Owner and Engineer.
- **Base Bid Item 18** is to cover any unforeseen Work necessary to complete the project.
 - Work to commence only upon written authorization by the Owner and Engineer.
- There are five (5) **Deductive Alternates**
 - **Deductive Alternate No. 1**
 - Deduct all work associated with Facility 35 – Digester Gas Scrubber.
 - **Deductive Alternate No. 2**
 - Deduct all work associated with Facility 12 – Anaerobic Digester No. 2.
 - Include Base Bid items that specifically pertain to Anaerobic Digester No. 2 (cleanout, contingency, etc.).
 - **Deductive Alternate No. 3**
 - Deduct all work associated with Facility 13 – Anaerobic Digester No. 3.
 - Includes Base Bid items that specifically pertain to Anaerobic Digester No. 3 (cleanout, contingency, etc.)
 - **Deductive Alternate No. 4**
 - Deduct all work associated with replacing existing roof at the Digester Control Building.
 - Contractor still responsible for any repairs that are necessary due to completion of other work.
 - **Deductive Alternate No. 5**
 - Deduct all work associated with replacing/consolidating existing control panels in Digester Control Building.
- The Lowest Responsible Bidder is defined as the bidder that submits the lowest base bid less the selected, sequential deductive alternates. The deductive alternates are listed in order of priority and will be taken in order. The final budget will be established following bid opening based on submitted bids.
- **Minority Enterprise/Disadvantaged Business Enterprise (MBE/DBE/WBE) Policy**
 - The City of Tuscaloosa has voluntarily adopted a Minority/Disadvantaged Business Enterprise (MBE/DBE/WBE) Program designed to encourage the participation and development of minority and disadvantaged business enterprises and to promote equal business opportunities in the City to the fullest extent allowed by state and federal law.
 - It is the policy of the City to promote full and equal business opportunities for all persons doing business with the City, regardless of race, sex or national origin. It is the ultimate goal

of this policy to promote an equitable business climate district. The City will seek to increase minority and women participation for contracts that require formal bids. These efforts will be for contracts above \$50,000 as allowed by the Alabama Public Works law. These efforts are designed to help prevent discrimination against minorities and disadvantaged businesses and promote more completion among vendors, suppliers, and contractors of the City of Tuscaloosa.

- It is the intent of the City to foster competition among contractors, suppliers, and vendors that will result in better quality and more economical services rendered to the City. Under this policy, the City of Tuscaloosa has established a goal of **ten to twenty percent (10 – 20%)** inclusion of minority and disadvantaged business enterprises for all services required to deliver City projects. **In no case shall the stated percentage be the determining factor in contract awards. Rather, contractors must demonstrate a good faith effort to attain the desired percentage goal.**
- The City require contractors to demonstrate a good faith effort to attain the goal of 10 – 20% participation of MBE/DBE/WBE's in all levels of the Public Works contracting process. Contractors shall document their efforts to obtain minority and disadvantaged business participation in the bid documents. Contractors should note that failure to document a good faith effort to the satisfaction of the City may subject the contractor to bid rejection for non-responsiveness. The following process shall constitute a good faith effort under the City's policy:
 - Contractors deciding to bid on a City project shall submit the MBE/DBE/WBE Documentation Statement and Acknowledgement (Form 1). **Form 1 must be submitted to the City of Tuscaloosa Community Development Program Manager with Infrastructure and Public Services/Tuscaloosa Builds no later than seven (7) days prior to the bid, or at the pre-bid conference, whichever is earlier.**
 - Contractors shall submit MBE/DBE/WBE Bid Solicitation Notice (Form 2). **Form 2 must be submitted to the City of Tuscaloosa Community Development Program Manager with Infrastructure and Public Services/Tuscaloosa Builds no later than seven (7) days prior to the bid, or at the pre-bid conference, whichever is earlier.**
 - Contractors shall submit a brief plan for achieving the stated MBE/DBE/WBE Participation Goal for his/her trade (Form 3). **Form 3 must be submitted in the contractor's sealed bid.**
 - Contractor shall submit a listing of all MBE/DBE/WBE contractors that submitted bids (Form 4). **Form 4 must be submitted in the contractor's sealed bid.** (Note: In the event an MBE/DBE/WBE contractor submits a bid after the general contractor has sealed the bid, contractors should write on the envelope the name(s) and scope of work of the MBE/DBE/WBE contractor who submitted the bid.)
 - Contractor shall submit a list of all MBE/DBE/WBE firms the contractor proposes to utilize during the execution of the contract (Form 5). In addition, the contractor shall include on Form 5 all firms that the major subcontractors propose to utilize. **Form 5 must be submitted in the contractor's sealed bid.**
- Bidders should carefully review MBE/DBE/WBE requirements and submit forms accordingly.
- Questions about the Policy requirements should be directed to Caramyl Drake, City of Tuscaloosa Community Development Program Manager, (205) 248-5725, cdrake@tuscaloosa.com.
- Project Construction Schedule
 - Substantial Completion: 480 Calendar Days
 - Liquidated Damages:
 - \$2,000/day until final completion is obtained

- Summary of Work
 - The Work consists of rehabilitation to the existing anaerobic digestion facilities and north aeration basin.
 - **The Contractor is solely and completely responsible for the safety of all persons and property during the contract period.**
 - Contractor to exercise extreme caution and take all necessary safety precautions when working around the anaerobic digestion facility. Comply with all applicable OSHA, local, State, and Federal laws for items such as:
 - Confined space assessments.
 - Explosive gas environments.
 - Interior air quality.
 - Ventilation.
 - Rehabilitation of the existing anaerobic digesters will include:
 - Cleanout of the existing digester tanks.
 - There is available space for temporary dewatering equipment adjacent to the digesters.
 - Water and temporary power is available in this area. The City of Tuscaloosa will require that these be metered but will cover the costs for these services specific to the digester cleanout effort.
 - Demolition of existing interior piping and mixing systems.
 - Installation of a new hydraulic (pumped) mixing system.
 - Modifications to the existing digester gas collection piping.
 - Construction of digested sludge gravity transfer boxes
 - Rehabilitation of the digester control building including roof replacement, HVAC improvements, and improved roof access.
 - A new hydrogen sulfide gas scrubber system will be installed near the existing conditioning equipment.
 - Improvements to the North Aeration Basins will include:
 - Construction of an above-grade aeration piping system.
 - Replacement of the existing ceramic diffusers with EPDM diffusers.
 - Repair existing nitrate recycle valves.
- Work Requirements
 - Bidders should familiarize themselves with the Section 01 14 00, Work Restrictions.
 - Section 1.5.C includes a proposed work sequence for the work within the aeration basins.
 - Work to existing aeration basins must be completed within critical time windows to minimize disruptions to plant operations and maintain permit compliance.
 - Effluent channel cannot be out of service longer than **12 hours**.
 - Individual aeration basins cannot be out of service for more than **21 consecutive days**.
 - Actual durations are variable, depending on time of the year work is performed.
 - Contractor, Owner, and Engineer will work closely to sequence construction to minimize impact on plant performance.
 - Bidders should also familiarize themselves with other elements of the project requirements:
 - Section 01 30 00, Administrative Requirements.

November 21, 2023

Hilliard N. Fletcher WRRF Phase II Improvements – **Mandatory Pre-Bid Conference Meeting Minutes**

- Meetings (preconstruction, progress, preinstallation, facility startup, and closeout).
 - Section 01 32 16, Construction Progress Schedule.
 - Section 01 33 00, Submittal Procedures.
 - Section 01 50 00, Temporary Facilities and Controls.
- Following the prebid meeting, project representatives were available at the project site to meet with bidders. The following contact information for plant staff was provided to request days/times to make additional visits.
 - Dustin Grammer, DGRammer@Tuscaloosa.com
 - Steven Shaw, SShaw@Tuscaloosa.com

Attachments: **Meeting Attendees (Sign-in Sheet)**
 PDF Copy of Pre-Bid Conference Presentation



Hilliard N. Fletcher WRRF Phase II Improvements
 City of Tuscaloosa

Mandatory Pre-bid Conference
 November 16, 2023, 2:00 PM
 Council Chambers of City Hall

SIGN-IN SHEET

Name	Representing	Phone #	Email
Scott Stewart	Haren Const.	423-263-5561	cosborne@harenconstruction.com
Robert Meriwether	J&P Const.	205-345-6631	rmeriwether@jandpconstruction.com
Julia Mosley	Mark Johnson Con.	205-752-1978	julia@mjohnsonconstruction.com mark@mjohnsonconstruction.com
Trey Bliccard	Morrow Water Tech.	256-599-6485	tblizzard@morrowwater.com
Brian Thomason	Electric Machine Control	205-612-0723	bthomason@emcinc.com



