Addendum No. 1

Four Rivers Sanitation Authority

Aerobic Granular Sludge-Phase I Capital Project No. 2207 IEPA Project No. L17-6127

This Addendum Number 1, dated January 18, 2023, for the above referenced project, supersedes all contrary and conflicting information in the specifications and contract documents, which are hereby supplemented or revised as follows:

I. General Information:

1. The minutes from the mandatory Pre-Bid Meeting held on January 11, 2023 are attached. Questions, comments, discussion, information, and clarifications included in the minutes are hereby considered part of the Contract Documents.

II. The following are revisions to the Specifications:

- 1. The following revisions shall be made to the Table of Contents in Volume 1 of 2.
- 2. The following revisions shall be made to the Table of Contents in Volume 2 of 2:
- 3. The following revisions shall be made to Section 01 50 00 Temporary Facilities and Controls:
 - a. Remove paragraph 1.5.A.2.b in its entirety and replace with the following paragraph "b. Owner supplied 480-volt power is not available."
 - b. Delete paragraph 1.5.A.2.c in its entirety.
- 4. The following revisions shall be made to Section 07 11 00 Dampproofing:
 - a. Delete paragraph 2.2.A.1 in its entirety.
 - b. Delete paragraph 2.2.A.3 in its entirety.
 - c. Re-number paragraph 2.2.A subparagraphs.
- 5. The following revisions shall be made to Section 08 12 00 Flush Aluminum Doors and Frames:
 - a. Delete this section in its entirety.
- 6. The following revisions shall be made to Section 31 23 11 Excavation and Fill for Structures:

- a. Remove paragraph 2.1.H and replace with the following:
 - i. "H. Controlled Low Strength Material (CLSM)
 - 1. CLSM shall consist of a mixture of Portland cement, fly ash, sand, and water and shall be placed at locations indicated on the Drawings or as directed by Engineer.
 - 2. CLSM shall meet the requirements of IDOT Standard Specifications for Road and Bridge Construction, Section 1019 Controlled Low-Strength Material, Mix 2 or Mix 3.
 - 3. Contractor shall design and test the CLSM. The mix design shall be such as to ensure that the CLSM hardens sufficiently to support the weight of an average person in one to four hours after placement and support equipment weight in 24 hours. The mixture shall be designed such that when tested in the field with the Kelly Ball apparatus per ASTM D6024, the maximum depression diameter shall be 3 inches. CLSM shall be self-leveling and shall have an average patty diameter from 8 to 12 inches when the flow is measured in accordance with ASTM D6103.
 - 4. The batch proportions accepted by Engineer apply only for materials from the same source and having the same characteristics as the materials used in the mix design. Materials from any other source shall be used only with the acceptance of Engineer.
 - 5. If a change in sources of materials is proposed, a new mix design shall be developed and tested by Contractor before the new material is used. When unsatisfactory results or other conditions make it necessary, Contractor shall develop a new mix design to get the desired results.
 - During the progress of the work, no change shall be made in the batch proportions of the ingredients without the acceptance of Engineer."
- b. Paragraph 3.2.G.7, delete "if Contractor requires more than Owner's supply available as specified in Section 01 50 00 Temporary Facilities and Controls."
- c. Remove paragraph 3.4.F and replace with the following:
 - i. "F. Controlled Low Strength Material (CLSM) Fill
 - 1. CLSM shall not be placed on frozen ground. Batching, mixing, and placing of CLSM may be started when weather conditions are favorable and when the temperature is at least 34 degrees Fahrenheit and rising. At time of placement of CLSM, the temperature shall be at least 40 degrees Fahrenheit. Mixing and placing shall stop when the temperature is 38 degrees

- Fahrenheit and falling. Each filling stage shall be as continuous an operation as is practicable.
- 2. CLSM shall be discharged from the mixer by an acceptable procedure into the area to be filled. CLSM shall be placed to limits indicated on the Drawings. Mixing CLSM with in-situ soil shall be avoided.
- 3. When CLSM is placed as backfill against structures, the fill shall be placed in lifts of 2 to 3 feet and the next lift shall not be placed until the previous lift can support the weight of workers without indenting the surface and at least 16 hours have elapsed from the end of placement. Lift thickness shall be reduced as necessary to prevent floatation of the structure.
- 4. When CLSM is placed over culvert or pipelines, they shall be anchored to prevent floatation during the placement of CLSM. Unless otherwise required, CLSM shall be placed to one foot below the finished grade elevation if the finished grade elevation is not more than 5 feet over the top of the culvert or pipe. If the finished grade is more than 5 feet over the top of the culvert or pipe, CLSM shall be placed to an elevation 2 feet over the top of the culvert or pipe, and the remainder shall be backfilled with the specified backfill or as indicated on the Drawings."
- 7. The following revisions shall be made to Section 31 23 33 Trenching and Backfilling:
 - a. Paragraph 3.2.H.7, delete "if Contractor requires more than Owner's supply available as specified in Section 01 50 00 Temporary Facilities and Controls."
- 8. The following revisions shall be made to Section 40 05 19 S01 Ductile Iron Pipe Schedule:
 - a. Add the following pipe services to the schedule:
 - i. All Drain (DRN) Buried; In Plant 250 Cement Mortar
 - ii. All Plant Water (W4 or NPW) Buried; In Plant 250 Cement Mortar
- 9. The following revisions shall be made to Schedule 40 05 64.22-S02 Industrial Butterfly Valves Electric Actuators:
 - a. Revise the size of BFVI-1103, BFVI-1203, BFVI-1303, and BFVI-1403 from 8" to 10."
- 10. The following revisions shall be made to Schedule 40 05 68-S01 Check Valves Schedule:
 - a. Revise the size of CV-1515, CV-1525, and CV-1535 from 16" to 10."

III. The following are revisions to the Drawings:

- 1. Drawing 00-C-101, Sheet 31 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-101.
- 2. Drawing 00-C-102, Sheet 32 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-102.
- 3. Drawing 00-C-107, Sheet 37 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-107.
- 4. Drawing 00-C-109, Sheet 39 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-109.
- 5. Drawing 00-C-110, Sheet 40 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-110.
- 6. Drawing 00-C-111, Sheet 41 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-111.
- 7. Drawing 00-C-112, Sheet 42 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-112.
- 8. Drawing 00-C-114, Sheet 44 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-114.
- 9. Drawing 00-C-115, Sheet 45 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-115.
- 10. Drawing 00-C-116, Sheet 46 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-116.
- 11. Drawing 00-C-301, Sheet 47 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-301.
- 12. Drawing 00-C-302, Sheet 48 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-C-302.

- 13. Drawing 00-E-101, Sheet 49 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 00-E-101.
- 14. Drawing 01-S-101, Sheet 56 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-S-101
- 15. Drawing 01-S-102, Sheet 57 of 163:
 - a. At the Effluent Vault, change "TOC EL 693.50" to "TOC EL 690.0."
 - b. Change "Effluent Vault" to "Effluent Box."
- 16. Drawing 01-S-103, Sheet 58 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-S-103.
- 17. Drawing 01-S-301, Sheet 60 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-S-301.
- 18. Drawing 01-S-302, Sheet 61 of 163:
 - a. Section 2, change "2'-4" x 4'-6" SINGLE LEAF ALUM ACCESS HATCH (TYP OF 3)" to "2'-6" x 4'-6" SINGLE LEAF 316 STAINLESS STEEL ACCESS HATCH (TYP OF 3)."
- 19. Drawing 01-S-304, Sheet 63 of 163:
 - a. Section 1, change "2'-4" x 4'-6" SINGLE LEAF ALUM ACCESS HATCH (TYP OF 3)" to "2'-6" x 4'-6" SINGLE LEAF 316 STAINLESS STEEL ACCESS HATCH (TYP OF 3)."
- 20. Drawing 01-M-101, Sheet 66 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-M-101.
- 21. Drawing 01-M-301, Sheet 68 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-M-301.
- 22. Drawing 01-M-401, Sheet 71 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-M-401.
- 23. Drawing 01-M-901, Sheet 76 of 163:
 - a. Remove the entire drawing and replace with the attached drawing 01-M-901

24. Drawing 01-H-101, Sheet 77 of 163:

a. Remove the entire drawing and replace with the attached drawing 01-H-101.

25. Drawing 01-H-401, Sheet 79 of 163:

a. Remove the entire drawing and replace with the attached drawing 01-H-401.

26. Drawing 01-P-402, Sheet 85 of 163:

a. Remove the entire drawing and replace with the attached drawing 01-P-402.

27. Drawing 02-M-101, Sheet 98 of 163:

a. At the outside piping support leader "PS-9 (TYP)", add a reference to Detail D on Drawing 99-S-515.

28. Drawing 02-P-101, Sheet 103 of 163:

a. Remove the entire drawing and replace with the attached drawing 02-P-

29. Drawing 02-E-101, Sheet 105 of 163:

a. Remove the entire drawing and replace with the attached drawing 02-E-101.

30. Drawing 98-M-101, Sheet 116 of 163:

a. Remove the entire drawing and replace with the attached drawing 98-M-101.

31. Drawing 98-M-102, Sheet 117 of 163:

a. Remove the entire drawing and replace with the attached drawing 98-M-102.

32. Drawing 98-E-101, Sheet 120 of 163:

a. Remove the entire drawing and replace with the attached drawing 98-E-101.

33. Drawing 99-S-502, Sheet 132 of 163:

a. Remove the entire drawing and replace with the attached drawing 99-S-502.

34. Drawing 99-S-514, Sheet 144 of 163:

a. Remove the entire drawing and replace with the attached drawing 99-S-514.

35. Drawing 99-P-901, Sheet 155 of 163:

a. Remove the entire drawing and replace with the attached drawing 99-P-901.

This information shall be taken into consideration when preparing your bid. Bidders shall acknowledge all project addenda. This addendum will be emailed to all plan holders as well as posted to FRSA's website at fourrivers.illinois.gov.

End of Addendum No. 1

Issued January 18, 2023

Four Rivers Sanitation Authority

Christopher T. Baer, PE Director of Engineering

AEROBIC GRANULAR SLUDGE – PHASE 1 CAPITAL PROJECT NUMBER 2207 PRE-BID MEETING – JANUARY 11, 2023

BIDDING INFORMATION:

Sign-in sheet is attached for this mandatory meeting; notes will be issued in an Addendum.

Sealed bids are due by 10:00 A.M. Friday, February 10, 2023 at the Four Rivers Sanitation Authority (FRSA) office, at which time bids will be opened and read aloud. Conditional bids will not be read. State revolving loan funds are being used for this project, IEPA Project No. L17-6127. A Notice of Intent to Award based on the lowest, responsive, responsible bid is expected to be approved at the February 27, 2023 FRSA Board meeting. After bid approval by IEPA, a Notice of Award can be issued.

Bid packages are to include a complete proposal on FRSA bid form with all addenda acknowledged, bid security on FRSA form (5% of bid amount), completed Fair Employment Practices Affidavit on FRSA form, and Contractor's statement of qualifications. IEPA loan funding is anticipated for this work; Bidders shall make themselves aware of the specific subcontractor bidding requirements associated with IEPA loan funded projects as identified in the specifications. The apparent low bidder shall submit a Schedule of Values, with subcontracted work identified, before 2:00 pm on Monday February 13, 2023.

This is a lump sum contract; bids shall include all work associated with the project to provide a complete functional system.

Pay request retention is 10% of each pay application. Certified payroll and waivers of lien are required with each application for payment.

Bids shall not include City of Rockford building permit fees or inspections. FRSA has obtained the IEPA Permit to Construct and Own for the completion of this Aerobic Granular Sludge project (Permit 2022-AB-67818, issued November 18, 2022).

The overall project warranty is 1 year from acceptance of the installed and tested system. Individual components may have longer warranty periods in accordance with manufacturer standards. Refer to the Contract Documents.

Written questions must be submitted to FRSA no later than February 6, 2023 to allow time to address by addendum.

BID FORM OR PROPOSAL:

The total lump sum bid amount shall be entered on the bid schedule. In addition, the subcontractor listing, the Base Bid Type I Material and Equipment Schedule, the Base Bid Type III Material And Equipment Schedule, and the Adjustment Unit Price Work And Extended Warranties shall all be submitted with and be included in the lump sum bid amount as indicated.

- The Type I form lists equal suppliers; the bidder shall circle the one they are including in the lump sum price. If bidder is also proposing a substitute supplier, they shall enter the substitute name and amount of credit to Owner if the substitute is allowed; the circled supplier price shall be entered in the lump sum bid, not the substitute.
- The Type III form shall include the supplier's price and the installed cost for each (A) item and this shall be included in the lump sum bid amount.

- Substitutes shall be by request and considered only after Contract award. Per SC-7.04.E-F, substitute submittals shall be provided for review within 2 days of the Effective Date of the Agreement. Approved substitutes will be made by change order.
- FRSA is tax exempt (Federal Excise tax and Illinois Retailer's Occupational Tax) for materials incorporated into the work. Text in the documents, regarding sales tax, is referring to taxes on other items (construction equipment, consumables, etcetera).

PROJECT SCHEDULE:

One milestone is included in the project. The Overflow Structure can be out of service for no longer than 28 days for completion of the work shown on the drawings (\$1,000/day LDs). This structure has a 60" pipe connection to our Aeration Basin influent flow, with no means of isolating the flow. FRSA can shut down the system for approximately 3 hours during dry low flow conditions. Contractor will need to pump down the system and install temporary plug(s) on the 60" pipe(s) on north side of the structure in order to perform the structure modifications. On January 5, FRSA shut down and ran two 6" self-priming diesel driven trash pumps (1 Godwin + 1 Gorman Rupp, combined flow estimated at 2,300 gpm) for 2.5 hours and only dropped the water level to approximately the top of the 60" pipes in the chamber upstream of the Aeration Basin's Splitter Box and in the Overflow Structure.

Work on the Distribution Chamber (installing new 8" WAGS/WLC pipe with slide gate) shall be planned and performed so the structure is off-line for no more than 72 hours. Again, a plant shutdown will be necessary to allow installation of a temporary plug in the 60" pipe on north side of the structure so Primary Settling Tanks 5 – 10 can remain in service while the Distribution Chamber work is performed. PST 1-2 and Primary Filters 1-2 will need to remain off line until the Distribution Chamber work is complete.

Inlet sewer manhole work shall be completed while the manhole remains in service.

Work on the Filter Effluent Pumping Station can best be performed after the Overflow Structure work is completed. FRSA will be re-routing the River Station roof drains and drain sump piping that currently flow to the Filter Effluent Pumping Station.

The project shall be substantially complete within 548 consecutive calendar days of notice to proceed. Liquidated damages shall be \$2,000 per calendar day following the 548 calendar day deadline, until substantial completion is achieved. See General Condition 15.03 Substantial Completion and the Supplementary Conditions for definition of substantial completion.

The project shall be fully complete, including completion of punch list items, within 609 consecutive calendar days of notice to proceed. Liquidated damages shall be \$1,000 per calendar day for completion following the 609 calendar day completion deadline. See General Conditions 15.05 Final Inspection and 15.06 Final Payment, along with associated Supplementary Conditions, for requirements of final completion and payment.

Sequencing is critical to maintain operation of the treatment systems throughout the construction phase of the project. Any existing system outages necessary to complete the work shall be requested at least 7 days in advance of the planned outage. The request shall include a detailed schedule and sequence of activities; the request shall verify that all associated materials are on site. Additional FRSA preparation time may be necessary in order to take a process off-line, such as for reducing sludge inventories or transfer of electrical feeds.

Shop drawings shall be submitted and approved early in the project. Assume two weeks FRSA review time for each submittal and each resubmittal.

Project status meetings shall be conducted by the Contractor on-site every other week, adjusted throughout project as needed based on work activities. Minutes of the meetings shall be prepared by Contractor and submitted to all attendees.

PROJECT DETAILS:

Aerobic Granular Sludge-Phase I, Capital Project No. 2207, IEPA Project No. L17-6217, is comprised of all labor, materials, equipment, and supervision required to construct a complete project generally consisting of the following items:

A. AGS Reactors which consists of:

- a. Four AGS Reactors containing Aerobic Granular Sludge Equipment.
- b. Pipe Gallery with two stair towers, piping, valving, metering, HVAC, and plumbing.
- c. WAGS/WLC Wetwell with three submersible pumps.
- d. All civil, structural, architectural, electrical, mechanical/HVAC, instrumentation and controls, and piping and valves for a complete, operable Aerobic Granular Sludge system.

B. AGS Support Facilities which consists of:

- a. Blowers containing three high speed gearless turbo blowers, air piping, and appurtenances.
- b. Provide and install all MCCs, VFDs, panels, and controls along with associated conduit and wiring.
- c. All civil, structural, architectural, electrical, mechanical/HVAC, instrumentation and controls, and piping and valves for a complete, operable AGS Support Facilities.

C. Modifications and connections to existing yard structures, which consists of:

- a. Distribution Chamber.
- b. Primary Filter Effluent Diversion Structure.
- c. Filter Effluent Pumping Station.
- d. Overflow Structure.
- e. Inlet Sewer Manhole.

D. Site and Structure Demolition, which consists of:

- a. Trickling Filter Nos. 2 and 4.
- b. Drainage Pump Station.
- c. Meter Vault.
- d. Bypass Chamber.
- e. Pavements, yard piping, and electrical duct bank.

- f. Temporary power to support existing facilities while electrical feeds are out of service during replacement.
- E. Provide site work, yard piping, and electrical improvements.
- F. Provide, install, and start-up, new Contractor supplied facilities and equipment.
- G. Provide O&M manuals, record drawings, and other close out documents as indicated.
- H. Most of the reinforced concrete tank and structure walls require textured surfaces on above grade portions, using form liners as indicated and specified; stain colors for the finished surfaces are also indicated. Renderings on the Board Room walls are for the Primary Filtration Phase 1 Project, but they provide a visual of the architectural concept. An approved mock-up using the proposed form liner, stain, masonry, and finished metal materials is required prior to start of the associated work.
- Painting is required as indicated on the architectural schedule and Section 09 96 00. All
 exposed project piping shall be painted ANSI gray and labeled with plastic wrap labels per
 specifications.
- J. All control wiring shall be installed and labeled by Contractor. Terminations in existing FRSA plant control system PLC cabinets will be performed by FRSA. Wiring to and from, along with all terminations in the new vendor panels, shall be performed by Contractor.

ADDITIONAL CONSIDERATIONS:

The Primary Filtration Project – Phase 1 work is currently under contract, with a final completion date of November 24, 2023. Portions of the AGS project overlap the Primary Filtration Project site areas. The stabilized entrance area and the concrete washout area both are shown in areas already assigned for use in the Primary Filtration Project. The Primary Filtration Project materials storage area is partially located on the AGS site; coordination and cooperation between projects is necessary.

