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TRANSMITTAL COVER SHEET

DATE: **February 17, 2026**

TO: **ALL CONTRACTORS**

FROM: **DUSTINE TILL**

PROJECT: **ROSCOE ROAD WATER TREATMENT PLANT**
ORANGE BEACH WATER AUTHORITY
GMC PROJECT NO. CMOB230049

RE: **ADDENDUM #3**

PLEASE COMPLETE BELOW AND RETURN IMMEDIATELY.

Ashley Nobles
Email: ashley.nobles@gmcnetwork.com

I, the undersigned, hereby acknowledge receipt of this Addendum.

_____ _____
Authorized Representative of Contractor Date

_____ _____
Company Name Telephone

_____
Contractor's License Number (if applicable)

ADDENDUM NUMBER 3

ROSCOE ROAD WATER TREATMENT PLANT

FOR

ORANGE BEACH WATER AUTHORITY

GMC PROJECT NO. CMOB230049

1. General

1.1 The following revisions are hereby added as Addendum No. 3 to the referenced Project Manual and Plans and shall be considered when preparing bids.

2. Revisions to Project Manual

2.1 Thompson CAT is an approved generator manufacturer.

2.2 A duckbill check valve shall be installed on the end of the 4" D (Chemical Building drain) in the Backwash Waste Sump.

2.3 Warminster Fiberglass is an approved manufacturer for the Fiberglass Washwater Troughs.

2.4 Preload is an approved manufacturer for the Prestressed Concrete Clearwells.

2.5 Peerless is an approved manufacturer for Vertical Turbine Pumps.

2.6 Revision to Specification 46 41 34 – Vertical paddle Wheel Flocculation Equipment

- In Section 2.1.B.1, replace 'hyperbolic' with 'vertical paddle-wheel'.
- In Section 2.1.B.2, replace 'hyperboloid-body' with 'paddle wheel'.
- Remove Section 2.1.I. The support bridge for the flocculators shall be provided by the Contractor.
- In Section 2.1.E.1.d, remove the following: 'A minimum of 4 gusset plates shall be installed at the flange to reinforce the connection.'
- In Section 2.1.E.1.f, remove the following: 'A minimum of 4 gusset plates shall be installed at the flange to reinforce the connection.

2.7 Revision to Specification 46 41 17 – Inline Static Mixers

- Section 2.1.B.1.a.1 – Pipe diameter shall be changed to 24 inch.

2.8 Val-Matic is an approved manufacturer for plug valves, butterfly valves and swing check valves.

2.9 Lutz-Jesco is an approved manufacturer for Peristaltic Metering Pumps.

2.10 MIXTEC is an approved manufacturer for Rapid Mixers.

2.11 LOC Scientific is an approved manufacturer for lab casework.

3. Clarifications

3.1 The last day for submitting questions prior to bid is Thursday, March 12th.

4. Attachments

4.1 Bid Form

4.2 Revised Specifications:

- Specification 08 71 00 – Door Hardware
- Specification 46 41 34 – Vertical Paddle Wheel Flocculation Equipment

4.3 Revised Drawings:

- Sheet A-707 – Partition Types
- Sheet A-721 – Symbol Floor Plans
- Sheet A-722 – Dimension Floor Plans
- Sheet A-771 - Door Schedule, Legend, and Notes
- Sheet A-774 – Lab Plan, Elevations, & Detail
- Sheet A-781 – Finish Legend & Schedule
- Sheet A-782 – Finish Plan
- Sheet C-303 – CIVIL SITE PLAN – ENLARGED YARD PIPING
- Sheet C-902 – CIVIL DETAILS
- Sheet D-202 – INDUCED DRAFT AERATORS & RAPID MIX - SECTION
- Sheet D-502 - FILTRATION – ENLARGED LOWER PLANS
- Sheet D-504 – FILTRATION – SECTIONS
- Sheet D-506 – FILTRATION – SECTIONS
- Sheet D-603 – CLEARWELL SECTIONS
- Sheet D-711 – BACKWASH WASTE SUMP – PLAN
- Sheet D-712 – BACKWASH WASTE PUMP – SECTIONS
- Sheet D-911 – VALVE SCHEDULE
- Sheet D-912 – VALVE SCHEDULE

5. Questions

5.1 **Question: Regarding the pre-stressed clearwells. Plan sheet D-601, the clearwells are noted to have an 85 ft inside diameter. Plan sheet D-603, they're noted as having a 75 ft inside diameter. Please clarify which is correct.**
Answer: The clearwells have an inside diameter of 85'-0".

5.2 **Question: There is a spec section 14 24 00 Machine Room-less Passenger Elevator contained in the body of the specifications. It is not in the table of contents.**
Answer: This section has been added to the table of contents. The revised table of contents is included as an attachment to this addendum.

5.3 **Question: What product is intended to be used for what appears to be a coupling on the 12" SST Air line shown on Drawing D-506, Section E? Is the ½" Air Line shown intended to be tapped off of the coupling? Where does the ½" Air Line go?**
Answer: There should be no coupling as shown on the 12" air line on D-506. The 1/2" line (labeled 1/2" A) can be omitted.

5.4 **Question: What is the intent at the 6" BWW tap into the existing 12" sewer forcemain? Should a 12" tap be made with a 12" valve and 12x6 reducer or should a 6" tap be made with a 6" valve? Keynote 3 on sheet C-301 could be interpreted as requiring a 12" valve and tap.**
Answer: The intent is to make the tap with a 6" valve using a 12" x 6" tapping sleeve.

5.5 **Question: Valve V6400 is called to be Handwheel Actuated in the Valve Schedule on b Drawing D-912. It is shown as Motor Actuated on I-611 and D-621. Which is correct?**
Answer: V6400 is an electric actuated (modulating) valve.

5.6 **Question: Is any kind of bypass pumping required to make the tie-ins on the existing 20" FW line? The tie-ins include the 20" Tank Flow Control Valve and Flowmeter, 30" FW connection and 24" BW connection as shown on C-302.**
Answer: No bypass pumping should be required to make the tie-ins on the existing 20" FW line. There is a valve at the corner of the plant entrance road and Roscoe Road and a valve on the tank side of the tie-ins that can be used to shut off this line to make the tie-ins.

5.7 **Question: Valves V6116, 6126 and 6136 are noted as being 16" Flanged with Lever Actuator or Handwheel in the valve schedule on Drawing D-912. Drawing D-611 and I-611 appear to indicate that they should be 20" Mechanical Joint with 2" Geared Nut actuator. Please confirm that 20" MJ w/ 2" Geared Nut is correct.**
Answer: Valves V6116, V6126 & V6136 should be 20" mechanical joint with 2" geared nut operator.

5.8 **Question: What is the fitting shown on the far left side of the 30" BWW line as shown in Section B/D-502 on Drawing D-504? Is this an MJ Solid Sleeve? It is also shown on Drawing D-501 and D-502.**
Answer: There is no sleeve needed there. That can be omitted.

5.9 **Question: It appears that the foundation for the Rapid Mix Structure and the vertical 24" TW lines are in conflict with each other as shown on Drawings D-201 and D-202. How should this be resolved?**
Answer: The footer can be poured around the pipes. Those sections of the footer can be blocked out around the pipe.

5.10 **Question: Valve V3172 is listed as 6" in the Valve Schedule on Drawing D-911 and as shown on I-312, however on sheet D-301, it is shown as 8". Please confirm that valve V3172 should be 8". There does not appear to be enough room to move it on the other side of the reducer as shown on Drawing D-301.**
Answer: V3172 is an 8" valve.

5.11 **Question: Referencing Spec Section 31 20 00 Earth Moving paragraph 3.22. After reading this we are un-clear. Will excess excavated material be allowed to be "wasted" on the project site?**
Answer: Excess material shall not be wasted onsite.

5.12 **Question: In the Specification Table of Contents in Division 10 there is a section 10 14 00 Signage (This is not contained the body of the specs). There is also a section 10 14 23 Signs that is in the body of the specs. We just want to make sure we are missing anything.**
Answer: Section 10 14 00 shall be omitted.

5.13 **Question: Referencing plan sheet C-101. There are two chain link slide gates called out. One to the new plant and one to the existing water tower. Sheet E-103 shows power to the plant entrance gate. We assume the one to the new plant is the only slide gate with an electric operator, please confirm.**
Answer: Yes, only the gate to the plant has an electric operator.

5.14 **Question: Referencing plan sheet C-902. There are two details for concrete sidewalk. Det J and Detail K. One shows the sidewalk to be 8" thick and the other 4". Which is correct?**
Answer: Detail K shall be used for concrete sidewalks.

5.15 **Question: Drawing C-303 shows an underground 4" PSW line entering the building on the East side. Where does this line go inside the building?**
Answer: The 4" PSW branch going into the building on the east side shall be removed. It is not needed.

5.16 **Question: See sheet C-303, what material should the 4" SS piping be from the building to the Grinder PS?**
Answer: The 4" SS piping from the building to the Grinder PS shall be Schedule 80 PVC.

5.17 **Question: Sheet C-303 shows a small diameter branch off of the 6" PSW line at the Southeast corner of the Maintenance Building. Where does this small diameter PSW line go under/inside the Maintenance Building?**
Answer: The small diameter branch off of the 6" PSW line at the southeast corner of the Maintenance Building shall be deleted. There is no water line inside the building.

5.18 **Question: On sheet C-303, a branch off of the 6" PSW loop goes to the Grinder PS. What size is this line and how does it terminate? Does it go to a yard hydrant or tie into the Grinder PS?**
Answer: This line was the discharge from the sump pump in the influent meter vault. This line has been revised to tie into the discharge from the pipe gallery sump pump which is shown on the revised C-303 that is included as an attachment to this addendum.

5.19 **Question: Is there any significance to the step in size shown on the 24" RW lines as shown on sheet D-202? The step locations are not consistent on each side of the Rapid Mix. Is this perhaps just a drafting error?**
Answer: This is just a drafting error. There is no step in the pipe at these locations.

5.20 **Question: The two wall pipes shown on the right side of section B/D-301 on sheet D-303 are called to follow Detail C/C-901 which is FLG x WC x FLG. Should FLG x WC x Plain End wall pipes be used instead? This would eliminate the cost of 8 flanges.**
Answer: Yes, a FLG x WC x PE wall pipe can be used at these locations.

5.21 **Question: Please confirm that the reference to Keynote 11 on 5C/D-501 on sheet D-502 should actually reference Keynote 21.**
Answer: Yes, this should reference Keynote 21.

5.22 **Question: Elevation H/D-503 on sheet D-507 calls for Pipe Hanger Detail 15/C which is a 2 support rod hanger. Table A on sheet D-902 does not provide the rod size. Please provide the rod size for these hangers.**
Answer: Rod size shall be 1/2".

5.23 **Question: The Valve Schedule lists valves V5715, V5725 and V5750 as 6". Please confirm that these valves should be 10" as shown on sheet D-871.**
Answer: Yes, valves V5715, V5725 & V5750 are 10".

5.24 **Question: Please confirm the 8" Drain Line, shown on sheet D-506, is made from Sch. 80 PVC pipe and fittings. The Pipe Schedule calls for exposed 'D' lines 4" and larger to be Ductile Iron but this particular area is drawn as if it's PVC.**
Answer: Yes, the 8" Drain line suspended from the pipe gallery ceiling shall be SCH 80 PVC.

5.25 **Question: Please confirm valves V7012 and V7022 should be provided with flanged ends. They are shown on sheet D-711 in a flanged system but are called MJ in the Valve Schedule.**
Answer: Yes, Valves V7012 and V7022 should be flanged valves.

5.26 **Question: Please confirm valve V7001, shown on sheet D-711, should be 4" verses the 6" designation in the Valve Schedule. Valve is shown on sheet D-711.**
Answer: Yes, Valve V7001 should be 4".

5.27 **Question: Please confirm valve V7002 should be added to the Valve Schedule as a 6" flanged plug valve with handwheel. Valve is shown on sheet D-711.**
Answer: V7002 has been added to the Valve Schedule.

5.28 **Question: Please confirm that the 4" trunk of the buried drain line shown on sheet D-831 routes to the Backwash Waste Sump and is Sch. 80 PVC and not Ductile Iron.**
Answer: The 4" drain line from the Chemical Building goes to the Backwash Waste Sump. The line can be SCH 80 PVC.

5.29 **Question: Referencing plan sheet A-771. Under the Door General Notes number 5.C. The note is regarding Hardware sets with a designation of "E" requires wiring coordination for access devices. We do not see where this is addressed on the electrical drawings. Please clarify.**
Answer: Electric access devises are not required. The Hardware Sets with designation of "E" are revised to provide a fully functional Simplex LP1020 Exit Trim Mechanical Pushbutton Lock keypad with key override that does not require electrical wiring. Revised Specification Section 08 71 00 – Door Hardware and revised Drawing A-771 are included as an attachment to this addendum.

5.30 **Question: There appears to be a chemical trench with grating in the First Floor Chemical Area on A-721 that does not appear to be reflected in the Structural Slab on S-722. Please confirm and provide structural detail for the Trench.**
Answer: There is no trough in the floor in the hypo area. This was inadvertently left on the architectural drawings. There is a floor drain in this area.

5.31 **Question: Are the 2" Drains shown in the Chemical Area on Drawing D-831 intended to drain from finish floor elevation or bottom of chemical trench?**
Answer: They drain from the finish floor elevation. There is no trench in this area.

5.32 **Question: The Concrete Curb around the Chemical Area on A-721 appears to note the height as 2'-6", the same curb on Drawing S-722 shows 0'-4". Please clarify the width and curb height on the four sides of this area.**
Answer: The concrete curb around the Hypo area in the Chemical Building shall be 4" H x 6" W.

5.33 **Question: Are the Stairs/Landings at Doors 113A, 109B and 110D on Drawings A-721 and S-723 intended to be Steel Pan Stairs/Framed Platforms with Concrete Fill or Fabricated Aluminum Assemblies?**
Answer: These are intended to be fabricated aluminum assemblies.

5.34 **Question: The Room Finish Schedule on Drawing A-781 lists "EF-1" and "EB-1" for the Epoxy Flooring and Epoxy Base in a majority of the Rooms. Both "EF-1" and "EB-1" are specified as Stonhard products on the Finish Legend. There is also a Specification Section 09 96 00-Slurry Epoxy Flooring based on Tnemec products. Please clarify where each of the products is to be applied.**
Answer: EF-1 and EB-1 has been revised from a Stonhard Stonshield product to a Tnemac Stratshield epoxy flooring or approved equal. See cloud on sheet A-781- FINISH LEGEND, & NOTES and sheet A-782-Finish Plan. EF-2 and EB-2 has been added and will be installed in the Chemical Storage Building. EF-2 and EB-2 will be Tnemec Chemical Resistance Coating for Secondary Containment or approved equal.

5.35 **Question: Doors 209A, 210A, 210B and 211A do not appear on the door schedule. Please add an include door size, type, material, glass if required, fire rating and hardware notes.**
Answer: Doors 209A, 210A, 210B and 211A have been added to Sheet A-771 and clouded. Revised Sheet A-771 – Door Schedule, Legend, & Notes has been included as an attachment of this addendum.

5.36 **Question: Regarding the chain link fencing detail, Sheet C-905 it appears to show a top and bottom rail. The specifications talk about top and bottom tension wire. Can you clarify if a top and bottom rail is required, top and bottom tension wires or top rail and bottom tension wire?**
Answer: The chain link fence shall have a top rail and bottom tension wire.

5.37 **Question: Referencing plan sheet C-101 showing the chain link fence. Do all gates get motorized operators or just the slide gates?**
Answer: Just the slide gate at the main plant entrance is to have motorized operator.

5.38 **Question: In the Specification Table of Contents in Division 10 there is a section 10 44 16 Fire Extinguishers. This is not contained the body of the specs. Please provide.**
Answer: Section 10 44 16 – Fire Extinguishers is not needed. Fire extinguishers are specified in Section 10 44 13 – Fire Protection Cabinets. Section 10 44 16 will be removed from the table of contents.

5.39 **Question: The gauge of the wall panels on the Maintenance Building is not listed. Please provide.**
Answer: The wall panels shall be 26 gauge.

5.40 **Question: The geotech report never specifically refers to the clearwells as being of AWWA D110 Type II design. Please review our Geotechnical Considerations paper for a description of our standard foundation system and subgrade preparation criteria (as described in ACI 372R) and confirm that the recommendations of the Report are applicable for the proposed tank.**
Answer: These recommendations are acceptable.

5.41 **Question: Please note that the Geotechnical Report does not reference the dimensions of the clearwell. Please confirm that the recommendations of the Report are still applicable for the proposed tank.**
Answer: Yes, the recommendations of the Geotech Report are applicable for the proposed tanks.

5.42 **Question: Please note that borings documented in the Report are not within the tank footprint. Please confirm that the recommendations of the Report are applicable for the proposed tank.**
Answer: Yes, they are.

5.43 **Question: Please provide the design groundwater / flood elevation. We would suggest that the tank bear above this elevation, if possible. If the tank will not bear above the design groundwater elevation, please provide recommendations for resisting hydrostatic uplift forces.**
Answer: The groundwater elevations are indicated in the geotechnical report and boring logs.

5.44 **Question: Spec Section 08 33 10-2.2 calls for Fire-Rated Counter Doors. Does this apply to either overhead doors in the main building or the two at the Maintenance Building? The door schedule is unclear.**
Answer: The overhead roll up doors are not fire rated.

5.45 **Question: Spec Section 08 33 10-2.4 calls for Electric Door Operators. Does this apply to either overhead doors in the main building or the two at the Maintenance Building? The door schedule is unclear.**
Answer: All overhead roll-up doors shall have manual operators.

5.46 **Question: At the Induced Draft Aerators and Rapid Mix structures on S-201, per Keynotes 2 and 3, the Support Beams are 316SS. Please confirm the framing for the Stair assembly to the Flocculation Basin is also 316SS.**
Answer: The stair assembly to the Flocculation Basin from the Rapid Mix shall be aluminum.

5.47 **Question: Is the Stair Tower extending from EL. 74.50' at the Rapid Mix to the ground elevation to be 316SS or Aluminum?**
Answer: Aluminum

5.48 **Question: Confirm the Grating, Embed Angle and Handrail on S-201 is aluminum.**
Answer: Yes, it is aluminum.

5.49 **Question: Confirm the grating over the 316SS support beams at the Flocculation Basin on S-302 is aluminum.**
Answer: Yes, it is aluminum.

5.50 **Question: Is aluminum an acceptable alternative to painted steel for the exterior stair and stairs at Doors 113A, 109B and 110D?**
Answer: Yes, aluminum is preferred.

5.51 **Question: Is aluminum picket rail an acceptable alternative to painted steel handrail?**
Answer: Please provide painted steel handrail for the interior stairs in the main building.

5.52 **Question: Referencing plan sheets S-723 and A-721, the wall on the second floor of the administration building. It is depicted as masonry on the structural drawings. There is no cut through it. It is called out as concrete on the Architectural drawings. Which is correct? If it is to be concrete, we need reinforcing details and thickness.**
Answer: This wall is intended to be 8" CMU. See Section Q/S-727. The vertical bars should be drilled and epoxied into the top slab of the pipe gallery, 6" minimum.

5.53 **Question: Please clarify if the Bar Joists and underside of the Metal Decking in concealed areas will require a Field Applied Coating per Section 09 9000 or if the coating only applies to the area directly above the Fire Riser Room 103 with 'EXP-1' designation on Drawing A-726.**
Answer: On Sheet A-726 – Reflected Ceiling Plan, revise Fire Riser Room 103 ceiling to FR-2, a 1-hour fire rated ceiling assembly in lieu of EXP-1. Yes, areas identified as FR-2 will require the 1-hour fire rated Spray-Applied Fire Resistive Materials.

5.54 **Question: Drawing A-774 and details on A-775 show the lab casework as plastic laminate material. We assume this is incorrect and that A-781 "Finish Schedule" takes precedence where it calls for Lab Casework to be per spec (12 35 50 and 12 35 53.13), which is steel casework and epoxy tops. Please confirm.**
Answer: Lab casework should be steel casework and epoxy countertop per specs. The millwork sections have been removed because these will not be millwork, but will be lab casework. See revised Sheet A-774 where revisions are clouded.

5.55 **Question: The hardware set numbers on the door schedule do not match the hardware set numbers in the specs. Please advise which are correct.**
Answer: The Door Hardware specification has been revised to match the drawings.

5.56 **Question: Openings 102B & 202A have the head/jamb details 15/16 that says it is a cased opening but they appear as frames with doors on the plans as well as having hardware sets. Is this correct or do they have another head/jamb detail?**
Answer: Fire Rated Doors 102B & 202A shall refer to the following:

- Head Detail: 10/A-772
- Jamb Detail: 11/A-772
- Sill Detail: 12/A-772

- All fire rated doors shall be provided with smoke seals and fire rated hardware. See Sheet A-772-SF/DOOR, HEAD, JAMB & SILL DETAIL and see the attached revised and clouded Sheet A-771 DOOR SCHEDULE, LEGEND, & NOTES included as an attachment to this addendum.

5.57 **Question: Opening 103A appears in hardware sets 3, 4, and E03. Which is the correct set?**
Answer: Fire Riser Room 103A is in Hardware Set E03. See the revised Door Hardware specification for hardware sets.

5.58 **Question: Openings 102A, 11B, 113A, 202A, 208A appear on the door schedule and floor plan but do not appear in the issued hardware specs. Please advise which hardware sets these doors utilize.**
Answer: See the revised Specification 08 71 00 – Door Hardware.

- Door 102A – Set #E04
- Door 111B – Set #13
  - Overhead door hardware is to be provided with overhead door system.
- Door 113A – Set #E02
- Door 202A – Set #01
- Door 208A – Set #05

5.59 **Question: The QED Switchboards are available in NEMA 1 or NEMA 3R, not NEMA 12 as indicated on schedules. Is NEMA 1 acceptable?**
Answer: NEMA 1 is acceptable.

5.60 **Question: The MCC is available in NEMA 1 or NEMA 12. Is NEMA 1 acceptable?**
Answer: NEMA 1 is acceptable.

5.61 **Question: Spec section 13 31 22 Pre-engineered canopy (Bulk Chemical Storage) paragraph 2.5.B calls for 24" wide, 24 gauge roof panel with 3-coat Kynar coating. Spec section 13 34 19 Pre-engineered Metal Building System (Maintenance Building) paragraph 2.5A calls for a 16" wide, 24 gauge, 2-coat Kynar coating. Due to the size of these buildings, both need to utilize the same roof panel. it is most economical to use 24" wide, 24 gauge, 2-coat Kynar for both buildings and be the same color. Is this acceptable? Anything other will require purchasing excess material to meet minimum runs for roof panels resulting in increased cost.**
Answer: Yes, the 24" wide, 24 gauge, 2-coat Kynar roof panels shall be used for both.

5.62 **Question: Drawing A-722 shows several wall types, OG2/6", OG2/4" and OG1/4". These types are not shown in the details on A-707. What does the description mean?**
Answer: Refer to PARTITION KEY on Sheet A-707 for provided partition breakdowns. "0" = zero fire rating, "G" = gyp board, "2" = gypsum board on 2 sides, "1" = gypsum board on 1 side, "6" = 6" metal stud, "4" = 4" metal stud.

1. 0G2/6": 0 (zero fire rating), G2 (gypsum board on 2 sides), 6" (on 6" metal studs)
2. 0G2/4": 0 (zero fire rating), G2 (gypsum board on 2 sides), 4" (on 4" metal studs)
3. 0G1/4" (Same as 0G1D): 0 (zero fire rating), G1 (gypsum board on 1 side), 4" (on 4" metal studs).

5.63 **Question: Is the building a level D or E, overall Hurricane rating?**
Answer: Level E

5.64 **Question: General Note 10.01 on A-703 refers to Specification Section 01 10 00 – Summary, paragraph 1.07 Work Under Separate Contracts. This paragraph does not appear to be in the specifications. Please provide this portion of the specifications.**
Answer: This section is not applicable.

5.65 **Question: Would a KONE MRL Traction Elevator be accepted in lieu of hydraulic?**
Answer: No, please provide hydraulic as specified.

5.66 **Question: As listed in the Valve Schedule and shown in the drawings, there are several small diameter swing check valves for use on PVC Sample and Chemical lines. The only check valves specified have Ductile Iron bodies. Should these small diameter check valves for PVC Chemical and Sample lines have a different spec, with PVC bodies perhaps? If so, please provide the acceptable manufacturers and model numbers. (Example from Valve Schedule is valve V8386 for Hypo service, shown on D-811)**
Answer: See the revised valve schedule for clarification on the small diameter check valve types.

5.67 **Question: The Lab has only a 3 faucet sample sink noted on sheet A-774 but 5 sample lines are to be routed to the Lab. Should this sink be modified to accept 5 sample lines?**
Answer: Yes, the sink shall have 5 sample faucets. See revised Drawing A-774.

5.68 **Question: Please confirm 3000 psi concrete is acceptable for all footings.**
Answer: Yes, 3000 psi is acceptable for anything not water retaining or elevated.

5.69 **Question: Please confirm 4000 psi concrete is acceptable for concrete walls at the Admin Building.**
Answer: Yes, in addition to all water retaining structures, 4000 psi shall be used for vertical wall elements and elevated slabs.

5.70 **Question: Please confirm elevator pit concrete walls are 8 inches thick.**
Answer: Yes, elevator pit walls are 8 inches thick.

5.71 **Question: Key Note #2 on S-502 references Sheets S-823 and S-826. These sheets do not appear to have been included in the documents. Please provide these sheets.**
Answer: Disregard references to S-823 and S-826 on S-502. Refer to Sheet S-723 for bar joist locations and Detail O/S-726 for bearing pocket.

5.72 **Question: Related to Note 1 on Drawing D-811, please provide clarification for the Product or Specification to be used for the Interior Coatings of the Chemical Manholes CMH-01, -02 and -03.**
Answer: Disregard this note. The interior of the chemical manholes do not require a coating.

5.73 **Question: Please confirm CHML Building Sump, Detailed on D-811, is required to receive the Interior Concrete Coating per Note 1.**
Answer: The Chemical Building Sump is not required to receive an interior coating.

5.74 **Question: Detail D on Drawing Sheet I-901 shows diaphragm seals on pressure gauges and pressure elements. Detail F, on the same sheet, depicts a pressure gauge associated with the sample pump piping but diaphragm seals are not shown or referenced. The spec for pressure gauges (40-7313) references the spec for diaphragm seals (40-7363), implying that diaphragm seals are required where pressure gauges are called out. Please clarify whether all gauges require diaphragm seals and if not, which gauges do require them.**
Answer: See the P&IDs. The only gauges that require diaphragm seals are on chemical feed systems which are to be provided by the skid manufacturer. The Backwash Waste Pumps require annular seals on the pressure gauges.

