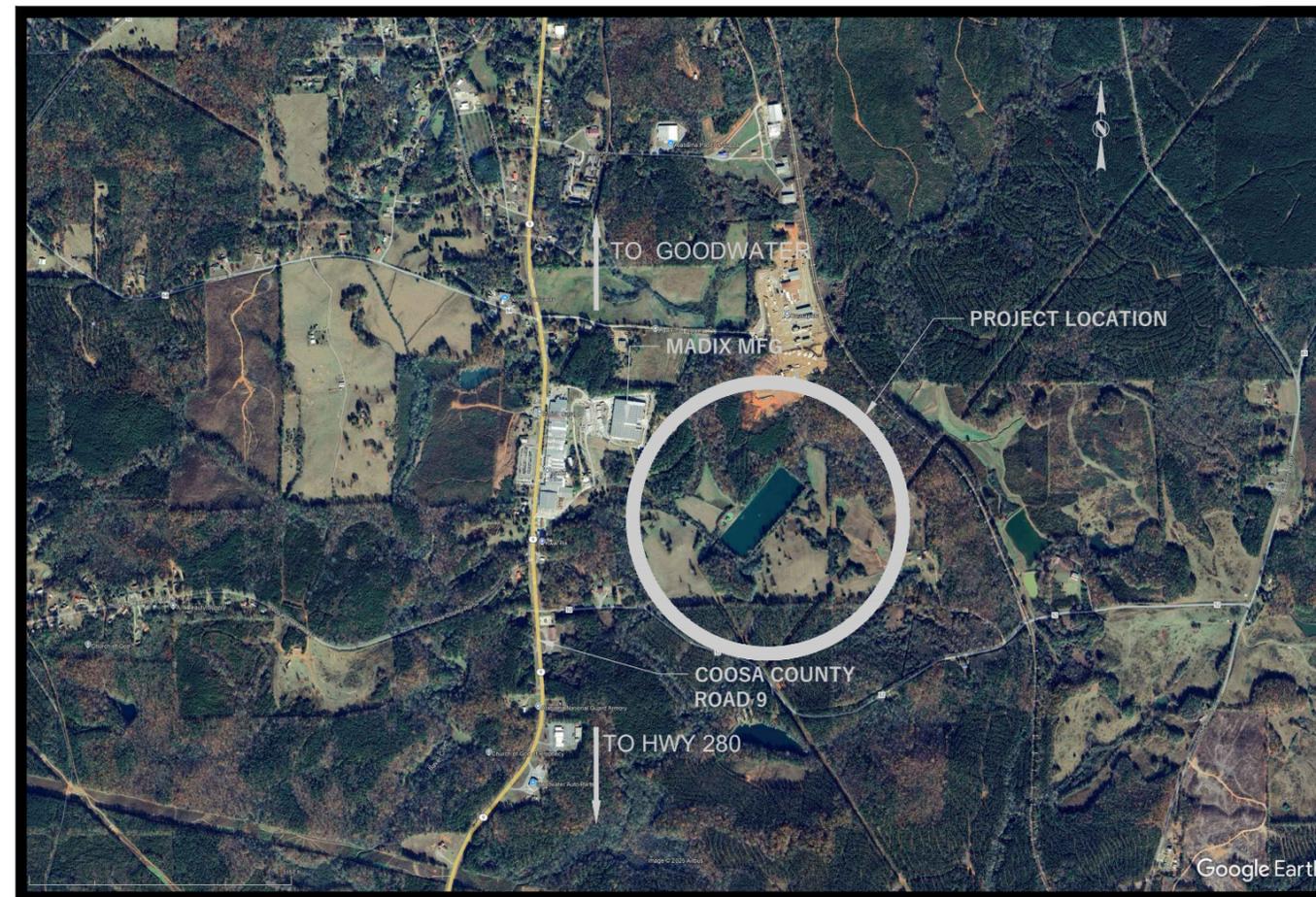


THE CITY OF
GOODWATER, ALABAMA

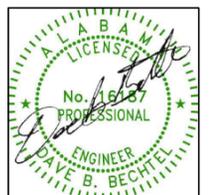
**LAGOON IMPROVEMENTS
DWSRF PROJECT NO. CS010623-02
CONTRACT NO. 2**



VICINITY MAP
CONTRACT NO. GW23 094

2024

ENGINEER:
UTILITY ENGINEERING CONSULTANTS, LLC.
135 GEMINI CIRCLE, SUITE 211
HOMWOOD, ALABAMA 35209
PHONE : (205)951-3838



STRUCTURES

- Unpaved Road or Driveway
- Paved Road or Driveway
- Paved Road with Gutter
- Proposed Bridge, Box Culvert, or Storm Drain with Headwall (Size and Type Structure Noted)
- Existing Bridge, Box Culvert, or Storm Drain (Size and Type Structure Noted)
- Walk Bridge
- Railroad Track Single
- Railroad Track Double
- Outdoor Advertising Sign
- Masonry Wall (Note Type)
- Mailbox (Noted M.B.)
- Clothes Lines and Poles (Noted)
- Well
- Levee or Earth Dam
- Wood Fence
- Hog Wire or Barbed Wire Fence
- Chain Link Fence
- Drop Inlet (Noted)
- Electric Light
- Gas Light
- Pipe in Place (Note Size and Type of Pipe)
- Traffic or Street Sign
- Outbuilding (Dimension to Scale)
- Air Conditioner, Heat Pump, Etc.
- Guardrail
- Pavement Replacement

NATURAL

- Trees (Draw dot to scale of tree)
- Hedges or Shrubbery
- Shrub
- Flower Bed, Garden, or Rock Garden (Noted)
- Lake or Pond