Contractor parking and staging areas are shown on the drawings. Contractor toilet and wash facilities shall be located within these designated areas. Electric power (110-volt) will be available on a limited basis for the Contractor's use, unless abuse occurs at which time Contractor will need to supply their own source. Contractor will be responsible for conveyance of 110-volt power from identified sources to the locations needed by Contractor.

Dewatering for construction of the AGS Reactors and associated facilities shall be designed, permitted, provided, and maintained by the Contractor. Power for dewatering systems shall be provided by Contractor. Submittals are required for SWPPP and for earth retention systems per Division 31 specifications.

The Final Geotechnical Engineering Report dated October 27, 2022 by Geocon Professional Services, LLC is available by request as technical data but is not part of the Contract documents. Email your request to sstrassburg@fourrivers.illinois.gov

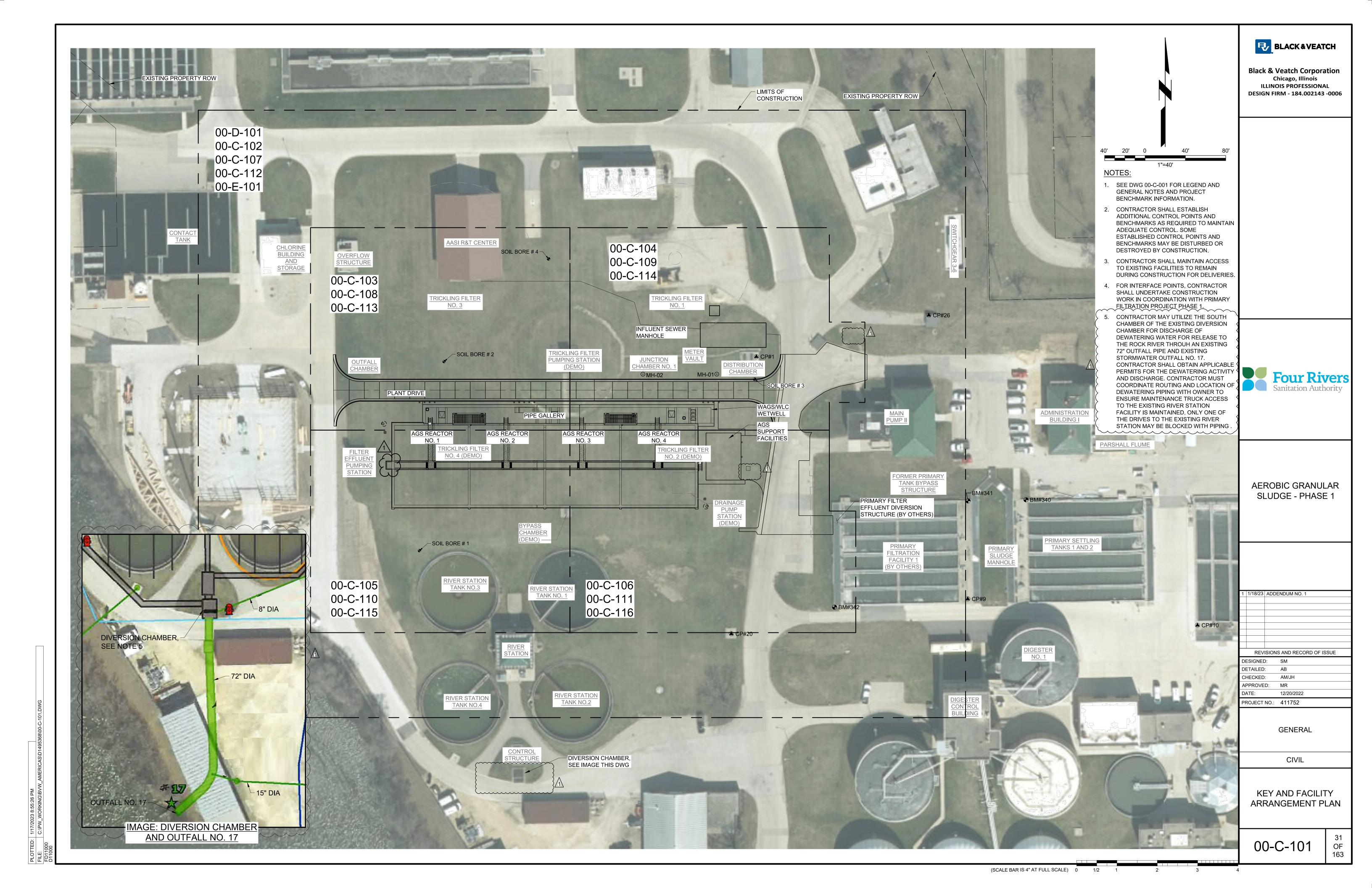
PRE-BID MEETING QUESTIONS AND ANSWERS

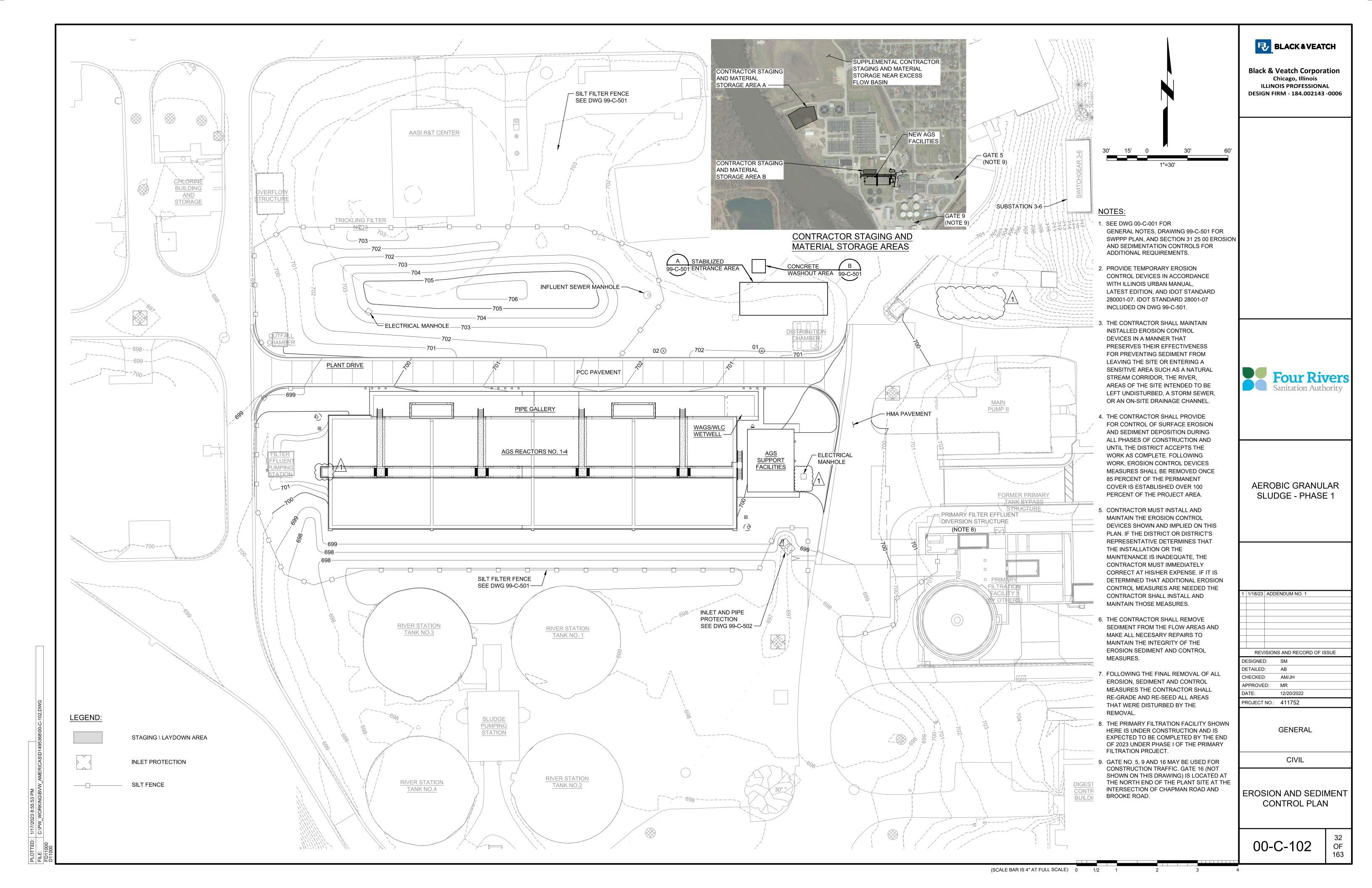
- 1) What is the Engineer's estimate for this project?
 - a. \$44,411,000.
- 2) Does the Geotechnical Report contain historical groundwater information in addition to data for the past year dry conditions?
 - a. The Geocon AGS Final Geotechnical Engineering Report includes limited data besides that obtained in 2022. Historical Rock River data is readily available from other sources. The proximity of the Rock River to the proposed site, along with the underlying soil strata provide sufficient evidence regarding the ground water relationship to the river elevation.
- 3) Are any other geotechnical reports available from previous projects at the site?
 - a. The report mentioned above is the only one for the AGS site with pertinent groundwater and soil information.
- 4) Will this project be constructed if IEPA loan funding is not available?
 - a. The project is on IEPA's intended funding list and assigned IEPA WPCLP project number L17-6127. Historically, FRSA has received loan funding whenever a project is on the intended funding list. There is always a chance that a project will not be approved for funding.
- 5) Does the schedule consider the current material delivery issues in the construction industry?
 - a. After evaluation of the current industry conditions prior to advertising, the project completion date was extended to the current 609 consecutive calendar days.
- 6) Does this project need to follow BABA requirements?
 - a. Based on timing of this project, BABA does not apply.
- 7) Is there a time of the day that is best to perform system outages?
 - a. Plant flows are usually lowest in the early morning hours. FRSA can generally accommodate work outside of regular hours for special events.
- 8) Does FRSA perform their own system integration or is a control system integrator required for the AGS project?
 - a. See specification Section 40 61 11 for requirements. Contractor and AGS System Supplier are responsible for the new hardware, software, and programming required for the new AGS system and related components as indicated and specified. The Owner is responsible for programming updates to the existing aspects of the Plant Control System.
- 9) Where can dewatering system water be discharged?
 - a. The water should be discharged to the Rock River. However, traffic on the main plant road between the AGS site and the Rock River can not be obstructed.
 - b. The Diversion Chamber south of the River Station (Building 14) has a 72" pipe to the Rock River (FRSA's Outfall #17).
 - c. With proper water extraction permit and water discharge permit, this outfall is available for the Contractor's use. All water discharge permit requirements must be satisfied.
 - d. One driveway to the River Station shall be available for FRSA maintenance truck access at all times.

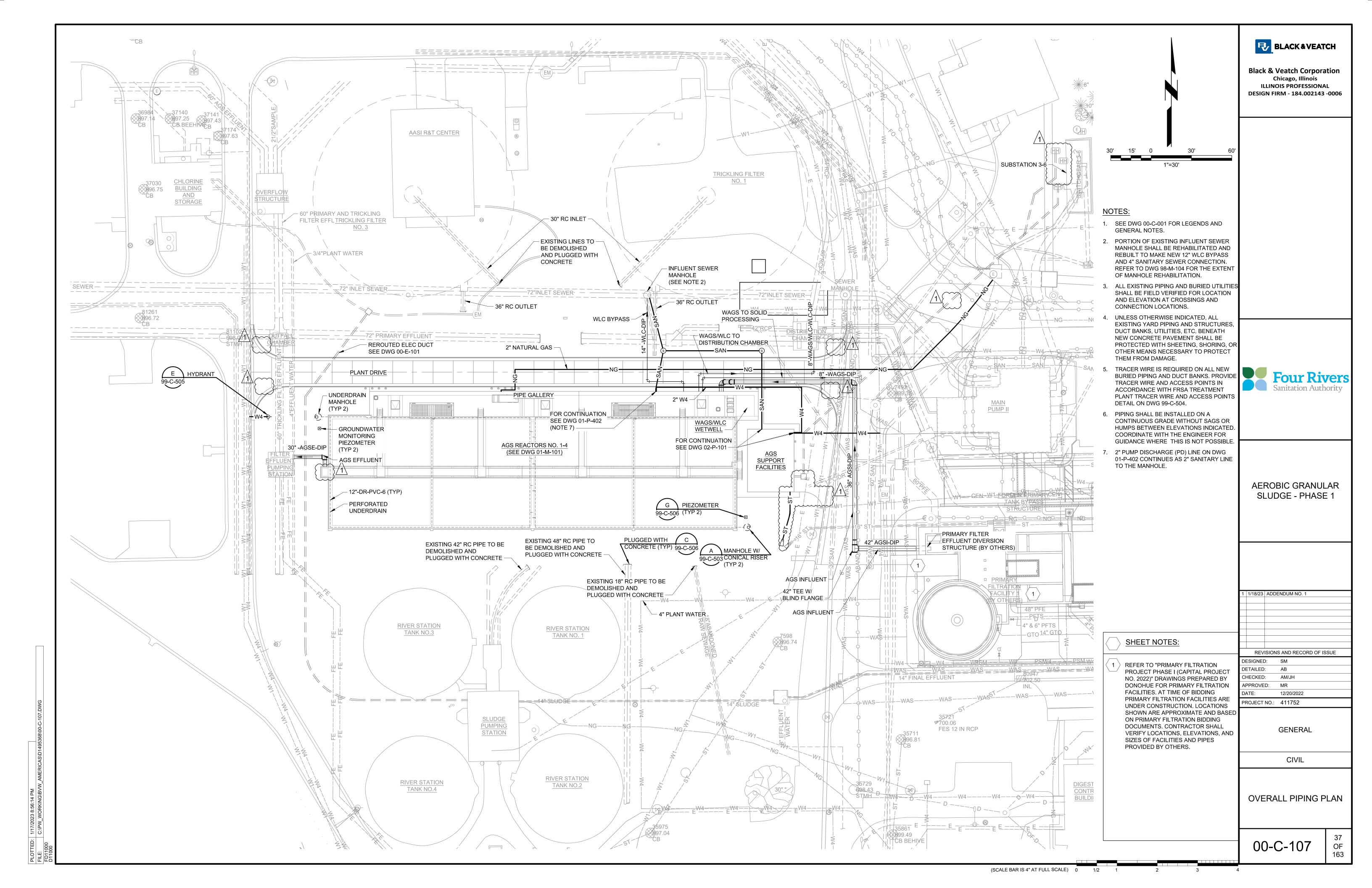
Aerobic Granular Sludge-Phase I, Capital Project No. 2207 IEPA Project No. L17-6127 Mandatory Pre-Bid Meeting

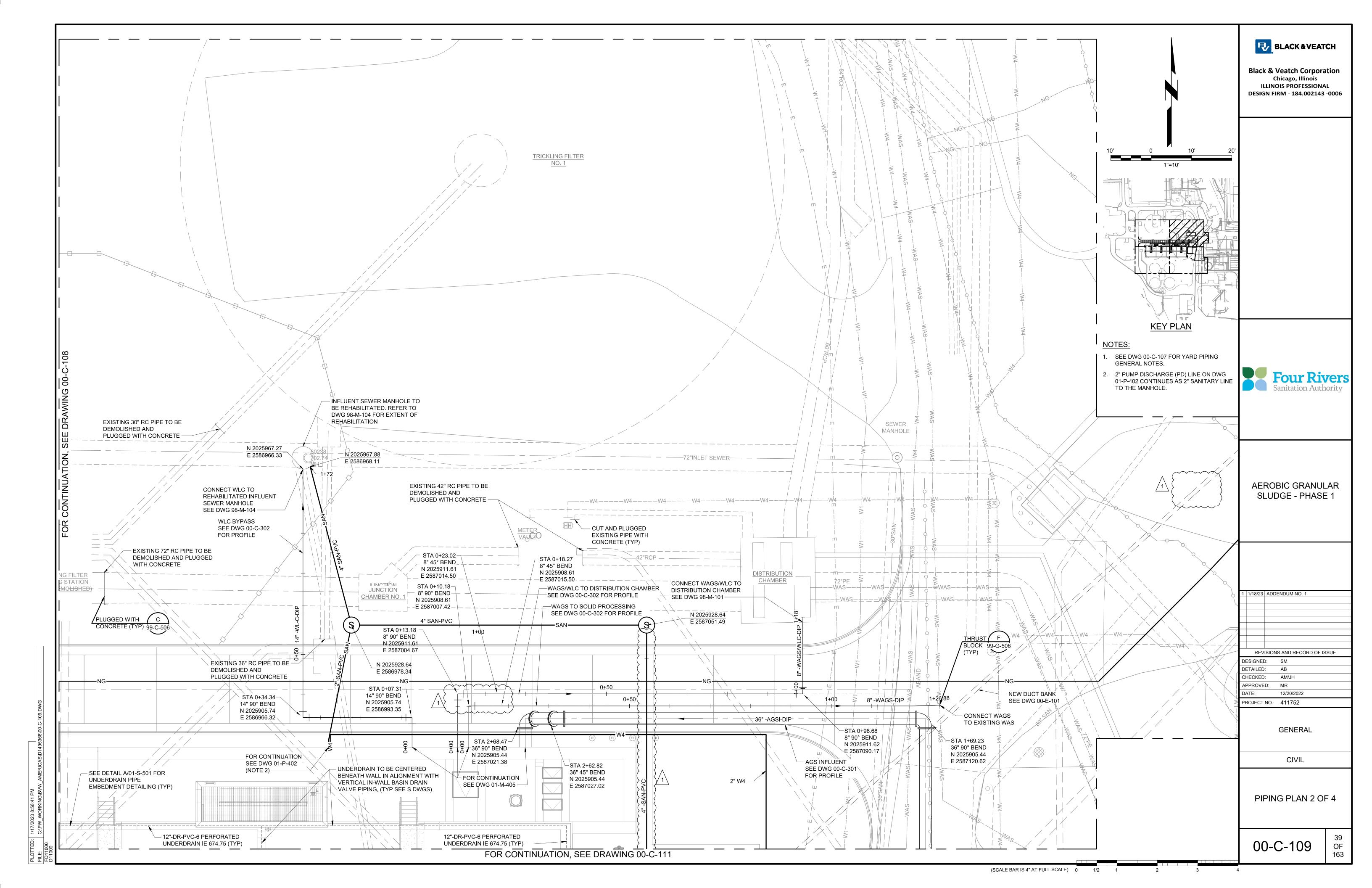
Date and Time: Wednesday, January 11, 2023 at 1:00 p.m.