5.75 **Question: 9 on sheet C-202 states that no combustible construction can begin until the fire hydrants and water mains are installed and under pressure. The only fire hydrant we've located on the drawings (sheet C-303) is piped off of the 6" PSW Loop which cannot come into service until the plant is in operation. If this is correct, then there is a conflict with note 9. Please either remove the requirement on note 9 or give direction as to how note 9 should be satisfied.**
Answer: This requirement will be removed.

5.76 **Question: Is McWane an acceptable Ductile Iron Pipe and Fittings manufacturer? Specification 40-05-19 lists US Pipe, American and 'Or Approved Equal' only.**
Answer: Yes, McWane is an acceptable manufacturer for ductile iron pipe and fittings.

6. Acknowledgement of Receipt

6.1 Receipt of Addendum No. 3 shall be acknowledged in two ways:

6.1.1 Note (EJCDC C-410) page 3 of Bid Form – Bidder acknowledges receipt of "Addendum No. 3" and date of "February 17, 2026".

AND

6.1.2 EMAIL the signed transmittal sheet to ashley.nobles@gmcnetwork.com to confirm the addendum has been received and is legible

7. Conclusion

7.1 This is the end of Addendum No. 3, dated Tuesday, February 17, 2026.

BID FORM FOR CONSTRUCTION CONTRACT ADDENDUM NO.3

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

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

ORANGE BEACH WATER AUTHORITY
25097 CANAL ROAD
P. O. Box 247
ORANGE BEACH, AL 36561
Attn: VINCENT D. LUCIDO, CHAIRMAN

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

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

A. Required Bid security;

B. List of Proposed Subcontractors;

C. List of Proposed Suppliers;

D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids; and

E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids.

F. Accounting of Sales Tax Attachment to Proposal Form

G. E-Verify Memorandum of Understanding for Employers

H. Certificate of Compliance with the Beason-Hammon Alabama Taxpayer and Citizen Protection Act

ARTICLE 3—BASIS OF BID

LUMP SUM BASE BID

3.01 The Bidder hereby proposes to accept as full payment for completion of the Project the amounts computed under the provisions of the Contract Documents and based on the following lump sum amount. The Bidder agrees that the lump sum price represents a true measure of the labor and material required to perform the work, including all allowances, overhead and profit for work called for. The Lump Sum (LS), including cash allowances, shall be shown in both figures and

words. If a discrepancy exists between the amount stated in words and the amount stated in figures, the amount stated in words shall govern.

The Bidder acknowledges that the **Lump Sum amount includes the amounts for Allowances as listed below.**

The Bidder agrees to perform all the work described in the Base Bid of the Contact Documents for the following lump sum price of

_____ **DOLLARS**

AND _____ **CENTS**

$_____

subject to the reductions or additions resulting from price items, all in accordance with the following Schedule of Payment Items.

ALLOWANCES

Allowances (Specification Section 01 21 00) may be used, as authorized and directed by the Engineer, to pay for costs of additional work resulting from the need for allowance items identified below. This work is not shown or specified in the drawings and not covered by another line item in the Bid. This work may be required in the event the Engineer or Owner establish the need for additional work deemed to be necessary for the completion of this contract. This cash allowance amount is to be included in the Lump Sum Base Bid, but is to be paid to the Contractor only if authorized as provided in this paragraph.

	DESCRIPTION	UNIT PRICE		TOTAL PRICE
1	Construction Staking	LS	$	10,000
2	Materials Testing	LS	$	200,000
3	Engineering Startup	LS	$	25,000
4	Stormwater/Erosion Control Inspection	LS	$	50,000
5	Unforeseen Conditions	LS	$	200,000
6	SCADA & Integration	LS	$	725,000
7	Power Company Aid to Construction	LS	$	50,000
8	Telecom Service Aid to Construction	LS	$	25,000
9	Security Camera System	LS	$	75,000
			$	1,360,000

The Bidder understands that the Owner reserves the right to reject any or all Bids and to waive any informalities in the Bidding.

OWNER SELECTED EQUIPMENT/SUPPLIER

All Owner-Selected Equipment/Supplier items shall be bid according to the following:

The product(s) noted as "A" selection for each item of equipment listed in the following Owner-Selected Equipment/Supplier Schedule has been designated by the Owner for use in the Project. Contractor must bid base bid items. Where more than one product is noted as "A", Bidder must circle the item on which the bid is based. The Bidder may indicate substitute equipment/supplier by writing in a substitute for "B", and writing in the amount of deduction for the substitute equipment supplier.

The prior naming of substitute equipment/suppliers is based on a belief that the substitute should be able to furnish "equal" equipment/service as that specified, although it may not be the supplier's standard. Should the write-in substitute be disallowed by the Owner as "not equal" or "not desired", then the Bidders shall supply the circled "A" item. If no substitute is indicated, the Bidder must supply the circled "A" item. Should Bidder fail to circle one, or circle more than one, the Bid will be deemed by Owner to be based upon the first-listed equipment/supplier, and Bidder, if awarded the Contract, shall provide same.

The Bidder must supply a base bid for the Owner-Selected Equipment/Supplier items. The contract will be awarded based on the base bid. The Bidder may supply a deductive cost from the base bid for one of the products in the schedule below by writing in a substitute. This amount will be deducted from the base bid (after award) if the Owner in its sole discretion determines that the acceptance of the substitute product is in its own best interest. The Owner in its sole discretion may determine any substitute "not desired" and reject said substitute.

For comparable alternate named equipment "B", the furnished items shall fulfill the function and performance of the item specified and shall be of equal quality to base bid equipment "A"; any modifications required by the furnished alternate equipment to the structure, process, associated equipment, electrical or piping shall be include in the Alternate Bid price, and the completed installation of the item by the Contractor shall incur no additional cost to the Owner, including engineering cost to accommodate alternate supplier.

Additional substitutes will not be considered after receipt of the Bidder's Proposal.

Design of this project is based upon the manufacturer's equipment or product noted as "A" item in the schedule. Should a Bidder propose furnishing substitute equipment, the Bidder shall comply with the provisions in Specification Section 01 25 00 – Substitution of Major Equipment Items.

Indicate the Base Bid manufacturer under "Manufacturer" below by circling the manufacturer used for the Lump Sum Base Bid Total.

Item	Specification Section	Description	Manufacturer/Supplier		Amount of Alternate ($+/-)
1	13 40 00	Prestressed Composite Tanks	A	CROM	
			A	Precon	
			A	Preload	
			B		$
2	43 12 51	Rotary Screw Blowers	A	Atlas Copco	
			A		
			B		$
3	43 23 13	Vertical Turbine Pumps	A	Goulds	
			A	Peerless	
			B		$
4	43 25 13	Submersible Centrifugal Pumps	A	Wilo	
			A	Flygt	
			B		$
5	43 41 46	Vertical Polyethylene Tanks & Accessories	A	PolyProcessing	
			A	Snyder	
			B		$
6	46 33 13	Sodium Hypochlorite Generating Equipment	A	Cleanwater 1	
			A	De Nora	
			B		$

7	46 33 44	Peristaltic Metering Pumps	A	Watson Marlow	
			A	Blue White	
			A	Lutz-Jesco	
			B		$
8	46 39 20	Aluminum Induced Draft Aerators	A	Tonka	
			A	DeLoach	
			A	INDUSCO	
			B		$
9	46 41 11	Rapid Mixers	A	Enviropax	
			A	Ebara	
			A	MIXTEC	
			B		$
10	46 41 34	Vertical Paddle Wheel Flocculation Equipment	A	MRI	
			A	JMS	
			B		$
11	46 61 23	Gravity Filters	A	Leopold	
			A	De Nora	
			B		$
12	46 41 17	In-Line Static Mixers	A	Statiflo	
			A	Westfall	
			B		$

ARTICLE 4—TIME OF COMPLETION

4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

4.02 Bidder agrees that the Work will be substantially complete within **730** calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **760** calendar days after the date when the Contract Times commence to run.

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

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

5.01 *Bid Acceptance Period*

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

5.02 *Instructions to Bidders*

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

5.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 6—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder's Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. ~~Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work~~.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.

7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

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

6.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

3. Bidder has not solicited or induced any individual or entity to refrain from bidding.

4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:

a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.

b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.

d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

_____

(typed or printed name of organization)

By: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

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

Attest: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

Address for giving notices:

_____

_____

Bidder's Contact:

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Phone: _____

Email: _____

Address:

_____

_____

_____

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

ADDENDUM #3

SECTION 08700 - FINISH HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. This Section includes the following:

1. Hinges.
2. Key control system.
3. Lock cylinders and keys.
4. Lock and latch sets.
5. Bolts.
6. Exit devices.
7. Push/pull units.
8. Closers.
9. Overhead holders.
10. Miscellaneous door control devices.
11. Door trim units.
12. Protection plates.
13. Weather-stripping for exterior doors.
14. Sound stripping for interior doors.
15. Astragals or meeting seals on pairs of doors.
16. Thresholds.

C. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 8 Section "Standard Steel Doors and Frames" for silencers integral with hollow metal frames.
2. Division 8 Section "Flush Wood Doors" for factory pre-fitting and factory pre-machining of doors for door hardware.
3. Division 8 Section "Aluminum Entrances and Storefronts" for aluminum entrance door hardware, except cylinders.

1.3 QUALITY ASSURANCE

The supplier must have demonstrated willingness to coordinate field problems, and (upon reasonable compensation) to assist the Owner in re-keying and service operations. He must have a reputation for supplying quality material. Pre-bid approval is required **by Addendum** 10 days in advance of the Bid Day. The following Suppliers are accorded such approval in advance:

a. Brabner & Hollon; Mobile, AL
b. Mullins Building Products; Montgomery, AL
c. Rayford & Associates, Inc.; Mobile, AL

1.4 SUPPLIER

A. Door hardware supplier's responsibilities shall be as follows:

1. Submittals: Submit through Contractor required product data, final hardware schedule;

   separate keying schedule, and samples as specified in this Section, unless otherwise indicated.

2. **Hardware Review Meeting**: Hardware Supplier shall attend a scheduled "Hardware Review Meeting" with the Contractor, Owner and Architect representative. All Hardware products, hardware installation locations, finishes, color selections, ratings and keying is to be reviewed and discussed. The Hardware Supplier understands the Hardware Submittal is not deemed "Fully Approved" until the Owner has completed their review and given "Approval".

3. Construction Schedule: Inform Contractor promptly of estimated times and dates that will be required to process submittals, to furnish templates, to deliver hardware, and to perform other work associated with furnishing door hardware for purposes of including this data in construction schedule. Comply with this schedule.

4. Coordination and Templates: Assist Contractor as required to coordinate hardware with other work in respect to both fabrication and installation. Furnish Contractor with templates and deliver hardware to proper locations.

5. Product Handling: Package, identify, deliver, and inventory door hardware specified in this Section.

6. Discrepancies: Based on requirements indicated in Contract Documents in effect at time of door hardware selection, furnish types, finishes, and quantities of door hardware, including fasteners, and Owner's maintenance tools required to comply with specified requirements and as needed to install and maintain hardware. Furnish or replace any items of door hardware resulting from shortages and incorrect items at no cost to the Owner or Contractor. Obtain signed receipts from Contractor for all delivered materials.

B. Contractor's responsibilities shall be as follows:

1. Submittals: Coordinate and process submittals for door hardware in same manner as submittals for other work.

2. **Hardware Review Meeting**: Contractor is to schedule and attend a "Hardware Review Meeting" with the Owner, Hardware Supplier and Architect Representative. All Hardware products, hardware installation locations, finishes, color selections, ratings and keying is to be reviewed and discussed. The Contractor understands the Hardware Submittal is not deemed "Fully Approved" until the Owner has completed their review and given "Approval".

3. Construction Schedule: Cooperate with door hardware supplier in establishing scheduled dates for submittals and delivery of templates and door hardware. Incorporate in construction schedule the times and dates related to furnishing hardware by door hardware supplier.

4. Coordination: Coordinate door hardware with other Work. Furnish hardware supplier or manufacturer with shop drawings of other work where required or requested. Verify completeness and suitability of hardware with supplier. Coordinate all wiring, raceways, accesses and final connections to all electronic devices and components per manufacturer requirements for a fully functioning system.
5. Product Handling: Provide secure lock-up for hardware delivered to the site. Inventory hardware jointly with representative of hardware supplier and issue signed receipts for all delivered materials.
6. Installation Information: The general types and approximate quantities of hardware required for this Project are indicated at the end of this Section in order to establish Contractor's costs for installation and other work not included in allowance.
7. No adjustments in Contract sum will be made for costs other than those covered by the allowances for subsequent increases or decreases in quantity of one or more hardware types that do not exceed 5 percent.

1.5 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.

B. Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.

C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Upon return of the reviewed finish hardware schedule, arrange for a meeting with the Owner and representatives of Architect. A keying schedule will be established and submitted to the Architect and Owner. After review, the keying schedule will be returned to representatives of Finish Hardware Supplier so that permanent cylinders and keys can be prepared on a timely basis.

1.6 QUALITY ASSURANCE

A. Substitutions: All substitution requests must be submitted before bidding and within the procedures and time frame as outlined in Division 1, General Requirements. Approval of products is at the discretion of the architect and his hardware consultant.

B. Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer.

C. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for a minimum of 10 years, for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced " Certified "architectural hardware consultant (AHC)" as recognized by the Door and hardware Institute (DHI). All submittals shall be signed by an AHC who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.

D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL, Warnock Hersey, FM, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.

1.7 PRODUCT HANDLING

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set

number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

C. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

D. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.8 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 HINGES

A. MANUFACTURERES

1. Hager
2. McKinney
3. Stanley

B. MATERIAL:

1. Provide only template produced units
2. Provide Phillips flat-head or machine screws for installation of units, except furnish Phillips flat-head wood screws for installation of units in to wood. Finish screw heads to match surface of hinges or pivots.
3. Hinge pins, except as noted, are to be provided as follows:
   a. Steel Hinges: Steel pins
   b. Non-ferrous Hinges: Stainless steel pins
   c. Exterior Doors: Use Non-Removable Pins
   d. Interior Doors: Non-rising pins
   e. Electric Hinges: Non-removable pins
4. Tips shall be flat button and matching plug, finished to match leaves.
5. Provide number of hinges indicated but not less than three (3) hinges for door leaf of 90” or less in height and one additional hinge for each 30” of additional height.
6. Provide ball bearing hinges of the type and weight suggested by the hinge manufacturer for each type of door application.

2.2 CONTINOUS GEARED HINGES

A. MANUFACTURERES

1. Hager Companies
2. ABH Manufacturing
3. SELECT Products Ltd
4. Stanley
5. National Guard Products

B. MATERIAL:

1. Fully Concealed Hinges, Heavy Duty
2. Conform to ANSI/BHMA A156.26-2006 Grade 1.
3. Typical hinge height shall be 1" less than nominal door height.

2.3 LOCK CYLINERS AND KEYING

A. MANUFACTURERES

1. All cylinders must be keyed as per the Owners needs.

B. MATERIAL

1. Keys shall be furnished as follows:
   a. 2 each Change Keys per core/or keyed alike group
   b. 6 each Master Keys
   c. 2 each Control Key

2. Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall expansion capacity of 150% of the number of locks required for the project.

2.4 ELECTRONIC HARDWARE

A. MANUFACTURERES

1. Basis of design HES Electric Strikes
2. Stanley/Precision
3. Dormakaba
4. Alarm Lock
5. *Note: A Mandatory meeting will be required for Hardware Supplier concerning all special openings requiring electronic hardware (see Hardware Sets). No material is to be ordered until verified at this meeting. Meetings will be as directed by architect including design consultant, contractor, and owner representative.*

2.5 LOCKSETS AND LATCHSETS

A. MANUFACTURERES

1. Stanley/Best 9K3 Series, 14D Design
2. Stanley/Best 45H Series, 14H Design

B. MATERIAL

1. Locksets and latch-sets of all manufacturers must conform to the requirements of Sub paragraphs 2 and be approved by the Architect.
2. Cylindrical Lock Type
   a. Locksets and latch sets must conform to ANSI A156.2 Series 4000, Operational Grade 1, and be UL Listed.

      OR
3. Mortise Type
   a. Locksets and latch sets must conform to ANSI A156.2 Series 1000, Grade 1, and be UL Listed
   b. Locksets and latch-sets must be heavy duty mortise type with 2-3/4 in. backset, or greater as specified, with a 3/4 inch throw latch-bolt.
   c. Locksets shall be furnished with a cylinder housing that accepts a small format interchangeable core. Cores must be furnished by Best Access Systems.
   d. Trim to be 14H Design.

2.6 EXIT DEVICES

A. MANUFACTURERES

1. Sargent 8800 Series x ET Trim Design
2. Best/Precision Apex 2000 Series x 4900D Trim Design
3. Von Duprin 98/99 Series x 996L Trim Design

B. MATERIAL

1. All exit devices to be of one manufacturer and provided in same finish and lever design as locksets.
2. Provide sex nuts and bolts for attachment of surface applied items to doors.
3. Devices shall be UL listed. Devices for fire rated openings shall bear factory installed UL markings that indicate approval for fire rated openings.
4. All exit devices shall be touch-bar type design and Grooved aluminum extrusions are not allowed.
5. All exit devices shall comply with ANSI A156.3, Grade 1.
6. Exit devices must meet hurricane code where required.
7. Exit device lever trim shall be equal to 14D design.

2.7 CLOSERS

A. MANUFACTURERES

1. LCN – 4040XP Series
2. Stanley/Best – HD8000 Series
3. Hager Companies - 5100 Series
4.

B. MATERIAL

1. Size of units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending upon size of door, exposure to weather and anticipated frequency of use.
   a. Where parallel arms are indicated for closers, provide closer unit one size larger than recommended for use with standard arms.
   b. Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units, ANSI opening force and delayed action closing.
2. Provide manual closers that are certified to exceed ten million (10,000,000) full load operating cycles by a recognized independent testing laboratory. Closers are to be fully hydraulic, rack and pinion action with high strength cast aluminum or cast iron cylinders and one piece forged steel pistons. Hydraulic fluid to be of a type requiring no seasonal adjustments for temperature. Hydraulic regulation to be controlled by tamper-proof, non-critical screw values, adjustable with a hex by tamper-proof, non-critical screw valves, adjustable with a hex wrench. Separate adjustments for back check, general speed, and latch speed. Where detailed on double lever arm closers, provide a delayed action feature to delay closing up to one minute for maximum opening to approximately 75 degrees. Back check shall be properly located for protection of the door, frame and applied hardware.
2. Use of closers with built-in spring or cushion stops will be allowed in lieu of overhead stops.
3. All door closers shall comply with ANSI A156.4 Grade 1 and meet the standards of ANSI A117.1 for barrier-free accessibility.

2.8 OVERHEAD STOPS AND HOLDERS

A. MANUFACTURERES

1. Dormakaba
2. ABH Manufacturing
3. Hager Companies

B. MATERIAL

1. Conform to ANSI A156.8 Grade 1.
2. Surface Mount, Heavy or Medium Duty (refer to hardware sets)

2.9 PUSH/PULLS & PROTECTION PLATES

A. MANUFACTURERES

1. Hager Companies
2. Burns Mfgr.
3. Trimco Hardware

B. MATERIAL

1. Provide manufacturers standard exposed fasteners for installation, through bolted for matched pairs, but not of single units.
2. Provide 16 gauge minimum thickness for plates.
3. Where specified in the schedule, push/pulls shall have an antimicrobial coating.

2.10 THRESHOLDS, WEATHERSTRIPPING & GASKETING

A. MANUFACTURERES
   1. Zero
   2. Hager
   3. National Guard

B. MATERIAL
   1. Provide continuous weather-stripping at each edge of every exterior door leaf, except as otherwise indicated.
   2. Provide type, size and profile shown as scheduled.
   3. Provide non-corrosive fasteners as recommended by manufacturer for application indicated. Do not specify adhesive backed weather-strip or gasket material.
   4. Where replaceable seal strips are scheduled, provide only those units where resilient or flexible seal strip is easily replaceable from stocks maintained by manufacturer.
   5. Proved standard metal threshold unit of type, size and profile shown as scheduled.

2.11 FINISHES

A. Hardware finishes shall conform to ANSI and shall be as listed below for aluminum, FRP, hollow metal and wood doors:

B. Finishes Table:

Butt Hinges	652 Satin Chrome Plated Steel
Continuous Geared Aluminum Hinges	628 Clear Anodized Aluminum, except at aluminum storefront doors. At Aluminum storefront doors, provide anodized or Kynar finish as required to match specified door finish.
Cont. Pin & Barrel Hinges	630 Satin Stainless Steel
Flush Bolts	626 Satin Chrome Plated
Locksets	626 Satin Chrome Plated
Exit Devices	630/626 Satin Chrome Plated
Door Closers	689 Powder Coat Aluminum
Push Plates	630 Satin Stainless Steel
Pull Plates	630 Satin Stainless Steel
Protective Plates	630 Satin Stainless Steel
Door Stops	626 Satin Chrome Plated
Overhead Holders	630 Satin Stainless Steel

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install each hardware item in compliance with manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted of finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item.

1. Do not install surface mounted items until finishes have been completed on the substrate.

B. Conform to ANSI A117.1 for positioning requirements for the handicapped.

3.2 PROTECTION AND CLEANING

A. After installation, clean metal surfaces on both interior and exterior of all mortar, paint and other contaminants. After cleaning, protect work against damage.

3.3 FINAL ADJUSTMENT

A. Whenever hardware is installed more than one month prior to occupancy or acceptance, return during the week prior to acceptance or occupancy and make a final inspection and adjustment of all hardware items in such space or area.

3.4 HARDWARE SCHEDULE

Manufacturer List

Code	Name
AB	ABH Manufacturing Inc.
BE	Best Access Systems
NA	National Guard
PR	Precision/Best
BE	Best Door Closers
HE	HES
ST	Stanley/Best
HA	Hager
SP	Simplex

Option List

Code	Description
C4	CAM-STANDARD CAM
CD	CYLINDER DOGGING
HC	Hurricane Code Device
SN	Sex Nuts (Pkg. of 4)
B4E	BEVELED 4 EDGES - KICK PLATES
CSK	COUNTER SINKING OF KICK and MOP PLATES
LBR	LESS BOTTOM ROD
MCS822	Mullion Cap Spacer (600 Finish)
S301	OPT. ROLLER. STRK - RIM AND TOP OF SVR
CA-03	Cylinder Attachment Kit (Rim/SVR Device)
SNB (2)	SEX BOLTS (2)

SNB (6) SEX BOLTS (6)

Finish List

Code	Description
C	Clear Anodized Aluminum
AL	Aluminum
600	Primed for Painting
626	Satin Chromium Plated
630	Satin Stainless Steel
689	Aluminum Painted
BLACK	Black
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

Hardware Sets

SET #E01

Dbl. Exterior Entry Doors: 100A. **(Keypad)**

2	Continuous Hinge	661HD UL x 83”	AL	ST
1	Removable Mullion	HCKR822 MCS822	600	PR
1	Exit Device-Inactive Leaf	HC2101 36" CD S301 SNB (2)	630	PR
1	Exit Device-Active Leaf	HC2103 X LP1020	630	SP
2	Rim Cylinder	12E-72 STD	626	BE
2	Mortise Cylinder	1E-74 STD C4	626	BE
4	Construction Core	1C-7 Green	GN	BE
2	Door Closer	HD8016 S-DST	689	BE
1	Mullion Seal	5100N x 86”		NA
2	Door Sweep	750SN x 36”		HA
1	Threshold	520S N x 72”		HA
1	Set Weather-Stripping	892S N x 1@72” X 2@84”		HA

SET #E02

E02 Dbl. Exterior Mechanical/ Entry Doors: 107A, 108B, 113A. **(Keypad)**

2	Continuous Hinge	661HD UL 83”	AL	ST
1	Removable Mullion	HCKR822 MCS822	600	PR
1	Exit Device-Inactive Leaf	HC2101 36" S301 SNB (2)	630	PR
1	Exit Device-Active Leaf	HC2103 X LP1020	630	SP
2	Rim Cylinder	12E-72 STD	626	BE
2	Construction Core	1C-7 Green	GN	BE
2	Door Closer	HD8016 S-DST	689	BE
1	Mullion Seal	5100N-86”		NA
2	Door Sweep	750SN x 36”		HA
1	Threshold	520S N x 72”		HA

1	Set Weather-Stripping	892S N x 1@72" X 2@84"		HA

SET #E02.1

E2.1 Dbl. Exterior Mechanical/ Entry Doors: 108B. **(Keypad) (Fire Rated)**

2	Continuous Hinge	661HD UL 83"	AL	ST
1	Removable Mullion	HCKR822 MCS822	600	PR
1	Exit Device-Inactive Leaf	HC2101 36" S301 SNB (2)	630	PR
1	Exit Device-Active Leaf	HC2103 X LP1020	630	SP
2	Rim Cylinder	12E-72 STD	626	BE
2	Construction Core	1C-7 Green	GN	BE
2	Door Closer	HD8016 S-DST	689	BE
1	Mullion Seal	5100N-86"		NA
2	Door Sweep	750SN x 36"		HA
1	Threshold	520S N x 72"		HA
1	Set Weather-Stripping	892S N x 1@72" X 2@84"		HA
2	Set Smoke-seal	726S 17'	CH	HA

SET #E03

Sgl. Exterior Fire Riser Door: 103A. **(Keypad)**

1	Continuous Hinge	661HD UL 83"	AL	ST
1	Mortise Lockset	45HZ-7TV 14KG STD	630	BE
1	Exit Device-Active Leaf	HC2103 X LP1020	630	SP
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 S-DST	689	BE
1	Door Sweep	750SN x 36"		HA
1	Threshold	520S N x 36"		HA
1	Set Weather-Stripping	892S N x 1@36" X 2@84"		HA

SET #E04

Sgl. Exterior Entry Doors: 102A, 108A, 110B, 110C, 201A, 201B. **(Keypad)**

1	Continuous Hinge	661HD UL 83"	AL	ST
1	Exit Device	HC2103 X LP1020	630	SP
1	Rim Cylinder	12E-72 STD	626	BE
1	Mortise Cylinder	1E-74 STD C4	626	BE
2	Construction Core	1C-7 Green	GN	BE
1	Electric Strike	9600	630	HE
1	Controller	2005M3		HE
1	Power Supply	BPS-12/24 1AMP		SU
1	Wiring Harness	QC-C1500		MC
1	Door Closer	HD8016 S-DST	689	BE
1	Door Sweep	750SN x LAR		HA
1	Threshold	520S N x LAR		HA
1	Set Weather-Stripping	892S N x 1@36" X 2@84"		HA

SET #E05

Sgl. Exterior Entry Doors: 110A. Fire Rated **(Keypad)**

1	Continuous Hinge	661HD UL 83”	AL	ST
1	Exit Device	FLHC2103 X LP1020	630	SP
1	Rim Cylinder	12E-72 STD	626	BE
1	Mortise Cylinder	1E-74 STD C4	626	BE
2	Construction Core	1C-7 Green	GN	BE
1	Electric Strike	9500	630	HE
1	Controller	2005M3		HE
1	Power Supply	BPS-12/24 1AMP		SU
1	Wiring Harness	QC-C1500		MC
1	Door Closer	HD8016 DS	689	BE
1	Door Sweep	750SN x 36”		HA
1	Threshold	520S N x 36”		HA
1	Set Weather-Stripping	892S N x 1@36” X 2@84”		HA

SET #01

Interior Sgl. Egress Doors: 102B, 109B, 109C, 110D, 202A. **(Fire Rated)**

3	Hinges	FBB168 4 1/2 X 4 1/2	26D	ST
1	Exit Device	FL2108 x 4908D 36" S301 SNB (2)	630	PR
1	Rim Cylinder	12E-72 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Set Smoke-seal	726S 17’	CH	HA

SET #02

Interior Sgl. Office Doors: 205A, 206A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Office Lockset	9K3-7AB14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Wall Bumper	236W	630	HA
3	Silencers	307D	Grey	HA

SET #03

Interior Pair Conference Doors: 204A.

