



JULY 15, 2022

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CONTRACT NO. 1760 G, E, H, P

CSO BYPASS AND DISINFECTION

ADDENDUM NO. 1

All bidders bidding Contract No. **1760 G, E, H, P** shall read and take note of this Addendum No. 1. The Contract Documents for **Contract No. 1760 G, E, H, P – CSO Bypass and Disinfection** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1760 G, E, H, P ; Addendum No. 1

The Acknowledgement attached to Addendum No. 1 is to be signed and returned immediately via **email** to **Kathleen P. Uniatowski** at contract.clerks@alcosan.org and acknowledged with Bidder's Proposal.

Kimberly Kennedy, P.E.
Director – Engineering and Construction

**ACKNOWLEDGEMENT OF
CONTRACT NO. 1760 G, E, H, P – CSO BYPASS AND DISINFECTION**

ADDENDUM NUMBER 1

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

JULY 15, 2022

CONTRACT NO. 1760 G, E, H, P
CSO BYPASS AND DISINFECTION

ADDENDUM NO. 1



JULY 15, 2022

CONTRACT NO. 1760 G, E, H, P

CSO BYPASS AND DISINFECTION

ADDENDUM NO. 1

A. Contract Documents – Volume 1

1. *(No Items)*

B. Contract Specifications – Volume 2

1. Summary of Work (Section 01 11 00)
 - a) Replace the existing Summary of Work (Section 01 11 00) with the attached version.
2. Construction Facilities and Temporary Controls (Section 01 50 00)
 - a) Replace the existing Construction Facilities and Temporary Controls (Section 01 50 00) with the attached version.

C. Contract Specifications – Volume 3

1. *(No items)*

D. Contract Drawings

1. *(No Items)*

E. Questions

1. **Question:** Reaching out regarding the upcoming ALCOSAN - CSO Bypass Disinfection project. We would like to provide a full lighting & controls package for the project. We are listed as an approved manufacturer with Cooper lighting but wanted to ask if we can provide equals for a complete package.

Answer: ALCOSAN will not be adding any approved/listed vendors during the bid period. Vendors/manufacturers that are not named may submit their products for consideration as an "or equal" if their product meets the requirements of the specification.

2. **Question:** Reference DBE Effort: Per the pre-bid meeting response to our question - The use of an excel spreadsheet that will mimic all the same criteria stated in the Solicitation and Commitment Statement Minority (MBE) And Female (WBE) Owned Business Enterprises rather than using the Solicitation And Commitment Statement Minority (MBE) And Female (WBE) Owned Business is acceptable as a tracking mechanism.

Answer: This is acceptable.

3. **Question:** Reference Bid Form: As requested during the pre-bid meeting, please allow us to modify the Bid Form as follows: On the first page of the Contractor's Qualifications Statement, we may "Co-Partnership" and fill in "Limited Partnership".

Answer: This is acceptable.

4. **Question:** Can we have a copy of the pre-bid power-point presentation?

Answer: Will be provided in Addendum #1.

5. **Question:** The elevation of the Sodium Bisulfate Tank pad on drawing 842-M-41 is indicated as 729.75. On drawing 865-S-40, the elevation is indicated as 726.83. Which is correct?

Answer: The sodium bisulfite tank pad, shown at elevation 729.75 on Sheet 842-M-41, is referring to the existing pads for the existing sodium bisulfite tanks in existing Building 842. The pad elevation of 726.83 indicated on Sheet 865-S-40 is referring to the new pad for sodium hypochlorite in new Building 865. These are separate tank pads and there is no discrepancy.

6. **Question:** Please provide more details for the tank demolition on drawings 840-SDM-10 and 840-SDM11

Answer: The demolition drawings were prepared based on the best record documentation available. Additional details are available on Sheet 840-MDM-10, 840-MDM-11, and 840-MDM-12

7. **Question:** Do the HVAC, Plumbing and Electrical contractors provide their own concrete equipment pads, if required?

Answer: Section 01 11 00 states the GC provides equipment pads.

8. **Question:** Does the Electrical contractor provide concrete light pole bases?

Answer: The concrete foundation for light poles shall be provided by the Electrical Contractor as detailed on Sheet 000-ED-60. Additionally, see revised Section 01 11 00 (attached).

9. **Question:** Is detail D/840-S-14 continuous through the entire BCCT? If so, what is the distance between the break lines on 840-S-13 and 840-S-15

Answer: Yes, Section D on 840-S-14 is similar for the entire length of the BCCT between the ends that are getting demolished and modified. Distance between break lines where section D is applicable is 600'-2" as indicated on Section K of drawing 840-S-42.

10. **Question:** Please verify that the 1760-G Contract is responsible for the following:

- A.) Procurement of all Instruments on the Project
- B.) Calibration of all Instruments on the Project
- C.) Development of Loop Drawings for all Instrumentation on the Project
- D.) Field Wiring from the Instrument to the DPU
- E.) All start-up testing and commissioning of all Systems and Subsystems on the Project

Answer:

- A.) GC is responsible to furnish and install all field-mounted instruments per revised 01 11 00 1.2.B.32.
- B.) GC is responsible for the calibration of all field-mounted instruments per revised 01 11 00 1.2.B.33.
- C.) Will be addressed in a subsequent addendum.
- D.) EC shall be responsible for the wiring of all field-mounted instruments per revised 01 11 00 1.2.C.2.
- E.) Will be addressed in a subsequent addendum.

11. **Void**

12. **Question:** We are a crystalline waterproofing and anti-microbial manufacture headquartered in New York and manufactured in Allentown, PA. I was reviewing the specs for the CSO and Disinfection project where Xypex is specified and have attached the substitution request to see if we could be listed as an approved equal.

Answer: ALCOSAN will not be adding any approved/listed vendors during the bid period. Vendors/manufacturers that are not named may submit their products for consideration as an "or equal" if their product meets the requirements of the specification.

Attachments:

Specifications:

- a. Summary of Work (Section 01 11 00)
- b. Construction Facilities and Temporary Controls (Section 01 50 00)

Other:

Pre-bid meeting agenda, minutes, attendance sheet, and presentation slides

*** END OF ADDENDUM NO. 1 ***

SECTION 01 11 00
SUMMARY OF WORK

PART 1 - GENERAL

1.1 GENERAL

A. General:

1. It is the intent of the Contract Documents to describe a functionally complete project.
2. The work included in this project is at the Allegheny County Sanitary Authority (Owner) Woods Run Wastewater Treatment Plant in Pittsburgh, PA and is described in detail in the rest of this section.
3. Furnish all labor, materials, tools, equipment and services as indicated in accordance with provisions of Contract Documents.
4. Furnish and install all supplementary or miscellaneous items, appurtenances, and devices incidental to or necessary for a sound, secure, complete, and functional installation of the work.
5. In addition to this individual project, there may be construction activities underway at the plant site during part or all of the construction period for this project.
6. Work areas shall be confined to areas specifically designated for the CSO Bypass and Disinfection Project on the Site Utilization Plan.

B. Contract No. 1760 will be executed by four Prime Contractors according to the requirements of the Contract Documents. The following parties may be present at the job site and have the responsibilities described generally in Article 3, Contract Provisions:

1. ALCOSAN (Owner)
2. Construction Manager (CM) (Michael Baker International, Inc.)
3. Consulting Engineer (GHD Inc.)
4. Prime Contractor(s)
5. Fabricators and supplier(s)
6. Testing agencies
7. Commissioning firms
8. Other project stakeholders

C. Owner:

1. The Owner may be identified as the responsible entity for certain actions in the sections of Divisions 2 through 46. The Owner may elect to delegate certain of these respective duties and responsibilities to the aforementioned parties.
2. All contact between the Contractor(s) and the remaining aforementioned parties shall be through the Construction Manager.

D. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this contract. Coordinate the work of this contract with work performed under separate contracts.

1.2 WORK COVERED BY CONTRACT

- A. The work includes, but is not necessarily limited to, the following. However, this description is in no way meant to limit or restrict the work required under the contract. Refer to the Contract Drawings and the remainder of the specifications for additional detail on the Scope of the Work. All Contractors are responsible to review the entire set of Contract Documents and Contract Drawings to familiarize themselves with the entire project.
1. General Construction, Contract G.
 2. Electrical Construction, Contract E.
 3. HVAC Construction, Contract H.
 4. Plumbing Construction, Contract P.
- B. Tasks to be completed by the General Contractor will include, but will not be limited to:
1. Any and all excavation required for all work included in the Contract Documents, including test pits, with the exception of excavation for electrical duct banks.
 2. Provide excavation support and dewatering systems including all necessary utilities.
 3. Provide temporary bulkheads and weirs as required for equipment and structure installation.
 4. Site grading, landscaping, concrete, asphalt and gravel paving, bollards, curbing, erosion and sediment control provisions, and stormwater collection systems.
 5. Demolition of existing Maintenance Storage Building (850), Carpenter Shop (880), Chlorine Sampling Building (841), portions of BCCT (existing chlorine contact tank 840) including sampling structure overtop the CCT, select equipment within the primary sedimentation basins, and flow regulator chambers.
 6. Demolish one existing Area 900 sodium hypochlorite tank and relocate two existing Area 900 sodium hypochlorite storage tanks.
 7. Demolition and replacement of select existing aeration basin sluice gates.
 8. Demolition and removal of existing duct banks after power has been terminated and feeders and conductors removed by Electrical Contractor.
 9. Demolition of existing foundations for site light poles.
 10. Provide all equipment and housekeeping pads for equipment supplied by all Prime Contractors. General Contractor shall coordinate locations, sizes, and orientation with the installing contractor for the equipment to be supported on the respective pads.
 11. Provide king piles, steel sheet piles, auger-cast piles, concrete encased piles and steel casings, tie rods, rock sockets, and rock anchors.
 12. Demolition, handling, and disposal of hazardous materials identified in the Reference Information.
 13. Removal and replacement of riprap as required. Limits of removal as indicated on Contract Drawings.
 14. Construction of concrete CSO Bypass Channel, BCCT Inlet Chamber, BCCT Effluent Chamber, BCCT outfall, BCCT Dewatering Pump Station, new Outfall 002, flow regulator chambers, Bypass Disinfection Chemical Building foundation, Defoamer Building foundation, truck unloading pad, and equipment

- pads.
15. Provide Bypass Disinfection Chemical Building concrete masonry walls, doors, windows, roof and wall panels, overhead doors, stairs, handrails, and other architectural appurtenances. Provide metal fabricated stairs and walkways in BCCT area.
 16. Provide pre-engineered FRP Sampling Building and Defoamer Building.
 17. Excavation, bedding, backfilling, and thrust blocking for installation of yard piping.
 18. Provide stainless steel slide gates, cast iron sluice gates, hydraulic flushing gates, and operators.
 19. Provide security fencing.
 20. Provide existing Primary Effluent Channel aeration equipment and piping replacement.
 21. Provide new flow regulator chambers and 72-inch diameter venturi-type flow meter apparatuses including 54-inch butterfly control valves and differential pressure meters.
 22. Modifications to the existing primary treatment tanks, including new chain-and-flight mechanisms, scum troughs, and weir modifications.
 23. Provide two new sodium hypochlorite tanks in Area 900 and one new sodium hypochlorite tank in Area 865.
 24. Provide new sodium hypochlorite and sodium bisulfite pumps, valves, panels, piping, insulation and heat trace cable, defoam pumps, valves, piping, insulation, and heat trace cable.
 25. Provide Sampling Building, sample pumps, sample sink, auto samplers, sampling piping, piping insulation and heat trace cable, and chlorine analyzers.
 26. Provide Defoamer Building defoamer storage and feed system including pumps, piping, valves, and fittings.
 27. Provide low-pressure air piping and insulation, diffusers, and induction mixers.
 28. Provide BCCT access platforms, grating, stairs, and railings.
 29. Provide BCCT effluent weirs.
 30. Provide CM field office. Contractor to transfer ownership to Owner at completion of project.
 31. Furnish OEM control panels and VFDs for designated equipment, consistent with the functional control descriptions listed in the specifications.
 32. Furnish and install all field-mounted instruments and furnish all associated manufacturer's cable and wiring of sufficient length required to install and put instruments into service, consistent with the functional control descriptions listed in the specifications. All cable/wire installation shall be performed by Electrical Contractor.
 33. Provide calibration for all field mounted instruments.
 34. Furnish and install video cameras and camera equipment, including poles where applicable.
 35. Modifications to and rehabilitation of existing wastewater treatment plant facilities and systems including existing pipe gallery.
 36. Furnishing and installing subsurface and exposed pipelines, utilities and associated

- appurtenances, including hydrants and yard hydrants. Provide potable water and drain piping to within five (5) feet of the Bypass Disinfection Chemical Building and coordinate with Plumbing Contractor for continuation into building.
37. Provide any additional electrical energy required by General Contractor's means and methods for the execution of the work.
 38. Provide and maintain construction entrance on Tracy Street.
 39. Provide weekly street sweeping of areas indicated on drawings.
 40. Provide regular snow plowing as necessary of all roads, walkways, and parking lots interior to the plant.
- C. Tasks to be completed by the Electrical Contractor will include, but will not be limited to:
1. Provide yard lighting and building lighting.
 2. Wiring of all field-mounted instruments.
 3. Provide Bypass Disinfection Chemical Building MCC, VFDs, Data Processing Unit, transformer, panels, circuits, wiring, and conduit, except equipment and wiring to be provided by General Contractor as defined elsewhere.
 4. Install electrical equipment provided by the General Contractor as defined elsewhere.
 5. Provide heat trace wiring and controllers, panels, circuits, wiring, and conduit.
 6. Provide 5 kV and 15 kV duct banks (including excavation, bedding, concrete encasement, and backfill), electrical manholes, feeders, conductors, and associated conduit.
 7. Provide new lighting, including new poles and concrete foundations where applicable.
 8. Provide electrical control panels, disconnects, switches, starters, and other electrical devices in the Contract Documents. Equipment shall be consistent with the functional control descriptions listed in the Specifications.
 9. Where scheduled, terminate power and remove existing feeders and conductors prior to duct bank demolition by General Contractor.
 10. Provide grounding grids and yard cable.
 11. Provide central pipe gallery cable tray.
 12. Provide electrical wiring for all contract equipment.
 13. Provide power to all field office trailers.
 14. Provide any additional electrical energy required by Electrical Contractor's means and methods for the execution of the work.
 15. Wiring of Power Over Ethernet for video cameras and installation of network switches and enclosures.
- D. Tasks to be completed by the HVAC Contractor will include, but will not be limited to:
1. Provide fans, air handlers, heat pumps, make-up air units, unit heaters, fan coil units, positive pressurized units, and HVAC units.
 2. Provide louvers, diffusers, registers, grilles, and ductwork.
 3. Provide piping between and from HVAC equipment.
 4. Demolish HVAC equipment within building area 842 including fans, make up air unit, ductwork, louvers, and grilles.