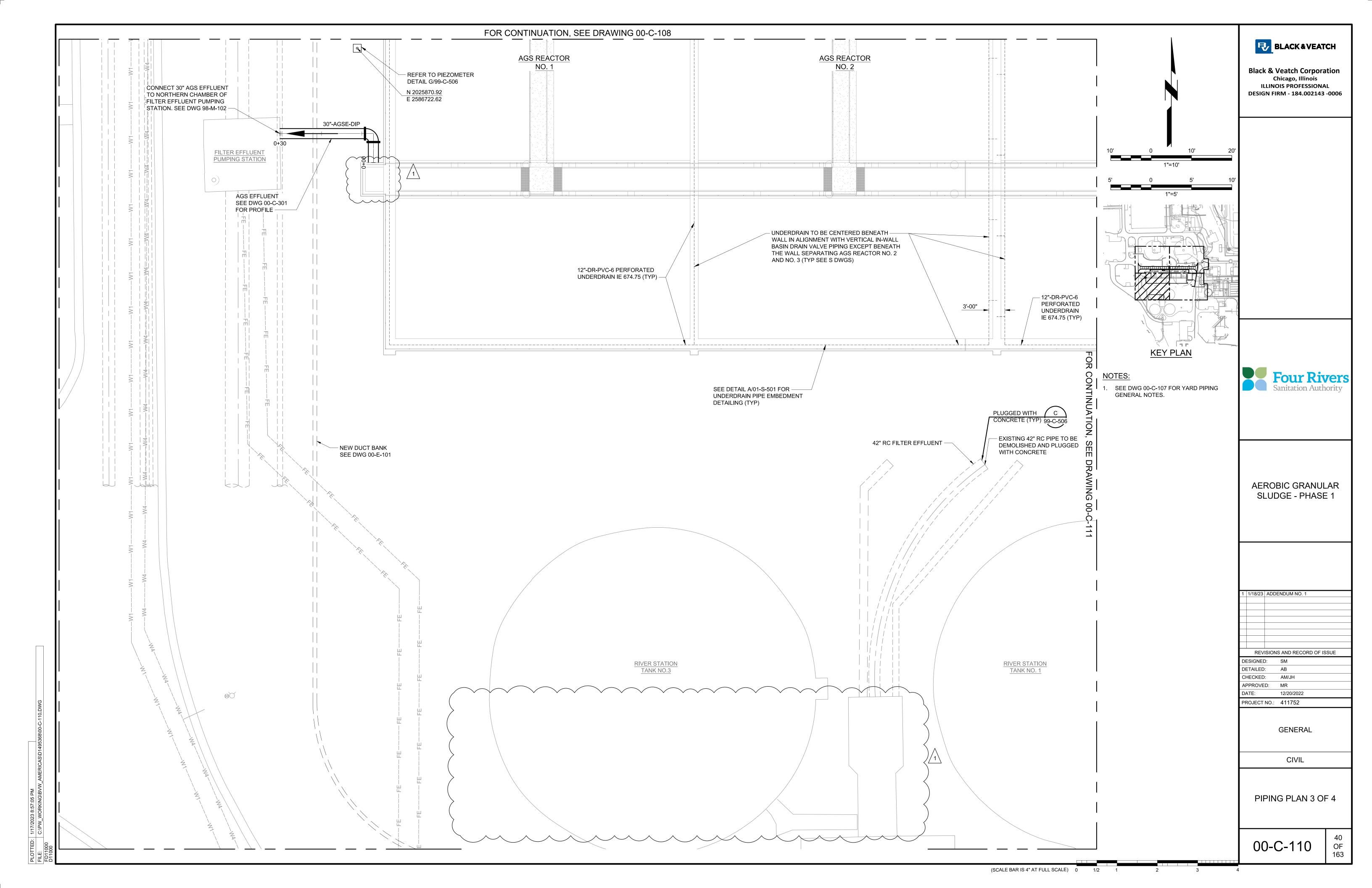
Name	Company	Mailing Address	Phone Number	Email Address
Chris Baer	FRSA	3501 Kishwaukee Street, Rockford, IL 61109	815-387-7660	cbaer@fourrivers.illinois.gov
Scot Strassburg	FRSA	3501 Kishwaukee Street, Rockford, IL 61109	815-387-7657	sstrassburg@fourrivers.illinois.gov
Angie Good	FRSA	3501 Kishwaukee Street, Rockford, IL 61109	815-387-7662	agood@fourrivers.illinois.gov
Warren Adam	FRSA	3501 Kishwaukee Street, Rockford, IL 61109	815-871-0787	wadam@fourrivers.illinois.gov
Dave Koch	Black & Veatch	180 N. Wacker, Suite 550, Chicago, IL 60606	312-683-7829	KochDS@bv.com
Ryan Blackburn	Sjostrom & Sons, Inc.	1129 Harrison Avenue, Rockford, IL 61104	815-243-2212	rblackburn@sjostromconstruction.com
Colin Williams	Williams Brothers Construction	1200 E. Kelly Avenue, Peoria Heights, IL 61616	309-688-0416	estimating@wbci.us
Verlyn Swanson	Morse Electric	500 W. South Street, Freeport, IL 61032	608-425-9444	vswanson@themorsegroup.com
Nate Mullen	Williams Brothers Construction	1200 E. Kelly Avenue, Peoria Heights, IL 61616	309-688-0416	estimating@wbci.us
Dusty Bonnell	Tri-R Systems Inc.	1804 E. Lincoln Highway, Dekalb, IL 60115	815-440-5129	dbonnell@tri-rsystems.com
Steve Stanish	Aqua-Aerobic Systems Inc.	6306 N. Alpine Road, Loves Park, IL 61111	815-654-2501	sstanish@aqua-aerobic.com
Jeff Bockhop	Stenstrom Construction	2420 20th Street, Rockford, IL 61104	815-398-2420	jeffb@rstenstrom.com
Bob Johnson	Helm	2279 US 20 East, Freeport, IL 61032	815-297-6062	bjohnson@helmgroup.com
Anthony Bronge	Sjostrom & Sons, Inc.	1129 Harrison Avenue, Rockford, IL 61104	815-566-1989	abronge@sjostromconstruction.com
Darin Baughman	Helm	2279 US 20 East, Freeport, IL 61032	815-297-8540	dbaughman@helmgroup.com
George Argiris	Drydon Equipment	2445 Westfield Drive, Suite 100, Elgin, IL 60124	630-814-9150	gargiris@drydon.com
Mitch Hameister	Drydon Equipment	34168 N. Tangueray Drive, Grayslake, IL 60030	847-204-7406	mhameister@drydon.com
Pat Wood	IHC	385 Airport Road, Elgin, IL 60123	847-742-1516	estimating@ihcconstruction.com
Mike Mulcahy	Drydon Equipment	2110 Viewside Drive, New Lenox, IL 60451	630-200-2874	mmulcahy@drydon.com
Joe Tardio	Aqua-Aerobic Systems Inc.	6306 N. Alpine Road, Loves Park, IL 61111	815-636-4451	jtardio@aqua-aerobic.com