6	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
2	Flush Bolts	282D 12”	26D	HA
1	Storage Lockset	9K3-7AB14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Dust Proof Strike	280X	626	HA
2	Wall Bumper	232W	630	HA
2	Silencers	307D	Grey	HA

SET #04

Interior Pair Washer/Dryer Doors: 104B.

6	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
2	Flush Bolts	282D 12”	26D	HA
1	Passage Set	9K3-0N14D S3	626	BE
2	Overhead Stop/Holder	4424	630	AB
1	Dust Proof Strike	280X	626	HA
2	Silencers	307D	Grey	HA

SET #05

Interior Sgl. Restroom Doors: 105A, 208A, 209A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Privacy Set	9K3-0L14D S3	626	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Mop Plate	190S 6" x 35" B4E CSK	630	HA
1	Wall Bumper	232W	630	HA
3	Silencers	307D	Grey	HA

SET #06

Interior Sgl. Mudroom/Janitor Door: 104A, 203A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Passage Set	9K3-0N14D S3	626	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Wall Bumper	232W	630	HA
3	Silencers	307D	Grey	HA

SET #07

Interior Sgl. Storage Room Doors: 106A, 207A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Storage Lockset	9K3-7D14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Wall Bumper	232W	630	HA
3	Silencers	307D	Grey	HA

SET #08

Interior Sgl. Support Room Doors: 111A, 112A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Storage Lockset	9K3-7D14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Wall Bumper	232W	630	HA
3	Silencers	307D	Grey	HA

SET #09

Interior Sgl. Lab Room Door: 210A.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Office Lockset	9K3-7AB14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Wall Bumper	236W	630	HA
3	Silencers	307D	Grey	HA

SET #10

Interior Sgl. Lab Room Door: 210B.

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Office Lockset	9K3-7AB14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Floor Stop	242F	626	HA
3	Silencers	307D	Grey	HA

SET #11

Interior Sgl. Lab Storage Door: 211A.

3	Hinges	FBB179 4 1/2 X 4 ½	26D	ST
1	Storeroom Lockset	9K3-7D14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Wall Stop	232W	630	HA
3	Silencers	307D	Grey	HA

SET #12

Interior Sgl. Electrical Room Door: 108C. **(Fire Rated)**

3	Hinges	FBB179 4 1/2 X 4 1/2	26D	ST
1	Storeroom Lockset	9K3-7D14D S3 STD	626	BE
1	Construction Core	1C-7 Green	GN	BE
1	Door Closer	HD8016 AF80P	689	BE
1	Kick Plate	190S 10" x 34" B4E CSK	630	HA
1	Wall Bumper	232W	630	HA
1	Set Smoke-seal	726S 17’	CH	HA

SET #13

Overhead Doors: 110E, 111B, 112B.

NOTE: ALL HARDWARE BY DOOR SUPPLIER.

NOTES:

A) INSTALL ALL DOOR CLOSERS AWAY FROM CORRIDORS AND PUBLIC VIEW.
B) ALL EXTERIOR & INTERIOR CYLINDERS AND LOCKSETS TO HAVE KEYED CONSTRUCTION CORES THROUGH-OUT THE CONSTRUCTION PHASE.

END OF SECTION 087100

SECTION 46 41 34 - VERTICAL PADDLE WHEEL FLOCCULATION EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Vertical turbine flocculators.

B. Related Requirements:

1. Section 05 50 00 – Metal Fabrications: Miscellaneous metalwork and fasteners as required by this Section.
2. Section 09 96 00 – High-Performance Coatings: Execution requirements for coatings specified by this Section.

1.2 DEFINITIONS

A. Floc: A tuft-like mass that forms in a liquid as a result of precipitation or the aggregation of suspended particles. Coagulation chemicals are generally added to the water being treated in order to enhance the development of floc.

B. Flocculator: A slow-rotating mixer used to induce flocculation, the process to enhance agglomeration of smaller floc particles into larger, more easily settleable or filterable particles (floc).

1.3 REFERENCE STANDARDS

A. American Bearing Manufacturers Association:

1. ABMA 9 – Load Ratings and Fatigue Life for Ball Bearings.
2. ABMA 11 – Load Ratings and Fatigue Life for Roller Bearings.

B. National Electrical Manufacturers Association:

1. NEMA 250 – Enclosures for Electrical Equipment (1000 Volts Maximum).

C. National Sanitation Foundation:

1. NSF 61 – Drinking Water System Components – Health Effects.
2. NSF 372 – Drinking Water System Components – Lead Content.

1.4 SUBMITTALS

A. Section 01 33 00 – Submittal Procedures: Requirements for submittals.

B. Product Data:

1. Submit manufacturer's product data for system materials and component equipment, including electrical characteristics and connection requirements.

C. Process design calculations including velocity gradient, tip speed, horsepower requirements, and paddle arrangement.

D. Shop Drawings:

1. Indicate system materials and component equipment.
2. Submit wiring and control diagrams, installation and anchoring requirements, fasteners, and other details.

E. Test and Evaluation Reports: Submit installation certificate from equipment manufacturer's representative.

F. Manufacturer Instructions: Submit detailed instructions on installation requirements, including storage and handling procedures.

G. Source Quality-Control Submittals: Indicate results of factory tests and inspections.

H. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.

I. Manufacturer Reports: Certify that equipment has been installed according to manufacturer instructions.

1.5 CLOSEOUT SUBMITTALS

A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for submittals.

B. Project Record Documents: Record actual locations and final orientation of equipment and accessories.

C. Operation and Maintenance Data: Submit maintenance instructions for equipment and accessories.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for maintenance materials.

B. Spare Parts:

1. Furnish one set of manufacturer's recommended spare parts.

C. Tools: Furnish special tools and other devices required for Owner to maintain flocculation equipment.

1.7 QUALITY ASSURANCE

A. Materials in Contact with Potable Water: Certified to NSF 61 and NSF 372.

B. All equipment in this Section shall be furnished by a single supplier who shall be responsible for the coordination, supply, and testing of the equipment. Equipment shall be fabricated, assembled, erected and placed in proper operating condition in full conformity with the Drawings, Specifications, instructions and recommendations of the equipment manufacturer.

1.8 QUALIFICATIONS

A. Manufacturer: Company having a minimum of fifteen (15) years documented experienced in the design and construction of equipment for this purpose, and shall have furnished such equipment and can prove that it has performed successfully for a period of not less than ten (10) years.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 – Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.

C. Store materials according to manufacturer instructions.

D. Protection:

1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
2. Protect piping and equipment from entry of foreign materials by using temporary covers.
3. Provide additional protection according to manufacturer instructions.

1.10 WARRANTY

A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for warranties.

B. Furnish one-year manufacturer's warranty for flocculation equipment.

PART 2 - PRODUCTS

2.1 VERTICAL PADDLE WHEEL FLOCCULATORS

A. Manufacturers:

1. Meurer Research ; Golden, CO.
2. Jim Meyers & Sons

3. Or Pre-Approved Equal.

    a. Specifications and equipment arrangements for the Vertical Paddle Wheel Flocculation Equipment are based on Meurer Research. Changes to the arrangement indicated in the specifications and in the plan set shall be at the expense of the installing contractor. No change orders will be issued to the contractor for modifications to the laying length, footprint, concrete layout, electrical, mechanical, etc.

B. Work Description:

1. Furnish, install and place into satisfactory operation vertical paddle-wheel flocculators; complete with all accessories and appurtenances as shown on the Drawings and specified herein, and as needed for a complete installation.
2. Flocculators shall be of the vertical shaft, paddle-wheel type.
3. The flocculator and its appurtenances shall be specifically designed for continuous duty operation in a submerged application in a flocculation basin. The flocculators shall not overload the motors at any point within the operating limits recommended by the flocculator manufacturer.
4. The flocculator shall be designed with no submerged bearings and with a dry installed motor. The entire weight of the flocculators shall be supported by bridges/walkways.

C. Performance Requirements:

1. Number of Trains: 4
2. Number of Stages per Train: 2
3. Basin (Stage) Dimensions: 24 ft x 24 ft x 19.5’ ft
4. Side Water Depth (at HWL): 17.47 ft.
5. Peak Flow: 10 MGD
6. Peak Flow per Train: 2.5 MGD
7. Number of Reels per Stage: 1
8. Design Velocity Gradient (1st Stage): 60 sec^{-1}
9. Design Velocity Gradient (2nd Stage): 30 sec^{-1}
10. Materials of Construction: 304 stainless steel.
11. 1st Stage Flocculators Motor Size: 4 hp (max)
12. 2nd Stage Flocculators Motor Size: 2 hp (max)

D. General Requirements:

1. The flocculation equipment shall be designed to accomplish mixing and tapered flocculation in the basins without shearing or destabilizing the agglomerated floc particles.

E. Shafting System:

1. Shafts:

    a. The shafting system for each mechanism shall be sized within stress limitations at full load at full motor speed.
    b. The maximum shear stress shall not exceed 6,000 psi at any point in the shaft.

c. Hubs shall be 304 stainless steel and minimum 1/2" thick and be welded to the shafts for paddle arm connection. Welds shall be continuous on both sides of the hub plate.
d. Drive shaft shall be adequately sized to transmit the required torque at full speed, manufactured from solid Type 304 stainless steel, and shall be no less that 2-7/16". The drive shaft shall be keyed on one end and flanged on the other end.
e. Paddle reel shafting shall be Type 304 stainless steel hollow shafting, straight and true. The paddle reel shaft shall have flanges on both ends for a bolted connection between the drive shaft and idle end shaft.
f. The idle end shaft shall be solid Type 304 stainless steel, and shall be no less than 1-15/16, flanged on one end.
g. All flanges shall be manufactured from Type 304 stainless steel. Flange size shall be determined by pipe shaft diameter. A minimum 1/4" thick neoprene gasket shall be placed between each set of flanges. After fabrication, each shaft assembly's flange shall be faced to within 0.015" of parallel to one another. Solid shaft flanges shall be faced to within 0.015" of perpendicular to the axis of the shaft.

2. Bearings:

a. The solid drive shaft shall be connected to the output shaft of the gear reducer by a flexible chain coupling, and shall be supported by a heavy-duty radial thrust roller bearing and thrust collar mounted on the drive support base. The roller bearing shall be dynamically self-aligning.
b. The thrust bearing assembly shall be independent of the gear reducer and no external or overhung loads shall be imposed on the gear reducer.
c. The paddle shaft shall be held in position by a water-lubricated steady guide and bracket mounted on the basin floor. The submerged steady guide shall be UHMW-PE and removable without disassembly of the paddle shaft.
d. L10 shall exceed 100,000 hours.

3. Paddle Assemblies

a. The flocculator paddles shall be nominal 2" x 6" Type 304 stainless steel. Paddles shall be bolted to paddle arms with two 1/2" bolts and nylon insert lock nuts at each connection. All edges shall be deburred and all welds are to be cleaned.
b. The paddles shall be held in place and supported by stainless steel angle arms bolted to the fabricated stainless steel shaft hubs with two 5/8" bolts and nylon insert locknuts. The paddle arms shall be sized for a tip deflection of no more than 1/360, and shall be no smaller than L3 x 3 x 1/4" angles.

F. Motor

1. Squirrel cage induction motor.
2. Inverter duty rated.
3. 460 V, 3 phase, 60 Hz, 1,800 RPM, Class F insulation.
4. NEMA MG1 Premium Efficiency.
5. TEFC, IP66, Class B.
6. Service Factor: 1.15.
7. Provide 120 V space heaters and thermostat for overload protection.
8. Electrical service to the equipment shall be single point of connection.

G. Gear Reducers

1. Drive units shall be as manufactured by SEW Eurodrive and contain wash down duty features.
2. Each drive unit shall be constant speed and designed to provide speed and output torque as required by process design. The gearbox shall be parallel helical or helical bevel gearing as required by site constraints.
3. Each gear reducer shall be a heavy-duty, foot-mounted, concentric gear unit completely enclosed in a housing of cast iron or fabricated steel construction. The gear reducer shall be specifically designed for the application intended and shall be suitable for connection to the output shaft. General maintenance, specifically including motor changes, gear changes, bearing replacement and maintenance of the oil lubricating system shall not require the removal of the gear reducer housing from its mounting base.
4. The gear reducer shall be designed and rated for a minimum of AGMA II with a service factor of 1.4 applied to the motor nameplate rating.
5. The thermal rating of gear reducer shall exceed the design mechanical rating to preclude the need for external cooling equipment. External cooling devices are not acceptable.
6. The gear reducer output shaft shall be constructed and supported so that the shaft deflection caused by the operating loads does not affect alignment of the reducer bearings or cause misalignment of the gearing during operation of the flocculator. All bearings in the speed reducer shall be anti-friction type and shall have a minimum L-10 life of 80,000 hours. The units shall be oil lubricated. All gears and bearings shall be protected from rusting during storage by the application of a shop-applied protective coating.

H. Drive Stand Assembly

1. The drive stand assembly shall be manufactured from Type 304 stainless steel consisting of a drive stand and drive support plate. The drive support plate shall be a minimum of 1/2" thick, and bolts to the drive stand which shall have a minimum material thickness of 1/4“.
2. The drive stand shall be designed and reinforced to withstand all loads, torsional and vertical, applied by rotating forces of the flocculation equipment operating at full speed
3. The drive stand shall allow for the mounting of the drive base plate, radial thrust bearing, and thrust collar.

I. Hardware

1. All field assembly bolts and anchor bolts, nuts, and washers shall be Type 316 stainless steel.
2. Submerged connections shall be made with Type 316 stainless steel bolts, washers, and nylon insert locknuts.

J. Welding:

1. All welded joints that will be fully or partially submerged shall be sealed watertight with continuous welds. All welding will be performed in accordance with AWS standards.

K. Finishes:

1. Mechanical components such as drive unit and bearing shall include manufacturer's standard wash down duty paint system.

2.2 SOURCE QUALITY CONTROL

A. Section 01 40 00 – Quality Requirements: Requirements for testing, inspection, and analysis.

B. Provide shop inspection and testing of completed assembly.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for installation examination.

B. Verify layout and orientation of equipment and accessories.

C. Verify that tankage and peripheral equipment are ready for installation of flocculators.

3.2 INSTALLATION

A. According to manufacturer instructions and as indicated on Shop Drawings.

B. NSF 61 approved anti-seize thread lubricant shall be applied to the male threads of all stainless steel bolts at the time of the assembly.

3.3 FIELD QUALITY CONTROL

A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for testing, adjusting, and balancing.

B. Manufacturer Services: Furnish services of manufacturer's representative experienced in installation of products furnished under this Section for not less than two (2) trips and three (3) days on site for installation, inspection, startup, field testing, and instructing Owner's personnel in maintenance of equipment.

C. Equipment Acceptance:

1. Adjust, repair, modify, or replace components failing to perform as specified and rerun tests.
2. Make final adjustments to equipment under direction of manufacturer's representative.

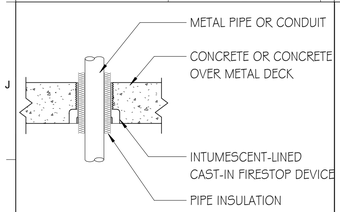
D. Furnish installation certificate from equipment manufacturer's representative attesting equipment has been properly installed and is ready for startup and testing.

3.4 DEMONSTRATION

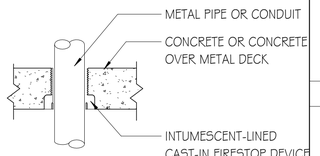
A. Section 01 70 00 – Execution and Closeout Requirements: Requirements for demonstration and training.

B. Demonstrate equipment startup, shutdown, routine maintenance, and emergency repair procedures to Owner's personnel.

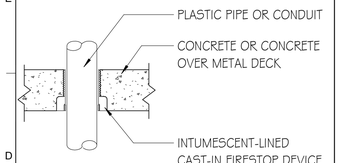
END OF SECTION 46 41 34



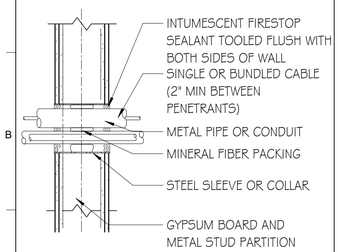
INSULATED METAL PIPE THRU CONC, OR CONC ON METAL DECK		
	A	F-A-5015
	B	F-A-5029
	C	F-A-5041



SINGLE UNINSULATED METAL PIPE THRU CONC OVER METAL FLOOR		
	A	F-A-1017
	B	F-A-1067
	C	F-A-1110

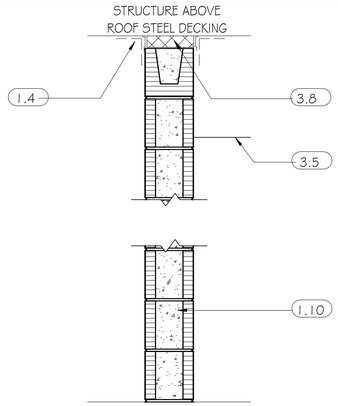


SINGLE NONMETALLIC PIPE THRU CONCRETE OVER METAL FLOOR		
	A	F-A-2054
	B	F-A-2097
	C	F-A-2192



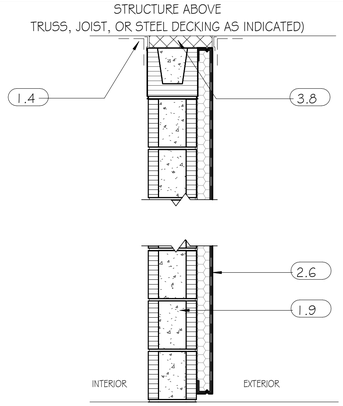
MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION		
	A	W-L-8079
	B	W-L-8010
	C	W-L-8026

STRUCTURE ABOVE
ROOF STEEL DECKING



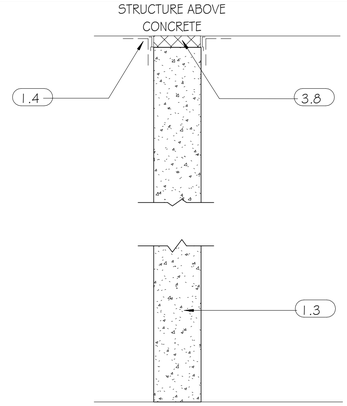
DRAWING MARK	DESCRIPTION	2M ONLY U.L. #	U905
0M	0 HR. - CMU	STC	50
1M	1 HR. - CMU		

STRUCTURE ABOVE
TRUSS, JOIST, OR STEEL DECKING AS INDICATED)



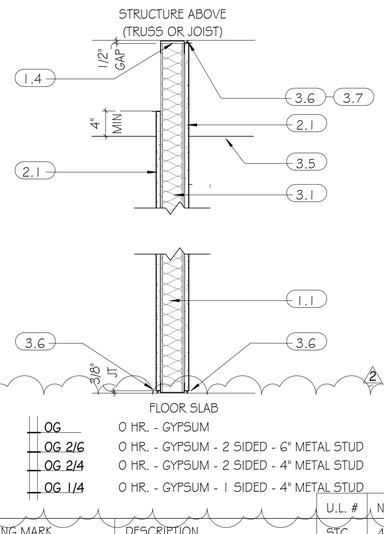
DRAWING MARK	DESCRIPTION	U.L. #	U905
1MEIFS	1 HR. - CMU - WITH EXTERIOR NONCOMBUSTIBLE CONTINUOUS INSULATION	STC	51

STRUCTURE ABOVE
CONCRETE



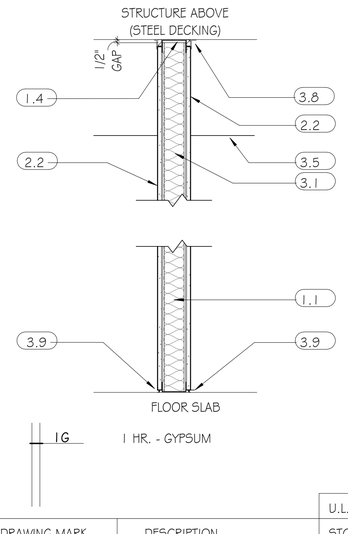
DRAWING MARK	DESCRIPTION	U.L. #	U905
CON	SOLID CONCRETE- COORDINATE WITH STRUCTURAL DRAWINGS	STC	51

STRUCTURE ABOVE
(TRUSS OR JOIST)



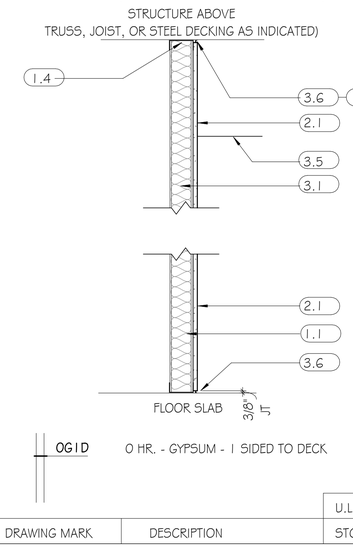
DRAWING MARK	DESCRIPTION	U.L. #	N/A
0G	0 HR. - GYPSUM	STC	47
0G 2/6	0 HR. - GYPSUM - 2 SIDED - 6" METAL STUD		
0G 2/4	0 HR. - GYPSUM - 2 SIDED - 4" METAL STUD		
0G 1/4	0 HR. - GYPSUM - 1 SIDED - 4" METAL STUD		

STRUCTURE ABOVE
(STEEL DECKING)



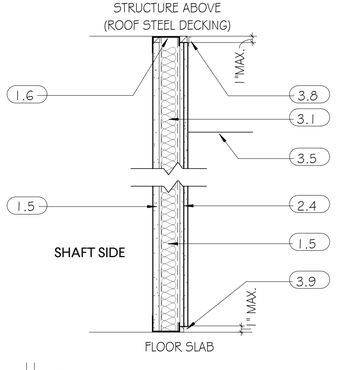
DRAWING MARK	DESCRIPTION	U.L. #	U465
1G	1 HR. - GYPSUM	STC	49

STRUCTURE ABOVE
TRUSS, JOIST, OR STEEL DECKING AS INDICATED)

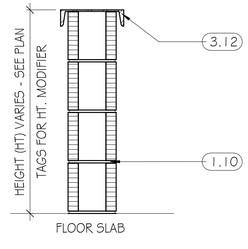


DRAWING MARK	DESCRIPTION	U.L. #	----
0G1D	0 HR. - GYPSUM - 1 SIDED TO DECK	STC	--

STRUCTURE ABOVE
(ROOF STEEL DECKING)



DRAWING MARK	DESCRIPTION	U.L. #	U497
1S	1 HR. - SHAFTWALL	STC	52
1SS	1 HR. - SHAFTWALL - SMOKE BARRIER		



DRAWING MARK	DESCRIPTION	U.L. #	N/A
0MP /HT	0 HR. - CMU - PARTIAL PARTITION HEIGHT	STC	--

NUMBERED NOTES

1.1 METAL STUDS 16" OC. DOUBLE-STUD JAMBS FULL HT. AT DOOR OPENINGS

1.2 CONCRETE PARTIAL WALL (CONTAINMENT CURB) WITH CHAMFERED EDGES

1.3 CONCRETE WALL

1.4 DEFLECTION TRACK (0.0329" MTL. THICKNESS). MAINTAIN MIN. 1/2" STUD GAP

1.5 1-HOUR FIRE RATED CAVITY SHAFTWALL EXP SHAFTLINER OR APPROVED EQUAL

1.6 J-TRACK, C-T, C-H OR I STUD SPACED @ 24" O.C.

1.9 SPLIT FACED CMU (UL LISTED WHERE APPLICABLE). SEE STRUCTURAL FOR REINFORCING, LINTEL, AND TOP BRACING REQUIREMENTS

1.10 CMU (UL LISTED WHERE APPLICABLE). SEE STRUCTURAL FOR REINFORCING, LINTEL, AND TOP BRACING REQUIREMENTS

2.1 ONE LAYER 5/8 IN. GYP. BD

2.2 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD

2.4 5/8" FIRE SHIELD "TYPE X" 2 LAYERS GYPSUM BOARD

2.5 NOT USED

2.6 EXTERIOR NONCOMBUSTIBLE CONTINUOUS INSULATION FINISH SYSTEM (EIFS) OVER AIR AND WATER-RESISTIVE BARRIER WITH REINFORCING MESH OVER, BASE COAT OVER, PRIMER OVER, FINISH COAT; STOTHERM CI MINERAL OR APPROVED EQUAL

3.1 SOUND ATTENUATION BATT INSULATION. 3.5" THICK

3.5 ACOUSTICAL CEILING PANELS. WHERE PANELS W/ COMBINED NRC/CAC RATINGS OF .70/35 (OR BETTER) ARE USED, DRAPED INSULATION MAY BE OMITTED

3.6 ACOUSTICAL SEALANT JOINT. PROVIDE CONT. BEAD UNDER EACH LAYER GYP BD

3.7 ACOUSTICAL SEALANT JOINT. AT FLUTED DECKS, COPE GYP. BD. TO UNDERSIDE OF DECK. FILL VOIDS W/ INSULATION. APPLY ACOUSTICAL SEALANT CONT. AT JOINT

3.8 UL LISTED FIRE-RESISTANCE RATED HW (HEAD OF WALL) JOINT

3.9 UL LISTED FIRE-RESISTANCE RATED BW (BOTTOM OF WALL) JOINT

PARTITION KEY

TYPE 1G 3 5/8" METAL STUDS	1G	1G 6"	TYPE 1G 6" METAL STUDS
TYPE 1S 4" METAL CH STUDS	1S	1S 2.5"	TYPE 1S 2.5" METAL CH STUDS
TYPE 0M 8" CMU	0M	0M 4"	TYPE 0M 4" CMU
TYPICAL PARTITION (SHOWN THUS)		VARIANT PARTITION (SHOWN THUS)	

STANDARD FRAMING
- 3 5/8" METAL STUDS
- 4" METAL CH STUDS
- 8" CMU

PARTITIONS TO BE STANDARD FRAMING EXCEPT WHERE VARIANT FRAMING SIZE IS INDICATED

VARIANT FRAMING
- WHERE APPLICABLE, SIZE IS SHOWN IN INCHES BELOW PARTITION TYPE

GENERAL NOTES - PARTITIONS

1. UL LISTED ASSEMBLIES
   - A. WHERE UL ASSEMBLY NUMBERS ARE REFERENCED ABOVE, PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS SET FORTH BY THE UL FIRE RESISTANCE DIRECTORY. SEE UL ASSEMBLY DRAWINGS (BEGINNING WITH DRAWING G1.23) FOR DETAILED UL ASSEMBLY REQUIREMENTS. NO DEVIATION SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT.