5. Provide any additional electrical energy required by HVAC Contractor's means and methods for the execution of the work.
- E. Tasks to be completed by the Plumbing Contractor will include, but will not be limited to:
1. Provide potable water main to Bypass Disinfection Chemical Building (within 5 feet from the building) and coordinate with General Contractor for continuation of piping within the yard.
 2. Provide Bypass Disinfection Chemical Building plumbing supply piping, valves and supports, backflow preventers, water heaters, hose bibbs, wall hydrants, and emergency eyewash/showers.
 3. Provide floor drains, cleanouts, vents, and sanitary sewer piping to the connection point with other contracts (within 5 feet from the building).
 4. Provide Defoamer Building plumbing supply piping and emergency eyewash/shower.
 5. Provide Bypass Disinfection Chemical Building sprinkler system piping, valves, and supports.
 6. Furnish and install fire alarm equipment ready for wiring by Electrical Contractor.
 7. Provide insulation and jacket for potable water pipes, fittings, valves, and equipment.
 8. Provide any additional electrical energy required by Plumbing Contractor's means and methods for the execution of the work
 9. Provide water and sanitary sewer connections to all field office trailers, including other Primes and CM.

1.3 WORK SEQUENCE

- A. Organize and plan the construction activities to assure the safety and reliability of and to minimize the interruption to the plant operations and performance.
- B. The proposed work sequence shall be submitted to the CM in accordance with Section 01 32 16, Construction Progress Schedule.

1.4 WORK BY OWNER

- A. Owner's Responsibilities:
1. Operation of all valves and gates as needed to complete work.
 2. Draining, to Owner standards, of primary sedimentation tanks needed to complete chain-and-flight, weir modification, and associated work.
 3. Draining, to Owner standards, of aeration tanks needed to complete slide gate replacement and associated work.
 4. Draining, to Owner standards, process piping by gravity to facilitate Contractor dewatering needed to complete work.

1.5 OWNER OCCUPANCY

- A. Owner will occupy the premises during the entire period of construction for the conduct of his normal operations. Coordinate with Owner in all construction operations to minimize conflicts and to facilitate Owner usage.

- B. Execute Certificate of Substantial Completion for each area all systems installed and commissioned as described in Article 1.2.
 - 1. After Owner occupancy, allow:
 - a. Access for Owner's personnel.
 - b. Access for the public.
 - c. Operation of area process, HVAC, plumbing and electrical systems.
 - 2. After occupancy, Owner will provide:
 - a. Contractor access to finish punch list items.
 - b. Access to area process, HVAC, plumbing, and electrical systems for Contractors to perform warranty work.

1.6 OUTAGES

- A. Organize and plan the construction activities so that the number and length of any required outages shall be minimized.
- B. An outage to any customer shall require specific approval of the Owner. The Owner reserves the right to reject any request for an outage.
- C. In some cases, it may be necessary, at Contractor's expense, to either install temporary facilities for service or schedule the work during a period when the outage would have minimal impact on the Owner.
- D. Provide the Owner at least 14 days' notice in advance of any requested outage so that the Owner may advise and coordinate the outage with the customers.

1.7 OWNER-FURNISHED PRODUCTS

- A. Products furnished and paid for by Owner shall be as follows:

Product	Comment	Section
Two existing temporary sodium hypochlorite tanks	Contractor shall relocate from the existing temporary sodium hypochlorite area and install in the new Bypass Disinfection Chemical Building as Tanks THS001-865 and THS002-865	Section 43 41 45, Fiberglass Reinforced Plastic Tanks
DCS Equipment	Contractor shall install equipment as shown on the Drawings	Section 40 63 43, Distributed Control System (DCS)

1.8 CONTRACTOR-FURNISHED PRODUCTS

- A. Furnish all products other than Owner-furnished products designated above.
- B. Components required to be supplied in quantity within a specification section shall all be the same and shall be interchangeable.
- C. Unless otherwise indicated in the Contract Documents, provide materials and equipment that:
 - 1. Are produced by reputable manufacturers having adequate experience in the manufacture of these items;

2. Are designed for the service intended;
3. Have not been previously incorporated into another project or facility;
4. Have not changed ownership since their initial production or fabrication and shipment from the manufacturer's factory or facility;
5. If stored since their manufacture or fabrication, have, while in storage, been properly maintained and serviced in accordance with the manufacturer's recommendations for long-term storage. Submit documentation under the relevant technical section that such maintenance and service has been performed.
6. Have not been subject to degradation or deterioration since manufacture.
7. Are the current model(s) or type(s) furnished by the supplier and only modified as necessary to comply with the design.

1.9 UNDERGROUND UTILITIES

- A. Notify Call Before You Dig at 811 or 800-242-1776 before excavation.
- B. Consult Steve Miller of ALCOSAN Engineering Department for access to underground utility record drawings.
- C. Utilities known to the Engineer who have underground facilities in the vicinity of the work may be contacted as follows:
 1. Windstream 855-849-5248
 2. CenturyLink 610-572-4887

1.10 PERMITS AND LICENSES

- A. The Owner has applied for and obtained, at Owner's expense, the following permits and approvals for the work:
 1. U.S. Department of the Army Permit No. LRP-2017-1183 for work on the river wall along the Ohio River.
- B. Obtain all other permits and licenses necessary for the construction of the work in accordance with Article 3.11 of the General Conditions.

1.11 ACCESS BY GOVERNMENT OFFICIALS

- A. Authorized representatives of governmental agencies shall at all times have access to the work.

1.12 FENCES

- A. All fences affected by the work shall be maintained by the Contractor until completion of the work. Fences disturbed by the construction shall be restored immediately by the Contractor to their original or better condition and to their original location unless otherwise indicated or directed.

1.13 LEAD- AND ASBESTOS-CONTAINING MATERIALS (ACM)

- A. Lead containing paint may be present at the site and are within the scope of the work for which Contractor shall be responsible. Lead containing paint removal must be performed within compliance with EPA regulations. Should lead-based paint be discovered, stop work in the area of possible contamination and notify Owner.

- B. Materials containing less than or equal to 1 percent asbestos may be present in the work area. Handling/removal of this material must be performed within compliance with any applicable EPA or OSHA regulations. ACM is not expected in the work area. Should ACM be discovered, stop work in the area of possible contamination and notify Owner.

1.14 CONFINED SPACES

- A. All work involving confined space entry will be in accordance with 29 CFR 1910.146. The Owner has adopted a Permit Required Confined Space Entry Program for its employees in accordance with OSHA requirements found at 29 CFR 1910.146. This permit Required Confined Space Entry Program must be adopted by the Contractor if its employees will be working in confined spaces. No Contractor employee shall be permitted to enter a "Permit Required Confined Space" as defined in 29 CFR 1910.146 without having complied with all of the requirements of said regulations, including the sign-off on the "Owner On-Site Confined Space Entry Permit" adopted by the Contractor. The Contractor shall have gas detection equipment, which is capable of detecting combustibles, oxygen, hydrogen sulfide, and carbon monoxide.
- B. The following work areas within the contract are defined as Confined Space:
 - 1. Primary sedimentation tanks.
 - 2. Flow regulator chambers.
 - 3. Dewatering Pump Station
 - 4. Bypass Chlorine Contact Tank
- C. The Contractor shall comply with the requirements of the applicable Permit Required Confined Space Entry Program whenever the potential exists that work in such spaces could be hazardous. Any work involving confined space entry will be in accordance with OSHA requirements as presented in 29 CFR 1910.146. Contractor's personnel must not enter any areas identified by Owner as confined spaces without first receiving written approval from the responsible Owner Shift Superintendent and without first having complied with all the requirements of said regulations. This includes the sign-off on the "Owner On-Site Confined Space Entry Permit" or equivalent permit adopted by the Contractor.
- D. If confined space entry is required, the Contractor shall supply personal protective equipment (PPE) and gas detection equipment, which is capable of detecting combustibles, oxygen, hydrogen sulfide and carbon monoxide.
- E. The Contractor shall identify to the Construction Manager any new confined or enclosed space that is created as a result of the performance of the contract work. The Contractor shall comply with the requirements of the applicable permit-required confined space entry program whenever the potential exists that work in such spaces could be hazardous

1.15 DESCRIPTION OF PROJECT PERSONNEL AND THEIR RESPONSIBILITIES

- A. Contractor's Personnel: As described in these Contract Documents and as follows:
 - 1. Project Manager and Site Superintendent must be on site at all times when work in individual contract area is proceeding. The Owner reserves the right to approve the

Contractor's proposed Project Manager and Site Superintendent. If at any time during the execution of the Contract the Owner determines that the Contractor's Project Manager or Site Superintendent is not executing the work in conformance with the Contract Documents, the Owner may request in writing that he/she be replaced. Contractor will not replace the Project Manager or Site Superintendent without written notice to Construction Manager except under extraordinary circumstances. The Project Manager or Site Superintendent will be Contractor's representative at the site and shall have the authority to act on behalf of Contractor. All communications to the Project Manager or Site Superintendent shall be as binding as if given to Contractor. If at any time during the Project the Project Manager or Site Superintendent must leave the project site while work is in progress, the Construction Manager shall be notified and provided with the name of the Contractor's representative having responsible charge.

2. Quality Control Representative will be responsible for Contractor's quality control program while work is in progress. Notify the Construction Manager of any change in quality control assignment.
3. Safety and Protection Representative:
 - a. Contractor shall designate a qualified and experienced Safety Representative at the site whose duties and responsibilities shall be to prevent accidents and to maintain and supervise the implementation of the Contractor's Safety Plan. The Safety Representative shall be trained in First Aid and CPR. The Safety Representative's qualifications shall be submitted to the Construction Manager prior to beginning work on site.
 - b. Initiate, maintain, and supervise the safety plan in connection with the work. Take all necessary precautions for safety and provide for the necessary protection to prevent damage, injury, or loss to:
 - 1) All persons on the work site or who may be affected by the work;
 - 2) All the work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
 - 3) Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and underground facilities not designated for removal, relocation, or replacement in the course of construction.
 - c. Comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss.
 - d. Before any work at the site is started, the Contractor shall prepare a written project-site specific Safety Plan and submit to the Construction Manager for record. The Site-specific Safety Plan must follow the template (Appendix A) attached to this specification. If it does not, the Owner reserves the right to return it for revisions.
 - e. The Safety Representative shall revise the Safety Plan at appropriate times to reflect changes in construction conditions, the work, Contractor's means, methods, techniques, sequences and procedures of construction. The Safety Representative will submit the revised Safety Plan to the Construction Manager

- for record.
- f. Contractor's personnel are obligated to act, without direction or authorization from Owner or Construction Manager, to prevent any potential injury or property loss when confronted with any emergency situation affecting the safety or protection of persons or the work or property at the site or adjacent thereto.
 - g. Contractor shall give Construction Manager prompt written notice if Contractor believes that any significant changes in the work or variations from the Contract Documents have been caused by any unforeseen emergency situation. If Construction Manager determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, Construction Manager will proceed in accordance with Article 3, Contract Provisions.
 - h. In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, each Contractor, without special instruction or authorization from Owner or Construction Manager, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give Construction Manager prompt written notice if Contractor believes that any significant changes in the work or variations from the Contract Documents have been caused thereby. If Construction Manager determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, Construction Manager will proceed in accordance with Article 3, General Contract Conditions.
 - i. Contractor shall take precautions to prevent any materials related to the work from falling into active process tanks such as the aeration basins, secondary clarifiers, primary sedimentation basins, etc. It will be the Contractor's responsibility to retrieve any such debris at his own expense with assistance from ALCOSAN. Contractor may be back-charged ALCOSAN's costs for assistance in retrieving Contractor debris from process tanks.
- B. Owner: As described in these Contract Documents and as follows:
- 1. Can enter into legal contract with Contractor for completion of the work.
 - 2. Can approve contract amendments, progress payments, and make final acceptance of the work.
 - 3. Can participate in coordination of site construction activities.
 - 4. Can participate in training, testing and startup activities.
- C. Construction Manager (CM): As described in these Contract Documents and as follows:
- 1. Inspect and monitor Contractor progress and quality of work during all structural, mechanical and electrical construction work.
 - 2. Contractor shall provide all required assistance for the CM's inspection of the work.
 - 3. Make available for the use of Contractor, copies of all existing information in the possession of the Construction Manager, which may be pertinent to the performance of Contractor services under the Scope of work
 - 4. Assist Contractor in obtaining access to all work sites through within the plant.

5. Provide on-site representative and construction inspection services
 6. Coordinate training, testing and startup activities.
- D. Engineer: As described in these Contract Documents and as follows:
1. Performs weekly site inspections.
 2. Provides engineering support services including RFI responses.
 3. Reviews technical submittals and shop drawings.
 4. Prepares drawing revisions and cost estimates.
 5. Provides drawing and submittal control.
 6. Provides technical supervision of startup activities
 7. Assists in training, testing and startup activities.
- E. Supplier (Material and Equipment): As described in these Contract Documents and as follows:
1. Will provide submittals and operation and maintenance manuals for equipment and material as specified.
 2. Will perform on-site training
 3. Will provide commissioning and start up services
 4. Will provide engineering support services during commissioning

PART 2 - PRODUCTS - (NOT USED)

PART 3 - EXECUTION - (NOT USED)

END OF SECTION

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SITE SPECIFIC SAFETY PLAN (SSSP) TEMPLATE

Cover Page

- Company Name
- Address or coordinates
- Site Specific Safety Plan
- Project Name/Number
- Date

Table of Contents

1. Purpose

2. Scope of Work

- a. Identify steps of the work
- b. Hours of Operation Project

3. Site Specific Safety Plan

- a. Spill Leak Prevention and Response
 - i. Identify location of Chemical Inventory (SDSs) – ex: Tool Trailer, Job Office, Foreman Truck
- b. Hazard Recognition and Mitigation (Define *all project* hazards and steps to mitigate)
 - i. **Examples:**
 - a) Hot Work
 - b) Confined Space Entry
 - c) Fall Hazard Control and Protection
 - d) Arc Flash Protection (70E) using correct PPE
 - c. Minimum Required PPE
 - d. Fire Control
 - e. Dust Control
 - f. Housekeeping Program
 - g. Evacuation Plan
 - h. Rescue Plan (if applicable)
 - i. Traffic Control – School Bus Curfews, Speed Limits, etc.
 - j. Utility Locate Verification (if applicable)
 - k. COVID-19 Plan (consistent with ALCOSAN protocols)

4. Contact information – Names / Contact Info.

- a. Contractor
 - i. Operations Manager
 - ii. Project Supervisor
 - iii. Safety Manager
 - iv. Foreman
- b. Subcontractor(s)

SITE SPECIFIC SAFETY PLAN (SSSP) TEMPLATE

- i. List Company Name and Contact Person
- c. Alcosan
 - i. Engineers
 - ii. Construction Manager
 - iii. Loss Control Manager
 - iv. Safety Specialist
 - v. Security

5. Injury and Incident Response Plan

- a. Owner Emergency Procedures/Notification
 - i. All cases
 - ii. First aid cases
 - iii. Severed or life-threatening injuries
- b. Important information
 - i. GPS Coordinates
 - ii. Emergency Contact Information
 - a) Hospital(s) Contact Information
 - a. Map – Route to Hospital

6. Training – What types of work should include specific regulatory training

- a. Examples:
 - i. Hot work
 - ii. Confined Space
 - iii. Fall Protection
 - iv. Hazard Communication
 - v. LOTO
 - vi. Housekeeping
 - vii. Equipment

7. Acknowledgment Form

- a. “I acknowledge the SSSP for _____ has been reviewed and explained to me”

Note: Plan to be reviewed with General Contractor and Subcontractors

- i. Print name
- ii. Signatures
- iii. Date

8. Attachments

- a. Training Documents for specific work listed
- b. Safety Data Sheets (SDS) for all chemicals brought onto site
- c. Proof of CCO certification for all crane operators
- d. Required blank (contractor owned) forms to be completed
 - i. Examples:
 - a) Hot Work

SITE SPECIFIC SAFETY PLAN (SSSP) TEMPLATE

- b) Tailgate Safety Meeting (TSM) / Job Safety Analysis (JSA)
- c) Confined Space Entry
- d) Excavation Daily Inspection
- e) LOTO

9. Additional Comments/Notes

SECTION 01 50 00

CONSTRUCTION FACILITIES, TEMPORARY CONTROLS AND UTILITIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Furnish labor, materials, tools, equipment, and services for construction facilities, temporary controls and utilities, as indicated, in accordance with provisions of Contract Documents.
- B. Completely coordinate with work of other trades and Owner.
- C. Comply with the ALCOSAN Contract No. 1760, CSO Bypass and Disinfection, "Contractor Personnel and Delivery Control Procedure" attached to this section (Attachment A).