SIGN-IN SHEET

Name	Representing	Phone #	Email
Ethan Hicks	COT	205-523-1422	ehicks@tuscaloosa.com
DUSTIN GRAMMER	COT	205-248-5929	dgrammer@TUSCALOOSA.COM
Donny Driver	COT	205-353-1259	ddriver@tuscaloosa.com
STEVE HAN	DENALI	770-845-0078	STEVE.HAN@DENALI.WAFL.COM
Randy Sallee	DENALI		
Andy Harshman	John Plott Co.	205-292-1921	aharshman@jplott.com
COURTNEY GIBBS	COT	205-248-5725	cgibbs@tuscaloosa.com
Hudson CHESHIRE	COT	205 248 5147	HCHESHIRE@TUSCALOOSA
WES GARDNER	GARVER	205.483.0384	RWGARDNER@GARVERUSA.COM
Matt Taber	Garver	251.604.8279	MLTaber@GarverUSA.com



Hilliard N. Fletcher WRRF Phase II Improvements

PRE-BID CONFERENCE

November 16, 2023

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Pre-Bid Conference Agenda

- Introductions and Sign-In
- Project Bid Schedule
- Addenda and Interpretations
- Bid Opening and Evaluation
- Front End Documents
- Project Bid Schedule
- Summary of Work
- Work Restrictions
- Questions
- Site Visit



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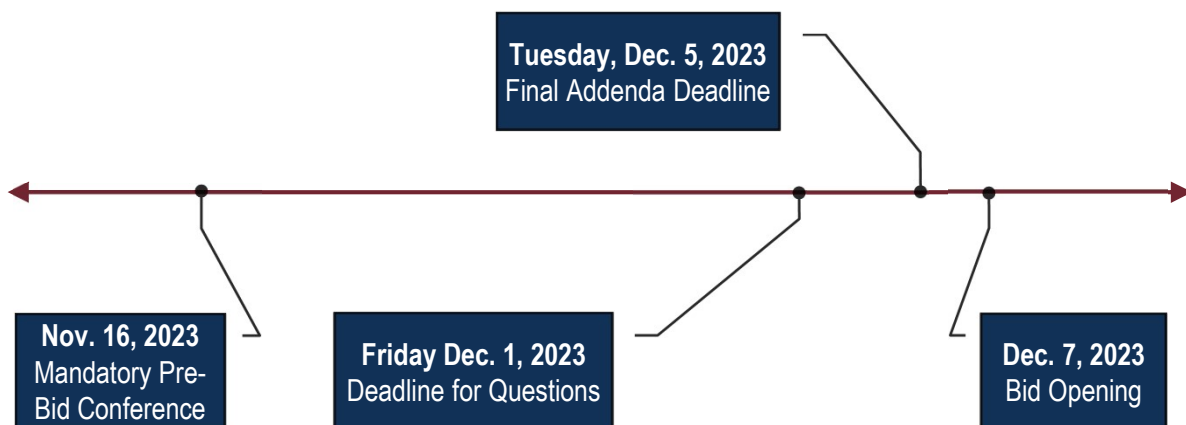
Introductions and Official Sign-in Requirements

- City of Tuscaloosa Staff
- Garver Staff
- Prequalified Contractors:
 - Haren Construction Company
 - J&P Construction Company
 - John Plott Company
 - Mark Johnson Construction



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Project Bid Schedule



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Front End Documents Review: Addendum

- Addendums to the bid package will be issued through the City of Tuscaloosa Online Planroom, via Central Bidding.
- Documents are also posted to Garver's Online Planroom through Quest, as a convenience. In the event of any discrepancy, information provided on Central Bidding shall govern.
- No oral interpretation of the Contract Documents will be made during prebid meeting.



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Front End Documents Review: Bid Opening and Evaluation

- Bids are due by **10:00 am (CST) December 7, 2023**
 - Council Chamber of City Hall
- Electronic bids via Central Bidding are acceptable, but most follow same requirements as in-person bid-submission
- Refer to Front End Documents, Section Two – Instructions to Bidders
 - Article 4, Bid Submission Requirements
 - Sealed envelope, addressed to City of Tuscaloosa, Attn: City Clerk
 - Bid labeled on outside of envelope
 - Provide GC license number on outside of envelope
 - Use proposal forms provided
 - Include a copy of GC license within envelope



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Front End Documents Review: Bid Opening and Evaluation

- Bids are due by **10:00 am (CST) December 7, 2023**
 - Council Chamber of City Hall
- Electronic bids via Central Bidding are acceptable, but most follow same requirements as in-person bid-submission
- Refer to Front End Documents, Section Two – Instructions to Bidders
 - Article 4, Bid Submission Requirements
 - Article 8, Bid Security: 5% Bid Bond or cashier's/certified check, not more than \$10,000



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Front End Documents Review: Bid Opening and Evaluation

- Section Three – Bid Proposal
 - Complete all forms in their entirety
 - Bidder Information
 - Addenda Acknowledgement
 - Price included for as-built drawings
 - Experience
 - Subcontractor(s)
 - Surety Information



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Front End Documents Review: Attachment A: Bid Proposal Base Bid Items

The Base Bid is comprised of 18 bid items

Attachment A – Bid Proposal
Hillard N. Fletcher WRRF Phase II Improvements
(For additional information, reference Specification Section 01 29 00 – PAYMENT PROCEDURES)

Base Bid

Base Bid Item No.	Bid Qty	Description (Bidder to write Bid Price/Unit Price in words)	Unit Price	Bid Price
1	1 LS	Mobilization and demobilization for the lump sum of (maximum of 5% of base bid): _____	N/A	\$
2	1 LS	All Work as necessary for the Facility 05 – Site Civil Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____	N/A	\$
3	1 LS	All Work as necessary for the Facility 11 – Anaerobic Digester No. 1 Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____	N/A	\$
4	500 Dry Tons	Anerobic Digester No. 1 Cleaning: Removal and disposal of biosolids, residuals, and debris associated with cleaning Anaerobic Digester No. 1 in accordance with Specification Section 44 10 00 for the unit price of: _____	\$	\$






Base Bid

Base Bid Item No.	Bid Qty	Description (Bidder to write Bid Price/Unit Price in words)	Unit Price	Bid Price
1	1 LS	Mobilization and demobilization for the lump sum of (maximum of 5% of base bid): <div style="background-color: yellow; height: 30px; width: 100%;"></div>	N/A	\$
2	1 LS	All Work as necessary for the Facility 05 – Site Civil Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: <div style="background-color: yellow; height: 30px; width: 100%;"></div>	N/A	\$
3	1 LS	All Work as necessary for the Facility 11 – Anaerobic Digester No. 1 Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: <div style="background-color: yellow; height: 30px; width: 100%;"></div>	N/A	\$
4	500 Dry Tons	Anerobic Digester No. 1 Cleaning: Removal and disposal of biosolids, residuals, and debris associated with cleaning Anaerobic Digester No. 1 in accordance with Specification Section 44 10 00 for the unit price of: <div style="background-color: yellow; height: 30px; width: 100%;"></div>	\$	\$


Lump sum items and unit price items are to be filled in on the appropriate blanks



Base Bid


Base Bid Item No.	Bid Qty	Description (Bidder to write Bid Price/Unit Price in words)	Unit Price	Bid Price
1	1 LS	Mobilization and demobilization for the lump sum of (maximum of 5% of base bid): _____ _____	N/A	\$ 
2	1 LS	All Work as necessary for the Facility 05 – Site Civil Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____ _____	N/A	\$ 
3	1 LS	All Work as necessary for the Facility 11 – Anaerobic Digester No. 1 Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____ _____	N/A	\$ 
4	500 Dry Tons	Anerobic Digester No. 1 Cleaning: Removal and disposal of biosolids, residuals, and debris associated with cleaning Anaerobic Digester No. 1 in accordance with Specification Section 44 10 00 for the unit price of: _____ _____	\$	\$

The price for lump sum items is to then be written (in numbers) in the Bid Price column




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Base Bid

Base Bid Item No.	Bid Qty	Description (Bidder to write Bid Price/Unit Price in words)	Unit Price	Bid Price
1	1 LS	Mobilization and demobilization for the lump sum of (maximum of 5% of base bid): _____ _____	N/A	\$
2	1 LS	All Work as necessary for the Facility 05 – Site Civil Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____ _____	N/A	\$
3	1 LS	All Work as necessary for the Facility 11 – Anaerobic Digester No. 1 Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____ _____	N/A	\$
4	500 Dry Tons	Anerobic Digester No. 1 Cleaning: Removal and disposal of biosolids, residuals, and debris associated with cleaning Anaerobic Digester No. 1 in accordance with Specification Section 44 10 00 for the unit price of: _____ _____	\$ 	\$


For unit price items, bidders will write in the unit price in the appropriate column



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6	1 LS	Contingency Allowance to be used on a change authorization basis for repairs to the existing fixed cover system on Anaerobic Digester No. 1, as identified and recommended by the Manufacturer and to be used only after Owner approval, for the lump sum of: Fifty-Thousand Dollars	N/A	50,000
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Contingency allowances are to be included in the final base bid price



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Specification Section 01 20 00, Price and Payment Procedures, provides details of each of the Base Bid items

SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:
Cash allowances.
Contingency allowances.
Testing and inspection allowances.
Schedule of Values.
Application for Payment.
Partial Payments.
Defect assessment.
Unit prices.
Alternates.