2. FIRE BARRIERS, FIRE PARTITIONS, & SMOKE BARRIERS [FIRE-RATED]
   - A. ALL PERIMETER JOINTS MUST BE PROTECTED BY UL LISTED FIRE-RESISTANT JOINT SYSTEMS.
   - B. ALL PENETRATIONS OF RATED ASSEMBLIES MUST BE PROTECTED BY UL LISTED THROUGH-PENETRATION FIRESTOPPING ASSEMBLIES.
   - C. FIRE DAMPERS MUST PROTECT HVAC DUCT PENETRATIONS.
   - D. IDENTIFY FIRE WALLS, SMOKE BARRIERS, ETC., IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, WITH STENCILED LETTERING IN COMPLIANCE WITH GENERAL NOTE 9.08 FIRE-RATED PARTITIONS AND FIRE-RATED SMOKE BARRIER IDENTIFICATION ON DRAWING G1.02, GENERAL NOTES.

3. SMOKE PARTITIONS [NON-RATED]
   - A. ALL SMOKE PARTITIONS SHALL BE CONSTRUCTED SO AS TO RESIST THE PASSAGE OF SMOKE AND SHALL MEET THE CONTINUITY REQUIREMENTS DEFINED BY IBC 710.4
   - B. ALL PERIMETER JOINTS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
   - C. ALL PIPING, ELECTRICAL, AND DUCT PENETRATIONS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.

4. SOUND INSULATION
   - A. INSULATION THICKNESS SHALL MATCH CAVITY DEPTH UNLESS NOTED OTHERWISE.
   - B. INSULATE BEHIND RECESSED ITEMS IN ANY SCHEDULED ACOUSTIC PARTITIONS.

5. ACOUSTICAL SEALANT
   - A. AT ALL GYP BOARD AND METAL STUD PARTITIONS: REQUIRED AT BOTTOM AND TOP RUNNERS AND AT WALL ANGLES WHERE DISSIMILAR MATERIALS MEET (SEE DETAILS).
   - B. AT SCHEDULED ACOUSTIC PARTITIONS: AIRTIGHT SEAL IS REQUIRED AT ALL PENETRATIONS.
   - C. ELECTRICAL AND OTHER BOXES TO BE WRAP-SEALED (SEE DETAILS).

6. PARTITION COORDINATION WITH OTHER TRADES
   - A. GENERAL CONTRACTOR AND SUBCONTRACTORS MUST COMPLY WITH GENERAL NOTE 9.07, PARTITION COORDINATION WITH OTHER TRADES ON DRAWING G1.02, GENERAL NOTES.

IMPORTANT NOTE

1. GENERAL NOTE REGARDING THE USE OF THIS DRAWING
   - A. THIS DRAWING ILLUSTRATES THE FULL ARRAY OF STANDARD PARTITION TYPES USED BY GMC AND IS INTENDED TO BE PUBLSHED IN ITS ENTIRETY FOR REFERENCE .....HOWEVER,....BE ADVISED THAT NOT ALL PARTITION TYPES SHOWN ON THIS DRAWING WILL BE USED IN EVERY PROJECT.
   - B. PARTITION TYPES USED IN THIS PROJECT ARE AS TAGGED AND/OR AS NOTED ON THE FLOOR PLANS.
   - C. DO NOT SPEND TIME SEARCHING FOR UNUSED PARTITION TYPES ON THE FLOOR PLANS AS YOU WILL NOT FIND THEM.

GMC
11 North Water Street
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1" 0" .5" 1"

ISSUE	DATE
Bid Set	10.31.2025
2 Addendum #02	02.04.2026

Drawn By: HS, VR

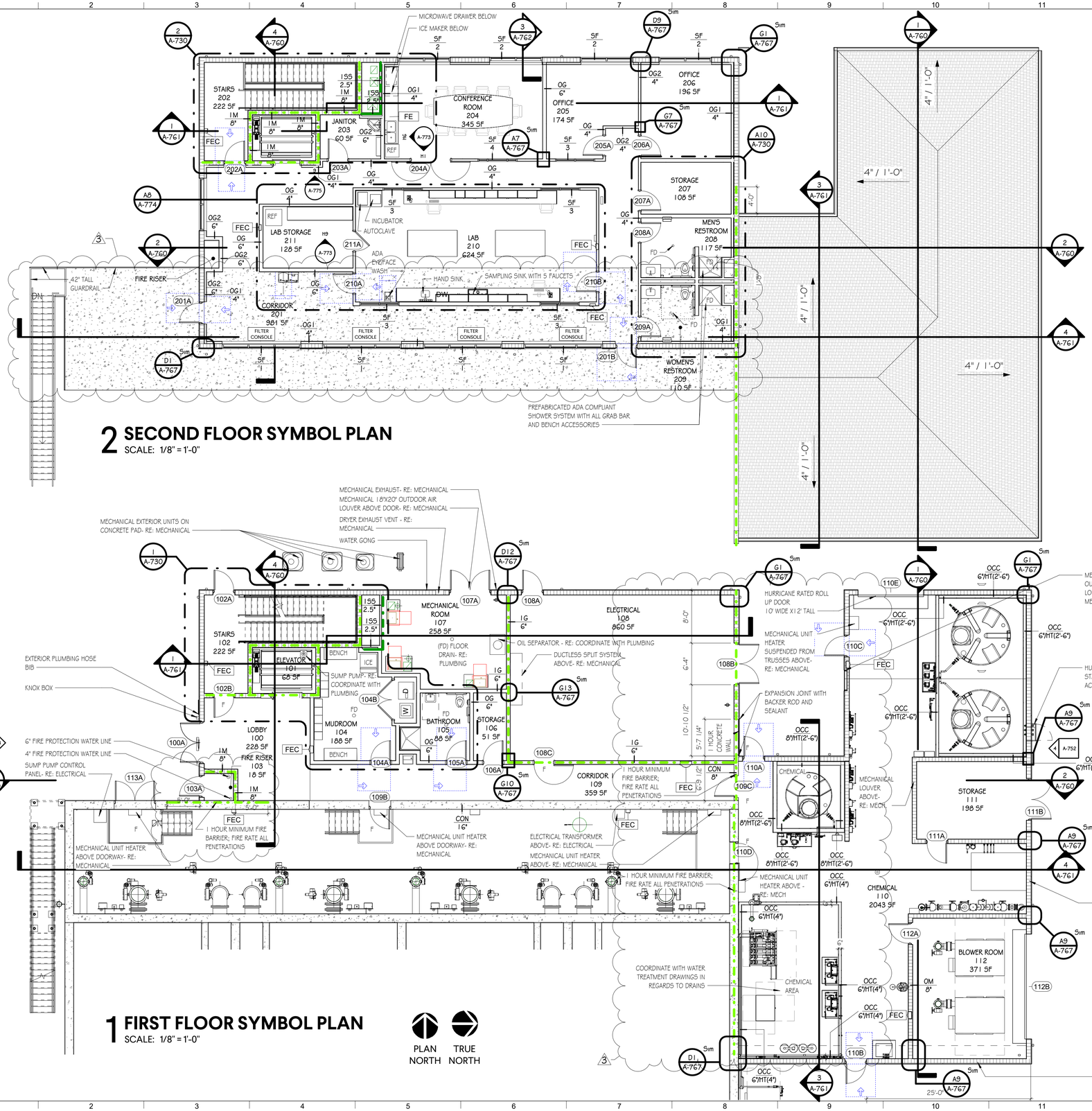
ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA
GOODWYN MILLS & CAWOOD
595
James B. Walker
MOBILE ALABAMA
REGISTERED ARCHITECT

PARTITION TYPES

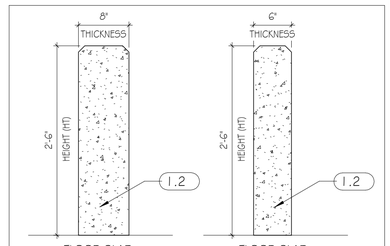
A-707



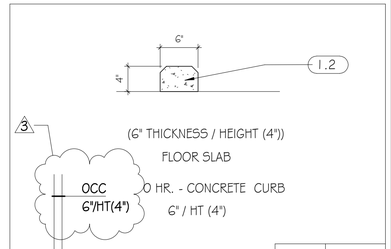
2 SECOND FLOOR SYMBOL PLAN
SCALE: 1/8" = 1'-0"

1 FIRST FLOOR SYMBOL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH TRUE NORTH



DRAWING MARK	DESCRIPTION	U.L. #	N/A
		STC	--



DRAWING MARK	DESCRIPTION	U.L. #	N/A
		STC	--

GENERAL NOTES - FLOOR PLAN:

1. DO NOT SCALE DRAWINGS. THE GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS RESULTING FROM THE SCALING OF DRAWINGS. PRIOR TO BID, THE GC SHALL REVIEW AND COORDINATE THE ENTIRE SET OF CONTRACT DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, THE GC SHALL OBTAIN CLARIFICATION IN WRITING FROM THE ARCHITECT BEFORE CONTINUING WITH WORK.
2. GC SHALL COORDINATE CIVIL, LANDSCAPE (IF APPLICABLE) STRUCTURAL, ARCHITECTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND ANY AUDIOVISUAL; AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES WITH FLOOR PLANS, ENLARGED PLANS, ELEVATIONS, DETAILS, ETC., PRIOR TO SUBMITTING A BID. THE GC SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS RESULTING FROM NOT COORDINATING THE ENTIRE SET OF CONTRACT DOCUMENTS.
3. GC SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND/OR DIMENSIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK IN THE EFFECTED AREA.
4. GC SHALL COORDINATE EXACT SIZE AND FINAL LOCATION OF ALL STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND AUDIOVISUAL (IF APPLICABLE) REQUIREMENTS WITH THE APPROPRIATE SUB-CONTRACTOR PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK IN THE EFFECTED AREA.
5. ALL DIMENSIONS SHOWN AT:
-METAL STUD WALLS ARE TO THE CENTERLINE OF FRAMING, U.N.O.
-CMU WALLS ARE TO THE FACE OF CMU, U.N.O.
(U.N.O. - UNLESS NOTED OTHERWISE)
6. GC SHALL PROVIDE AND INSTALL ANY REQUIRED IN-WALL FIRE-RETARDANT TREATED BLOCKING WHERE REQUIRED. IN WET AREAS, I.E. RESTROOMS BLOCKING SHALL BE PRESSURE TREATED.
7. PROVIDE AND INSTALL MANUFACTURERED RECOMMENDED SEALER AROUND SINK.

GMC
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ISSUE | DATE
Bid Set | 10.31.2025
3 Addendum #03 | 02.13.2026
Drawn By: HS, VR

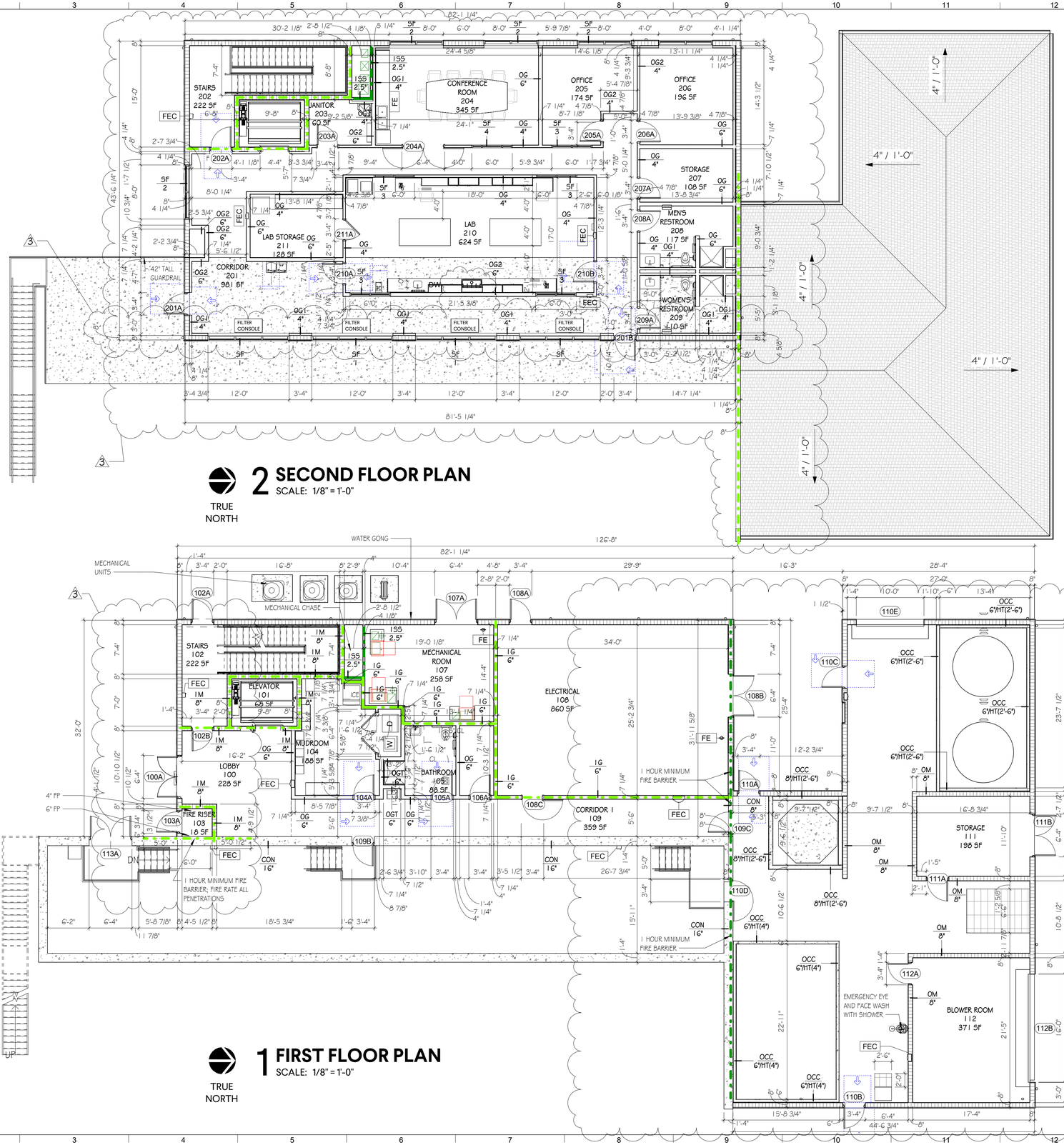
ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA · GOODWYN MILLS & CAWOOD · 26595 · James R. Walker · MOBILE, ALABAMA · REGISTERED ARCHITECT

SYMBOL FLOOR PLANS

A-721



2 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

TRUE NORTH

1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

TRUE NORTH

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   -CMU WALLS ARE TO THE FACE OF CMU, U.N.O.
   (U.N.O. - UNLESS NOTED OTHERWISE)
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7. PROVIDE AND INSTALL MANUFACTURERED RECOMMENDED SEALER AROUND SINK.

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1" / 5" / 0"

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Drawn By: HS, VR

ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

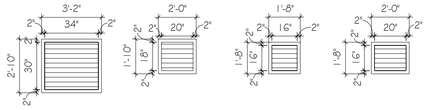
PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA
GOODWYN MILLS & CAWOOD
5955
James B. Walker
MOBILE, ALABAMA
REGISTERED ARCHITECT

DIMENSION FLOOR PLANS

A-722

LOUVER ELEVATIONS



30" X 34" OUTDOOR AIR LOUVER | 18" X 20" OUTDOOR AIR LOUVER | 16" X 16" OUTDOOR AIR LOUVER | 16" X20" OUTDOOR AIR LOUVER

MECHNICAL NOTE 14 : EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DO NOT INCLUDE FRAME OR FLANGES.

DOOR SCHEDULE

LOCATION		SIZE			DOOR			FRAME		DETAILS			OVERALL	HARDWARE				OVERALL	
														ELEC. COORD.					
DOOR NUMBER	ROOM NAME	WIDTH	HT	THK	DOOR TYPE	MAT'L	GLASS OR LOUVER TYPE	FRAME TYPE	MAT'L	HEAD	JAMB	SILL	FIRE RATING	HOLD OPEN	FIRE ALARM INTERFACE	ACCESS CONTROL	HARDWARE SET NO.	NUMBERED NOTES	HARDWARE TYPES
100A	LOBBY	6' - 0"	7' - 0"	13/4"	HG	GHM	IG1	F13	GHM	1/A-772	2/A-772	3/A-772				YES	E01	1, 5, 6	EXTERIOR
102A	STAIRS	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772	3/A-772				YES	E04	1, 5, 6 3	EXTERIOR
102B	STAIRS	3' - 0"	7' - 0"	13/4"	F	HM	-	F13	HM	10/A-772	11/A-772	12/A-772	60 MIN				01	2	STAIR
103A	FIRE RISER	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772	3/A-772 3				YES	E03	1	EXTERIOR
104A	MUDROOM	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						06		RESTROOM
104B	MUDROOM	6' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						04		CLOSET
105A	BATHROOM	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						05		RESTROOM
106A	STORAGE	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						07		STORAGE
107A	MECHANICAL ROOM	6' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772	3/A-772				YES	E02	1, 5, 6	EXTERIOR
108A	ELECTRICAL	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772	3/A-772				YES	E04	1, 5, 6	EXTERIOR
108B	ELECTRICAL	6' - 0"	7' - 0"	13/4"	F	GHM		F1	GHM	1/A-772	2/A-772		60 MIN	3		YES	E02.1 3	1, 5, 6, 2 3	EXTERIOR
108C	CORRIDOR 1	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772		60 MIN				12	2, 6	INTERIOR FIRE
109B	CORRIDOR 1	3' - 0"	7' - 0"	13/4"	HG	GHM	G4	F13	GHM	4/A-772	5/A-772	6/A-772	60 MIN				01	2	INTERIOR FIRE
109C	CORRIDOR 1	3' - 0"	7' - 0"	13/4"	HG	GHM	G4	F13	GHM	4/A-772	5/A-772	6/A-772	60 MIN				01	2	INTERIOR FIRE
110A	CHEMICAL	3' - 0"	7' - 0"	13/4"	F	GHM		F13	GHM	1/A-772	2/A-772		60 MIN			YES	E05	1, 2, 5, 6	EXTERIOR FIRE
110B	CHEMICAL	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772					YES	E04	1, 5, 6 3	EXTERIOR
110C	CHEMICAL	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	1/A-772	2/A-772					YES	E04	1, 5, 6	EXTERIOR
110D	CHEMICAL	3' - 0"	7' - 0"	13/4"	HG	GHM	G4	F13	GHM	4/A-772	5/A-772	6/A-772	60 MIN				01	2, 180 DEGREE SWING	INTERIOR FIRE
110E	CHEMICAL	10' - 0"	12' - 0"	3"	RS	ALUM	-	OH	ALUM	7/A-772	8/A-772	9/A-772					13	3	EXTERIOR OH
111A	CHEMICAL	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	10/A-772	11/A-772						08		INTERIOR CMU
111B	STORAGE	6' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	7/A-772	8/A-772	9/A-772					13	1	EXTERIOR OH
112A	CHEMICAL	3' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	10/A-772	11/A-772						08		INTERIOR CMU
112B	BLOWER ROOM	16' - 0"	10' - 0"	3"	RS	ALUM	-	OH	ALUM	7/A-772	8/A-772	9/A-772					13	3	EXTERIOR OH
113A	PUMP ROOM	6' - 0"	7' - 0"	13/4"	F	GHM	-	F13	GHM	4/A-772	5/A-772	6/A-772				YES	E02	1, 5, 6	EXTERIOR
201A	CORRIDOR	3' - 0"	7' - 0"	13/4"	HG	GHM	IG1	F13	GHM	4/A-772	5/A-772	6/A-772				YES	E04	1, 5, 6	EXTERIOR
201B	CORRIDOR	3' - 0"	7' - 0"	13/4"	HG	GHM	IG1	F13	GHM	4/A-772	5/A-772	6/A-772 3				YES	E04	1, 5, 6 3	EXTERIOR
202A	STAIRS	3' - 0"	7' - 0"	13/4"	F	HM	-	F13	HM	10/A-772	11/A-772	12/A-772	60 MIN				01	2, 6	INTERIOR FIRE
203A	JANITOR	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						06		STOREROOM
204A	CONFERENCE ROOM	6' - 0"	7' - 0"	13/4"	FG	HM	G2	F1	HM	13/A-772	14/A-772	3/A-802					03	4	BREAKROOM
205A	OFFICE	3' - 0"	7' - 0"	13/4"	N	HM	G2	F1	HM	13/A-772	14/A-772						02		OFFICE
206A	OFFICE	3' - 0"	7' - 0"	13/4"	N	HM	G2	F1	HM	13/A-772	14/A-772						02		OFFICE
207A	STORAGE	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						07		STORAGE
208A	MEN'S RESTROOM	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						05		RESTROOM
209A	WOMEN'S RESTROOM	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772						05		RESTROOM
3 210A	CORRIDOR	3' - 0"	7' - 0"	13/4"	HG	HM	G2	F1	HM	13/A-772	14/A-772						09		LAB
210B	LAB	3' - 0"	7' - 0"	13/4"	HG	HM	G2	F1	HM	13/A-772	14/A-772						10		LAB
211A	LAB	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM	13/A-772	14/A-772	3/A-802					11		STORAGE

DOOR NUMBERED NOTES

01 HURRICANE IMPACT RATED EXTERIOR DOOR SYSTEM

3 02 FIRE RATED DOOR SYSTEM WITH ASSOCIATED FIRE RATED DOOR HARDWARE SYSTEM. ALL RATED DOORS SHALL BE PROVIDED WITH SMOKE SEALS AND FIRE RATED HARDWARE.

03 HURRICANE IMPACT RATED OVERHEAD COILING DOOR SYSTEM

04 180 DEGREE DOOR SWING HINGES

05 ACCESS CONTROL CARD READER SYSTEM, FULLY OPERATIONAL

3 06 PANIC EXIT HARDWARE

DOOR GENERAL NOTES

1) DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.
A. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE. WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS. SEE SPECIFICATIONS)
B. ALL DOORS IN A 1 HOUR FIRE RATED WALL SHALL BE A 1 HOUR DOOR.
C. SECURE DOORS TO RECEIVE ACCESS CONTROL DEVICE AND POWER. AND REFER TO HARDWARE SCHEDULE.
D. ALL EXTERIOR DOORS SHALL BE HURRICANE RESISTANT DOORS.

2) MATERIAL AND FINISH:
A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:

HM	HOLLOW METAL
ST	STEEL
ST/S	STEEL / STAINLESS OR STAINLESS CLAD
WD	SOLID CORE WOOD
WD/PL	WOOD / PLASTIC LAMINATE FACED
WD/IR	WOOD / IMPACT-RESISTANT VINYL-FACED
AL	ALUMINUM
GL	GLAZING/GLASS
PREFIN	PREFINISHED (OR FACTORY FINISHED)
PNT	PAINTED
STN	STAINED

3) GLASS:
A. GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTIONS 08 8000 "GLAZING" & 13 4900 "RADIATION PROTECTION"):

MONOLITHIC:

G1	CLEAR, TEMPERED, SAFETY GLAZING
G2	CLEAR, LAMINATED, INTERLAYER COLOR, SAFETY GLAZING: CLEAR
G4	CLEAR, FIRE-RATED CERAMIC GLAZING, MATCH RATING OF OPENING

INSULATING:

IG1	INSULATING, VISION LITE - HURRICANE IMPACT RESISTANT

4) LOUVERS:
A. DOOR LOUVER TYPES INDICATION ON THE SCHEDULE ARE AS FOLLOWS:
L1 A" W X B" H, SIGHT PROOF, WEATHER RESISTANT, WITH INSECT SCREEN
L2 A" W X B" H, LIGHT PROOF
5) DOOR HARDWARE:
A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 08 7100 "DOOR HARDWARE".
B. PROVIDE PANIC HARDWARE. REFER TO THE HARDWARE SCHEDULE.
C. HARDWARE SETS DENOTED WITH AN "E" MEANS IT REQUIRES ELECTRICAL WIRING COORDINATION FOR ACCESS CONTROL DEVICES.