1.2 SUBMITTALS

- A. Administrative Submittals: Copies of permits and approvals for construction as required by Laws and Regulations, the Contract Documents, and governing agencies.
- B. Shop Drawings: Contractor shall provide the following:
 - 1. Temporary Utility Submittals:
 - a. Electric power supply and distribution plans.
 - b. Temporary utility relocation plans to accommodate plan relocation and/or Prime Contractor's temporary facilities/earth support for installation of planned work.
 - 2. Temporary Construction Submittals:
 - a. Contractor's field office, storage yard, and storage building plans, including gravel surfaced area.
 - b. Staging area location plan.
 - c. Plan for maintenance of existing plant operations.
 - 3. Temporary Control Submittals:
 - a. Noise, traffic, dust and access control plans.
 - b. Plan for disposal of waste materials.

1.3 MOBILIZATION

- A. Staging areas are designated on the Overall Laydown Storage and Site Access Plan within the Contract Drawings. The Contractor will be responsible to coordinate any required additional locations for staging of equipment, materials, and parking with the Construction Manager.
- B. Use of Premises:
 - 1. Separate areas will be designated for the Contractors' office and storage trailers, staging areas, and the Contractors' employee parking areas. The Contractor (and Subcontractors) shall use these areas only and shall not park at other areas of the plant site, including access roads, except to receive deliveries of materials. All plant roadways must be kept open at all times to allow for plant deliveries and

normal operations of the plant personnel.

- C. The Contractor shall coordinate the individual mobilization activities within this contract package. Mobilization shall include, but not be limited to, these principal items:
 - 1. Obtaining necessary permits as may be required.
 - 2. Moving Contractors' temporary facilities onto site.
 - 3. Providing onsite communication facilities.
 - 4. Submitting required schedules, submittals, etc.
 - 5. Arranging for and erection of Contractors' work and storage yard.
 - 6. Posting OSHA required notices and establishing safety programs and procedures.
 - 7. Having the Contractors' Project Manager and/or Superintendent at the site full time during the period when work in the individual Contract is proceeding.
 - 8. Early construction activities such as structural, mechanical and electrical demolition.

1.4 CONTRACTOR USE OF PREMISES

- A. Property for use by the Contractor outside of ALCOSAN property is not furnished by the Owner for the Contractor to perform the work associated with this project. The Contractor is responsible to document coordination and approval of the ALCOSAN work site prior to mobilization.
- B. Premises furnished by Owner upon which the Contractor shall perform the work are described below:
 - 1. Contractor shall coordinate use of premises with the Construction Manager and shall assume properties on which Contract work takes place will be temporarily transferred to the custody of the Contractor. The Contractor then becomes responsible for all site activities except for those O&M activities which ALCOSAN staff must perform and for which purpose the Contractor will facilitate continuous access. Uses of premises includes, but is not limited to:
 - a. Use the area(s) designated for Contractors' temporary facilities as shown on the Contract Drawings and directed by Construction Manager

1.5 RESPONSIBILITIES

- A. The Prime Contractors shall provide whatever temporary facilities and controls as may be needed in their disciplines (as specified throughout this Section) for use by all Contractors and Subcontractors in this contract package at the site or sites of the work until the project is complete, on an as needed basis, and the project facilities are placed under the Owner's operation.
- B. The Prime Contractors shall remove temporary facilities and controls in their disciplines and restore the affected area(s) when the temporary facilities and controls are no longer needed or required by Contract Time and extensions thereof.
- C. The Prime Contractors shall include in the Bid the costs associated with the temporary utilities, facilities and controls provided in their respective contract and required by their means and methods in the execution of the work and subject to this specification section.

- D. The Owner will pay for Prime Contractors' utilities consumption.
- E. When shown on the plans or required by specification, relocation of utilities and appurtenances that impact finished work shall be the sole responsibility of the respective Prime Contractor described in Specification 01 11 00. In the event utilities and appurtenances require support and/or relocation for the convenience of the Prime Contractor's temporary facilities and/or support of earth, it shall be that Prime Contractor's responsibility to pay all support and/or relocation costs.

1.6 PERMITS

- A. Permits, Licenses, or Approvals: Contractor shall obtain (and retain on site) any permits, licenses, and approvals necessary for the completion of the work as identified in this document, including but not necessarily limited to:
 - 1. City of Pittsburgh Building permits for all applicable sub codes.
 - 2. The General Contractor shall obtain and pay for the City of Pittsburgh and Allegheny County Health Department Asbestos Abatement and Demolition Permits for removal of asbestos covered piping, if encountered.
 - 3. The General Contractor shall obtain and pay for the City of Pittsburgh and Allegheny County Health Department permits for the removal of lead-based paint, if encountered, and any other required permits.
 - 4. The General Contractor shall obtain and pay for the City of Pittsburgh and Commonwealth of PA Department of Labor and Industry elevator permits.
 - 5. Each Prime Contractor shall install all facilities required under that permit in accordance with the Contract Drawings. The Drawings and Specifications associated with the permit shall be available at the Contractor's Office for review.
 - 6. Each Prime Contractor shall obtain and pay for the City of Pittsburgh Building permit required for execution of the Contractor's work. The Owner has paid \$6,024.50 toward a plan review. This amount will be credited to the General Contractor's Building Permit amount.
- B. The Owner will obtain any permits required by the regulating agencies of the State of Pennsylvania and the United States of America. The Construction Manager will coordinate required Owner signatures on Contractor permit applications.

1.7 QUALITY ASSURANCE

- A. Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to following:
 - 1. NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations.
 - 2. International Building Code, Chapter 33, Safeguards During Construction.
 - 3. Local building codes.
 - 4. Health and safety regulations.
 - 5. Utility company regulations.
 - 6. Police, fire and rescue rules.
 - 7. Environmental protection regulations.
 - 8. Local agencies requirements and regulations.

- B. Maintain required exits, existing structural elements, fire protection devices and sanitary safeguards during remodeling, alterations, repairs or additions to any building or structure, except; make adequate substitute provisions when such required elements or devices are being remodeled, altered or repaired, or when existing building is not occupied.
- C. Arrange for authorities having jurisdiction to inspect and test each temporary utility before use.
- D. Obtain and include in base bid certifications, permits for temporary utilities, fees, labor and materials for necessary services.
- E. Locate facilities to serve Project adequately and result in minimum interference with performance of work.
- F. Relocate and modify facilities as required.

1.8 TEMPORARY UTILITIES – GENERAL NOTES

- A. Unless otherwise specified, the Contractor is responsible and pays for the installation of the temporary utility system.
- B. Telephone Service:
 - 1. Contractor shall arrange and provide for onsite telephone service for Contractor use during construction Contractor shall pay for the cost of installation, equipment and monthly bills. No incoming calls to the Contractor will be allowed via the Owners telephone system.
- C. Maintain temporary services and facilities clean and neat in appearance, including those furnished or provided by Owner for Contractor's use.
- D. Coordinate with Owner to relocate temporary services and facilities as work progresses.
- E. Do not overload facilities or permit them to interfere with progress.
- F. Take necessary fire prevention measures.
- G. Preclude hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on site.
- H. Prepare schedule indicating dates for implementation, shutdowns, tie-ins, and termination of each temporary utility and coordinate with Owner.
- I. At earliest possible time, when acceptable to Owner, change over from use of temporary service to use of permanent service.
- J. Remove temporary equipment and connections and leave premises and existing permanent apparatus in an equivalent condition as existed prior to making temporary connections.
 - 1. Service utility connections shall be discontinued and capped in accordance with the approved rules and the requirements of the authority having jurisdiction.
 - 2. At completion of work, remove and replace damaged parts of permanent systems.
- K. Extend warranty or guarantee period on permanent systems used during construction

period so they commence on date of Substantial Completion.

- L. Abuse of any Owner-paid utility by the Contractor will warrant to the Owner the right to discontinue use of said utility and force the Contractor to supply said utility needs.

1.9 WEATHER PROTECTION

- A. Prior to enclosure of building, provide temporary heating, ventilation, and cooling as required to perform work activities.
- B. Provide temporary insulated weathertight closure of exterior openings to accommodate acceptable working conditions and protection for products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual Sections and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.10 TEMPORARY HEATING, VENTILATION, AND COOLING

- A. Maintain temperature of spaces where concrete is being placed or cured as well as other temperature and humidity sensitive operations (i.e. painting). See Section 03 31 31, Concrete Mixing, Placing, Jointing, and Curing and Division 09 - Finishes
- B. Provide temporary heating, ventilation, and cooling equipment; and provide temporary heating ventilation, and cooling as required to perform work.
 - 1. Substantially complete exterior envelope prior to start of energy systems.
 - 2. Make temporary electrical connections and disconnect temporary connections at completion of temporary heating, ventilation and cooling period.
 - 3. Operate system, furnishing necessary labor and supervision.
 - 4. Maintain interior temperature and humidity at service temperature and service humidity for at least 48 hours prior to, concrete slab moisture emission and relative humidity testing, and continue through placement of interior finishes, and until Substantial Completion. Heating units shall be vented.
 - a. Provide temperature and humidity range required by interior-finish manufacturer's instructions.
- C. Select equipment that is harmless on occupants, elements being installed and completed installations.
- D. Coordinate requirements to produce condition required and minimize consumption of energy.
- E. Provide adequate forced ventilation of enclosed areas for welding, painting, curing of installed materials and fume producing equipment, to disperse humidity, and to prevent hazardous accumulations of dust, fumes, vapors, or gases.
- F. Prior to operation of permanent equipment for temporary heating purposes, verify that installation is acceptable for operation, equipment is lubricated, and filters are in place.
- G. Provide and pay for operation, maintenance and regular replacement of filters, and worn or consumed parts.
- H. Use devices complying with codes and ordinances.

1.11 TEMPORARY ELECTRICITY AND LIGHTING

A. Electrical Energy:

1. The Owner shall make available a 480-volt power supply for use by the project.
2. During the construction phase of this contract, some existing power distribution equipment, located within the contract area, will be required to be de-energized and/or removed. It will be the Electrical Contractor's responsibility to supply and maintain a temporary electrical service to equipment requiring electrical service, and/or replacement in order to maintain plant operations per Specification 01 52 00. Unless noted otherwise, equipment requiring electrical service is not limited to just the specific pieces of equipment shown or stated in the contract documents, but to all loads serviced by the de-energized and/or removed distribution equipment.
3. The Electrical Contractor shall provide and pay for all temporary wiring switches and connections required as shown per plan. Any other temporary wiring and connections not shown or required for other Prime Contractor's means and methods in execution of the work shall be the responsibility of that Prime Contractor.
4. All temporary electrical installations shall be removed by the respective prime Contractor that installed the temporary installation as referenced in the previous paragraph at the time required by construction scheduling or upon completion of the contract work, at no additional cost to Owner.
5. Each Prime Contractor may provide portable electrical generating equipment for electrical requirements as long as said equipment complies with federal, state and local environments regulations.
6. Electrical Contractor shall be responsible for providing power to all field office trailers onsite.

B. Lighting:

1. The Electrical Contractor shall provide sufficient electric lighting where needed so that all work may be done in a workmanlike manner when there is not sufficient daylight and in accordance with OSHA guidelines

1.12 TEMPORARY WATER

- A. Water for construction purposes shall be obtained from the existing water system as directed by the Construction Manager. The General Contractor will provide temporary facilities and piping required to bring water to the point of use and remove them when no longer required. The Owner will pay for water used for construction purposes.
- B. Each Prime Contractor shall furnish drinking water for Contractor personnel connected with their work.

1.13 TEMPORARY SANITARY FACILITIES

- A. The Contractor is advised that the work to be performed under the contract is in an operating sewage system. The Contractor is advised that it should consider all factors that may affect employee hygiene, including, but not limited to, air quality, ventilation, contact with process liquids, chemicals and other elements of the

environment

- B. The Contractor must take all precautions required for compliance with all applicable regulatory requirements and as necessary to provide an appropriate hygiene program for its employees.
- C. Provide temporary sanitary facilities for use of construction workers during construction, remodeling or demolition activities. Owner will not provide nor maintain sanitary facilities for the Contractor workforce.
- D. Use of Owner's existing sanitary facilities will not be allowed.
- E. Provide toilet facilities complying with local, State and Federal sanitary laws and regulations.
- F. Maintain and service in clean and sanitary condition.
- G. Provide adequate supplies of toilet paper, cleaning and other required items.

1.14 TEMPORARY OWNER STAFF PROTECTION

- A. Protect Owner staff from injury due to construction activities by temporary barriers or covered walkways or both, and by construction railings in accordance with following guidelines:
 - 1. Provide temporary barrier and covered walkway when distance from construction activities is not more than one-fourth height of construction.
 - 2. Provide temporary barrier protection when distance from construction activities is between one-fourth and one-half height of construction.
 - 3. Provide temporary construction railings when distance from construction activities exceeds one-half height of construction.
- B. Provide signage to direct pedestrian traffic.
- C. Provide walkway staff to travel in front of construction site, or as directed by authority having jurisdiction.
 - 1. Provide walkways minimum 4 feet in width.
 - a. Increase width as required to accommodate pedestrian traffic.
 - 2. Provide walkways in accordance with governing Accessibility Code with well-drained, durable non-slip walking surface.
 - 3. Design walkways to support imposed loads no less than a design live load of 150 psf.
 - 4. Provide construction railings minimum 42 inches in height.
 - a. Railings direct pedestrians around construction areas.
- D. Install barriers minimum of 8 feet in height on side of walkway nearest construction.
 - 1. Extend barriers entire length or width of construction site.
 - 2. Protect pedestrian openings in barriers with doors or gates which shall be accessible only by Owner, Contractor and authorized visitors.
 - 3. Design barriers to resist loads required in accordance with International Building Code, Chapter 33.