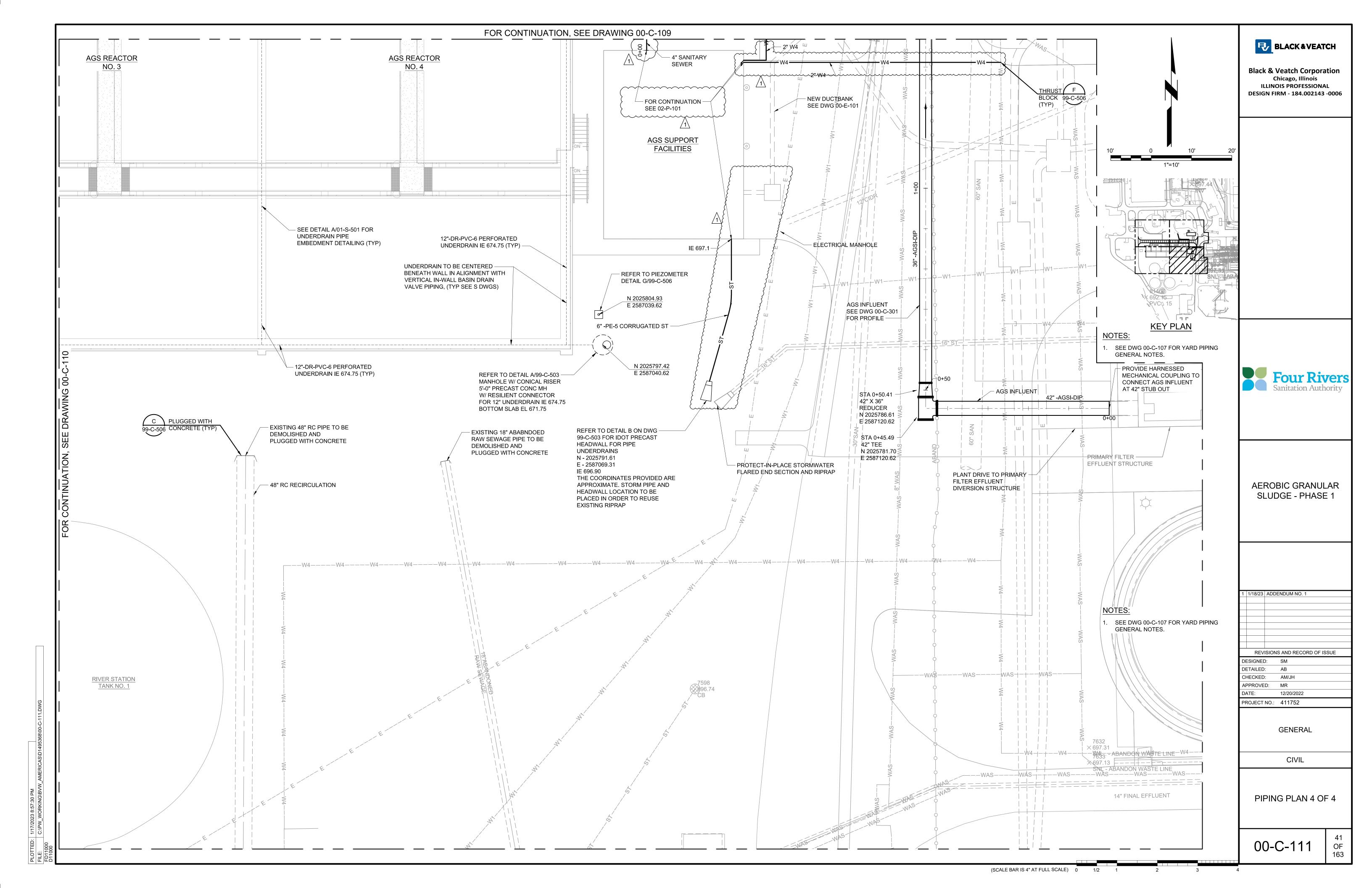


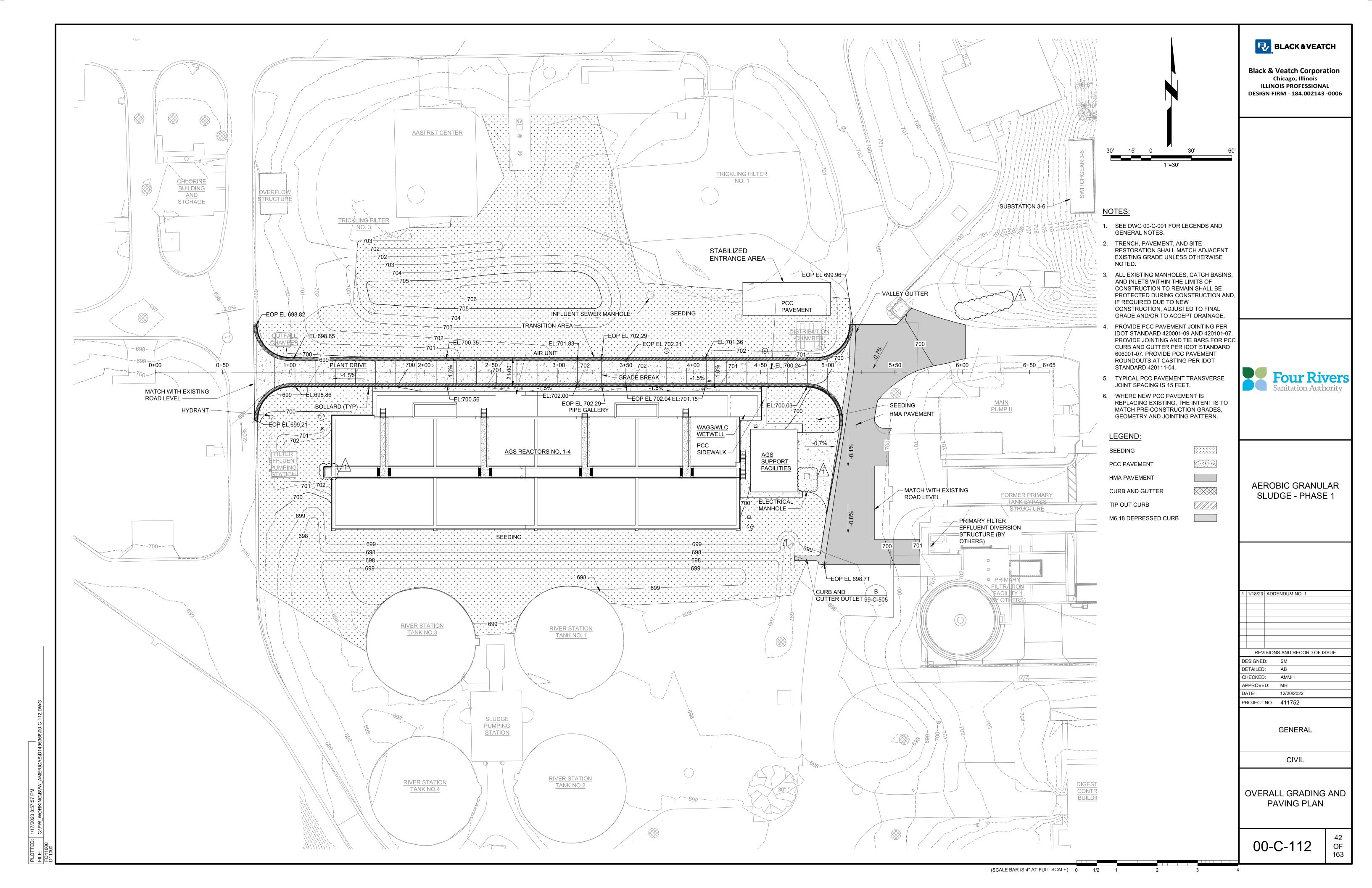


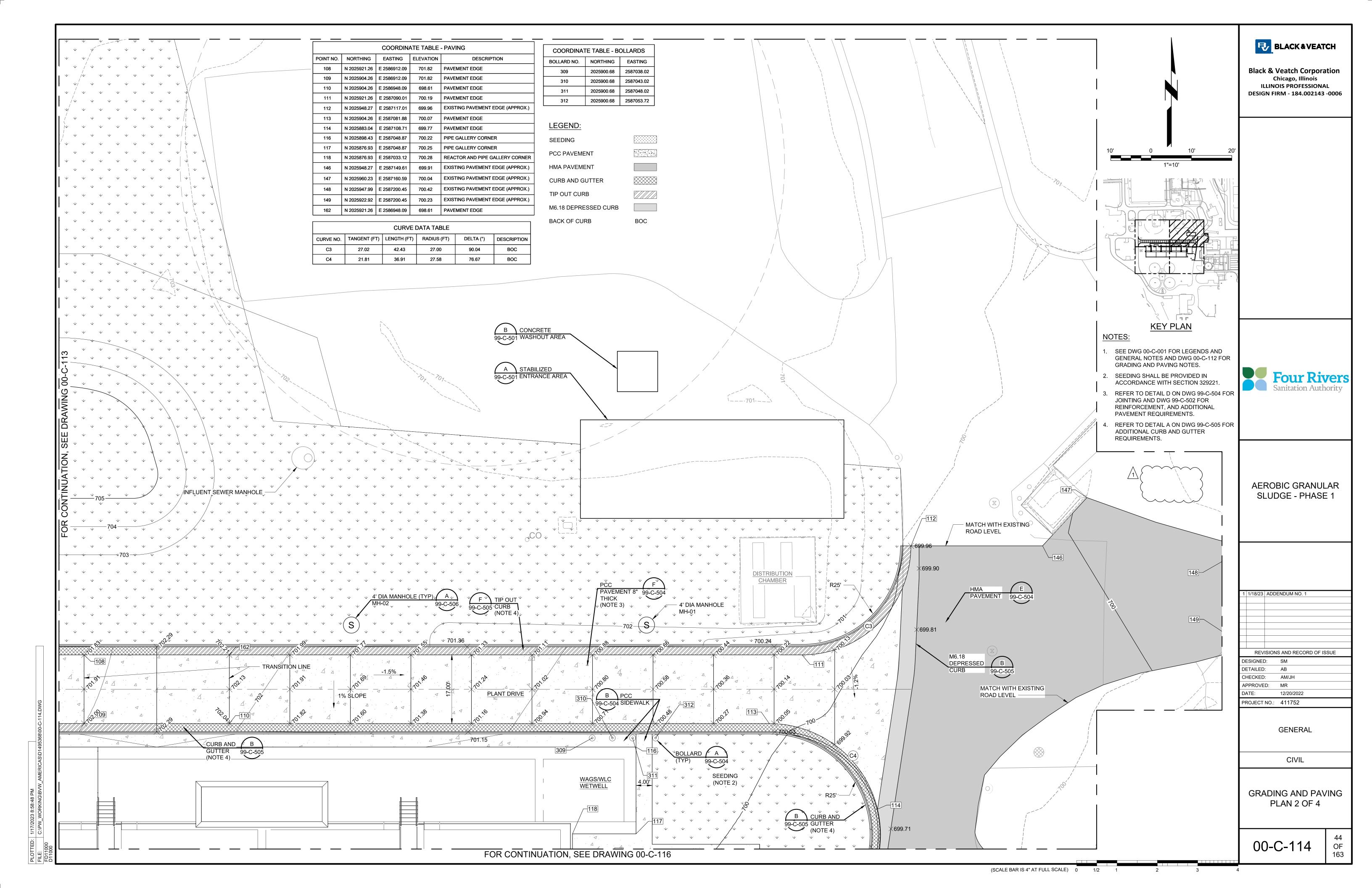


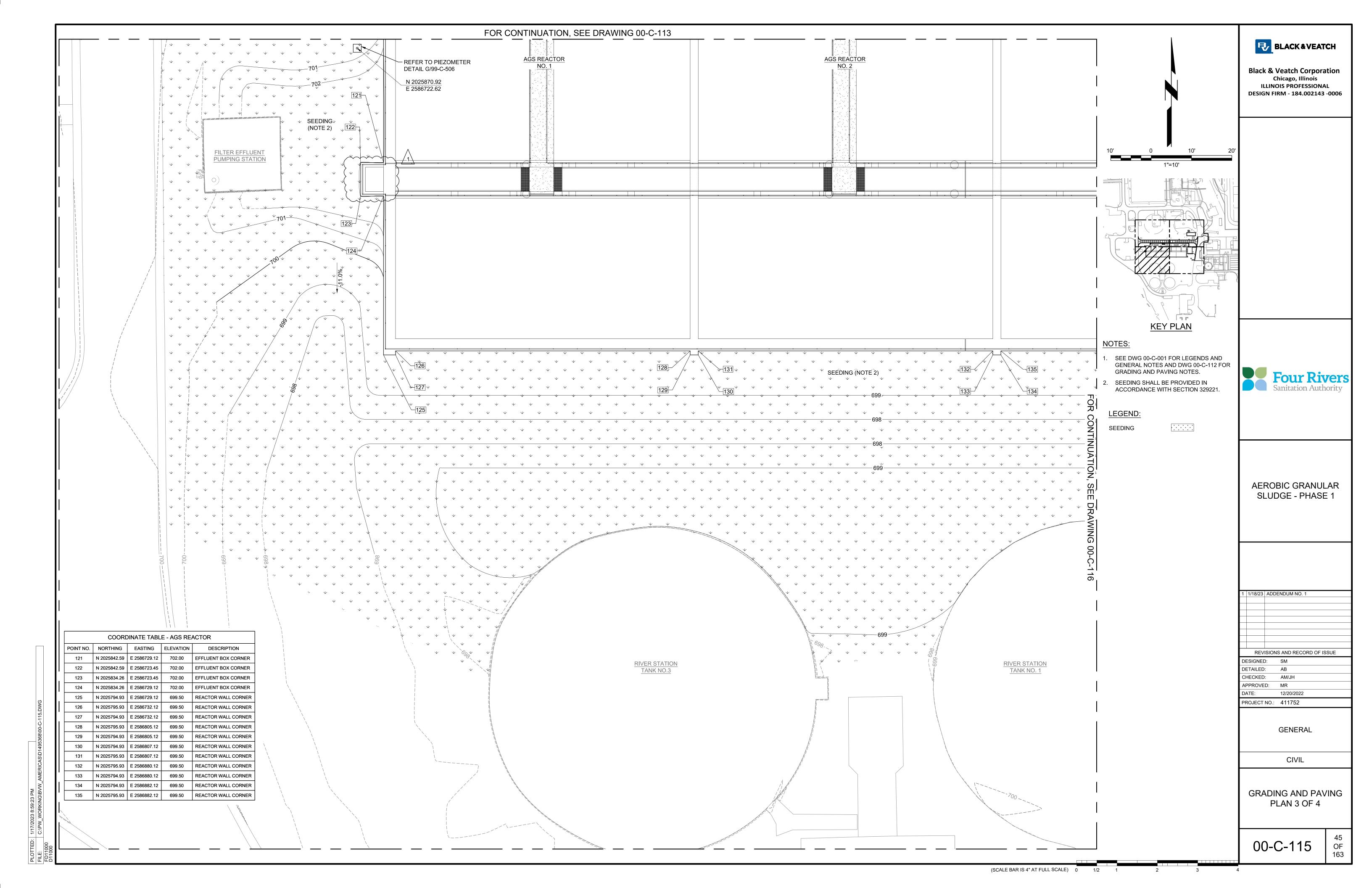


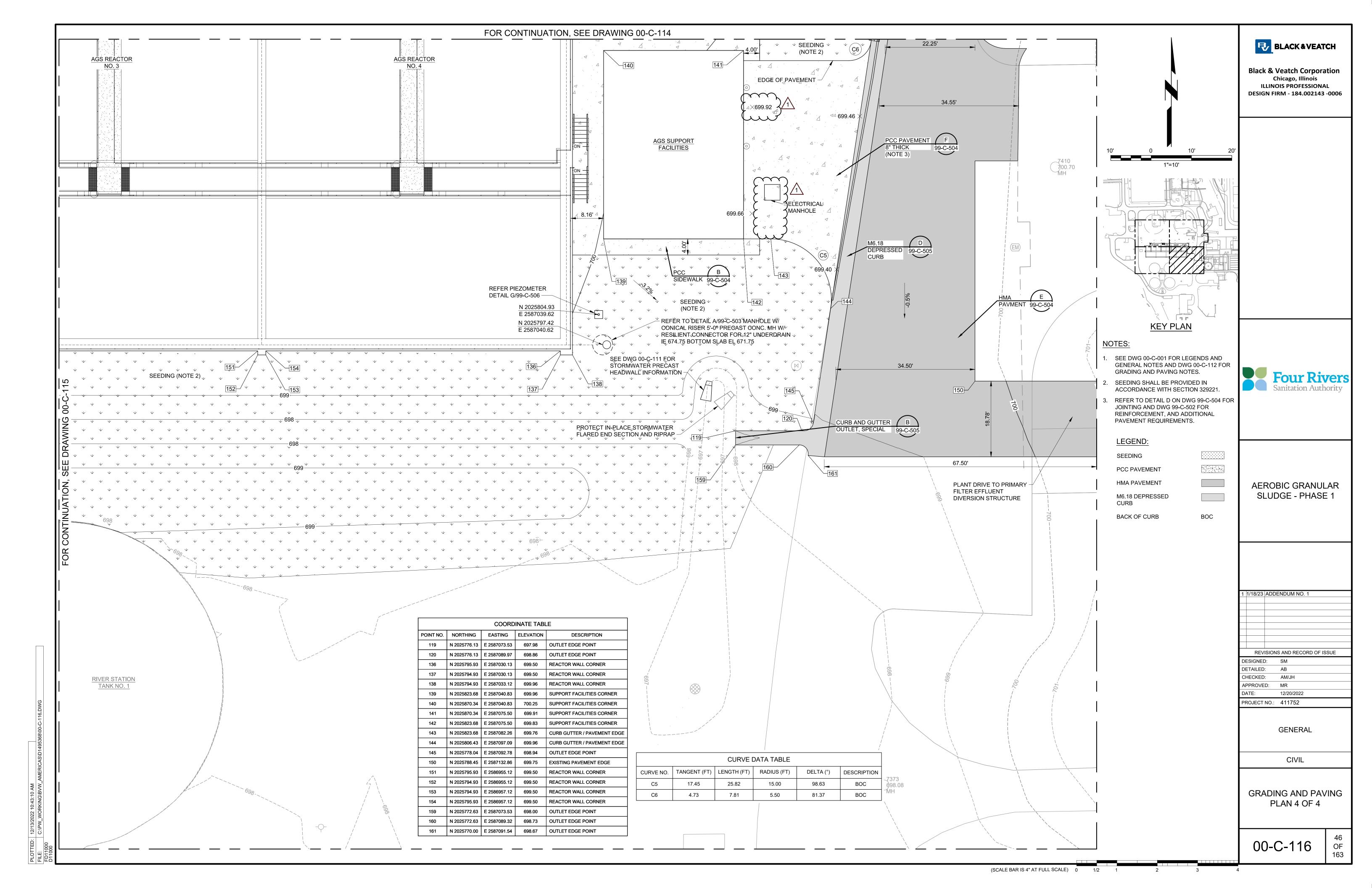


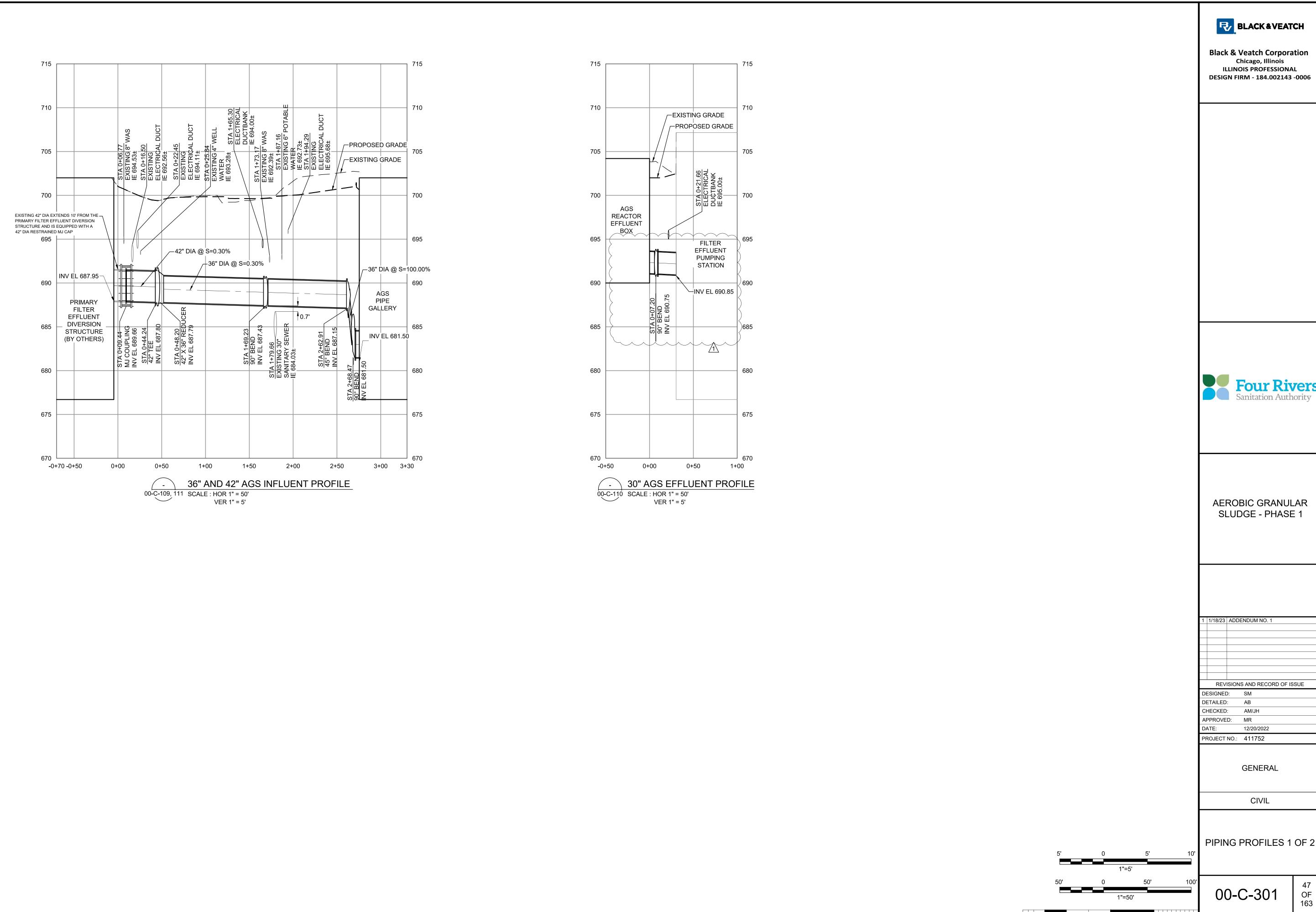




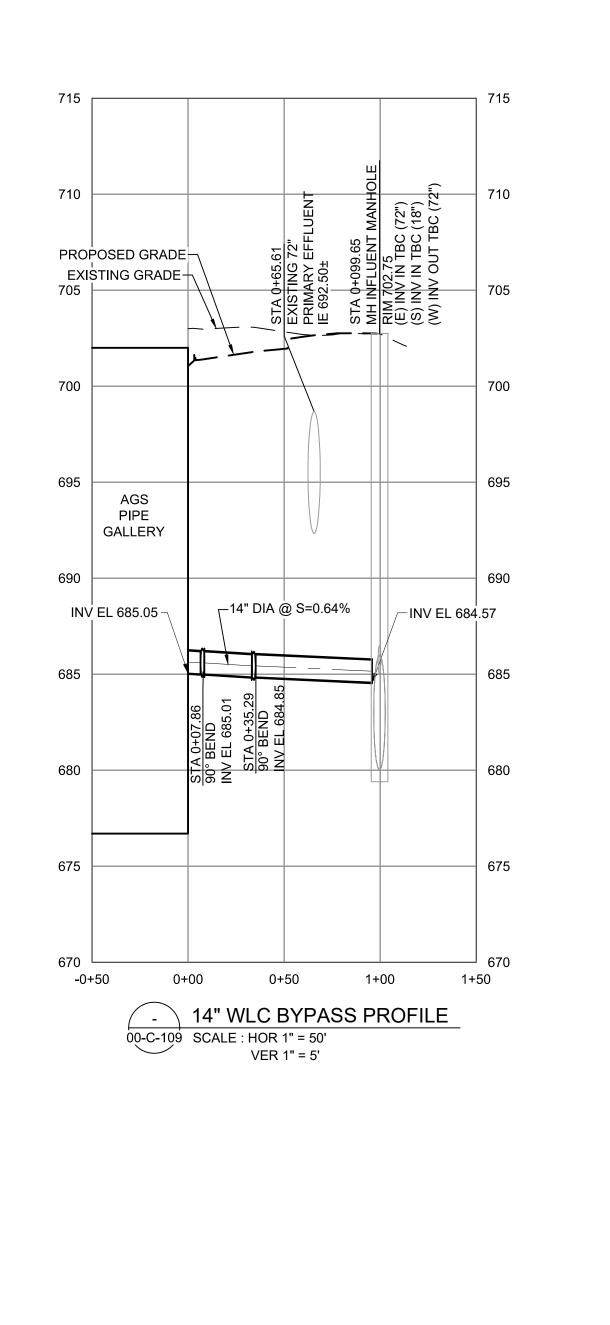


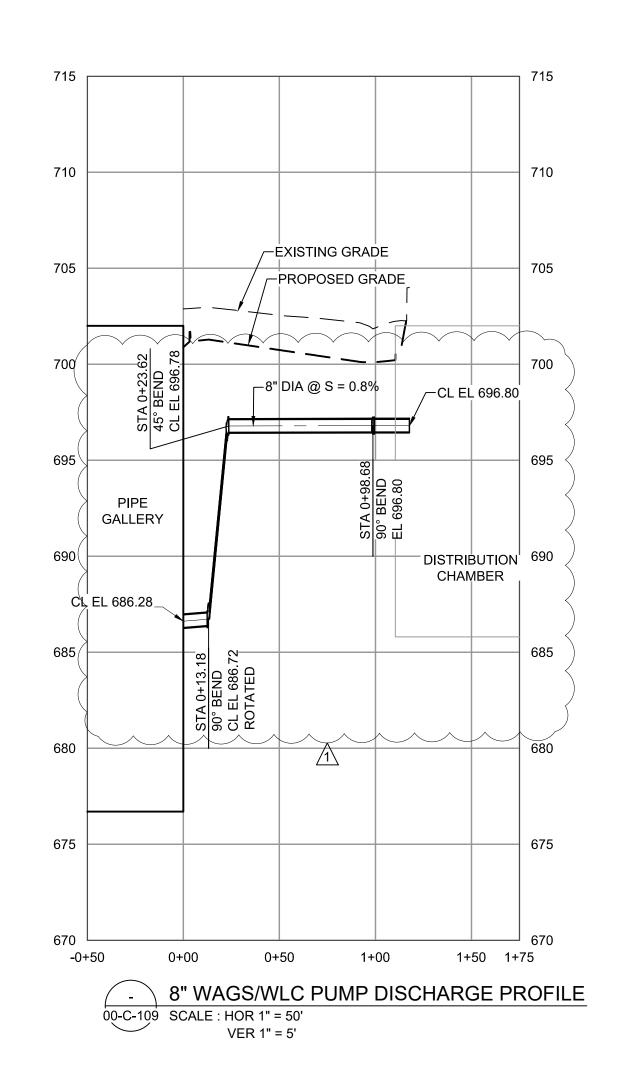


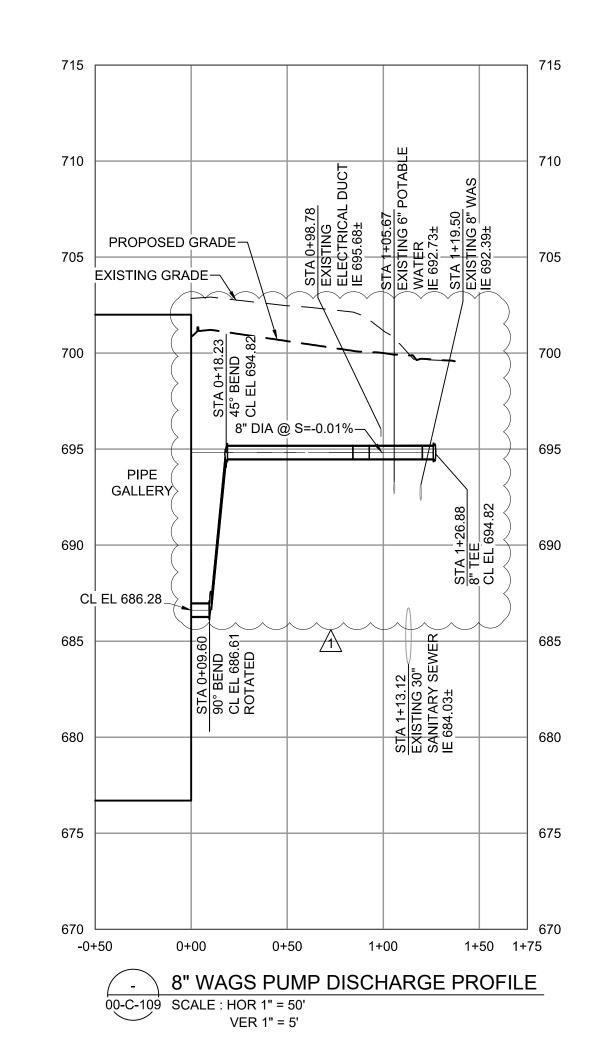




(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3







Black & Veatch Corporation Chicago, Illinois ILLINOIS PROFESSIONAL **DESIGN FIRM - 184.002143 -0006**