GLASS SCHEDULE

GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTIONS 088000 "GLAZING"):

MONOLITHIC:

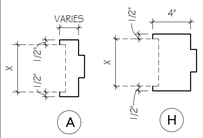
G1	CLEAR, TEMPERED, SAFETY GLAZING

INSULATING:

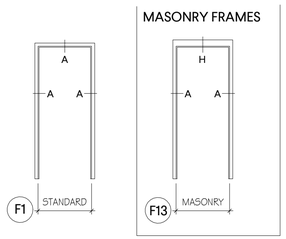
IG1	HURRICANE IMPACT RESISTANT INSULATING, SAFETY GLAZING, VISION LITE , GRAY TENT, REFER TO STRUCTURAL DRAWINGS FOR WIND SPEED

FRAME PROFILES

NOTE: X = THROAT DIMENSION /PARTITION THICKNESS

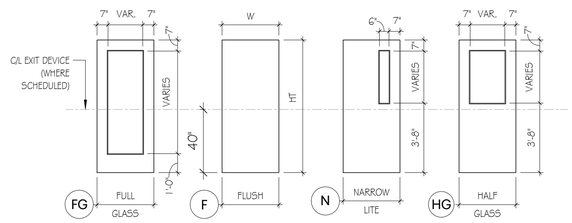


FRAME TYPES - HOLLOW METAL

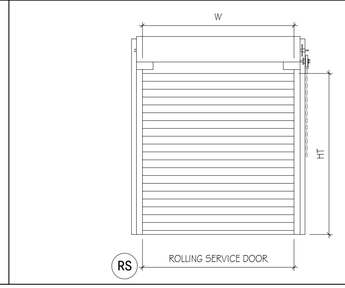


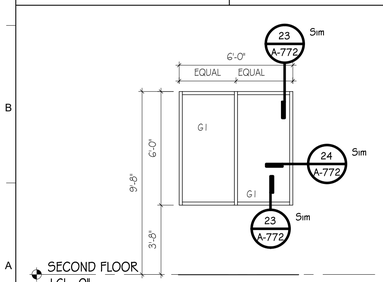
NOTE: ALL FRAMES TO BE FACE-WELDED EXCEPT WHERE NOTED "KD"

DOOR TYPES

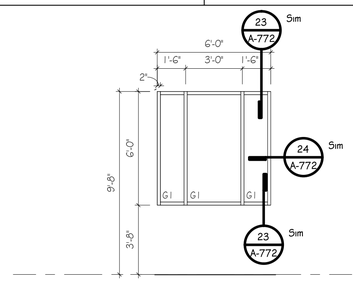


DOOR TYPES - SPECIALTY DOORS





1 INTERIOR STOREFRONT ELEV
SCALE: 1/4" = 1'-0"



3 INTERIOR STOREFRONT ELEV
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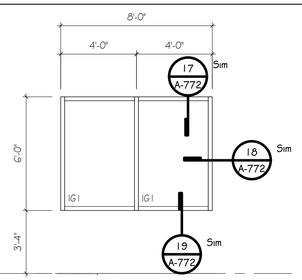

4 EXTERIOR STOREFRONT ELEV
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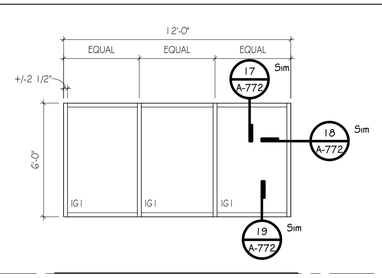

2 EXTERIOR STOREFRONT ELEV
SCALE: 1/4" = 1'-0"

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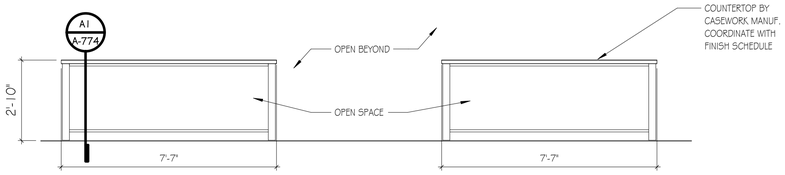
ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049
#AMOB240011

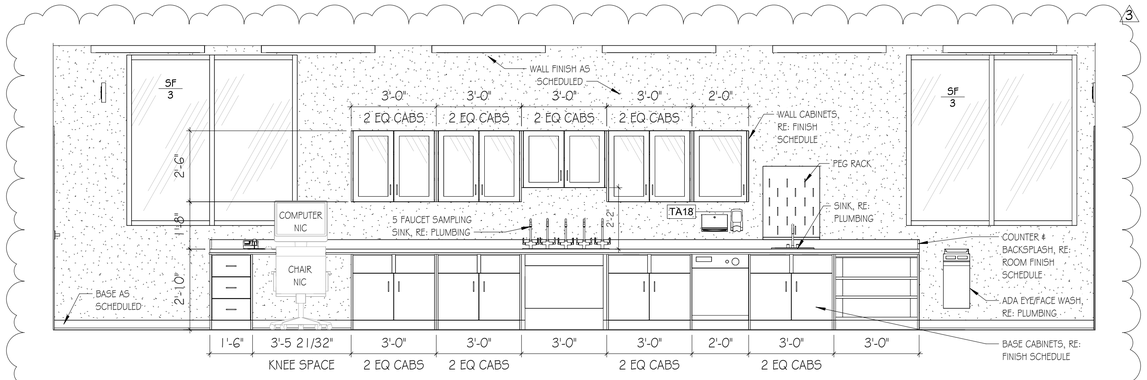
STATE OF ALABAMA
GOODWYN MILLS & CAWOOD
5955
James R. Walker
REGISTERED ARCHITECT
MOBILE, ALABAMA

DOOR SCHEDULE, LEGEND, & NOTES

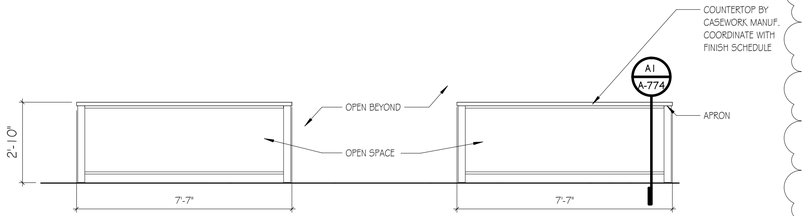
A-771



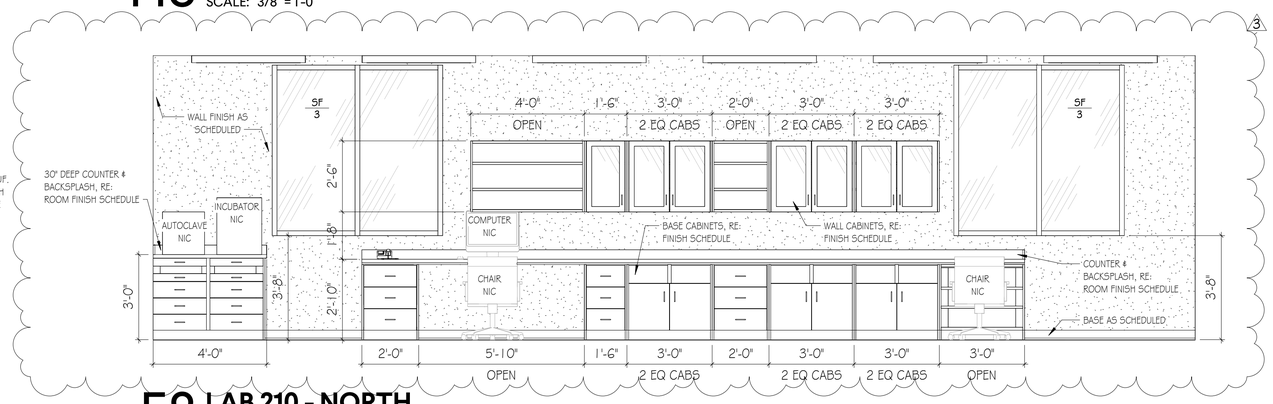
H2 LAB ISLAND - SOUTH VIEW
SCALE: 3/8" = 1'-0"



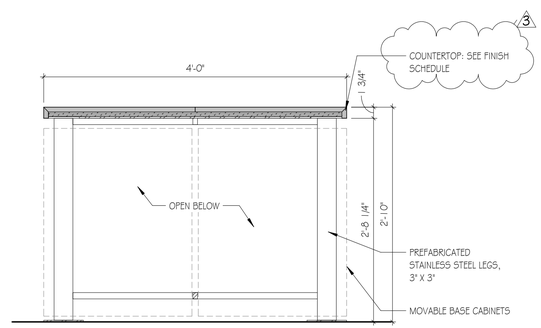
H8 LAB 210 - SOUTH
SCALE: 3/8" = 1'-0"



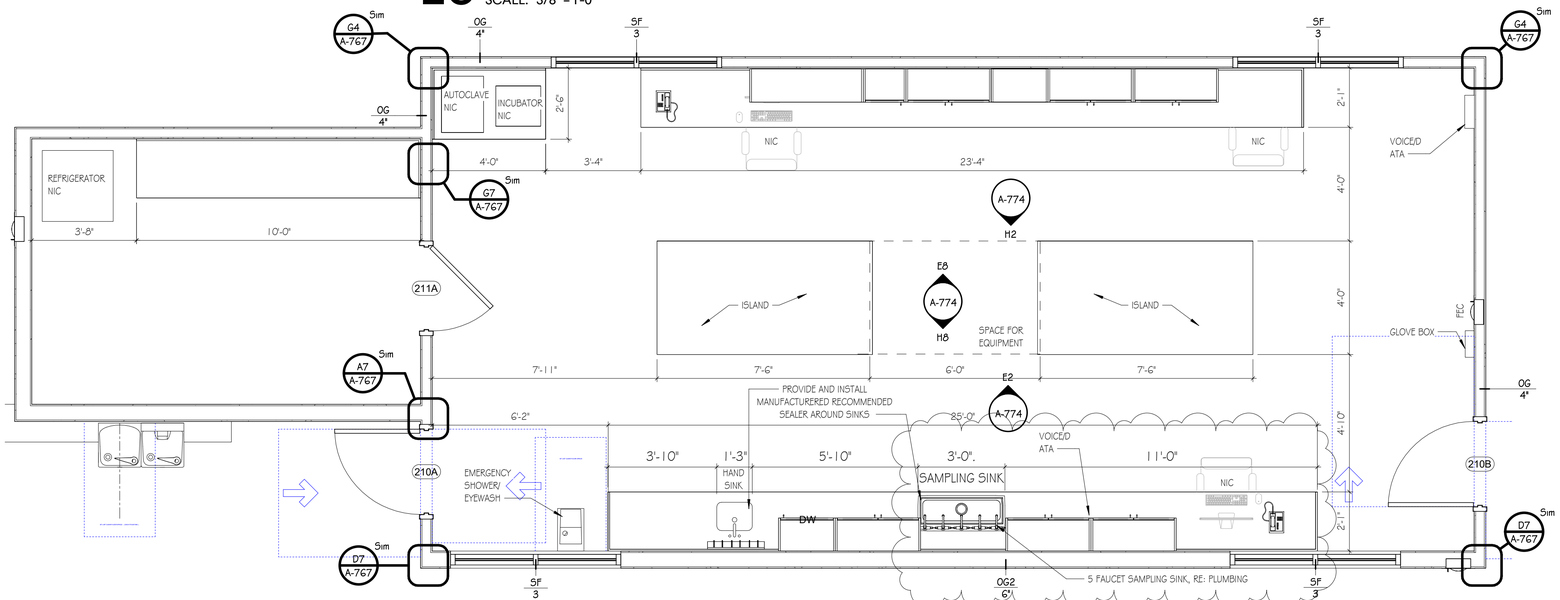
E2 LAB ISLAND - NORTH VIEW
SCALE: 3/8" = 1'-0"



E8 LAB 210 - NORTH
SCALE: 3/8" = 1'-0"



A1 LAB ISLAND - COUNTER SECTION
SCALE: 1" = 1'-0"



A8 ENLARGED LAB PLAN
SCALE: 3/8" = 1'-0"

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1" 0" 5" 1"

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ROSCOE ROAD WATER TREATMENT PLANT
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Foley, Alabama

PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA · GOODWYN MILLS & CAWOOD · 59551 · Vamae R. Walker · MOBILE, ALABAMA · REGISTERED ARCHITECT

LAB PLAN, ELEVATIONS, & DETAIL

A-774

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALL	MILLWORK/CASEWORK		COMMENTS
					CABINET	COUNTERTOP	
100	LOBBY	EF-1	RB-1	PNT-4			
101	ELEVATOR	LVT-1	RB-1	PER MANF.			
102	STAIRS	EF-1	RB-1	PNT-1			
103	FIRE RISER	EF-1	RB-1	PNT-1			
104	MUDROOM	EF-1	RB-1	PNT-1			
105	BATHROOM	EF-1	EB-1	PNT-1			
106	STORAGE	EF-1	RB-1	PNT-1			
107	MECHANICAL ROOM	EF-1	RB-1	PNT-1			
108	ELECTRICAL	EF-1	RB-1	PNT-1			
109	CORRIDOR 1	EF-1	RB-1	PNT-1			
109	CHEMICAL	EF-1	RB-1				
110	CHEMICAL	EF-2	EB-2	PNT-4			
110A	CHEMICAL	EF-1	RB-1	N/A			
110B	FIRE RISER	---					
111	STORAGE	EF-2	RB-1	PNT-1			
111B	FLUORIDE B	EF-1	RB-1	N/A			
112	BLOWER ROOM	EF-2	RB-1	PNT-1			
113	CHEMICAL AREA	EF-1	RB-1	N/A			
113	PUMP ROOM	EF-1	EB-1	PNT-4			
201	CORRIDOR	EF-1	RB-1	PNT-4			
202	STAIRS	EF-1	RB-1	PNT-1			
203	JANITOR	EF-1	RB-1	PNT-1			
204	CONFERENCE ROOM	LVT-1	RB-1	PNT-4	PL-2	SS-1	
205	OFFICE	LVT-1	RB-1	PNT-4			
206	OFFICE	LVT-1	RB-1	PNT-4			
207	STORAGE	EF-1	RB-1	PNT-1			
208	MEN'S RESTROOM	EF-1	EB-1	PNT-1	PL-1	SS-1	
209	WOMEN'S RESTROOM	EF-1	EB-1	PNT-1	PL-1	SS-1	
210	LAB	EF-1	EB-1	PNT-4	LAB CASEWORK- SEE SPECS	LAB CASEWORK- SEE SPECS	
211	LAB STORAGE	EF-1	RB-1	PNT-4		SS-1	

FINISH NOTES

FLOORS:

- REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN. CONTRACTOR MUST NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN

- ALL FLOORING TRANSITIONS INCLUDING TRANSITIONS TO SIMILAR MATERIAL OR REDUCER STRIPS AND OTHER THRESHOLDS TO DISSIMILAR MATERIAL SHALL BE LOCATED AT THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. COLORS SHALL BE SELECTED DURING SUBMITTAL REVIEW. REFER TO DETAILS FOR TRANSITIONS BETWEEN FLOORING MATERIALS. CONTRACTOR TO PROVIDE TRANSITION SIZES APPROPRIATE FOR THICKNESS

- AVOID ALL FLOORING MATERIAL SLIVER CUTS LESS THAN 4" WIDE @ WALL PERIMETERS & MATERIAL TRANSITIONS. CONTACT DESIGNER IF JOBSITE CONDITIONS DIFFER.

- INSTALL FLOORING CONTINUOUS UNDER ALL CASEWORK, MILLWORK, EQUIPMENT, & FURNITURE

WALLS:

- REFER TO FINISH PLANS & ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS

- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO BE PAINTED (PNT-2) UNLESS OTHERWISE NOTED

- ALL ACCESS PANELS AND MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON WALL SURFACES OR CEILING SURFACES TO BE PAINTED WALL OR CEILING COLOR U.N.O.

- WALL BASE TO BE INSTALLED ON ALL WALLS, MILLWORK, AND CASEWORK U.N.O.

- INSTALL FINISH STRIP EQUAL TO SCHLUTER "JOLLY" AT ALL EXPOSED TILE EDGES & CORNERS

MILLWORK / CASEWORK:

- INSTALL 3MM EDGEBAND ON ALL PLASTIC LAMINATE COUNTERTOPS AND CABINETS.

- ALL WINDOWS TO HAVE SOLID SURFACE (SS-1) SILL U.N.O.

- GROMMET LOCATIONS TO BE COORDINATED WITH OWNER

- FIELD VERIFY ALL DIMENSIONS FOR CASEWORK & MILLWORK PRIOR TO FABRICATION & INSTALLATION

- ALL EXPOSED ENDS AND EXPOSED INTERIORS OF CASEWORK/ MILLWORK TO RECEIVE MATCHING LAMINATES

- ALL CABINETS TO BE LOCKABLE WITH THE EXCEPTION OF UPPER & LOWER TYPICAL BREAK ROOM CABINETS. ALL TALL CABINETS & FILE DRAWERS TO BE LOCKABLE.

MISC:

- DO NOT PAINT DOOR LABELS AT RATED DOORS OR FRAMES.

- PROVIDE BLOCKING FOR ALL GRAB BARS AND TOILET ACCESSORIES

- REFER TO RCP FOR ACCENT PAINT COLOR LOCATIONS IN CEILING - WHERE CEILINGS ARE CALLED OUT TO BE PAINTED, BOTH CEILING AND SOFFIT/BULKHEAD WALLS ARE TO BE PAINTED ACCENT COLOR

- NON ADA TOILET FIXTURES SHALL BE CENTERED IN STALL

- CAULK ALL DOOR FRAMES, MILLWORK, AND VIEW WINDOW FRAMES AFTER WALLCOVERING INSTALLATION IS COMPLETE. COLOR OF CAULK TO MATCH ADJACENT FINISH.

MISC:

- GC TO PROVIDE SPECIFIED EXPANSION JOINT COVER AT ALL EXPOSED FINISH FLOOR, CEILING, AND WALL LOCATIONS

- ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHALL CHECK AVAILABILITY OF QUANTITIES AND DELIVERY DATES UPON NOTICE TO PROCEED. NO CONSIDERATION WILL BE GIVEN FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

RCP NOTES:

- ALL SPRINKLER HEADS IN FINISHED CEILINGS ALL SHALL BE CENTERED IN CEILING TILE. SPRINKLER HEADS SHALL NOT BE PAINTED.

- INTERIOR CEILING HEIGHTS SHALL BE AS INDICATED ON THE REFLECTED CEILING PLANS.

- ALL BULKHEADS TO BE 4" BELOW ADJACENT ACT CEILING UNLESS NOTED OTHERWISE

- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR, BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.

- IN EXPOSED CEILINGS (EXP-1) ALL EXPOSED ELEMENTS NOT LIMITED TO TRUSS SYSTEM, ACOUSTICAL DECK, DUCTWORK, CONDUIT, AND PIPING TO BE PAINTED

- ALL GYP CEILINGS TO BE PAINTED (PNT-3) UNLESS OTHERWISE NOTED IN RCP. BOTH CEILING AND SOFFIT /BULKHEAD SURFACES ARE TO BE PAINTED THE SAME COLOR.

- DO NOT INSTALL CEILING TILE LESS THAN 6" IN ANY DIRECTION - WHEN POSSIBLE CENTER TILE IN ROOM.

- AREAS WITH EXPOSED CEILINGS (EXP-2) SHALL HAVE CEILING PAINT COLOR EXTEND DOWN VERTICAL WALL SURFACE (24") - CONTRACTOR SHALL FIELD VERIFY EACH EXPOSED LOCATION WITH ARCHITECT AND OWNER PRIOR TO PAINTING.

FINISH LEGEND

FLOOR

NUMBER	TYPE	DETAIL DESCRIPTION
LVT-1	LUXURY VINYL TILE	MANUFACTURER: INTERFACE STYLE NAME: LEVEL SET COLLECTION NATURAL WOODGRAINS COLOR: BEECH C00901 SIZE: 9.845"X39.28" INSTALLATION: ASHLAR LOCATION: OFFICES & CONFERENCE RM
EF-1	EPOXY FLOORING	MANUFACTURER: TNEMEC STYLE NAME: STRATASHIELD COLOR: DECO-TREAD COLOR- CRYSTAL LOCATION: THROUGHOUT, UNO
EF-2	EPOXY FLOORING	MANUFACTURER: TNEMEC STYLE NAME: CHEMICAL RESISTANCE COATING FOR SECONDARY CONTAINMENT COLOR: 910 GRAPHITE LOCATION: CHEMICAL STORAGE ROOMS

BASE

NUMBER	TYPE	DETAIL DESCRIPTION
RB-1	RUBBER BASE	MANUFACTURER: TARKETT STYLE NAME: TRADITIONAL COLOR: CHARCOAL SIZE: 4" INSTALLATION: THROUGHOUT EXCEPT, RESTROOMS & LAB LOCATION: UNITS
EB-1	EPOXY BASE	MANUFACTURER: TNEMEC STYLE NAME: STRATASHIELD COLOR: DECO-TREAD COLOR- CRYSTAL SIZE: 6" FLASH COVE LOCATION: THROUGHOUT, UNO
EB-2	EPOXY BASE	MANUFACTURER: TNEMEC STYLE NAME: CHEMICAL RESISTANCE COATING FOR SECONDARY CONTAINMENT COLOR: 910 GRAPHITE SIZE: 6" FLASH COVE LOCATION: CHEMICAL STORAGE ROOMS

WALL

NUMBER	TYPE	DETAIL DESCRIPTION
PNT-1	[GENERAL/MAIN PAINT, EPOXY]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7006 EXTRA WHITE LOCATION: RESTROOMS AND BACK OF HOUSE
PNT-2	[TRIM PAINT, EPOXY]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7076 CYBERSPACE LOCATION: THROUGHOUT
PNT-3	[MAIN CEILING/SOFFIT PAINT, EPOXY]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7006 EXTRA WHITE LOCATION: THROUGOUT
PNT-4	[GENERAL PAINT, EPOXY]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW6491 OPEN AIR LOCATION: CORRIDORS, OFFICES, LAB, & CONFERENCE ROOM

MISC

NUMBER	TYPE	DETAIL DESCRIPTION
PL-1	PLASTIC LAMINATE [TYP. FACE]	MANUFACTURER: WILSONART COLOR: BRUSHED WALNUT Y0643 LOCATION: ROOMS WITH EF-1 THAT HAVE MILLWORK.
PL-2	PLASTIC LAMINATE [TYP FACE]	MANUFACTURER: WILSONART COLOR: SALENTINA NERO 1864 LOCATION: ROOMS WITH LVT-1 THAT HAVE MILLWORK.
SS-1	SOLID SURFACE [TYP TOP]	MANUFACTURER: CORIAN COLOR: GLACIER WHITE LOCATION: THROUGHOUT WHERE MILLWORK IS LOCATED.
TP-1	TOILET PARTITIONS	MANUFACTURER: SCRANTON STYLE NAME: HINY HIDERS MATERIAL: HDPE COLOR: SHALE FINISH: ORANGE PEEL LOCATION: RESTROOMS
CG-1	CORNER GUARDS	MANUFACTURER: IPC DOOR AND WALL PROTECTION SYSTEMS COLOR: STAINLESS STEEL FINISH: SATIN SIZE: 96"H LOCATION: SEE FINISH PLAN

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1" 0" .5" 1"

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ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
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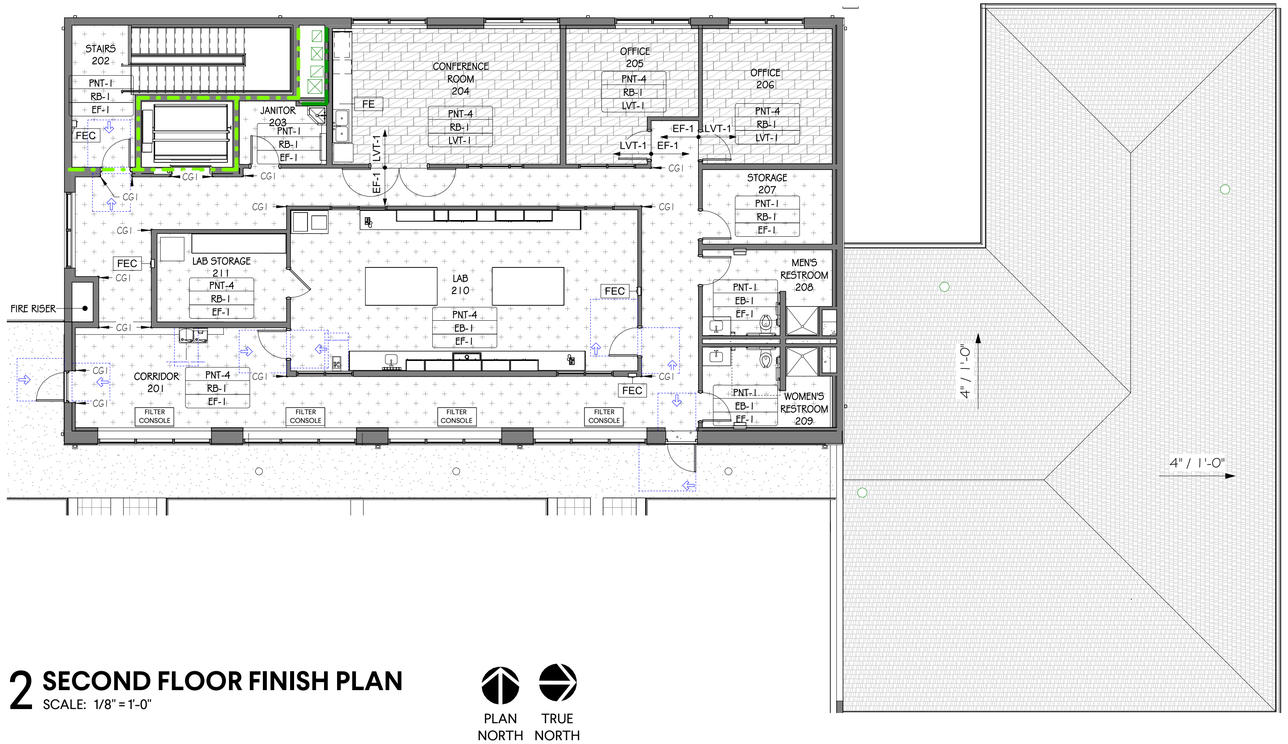
PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA
GOODWYN MILLS & CAWOOD
5955
James Walker
REGISTERED ARCHITECT
MOBILE, ALABAMA

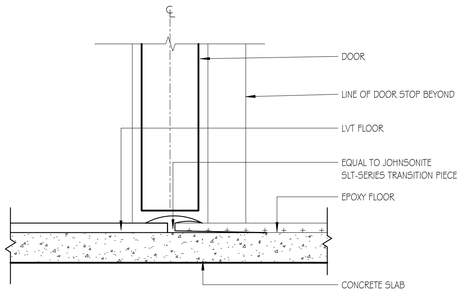
FINISH LEGEND & SCHEDULE

A-781

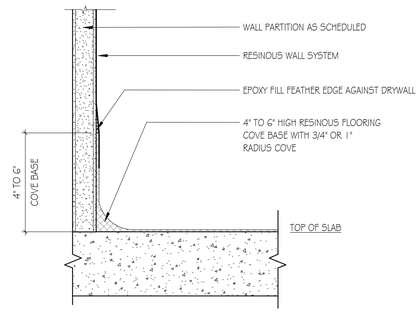


2 SECOND FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

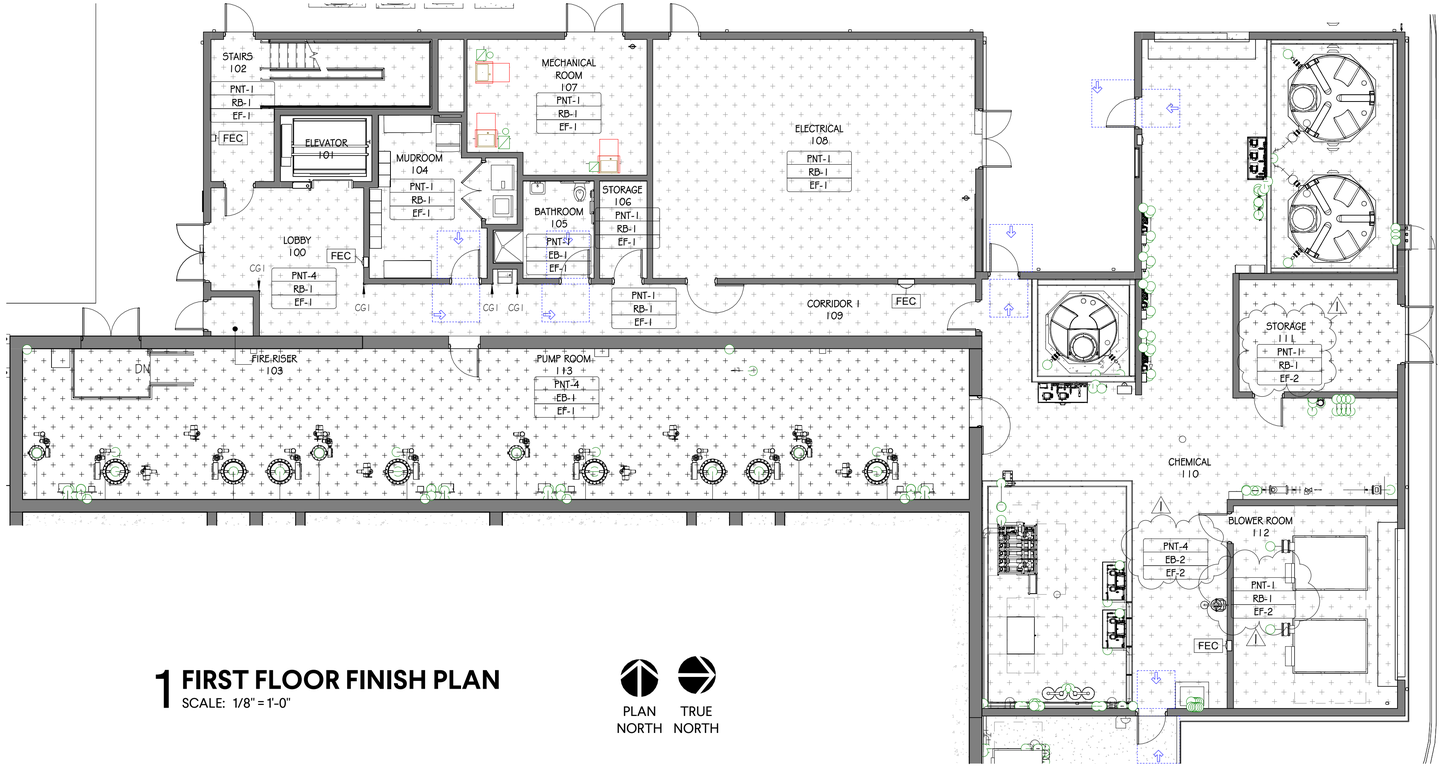
PLAN NORTH TRUE NORTH



3 FLOOR TRANSITION DETAIL - LVT-1 TO EF-1
SCALE: 12" = 1'-0"



4 DETAIL - INTEGRAL COVE BASE/WALL
SCALE: 6" = 1'-0"



1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES - FINISH PLAN

1. FURNITURE SHOWN FOR REFERENCE ONLY. NOT IN CONTRACT.
2. REFER TO FINISH LEGEND FOR PAINT COLORS CALLED OUT ON REFLECTED CEILING PLANS AND FINISH PLANS.
3. UNLESS OTHERWISE NOTED, ALL FLOOR TILE SHALL BE CENTERED IN ROOM.
4. UNLESS OTHERWISE NOTED, ALL CEILING GRID AND LIGHT FIXTURES SHALL BE CENTERED IN ROOM/OPENING.
5. CONTRACTOR TO REVIEW WITH ARCHITECT, ON SITE, AREAS WITH MULTIPLE CEILING, WALL, AND FLOOR FINISHES BEFORE FINISH WORK BEGINS.
6. REFER TO RCP LEGEND ON OVERALL REFLECTED CEILING PLANS FOR RCP ABBREVIATIONS AND FINISHES.
7. PROVIDE BLOCKING FOR GRAB BARS AND TOILET ACCESSORIES IN RESTROOMS.