- E. Erect covered walkway with minimum clear height of 8 feet measured from floor surface to canopy overhead.
 - 1. Extend covered walkway entire length or width of construction site for safe, protected passage of individual persons along adjacent public streets.
 - 2. Provide as minimum protective plywood sheathed enclosure walls.
 - 3. Provide adequate lighting and warning signs.
 - 4. Designed to support imposed loads in accordance with International Building Code, Chapter 33 and requirements of authorities having jurisdiction.
- F. Protect pedestrian traffic by directional barricades where walkway extends into street or drives.
 - 1. Construct directional barricade of sufficient size and construction to direct vehicular traffic away from pedestrian path.
- G. Pedestrian protection shall be maintained in place and kept in good order for entire length of time pedestrians may be endangered.
 - 1. Upon completion of construction activity, immediately remove walkways, debris and other obstructions and leave such property in as good a condition as it was before such work was commenced.
- H. Enclose excavations on a site located 5 feet or less from street lot line with a barrier not less than 6 feet high.
 - 1. Where located more than 5 feet from the street lot line, erect a barrier as required by authorities having jurisdiction.
 - 2. Resist wind pressure specific to location.

1.15 PARKING AREAS

- A. Contractor shall control vehicular parking, subject to the Construction Manager's approval, to preclude interference with plant traffic or parking, access by emergency vehicles, Owner's operations, or other concurrent construction operations.
- B. The Construction Manager will coordinate parking facilities for the Contractor's employees working on the Project. The Contractor's employees or equipment parking will not be permitted on the Owner's site unless written permission has been granted by the Construction Manager. Contractors' equipment will only be allowed on Owner's property when the equipment is being utilized on this project.
- C. Each Prime Contractor is allowed a maximum of two Contractor vehicles to be parked or driven onto the Owner's plant site and must be registered with the main gate guardhouse to receive a vehicle identification tag. Vehicle identification must be displayed whenever the vehicles are on the site.
- E. Owner may adjust Contractor and subcontractor allowances for vehicular parking dependent upon Contractor compliance with contract requirements for parking and staging areas, plant traffic, access for emergency vehicles, Owner's operations and maintenance needs, or other concurrent construction operations.

1.16 PROTECTION OF WORK AND OWNER PROPERTY

- A. Perform all work within contract limits in a systematic manner that minimizes

inconvenience to the Owner's operations.

- B. Wherever completion of work requires the temporary or permanent removal and/or relocation of an existing utility, coordinate all activities and perform all work to the satisfaction of the Construction Manager. Keep all valves and other controls required for regular operations of the Owner's facilities free from obstruction and available for use at all times.
- C. Finished Construction:
 - 1. Protect finished floors, walls and ceilings, architectural items, doors and windows, and all other finished work as necessary until work is completed.
- D. Provide approved containers for collection and disposal of waste materials, debris, and rubbish. At least at weekly intervals, dispose of such waste materials, debris, and rubbish off site.
- E. When requested by the Construction Manager, Contractor will clean work areas, pick up and properly dispose of all debris.

1.17 PROTECTION OF ADJOINING PROPERTY

- A. Protect adjoining public and private property from damage during construction, remodeling and demolition work.
 - 1. Protect footings, foundations, party walls, chimneys, skylights and roofs.
 - 2. Control water runoff and erosion during construction or demolition activities.
 - 3. Provide written notice to owners of adjoining properties advising of construction plans and excavations to be undertaken 14 calendar days prior to the scheduled date of excavation.
- B. Comply with all health, safety and environmental laws in the General Contract Conditions while on the Owner's property.
- C. Inform the Construction Manager of accidents resulting in personal injury or damage to Owner's facilities on the site or damage to other public or private property, as well as, related claims.
- D. Use of Explosives:
 - 1. No blasting or use of explosives will be allowed on the site
- E. During the performance of the work, the Contractor shall adapt his/her means, methods, techniques, sequences and procedures of construction so as to allow the Owner to maintain the plant's operation at the existing level of wastewater treatment. In performing such work, and in cooperating with the Owner to maintain operations, it may be necessary for the Contractor to plan for, design, and install various temporary services, utilities, temporary piping, heating, access, and similar items which will be included within the Contract Price.

1.18 TEMPORARY STORAGE AND STAGING AREAS

- A. Store and place construction equipment and materials so as not to endanger public, workers or adjoining property for duration of project.
- B. Comply with provisions of authority having jurisdiction for temporary use of streets or

public property for storage or handling of materials or of equipment required for construction or demolition, and the protection provided to the public shall.

- C. Construction materials and equipment shall not be placed or stored so as to obstruct access to fire hydrants, standpipes, fire or police alarm boxes, catch basins or manholes, nor shall such material or equipment be located within 20 feet of a street intersection, or placed so as to obstruct normal observations of traffic signals or to hinder the use of public transit loading platforms.
- D. Building materials, fences, sheds or obstruction of any kind shall not be placed so as to obstruct free approach to any fire hydrant, fire department connection, utility pole, manhole, fire alarm box or catch basin, or so as to interfere with the passage of water in gutter. Protection against damage shall be provided to such utility fixtures during the progress of work, but sight of them shall not be obstructed.
- E. Prior to start of work, meet with installers to arrange and prepare plotted plan defining staging, storage, field office and traffic areas.
 - 1. Obtain Owner's approval of plan.
 - 2. Except as specifically provided, working and storing outside these areas will not be permitted.
 - 3. Arrange and locate temporary structures and storage to avoid interfering with construction.
- F. Within area designated for Contractor and subcontractor's use, Contractor and subcontractors shall provide suitable and sufficient enclosed and covered spaces, with raised flooring, to protect materials and equipment from damage by weather or construction work.
 - 1. Maintain storage and working areas in clean and orderly condition.
- G. Temporary Storage Facilities: Contractor shall construct temporary storage facilities so that stored equipment and materials are not subject to damage by weather conditions.

1.19 TEMPORARY FIRE EXTINGUISHERS

- A. Structures under construction, alteration or demolition shall be provided with not less than one approved portable fire extinguisher and sized for not less than ordinary hazard as follows:
 - 1. At each stairway on floor levels where combustible materials have accumulated.
 - 2. At each storage, construction shed and temporary construction office.
 - 3. Provide additional portable fire extinguishers where special hazards exist, such as storage and use of flammable and combustible liquids.
- B. Strictly observe provisions of codes to safeguard against fire hazards attendant upon construction operations.

1.20 TEMPORARY STAIRWAYS

- A. Provide stairways required for access and egress from construction.
- B. Where a building has been constructed to a height greater than 50 feet or four stories, or where an existing building exceeding 50 feet in height is altered, at least one

temporary lighted stairway shall be provided unless one or more of the permanent stairways are erected and lighted as construction progresses.

- C. Required means of egress shall be maintained at all times during construction, demolition, remodeling or alterations and additions to any building.

1.21 AUTOMATIC SPRINKLER SYSTEM

- A. In buildings where an automatic sprinkler system is required by Code, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved.
- B. Operation of sprinkler control valves shall be permitted only by properly authorized personnel and shall be accompanied by notification of duly designated parties.
 - 1. When sprinkler protection is being regularly turned off and on to facilitate connection of newly completed segments, the sprinkler control valves shall be checked at end of each work period to ascertain that protection is in service.

1.22 TEMPORARY FENCES AND BARRICADES

- A. Furnish, install and maintain temporary fences, barricades, trench and hole covers, warning lights and safety devices necessary to prevent injury to persons and damage to property.
 - 1. Provide padlocks manufactured by Knox keyed to the Fire Department keying system to the construction areas.
 - 2. Provide 24-foot wide gates to facilitate Fire Department access.
 - 3. Fire Department apparatus shall be able to turn into construction site in one turn.
- B. Contractor is responsible to design construction barricades and fences with proper sizes of members and with adequate supports to protect public from injuries or accidents, arising from construction work.
- C. Each Contractor shall provide acoustical barriers so noise from tools or equipment will neither exceed legal noise levels nor interfere with plant operations.
- D. Each Contractor shall provide and maintain temporary dust tight partitions, bulkheads, or other protective devices during construction to permit normal operation of existing facilities. Construct partitions of plywood, insulating board, plastic sheets, or similar material(s). Construct partitions in such a manner that dust and dirt from demolition and cutting will not enter other parts of existing building or facilities. Remove temporary partitions as soon as the need no longer exists.

1.23 TEMPORARY ACCESS

- A. Provide and maintain required stairs, runways, guard rails, platforms, floor openings and similar temporary construction, for duration of work and performance of construction operations.
 - 1. Provide type and arrangements as required for their specific use; shall be substantially constructed throughout, strongly supported, and well secured.
- B. Permanent stairways may be used if protected against damage.
- C. Contractor's access to construction area will be permitted only through designated

approaches in such a manner that traffic will not interfere with Owner's activities.

1.24 TEMPORARY SIGNAGE

- A. Provide, maintain, and remove temporary signage throughout Project, both interior and exterior, when no longer required, including those required by prevailing code requirements and Authorities having jurisdiction.
 - 1. Such signage shall include, but not be limited to, signage as may be required for issuance of Certificates of Occupancy (CO), both Temporary (TCO) and Final (FCO).

1.25 TEMPORARY PROTECTION

- A. Protect work in progress and adjoining materials in place during handling and installation.
- B. Supervise construction operation to assure that work, completed or in progress, is not subject to harmful, dangerous, damaging or otherwise harmful exposure throughout construction period.
 - 1. Prevent accumulation of water on site:
 - a. Remove standing water.
 - b. Pump or direct away from site and adjoining property.
 - 2. Prevent accumulation of water on slabs, adjacent to building or foundations, or in utility trenches.
 - 3. Prevent damage to structural members.
- C. Apply protective covering to assure protection of work from damage or deterioration.
 - 1. Remove coverings at Substantial Completion.
- D. Adjust, lubricate and maintain operable components to assure operability without damaging effects throughout construction period.

1.26 SECURITY

- A. All of the Contractors' employees will be issued identification badges, which must be worn whenever the employees are on the plant site.
- B. Provide security and facilities to protect work and existing facilities and Owner's operations from unauthorized entry, vandalism or theft. Coordinate with Owner security force.
- C. The Contractor's employees must enter the Owner's plant site at the Main Gate unless directed otherwise by the Construction Manager.

1.27 TEMPORARY ACCESS ROADS

- A. Provide access on building site as required to perform work.
- B. Maintain construction site access roads free of obstruction.
- C. Clean up debris, materials, etc., that falls from vehicles in route to and from site.
- D. Do not block access to Owner's facilities.
- E. When this access is no longer required, restore to its original condition.

- F. Provide means of removing mud from vehicle wheels before leaving site and entering public streets or Owner's roads.

1.28 TEMPORARY PARKING

- A. Approved Prime Contractor and subcontractor parking must be limited to staging areas designated in the contract documents.
- B. For parking requirements above those allowed in this specification, provide additional off-site parking and transport employees to the plant.
- C. Do not allow heavy vehicle or construction equipment on existing plant parking areas without Owner approval.

1.29 TRAFFIC CONTROL

- A. Contractor's vehicular traffic must comply with the Owner's requirements. The Construction Manager will coordinate vehicular traffic and identify for the Contractor all access points (gates), parking areas, and off-limits areas within the plant.
- B. Provide traffic control necessary to effect smooth Owner operations.
- C. Provide and maintain adequate traffic control and flagmen's services at points where transporting of equipment and materials engaged on work, enters and exits from project site and on site.
- D. During the performance of the work, General Contractor shall furnish labor, equipment, and materials to control dust always in and around the work area, including evenings, holidays, and weekends.

1.30 WASTE MANAGEMENT FACILITIES

- A. Maintain facilities for separate collection of construction wastes and materials.
- B. Do not dispose of volatile or hazardous wastes into storm or sanitary drains. Disposal of wastes into streams or waterways is prohibited. Contractor shall provide acceptable containers for collection and disposal of waste materials, debris, and rubbish.

1.31 COMPLETION OF WORK

- A. Upon completion of work or as progress of work dictates or sooner if directed by Construction Manager, remove temporary facilities, and return improvements on or about site and adjacent property which are not shown to be altered, removed or otherwise changed; to condition which existed previous to starting work.

END OF SECTION

ATTACHMENT A

ALCOSAN Contract No. 1760, CSO Bypass and Disinfection Contractor Personnel and Delivery Control Procedure

Contractor is responsible for controlling its personnel and on-site traffic on the property of ALCOSAN Woods Run WWTP. The following procedure is incorporated into the Project Manual for implementation beginning with Notice to Proceed.

1) REGULAR WORKFORCE PERSONNEL – ENTERING PLANT PROPERTY NORMAL WORKING HOURS

- a) Each Prime Contractor (Contractor) is allowed two autos or pick-ups (vehicles) onto the project site. The vehicles shall be registered with ALCOSAN to two Contractor personnel who will be issued card-reader (access) Cards for access to the Plant through the right gate at the ALCOSAN Security (Security) Station off of Preble Avenue. These access passes shall not be shared for security reasons.
- b) One vehicle per subcontractor will be allowed on site when the subcontractor is working on site. This vehicle and its passengers will register at the Security Station as a subcontractor. This allowance is conditional upon contractor control of vehicle parking in its staging areas.
- c) Security will need the make, model, color license plate of the Contractor vehicles parked on site. They have a vehicle registration form that should be filled out when ALCOSAN ID access badge is issued
- d) Excluding the Contractor personnel mentioned above, all Contractor regular workforce personnel shall park off site. This parking shall be coordinated/arranged by the Contractor. Off-site parking shall not violate public or private restrictions.
- e) Contractor regular workforce personnel parking offsite shall enter the Plant in a Contractor provided bus or van (bus) which can be parked on site in an assigned staging area after discharging regular workforce personnel at the Contractor's site office/staging area. The bus driver shall be an employee of the Contractor and must follow the approved Contractor access route and speed limits at the time through the Plant.
- f) Bus driver, or some responsible Contractor employee on the bus, shall maintain a daily roster of Contractor personnel identifying who is on the bus at the time it pulls up to the Security Station in the left lane. The passenger roster shall be given to the Security Guard who will verify the identity of the passengers. It will be the responsibility of the Contractor to provide an accurate roster of daily personnel entering the Plant. The roster shall remain with the Guard who will keep the original and provide Contractor with a copy of the roster. Contractor should keep this copy of the roster to identify who is on the bus when the bus leaves the Plant at quitting time. Contractor personnel on the roster that leave the plant prior to the expected end of their shift shall sign out at Security so that their name can be taken of the roster of remaining personnel on site.
- g) New union personnel may be on the bus/van when it enters the site, but their name must be on the roster and identified as new personnel. After new personnel have been registered at the Contractor's site office he/she will be given a color-coded badge by the Contractor (see Badging Section).

- h) Contractor bus shall discharge passengers at the Contractor's site office/staging area .
- i) Contractor regular workforce personnel wanting to enter the Plant during the course of the workday shall park off site, walk to the Security Station and identify themselves and who they work for. That person's employer will be notified by Security to come to the Security Station to retrieve them. This person's name will be added to Security's copy of the Contractor's daily roster of regular workforce personnel in order to track all of the Contractor's personnel on site that day.

2) AFTER-HOUR WORKFORCE PERSONNEL – ENTERING PLANT PROPERTY BEYOND NORMAL WORKING HOURS

- a) Contractor shall identify and give Security 24 hours' notice of Contractor after-hour personnel working before or after normal shifts and on weekends and holidays. These personnel will not be part of shift personnel but persons entering on site to do maintenance or refueling work on equipment, prep work for early morning/next day concrete pours, etc..
- b) 24-hour advance notice shall include a list/roster of after-hour workforce personnel requiring access on site and who the responsible on-site person in charge is for the Contractor. This can be part of a Visitor Request Form (VRF). (CM will provide.)
- c) After-hour personnel working before and after regular/scheduled shift work, weekends and holidays will be allowed vehicles on site. At no time shall the number of Contractor vehicles on site exceed the number allowed. After-hour workforce personnel will report to the left lane of the Security Station, identify themselves and Security will check their names against the Contractor-provided list/roster on the VRF. After-hour personnel not on the roster will not be signed in and allowed into the Plant unless they are retrieved by a responsible person-in-charge for the Contractor.
- d) On second and third shifts, weekends or holidays when the Contractor has a large complement of its forces working it shall follow the procedures outlined above in Step 1.
- e) Regular workforce personnel who are to remain on site after normal shift work shall be considered after-hour workforce personnel. See Step 3.