- Swamp, Marsh, Wetlands, Etc.
- Flowing Stream (Arrow indicates direction of flow)
- Dry Ditch or Stream
- Earth
- Rock

MISCELLANEOUS

- Interstate Highway
- United States Highway
- State Highway
- County Highway

SURVEY

- 0 5 10 15
- Center Line Pipe Location
- Land Tie (Center Line P.O.T. Sta., Angle to Center Line from Land Line, and Distance to Corner Noted)
- Right of Way (Type Noted—Acq'd, Req'd, Etc.)
- Permanent Easement
- Property Iron (Size and Type Noted)
- Property Line
- Section Corner or ? Section Corner Iron (Size, Type, and Description Noted)
- ? or 1/4-1/4 Section Line
- Section Line
- Right of Way Monuments (Noted for Existing)
- Construction Limits (Temporary Easement)
- Horizontal Curve (P.C., P.I., P.T. Stations, Length, Tangent, Radius, Central Angle, and Degree of Curve Noted)
- Vertical Curve (V.P.C., V.P.I., V.P.T. Stations, Elevation of V.P.I., Length, and % Grade on Tangents)
- City and Town Limits (Noted)
- Original Lot Lines
- Land Hooks
- Denotes Tract No. For R.O.W. Acquisition Purposes Only

SHEET INDEX

NO.	REFERENCE NO.	SHEET NAME
1		COVER SHEET
2		SYMBOLS SHEET
3		ELECTRICAL SYMBOLS
4		EXISTING LAGOON CONDITIONS
5		PROPOSED MODIFICATIONS
6		MCC PANEL
7		UV DETAILS
8		PIPE BRIDGE