1.2 BID ITEM DESCRIPTIONS

A. The Basis of Payment will be as established in the Contract Documents, as lump sums or as unit price amounts based on actual quantities, and as described below:

Base Bid Item No. 1: Mobilization and Demobilization

a. Payment shall be at the lump sum price and shall include all labor, materials, tools, equipment, permits, bonds, insurance, overhead and profit, and other required costs necessary to move personnel, equipment, materials, tools, supplies, and incidentals to the project site prior to beginning work and to move personnel, equipment, materials, tools, supplies, and incidentals from the project site immediately after project acceptance.

b. Total payment for this bid item shall not exceed 5 percent of the contractor's base bid price. Payments for mobilization shall not exceed 75% of the total item. A minimum of 25% will be retained until such time that demobilization is complete, and the areas disturbed have been fully restored and accepted by the Owner.

Base Bid Item No. 2: Facility 05 – Site Civil Improvements

c. Payment shall be at the lump sum price and shall be full compensation for all work, labor, materials, start-up, training, commissioning, and other required costs necessary to complete the work indicated in the Facility 05 drawings and associated specifications, except those items listed separately. Any and all modifications necessary to complete this work but not listed herein shall be included in this bid item.

Base Bid Item No. 3: Facility 11 – Anaerobic Digester No. 1 Improvements

d. Payment shall be at the lump sum price and shall be full compensation for all work, labor, materials, start-up, training, commissioning, and other required costs necessary to complete the work indicated in the Facility 11 drawings and associated specifications, except those items listed separately. Any and all modifications necessary to complete this work but not listed herein shall be included in this bid item.

e. Costs to complete the assessment of the digester cover, as described in Section 44 10 00, DIGESTER CLEANING AND COVER INSPECTION, by the cover manufacturer shall be incorporated into this bid item.

Base Bid Item No. 4: Anaerobic Digester No. 1 Cleaning


f. Payment shall be for the full compensation, at the contract unit price per dry ton, for all work, labor, equipment, and materials to complete the digester cleanup effort as described in Section 44 10 00, DIGESTER CLEANING AND COVER INSPECTION.

g. Costs to complete the assessment of the digester cover shall be included in Base Bid Item No. 3.

Project No. 19W10160
HPWRRF Phase II Improvements

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Section 01 20 00
Price and Payment Procedures



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3	1 LS	All Work as necessary for the Facility 11 – Anaerobic Digester No. 1 Improvements, defined in the Contract Documents except those items listed separately below, for the lump sum of: _____ _____	N/A	\$
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Base Bid Items 3, 7, and 11 cover Work for each of the anaerobic digesters not listed separately

Including, but not limited to:

- Demolition
- Piping modifications
- Installation of hydraulic (pump) mixing system
- Costs for cover manufacturer to visit site and assess the cover. Manufacturer to provide written report of findings and recommendations, if any, of repairs



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4	500 Dry Tons	Anaerobic Digester No. 1 Cleaning: Removal and disposal of biosolids, residuals, and debris associated with cleaning Anaerobic Digester No. 1 in accordance with Specification Section 44 10 00 for the unit price of: _____ _____	\$	\$
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Base Bid Items 4, 8, and 12 cover Work to remove and dispose of all contents within the digesters

Specification Section 44 10 00 provides cleanout requirements, including, but not limited to:

- Setup of temporary dewatering equipment
- Removal, dewatering, and disposal of all digester contents
- Washdown and cleaning of tank



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Bid Items 4, 8, and 12 will be paid on a unit price basis for each dry ton of solids disposed.

- 500 Dry Tons used for Basis of Bid. Payment to be based on actual mass of solids removed.
- Payment Procedure (Spec. Section 44 10 00, Item 3.5):
 - Contractor to take a minimum of three samples from each truck, witnessed by Owner and Engineer.
 - If dewatered cake characteristics change, additional samples are to be taken.
 - Samples to be provided to Owner for Total Solids analysis (at not cost to Contractor) or by Third-Party (to be paid by Contractor).
 - Weigh tickets for each truck to be provided (wet tons).
 - Dry Tons = Wet Tons x Total Solids Concentration.
 - No payment will be made for trucks with missing weigh tickets.



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5	1 LS	Anaerobic Digester No. 1 Cover System Protective Coating Replacement: Surface preparation and installation of protective coating system on underside of Anaerobic Digester No. 1 cover system in accordance with Specification Section 09 90 00 for the lump sum price of:	N/A	\$

Base Bid Items 5, 9, and 13 cover Work to replace existing protective coating system(s)

- Only to be used based on the findings of the Cover Manufacturer assessment.



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6	1 LS	Contingency Allowance to be used on a change authorization basis for repairs to the existing fixed cover system on Anaerobic Digester No. 1, as identified and recommended by the Manufacturer and to be used only after Owner approval, for the lump sum of: <u>Fifty-Thousand Dollars</u>	N/A	\$50,000
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Base Bid Items 6, 10, and 14 cover Work to make repairs to the digester cover system(s)

- Contingency allowance, only to be used based on the findings of the Cover Manufacturer assessment.
- Contractor to prepare cost to complete repairs based on recommendations of the Cover Manufacturer.
- Work to commence only upon written authorization by the Owner and Engineer.



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18	1 LS	Contingency Allowance to be used on a change authorization basis for items required during completion of the Project to be used solely at the discretion of the Owner, for the lump sum of: <u>One Hundred Thousand Dollars</u>	N/A	\$ 100,000
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Base Bid Item 18 it to cover any unforeseen Work necessary to complete the project

- Work to commence only upon written authorization by the Owner and Engineer.



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Front End Documents Review: Attachment A: Bid Proposal Deductive Alternates

There are five (5) deductive alternates

Deductive Alternates				
Deductive Alternate Item No.	Bid Qty	Description (Bidder to write Bid Price in words)	Unit Price	Bid Price
1	1 LS	Deduct all work associated with Facility 35 – Digester Gas Scrubber Improvements in its entirety.	N/A	\$
2	1 LS	Deduct all work associated with rehabilitation of Anaerobic Digester No. 2 (Facility 12) in its entirety including associated bid items included in the Base Bid specifically pertaining to Anaerobic Digester No. 2.	N/A	\$
3	1 LS	Deduct all work associated with rehabilitation of Anaerobic Digester No. 3 (Facility 13) in its entirety including associated bid items included in the Base Bid specifically pertaining to Anaerobic Digester No. 3.	N/A	\$
4	1 LS	Deduct all work associated with replacement of the existing membrane roofing system for the Digester Control Building, as detailed in Facility 20 drawings, in its entirety.	N/A	\$
5	1 LS	Deduct all work associated with replacement of control panels FP-13-1, FP-15-1, and FP-16-7, as detailed in Facility 20 drawings, in its entirety.	N/A	\$

Office of the City Attorney
Form No. PW-01 Rev. 07/2023

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1	1 LS	Deduct all work associated with Facility 35 – Digester Gas Scrubber Improvements in its entirety.	N/A	\$
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- Deduct all work associated with Facility 35 – Digester Gas Scrubber

Deductive Alternate No. 1



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2	1 LS	Deduct all work associated with rehabilitation of Anaerobic Digester No. 2 (Facility 12) in its entirety including associated bid items included in the Base Bid specifically pertaining to Anaerobic Digester No. 2.	N/A	\$

- Deduct all work associated with Facility 12 – Anaerobic Digester No. 2
- Includes Base Bid items that specifically pertain to Anaerobic Digester No. 2 (cleanout, contingency, etc.)