BLACK & VEATCH



AEROBIC GRANULAR SLUDGE - PHASE 1

1/18/23 ADDENDUM NO. 1

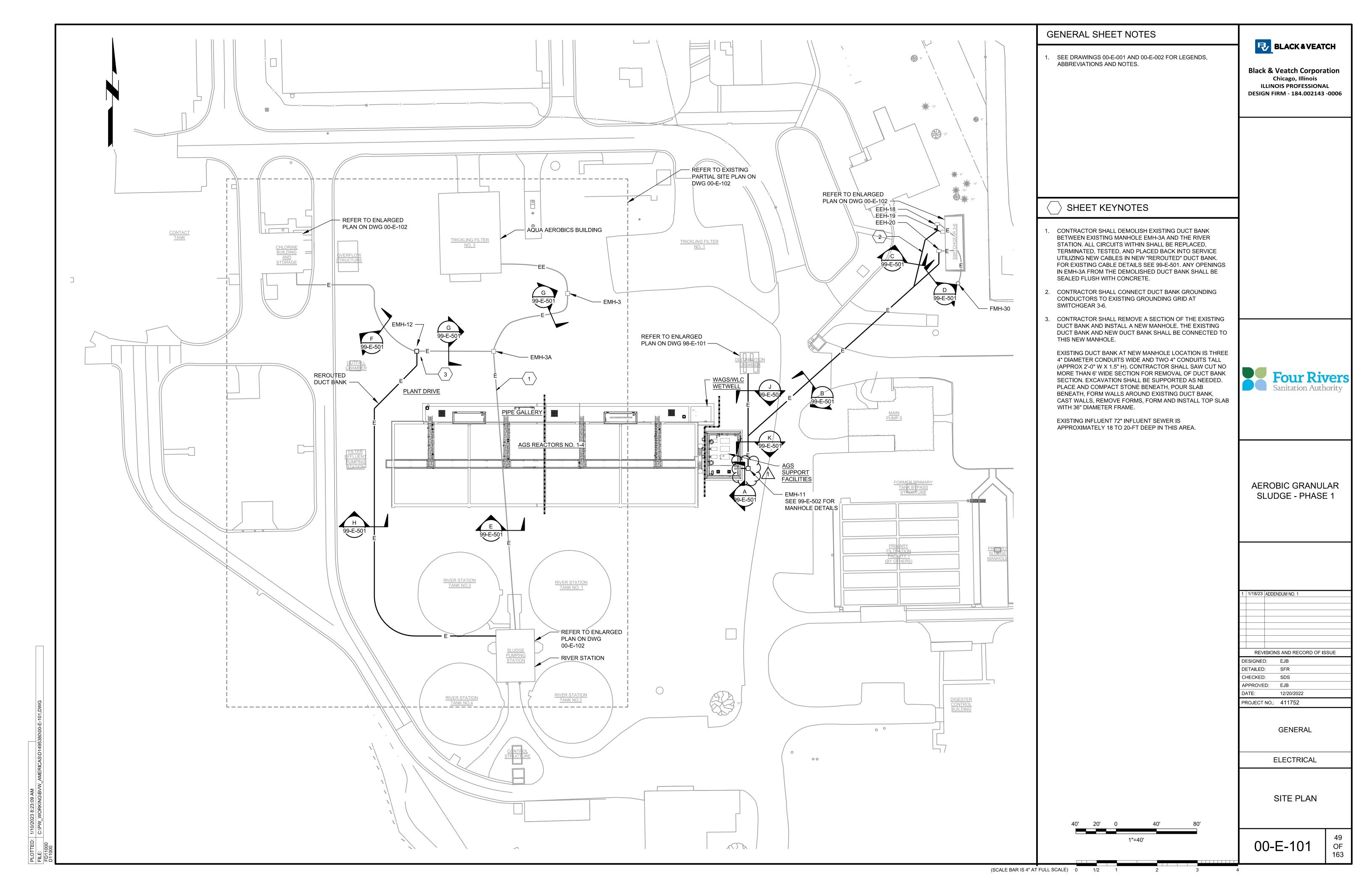
DESIGNED: SM DETAILED: AB CHECKED: AM/JH APPROVED: MR

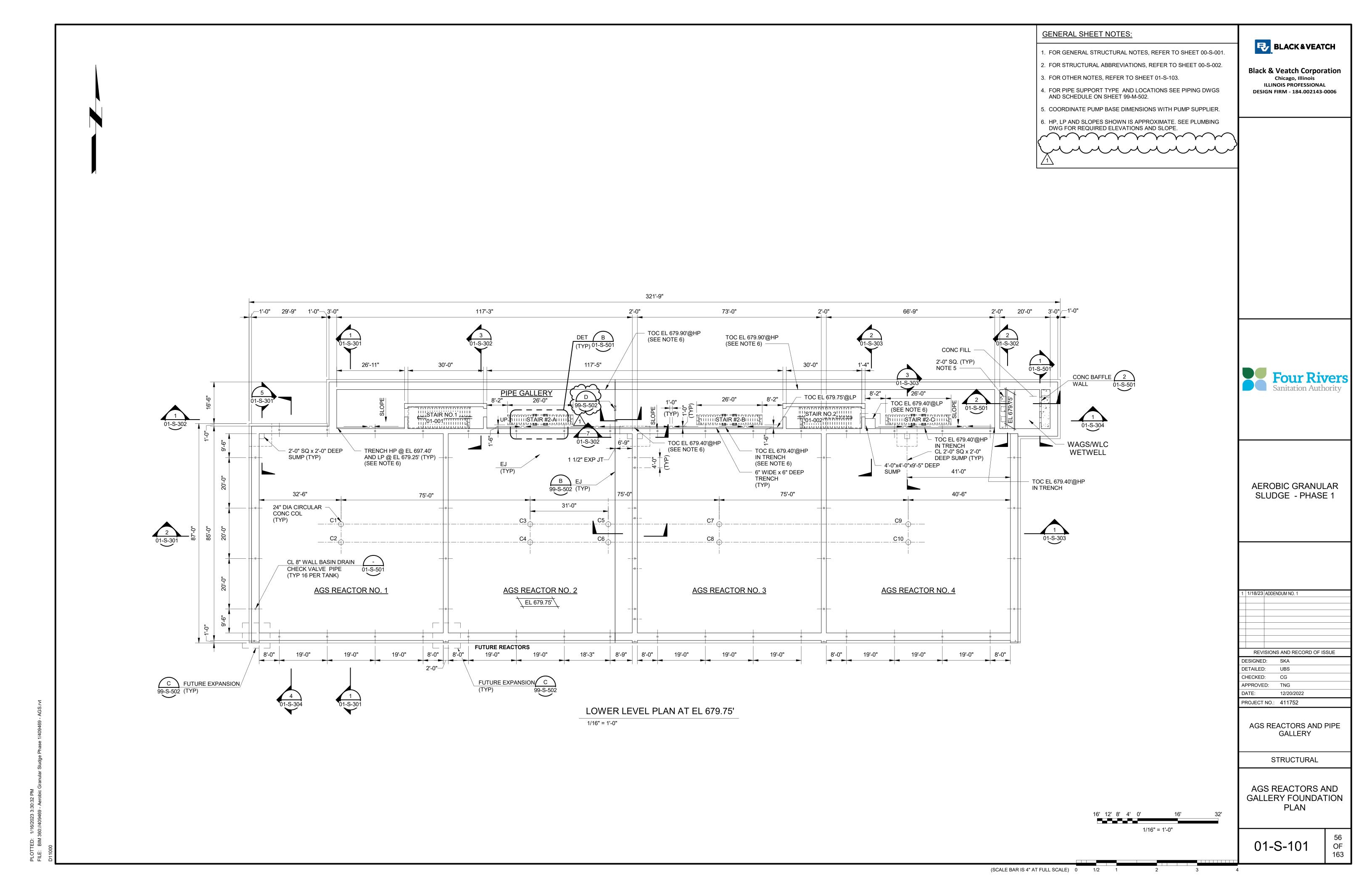
PROJECT NO.: 411752

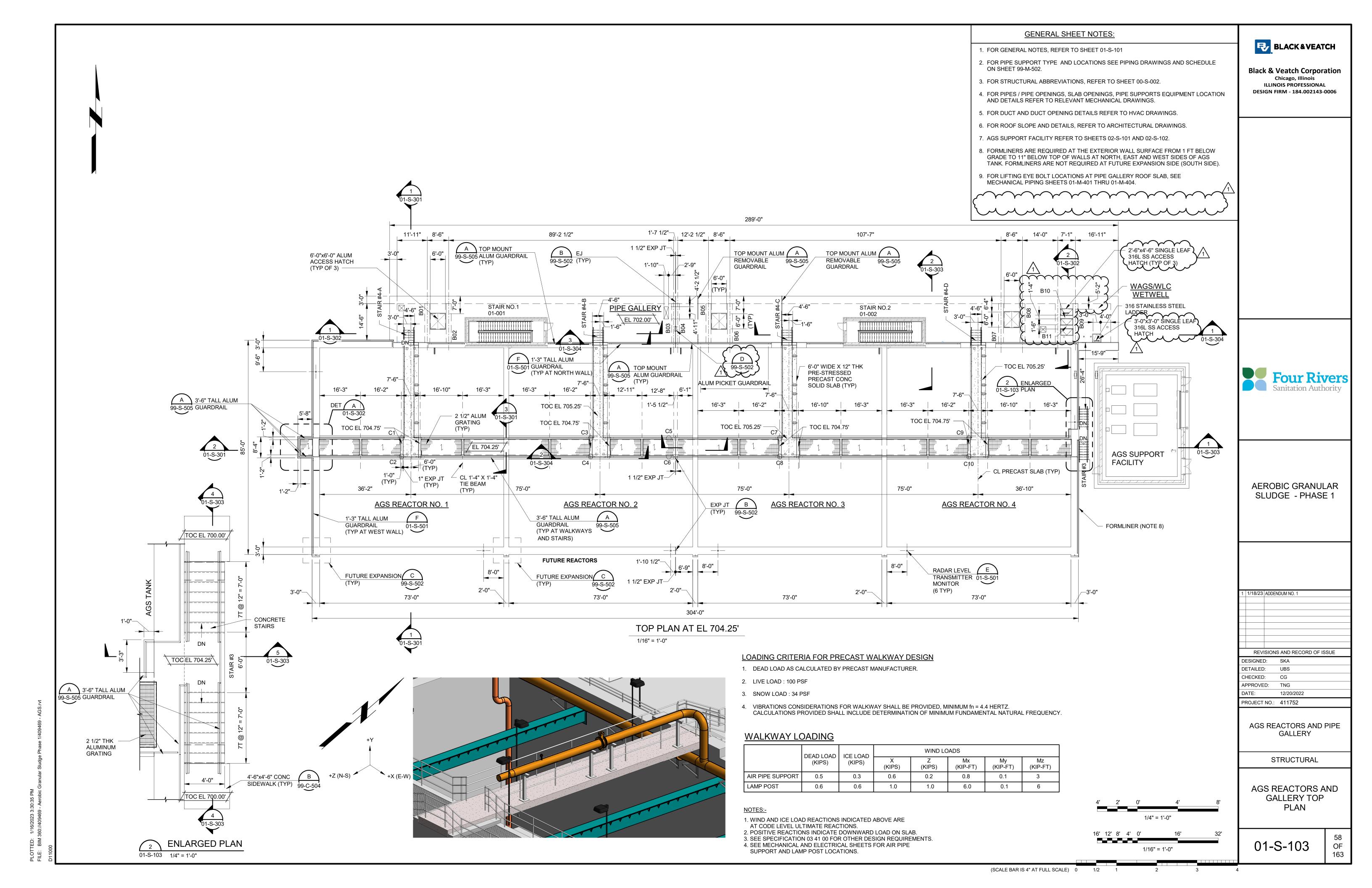
GENERAL

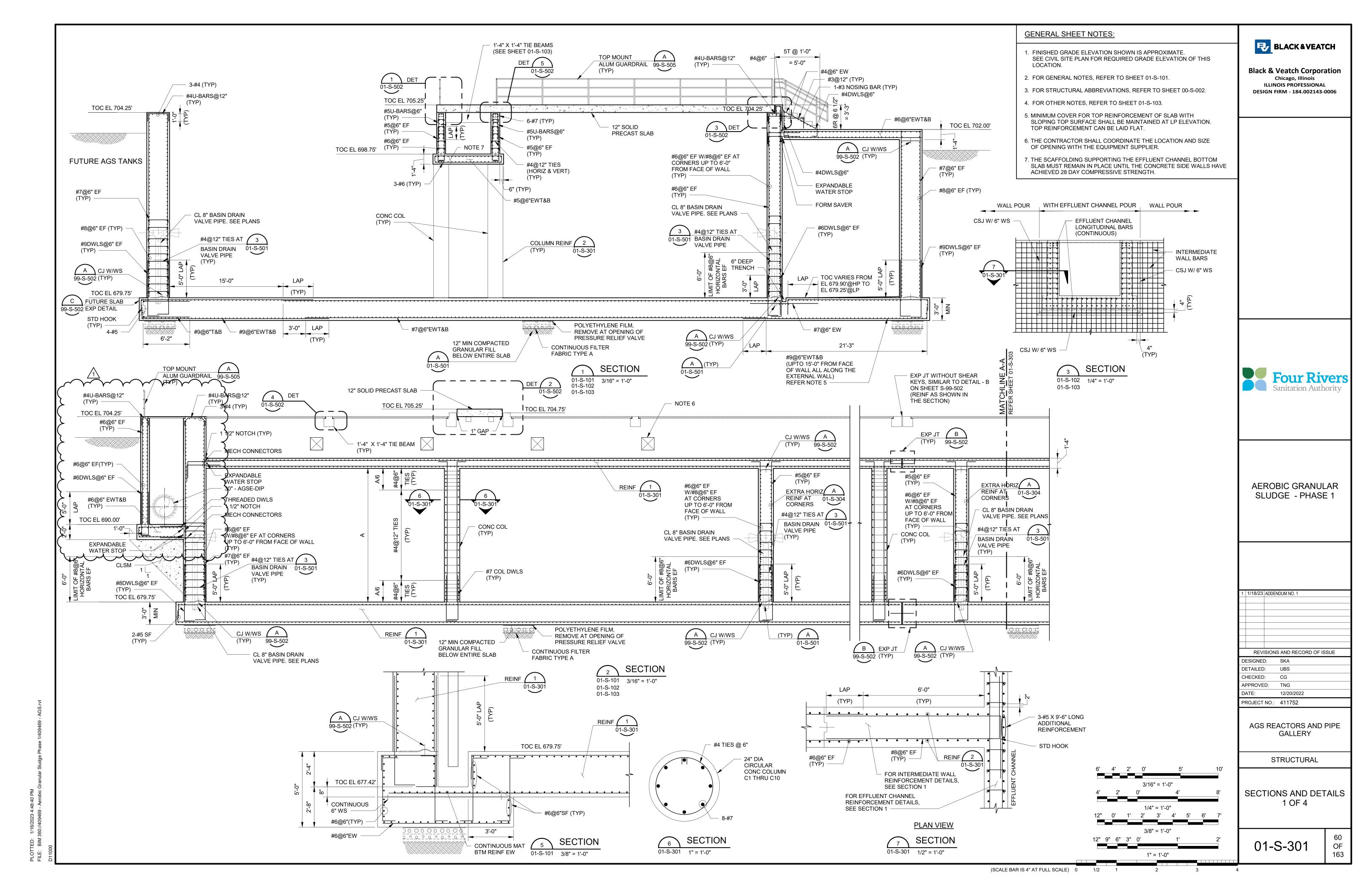
PIPING PROFILES 2 OF 2

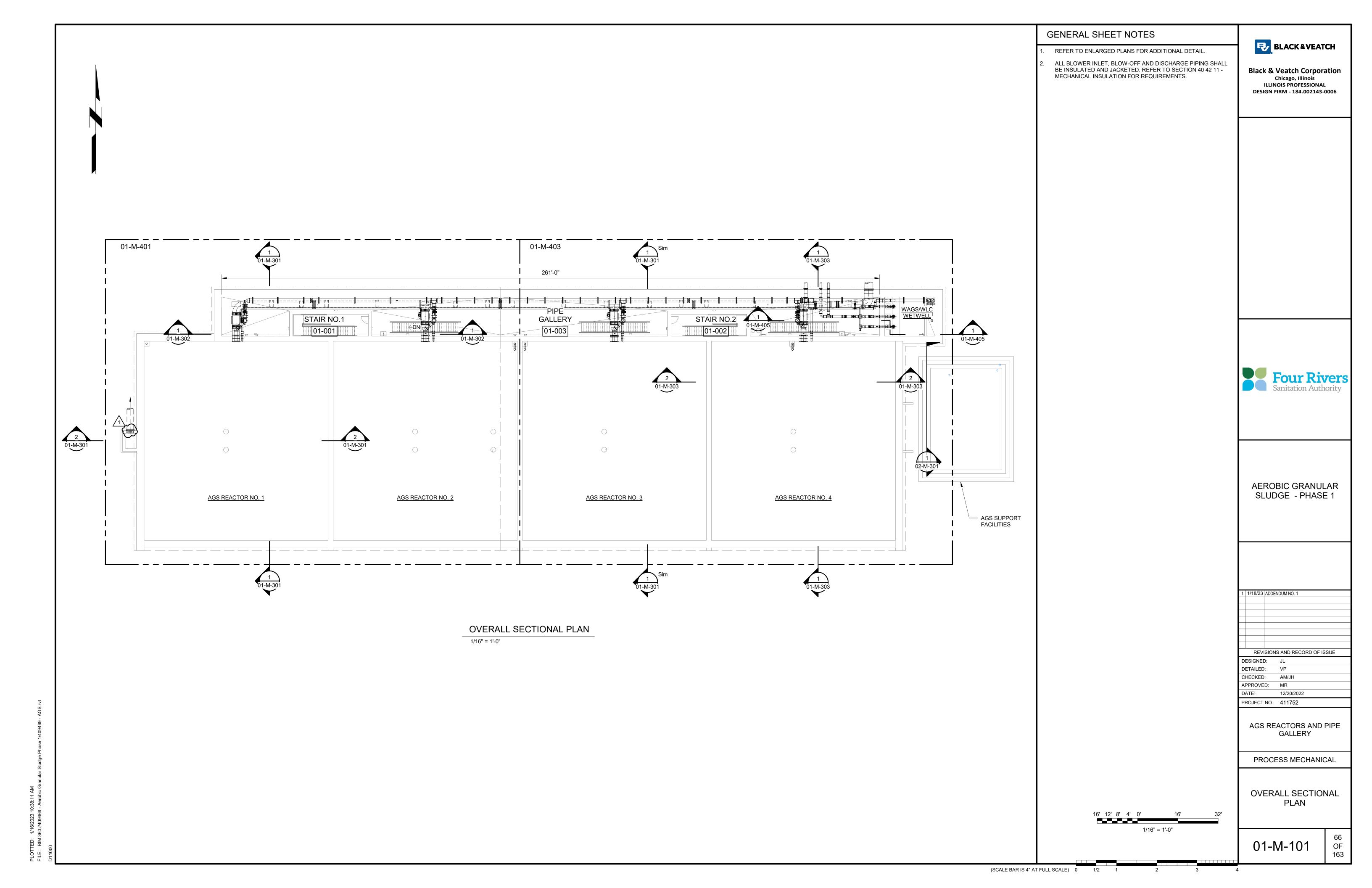
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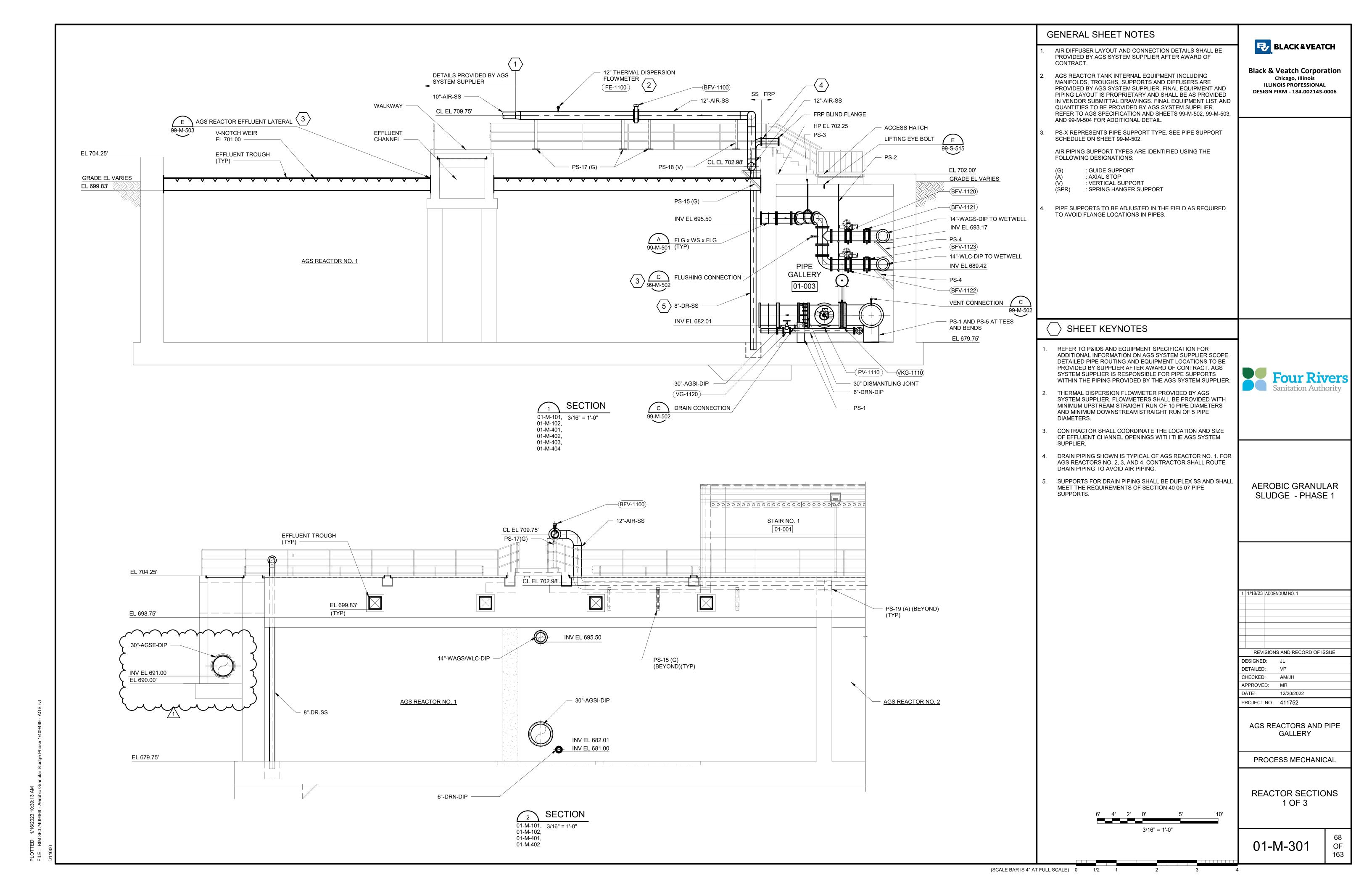