3) REGULAR WORKFORCE PERSONNEL – EXITING PLANT PROPERTY

- a) Contractor regular workforce personnel exiting the Plant at the end of the work-day shall exit on the same or similar bus/van/truck (bus) that brought them to work that morning. The bus driver shall be an employee of the Contractor and must follow the approved Contractor access route and speed limits at the time through the Plant. The bus shall leave the Plant immediately after Contractor personnel are on board.
- b) Bus driver, or some responsible Contractor employee on the bus, shall use that day's roster of Contractor regular workforce personnel identifying who is on the bus at the time it pulls up to the west side of the Security Station. The passenger roster shall be given to the Security Guard who will verify the identity of the passengers who are leaving the Plant and who is still on site. The roster shall remain with the Guard who will make a copy for the Contractor.
- c) Using the Contractor's daily roster submitted and updated during the course of the workday in Steps 1d, 2b and 3b Security is aware of Contractor regular workforce personnel entering and leaving the Plant. The roster is critical in identifying who is and is not on the Plant in case of emergencies and evacuations.

- d) Those regular workforce personnel remaining on the site beyond normal quitting time will be considered after-hour workforce personnel. See Step 4.

4) AFTER-HOUR WORKFORCE PERSONNEL – EXITING THE PLANT PROPERTY BEYOND NORMAL WORKING HOURS

- a) After-hour workforce personnel will be on site weekdays before and after normal working hours , weekends and holidays. Documentation of their presence at the Plant is addressed in Steps 2 and 3.
- b) When exiting the Plant after-hour workforce personnel will identify themselves to Security who will verify whether or not they are on that day’s roster of remaining on site personnel.
- c) If for some reason the after-hour workforce personnel leaving the site in Step 4b is not on that day’s roster that person(s) will confirm their identity with Security and be allowed to leave the site. Security will notify the CM the next working day of the discrepancy in the Contractor’s roster information.

5) CONTRACTOR VISITORS TO THE SITE

- a) This procedure applies to visitors to the Contractor at the Plant. This could include but not be limited to corporate staff, meeting attendees, salespersons, business agents, suppliers, manufacturer representatives – any persons not a regular on-site member of the Contractors site work forces covered on their daily roster.
- b) CM shall give ALCOSAN Security advance notice of Visitors expected to the site by way of a Visitor Request Form (VRF). (CM to Provide). Contractor shall fill out this Form and send to the CM with the information necessary so that the CM can submit it to ALCOSAN Security. Contractor shall submit the information to the CM 24 hours in advance of the Visitors expected arrival time.
- c) Security will direct Visitors to park in any available parking space closest to the location of their meeting but no further north than the parking places in front of the ALCOSAN Administration Building after checking in at the left lane of the Security Station off of Preble Avenue. Visitors shall present identification and sign in. Security shall verify the VRF against the information presented by the Visitor. Visitor will be issued a temporary badge.
- d) Once Visitor credentials are confirmed Security will call the Contractor contact given on the VRF notifying them that their Visitor has arrived. Contractor shall retrieve their Visitor where they are parked.
- e) Should there not be a VRF with Security in anticipation of a Visitor that arrives at the Plant the Visitor will not be allowed entrance to the Plant. Security must have a VRF to allow entry into the plant.
- f) Exiting Visitors shall be escorted by the Contractor to their parking spot. Visitors shall exit through west side of Security Station signing out.

6) CONTRACTOR DELIVERIES TO THE SITE

- a) There will be various types of deliveries/traffic in and out of the Plant to support Contractor work activity. In general, they can be categorized as the following:

- i. Type 1 - 'Light' deliveries – FedEx/UPS type deliveries in the way of vans, pickups, two—axle box truck and the like.
 - ii. Type 2 - 'Medium' deliveries/traffic – dump trucks, concrete trucks, and the like that will enter and exit the site in a continuous repetitive manner over a period of time. Contractor will submit to the CM a Delivery Notice Form for Type ii deliveries.
 - iii. Type 3 - 'Heavy' deliveries – 18-wheeler semi-trailer truck, low boys, large equipment deliveries, and the like. Contractor will submit to the CM a Delivery Notice Form for Type 3 deliveries.
- b) There are two entrances into the Plant – through the Security Station off of Preble Avenue and the Tracy Street Entrance at the southwest corner of the Plant at the end of Tracy Street. Generally, traffic will be routed as follows. Exceptions can be made in advance of traffic arrival/departure.
 - i. Preble Street Entrance – Types 1 & 3 traffic
 - ii. Tracy Street Entrance – Type 2 traffic
- c) 'Type 1' deliveries will be made through the Security Station.
 - i. Driver shall check in at the left lane. Driver shall have its contact and contractor information on the deliverable. Deliveries shall not be made care of ALCOSAN or the CM or the delivery will be turned away.
 - ii. Contractors will be notified by Security of the delivery. Because of the volume of construction work and traffic on site these delivery vehicles will not be allowed on site to drive to the Contractors site office so the Contractor will have to retrieve deliveries at the McKees Rocks Bridge.
- d) 'Type 2' deliveries /traffic will generally be made through the Tracy Street entrance depending upon the anticipated volume (concrete and earthwork) and time sensitivity (concrete) of traffic and location of the related work. Upon ALCOSAN approved exception this traffic may be allowed to enter the Plant at the Preble Avenue entrance.
 - i. 24 hours prior to the day of the anticipated truck traffic the Contractor will notify the CM via a Construction Delivery Notice Form (DNF) of the anticipated truck volume. (DNF form provide by the CM) Contractor shall fill out this Form and send to the CM with the information necessary so that the CM can submit it to ALCOSAN Security.
 - ii. Vehicle must follow the approved Contractor access route and speed limits at the time through the Plant.
 - iii. CM will submit to Security the DNF with the Contractor's delivery/traffic information. CM will coordinate Plant Entrance to be used for the deliveries/traffic with Security and notify Contractor.
 - iv. At the Preble Avenue entrance drivers will enter the left side visitor entry and Security will document the entry on the ALCOSAN Daily Delivery Log. Outbound traffic should not go out of the Plant through the west side of the Security Station when construction work on the new parking lot/laboratory is underway. Traffic should leave the Plant through the Tracy Street gate when possible. They will be checked out there and exit time recorded, if there is a reason to exit the west side of the main plant exit, their exit time will be recorded on the delivery log.
 - v. There may be a line placed on the road or a sign erected at self-opening gates so that drivers know how closely they should approach the gate to get it to open. Leaving the east road gates open during the day is only an option on a high volume delivery day if

traffic is backing up and deemed necessary. ALCOSAN priority will always be to secure the plant by keeping the gates closed unless an exception is needed. There will always be the pull up option and gate will automatically open.

- vi. At the Tracy Street entrance: This entrance will be manned every day with a computer. The same documentation process applies at both Tracy and Preble Main entrances; the officer assigned to Tracy entrance will have the same access to the DNF as the main security office and he/she will record entry/exit times for all deliveries.
- e) 'Type 3' deliveries will be made through the Security Station.
- i. Generally, these types of deliveries will involve large deliveries of heavy construction equipment, sheeting and rebar, construction materials, etc. transported by 18-wheel semi-trailer trucks or 'low boys' with limited turning radius and backing up capabilities.
 - ii. CM will submit to Security the DNF with the Contractor's delivery information.
 - iii. Use of the Tracy Street Entrance for these vehicles may not be practical because of road conditions on site that do not suit these types of vehicles. Therefore, the Preble Street Entrance will be most likely be used. There are width considerations the Contractor must consider for wide loads at the Preble Street Entrance location. Therefore, some oversized loads may have to go through the Tracy Street Entrance.
 - iv. Vehicle must follow the approved Contractor access route and speed limits at the time through the Plant.
 - v. Delivery vehicle shall pull up to the Security Station in the Visitor's lane and the Driver will present identification and paperwork on deliverables. Security will check against the DNF for that delivery.
 - vi. Vehicle will be allowed to pull up to the bridge along the east road] where the contractor will retrieve it to take it back to the site. Contractors should be expecting the call from Security so they can receive the delivery in a timely fashion; this is crucial to ensure there is not a delay in the communication process which could potentially cause a traffic back-up on site.
 - vii. Contractor becomes responsible for the delivery vehicle from the time it retrieves it until it returns it to the point of retrieval
 - viii. If the delivery does not meet the information on the DNF it will not be allowed further into the Plant until the Contractor accurately reconciles with Security the content of the deliverables.
 - ix. Delivery vehicle, escorted by the Contractor, will exit the Plant through the incoming right lane at the Security Station stopping at the barrier Arm. Special exceptions such as these will need to be coordinated with Security to ensure a safe traffic pattern for all; when possible, the Contractor will escort the delivery vehicle to exit out the Tracy Street gate exit to mitigate issues that may arise by using the Preble Avenue entrance/exit area.

7) **BADGING CONTRACTOR PERSONNEL**

- a) ALCOSAN will turnover color-coded badges to the Contractor to give to its personnel at the start of their employment with the Contractor. The Contractor will assign badge numbers to its personnel and keep a record of badge number/personnel assignments. This record shall be copied to Security. At the end of personnel employment, the Contractor will recover the badge from the terminated personnel.

- b) All Prime Contractors that receive a parking space will receive a project-term Alcosan Photo ID access badge granting them right side arm gate access for the main plant entrance during standard business hours. ALCOSAN screening is only required of Contractor personnel getting access cards. Each Contractor will provide four names and ALCOSAN will schedule them to get the badge made with ALCOSAN (HR) See Step 1A.
- c) Contractor personnel Badges will be color coded by project so that employees can be identified with the project/ area of the Plant that they are working on. The Badge will also have additional identification information such as CONTRACTOR and a number.
- d) If a Contractor has more than one active project at the Plant and its personnel are pooled with more than one project in different areas of the site those personnel shall be registered for both projects obtaining more than one badge, each colored according to the area they are working in.
- e) Badges shall be visibly worn by Contractor personnel at all times – including on the bus into and out of the Plant. It will be the responsibility of the Contractor superintendent to ensure that this requirement is met by all its personnel. Security may conduct spot checks for this and other compliance issues. Contractor has the option to assign a color coded badge to personnel to be kept on site and displayed daily throughout their time working on site. Security will need a copy of the assigned badge list to include the names of the personnel and badge number assigned to each individual. These badges signify the zone the employee should be working in.
- f) If contractor personnel are observed not wearing a Badge by ALCOSAN they shall report it to the CM inspector or Resident Engineer. He/she will report this to the Contractor superintendent. This process is the same if the observation is made by a CM employee.
- g) It will be the responsibility of the Contractor superintendent to recover identification cards of personnel who are dismissed from the Contractor's workforce. Dismissed personnel shall be escorted off the site by the Contractor superintendent. Security can assist the superintendent if there are workplace violence concerns).

Allegheny County Sanitary Authority
Contract 1760– CSO Bypass
PRE-BID MEETING Agenda

Subject:	Pre-Bid Meeting Agenda
Date:	June 22, 2022
Time:	10:00 AM
Project:	CSO Bypass and Disinfection
Location:	Microsoft Teams - Virtual Meeting

PURPOSE OF MEETING: To provide Bidders a venue to collectively hear the specifics about the project scope, schedule, and cost.

ATTENDEES:

A. INTRODUCTION

- a. **Brian Daugherty CM with MB**
- b. **GHD the design engineer will go over some of the scope.**
- c. **Question to be held to the end, limit technical question to the proper process as outlined below.**

B. BID DOCUMENTS

1. **Legal Notice**

- a. The Bid Security will be 10% of bid price, by certified check or bid bond.
- b. All bids shall be submitted to ALCOSAN’s Engineering Department clerks (2nd floor of the O&M Building) on or before the bid opening date and time. If the bid package is sent to ALCOSAN by land courier (UPS, FedEx, etc.), allow enough time for delivery to the clerks.
- c. The Bid Opening will be held on **Wednesday, August 31, at 11:00 AM sharp!**
- d. Anticipation of award will be announced at the **September 22, 2022** ALCOSAN Board Meeting.
- e. All questions about contract documents shall be submitted to Brian Daugherty in writing, via email only, at Brian.Daugherty@mbakerintl.com. *Any questions by phone or in-person are considered informal and without legal or binding effect on the contract or to the Owner.*
- f. The last day for questions will be on **August 19, 2022, close of business (4:30 p.m.)**. Responses will be distributed as addenda, as soon as possible, as deemed applicable.
- g. This Pre-Bid Meeting is not mandatory for bidders.

2. **Bidding Documents [Article 1]**

- a. Bid Form - fill in TOTAL BASE BID on page 1-4. This will be the sum of Lump Sum Work (8.1) and Extended Amount for Unit Price Work (8.2). There are no alternate bids. All bid forms submitted must be complete and signed by an authorized representative of the Company. Only the bid forms need to be submitted (Article 1 → pages 1-1 through 1-23 (G) or 1-21 (E, P, H) and Solicitation and Commitment Statement pages 1 of 4 through 4 of 4), not the entire book.
- b. Bidder must Acknowledge all Addenda received and made part of the Bid Documents, page 1-2. (Art. 2.16)

- c. Bidder must provide a contact for your company in the space designated on page 1-5 for receipt of any communications necessary for the bid evaluation.
- d. Bid Bond – must be in the form of a Certified Check or Bid Bond. (Art. 2.19)
- e. MBE/WBE lower-tier subcontractor participation counts towards 10%-25% (Art. 2.25)
Questions or guidance: Contact Ray Meyer (ALCOSAN) at (412) 734-8737 or raymond.meyer@alcosan.org
- g. Project Labor Agreement (Art. 2.33) – Primes to sign and submit Letter of Assent with bid. Subcontractors will be required to sign before working on the project.

3. **Information for Bidders [Article 2]**

- a. Submission of Bids (2.04); Sealed Bids must be submitted to ALCOSAN Engineering Department on or before bid opening date. Late bids (anything received after 11:00 AM) may be treated as “non-responsive” and returned to the Bidder unopened.
- b. Award Contract Execution and Notice to Proceed (2.07); ALCOSAN intends to award Contract 1760 G, E, H, and P at the September 22, 2022 Board Meeting. Anticipate a Notice to Proceed to be issued **November 1, 2022**.
- c. Bidders to Investigate (2.13); Bidders may coordinate additional site visits through the Construction Manager Resident Engineer, Brian Daugherty, at 330-307-2546 or Brian.Daugherty@mbakerintl.com.
- d. Tax Exemptions (2.18) See Article 3.21 and Exhibit D.
- e. Withdrawal or Modification of Bids (2.20); Bidders to review and acknowledge requirements established by ALCOSAN regarding.
- f. Alterations of Bids and Documents (2.22); No alteration, erasure, addition or omission of required information, or any change of the Contract Documents is permitted, except in accordance with the provisions of Section 2.11 hereof entitled, "Questions Regarding Contract Documents/Errors."
- g. Qualifications and Experience of Bidders (2.24); Each Bidder and its subcontractor must be regularly engaged in, and have at least Five (5) years’ experience in, the installation of the particular type(s) of construction, systems and equipment required for this contract. Completion of the Contractor’s Experience Questionnaire in the Bid Documents is a mandatory.
- h. MBE & WBE Participation (2.25); The goal of the Authority is that Ten to Twenty-five Percent (10% to 25%) of all dollars relating to its contracts be awarded to minority or women's business enterprises. Questions or guidance: Contact Ray Meyer (ALCOSAN) at (412) 734-8737 or raymond.meyer@alcosan.org
- i. Project Labor Agreement and Letter of Assent (Prime and Subs) (2.33); The Bidder shall, when submitting their bid, acknowledge that it will abide by the Project Labor Agreement by signing and submitting a Letter of Assent in the format given in Attachment A.

