200 Clinton Ave W, Suite 704
Huntsville, Alabama 35801
(256) 203-9501

September 17, 2024

Project No: 100200.32

ADDENDUM NO. 3
TO THE CONTRACT DOCUMENTS AND DRAWINGS

For the construction of the
Aloe Bay Water Quality Enhancement Wastewater Treatment Facility

To All Planholders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents and Drawings for the **Aloe Bay Water Quality Enhancement Wastewater Treatment Facility** project for Dauphin Island Water and Sewer Authority as fully and completely as if the same were set forth therein:

SPECIFICATIONS

DRAWINGS

1. Replace sheets M-1.0 and M-1.1 with revised sheets M-1.0
2. Replace Sheets A-8.0, A-9.0, A-10.0, A-14.0, A-15.0, A-17.0, and A-19.0 with Revised Sheets A-8.0, A-9.0, A-10.0, A-14.0, A-15.0, A-17.0, and A-19.0

CLARIFICATIONS

1. See below table clarifying soil undercut

Below is the required thickness of undercut and stone placement as defined by the recommendations outlined within the project geotechnical report, by Geotechnical Engineering and Testing. Report #22-166 dated September 19, 2022. The following should be considered in the base bid.

Structure	Drawing Series	Clean #57 Stone Layer Depth below foundation
Pump Station	S1.X	6"
Head Works	S2.X	6"
Process Basin Walls and Center Fdn.	S3.X	Tank Wall Foundation width + 0.5' - See Note 1
Process Basin Floor	S3.X	12" (ALDOT 823.03 A or B Fill)
Chlorine Contact Chamber	S4.X	36"
Digester Platform	S5.X	6"

De-Watering Building Fdn.	S6.X	6"
Odo Control - Perimeter Fdn	S8.X	12"
Operations Bldg.	S9.X	
Wall Fdn		6"
Column Foundation F2		48"
Column foundation All others		6"
Slab		6"
Drying Pad	M9.X	6"

Note 1. Soils shall be anticipated to be undercut below the foundations bearing elevation a depth of the foundation width plus 6 inches and extend beyond the foundation a minimum of 1'-0". This is a delegated design per the contract documents and will be based on the tank vendors foundation.

Note 2. Undercut and placement of stone or fill shall be anticipated to be the width of the foundation/slab + 1'-0"

2. Please see clarifications to specification 11750 – Ultraviolet Disinfection System below
    a. Interconnect wiring between UV reactor and power/control panel shall be provided by Manufacturer. Please provide distance between UV reactor and power/control panel. **Panel is shown on sheet M-4.0**
    b. Manganese concentration: **<0.1 mg/L**
    c. The panel will be located within a building? Will it be conditioned? If yes, than would NEMA12 cabinet suffice? **The panel is located under a PEMB roof, but the space is not conditioned. NEMA 4x is required.**

ATTACHMENTS

1. Revised Sheets M-1.0 and M-1.1
2. Revised Sheets A-8.0, A-9.0, A-10.0, A-14.0, A-15.0, A-17.0, A-19.0

QUESTIONS

1. Please reference the concrete beam schedule on S-9.3. Do the beam depths include the 4" floor topping?

Yes, the beam depths do include the 4-inch floor topping (i.e. top of slab and top of beam are flush). Refer to sheets S-9.7 and S-9.8.

2. Please reference details 8 and 10 on S-9.7. It appears that the details are indicating that the beams should be poured separately from the 4" floor topping, because of the dark line drawn between the beam and the topping. Please clarify.

The dark line is shown for clarity purposes on the drawings to show the difference between the beam and slab. The slab and beams do not need to be poured separately and can be poured together.

3. The concrete beam schedule on S-9.3 callout a few beams that have a large depth. This depth will most likely protrude lower than the 7 1/8" furr down framing shown in detail 3 on A-14.0. Is this acceptable to the architect, or should a deeper furr down be provided such that no beams are seen?

Some of the deeper interior beam heights have been modified. Refer to revised Architectural sheets.

4. For the roof deck insulation, what products and thickness are required? We don't see any SPECS for this.

The basis of design is Atlas ACFoam Crossvent with a 4-inch composite thickness and 1-inch of airspace. Refer to revised sheet A-14.0.

5. Where is the Ice and Water underlayment to be installed? It lists multiple layers.

Refer to revised sheet A-14.0.

6. There are existing power lines that run north and south at the front of property over the existing fence. The power lines are estimated to be about 18' above grade. Will this be a problem for whenever the Owner goes to pull the pumps for maintenance? Sometimes a boom truck can be 18' tall.

Alabama Power will be relocating the power line that runs along the east property line (Lemoyne Ave) before construction starts, or shortly after. They plan to relocate these lines to the larger poles further away from our property. The G.C. is not responsible for this relocation.

7. Reference S-9.2. The callouts over the 8" and 12" slabs don't match notes 1 and 2 for the slabs. Please clarify.

The 8-inch and 12-inch slab callouts are correct. Note 1 should be revised to add "U.N.O." Note 2 should be revised to reflect the same slab reinforcing that is called out on the plan.

8. Regarding the Electrical Room CMU walls on the first floor, sheet A-2.0 calls out wall type D, which is 12" CMU according to the details on sheet A-15.0. Although, on sheet A-2.0 it looks like 8" CMU.

Sheet A-15.0 was updated to show 8-inch CMU wall. Refer to revised sheet A-15.0

9. Reference Appendix 'B', the Statement of Special Inspections. Please confirm that all of the inspections listed will be accomplished by Mark Weiss, and not the GC.

Special inspections, including concrete testing (air, compressive, etc.), special structural and geotechnical compaction testing, shall be conducted by a third-party testing company who works directly for the G.C. The selected testing/inspection company shall be certified to provide such testing/inspections and shall be approved by the owner. All testing services shall be paid by the G.C.

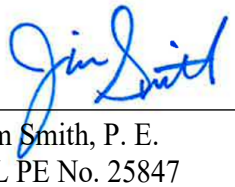
10. Plan Sheet S-3.0 states that the prestressed concrete tank (Process Basins) shall be required to have a 6-inch minimum wall thickness for the outer tanks. Please confirm if the inner tank wall requires the same 6-inch minimum wall thickness.

All prestressed concrete tank wall thickness shall be 6-in minimum.

11. Please confirm that the height of the hydrostatic wall bisecting the Digestor tank is 21"-0" tall.

Hydrostatic walls in the digestors are 21'-0" tall. Reference Sheets M-3.1, M-3.4, and M-4.0.

Ardurra,



Jim Smith, P. E.
AL PE No. 25847

All Bidders shall acknowledge receipt and acceptance of the Addendum with the Bid Package. Proposals submitted without acknowledgement or without this Addendum will be considered informal.

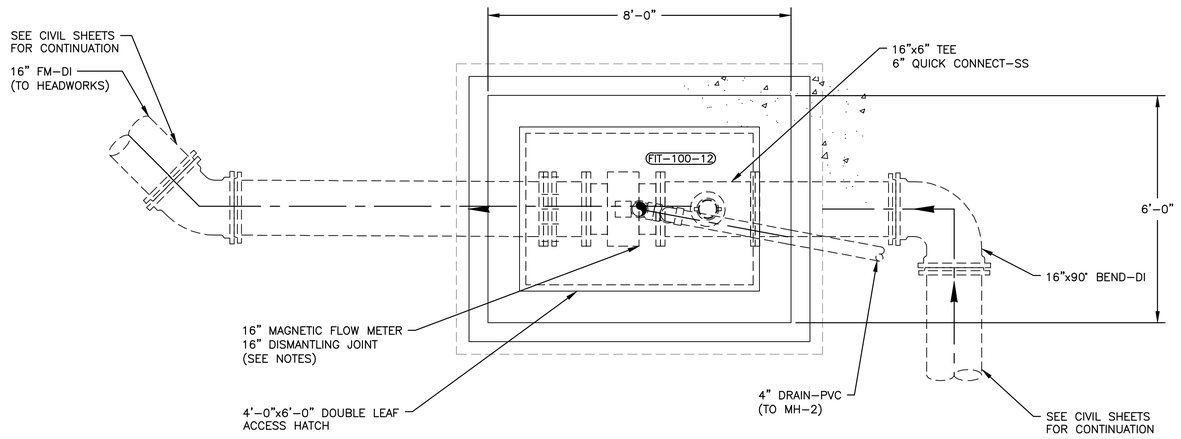
Receipt acknowledged and conditions agreed to this _____ day of _____, 2024.