TYPICAL LINE DETAILS

- NEW
- EXISTING
- FUTURE

PIPE FITTING SYMBOLS

- (A) 90° ELBOW
- (B) 90° BASE ELBOW
- (C) 90° LONG RADIUS ELBOW
- (D) 90° REDUCING ELBOW
- (E) 45° ELBOW
- (F) 22 1/2° ELBOW
- (G) 11 1/4° ELBOW
- (H) TEE
- (J) CROSS
- (K) 90° SIDE OUTLET ELBOW
- (L) SIDE OUTLET TEE
- (M) WYE
- (N) CONCENTRIC REDUCER
- (O) ECCENTRIC REDUCER
- (P) BLIND FLANGE
- (Q) MECHANICAL JOINT PLUG
- (R) VICTAULIC COUPLING
- (S) MERCER EXPANSION JOINT
- (T) FLANGED COUPLING ADAPTER w/ THRUST TIES
- (U) GROOVED END IPS PIPE
- (V) RETAINER GLANDS
- (W) FLARE 90° ELBOW
- (X) FLARE CASTINGS
- (WP) WALL PIPE
- (FP) FLOOR PIPE
- (WS) WALL SLEEVE
- (FS) FLOOR SLEEVE

UTILITIES

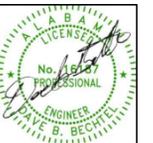
- Proposed Sanitary Sewer Manhole
- Existing Sanitary Sewer Manhole
- Existing Sanitary Sewer Gravity Line (Tick Upstream Side)
- Existing Sanitary Sewer Force Line (Arrow Indicates Flow)
- Utility Manhole (Note Type in Circle—P, T, Etc.)
- Power Junction Box
- Power Pole
- Light Pole (Note Type)
- High Voltage Transmission Pole or Tower
- Underground Power Conduit
- Overhead Power Lines
- Telephone Junction Box
- Telephone Pole
- Underground Telephone Conduit
- Overhead Telephone Lines
- Combination Pole
- Overhead Telephone and Power Lines
- Guy Pole
- Utility Pole Anchor
- Gas Line Marker (Noted)
- Gas Meter
- Gas Line (Note Diameter of Pipe)
- Valve (Note Gas or Water)
- Water Line (Note Diameter of Pipe)
- Water Meter
- Fire Hydrant
- Air Release Valve
- House Service Connections
- Storm Sewer

ABBREVIATIONS

- | | | | |
|-----------------------|------------|--------------------------------|------------|
| Acquired | Acq'd | Linear Feet | L.F. |
| Acre | Ac. | Point on Curve | P.O.C. |
| Bench Mark | B.M. | Point of Curve | P.C. |
| Bituminous Coated | | Point of Intersection | P.I. |
| Corrugated Metal Pipe | B.C.C.M.P. | Point of Tangent | P.T. |
| Brick Residence | Br. Res. | Point on Tangent | P.O.T. |
| Building | Bldg. | Property Line | PL |
| Carrying Capacity | C.C. | Railroad | R.R. |
| Cast Iron Pipe | C.I.P. | Range | R. |
| Center Line | CL | Right of Way | R.O.W. |
| Concrete | Conc. | Required | Req'd. |
| Corner | Cor. | Reinforced Concrete Pipe | R.C.P. |
| Cubic Yard | C.Y. | Sanitary Sewer | San. Sew. |
| Curb and Gutter | C&G | Section | Sec. |
| Design Flow | D.F. | Shoulder | Shldr. |
| Distance | Dist. | Side Drain | S.D. |
| Double | Dbl. | Square Yard | S.Y. |
| Drainage Area | D.A. | Station | Sta. |
| Ductile Iron | D.I. | Storm Sewer | Stm. Sew. |
| Ductile Iron Pipe | D.I.P. | Street | St. |
| Easement | Esmt. | Tangent to Curve | Tan. to C. |
| Elevation | El. | Township | T. |
| Flow Line | F.L. | Valley Gutter | V.G. |
| Frame Residence | Fr. Res. | Vertical | Vert. |
| Gallons Per Minute | G.P.M. | Vertical Point of Curve | V.P.C. |
| Gas Meter | G.M. | Vertical Point of Intersection | V.P.I. |
| Gas Valve | G.V. | Vertical Point of Tangent | V.P.T. |
| Headwall | Hdwl. | Vitrified Clay Pipe | V.C.P. |
| High Water | H.W. | Water Meter | W.M. |
| Horizontal | Horiz. | Water Valve | W.V. |
| Junction | Jet. | Wing Wall | W.W. |
| Junction Box | Jet. Box | Yard | Yd. |