**Deductive
Alternate No. 2**



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3	1 LS	Deduct all work associated with rehabilitation of Anaerobic Digester No. 3 (Facility 13) in its entirety including associated bid items included in the Base Bid specifically pertaining to Anaerobic Digester No. 3.	N/A	\$

- Deduct all work associated with Facility 13 – Anaerobic Digester No. 3
- Includes Base Bid items that specifically pertain to Anaerobic Digester No. 3 (cleanout, contingency, etc.)

**Deductive
Alternate No. 3**



24

4	1 LS	Deduct all work associated with replacement of the existing membrane roofing system for the Digester Control Building, as detailed in Facility 20 drawings, in its entirety.	N/A	\$

- Deduct all work associated with replacing existing roof at the Digester Control Building
- Contractor still responsible for any repairs that are necessary due to completion of other work.

**Deductive
Alternate No. 4**



25

5	1 LS	Deduct all work associated with replacement of control panels FP-13-1, FP-15-1, and FP-16-7, as detailed in Facility 20 drawings, in its entirety.	N/A	\$

- Deduct all work associated replacing/consolidating existing control panels in Digester Control Building

**Deductive
Alternate No. 5**



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Front End Documents Review: Attachment B: Bid Proposal List of Manufacturers

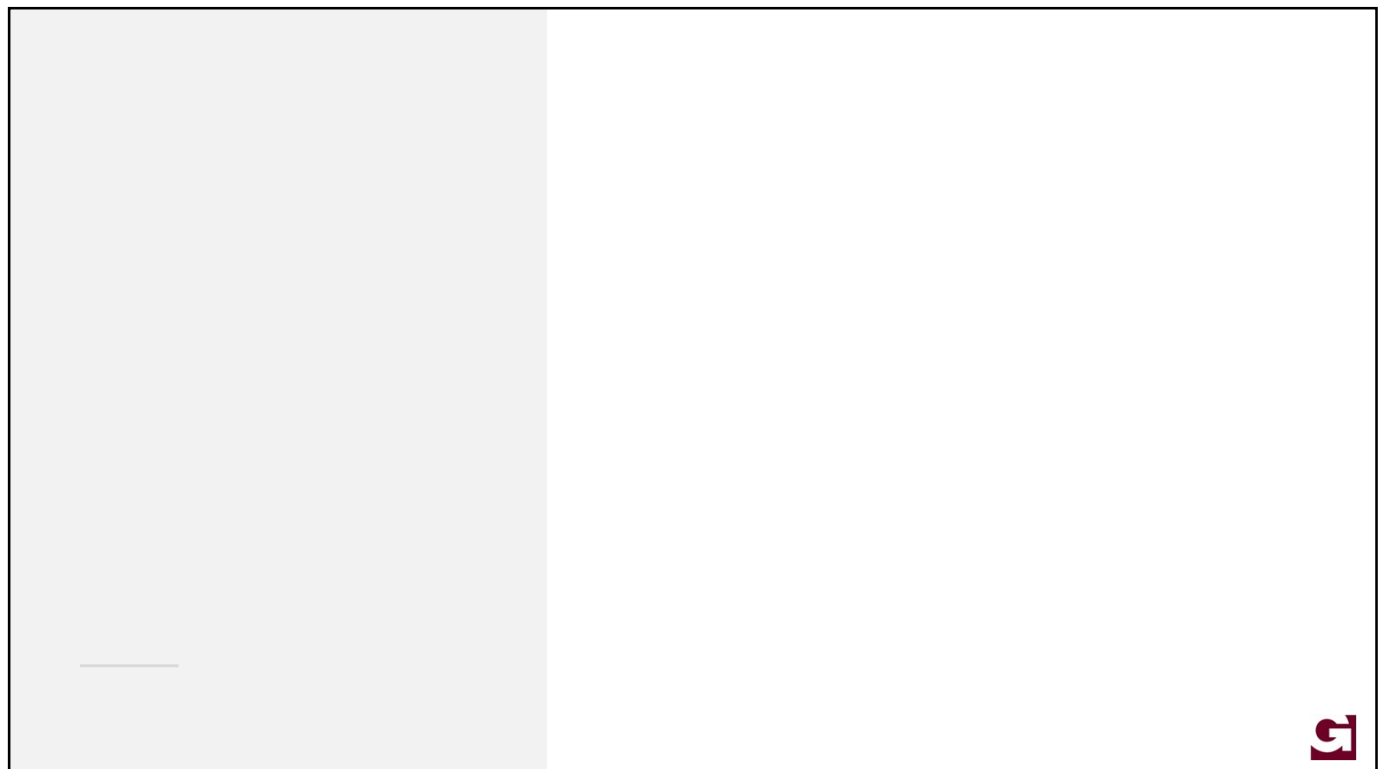
Attachment B – List of Manufacturers

Hilliard N. Fletcher WRRF Phase II Improvements

Specification Section	Equipment	Base Bid Equipment Manufacturer (Circle One)
26 24 19	Motor Control Centers	1. Square D; by Schneider Electric 2. ABB 3. Allen-Bradley 4. Siemens
41 10 01	Digester Gas Safety Equipment	1. Varec Biogas 2. Shand & Jurs
41 20 00	Hydrogen Sulfide Removal Equipment	1. Unison 2. MARCAB
44 42 00	Hydraulic Mixing Systems	1. Vaughan Co., Inc. - Rotamix System 2. Hayward Gordon - Hydromix System
44 42 13	Fine Bubble Fixed Grit Aeration System	1. Sanitaire – Xylem 2. SSI



27



28

Lowest Responsible Bidder

Defined as the bidder that submits the lowest base bid less the selected, sequential deductive alternates.



29

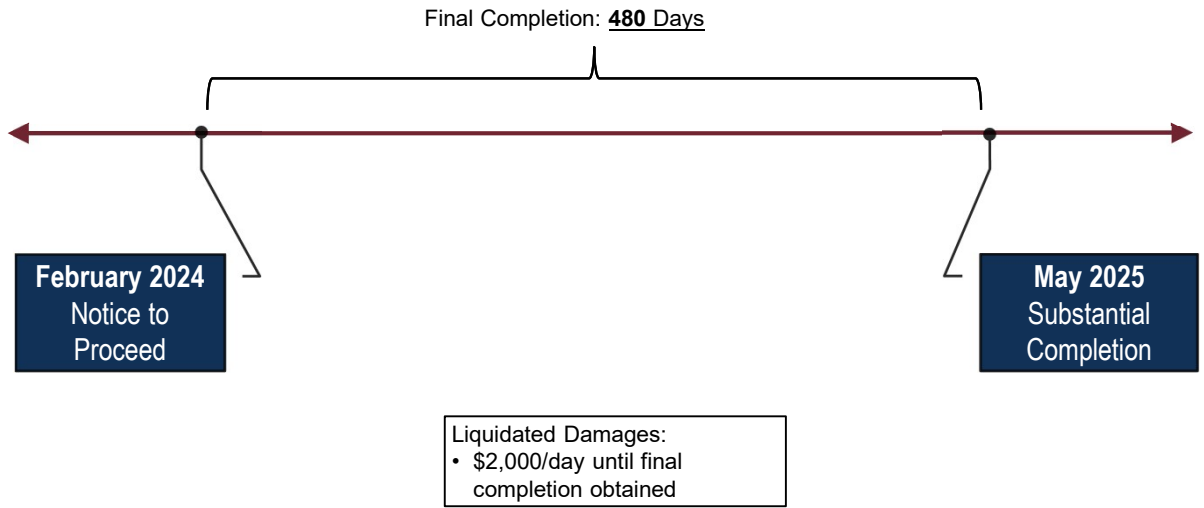
Bidders should carefully review MBE/DBE/WBE requirements and submit forms accordingly

- Exhibit A (pg. 123) of Front-End Documents
- Forms 1 & 2 are due today
- Forms 3, 4, & 5 are to be submitted as part of Contractor's sealed bid



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Project Construction Schedule



31

Summary of Work



32

The Work consists of rehabilitation at the existing Anaerobic Digestion Facilities and North Aeration Basin



33

The Contractor is solely and completely responsible for the safety of all persons and property during the contract period

Contractor to exercise extreme caution and take all necessary safety precautions when working around the anaerobic digestion facility. Comply with all applicable OSHA, local, State, and Federal laws for items such as:

- **Confined space assessments**
- **Explosive gas environments**
- **Interior air quality**
- **Ventilation**