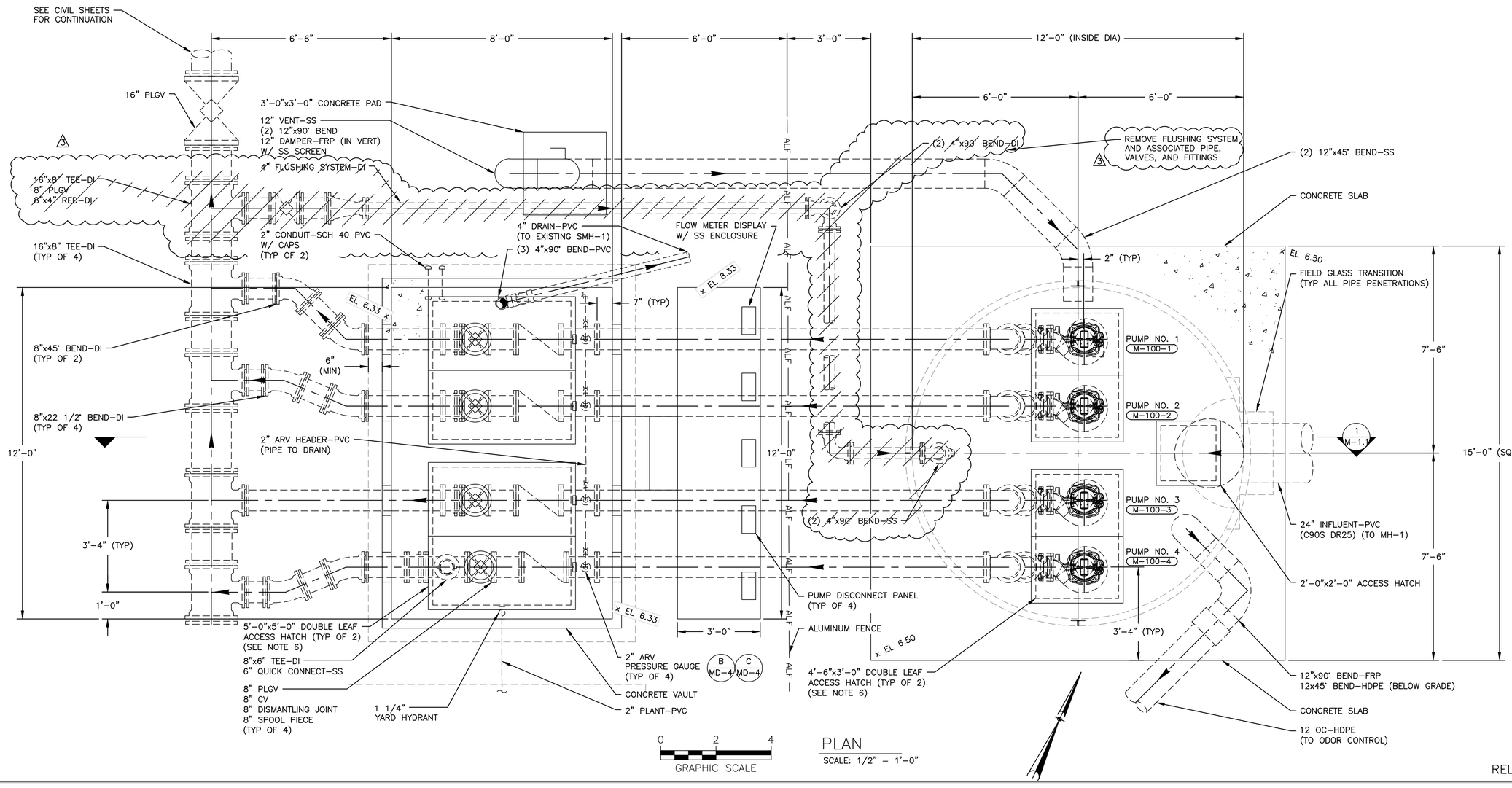
_____
Bidder

_____
By

NOTES:

1. PROVIDE UPSTREAM AND DOWNSTREAM STRAIGHT PIPE RUNS AS REQUIRED BY THE METER SUPPLIER.
2. PROVIDE 20" CLEARANCE FROM CENTERLINE OF PIPE TO FLOOR AND 12" MINIMUM CLEARANCE BETWEEN FLANGES AND VAULT SIDEWALLS.
3. MAGNETIC FLOW METER. FURNISH AND INSTALL 1" C EMPTY FROM MAGNETIC FLOW METER DISPLAY LOCATION TO MAGNETIC METER VAULT FOR SENSOR WIRE. SEE CIVIL FOR APPROXIMATE MAGNETIC METER VAULT LOCATION. VERIFY EXACT LOCATION PRIOR TO ANY ROUGHING. INSTALL WIRE FROM SENSOR TO TRANSMITTER AS REQUIRED.
4. PROVIDE (1) SPARE 2" CONDUIT PASS THROUGH CAPPED ON EACH SIDE.
5. ALL FLANGE BOLTS SHALL BE 316 SS.
6. SEE STRUCTURAL FOR REINFORCED OPENINGS DETAILS.





0 2 4
GRAPHIC SCALE

PLAN
SCALE: 1/2" = 1'–0"

RELEASE FOR BID

ENGINEER SEAL
ALABAMA LICENSED No. 25847 PROFESSIONAL ENGINEER JAMES N. SMITH 8/7/24

NO.	DATE	REVISION	DRAWN BY:	CHECKED BY:	APPROVED BY:
3	9/13	ADDENDUM 3	LB	SC	JS
			BL	BY	APVD
DESIGNED BY: SC					JS

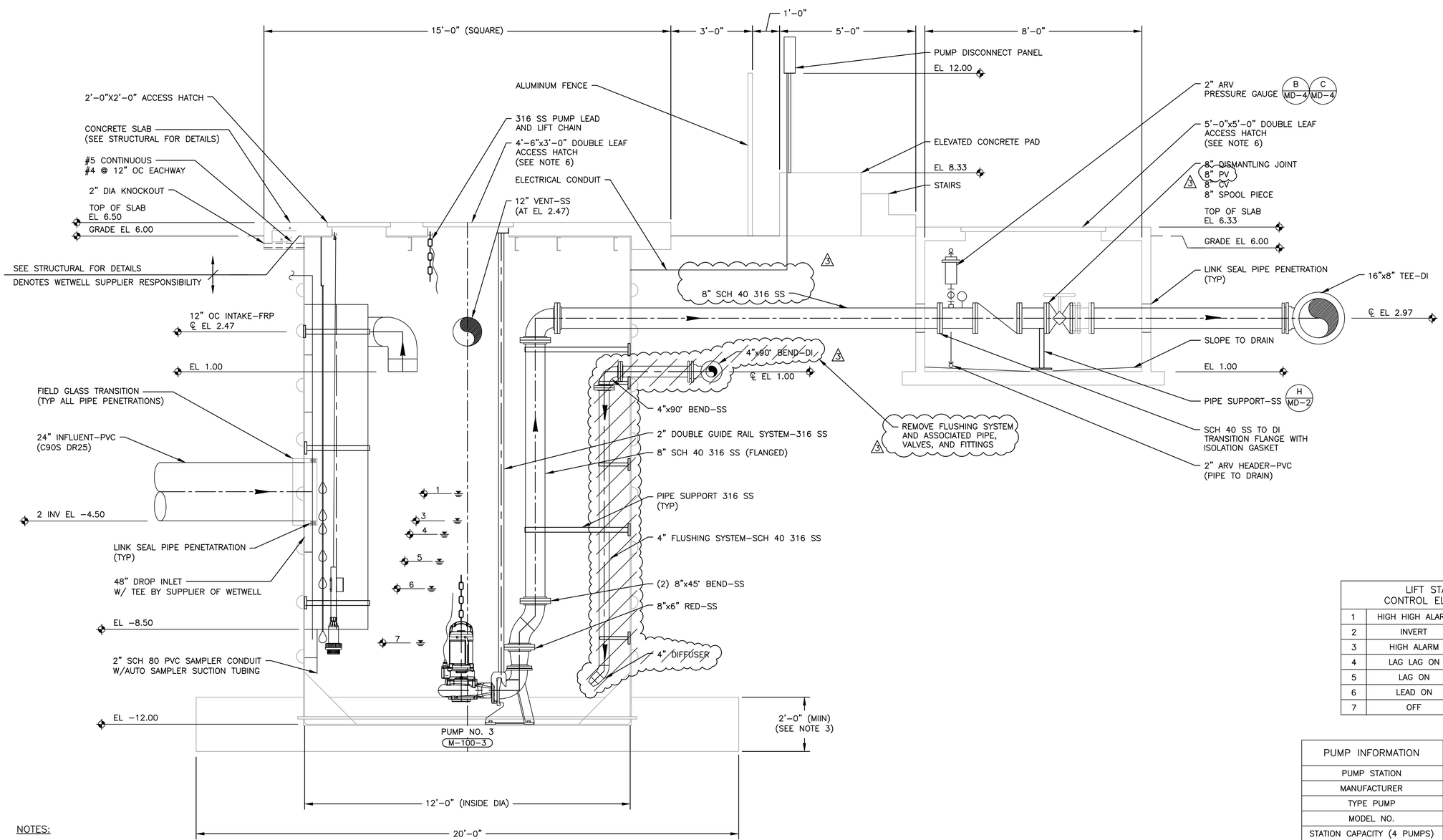
INFLUENT PUMP STATION AND FLOW METER BYPASS PLAN

ALOE BAY WATER QUALITY ENHANCEMENT
WASTEWATER TREATMENT FACILITY

Dauphin Island

ARDURRA
COLLABORATE. INNOVATE. CREATE.
200 CLINTON AVE. SUITE 601
HUNTSVILLE, ALABAMA 35801
(256)-203-9501

FILE	SEE LEFT
	VERIFY SCALE
	BAR IS ONE INCH ON ORIGINAL DRAWING (0 — 1")
DATE	AUGUST 2024
PROJ.	100200.32
DWG.	M-1.0



NOTES:

1. PUMP AND WETWELL SUPPLIER SHALL PROVIDE WETWELL, PUMPS, DISCHARGE PIPING, RAILS, SUPPORTS, PRE-FAB DROP STRUCTURE, ACCESS COVERS, FLOATS, LEVEL, SEALS AND ALL ASSOCIATED INTERIOR ITEMS FOR FULLY FUNCTIONAL PUMP STATION.
2. FRP WETWELL AND VALVE BOX SHALL MEET OR EXCEED ALL APPLICABLE ASTM REQUIREMENTS.
3. CONCRETE BASE AND ANCHORING FOR WETWELL SHALL BE CONSTRUCTED PER MANUFACTURER'S RECOMMENDATION AND SHALL BE SUFFICIENT TO PREVENT FLOTATION OF THE WETWELL FOR A GROUNDWATER ELEVATION EQUAL TO THE WETWELL TOP ELEVATION. PROPOSED DESIGN AND ANTI-FLOTATION CALCULATIONS SHALL BE SUBMITTED TO ENGINEER PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY THE SIZE OF ALL VALVES, FITTINGS, PIPE, AND APPURTENANCES AND PROVIDE PREFABRICATED CONCRETE VALVE VAULT WITH SUFFICIENT WIDTH, LENGTH, AND DEPTH TO ALLOW THE REQUIRED CLEARANCES AND PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES.
5. ALL ABOVE GROUND PIPING ABOVE 3" SHALL BE FLANGED. BELOW GROUND SHALL BE RESTRAINED JOINT.
6. SEE STRUCTURAL FOR REINFORCED OPENINGS DETAILS.