CONTRACTOR NOTES

THE TYPE, SIZE, LOCATION AND DEPTH OF ALL PUBLIC UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. LOCATIONS MAY BE ASCERTAINED BY CONTACTING ALABAMA LINE LOCATION CENTER @ 1-800-292-8525. THE LOCATIONS OF HOUSE SERVICES FOR UTILITIES ARE NOT SHOWN, UNLESS NOTED OTHERWISE



GOODWATER, ALABAMA
 WATER WORKS AND SEWER BOARD
 LAGOON IMPROVEMENTS
 DWSRF PROJECT NO. CS010623-02
 CONTRACT NO. 2

STANDARD SYMBOLS

UFC Utility Engineering Consultants, LLC
 130 Southwest Drive, Suite 100, Homewood, Alabama 35209

DESIGNED DBB	DRAWN RCM	SCALE AS NOTED	DATE APRIL, 2025
APPROVED <i>David Beckwith</i>	REFERENCE	JOB NO. GW23 094	
SHEET 2		OF 8	

NO.	DATE	REMARKS	BY
REVISIONS			



GOODWATER, ALABAMA
 WATER WORKS AND SEWER BOARD
 LAGOON IMPROVEMENTS
 DWSRF PROJECT NO. CS010623-02
 CONTRACT NO. 2

 Utility Engineering Consultants, LLC <small>130 Southwest Drive, Suite 100 Homewood, Alabama 35209</small>	DESIGNED DBB	DRAWN RCM	SCALE AS NOTED	DATE APRIL, 2025
	APPROVED <i>Dave S. Seche</i>	REFERENCE	JOB NO. GW23 094	
SHEET 4 OF 8				