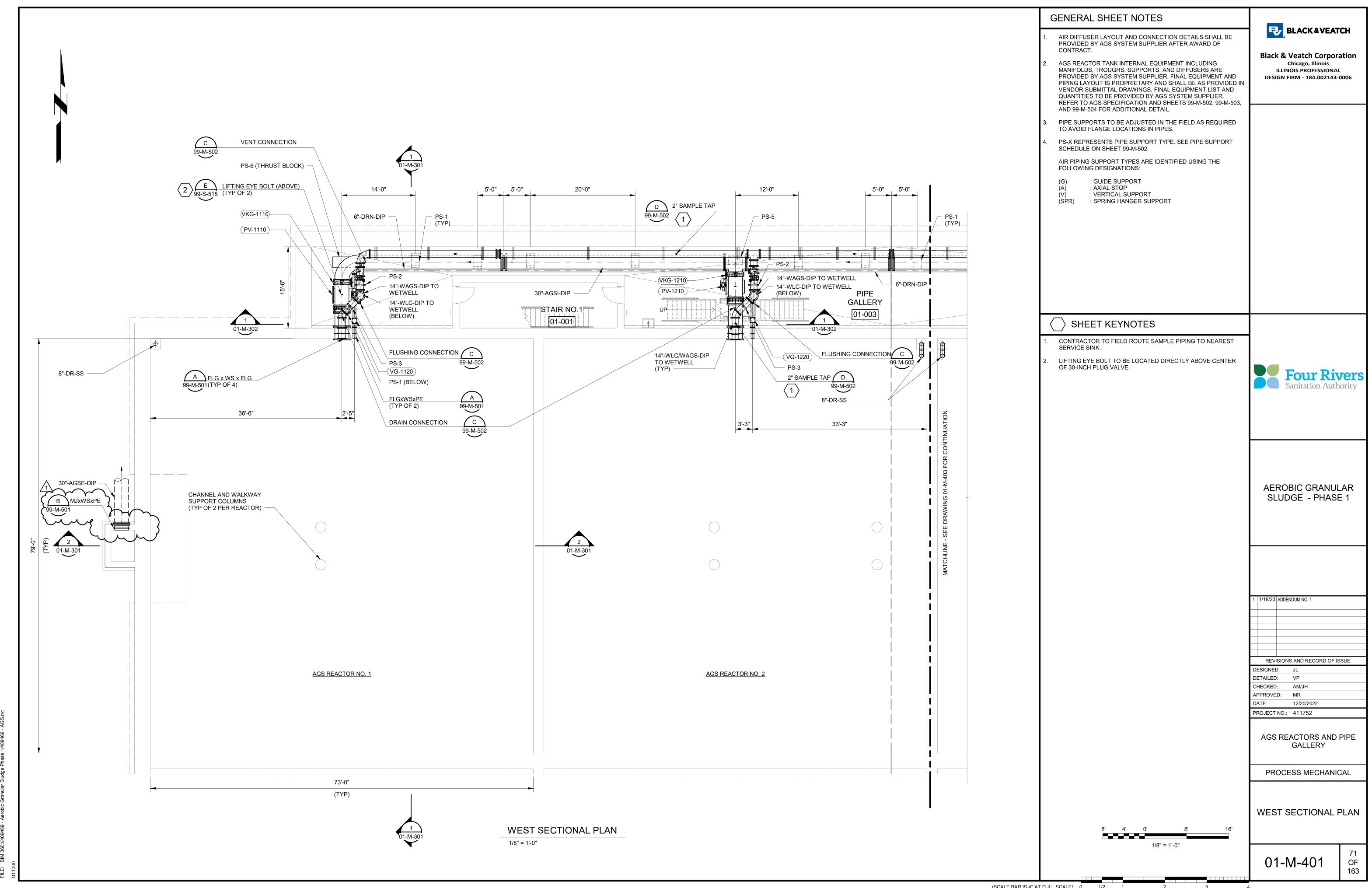




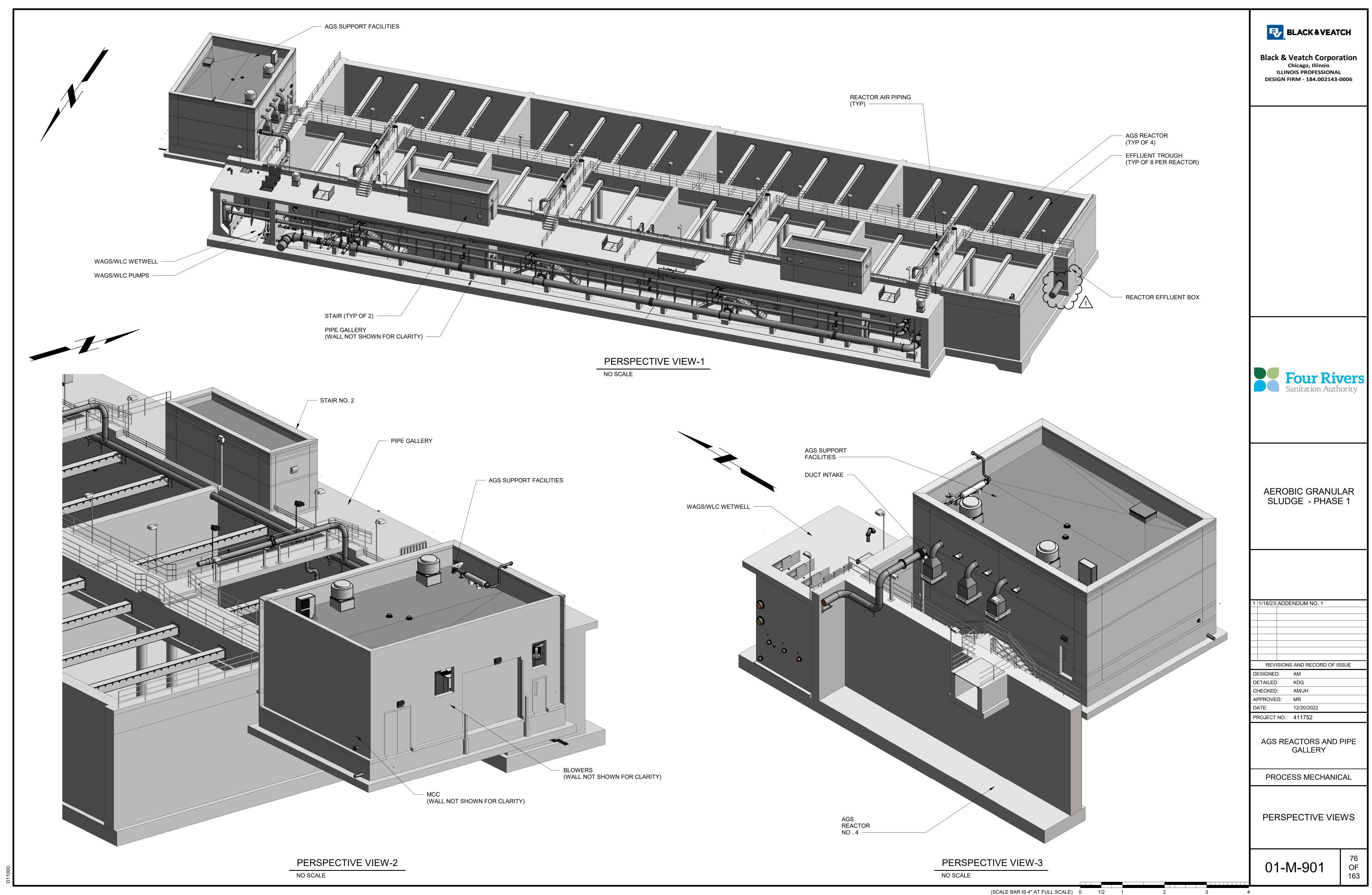


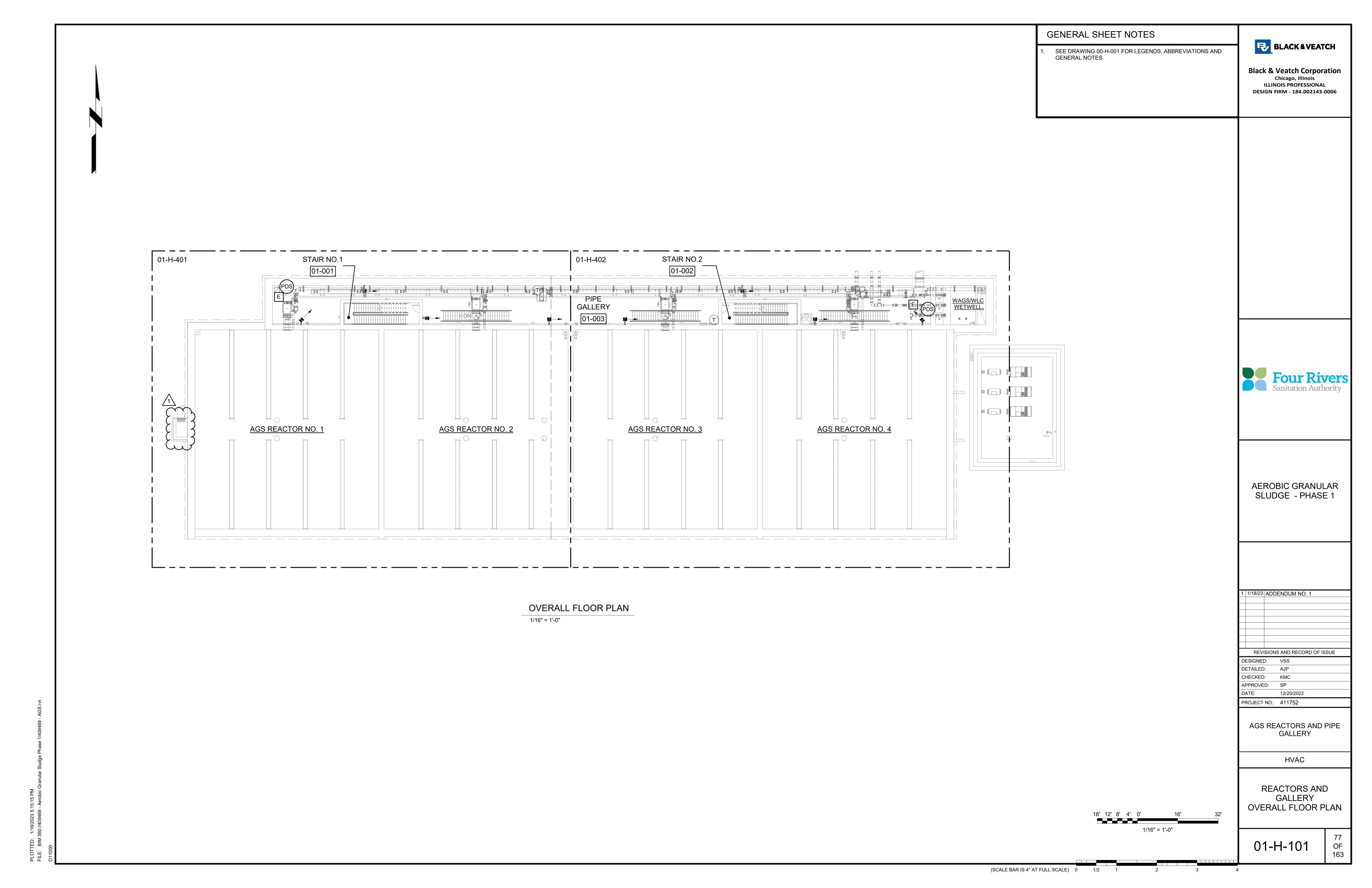


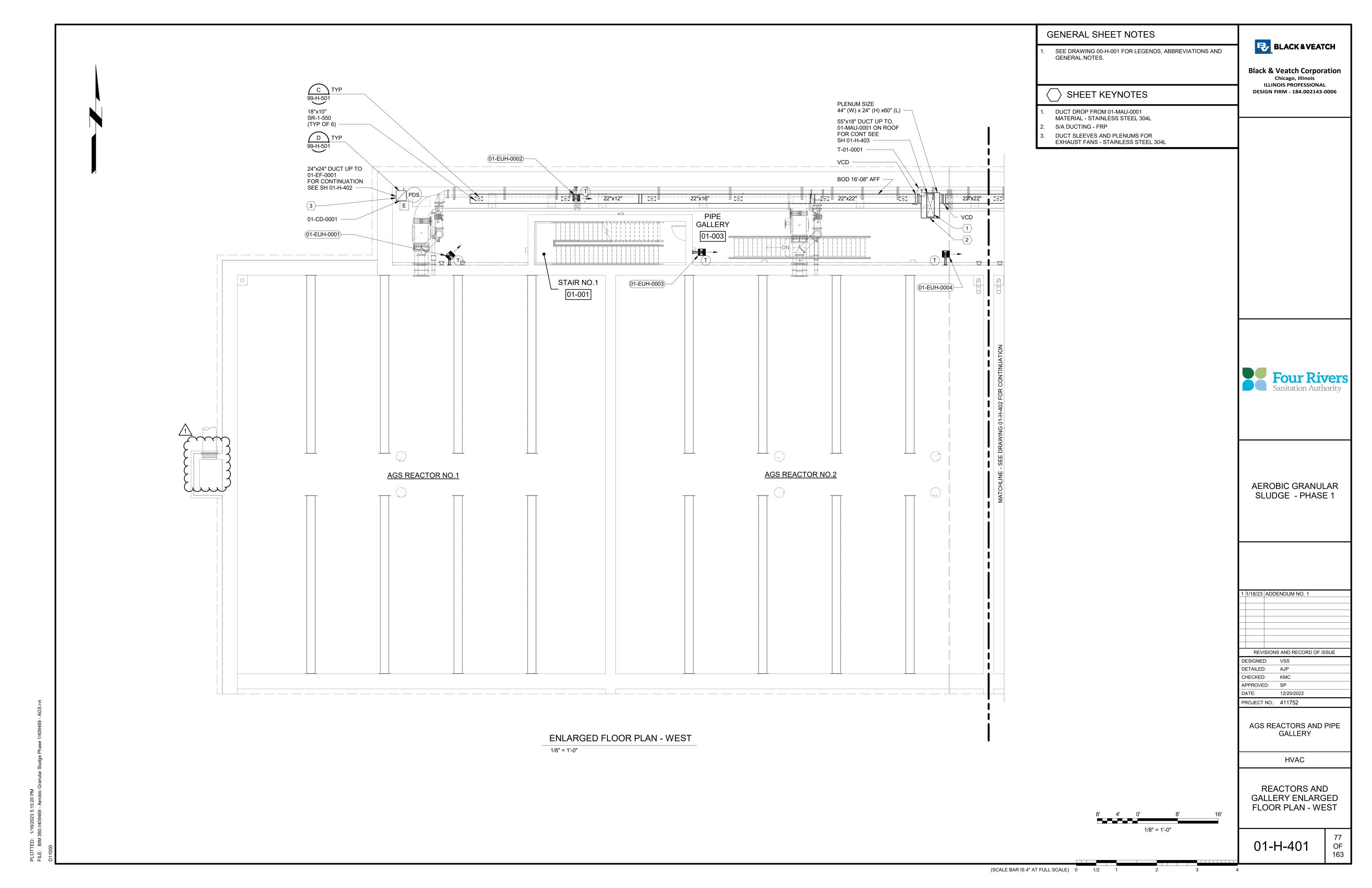


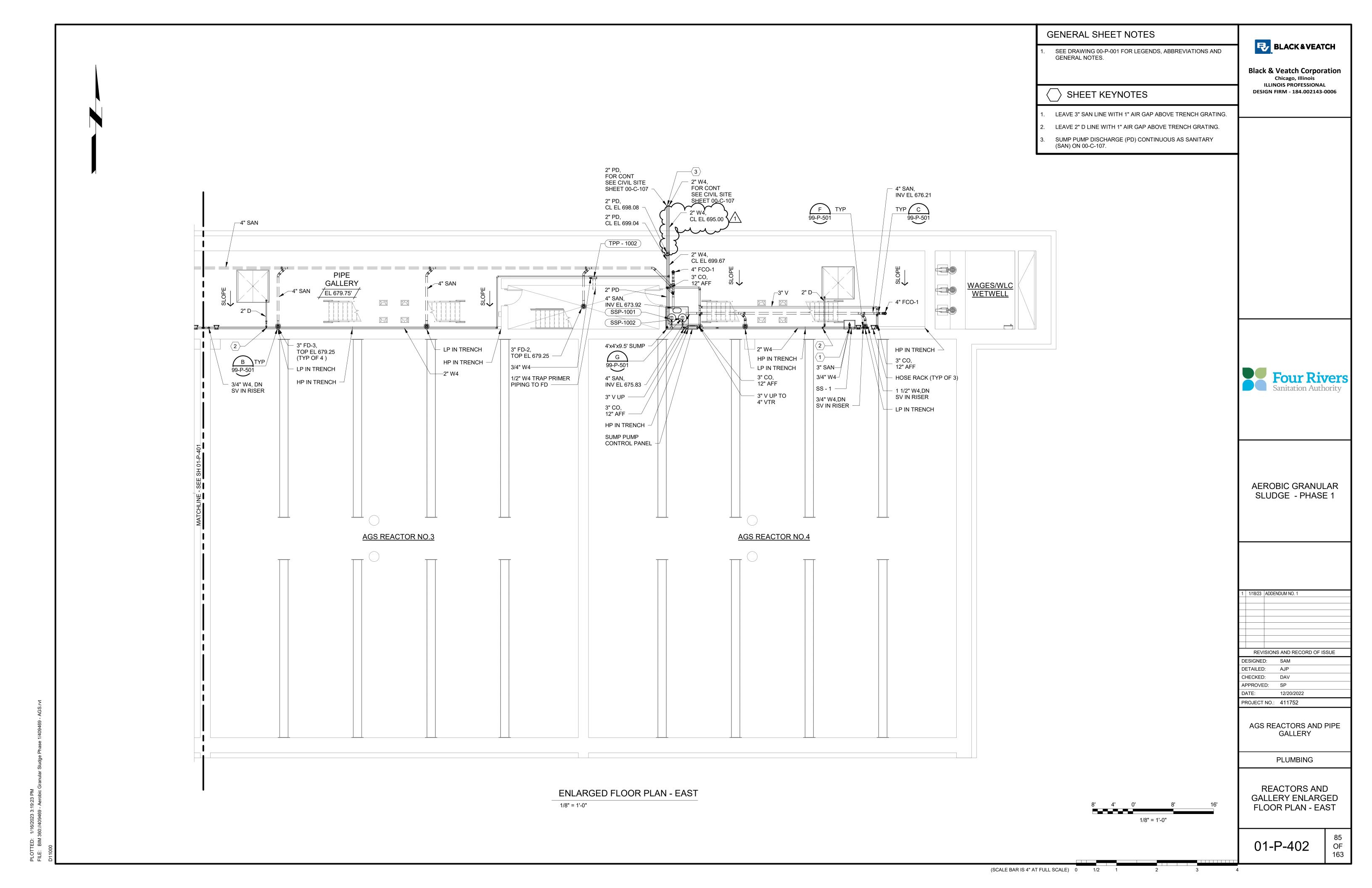


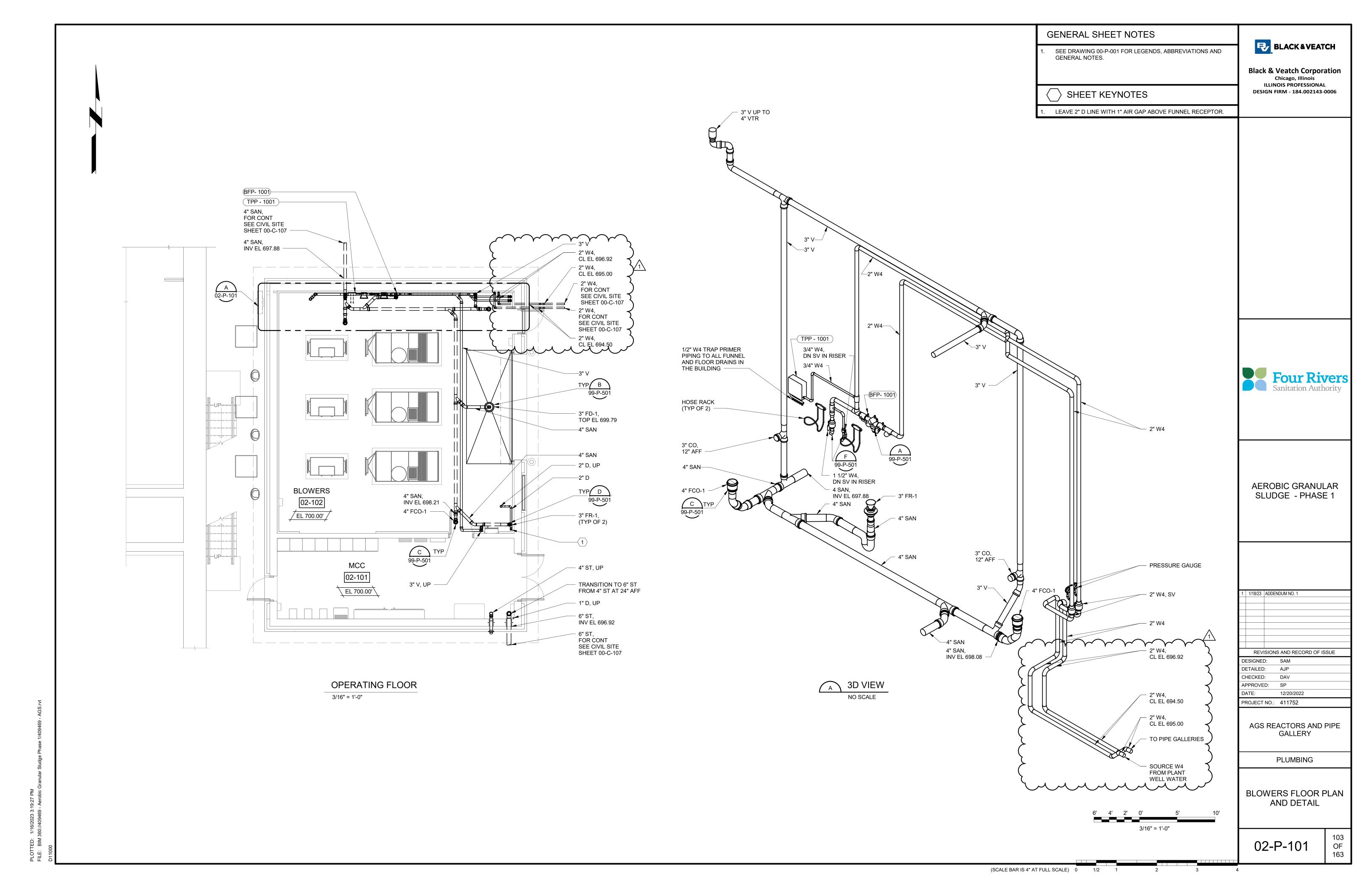
(SCALE BAR IS 4" AT FULL SCALE) 0 1/2

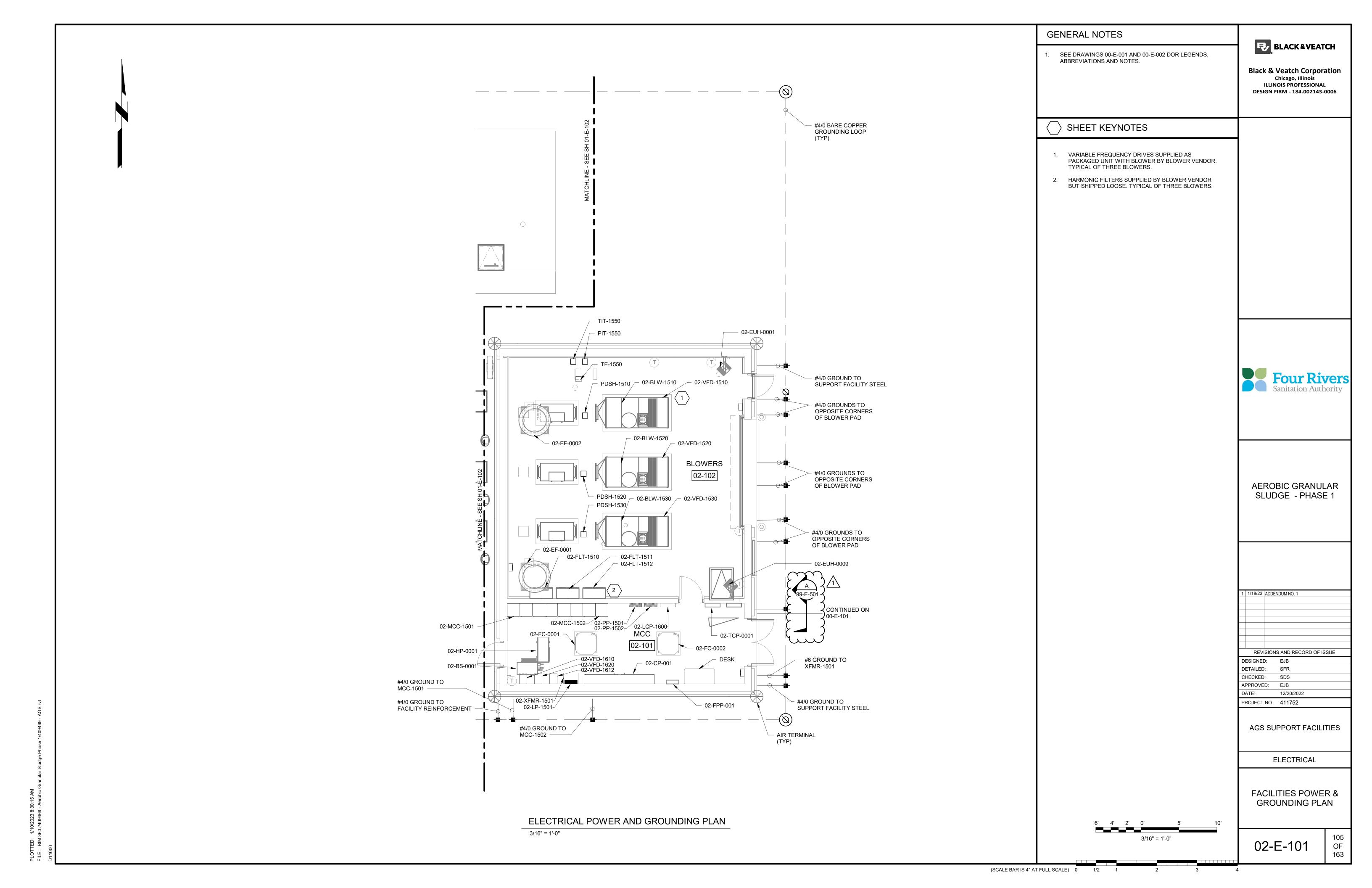