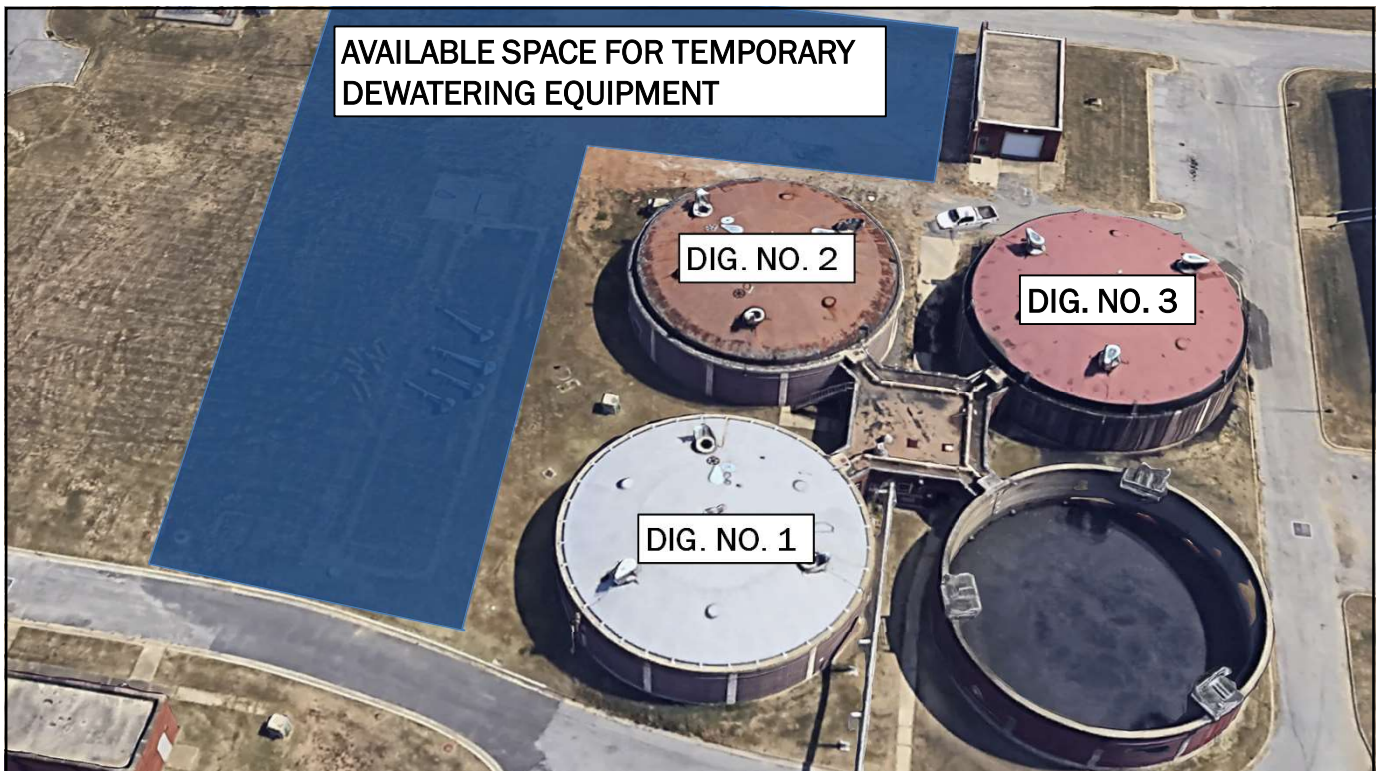
34

Cleanout of the Existing Digester Tanks

Rehabilitation of the existing anaerobic digesters will include....



35



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Cleanout of the Existing Digester Tanks

Demolition of Existing Interior Piping and Mixing Systems

Rehabilitation of the existing anaerobic digesters will include....

The slide features two blue rounded rectangular boxes containing the text 'Cleanout of the Existing Digester Tanks' and 'Demolition of Existing Interior Piping and Mixing Systems'. Below these is a bolded sentence: 'Rehabilitation of the existing anaerobic digesters will include....'. A small red logo is in the bottom right corner.

38




39

Cleanout of the Existing Digester Tanks

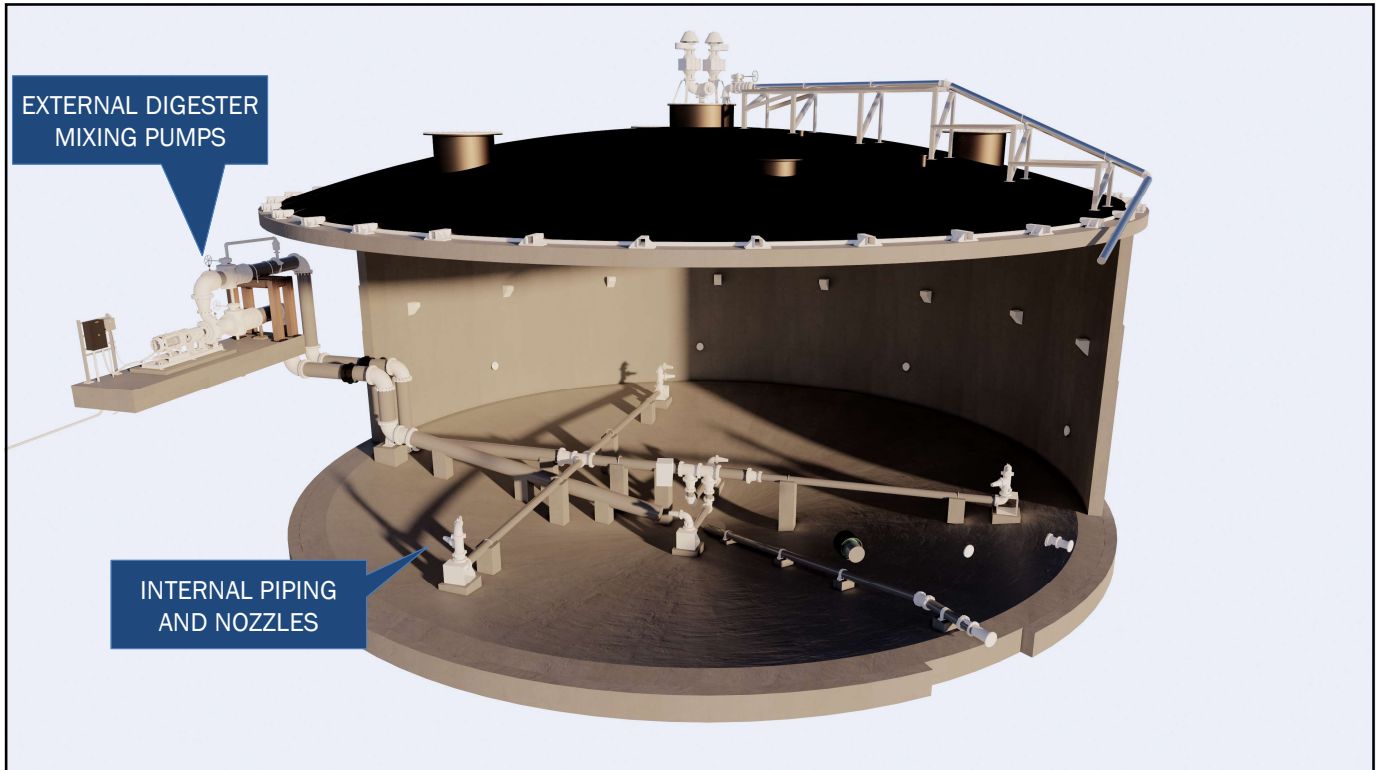
Demolition of Existing Interior Piping and Mixing Systems

Installation of a New Hydraulic (Pumped) Mixing System

Rehabilitation of the existing anaerobic digesters will include....