4. **Contract Provisions [Article 3]**

- a. Project Coordination (3.7 & 3.27); It shall be the Contractor's responsibility to coordinate all Work furnished under this Contract with the Construction Manager and with the Other Contractors to make sure that all Work performance guarantees are achieved and that the Work is properly constructed, assembled, installed and configured for reliable and continuous operation.
- b. Retainage; (3.36): 10% will be withheld at each Pay request, to start. The amount retained will be reduced to 5% at 50% completion.
- c. Bonds (3.56); A Performance Bond and Labor and a Material Payment Bond are to be provided

prior to the execution of the Contract Agreement by Owner in the amount (100%) of the Contract Sum. Also, a Maintenance Bond (100% of Contract sum) will be required upon final acceptance of the completed work.

- d. Compliance with Health (COVID-19), Safety, and Environmental Laws (3.70); Contractors will be required to submit a project-specific written safety program, tailored specifically for the work on this Contract 1760, to be submitted to the Construction Manager. This program must be approved by CM and ALCOSAN prior to performing any work on-site.
- e. Working hours (01 11 20 3.1A), Normally for an 8-hour period between 7:00 AM to 5:00 PM, Monday through Friday. Work performed after hours, during ALCOSAN holidays and weekends shall be overseen by the Construction Manager at the sole expense of the Contractor.
- f. Pennsylvania Prevailing Wage Rates (3.76); Minimum wage rates as set forth by the PA Prevailing Wage Act. (See Article 7 Volume 1 of 3)
- g. Compliance to the Buy American (3.77); It is the desire of the Owner that items supplied under this Contract shall be manufactured and assembled in the United States of America and utilize American materials to the maximum practical extent, consistent with the needs of this Contract and the availability of products and components of American manufacture.
- h. Compliance to the PA Steel Products Procurement Act/Trade Practices Act (3.77/3.78); The Contractor agrees to comply with the Pennsylvania Steel Products Procurement Act and shall submit with its Bid a signed copy of the Certificate of Compliance with the Pennsylvania Steel Products Procurement Act. The Contractor also agrees to comply with the Trade Practices Act and shall not use or permit to be used in the Work any aluminum or steel products made in a foreign country which discriminates against aluminum or steel products manufactured in Pennsylvania.

5. Contract Agreement [Article 4]

- a. Contract Milestones:

Construction Milestones	Contract Time (Calendar Days)	Notes
Substantial Completion of Contract	1,005 days	From Notice to Proceed
Final Completion of Contract	1,050 days	From Notice to Proceed

- b. Liquidated Damages:

Construction Milestone	Liquidated Damages
Substantial Completion of Contract	\$5,000/calendar day
Final Completion of Contract	\$1,000/calendar day

6. Bonds, Certificates and Statements [Article 5]

- a. Performance Bond to be provided at beginning of contract.
- b. Labor and Material Payment Bond to be provided at beginning of contract.
- c. Contractor’s Certificate of Satisfaction to be provided at completion of contract.
- d. Maintenance Bond to be provided at completion of contract.

7. Project Specifications [Article 6]

- a. Summary of Work 01 11 00 – Summarized by the Final Design Consultant (FDC).
See attached presentation by GHD.

- b. PMIS 01 33 16 – ALCOSAN will require contractors to utilize eBuilder for processing of contract documentation.
 - c. Maintenance of Plant Operations (MOPO) 01 52 00 – Describes contractor requirements pertaining to the continual operation of ALCOSAN facilities during particular project requirements.
8. **Prevailing Minimum Wage Determination [Article 7]**
- a. See list in contract documents; Commonwealth of Pennsylvania Department of Labor & Industry
9. **Contract Drawings**
- a. There are a total of 359 drawings.

C. OPEN DISCUSSION / QUESTIONS / SITE TOUR REQUESTS

1. **Questions**

**David Dechicchis: wants to confirm that excel spreadsheet can be used. This was confirmed
Bid form: “limited co-partnership”. Can this be modified to address that they’re a partnership?**

Jeff Mazza: add pages to better describe what their firm is. (similar to North End job)

Dave: will submit an RFI so it’s on record

2. **Site Tour Requests**

- a. Requests must be submitted in writing to the Construction Manager Resident Engineer, Brian Daugherty, at 330-307-2546 or Brian.Daugherty@mbakerintl.com.

Any additions, deletions or corrections to these minutes should be forwarded to Brian Daugherty (Brian.Daugherty@mbakerintl.com) within five (5) days of receipt. Otherwise, these minutes will be approved as written.

Prepared by: Brian Daugherty

This transmission is confidential and intended solely for the person or organization to whom it is addressed. It may contain privileged and confidential information. If you are not the intended recipient, you should not copy, distribute or take any action in reliance on it.

1760-CSO Bypass and Disinfection

PRE-BID MEETING

Wednesday, June 22, 2022 @ 10:00 AM

Full Name	Company	Email
Albert Kish	W.G. Tomko	akish@wgtomko.com
Dan McFarland	McKamish	danm@mckamish.com
Susan	Guy's Mechanical Systems, Inc.	susan@guysmech.com
Wes Donovan	Allegheny Construction	wdonovan@acginc.com
Anne Geraud	Allegheny Construction	ageraud@acginc.com
Mike Roarty	PJ Dick	mike.roarty@pjdick.com
Daugherty, Brian	Michael Baker	Brian.Daugherty@mbakerintl.com
Joe Bonazza	Total Equipment	Joe.Bonazza@totalequipment.com
Christopher Martin	GHD	Christopher.Martin@ghd.com
Dukewich, Walter	Michael Baker	Walter.Dukewich@mbakerintl.com
Rulison Evans	GHD	Rulison.Evans@ghd.com
Jones, James	Michael Baker	James.Jones@mbakerintl.com
Madden, Emily	Michael Baker	Emily.Madden@mbakerintl.com
Joel Kostelac	GHD	Joel.Kostelac@ghd.com
Tom Crawford	Kokosing	tcrawford@kokosing.biz
Luis Mujica (Guest)	PJ Dick	Luis.mujica@pjdick.com
Karan Patil	Treviicos	kpatil@treviicos.com
Zach Keller	Kokosing	zkeller@kokosing.biz
Dan Bradley	SSM	dbradley@ssmi.biz
Kathleen P. Uniatowski	ALCOSAN	Kathleen.Uniatowski@alcosan.org
Brian Donovan	Sargent Electric	bdonovan@sargentelectric.com
Jeff Argyros P.E.	ALCOSAN	Jeff.Argyros@alcosan.org
Johnson, Marki	Michael Baker	Marki.Johnson@mbakerintl.com
Brandon Rupert	Mosites	brupert@mosites.com
Mac McAlleavey	SSM	mmcalleavey@ssmi.biz
Jeffrey Mazza P.E.	ALCOSAN	Jeffrey.Mazza@alcosan.org
William (Bill) Vodde	Brayman	w_vodde@brayman.com
Zottola, Frank	Independent Excavating, Inc.	fzottola@indexc.com
Mike Hogg (Guest)	Wellington Power Corp	Mhogg@WellingtonPower.com
David DeChicchis	Mascaro	ddechicchis@mascaroconstruction.com
Josh Michulka	Wellington Power Corp	jmichulka@wellingtonpower.com
John Story	GHD	John.Story@ghd.com
Kimberly Kennedy P.E.	ALCOSAN	kimberly.kennedy@alcosan.org
Hunter Lund	Kirby Electric, Inc.	hunter.lund@gmail.com
Andrew MacArthur	Cross Country	amacarthur@crosscountryis.com
Evan Ring	Brayman	e_ring@brayman.com
Kyle Young	Cedarvilleeng Cog.	kyoung@CedarvilleEng.com
Herb Gallagher	Waynecrou Se Coos	hgallagher@waynecrouse.com
Brian Grayburn (Guest)		
Craig (Guest)		
Keith (Guest)		
Bill V. (Guest)		
John Groblewski (Guest)		



CSO Bypass & Disinfection

Pre-Bid Meeting

June 22, 2022



Project Overview

EFW/RAS Chlorination, Defoamer

New Outfall to Ohio River
Conversion of Existing Chlorine Contact Tank to Bypass Chlorine Contact Tank

CSO Bypass Channel and Flow Regulator Chambers

Bulkhead Existing Outfall

Primary Sedimentation Basin Improvements

Not shown:
Aeration Basin Gates,
Central Pipe Gallery



Project Overview

New Outfall 002

River Wall Modifications

Sampling Building

Bypass Chlorine Contact Tank

Bypass Disinfection Chemical Building

Dechlorination Building Upgrades

Defoamer

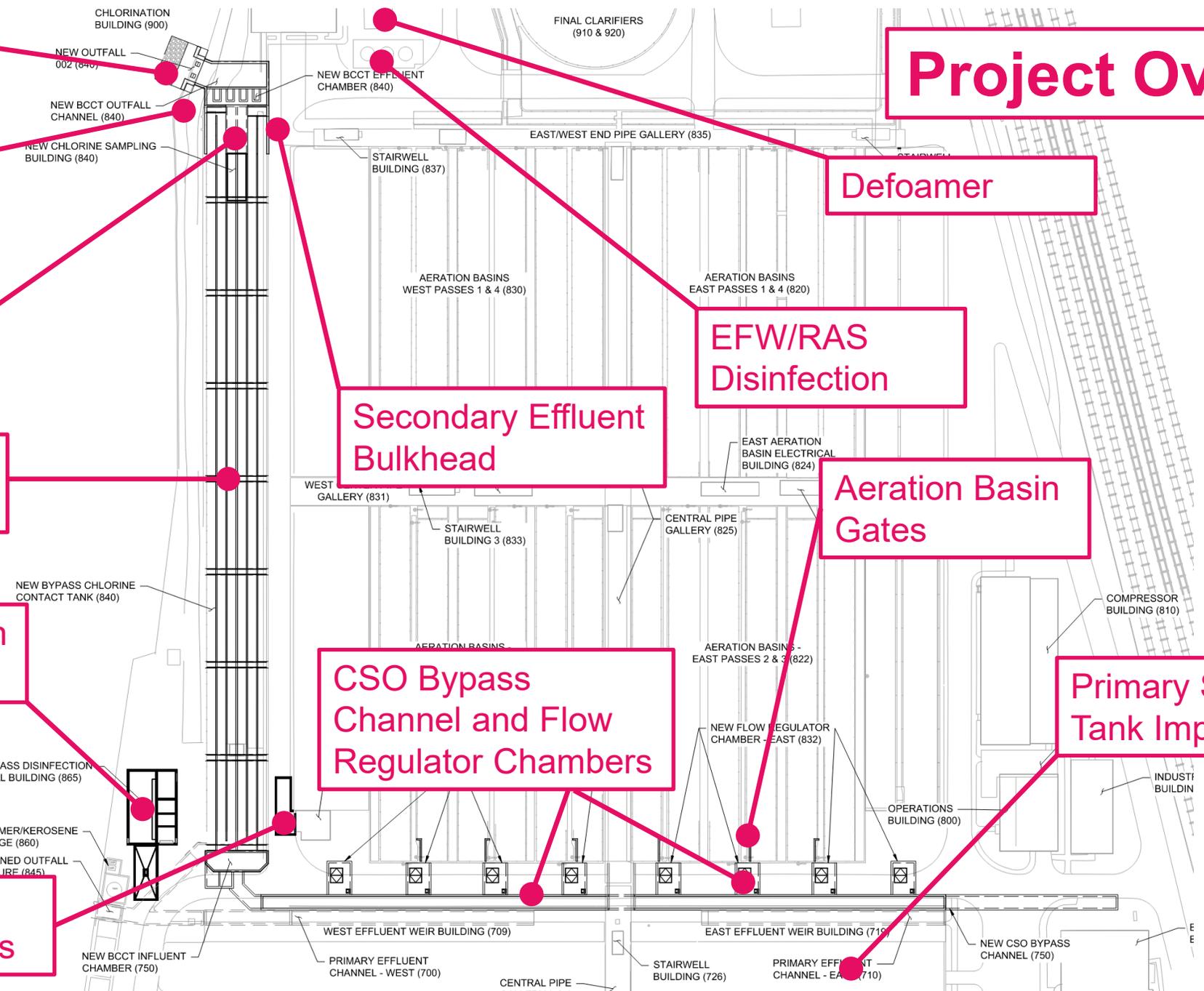
EFW/RAS Disinfection

Secondary Effluent Bulkhead

Aeration Basin Gates

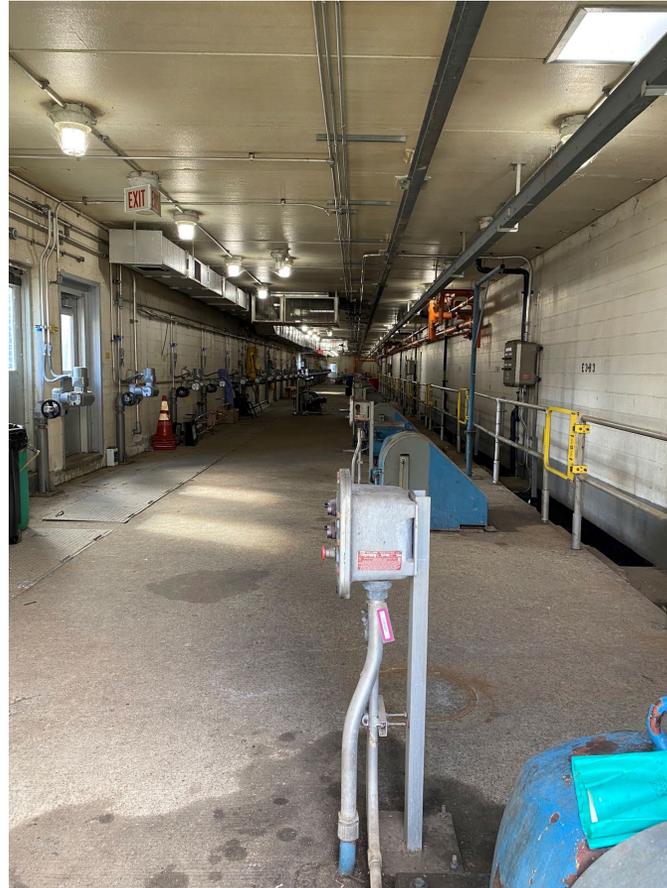
CSO Bypass Channel and Flow Regulator Chambers