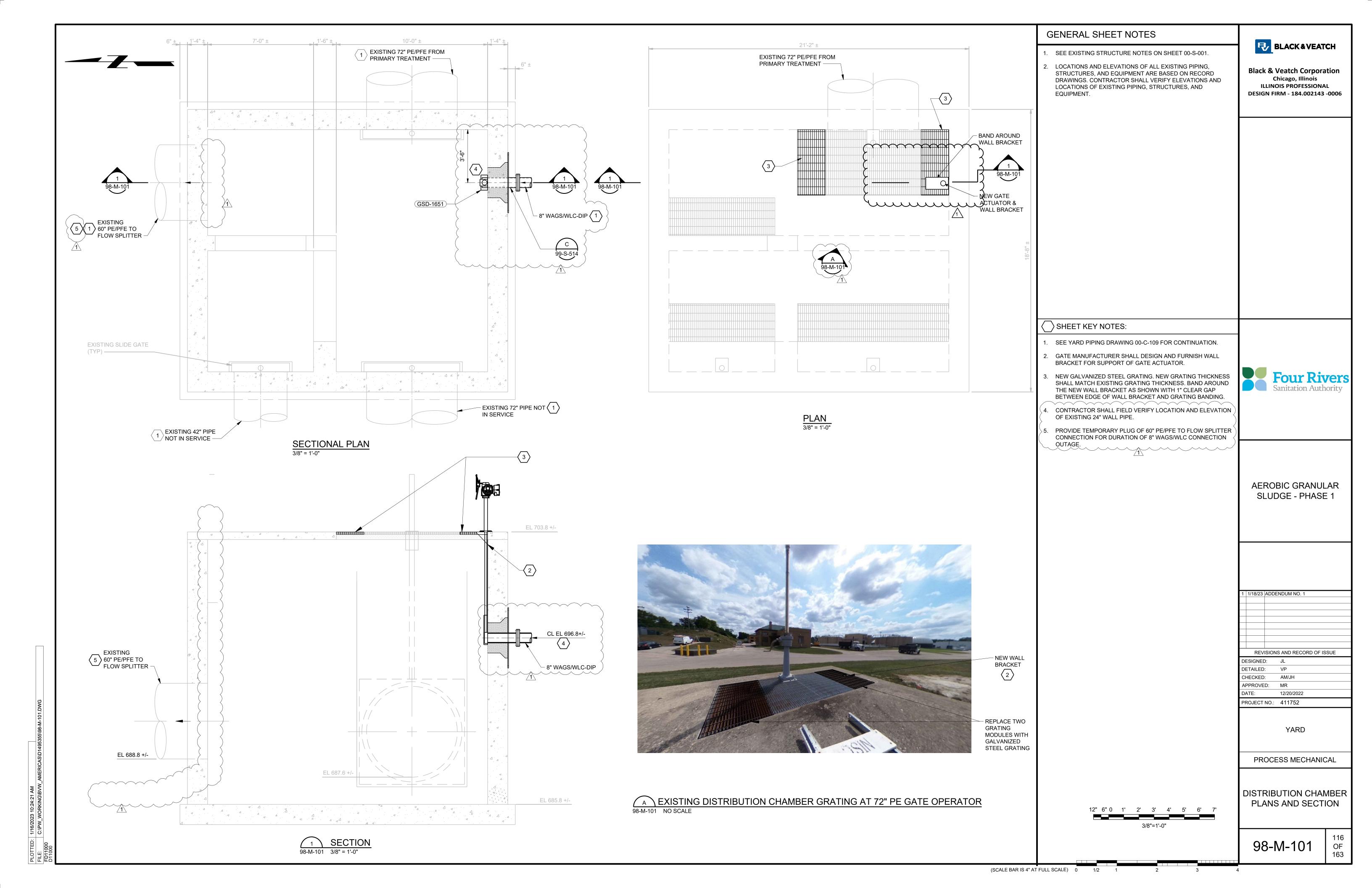


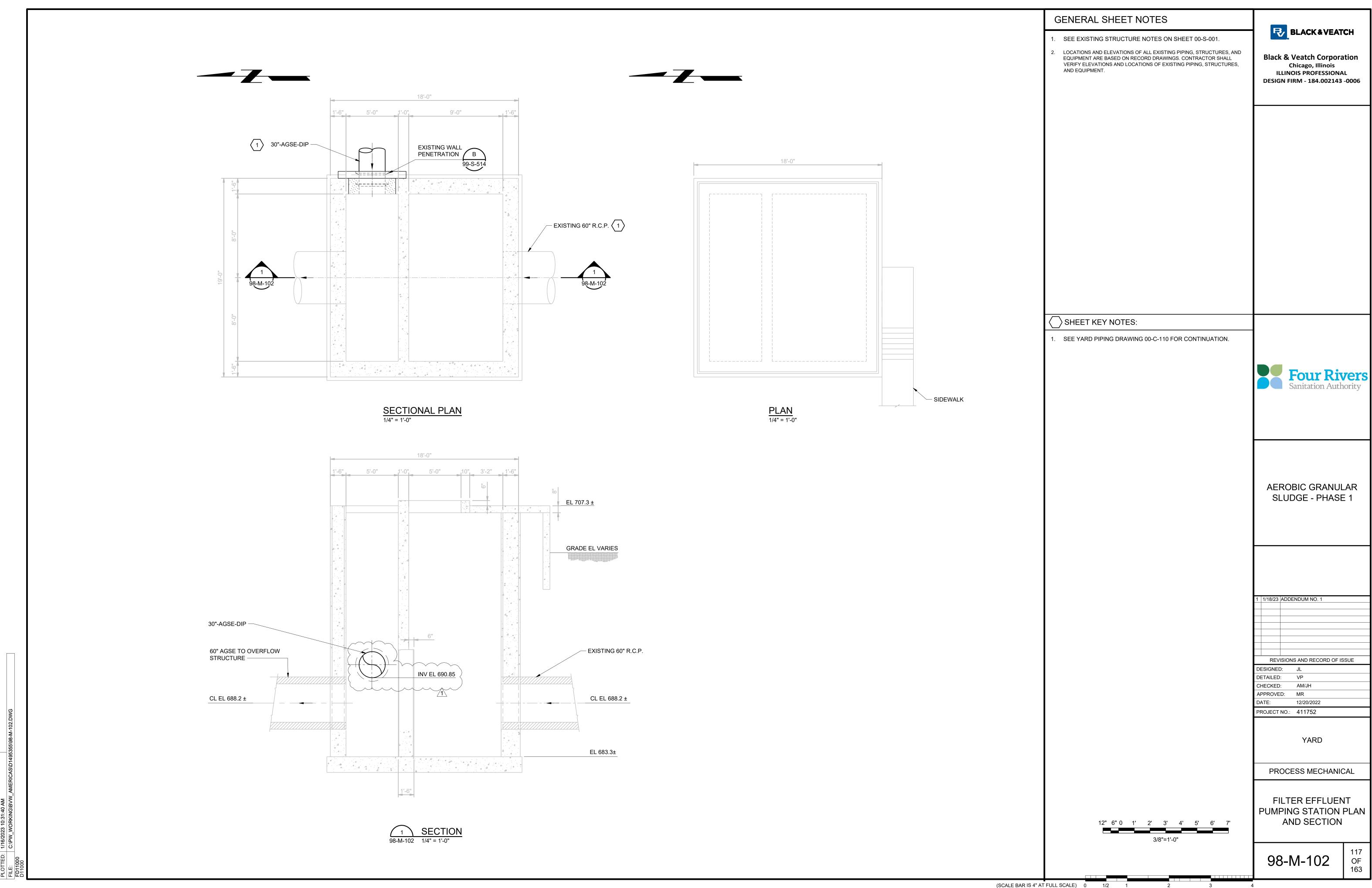


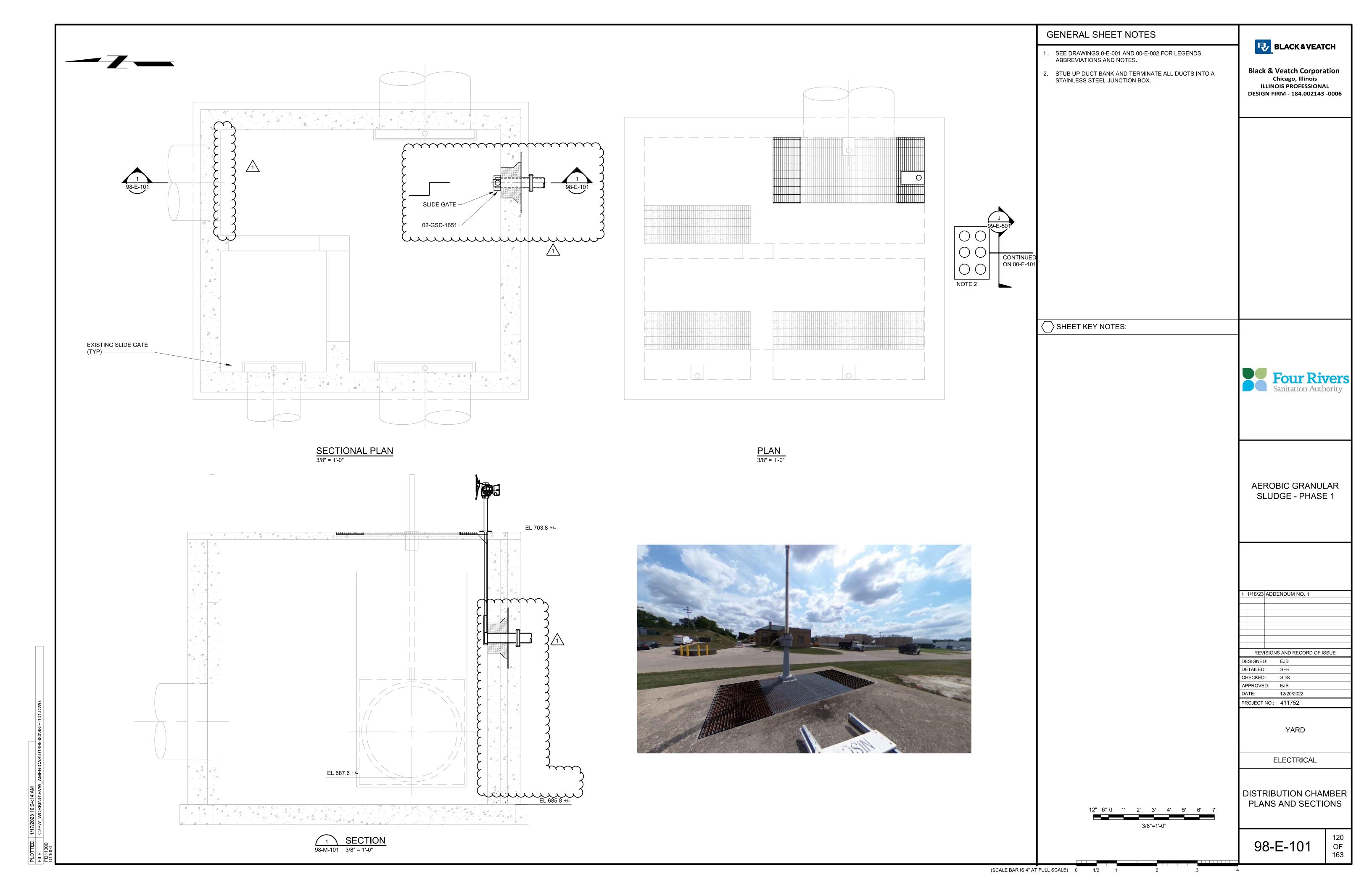


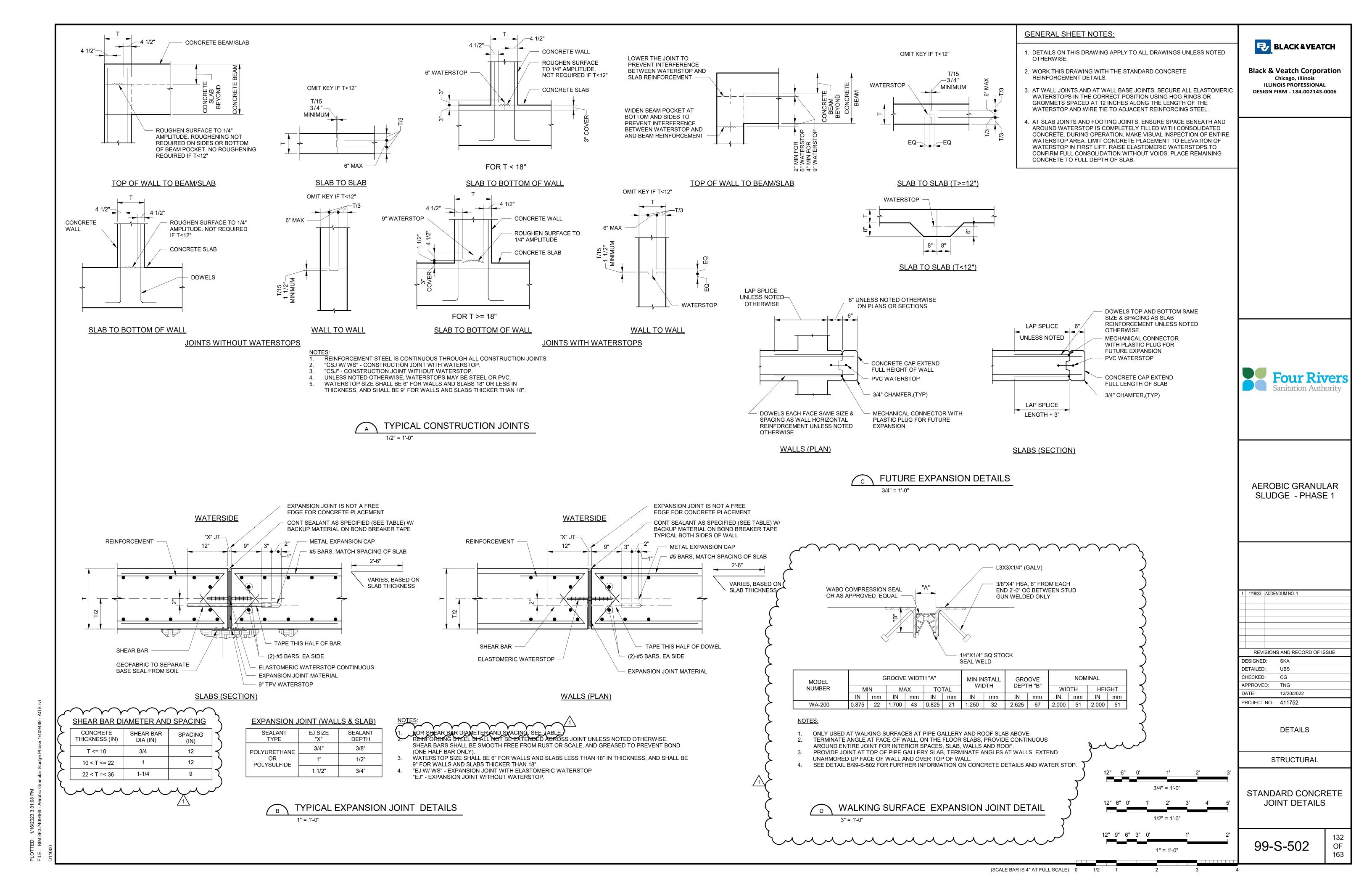


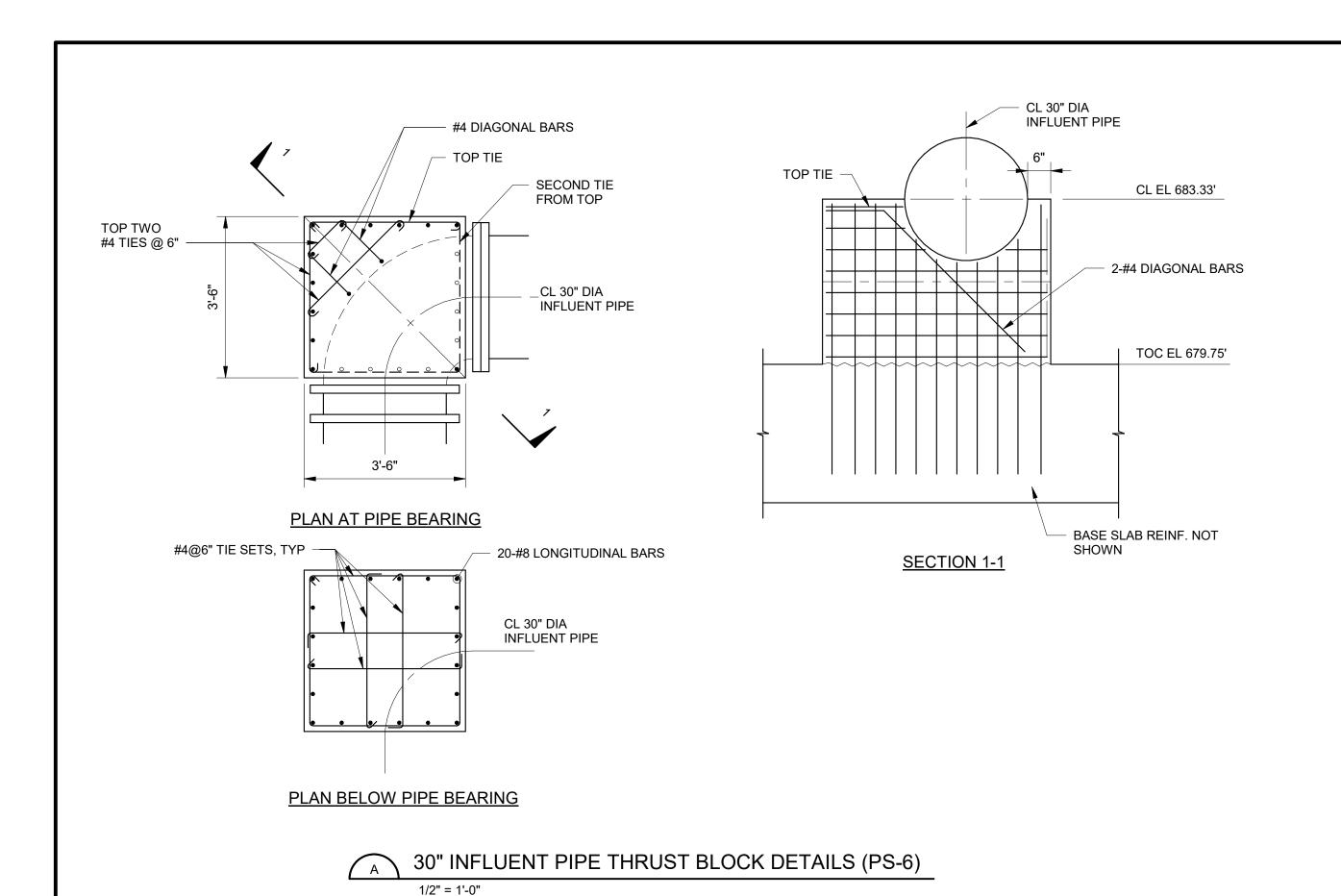


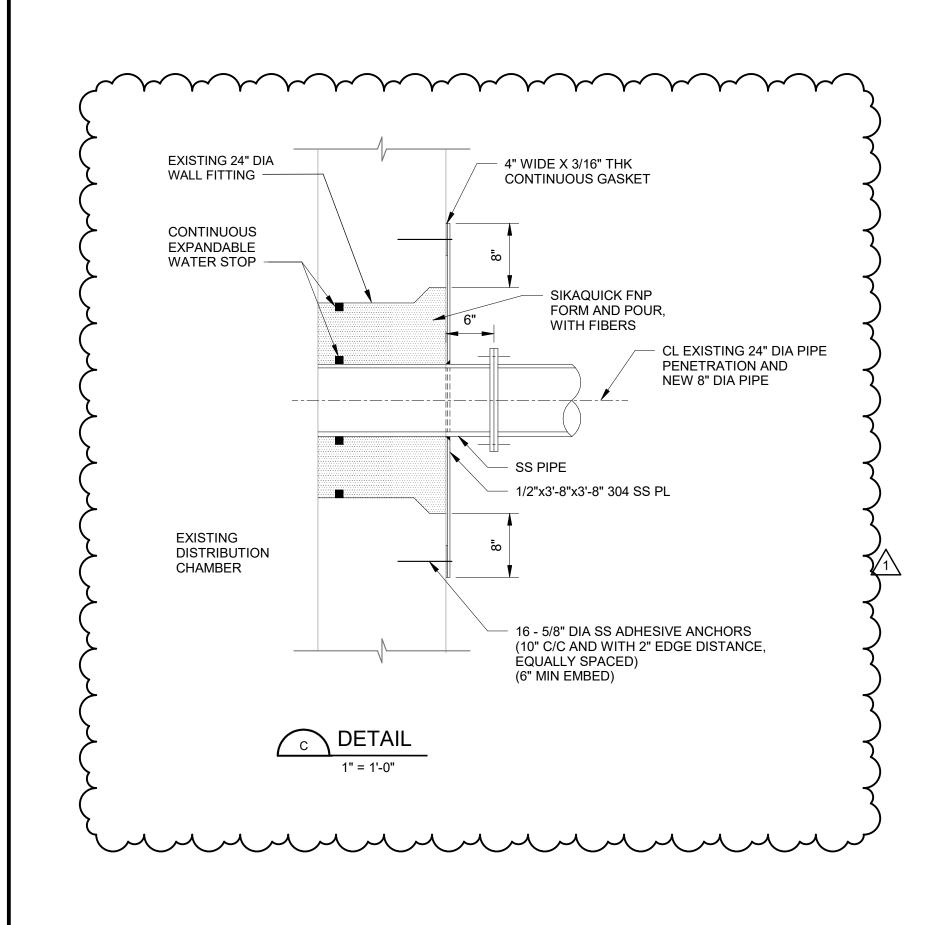


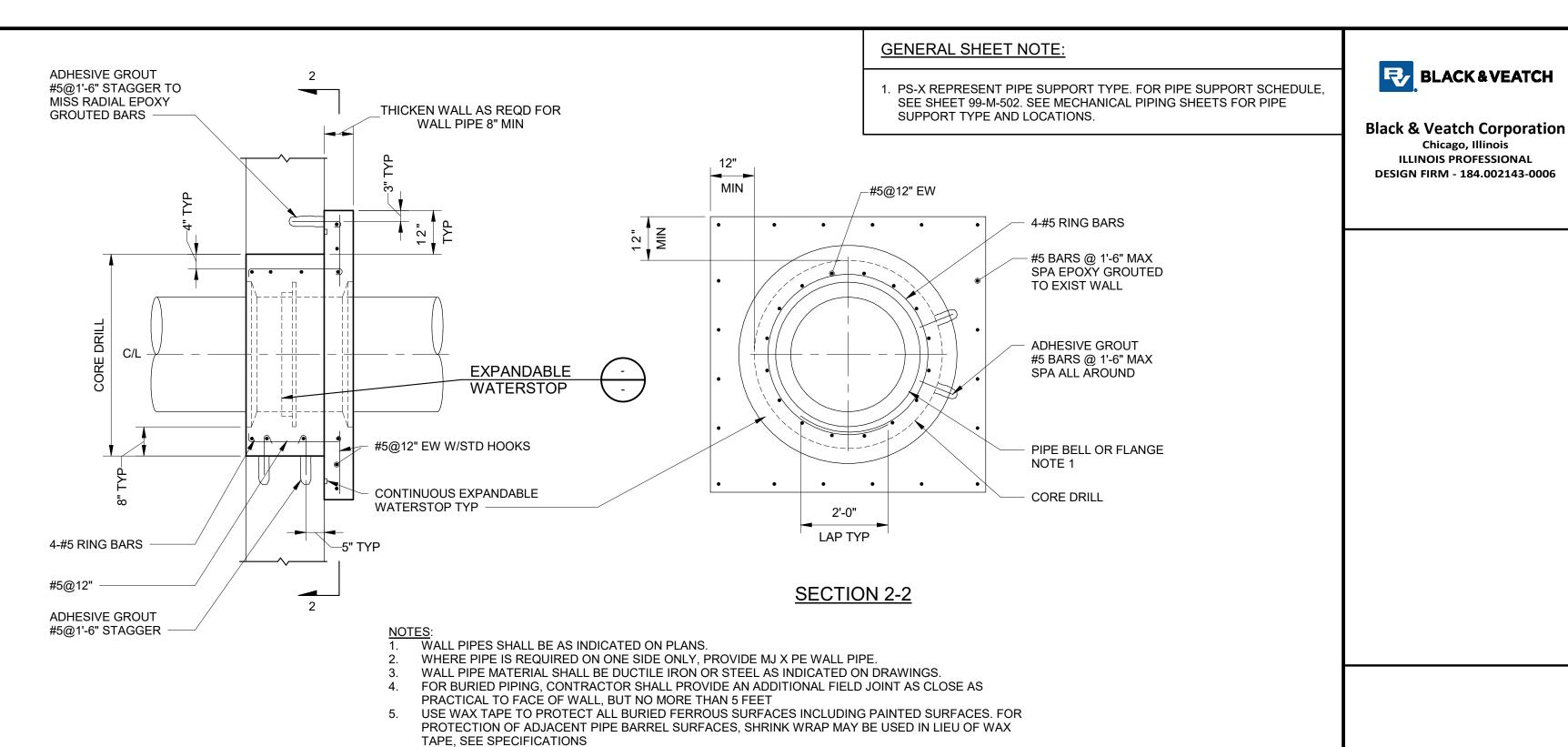












EXISTING WALL PENETRATION

1/2" = 1'-0"

Sanitation Authority

Chicago, Illinois

ILLINOIS PROFESSIONAL

AEROBIC GRANULAR SLUDGE - PHASE 1

REVISIONS AND RECORD OF ISSUE DESIGNED: SKA DETAILED: UBS CHECKED: CG APPROVED: TNG

12/20/2022 PROJECT NO.: 411752

1/18/23 | ADDENDUM NO. 1

STRUCTURAL

DETAILS

PIPE SUPPORT DETAILS 2 OF 4

> OF 163

99-S-514