EXISTING LAGOON CONDITIONS

NO.	DATE	REMARKS	BY
REVISIONS			

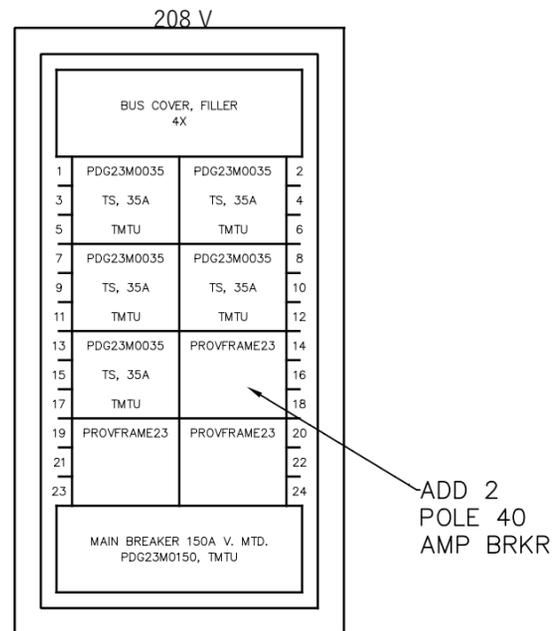
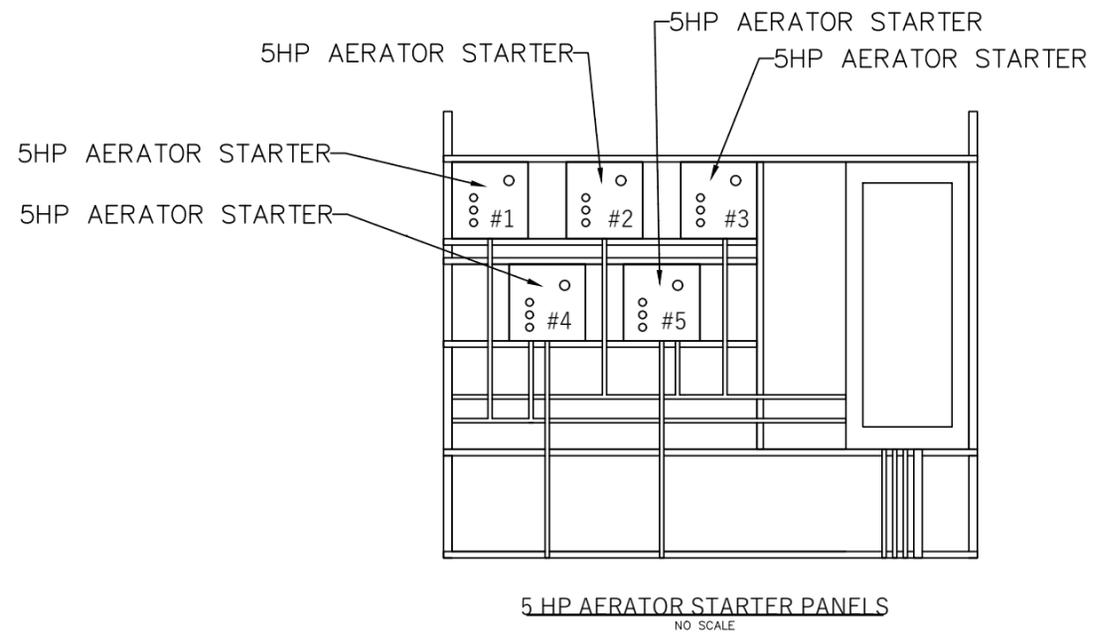
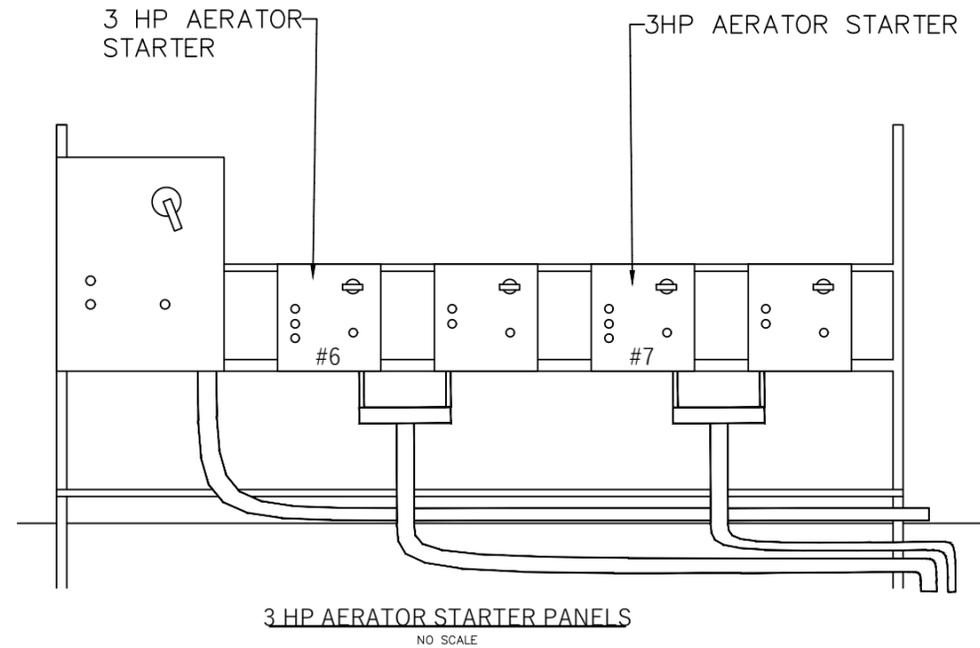