40



41

Cleanout of the Existing Digester Tanks

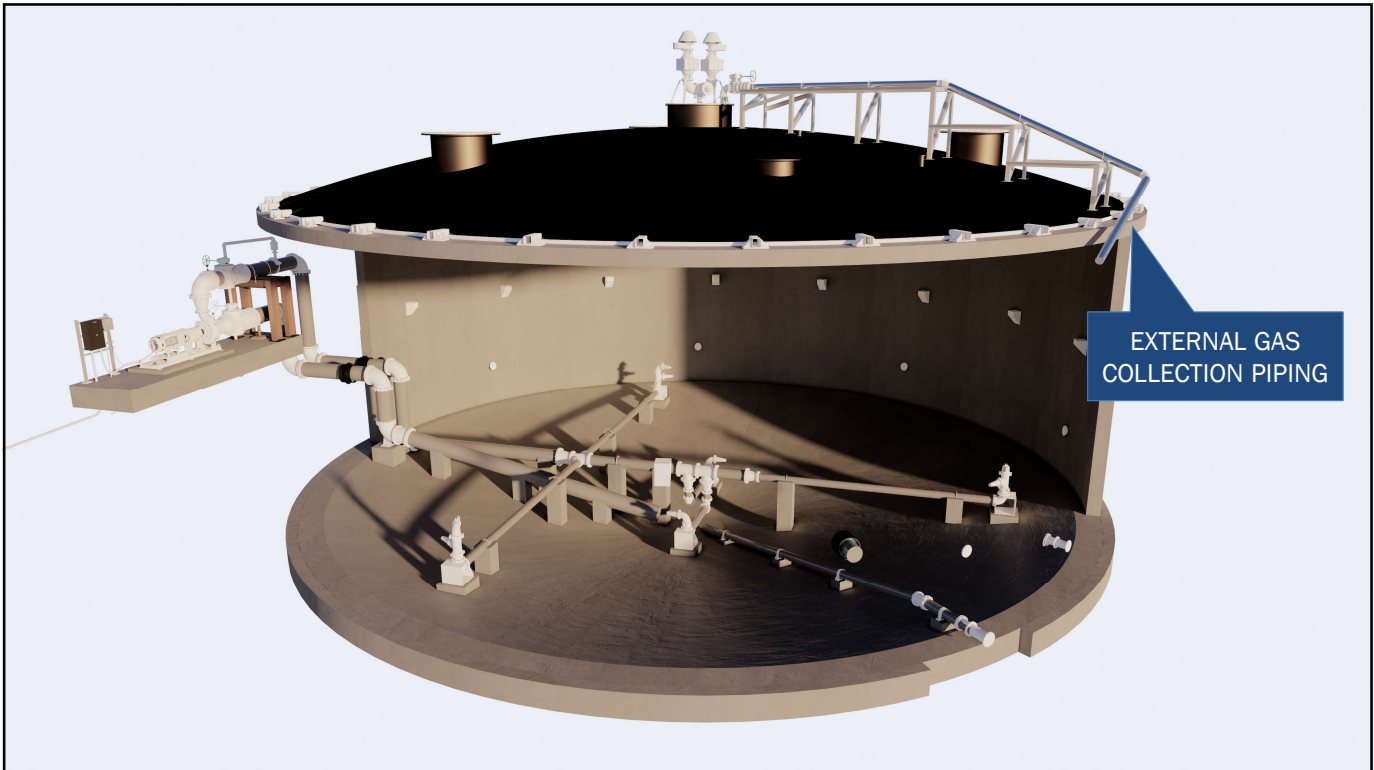
Demolition of Existing Interior Piping and Mixing Systems

Installation of a New Hydraulic (Pumped) Mixing System

Modifications to Existing Digester Gas Collection Piping

Rehabilitation of the existing anaerobic digesters will include....

42



43

Cleanout of the Existing Digester Tanks

Demolition of Existing Interior Piping and Mixing Systems

Installation of a New Hydraulic (Pumped) Mixing System

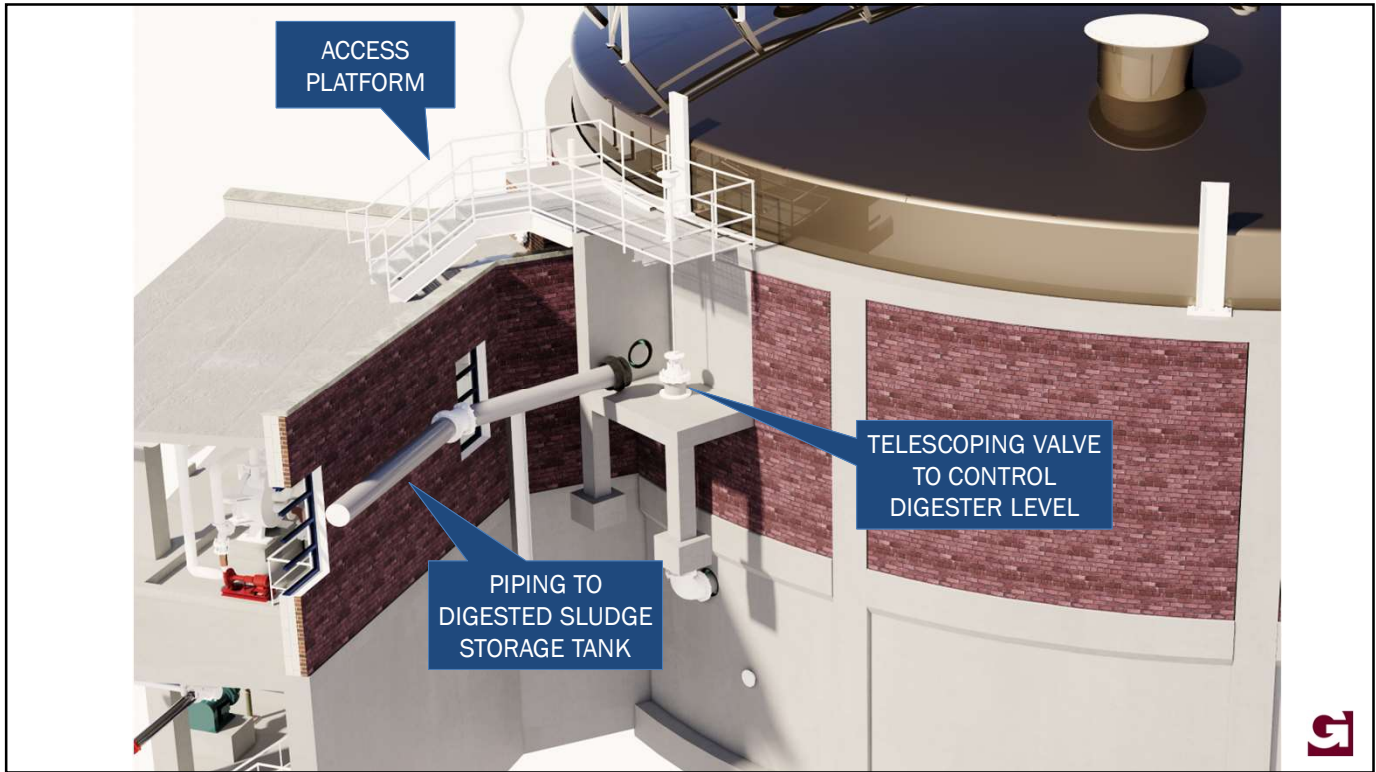
Modifications to Existing Digester Gas Collection Piping

Construction of Digested Sludge Gravity Transfer Boxes

Rehabilitation of the existing anaerobic digesters will include....



44



45



Rehabilitation of the Digester Control Building includes roof replacement, HVAC improvements, and improved roof access.