SECTIONAL ELEVATION 1
1/2" = 1'-0"
M-1.0

0 2 4
GRAPHIC SCALE

LIFT STATION CONTROL ELEVATIONS		
1	HIGH HIGH ALARM	EL -3.50
2	INVERT	EL -4.50
3	HIGH ALARM	EL -4.50
4	LAG LAG ON	EL -5.00
5	LAG ON	EL -6.00
6	LEAD ON	EL -7.00
7	OFF	EL -9.00

PUMP INFORMATION	WWTF INFLUENT PUMP STATION
PUMP STATION	VFD QUADPLEX
MANUFACTURER	KSB OR EQUAL
TYPE PUMP	---
MODEL NO.	KRTD 100-4031226XE62-S
STATION CAPACITY (4 PUMPS)	2850 GPM
IMPELLER SIZE & NO.	13.46
DISCHARGE SIZE (MIN.)	6 IN.
HP-RATED RPM	22.6 HP - 1180 RPM
VOLTAGE	460V/60HZ
MAX. PUMP HORSEPOWER EACH	30 HP (NOL)

VFD DESIGN CONDITIONS			
PUMP SPEED	PUMP CONDITION	PUMP CAPACITY	TOTAL HEAD
1180 RPM	NORMAL FLOW	950 GPM	51 FT
1180 RPM (3)	PEAK FLOW (TRIPLEX)	2850 GPM	63 FT
980 RPM	LOW FLOW	500 GPM	48 FT

RELEASE FOR BID

ENGINEER SEAL
ALABAMA LICENSED No. 25847 PROFESSIONAL ENGINEER JAMES N. SMITH 8/7/24

NO.	DATE	REVISION	DRAWN BY:	CHECKED BY:	APPROVED BY:
3	9/13	ADDENDUM 3	LB	SC	JS
DESIGNED BY: SC			BL		JS

INFLUENT PUMP STATION SECTION

ALOE BAY WATER QUALITY ENHANCEMENT
WASTEWATER TREATMENT FACILITY

Dauphin Island

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HUNTSVILLE, ALABAMA 35801
(256)-203-9501

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0 1"
DATE AUGUST 2024
PROJ. 100200.32
DWG. M-1.1

Basis of Design: ***LOUVERED WALL SYSTEM***
Atlas Industrial Horizontal Louvers; Provide and Install system Per Manufacturer Instruction

01 Trim Modification per Beam Depth Clarification

1 / A-8.0 East Elevation (Facing Street)

1/4" = 1'-0"

0 2 4 8 16Ft

RELEASED FOR BID

WALCOTT ADAMS VERNEUILLE ARCHITECTS
1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY	APVD.
01	9/12/24	Clarification During Bidding		

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY:

BUILDING ELEVATIONS

ALOE BAY WATER QUALITY ENHANCEMENT WASTEWATER TREATMENT FACILITY

Dauphin Island

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(256)-203-9501

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PROJ.	100200.32
DWG.	A-8.0

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01 Trim Modification per Beam Depth Clarification

Basis of Design: ***LOUVERED WALL SYSTEM***
Atlas Industrial Horizontal Louvers; Provide and Install system Per Manufacturer Instruction

1 / A-9.0 West Elevation (Facing Basins)

1/4" = 1'-0"

0 2 4 8 16Ft

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ARCHITECTS
1 SOUTH SCHOOL STREET
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(251) 928-6041

STATE OF ALABAMA
REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY
01	9/12/24	Clarification During Bidding	

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY: APVD

BUILDING ELEVATIONS

ALOE BAY WATER QUALITY ENHANCEMENT
WASTEWATER TREATMENT FACILITY

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(256) 301-9501

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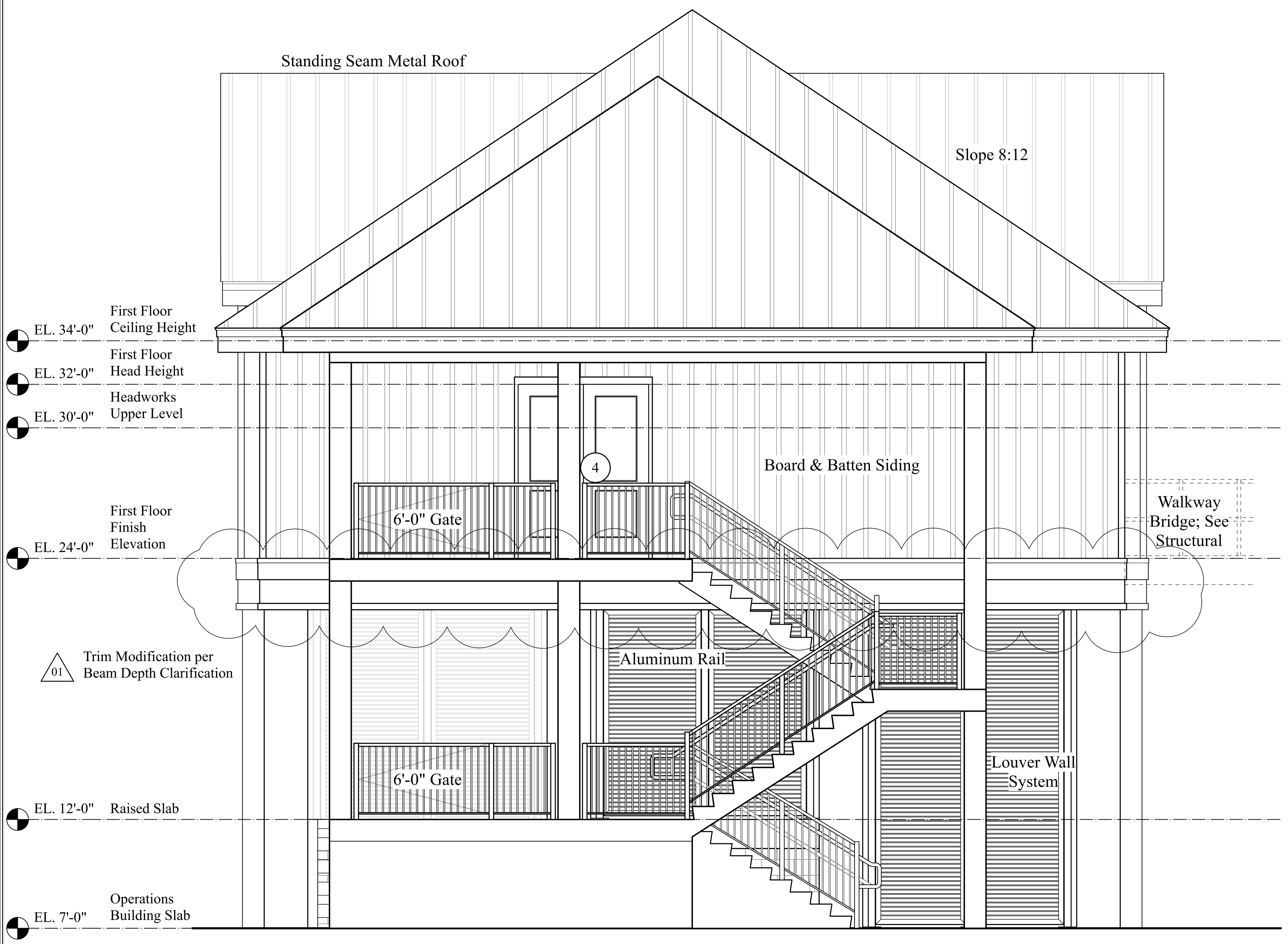
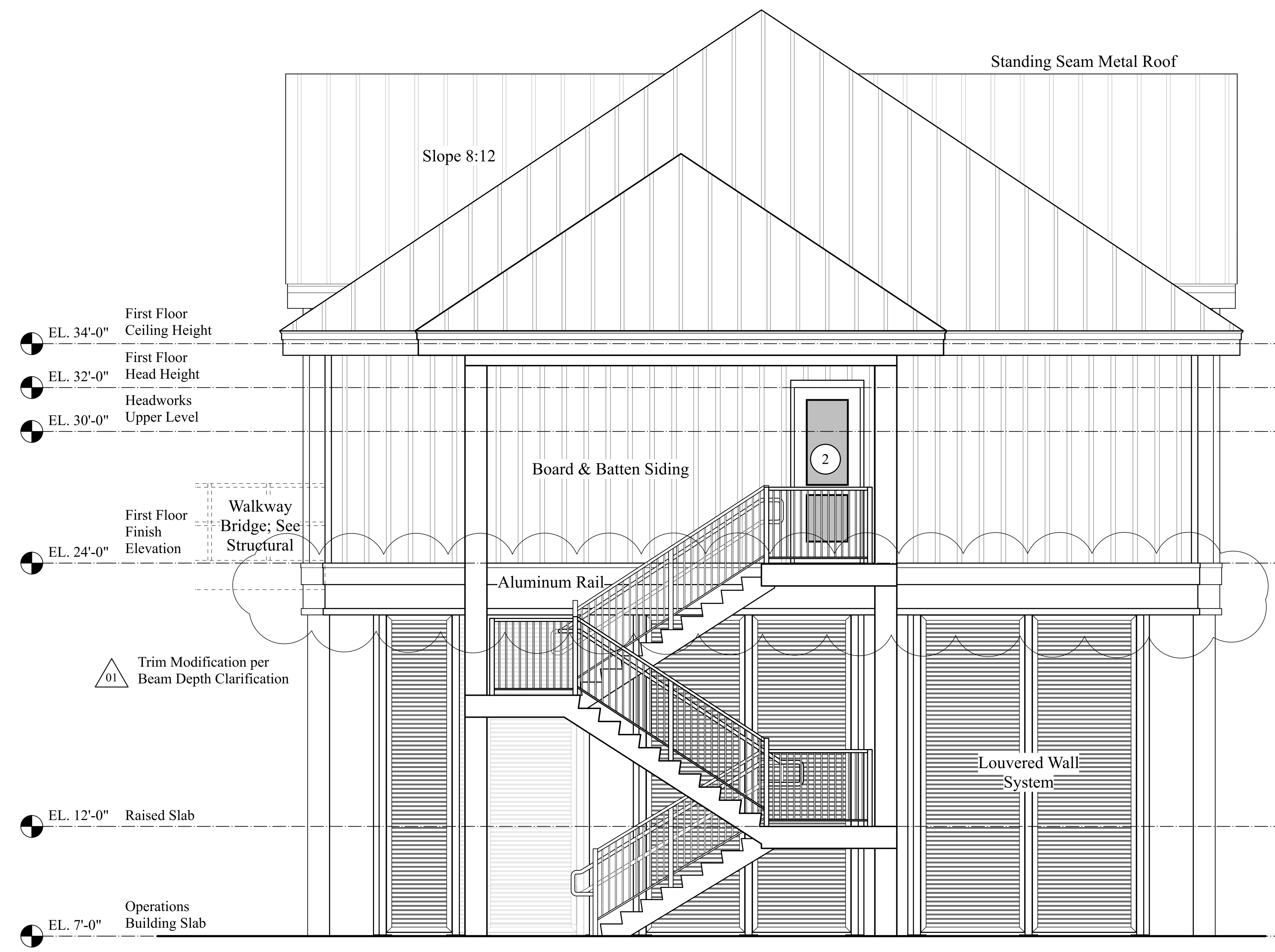
DWG.	A-9.0