GOODWATER, ALABAMA
 WATER WORKS AND SEWER BOARD
 LAGOON IMPROVEMENTS
 DWSRF PROJECT NO. CS010623-02
 CONTRACT NO. 2
**PROPOSED LAGOON
 MODIFICATIONS**

UFC Utility Engineering Consultants, LLC
 130 Southwest Drive, Suite 100
 Homewood, Alabama 35209

DESIGNED DBB	DRAWN RCM	SCALE AS NOTED	DATE APRIL, 2025
APPROVED <i>David B. Beatty</i>		REFERENCE	JOB NO. GW23 094
		SHEET 5 OF 8	

NO.	DATE	REMARKS	BY
REVISIONS			



MCC - 1						
UNIT NO.	NAMEPLATE	DESCRIPTION 60A SEC. BKR.	CLASS	STARTER SIZE HP/FLA WIRE DIAG.	BKR/SW POLES TRIP/CLIP	UNIT FEATURES
4B	AERATOR	FVNR STARTER SIZE 1 (HMCP)	F206	1 10 NONE	HMCP 3P 30	1 SIZE 1, STARTER-100VA TYPICAL W/EXTRA 50VA 2 SIZE 1-4 STARTER-NORMALLY OPEN 2 SIZE 1-4 STARTER-NORMALLY CLOSED 1 STANDARD TRIP 1 RED RUN 1 GREEN STOP 1 2 UNIT PB 10250T (START/STOP) 1 3 POS. SEL. SW. (HAND-OFF-AUTO)
4D	AERATOR PANELBOARD FDR	HFD BKR (150A TRIP)		5599A85.DWF	HFD 3P 150	1 STANDARD TRIP
4F		12" DOOR				
4H		12" DOOR				
4K		12" DOOR				
4M		12" DOOR				