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1" 0" .5" 1"

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1 Addendum #01 01.16.2026

Drawn By: HS, VR

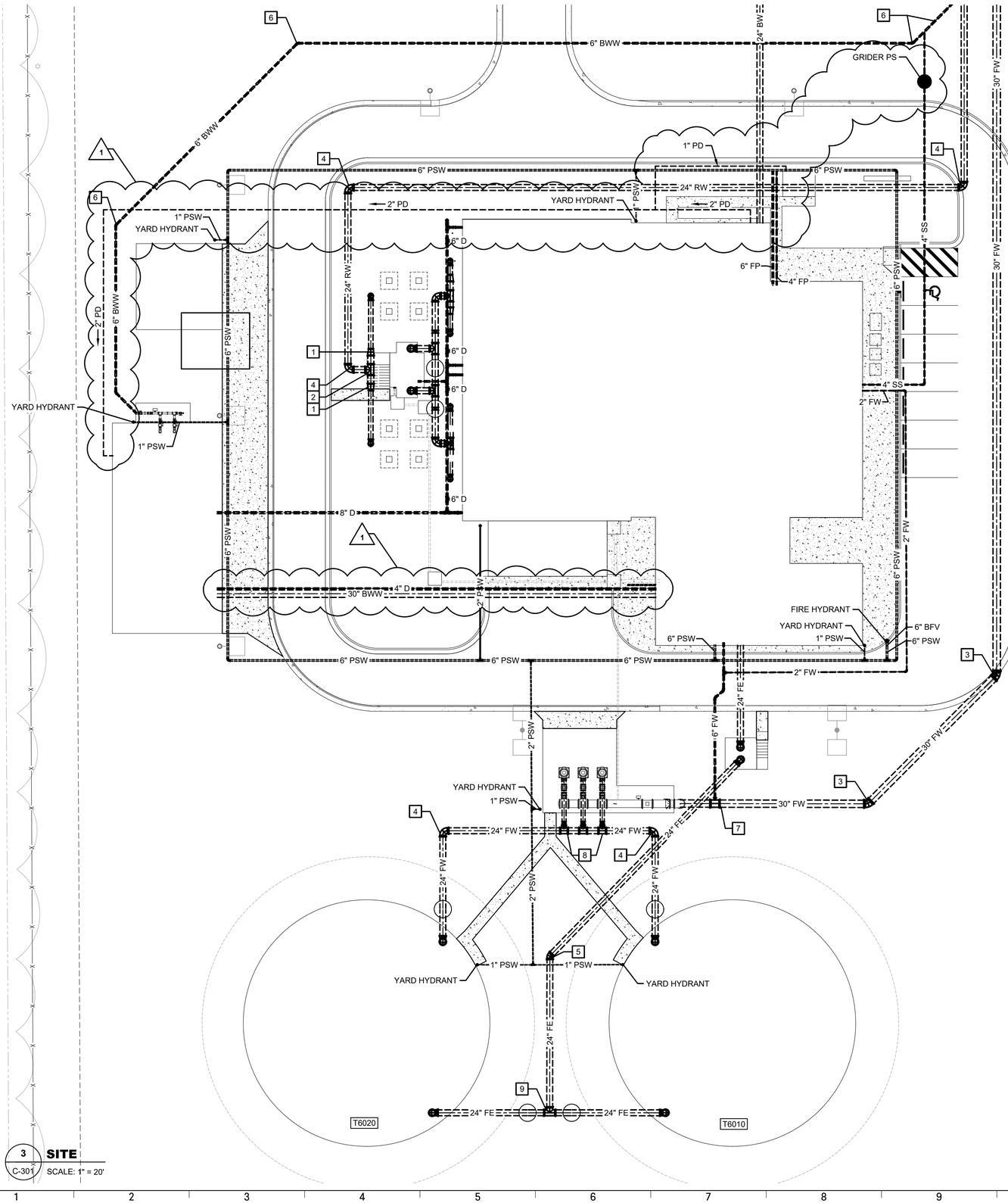
ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049
#AMOB240011

STATE OF ALABAMA · GOODWYN MILLS & CAWOOD · 5955 · James B. Walker · MOBILE, ALABAMA · REGISTERED ARCHITECT

FINISH PLAN

A-782



KEY NOTES:

1. 24" X 18" REDUCER (RESTRAINED)
2. 24" X 24" MJ TEE (RESTRAINED)
3. 30" MJ 45° BEND (RESTRAINED)
4. 24" MJ 90° BEND (RESTRAINED)
5. 24" MJ 45° BEND
6. 6" MJ 45° BEND (RESTRAINED)
7. 30" X 6" MJ TEE (RESTRAINED)
8. 24" X 20" MJ TEE
9. 24" X 24" MJ TEE

3 C-301 **SITE**
SCALE: 1" = 20'

GMC

11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006

1" 0" 5" 1"

ISSUE	DATE
60% Submittal	10.18.2024
90% Submittal	05.09.2025
Issued for Bid	10.31.2025
1 Addendum 3	02.16.2026

Project Manager:	DK
Engineer:	DT
Designer:	DT
Drawn By:	HKD

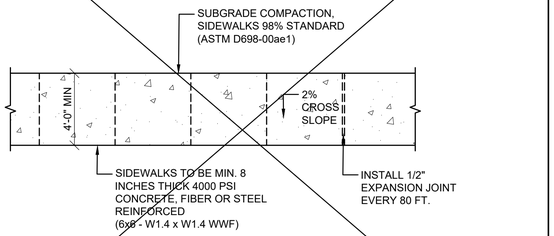
ROSCOE ROAD WATER
TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049

CIVIL SITE PLAN
ENLARGED YARD
PIPING

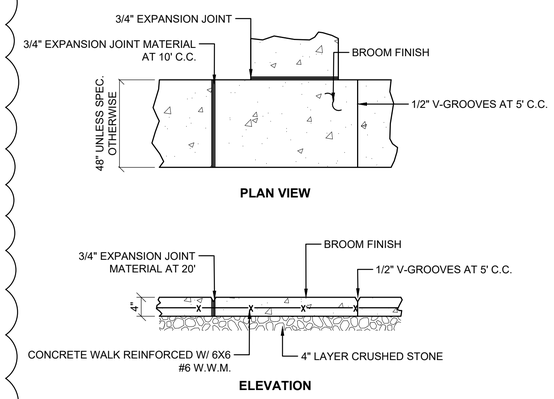
C-303

DRAWING FILE: T:\1 Projects\AL\Orange Beach Water Authority\CMOB230049 New Water Treatment Facility (WTF#2) at Roscoe Road\00 DWG\11 PLANS\02 SHEETS\03 Civil\C-301.dwg
PLOTTED: Feb 16, 2026 - 11:34am



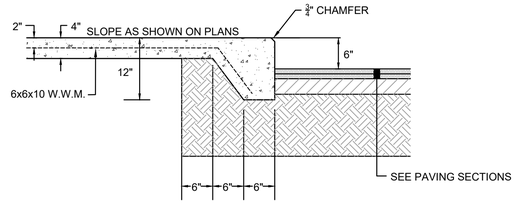
J C-902 **CONCRETE SIDEWALK**

SCALE: NOT TO SCALE



K C-902 **CONCRETE SIDEWALK**

SCALE: NOT TO SCALE



L C-902 **TURN DOWN SIDEWALK**

SCALE: NOT TO SCALE

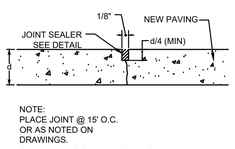
SIDEWALK NOTES:

1. SIDEWALK SHALL BE REINFORCED BY ONE OF THE FOLLOWING:
   a. WELDED WIRE MESH SHALL BE LOCATED 2" FROM THE TOP SURFACE OF CONCRETE, MINIMUM SIZE OF MESH SHALL BE 6"x6" - W2.9 x W2.9; OR
   b. CONCRETE SHALL BE FIBER REINFORCED.
2. DEFORMED REINFORCING BARS PROVIDING NO LESS THAN 0.25 SQUARE INCHES PER FOOT (EACH WAY).
3. SURFACE SHALL RECEIVE A MEDIUM BROOM FINISH.

FIXED BOLLARD NOTES:

1. FOUNDATION SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE BOLLARD IN A SET.
2. MAXIMUM BOLLARD SPACING IS 48".
3. PAINT SAFETY YELLOW
4. REBAR REQUIRED: 105LB
5. IN FOUNDATION PARTS ARE FINISHED W/ EPOXY

1



SAWED CONTROL JOINT DETAIL

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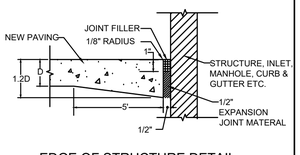

EDGE OF STRUCTURE DETAIL

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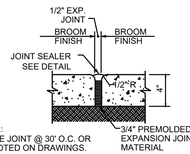

EXPANSION JOINT DETAIL

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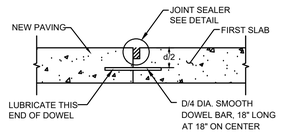

LONGITUDINAL CONSTRUCTION JOINT (AND ATEND OF DAY'S WORK)

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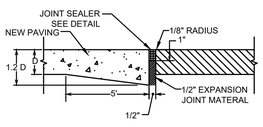
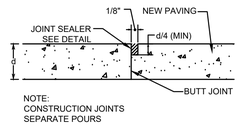


CONCRETE/ASPHALT INTERFACE DETAIL

N.T.S.



CONSTRUCTION JOINT DETAIL

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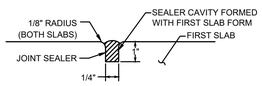
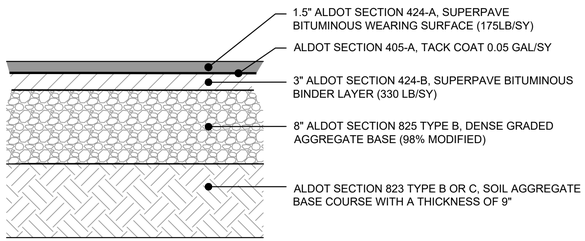


JOINT SEALER DETAIL

N.T.S.

Q C-902 **TYPICAL JOINT DETAIL**

SCALE: NOT TO SCALE



AB C-902 **HEAVY-DUTY PAVEMENT**

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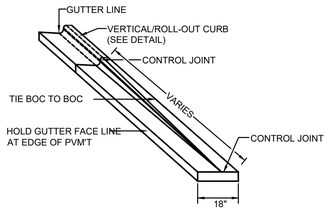
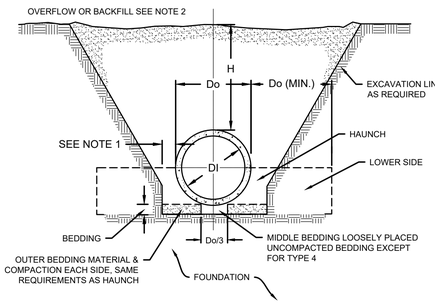


AC C-902 **CURB TRANSITION**

SCALE: NOT TO SCALE



1. CLEARANCE BETWEEN PIPE & TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIED COMPACTION BUT NOT MORE THAN Do/6.
2. OVERFILL OR BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO A1, A3, A2-4, A2-5 OR A4.
3. COMPACTION SHALL BE ACCORDING WITH TABLE NO. 1. PROCTOR STANDARD DENSITY SHALL FOLLOW THE AASHTO T-99, T310.
4. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE OWNER AND THE ENGINEER OF RECORD SHALL BE NOTIFIED.
5. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
6. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS A GEOTECHNICAL ANALYSIS IS MADE AND THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
7. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO PLACEMENT OF THE PIPE.

TABLE NO. 1 SOIL AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH & OUTTER BEDDING	LOWER SIDE
TYPE 1	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	95% PROCTOR STANDARD FOR SOIL A1 & A3	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% PROCTOR STANDARD FOR SOIL A2-4 & A2-5 OR EMBANKMENT TO THE SAME REQUIREMENTS
TYPE 2	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% FOR SOILS A2-4, A2-5 & A4	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% PROCTOR STANDARD FOR SOIL A1 & A3 OR 90% PROCTOR STANDARD FOR SOIL A2-4, A2-5 & A4 OR EMBANKMENT TO THE SAME REQUIREMENTS

N C-902 **TYPICAL TRENCH DETAIL**

SCALE: NOT TO SCALE

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1" 0" 1"

ISSUE	DATE
60% Submittal	10.18.2024
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Project Manager:	DK
Engineer:	DT
Designer:	DT
Drawn By:	HKD

ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049

CIVIL DETAILS

C-902

DRAWING FILE: T:\1 Projects\AL\Orange Beach Water Authority\CMOB230049 New Water Treatment Facility (WTF#2) at Roscoe Road\0 DWG\1 PLANS\02 SHEETS\03 Civil\C-901.dwg
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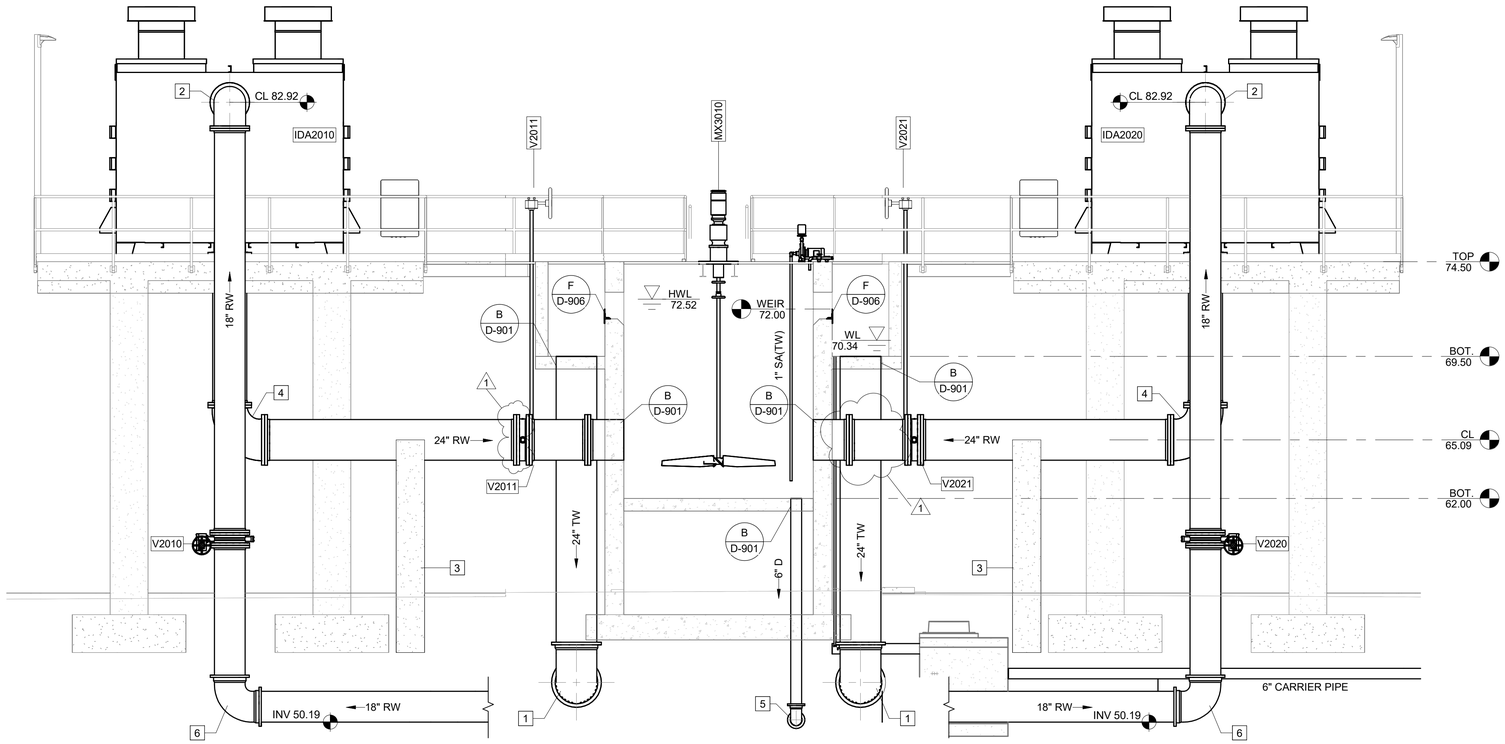
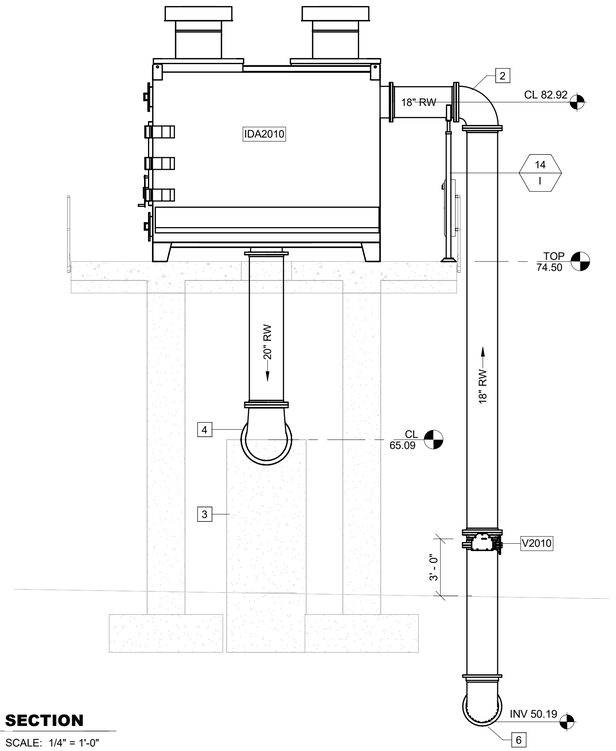


A **SECTION**
D-201 SCALE: 1/4" = 1'-0"



B **SECTION**
D-201 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. 24" 90° MJ BEND
2. 18" 90° FL BEND
3. CONCRETE PIPE SUPPORT
4. 24" X 20" 90° FL BEND
5. 6" 45° MJ BEND
6. 18" 90° MJ BEND

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Mobile, AL 36602
T 251.460.4006

1" 0" .5" 1"

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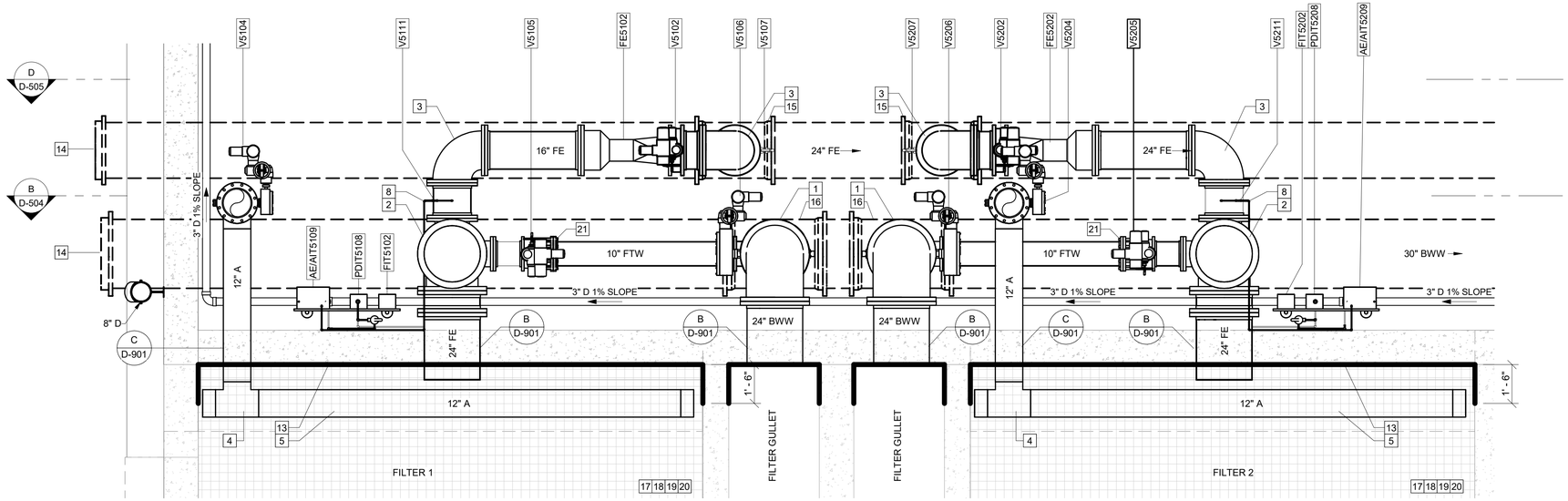
Designer:	DT
Drawn By:	HKD

ROSCOE ROAD WATER
TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

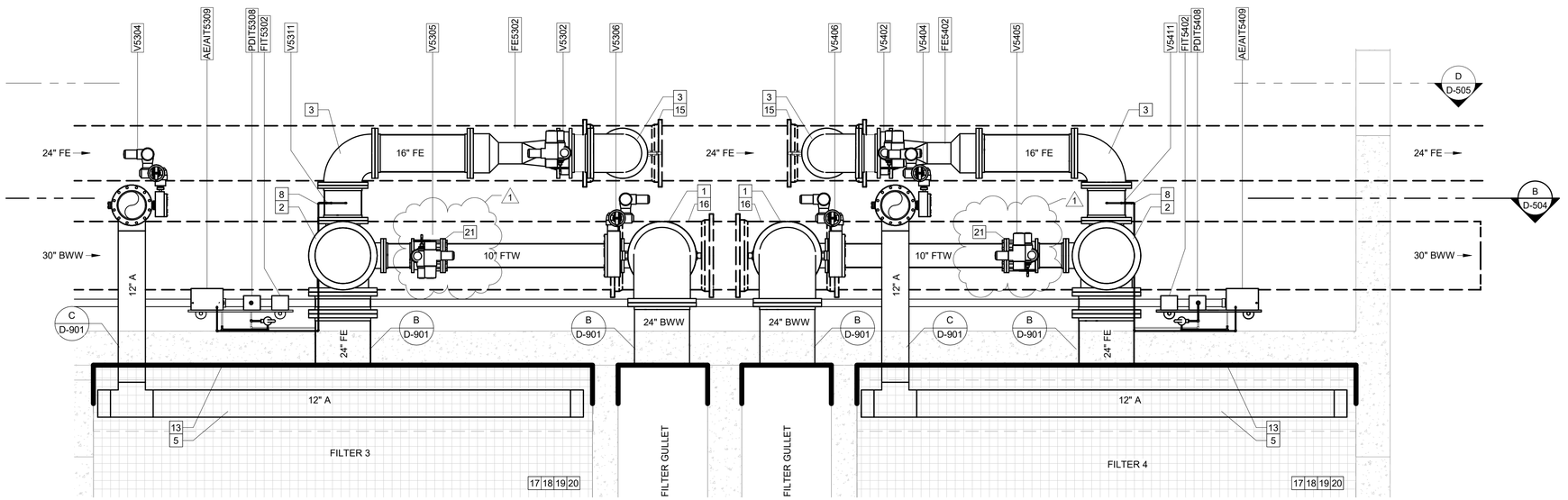
INDUCED DRAFT
AERATORS & RAPID
MIX - SECTION

D-202



5B D-501 **PLAN**

SCALE: 3/8" = 1'-0"



5C D-501 **PLAN**

SCALE: 3/8" = 1'-0"