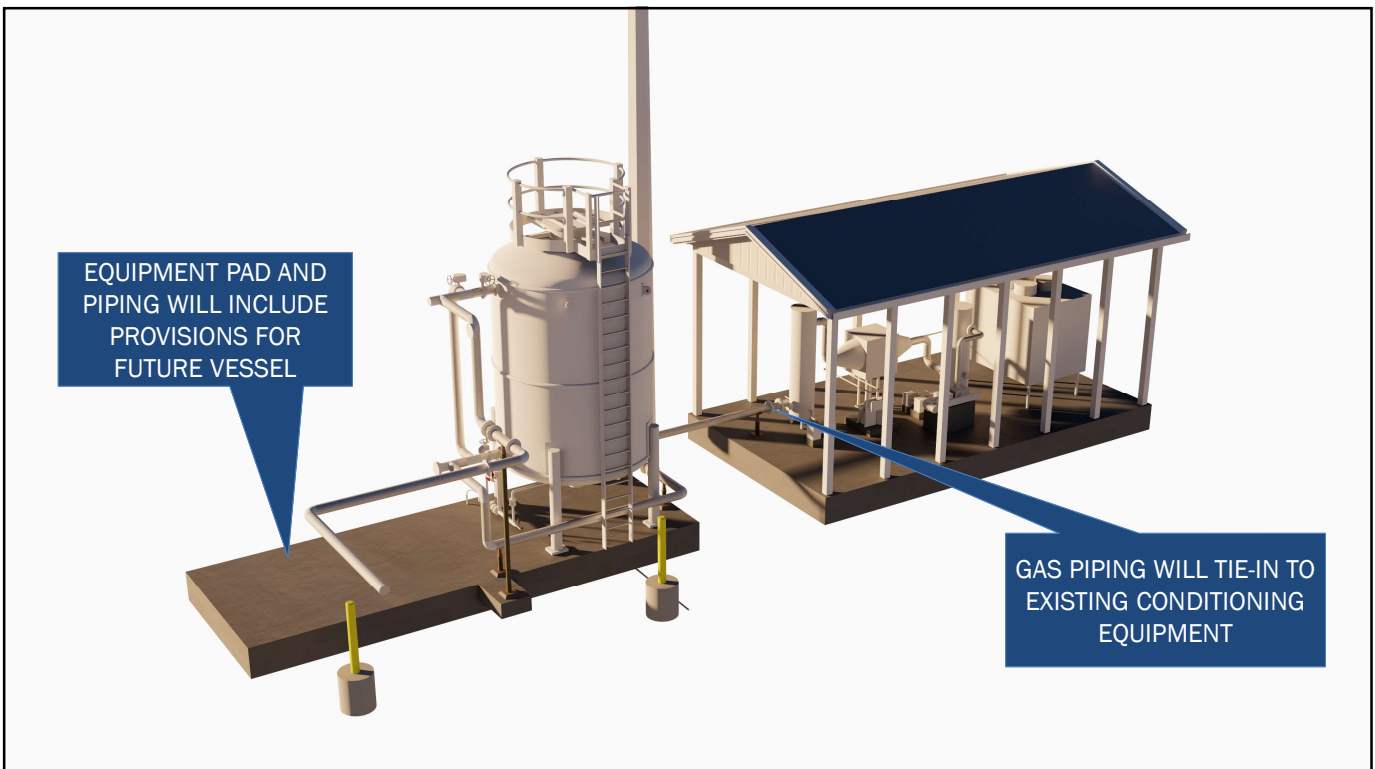


46

A new hydrogen sulfide gas scrubber system will be installed near the existing conditioning equipment



47



48

The Work consists of rehabilitation at the existing Anaerobic Digestion Facilities and North Aeration Basin



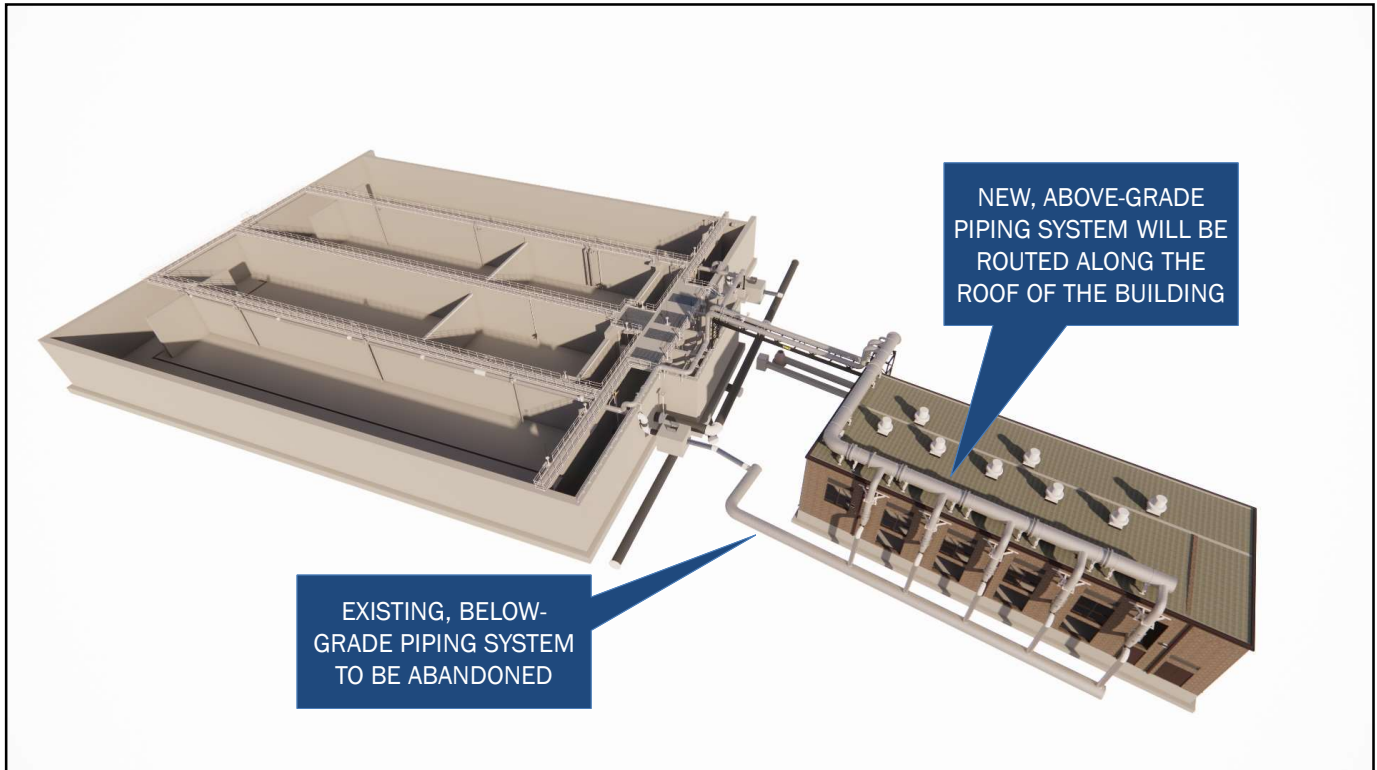
49

Construction of an Above-Grade Aeration Piping System

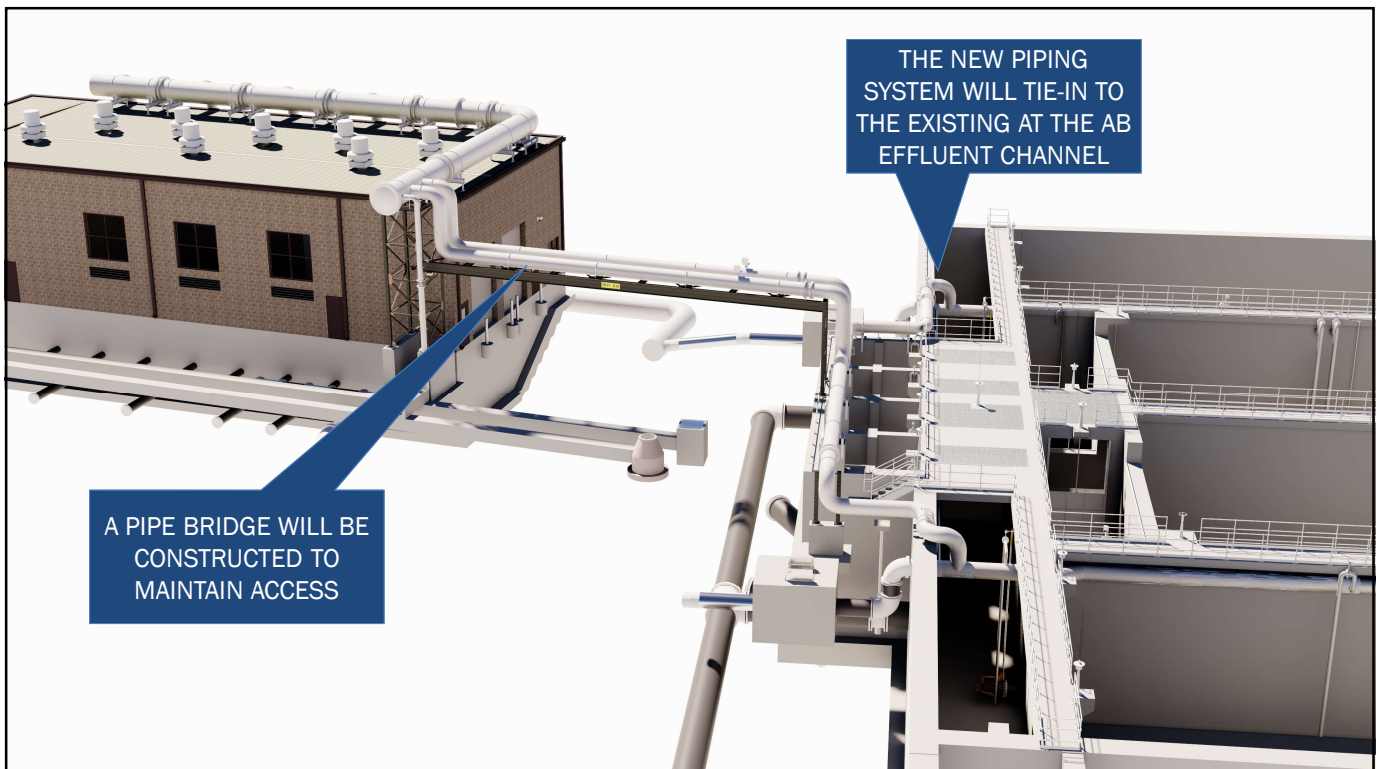
Improvements to the North Aeration Basins will include....