Basis of Design: ***LOUVERED WALL SYSTEM***
Atlas Industrial Horizontal Louvers; Provide and Install system Per Manufacturer Instruction

1 / A-10.0 North Elevation (Facing Bridge)
1/4" = 1'-0"



Basis of Design: ***LOUVERED WALL SYSTEM***
Atlas Industrial Horizontal Louvers; Provide and Install system Per Manufacturer Instruction

2 / A-10.0 South Elevation
1/4" = 1'-0"

0 2 4 8 16Ft

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1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY	APVD.
01	9/12/24	Clarification During Bidding		

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY:

BUILDING ELEVATIONS

ALOE BAY WATER QUALITY ENHANCEMENT WASTEWATER TREATMENT FACILITY

Dauphin Island

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DWG.	A-10.0

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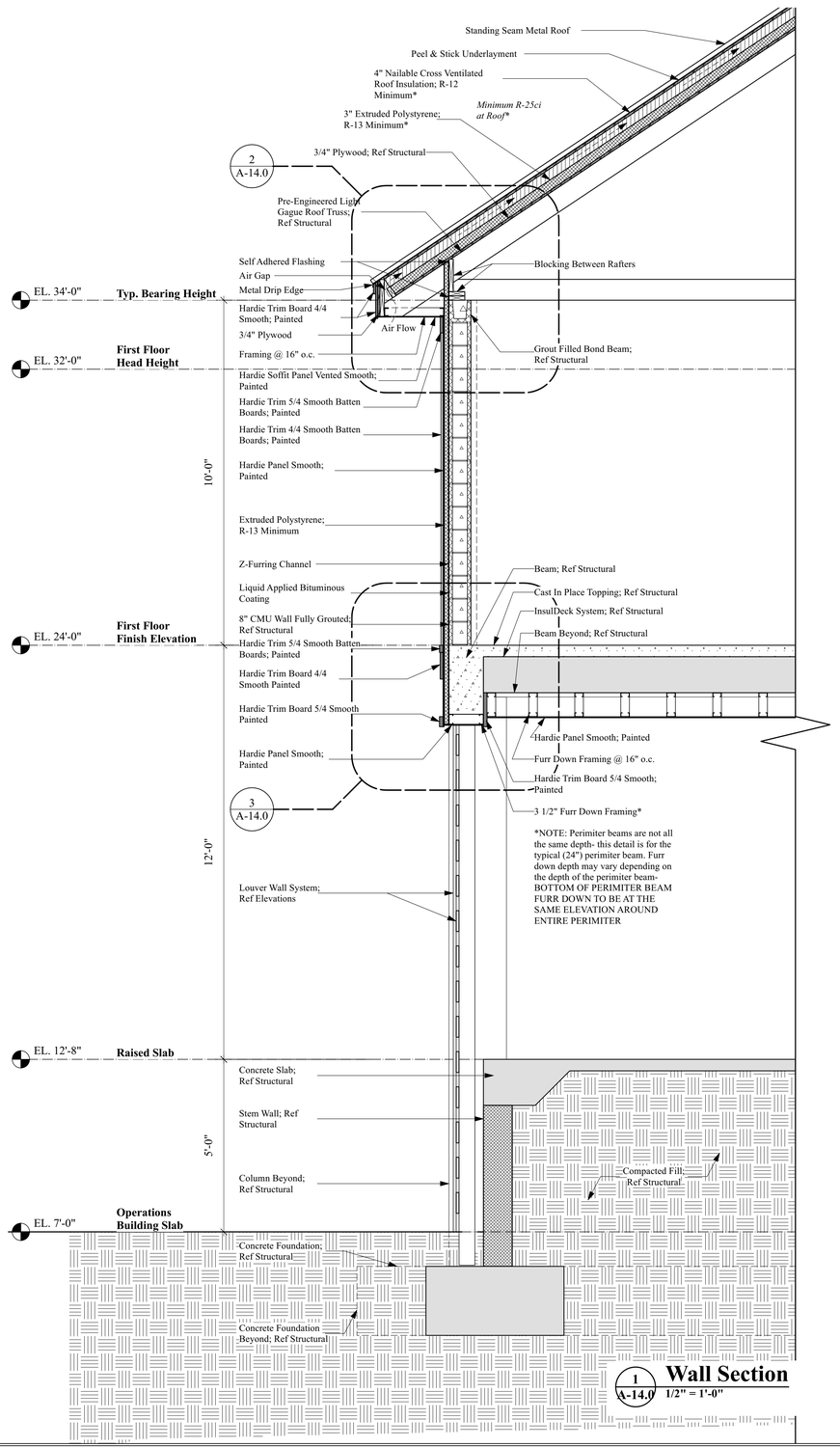
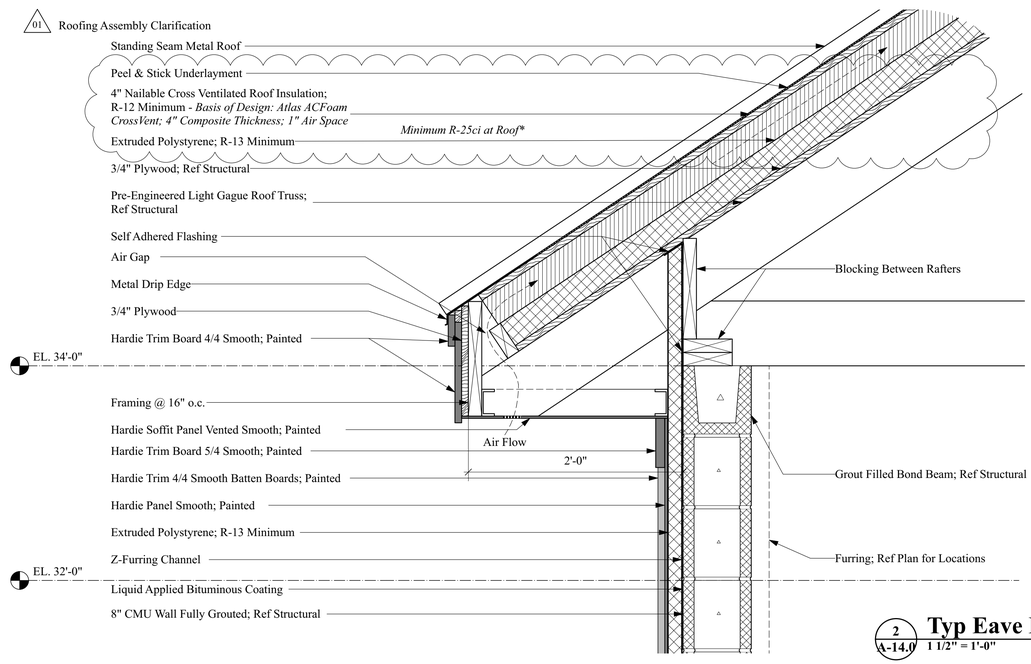
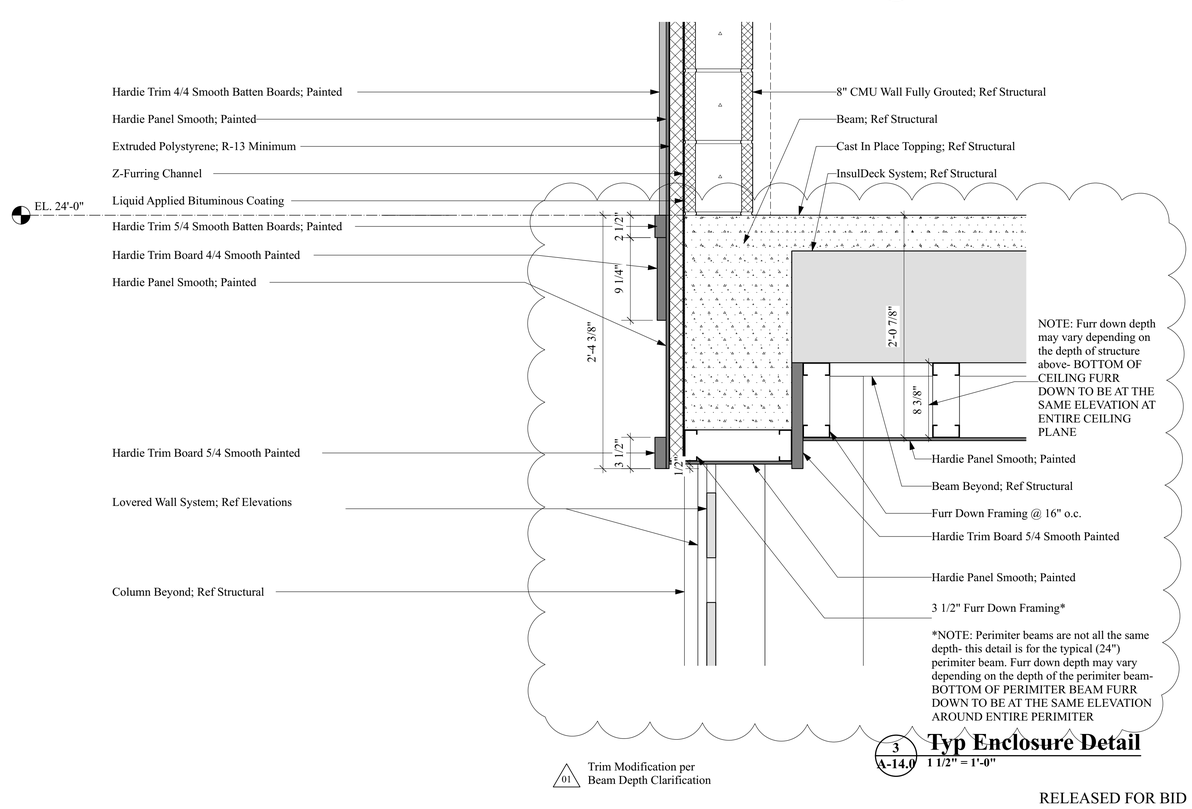