Primary Settling Tank Improvements



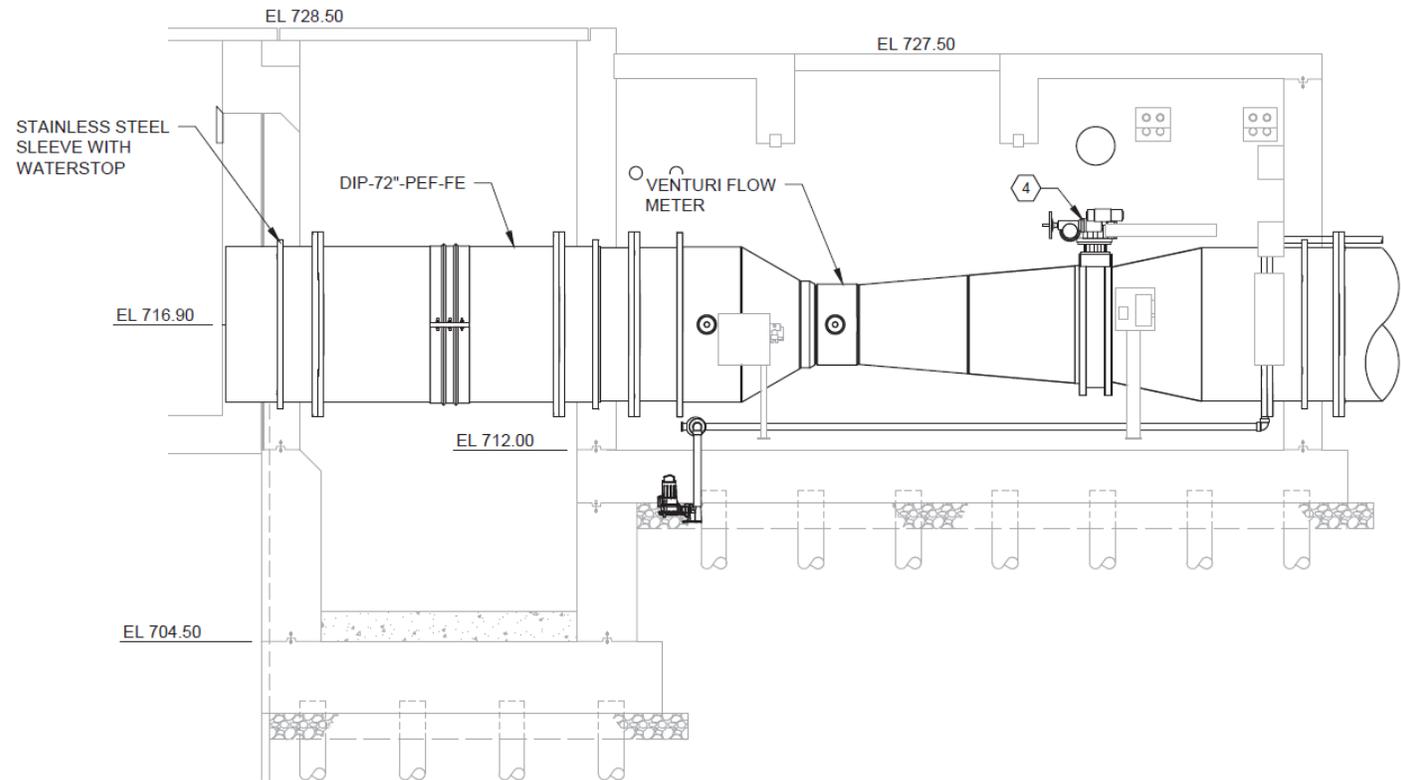
Primary Sedimentation Basins

- Raise Hydraulic Grade Line
- New equipment:
 - Metallic chain
 - Upper return rails/wear strips
 - Sprockets
 - Scum troughs
- Weir modifications
- Reinstall existing flights
- Reuse existing drives
- 9 basins, dimensions vary
- 5 basins in service at all times
(Maximum 4 out of service)

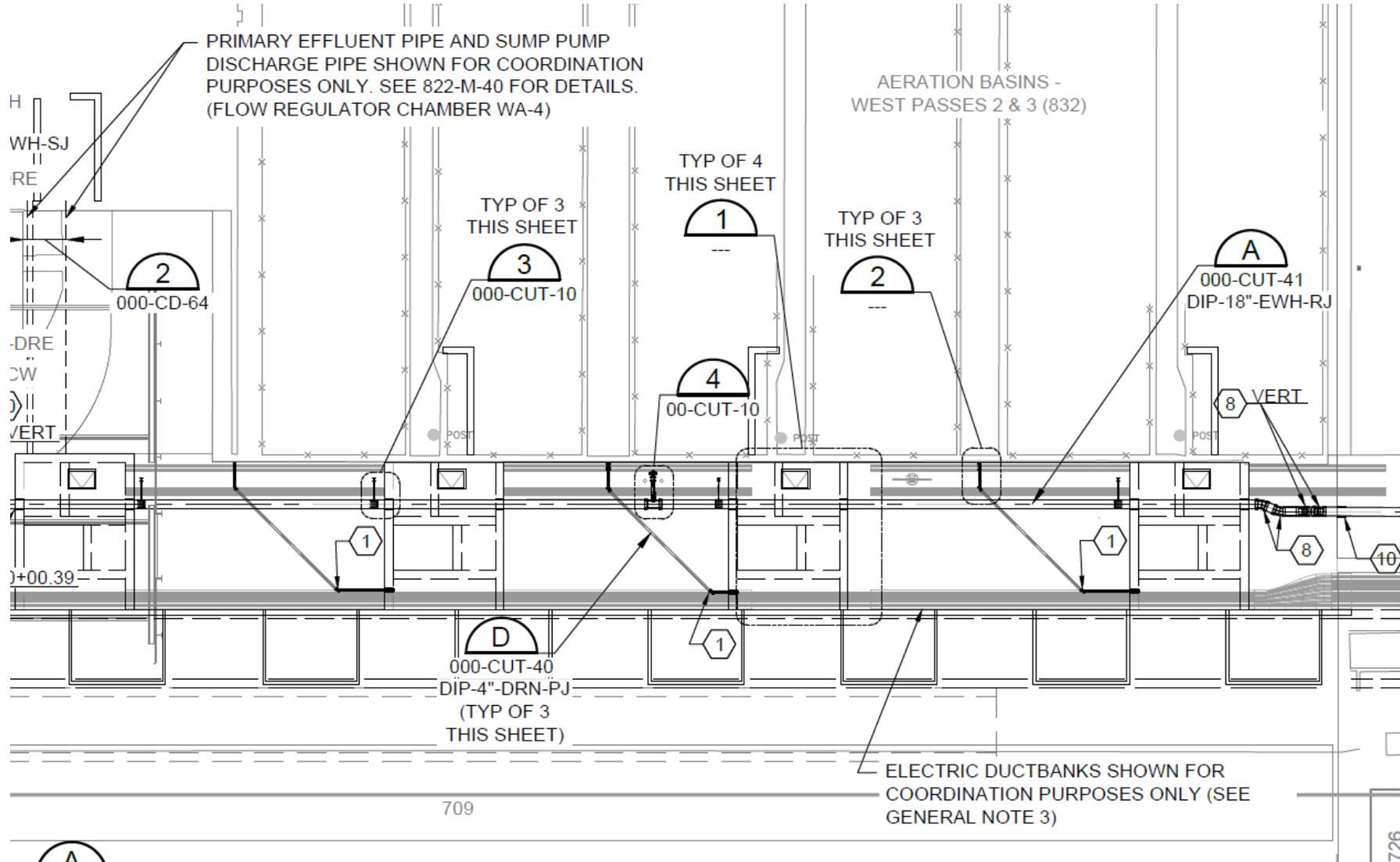


CSO Bypass Channel and Flow Regulator Chambers

- Install new CSOB Channel adjacent to existing Primary Effluent Channel
- New weirs in Primary Effluent Channel
- 72-inch Primary Effluent Piping to Aeration Basins (8)
- 8 flow regulator chambers
 - Venturi rate-of-flow controllers
 - 54-inch butterfly control valves
- Replace aeration piping in Primary Effluent Channel
- Aeration basin modifications (24 new gates)
- Relocate Sample Pumps
- New 5kV duct bank – relocate temporary power
- Work in Central Pipe Gallery

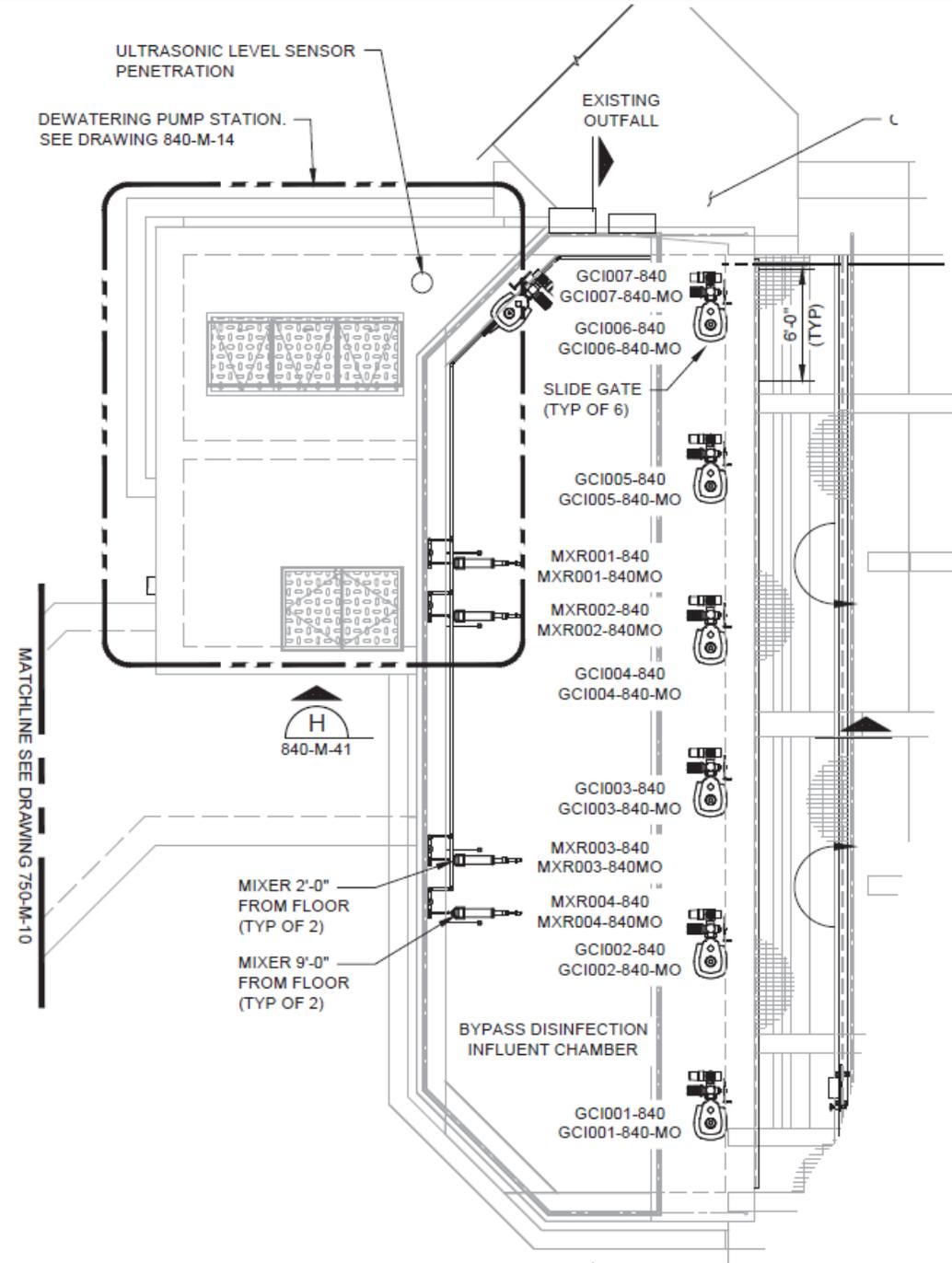
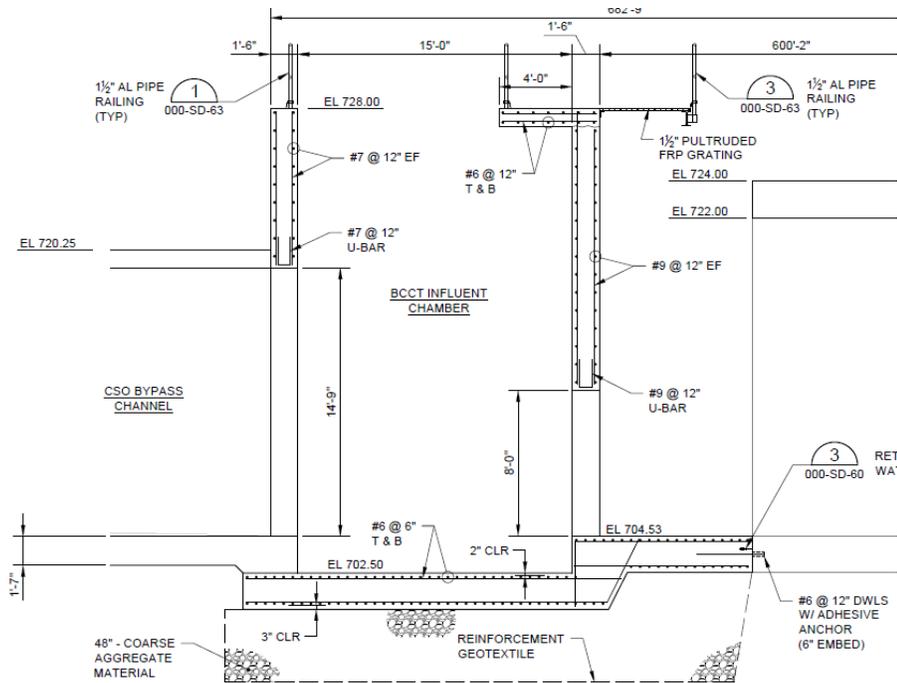