KEY NOTES: #

1. 24" FL 90° BEND
2. CARBON STEEL FABRICATED SCH 20 24" FL TEE W/ 16" & 10" FLANGED SIDE OUTLETS & 1" TAPPED BOSS FOR PDIT SENSING LINE. CEMENT-LINE OR EPOXY-LINE PLUS EXTERIOR PRIME COAT AFTER FABRICATION. 304 STAINLESS STEEL @ CONTRACTORS OPTION
3. 16" FL 90° BEND
4. 12" 90° BEND
5. 12" AIR SCOUR HEADER FURNISHED BY FILTER EQUIPMENT SUPPLIER
6. 24" BLIND FLANGE IOR CAP
7. 24 x 10 FL TEE
8. 3/8" STAINLESS TUBING SAMPLE LINE TO ANALYZER OR INSTRUMENT
9. MUDLEG WITH ISOLATION VALVE, DRAIN VALVE & INLET SCREEN
10. 12" TEE
11. STAINLESS STEEL BELLOWS-TYPE EXPANSION JOINT
12. 24" FL TEE
13. WATERPROOFING COATING (LAP FILTER & GULLET COATING AS SHOWN) SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS
14. MJ PLUG
15. 24"x16" MJ TEE
16. 30"X24" MJ TEE
17. 12" LAYER OF ANTHRACITE
18. 18" LAYER OF GREEN SAND
19. 12" LAYER OF GRAVEL
20. UNDERDRAIN SYSTEM
21. 10" FLANGE COUPLING ADAPTER

GMC
11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006

1" 0" .5" 1"

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Project Manager:		DK
Engineer:		DT
Designer:		DT
Drawn By:		HKD

ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

FILTRATION - ENLARGED LOWER PLANS

D-502

Autodesk Docs://CMOB230049 New Water Treatment Facility/treatement train.rvt
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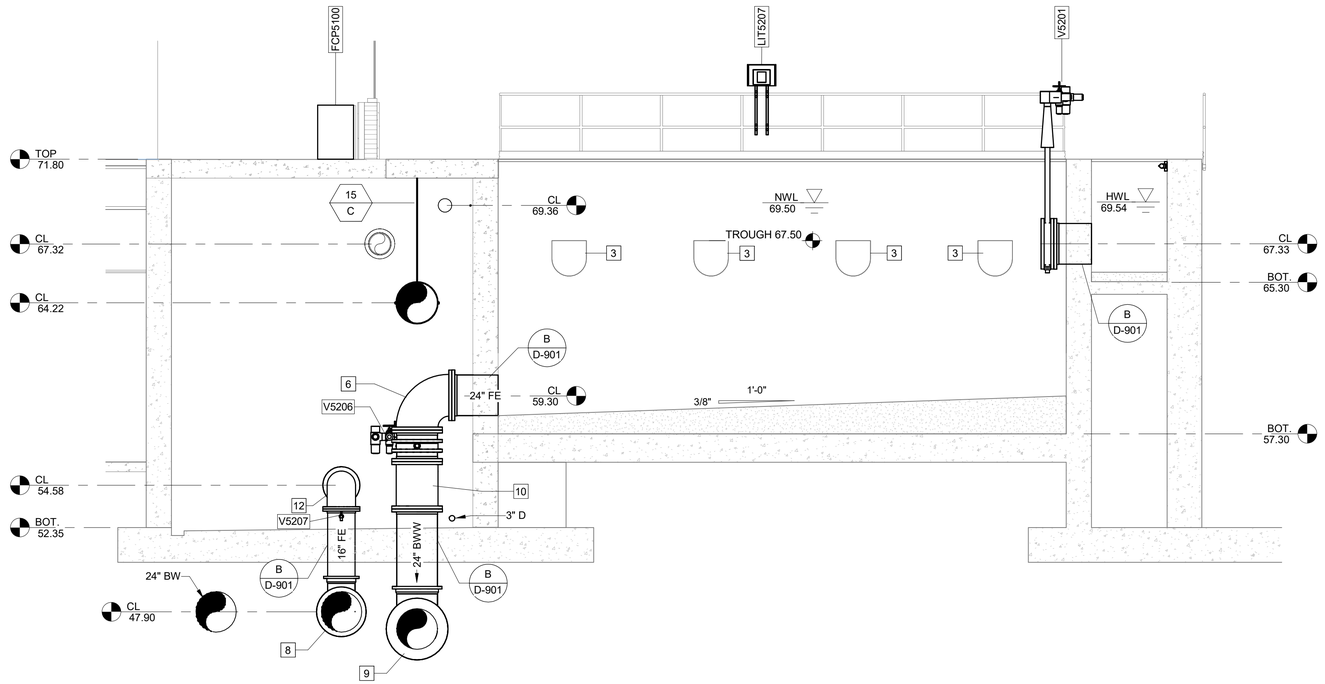
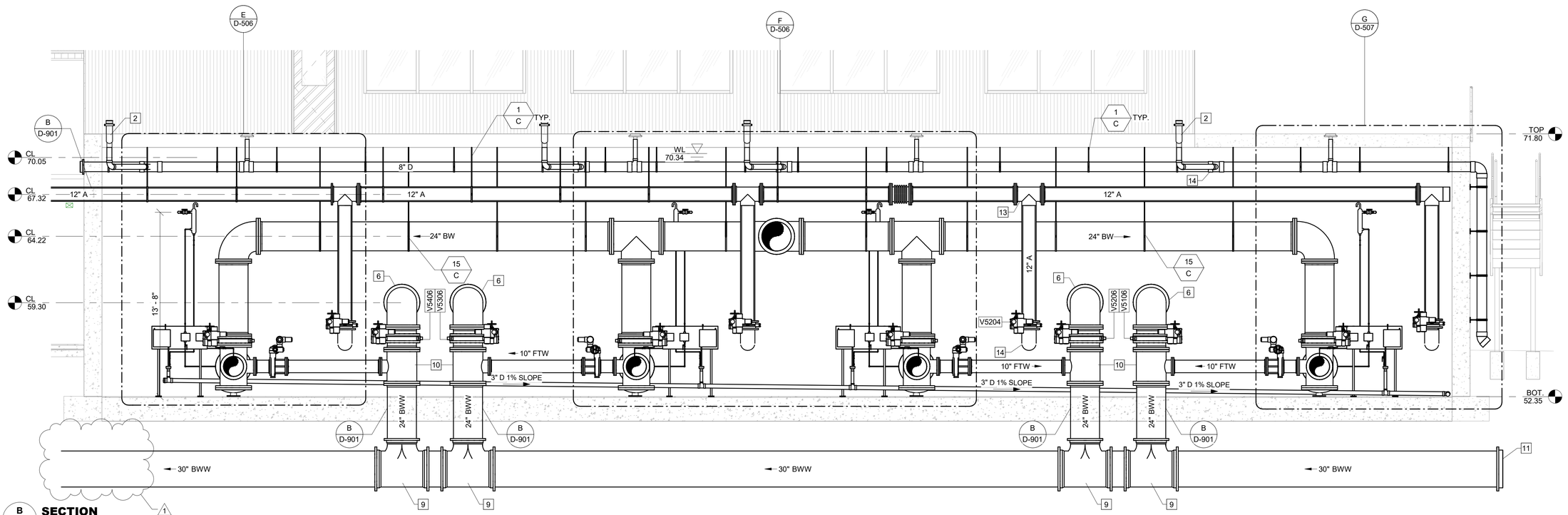


A **SECTION**
D-501 SCALE: 1/4" = 1'-0"



B **SECTION**
D-502 SCALE: 1/4" = 1'-0"

KEY NOTES:

1. AIR SCOUR HEADER FURNISHED BY FILTER EQUIPMENT SUPPLIER
2. DOWNSPOUT BOOT (SEE ARCHITECTURAL)
3. OPENING IN CONCRETE FOR FIBERGLASS WASHWATER TROUGH - FUNRISHED BY FILTER EQUIPMENT SUPPLIER
4. 8" WALL CLEANOUT
5. FLOOR DRAIN - ZURN Z1730
6. 24" 90° FL BEND
7. 24" FL TEE
8. 24"X16" MJ TEE
9. 30"X24" MJ TEE
10. 24"X10" FL TEE
11. 30" MJ CAP
12. 16" 90° FL BEND
13. 12" TEE
14. 8" X 4" WYE

GMC
11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006

1" .5" 0"

ISSUE	DATE	
60% Submittal	10.18.2024	DK
90% Submittal	05.09.2025	DT
Issued for Bid	10.31.2025	DT
1 Addendum 3	02.16.2026	HKD

Project Manager:
Engineer:
Designer:
Drawn By:

ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

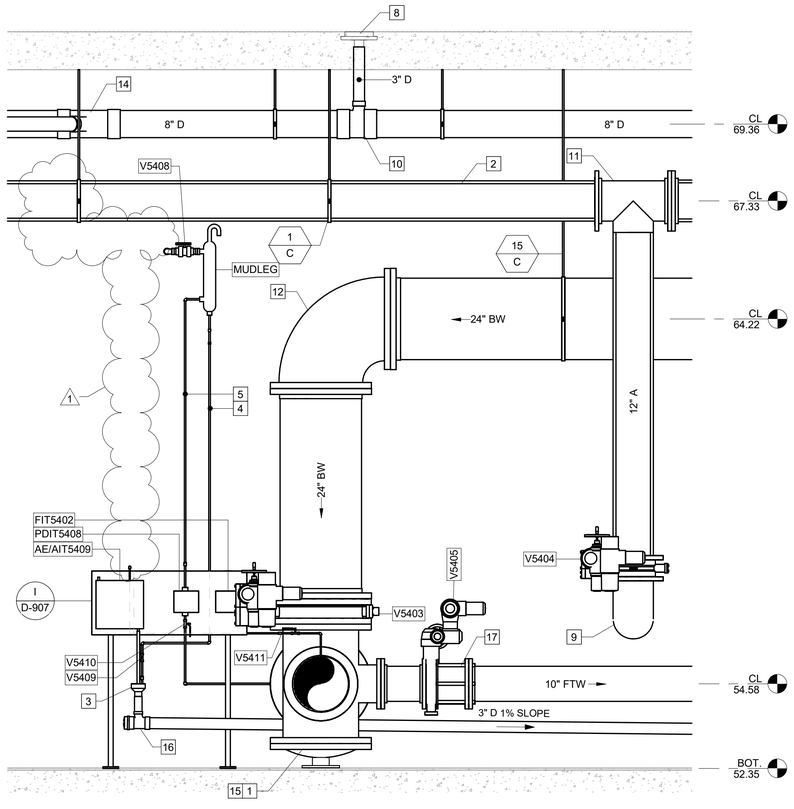
FILTRATION - SECTIONS

D-504

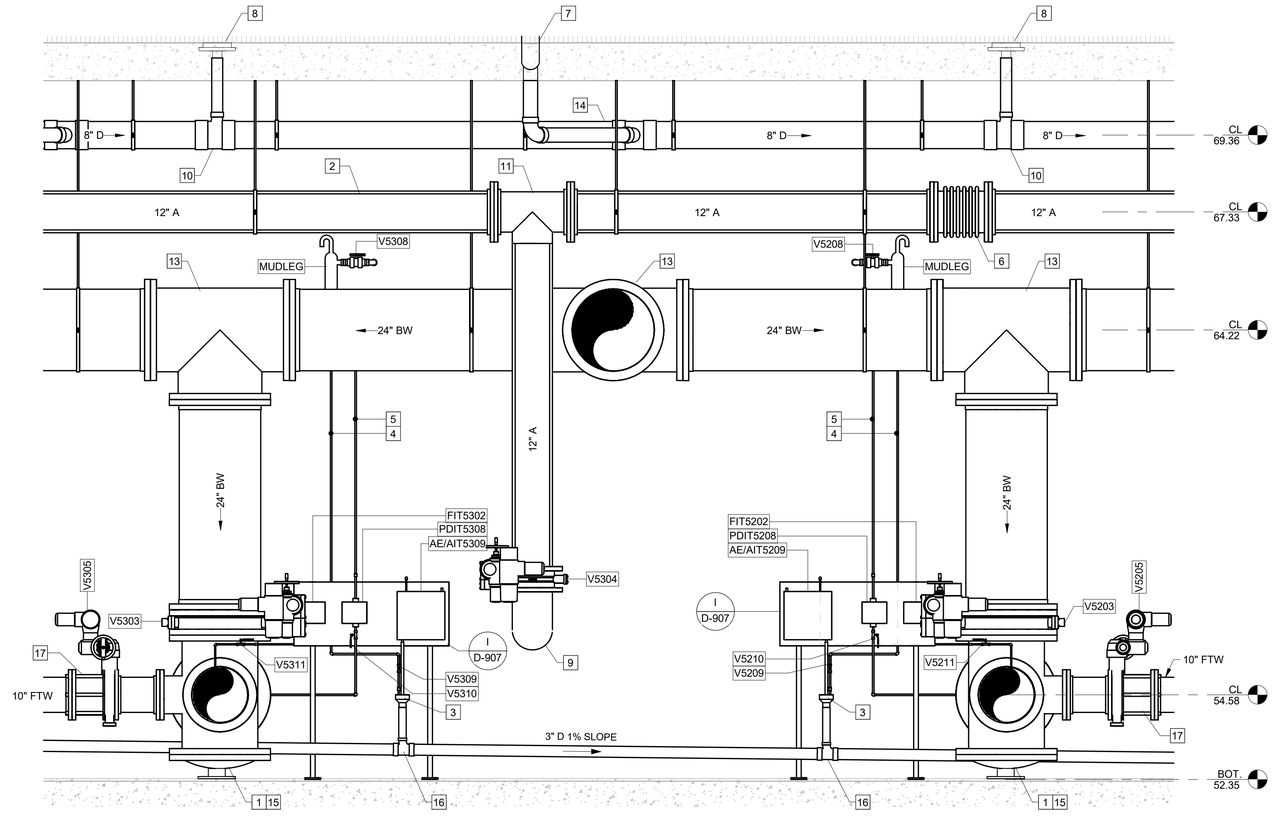
Autodesk Docs://CMOB230049 New Water Treatment Facility/treatement train.rvt
2/16/2026 11:43:36 AM

KEY NOTES: #

1. CARBON STEEL FABRICATED SCH 20 24" FL TEE W/ 16" & 10" FLANGED SIDE OUTLETS & 1" TAPPED BOSS FOR PDIT SENSING LINE. CEMENT-LINE OR EPOXY-LINE PLUS EXTERIOR PRIME COAT AFTER FABRICATION. 304 STAINLESS STEEL @ CONTRACTORS OPTION
2. 12" AIR SCOUR HEADER
3. 4 x 2 O.S.D
4. 3/8" STAINLESS TUBING DRAIN TO O.S.D.
5. 3/8" STAINLESS TUBING SAMPLE LINE TO ANALYZER OR INSTRUMENT
6. STAINLESS STEEL BELLOWS-TYPE EXPANSION JOINT
7. DOWNSPOUT BOOT (SEE ARCHITECTURAL)
8. FLOOR DRAIN - ZURN Z1730-4-TS OR EQUAL
9. 12" 90° BEND
10. 8" X 4" SANITARY TEE
11. 12" TEE
12. 24" 90° FL BEND
13. 24" FL TEE
14. 8" x 4" WYE
15. BLIND FLANGE WITH FLOOR SUPPORT
16. 3"X2" SANITARY TEE
17. 10" FLANGE COUPLING ADAPTER



E **SECTION**
D-504 SCALE: 1/2" = 1'-0"



F **SECTION**
D-504 SCALE: 1/2" = 1'-0"

GMC
11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006

1" 0" .5" 1"

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Engineer:	DT
Designer:	DT
Drawn By:	HKD

ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

FILTRATION - SECTIONS

D-506

Autodesk Docs://CMOB230049 New Water Treatment Facility/treatement train.rvt
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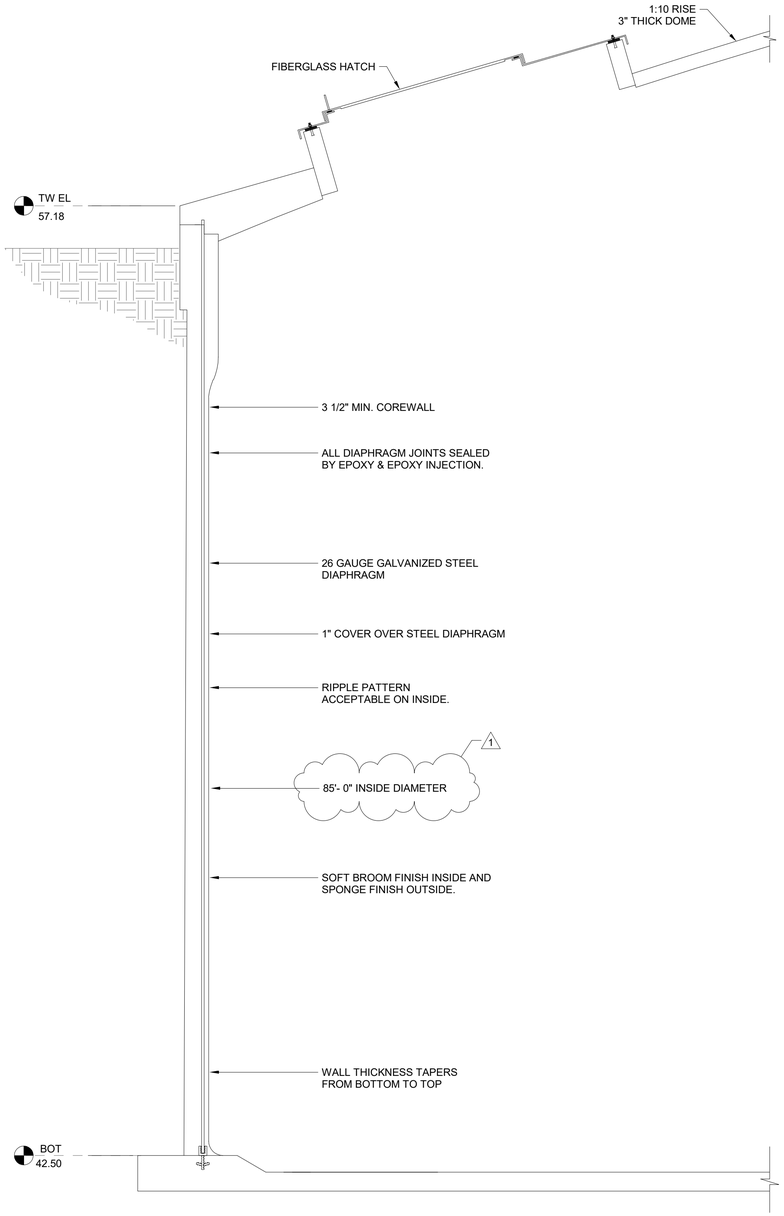
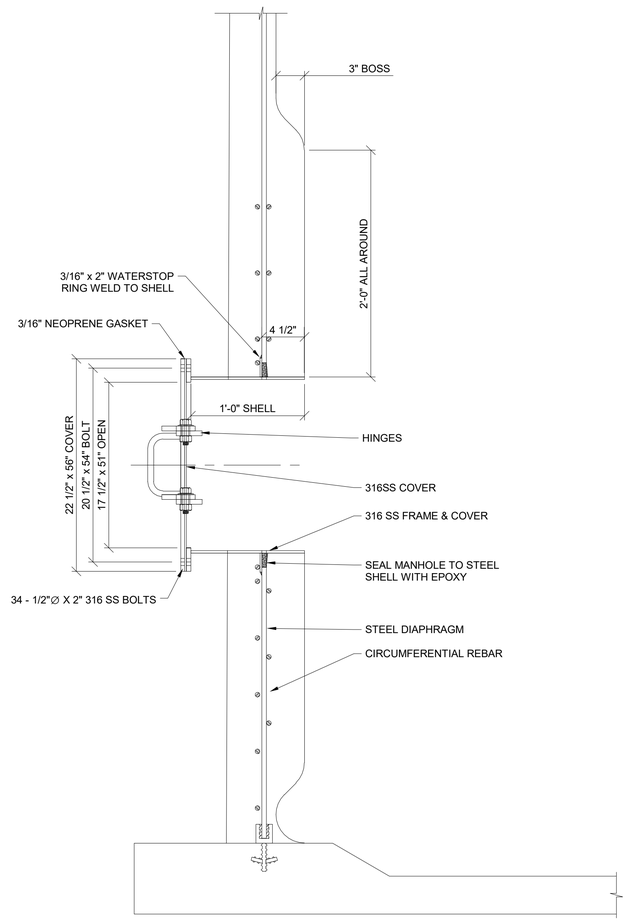


C D-601 **SECTION**
SCALE: 3/4" = 1'-0"



D D-601 **WALL MANHOLE - SECTION**
SCALE: 1 1/2" = 1'-0"

GMC

11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006

1" .5" 0" 1"

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Designer:	DT
Drawn By:	HKD

ROSCOE ROAD WATER
TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

CLEARWELL
SECTIONS

D-603

Autodesk Docs://CMOB230049 New Water Treatment Facility/Clearwell (1).rvt
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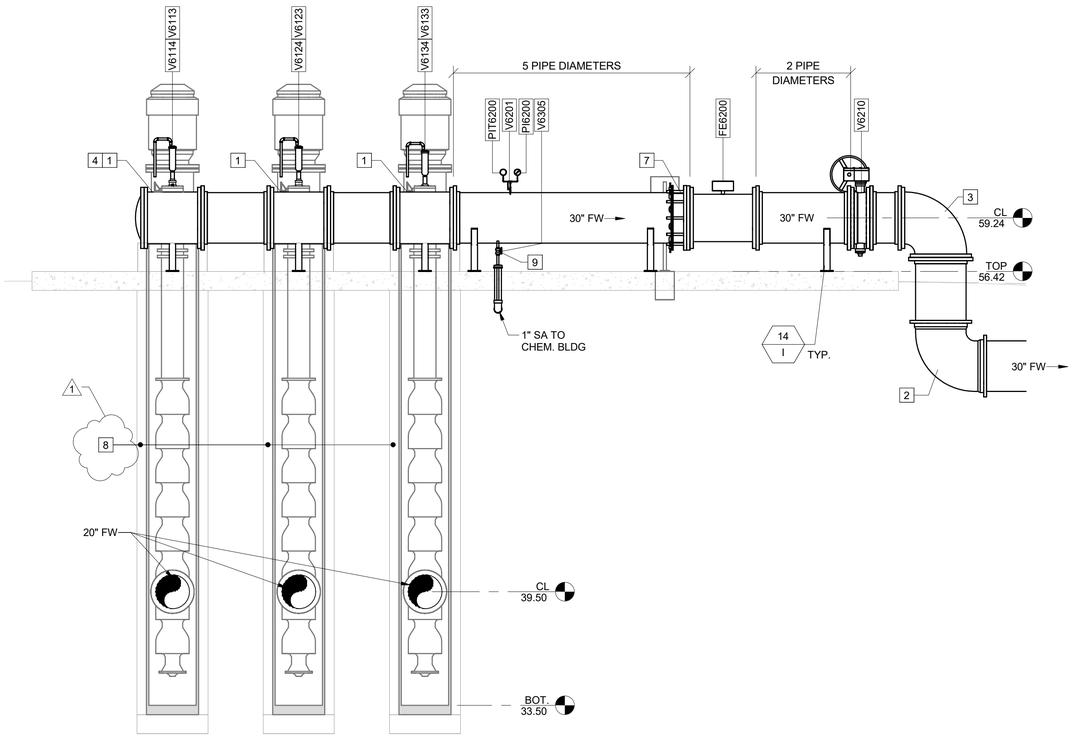
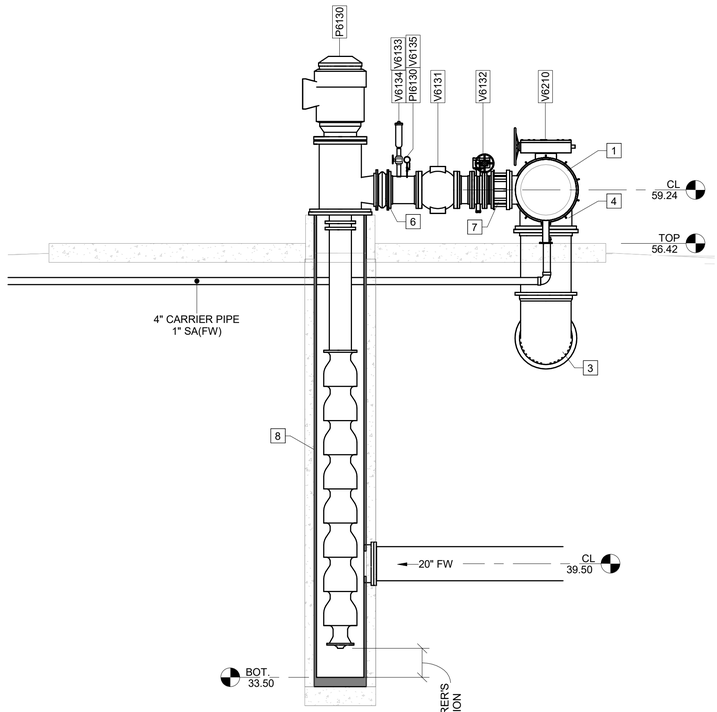
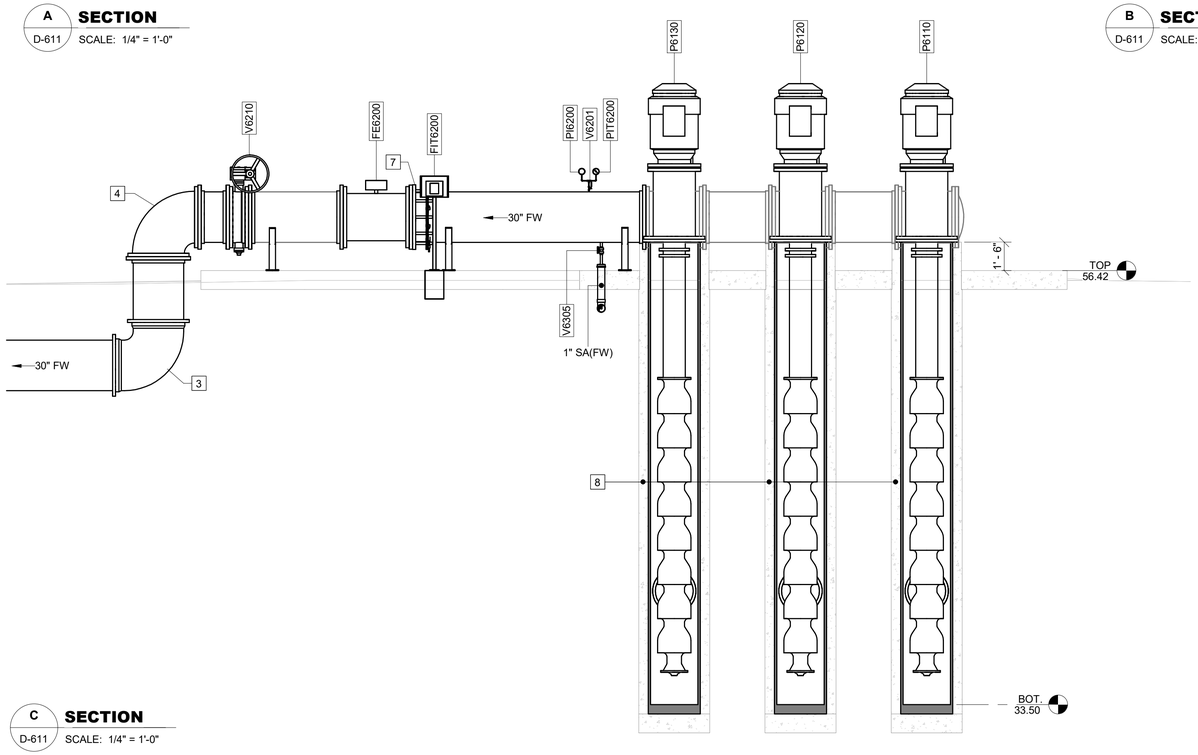