1 A-14.0 Wall Section
1/2" = 1'-0"

01 Roofing Assembly Clarification



2 A-14.0 Typ Eave Detail
1 1/2" = 1'-0"



3 A-14.0 Typ Enclosure Detail
1 1/2" = 1'-0"

01 Trim Modification per Beam Depth Clarification

RELEASED FOR BID

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ARCHITECTS
1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA
REGISTERED ARCHITECTS
09/12/2024

NO	DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPD BY:	APPROVED BY:
01	9/12/24	Clarification During Bidding				

REVISION

WALL SECTION & DETAILS

ALOE BAY WATER QUALITY ENHANCEMENT
WASTEWATER TREATMENT FACILITY

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HUNTSVILLE, ALABAMA 35801
(256)-203-9501

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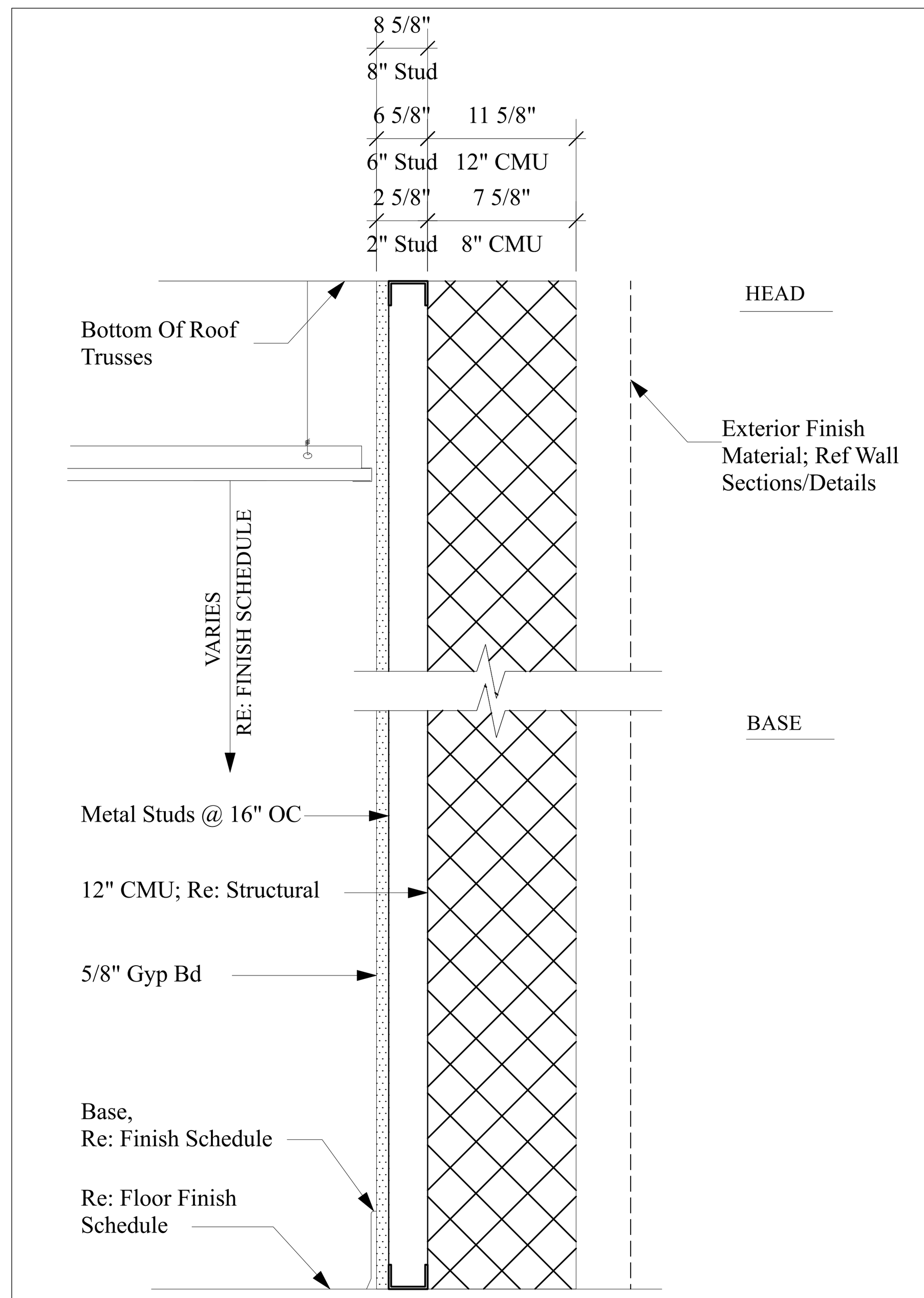
DWG.	A-14.0