CSO Bypass Channel and Flow Regulator Chambers



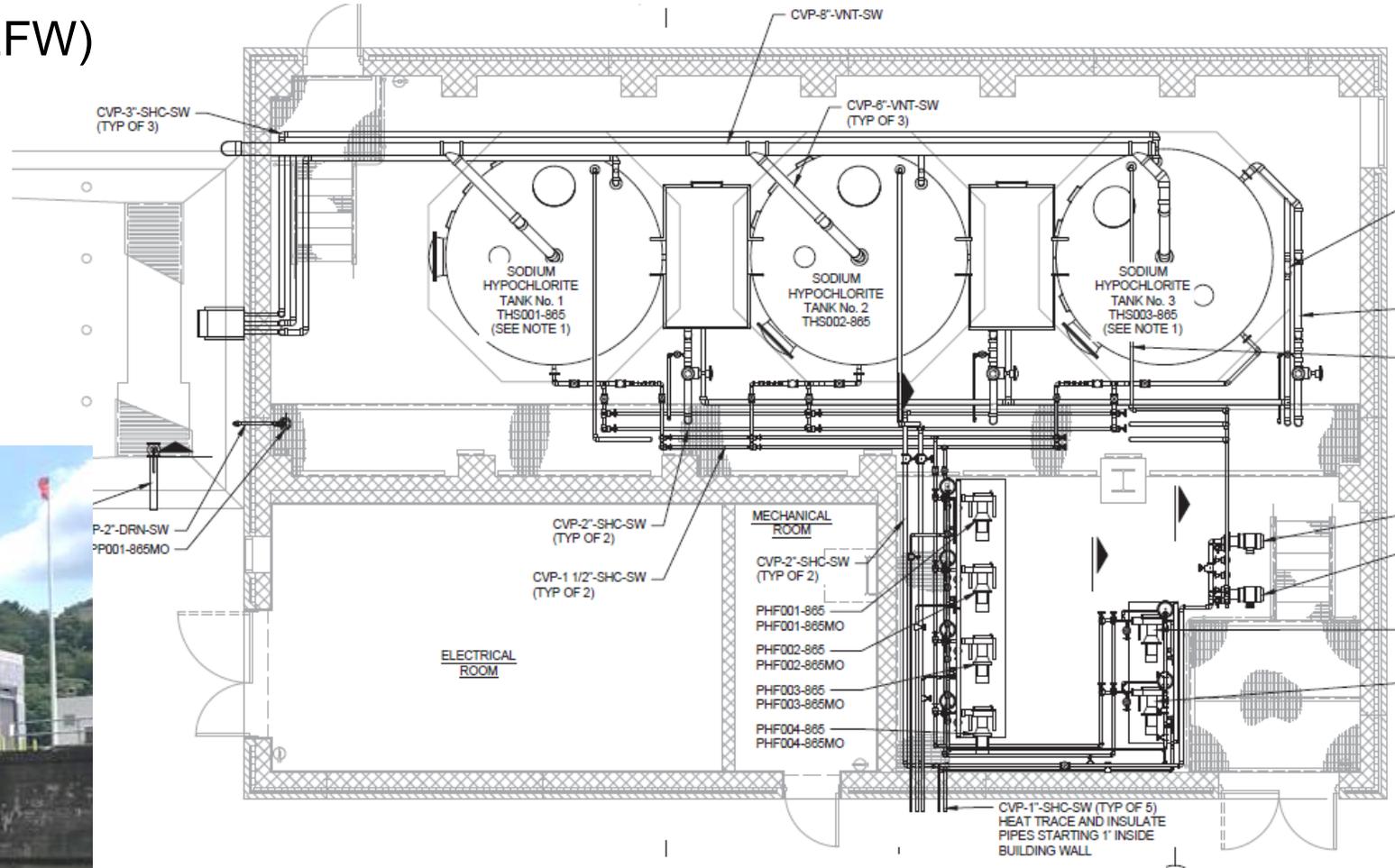
BCCT – South

- Dewatering Pump Station
- Six new influent gates
- Sodium hypochlorite induction mixers
- Bulkhead existing outfall
- No work until CCT from North End Project is operational
- Accommodate truck traffic



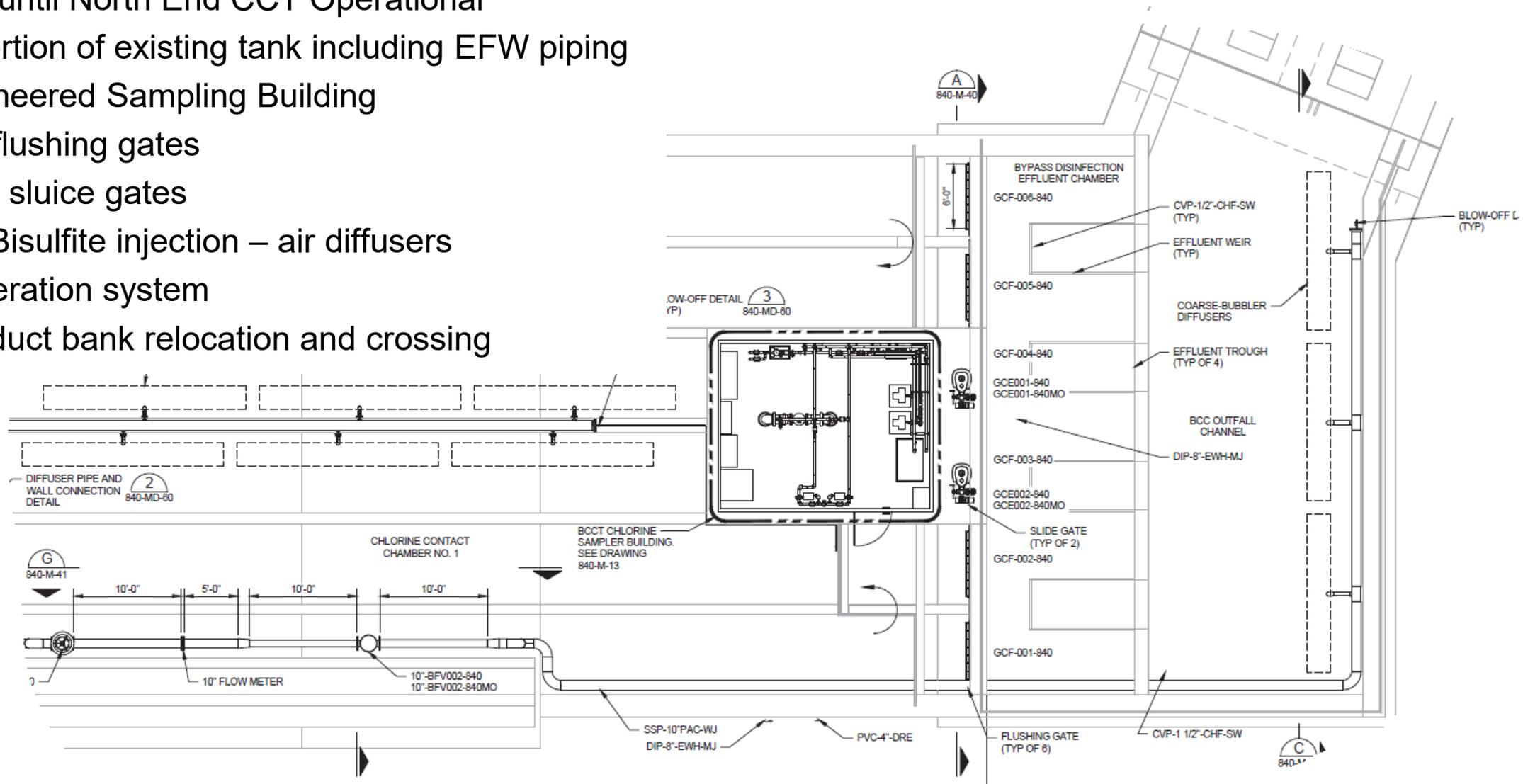
Bypass Disinfection Chemical Building

- 2 storage tanks relocated from Temporary Hypo System (near EFW)
- 1 new storage tank
- Chemical feed pumps
- Chemical transfer pumps
- Exterior unloading pad
- Allowance for exterior façade



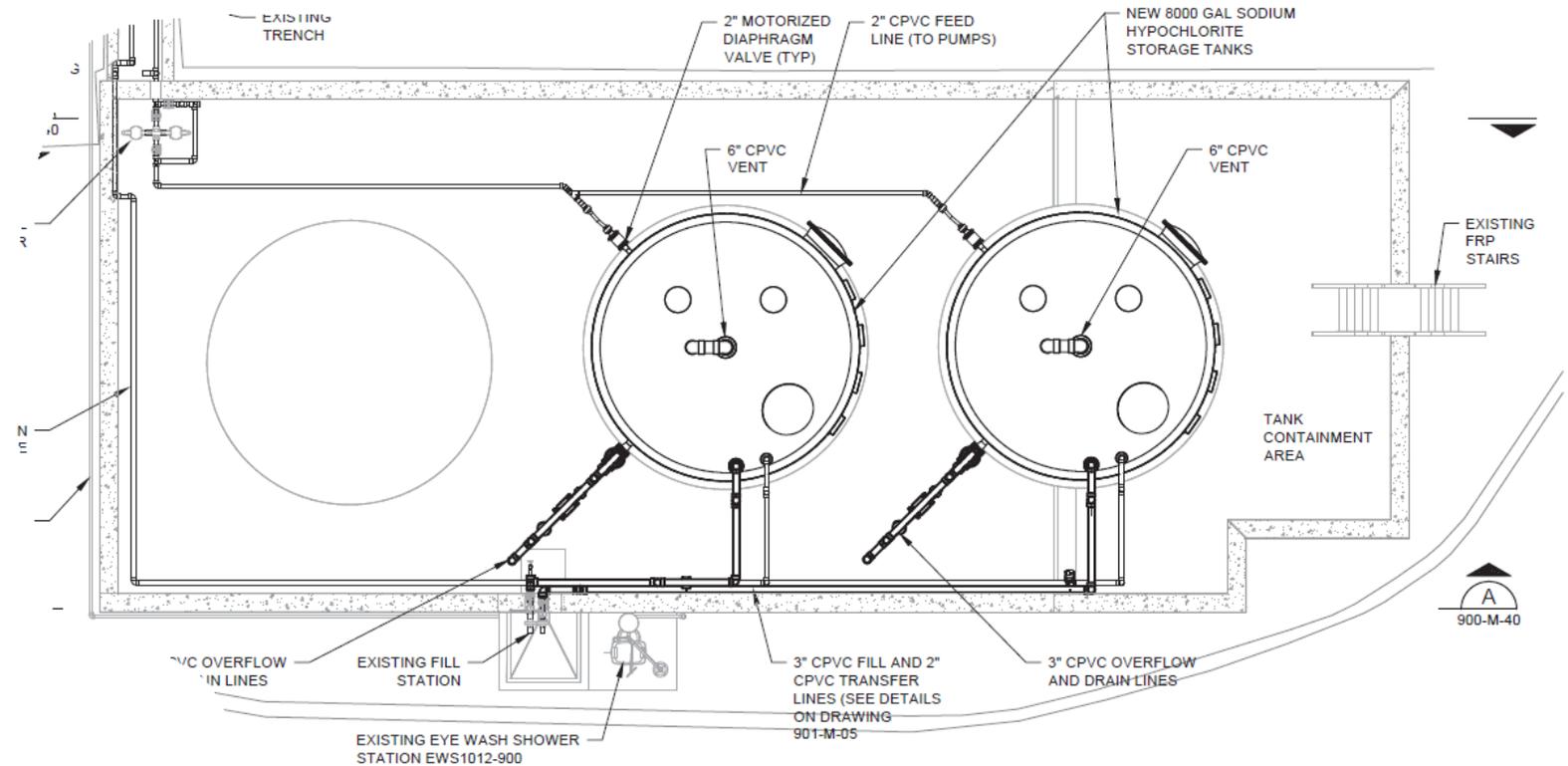
Bypass Chlorine Contact Tank – North

- No work until North End CCT Operational
- Demo portion of existing tank including EFW piping
- Pre-engineered Sampling Building
- Six new flushing gates
- Two new sluice gates
- Sodium Bisulfite injection – air diffusers
- Outfall aeration system
- 13.8 kV duct bank relocation and crossing



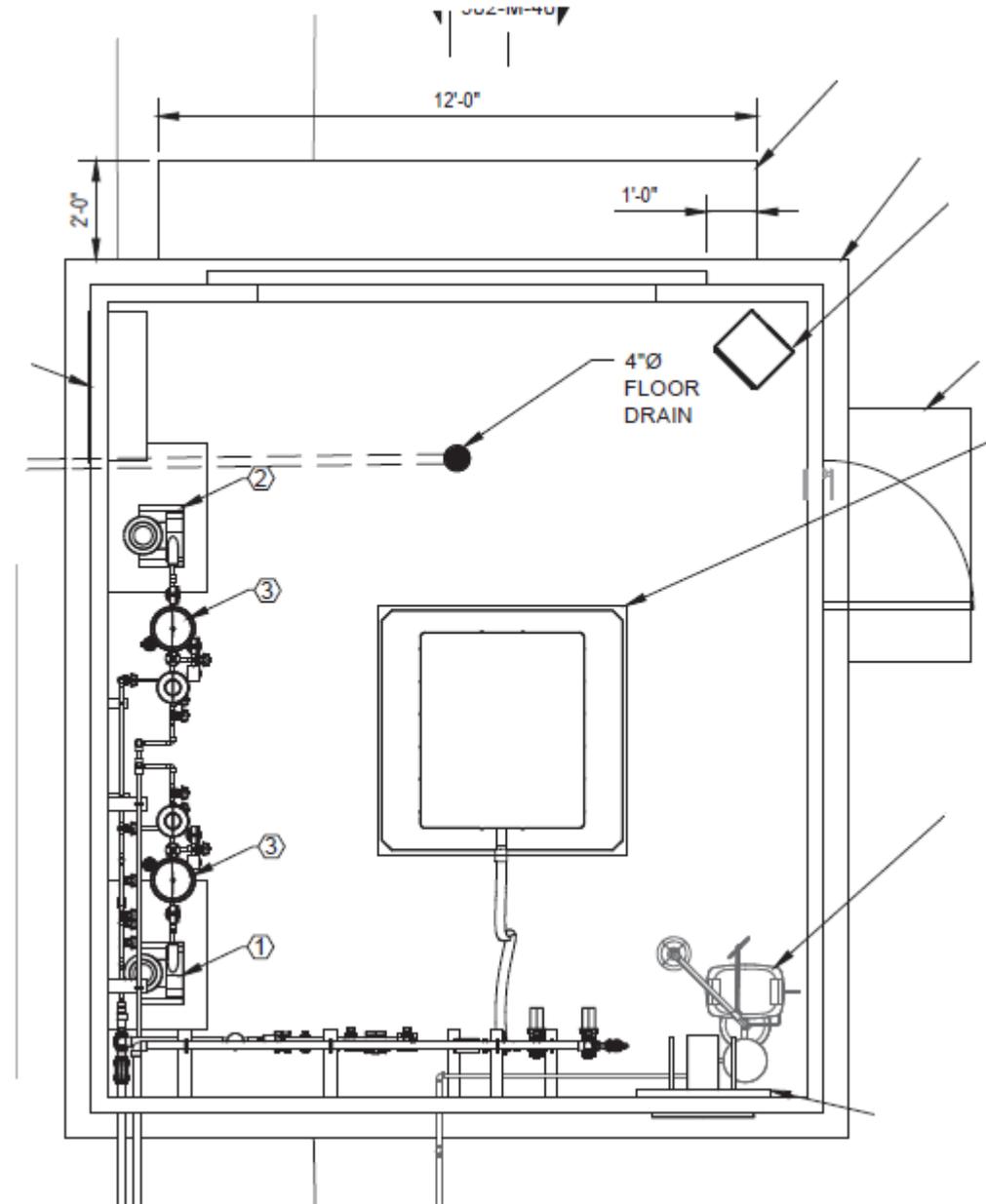
EFW/RAS Chlorination

- Reuse existing chemical containment area
- Two new sodium hypochlorite storage tanks
- New chemical feed pumps in basement of EFW building
 - EFW
 - RAS
- New controls



Defoamer Building

- New pre-engineered FRP building
- Chemical tote
- Feed pumps and piping



Dechlorination Building

- Reuse existing storage tanks
- New chemical feed pumps and piping
- New scrubber