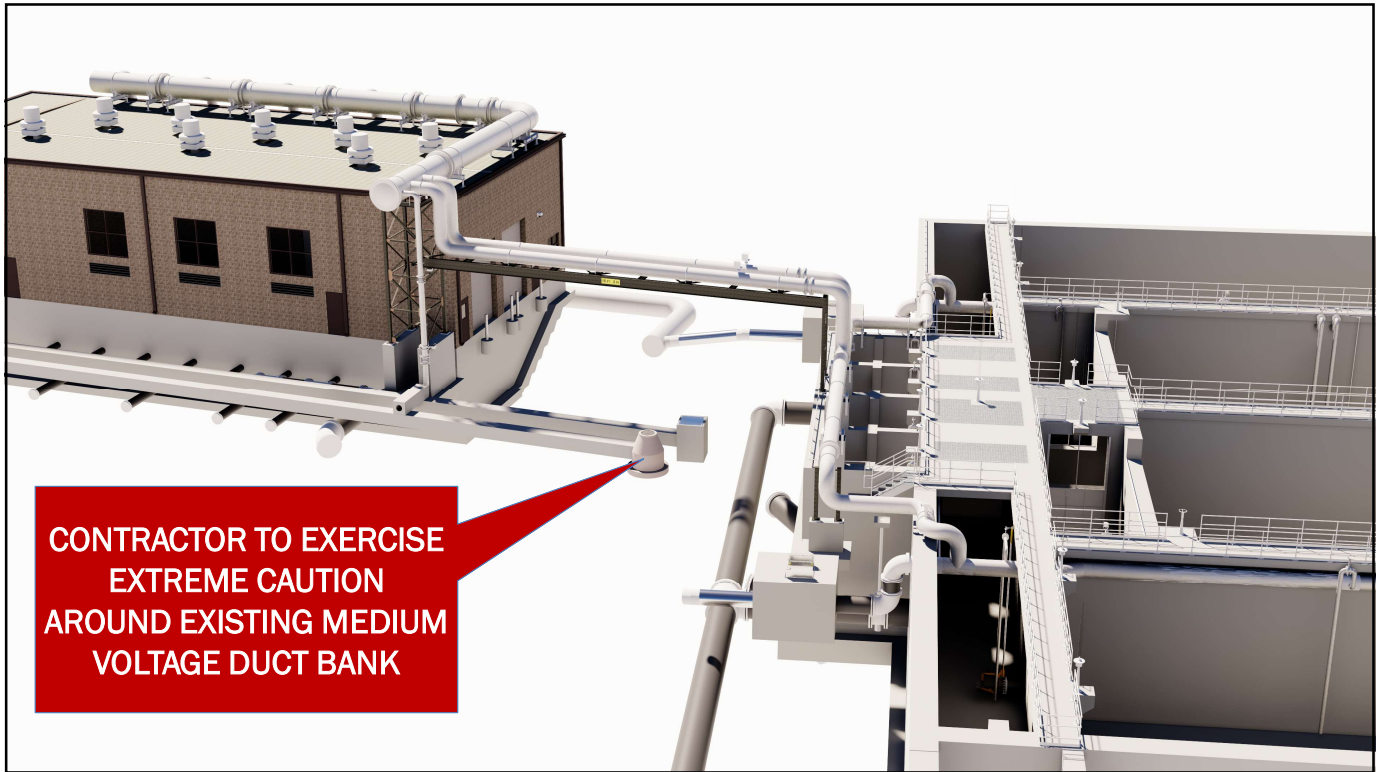
50



51



52



53

Construction of an
Above-Grade Aeration
Piping System

Replacement of the
Existing Ceramic Diffusers
with EPDM Diffusers

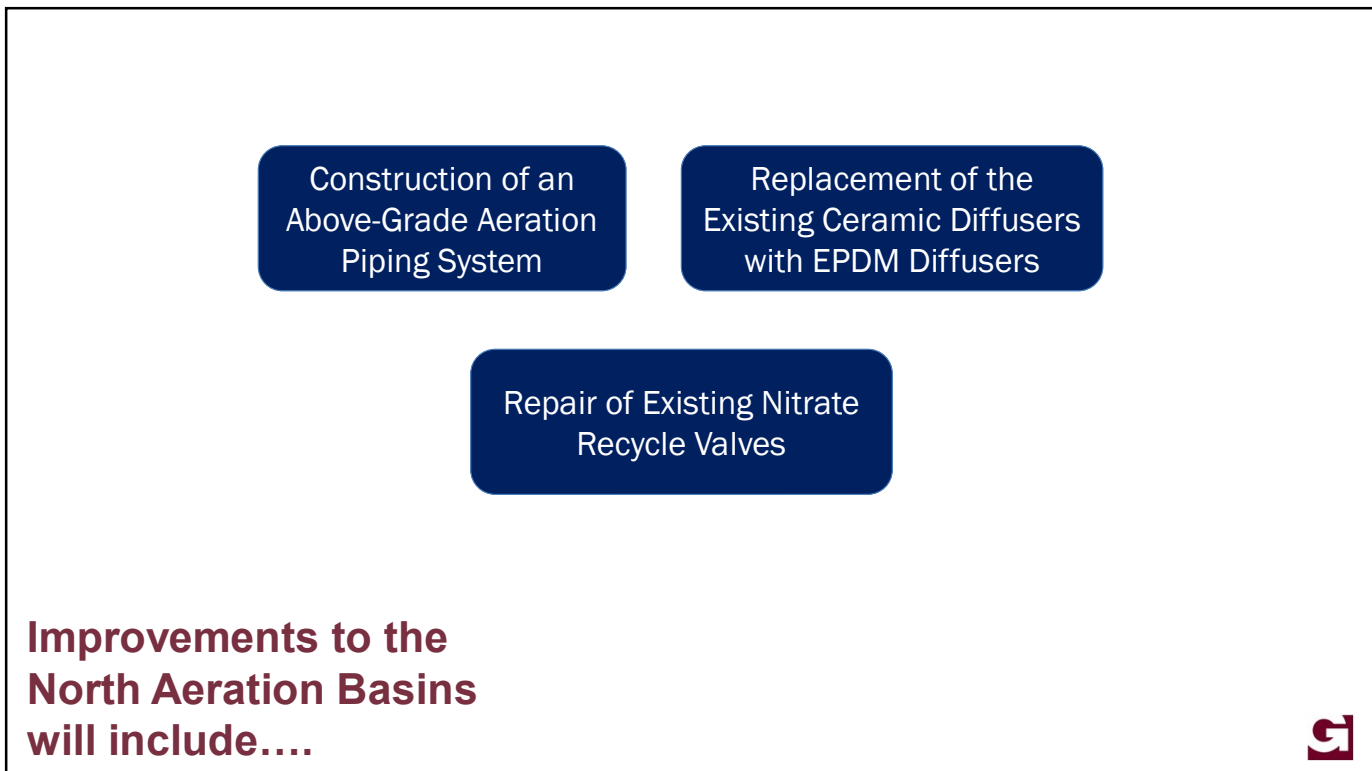
**Improvements to the
North Aeration Basins
will include....**



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55



56

Bidders should familiarize themselves with the Section 01 14 00, Work Restrictions

- Section 1.5.C includes a proposed work sequence.
- Work to existing aeration basins must be completed within critical time windows
 - *Effluent channel cannot be out of service longer than **12 hours**.*
 - *Individual aeration basins cannot be out of service for more than **21 consecutive days**.*
- Actual durations are variable, depending on time of the year work is performed.
- Contractor, Owner, and Engineer to work closely to sequence construction so as to minimize impact on plant performance.



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Bidders should familiarize themselves with other elements of the project requirements

Section 01 30 00, Administrative Requirements

- *Meetings (preconstruction, progress, preinstallation, facility startup, and closeout)*

Section 01 32 16, Construction Progress Schedule

Section 01 33 00, Submittal Procedures

Section 01 50 00, Temporary Facilities and Controls



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The facility is available for site visits today:

4010 Reese Phifer Avenue
Tuscaloosa, AL 35401



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Additional Information:

To schedule a site visit, contact:

Dustin Grammer, DGrammer@Tuscaloosa.com

Steven Shaw, SShaw@Tuscaloosa.com

Questions Can be Submitted in Writing to:

Wes Cardwell, RWCardwell@GarverUSA.com



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Hilliard N. Fletcher WRRF Phase II Improvements

PRE-BID CONFERENCE

November 16, 2023