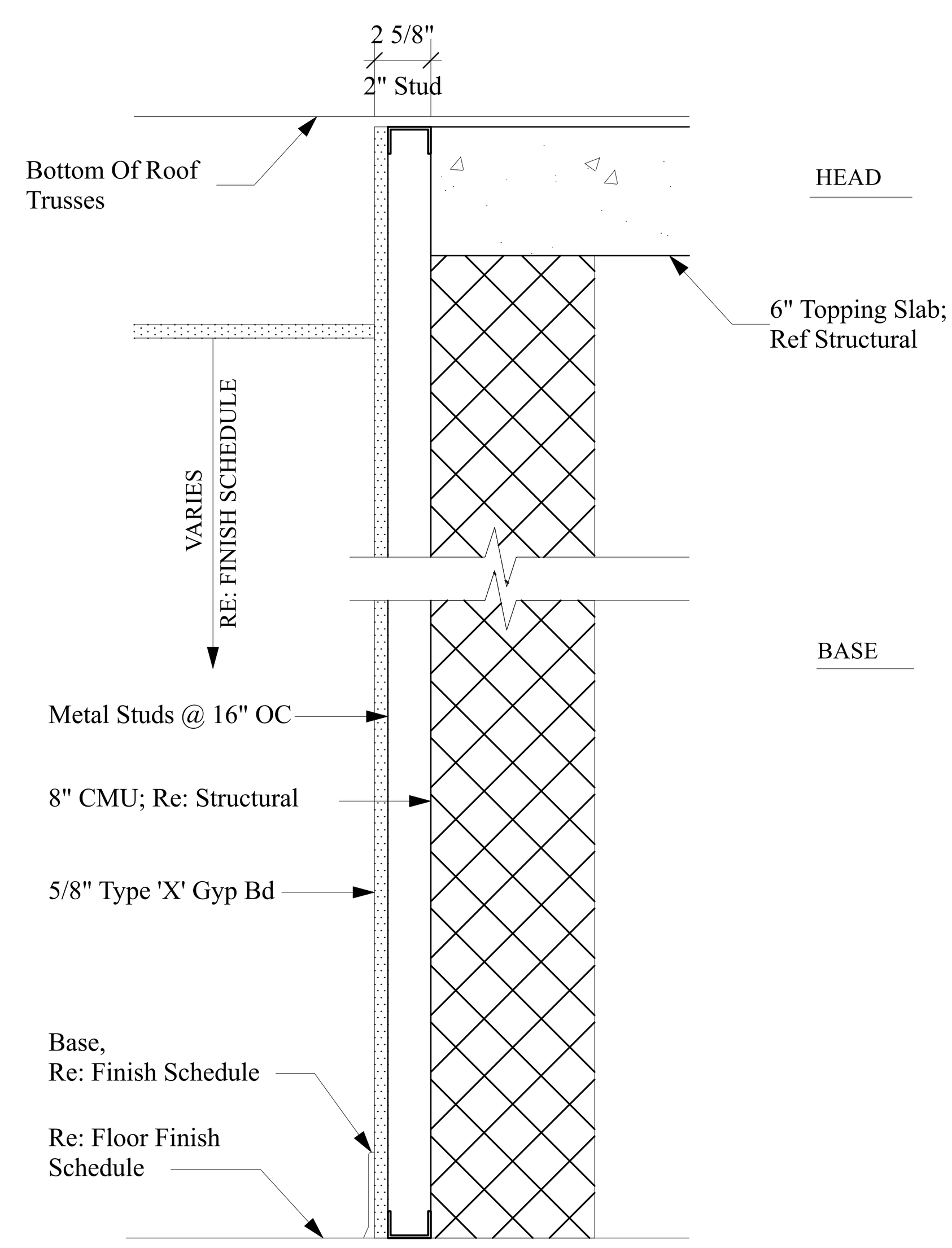
A 12" CMU WALL WITH METAL STUDS & GYP BD INT
2" METAL STUDS @ 16" OC (NO RATING)

A1 12" CMU WALL WITH METAL STUDS & GYP BD INT
6" METAL STUDS @ 16" OC (NO RATING)

A2 8" CMU WALL WITH METAL STUDS & GYP BD INT
2" METAL STUDS @ 16" OC (NO RATING)

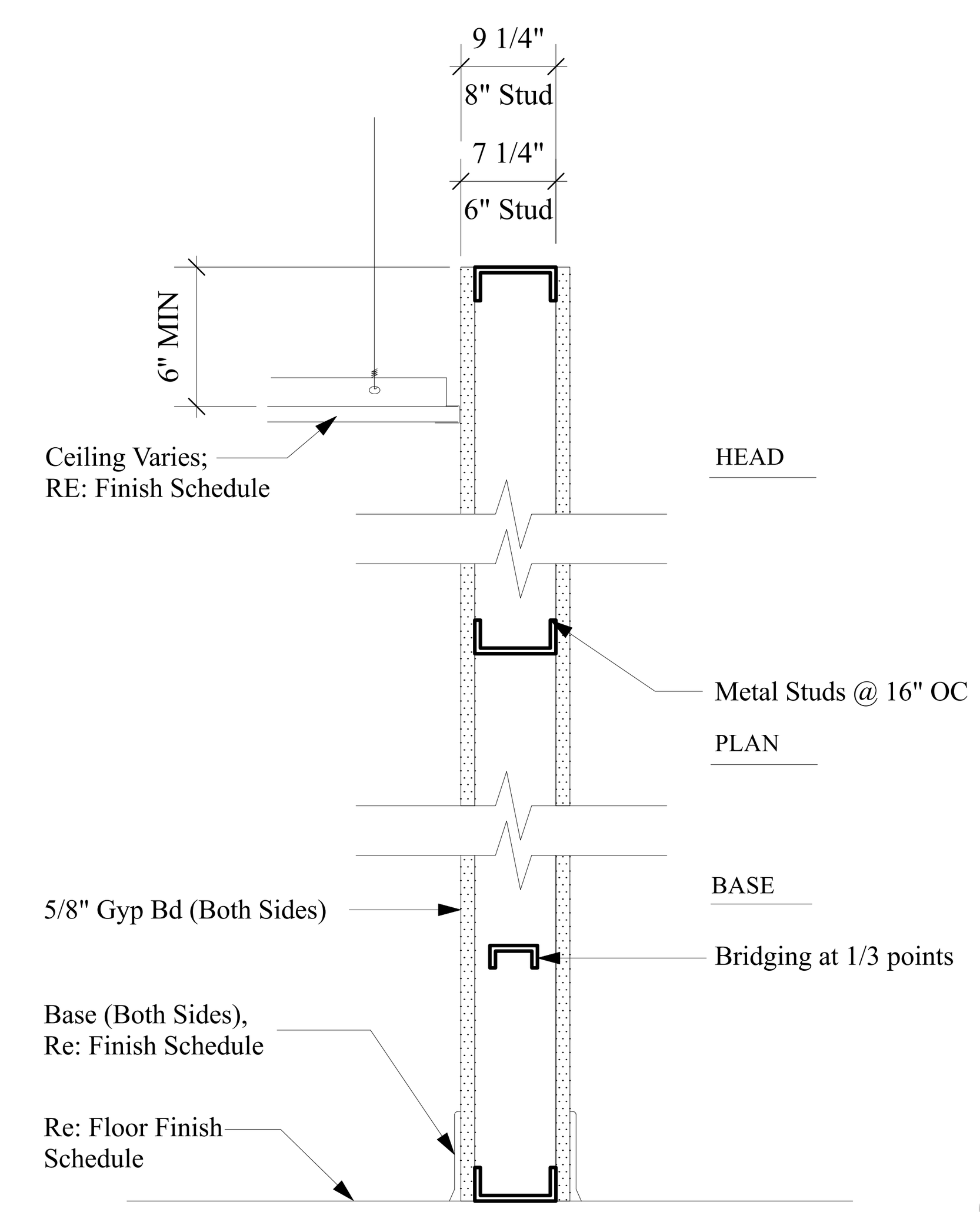
A3 8" CMU WALL WITH METAL STUDS & GYP BD INT
8" METAL STUDS @ 16" OC (NO RATING)

A4 8" CMU WALL - NO METAL STUDS OR GYP BD INT



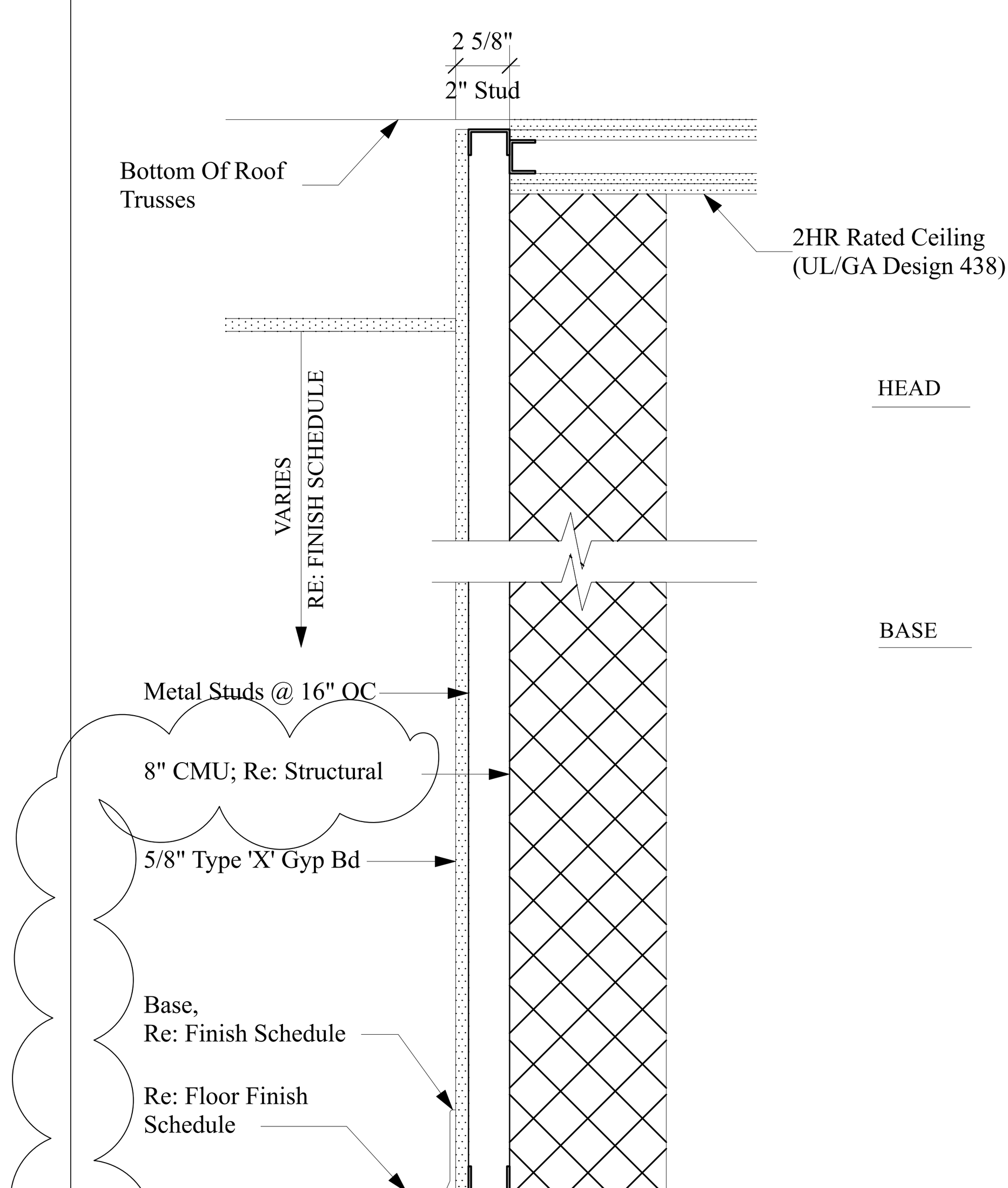
B 8" CMU WALL WITH METAL STUDS & GYP BD INT
1HR RATING - 2" METAL STUDS @ 16" OC