A **SECTION**
D-611 SCALE: 1/4" = 1'-0"



B **SECTION**
D-611 SCALE: 1/4" = 1'-0"



C **SECTION**
D-611 SCALE: 1/4" = 1'-0"

GMC

11 North Water Street
Suite 15250
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T 251.460.4006

1" .5" 0"

ISSUE | DATE

60% Submittal	10.18.2024
90% Submittal	05.09.2025
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1 Addendum 1	01.09.2026

Project Manager:	DK
Engineer:	DT
Designer:	DT
Drawn By:	HKD

KEY NOTES: #

1. 24" X 20" MJ TEE
2. 30" X 16" FL TEE
3. 30" 90° MJ BEND (RESTRAINED)
4. 30" 90° FL BEND
5. BLIND FLANGE
6. EXPANSION JOINT W/ CONTROL RODS
7. FLANGE COUPLING ADAPTER (RESTRAINED)
8. 30" Ø CAN W/ 6" CONCRETE ENCASEMENT
9. INSULATE & HEAT TRACE GROUND SA PIPING

ROSCOE ROAD WATER
TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

HIGH SERVICE PUMP
STATION - SECTIONS

D-612

Autodesk Docs://CMOB230049 New Water Treatment Facility/treatement train.rvt
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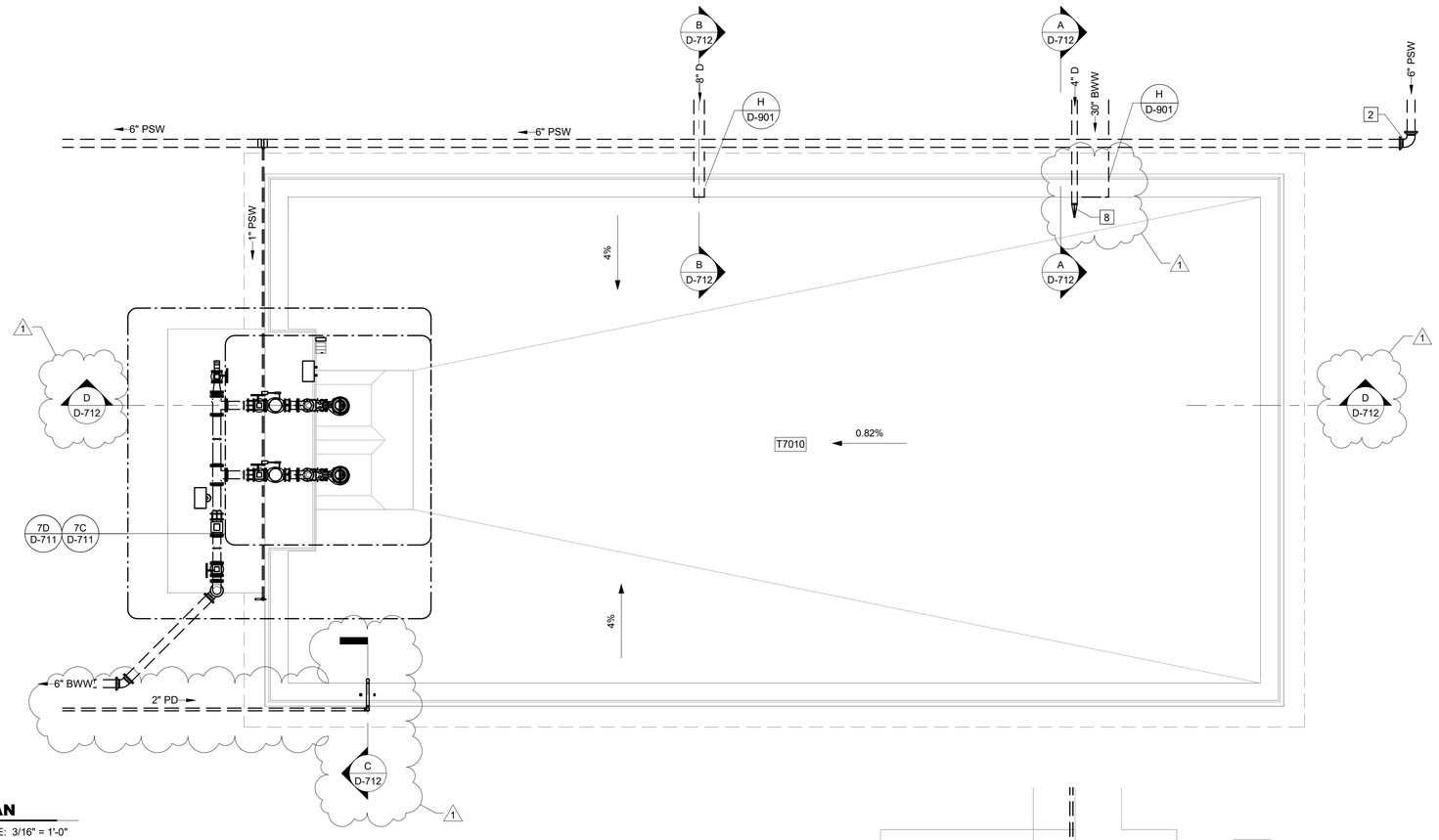
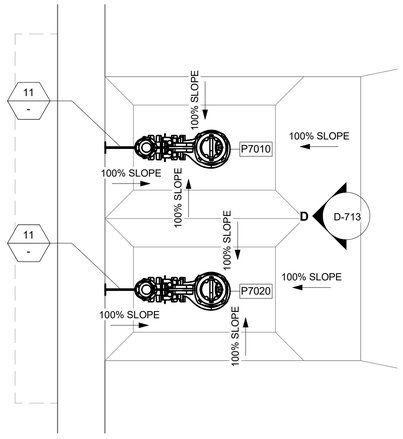
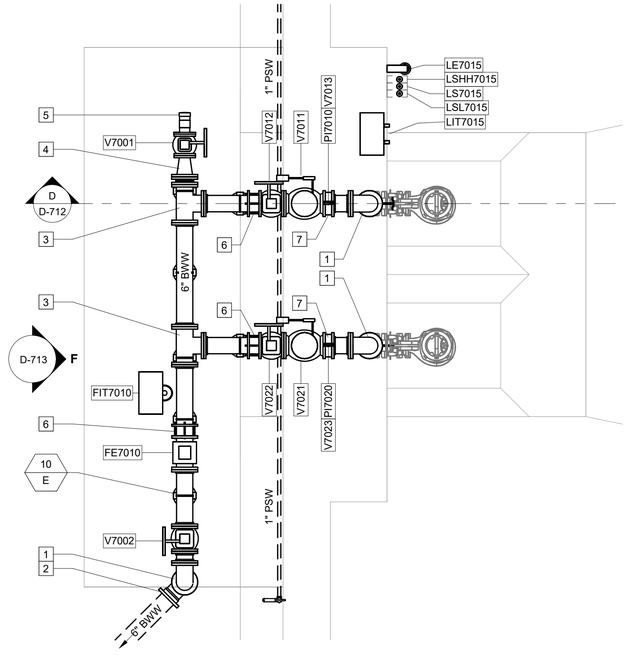


7B D-711 **PLAN**
SCALE: 3/16" = 1'-0"



7C D-711 **ENLARGED LOWER PLAN**
SCALE: 3/8" = 1'-0"



7D D-711 **ENLARGED UPPER PLAN**
SCALE: 3/8" = 1'-0"

KEY NOTES: [#]

1. 6" FL 90° BEND
2. 6" MJ 90° BEND (RESTRAINED)
3. 6" FL TEE
4. 6" x 4" FL CONCENTRIC REDUCER
5. 4" CAMLOCK FITTING (MALE W/ DUST CAP)
6. FLANGE COUPLING ADAPTER (RESTRAINED)
7. ANNULAR SEAL
8. 4" DUCKBILL CHECK VALVE

GMC
11 North Water Street
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1" 0" .5" 1"

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ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

CMOB230049

BACKWASH WASTE SUMP - PLAN

D-711

Autodesk Docs://CMOB230049 New Water Treatment Facility/treatement train.rvt
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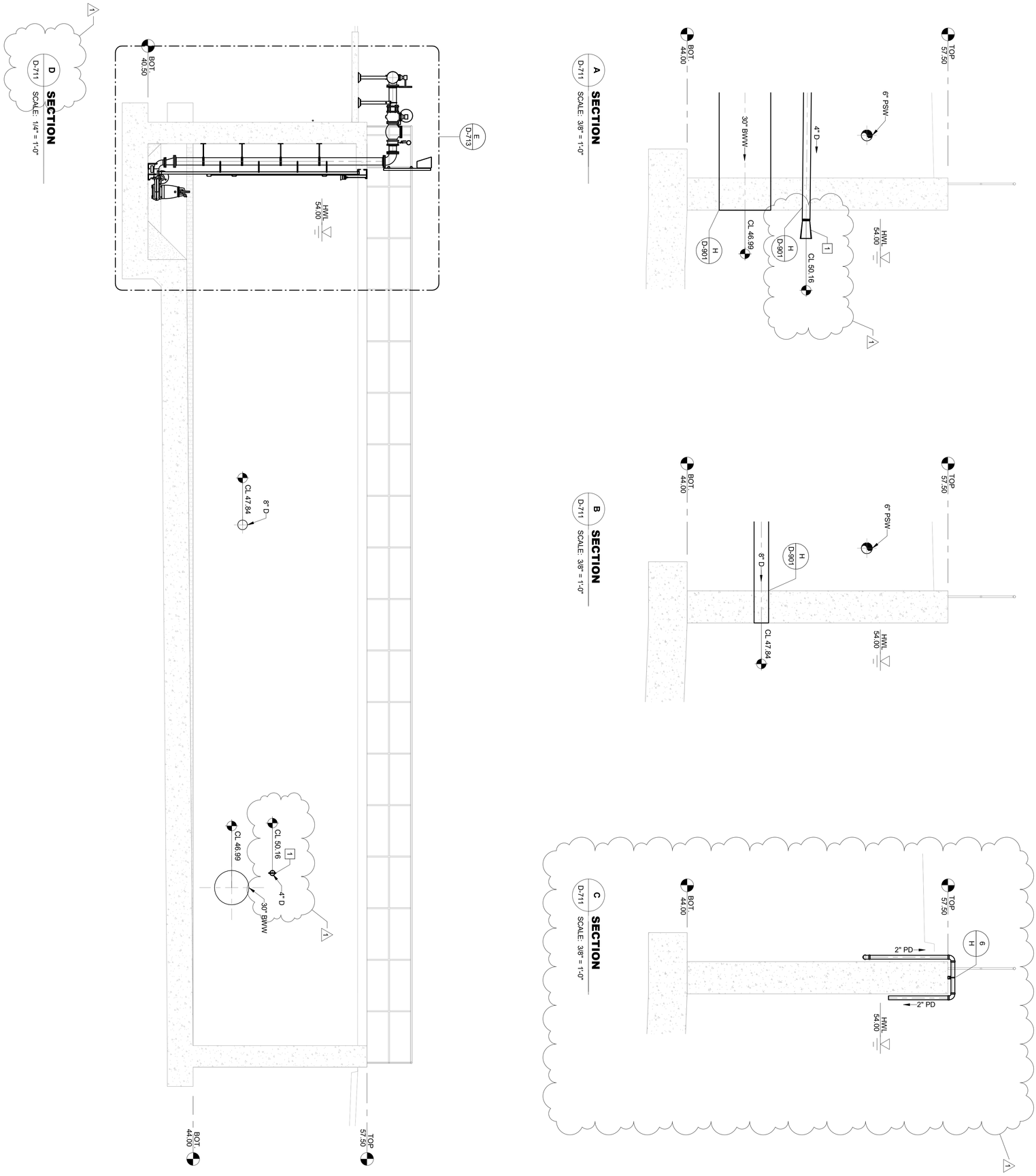

KEY NOTES:

1. 4" DUCKBILL CHECK VALVE

BACKWASH WASTE SUMP - SECTIONS

D-712

ROSCOE ROAD WATER TREATMENT PLANT

Orange Beach Water Authority

Foley, Alabama

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GMC

1" .5" 0" 1"

	TAG	SERVICE	TYPE	SIZE (INCHES)	CONNECTIONS	OPERATOR	NOTES
1000	V1201	RW	BUTTERFLY	24	FL	ELECTRIC MODULATING	RAW WATER RATE-OF-FLOW CONTROLLER
	V1501	SA	BALL	1	UNION	LEVER	
	V1301	PD	BALL CHECK	2	UNION	-	
	V1302	PD	BALL	2	UNION	LEVER	
	V1502	SA	BALL CHECK	1	UNION	-	
	V1503	SA	SAFETY RELIEF	1	THD	-	
	V1504	SA	BALL	1	UNION	LEVER	
	V1505	SA	PRV	1	THD	-	BACK PRESSURE SUSTAINING
	V1506	SA	BALL	1	UNION	LEVER	
	V1507	SA	BALL	1	UNION	LEVER	
2000	V2010	RW	BUTTERFLY	18	FL	HANDWHEEL	
	V2011	RW	BUTTERFLY	24	FL	HANDWHEEL	
	V2020	RW	BUTTERFLY	18	FL	HANDWHEEL	
	V2021	RW	BUTTERFLY	24	FL	HANDWHEEL	
3000	V3011	TW	BUTTERFLY	24	MJ	2" NUT - GEARED	VALVE BOX
	V3012	TW	BUTTERFLY	24	MJ	2" NUT - GEARED	VALVE BOX
	V3013	TW	BUTTERFLY	24	MJ	2" NUT - GEARED	VALVE BOX
	V3014	D	PLUG	6	MJ	2" NUT - GEARED	VALVE BOX
	V3015	SA	BALL CHECK	1	THD	-	
	V3016	SA	BALL	1	TD	LEVER	
	V3017	SA	PRV	1	TD	-	
	V3018	SA	BALL	1	THD	-	
	V3111	TW	BUTTERFLY	18	FL	HANDWHEEL	
	V3112	D	PLUG	6	MJ	2" NUT - GEARED	
	V3113	SA	BALL	2	THD	LEVER	
	V3114	SA	AIR RELEASE	2	THD	-	
	V3121	TW	BUTTERFLY	24	FL	HANDWHEEL	
	V3122	D	PLUG	6	MJ	2" NUT - GEARED	
	V3131	TW	BUTTERFLY	18	FL	HANDWHEEL	
	V3132	D	PLUG	6	MJ	2" NUT - GEARED	
	V3133	SA	BALL	2	THD	LEVER	
	V3134	SA	AIR RELEASE	2	THD	-	
	V3141	TW	BUTTERFLY	24	FL	HANDWHEEL	
	V3142	D	PLUG	6	MJ	2" NUT - GEARED	
	V3151	TW	BUTTERFLY	18	FL	HANDWHEEL	
	V3152	D	PLUG	6	MJ	2" NUT - GEARED	
	V3153	SA	BALL	2	THD	LEVER	
	V3154	SA	AIR RELEASE	2	THD	-	
	V3161	TW	BUTTERFLY	24	FL	HANDWHEEL	
	V3162	D	PLUG	6	MJ	2" NUT - GEARED	
	V3171	TW	BUTTERFLY	18	FL	HANDWHEEL	
	V3172	D	PLUG	8	MJ	2" NUT - GEARED	
	V3173	SA	BALL	2	THD	LEVER	
	V3174	SA	AIR RELEASE	2	THD	-	
	V3181	TW	BUTTERFLY	24	FL	HANDWHEEL	
	V3182	D	PLUG	6	MJ	2" NUT - GEARED	
5000	V5101	TW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	EXTENDED BONNET ABOVE OPERATING FLOOR ACTUATOR - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5102	FE	BUTTERFLY	16	FL	ELECTRIC MODULATING	FILTER NO. 1 RATE-OF-FLOW CONTROLLER - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5103	BW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5104	A	BUTTERFLY	12	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5105	FTW	BUTTERFLY	10	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5106	BWW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5107	SA	BALL	1	UNION	LEVER	
	V5108	FE	BALL	1	THD	LEVER	PDIT
	V5109	FE	BALL	$\frac{1}{2}$	THD	LEVER	MUD LEG DRAIN VALVE
	V5110	FE	BALL	1	THD	LEVER	PDIT
	V5111	FE	NEEDLE	1	THD	LEVER	AIT
	V5121	D	BALL CHECK	2	UNION	-	
	V5122	D	BALL	2	UNION	LEVER	
	V5201	TW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	EXTENDED BONNET ABOVE OPERATING FLOOR ACTUATOR - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5202	FE	BUTTERFLY	16	FL	ELECTRIC MODULATING	FILTER NO. 2 RATE-OF-FLOW CONTROLLER - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5203	BW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5204	A	BUTTERFLY	12	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5205	FTW	BUTTERFLY	10	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5206	BWW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5207	SA	BALL	1	THD	LEVER	
	V5208	FE	BALL	1	THD	LEVER	PDIT
	V5209	FE	BALL	$\frac{1}{2}$	THD	LEVER	MUD LEG DRAIN VALVE
	V5210	FE	BALL	1	THD	LEVER	PDIT
	V5211	FE	NEEDLE	1	THD	LEVER	AIT
	V5301	TW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	EXTENDED BONNET ABOVE OPERATING FLOOR ACTUATOR - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5302	FE	BUTTERFLY	16	FL	ELECTRIC MODULATING	FILTER NO. 3 RATE-OF-FLOW CONTROLLER - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5303	BW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5304	A	BUTTERFLY	12	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5305	FTW	BUTTERFLY	10	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5306	BWW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5307	SA	BALL	1	THD	LEVER	
	V5308	FE	BALL	1	THD	LEVER	PDIT
	V5309	FE	BALL	$\frac{1}{2}$	THD	LEVER	MUD LEG DRAIN VALVE
	V5310	FE	BALL	1	THD	LEVER	PDIT
	V5311	FE	NEEDLE	1	THD	LEVER	AIT
	V5401	TW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	EXTENDED BONNET ABOVE OPERATING FLOOR ACTUATOR - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5402	FE	BUTTERFLY	16	FL	ELECTRIC MODULATING	FILTER NO. 4 RATE-OF-FLOW CONTROLLER - FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5403	BW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5404	A	BUTTERFLY	12	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5405	FTW	BUTTERFLY	10	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5406	BWW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5407	SA	BALL	1	THD	LEVER	
	V5408	FE	BALL	1	THD	LEVER	PDIT
	V5409	FE	BALL	$\frac{1}{2}$	THD	LEVER	MUD LEG DRAIN VALVE
	V5410	FE	BALL	1	THD	LEVER	PDIT
	V5411	FE	NEEDLE	1	THD	LEVER	AIT
	V5715	A	BUTTERFLY	10	FL	HANDWHEEL	
	V5725	A	BUTTERFLY	10	FL	HANDWHEEL	
	V5750	A	BUTTERFLY	10	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5751	A	BALL	2	THD	LEVER	
	V5801	SA	BALL	1	THD	LEVER	BACK PRESSURE SUSTAINING
	V5802	SA	BALL CHECK	1	THD	-	
	V5803	SA	BALL	1	THD	LEVER	
	V5804	SA	PRV	1	THD	-	BACK PRESSURE SUSTAINING

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ROSCOE ROAD WATER TREATMENT PLANT
Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049

VALVE SCHEDULE

D-911

	TAG	SERVICE	TYPE	SIZE (INCHES)	CONNECTIONS	OPERATOR	NOTES
	V5806	SA	NEEDLE	1	THD	LEVER	
	V5807	SA	NEEDLE	1	THD	LEVER	
	V5808	SA	NEEDLE	1	THD	LEVER	
5000	V5830	BW	BUTTERFLY	24	FL	ELECTRIC OPEN-CLOSE	FURNISHED BY FILTER EQUIPMENT SUPPLIER
	V5831	SA	BALL	2	THD	LEVER	
	V5832	SA	AIR RELEASE	2	THD	-	
	V5833	BW	BALL	1/4	THD	LEVER	
	V6010	FE	BUTTERFLY	24	MJ	2" NUT - GEARED	
	V6011	FE	BUTTERFLY	24	MJ	2" NUT - GEARED	
	V6020	FE	BUTTERFLY	24	MJ	2" NUT - GEARED	
	V6021	FE	BUTTERFLY	24	MJ	2" NUT - GEARED	
	V6111	FW	GLOBE CHECK	16	FL	-	
	V6112	FW	BUTTERFLY	16	FL	HANDWHEEL	
	V6113	FW	BALL	2	THD	LEVER	
	V6114	FW	AIR RELEASE	2	THD	-	
	V6115	FW	BALL	1/4	THD	LEVER	
	V6116	FW	BUTTERFLY	16	MJ	2" NUT - GEARED	
	V6121	FW	GLOBE CHECK	16	FL	-	
	V6122	FW	BUTTERFLY	16	FL	HANDWHEEL	
	V6123	FW	BALL	2	THD	LEVER	
	V6124	FW	AIR RELEASE	2	THD	-	
	V6125	FW	BALL	1/4	THD	LEVER	
	V6126	FW	BUTTERFLY	16	MJ	2" NUT - GEARED	
	V6131	FW	GLOBE CHECK	16	FL	-	
	V6132	FW	BUTTERFLY	16	FL	HANDWHEEL	
	V6133	FW	BALL	2	THD	LEVER	
6000	V6134	FW	AIR RELEASE	2	THD	-	
	V6135	FW	BALL	1/4	THD	LEVER	
	V6136	FW	BUTTERFLY	16	MJ	2" NUT - GEARED	
	V6201	FW	BALL	1/4	THD	LEVER	
	V6210	FW	BUTTERFLY	30	FL	HANDWHEEL	
	V6250	FW	SWING CHECK	6	FL	-	
	V6251	FW	BUTTERFLY	6	FL	HANDWHEEL	
	V6252	PSW	PRV	6	FL	-	
	V6253	PSW	BUTTERFLY	6	FL	HANDWHEEL	
	V6254	PSW	BUTTERFLY	6	FL	HANDWHEEL	
	V6255	PSW	RPZ	6	FL	-	
	V6256	PW	BALL	2	THD	LEVER	
	V6305	FW	BALL	30	FL	LEVER	
	V6309	FW	NEEDLE				
	V6310	FW	NEEDLE				
	V6311	FW	NEEDLE				
	V6312	FW	NEEDLE				
	V6313	SA	PRV	1	THD	-	
	V6321	PSW	BALL	2	THD	LEVER	
	V6400	FW	BUTTERFLY	20	FL	ELECTRIC-MODULATING	
	V7001	BWW	PLUG	4	FL	LEVER	
	V7002	BWW	PLUG	6	FL	LEVER	
7000	V7011	BWW	SWING CHECK	6	FL	-	
	V7012	BWW	PLUG	6	FL	LEVER	
	V7013	BWW	BALL	1/4	THD	LEVER	
	V7021	BWW	SWING CHECK	6	FL	-	
7000	V7022	BWW	PLUG	6	FL	LEVER	
	V7023	BWW	BALL	1/4	THD	LEVER	
	V8211	NaOH	BALL	2	UNION	LEVER	
	V8212	NaOH	BALL	2	UNION	LEVER	
	V8213	NaOH	BALL	2	UNION	LEVER	
	V8221	NaOH	BALL	2	UNION	LEVER	
	V8222	NaOH	BALL	2	UNION	LEVER	
	V8223	NaOH	BALL	2	UNION	LEVER	
	V8231	NaOH	BALL	1/2	UNION	LEVER	
	V8265	PSW	BALL	1	UNION	LEVER	
	SV8266	PSW	SOLENOID	1	THD	ELECTRIC	
	V8267	PSW	NEEDLE	1	THD	MANUAL	
	V8268	PSW	BALL CHECK	1	UNION	-	
	V8251	NaOH	BALL	1/2	THD	LEVER	
	V8275	PSW	BALL	1	UNION	LEVER	
	SV8276	PSW	SOLENOID	1	THD	ELECTRIC	
	V8277	PSW	NEEDLE	1	THD	MANUAL	
	V8278	PSW	BALL CHECK	1	UNION	-	
	V8301	PSW	BALL	1	UNION	LEVER	
	V8302	PSW	PRV	1	THD	-	
	V8303	PSW	BALL	1/4	THD		PI8303 ISOLATION
8000	V8326	V	BALL	1/2	UNION	LEVER	
	V8350	HYPO	BALL	3	UNION	LEVER	
	V8351	HYPO	BALL	3	UNION	LEVER	
	V8352	HYPO	BALL	2	UNION	LEVER	
	V8353	HYPO	BALL	2	UNION	LEVER	
	V8354	HYPO	BALL	2	UNION	LEVER	
	V8355	HYPO	BALL	2	UNION	LEVER	
	V8361	HYPO	BALL	3	UNION	LEVER	
	V8362	HYPO	BALL	2	UNION	LEVER	
	V8363	HYPO	BALL	2	UNION	LEVER	
	V8364	HYPO	BALL	2	UNION	LEVER	
	V8365	V	BALL	1/2	UNION	LEVER	
	V8511	COR	BALL	2	UNION	LEVER	
	V8512	COR	BALL	2	UNION	LEVER	
	V8513	COR	BALL	2	UNION	LEVER	
	V8571	COR	BALL	1/2	UNION	LEVER	
	V8575	PSW	BALL	1	UNION	LEVER	
	SV5876	PSW	SOLENOID	1	THD	ELECTRIC	
	V8577	PSW	NEEDLE	1	THD	MANUAL	
	V8578	PSW	BALL CHECK	1	UNION	-	
	V8580	COR	BALL	1	UNION	LEVER	

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Orange Beach Water Authority
Foley, Alabama

PROJECT #CMOB230049

VALVE SCHEDULE

D-912

DRAWING FILE: T:\1 Projects\AL\Orange Beach Water Authority\CMOB230049 New Water Treatment Facility (WTF#2) at Roscoe Road\0 DWG\1 PLANS\02 SHEETS\10 PROCESS\D-921 VALVE SCHEDULE.dwg
PLOTTED: Feb 16, 2026 - 11:32am