B1 8" CMU WALL - NO METAL STUDS OR GYP BD INT
1HR RATING



C DRYWALL
(6" STUDS) NO RATING

C1 DRYWALL
(8" STUDS) NO RATING



D 8" CMU WALL WITH METAL STUDS & GYP BD INT
2HR RATING - 2" METAL STUDS @ 16" OC

01 Block Thickness Clarification

RELEASED FOR BID

WALCOTT
ADAMS
VERNEUILLE
ARCHITECTS
1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY	APVD
01	9/12/24	Clarification During Bidding		

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY:

WALL TYPES

ALOE BAY WATER QUALITY ENHANCEMENT WASTEWATER TREATMENT FACILITY

Dauphin Island

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200 CLINTON AVE., SUITE 601
HUNTSVILLE, ALABAMA 35801
(256)-203-9501

FILE SEE LEFT
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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DATE AUGUST 2024
PROJ. 100200.32
DWG. A-15.0

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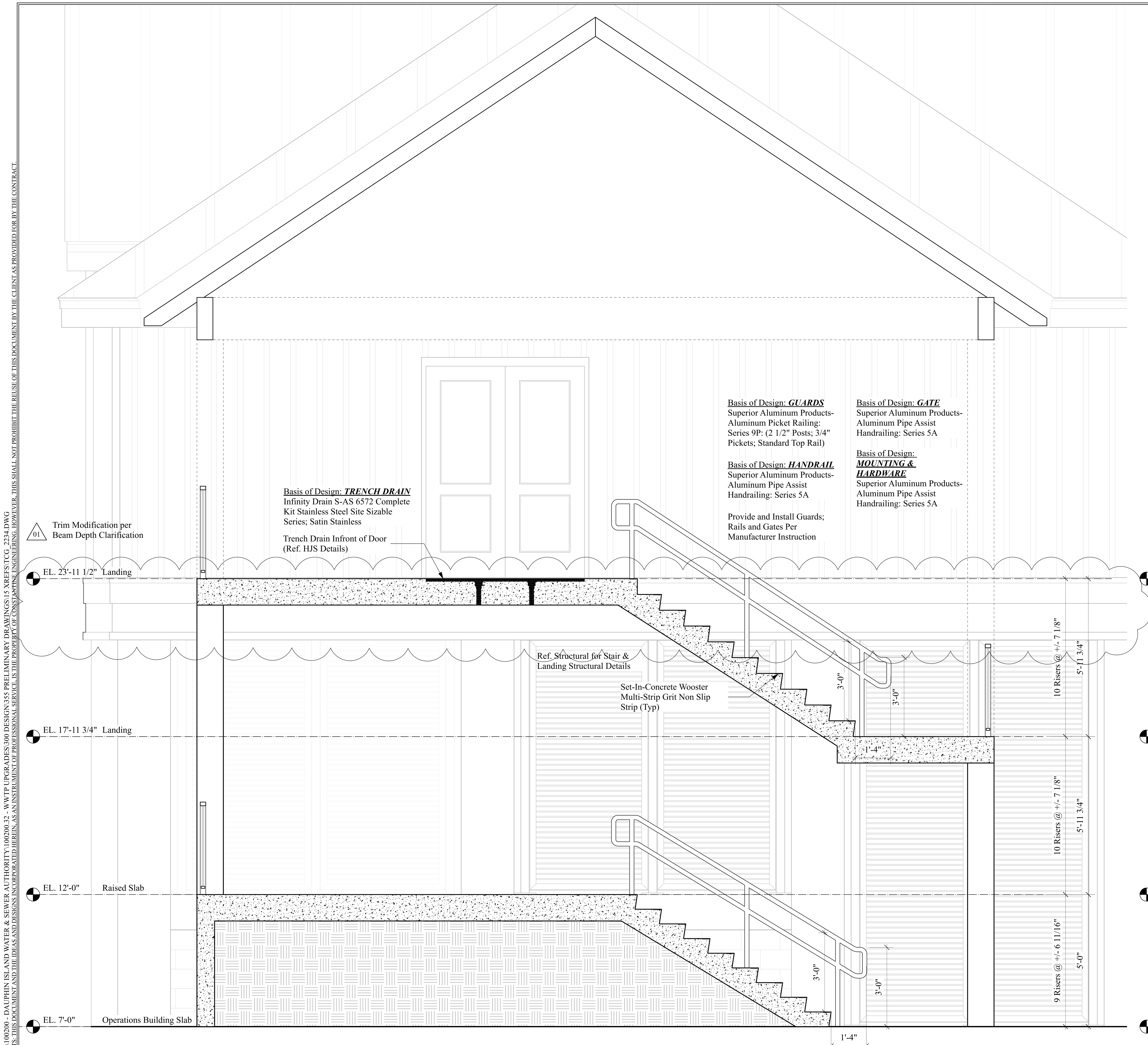
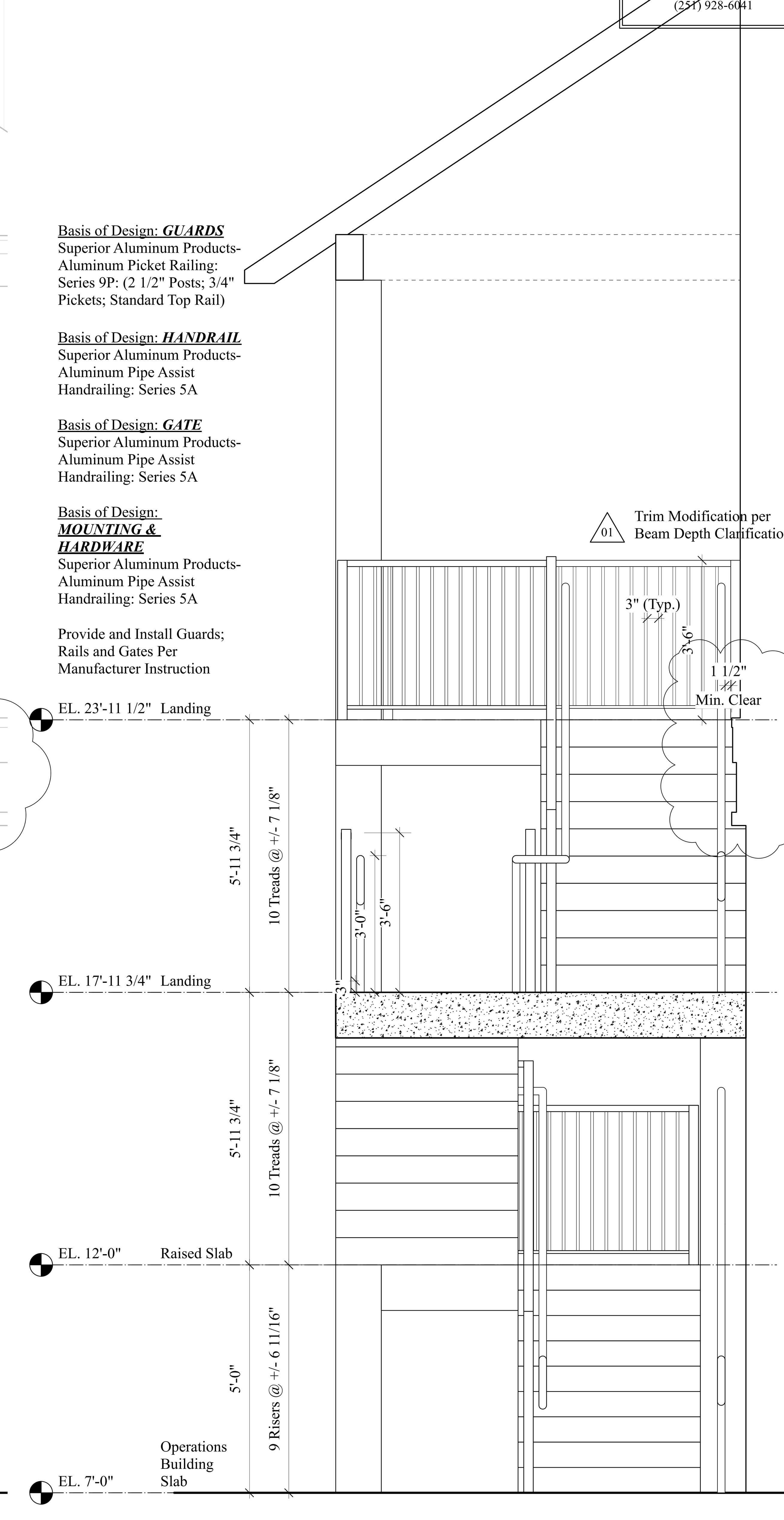


1 / A-17.0 **North Stair Section**
1/2" = 1'-0"



2 / A-17.0 **North Stair Section**
1/2" = 1'-0"

RELEASED FOR BID

WALCOTT ADAMS VERNEUILLE ARCHITECTS
1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY	APVD.
01	9/12/24	Clarification During Bidding		

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY:

STAIR DETAILS

ALOE BAY WATER QUALITY ENHANCEMENT WASTEWATER TREATMENT FACILITY

Dauphin Island

ARDURRA
COLLABORATE. INNOVATE. CREATE.
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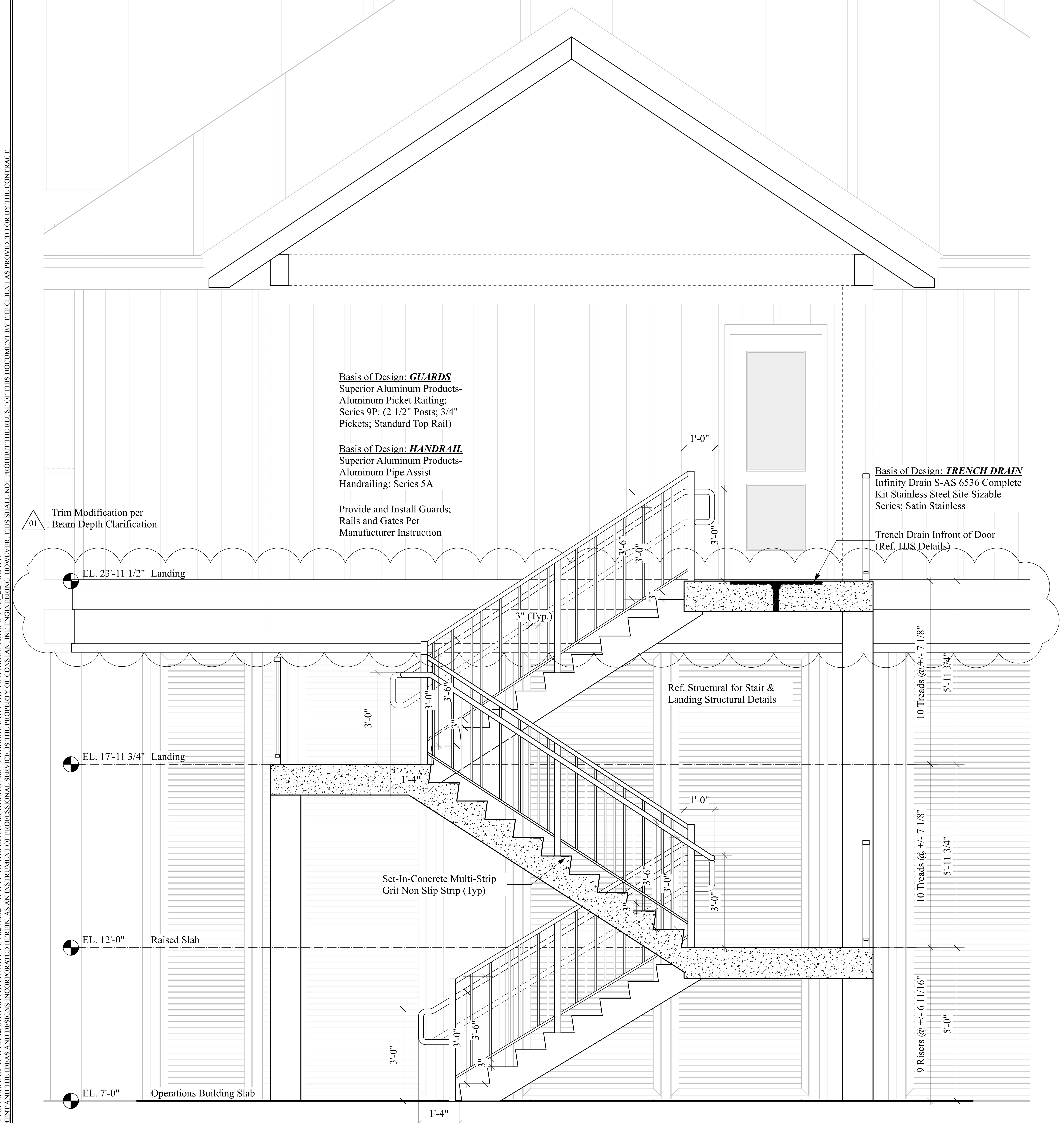
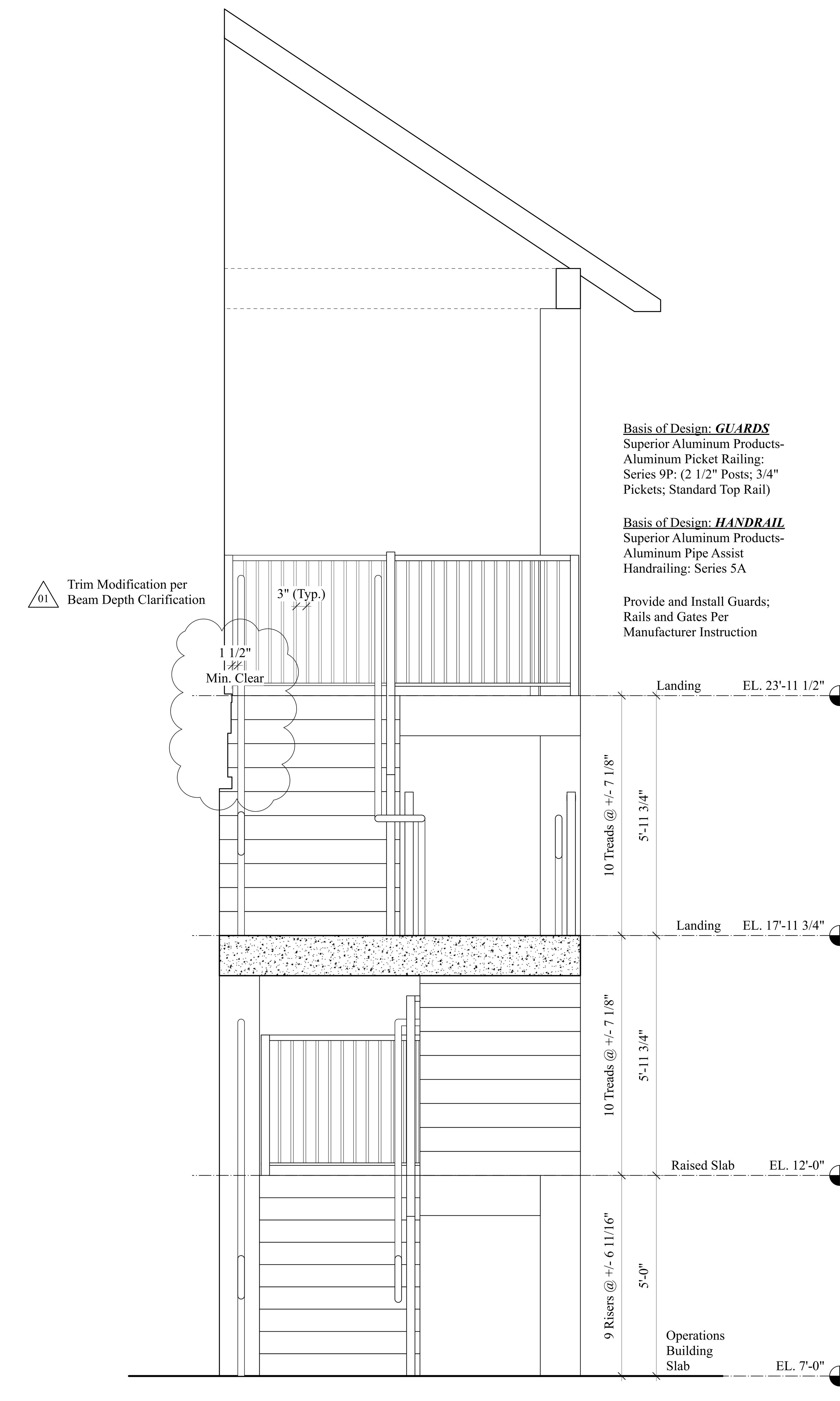


1 A-19.0 **South Stair Section**
1/2" = 1'-0"



2 A-19.0 **South Stair Section**
1/2" = 1'-0"

RELEASED FOR BID

WALCOTT ADAMS VERNEUILLE ARCHITECTS
1 SOUTH SCHOOL STREET
FAIRHOPE, AL 36532
(251) 928-6041

STATE OF ALABAMA REGISTERED ARCHITECTS
09/12/2024

NO.	DATE	REVISION	BY	APVD
01	9/12/24	Clarification During Bidding		

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

STAIR DETAILS

ALOE BAY WATER QUALITY ENHANCEMENT WASTEWATER TREATMENT FACILITY

ARDURRA
COLLABORATE. INNOVATE. CREATE.
200 CLINTON AVE., SUITE 601
HUNTSVILLE, ALABAMA 35801
(256)-203-9501

FILE SEE LEFT
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
DATE AUGUST 2024
PROJ. 100200.32
DWG. A-19.0