NO.	DATE	REMARKS	BY
REVISIONS			

GOODWATER, ALABAMA
WATER WORKS AND SEWER BOARD
LAGOON IMPROVEMENTS
DWSRF PROJECT NO. CS010623-02
CONTRACT NO. 2

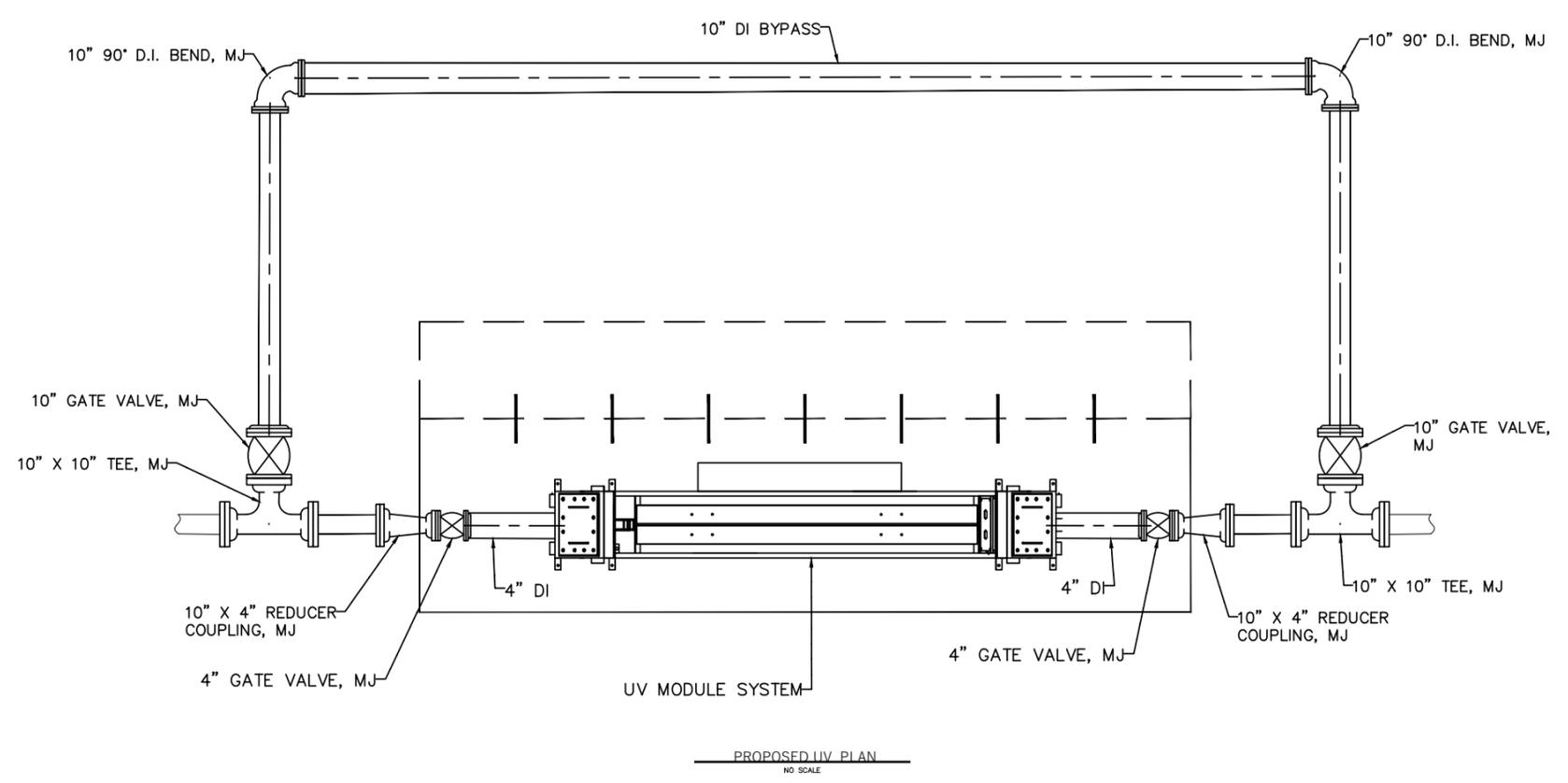
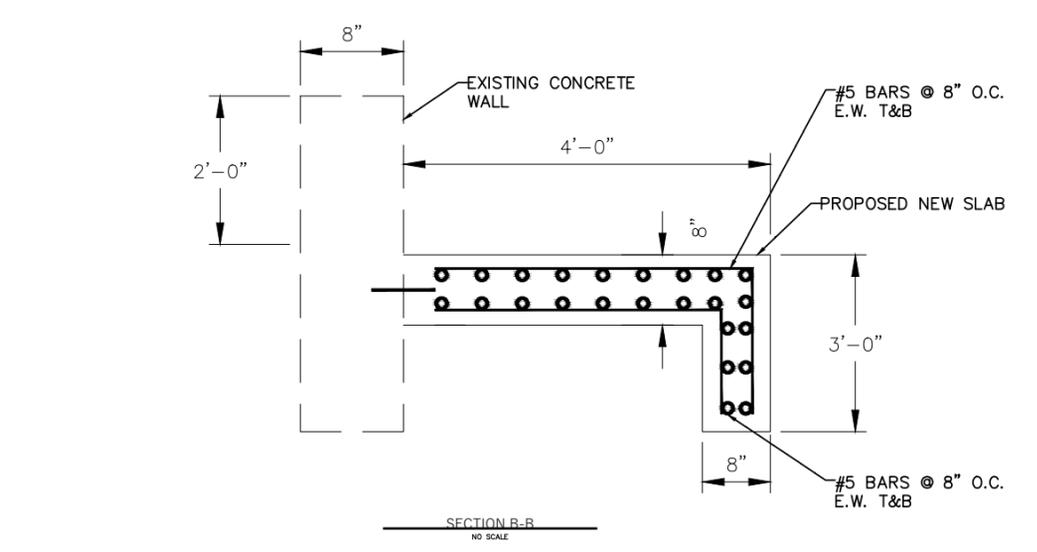
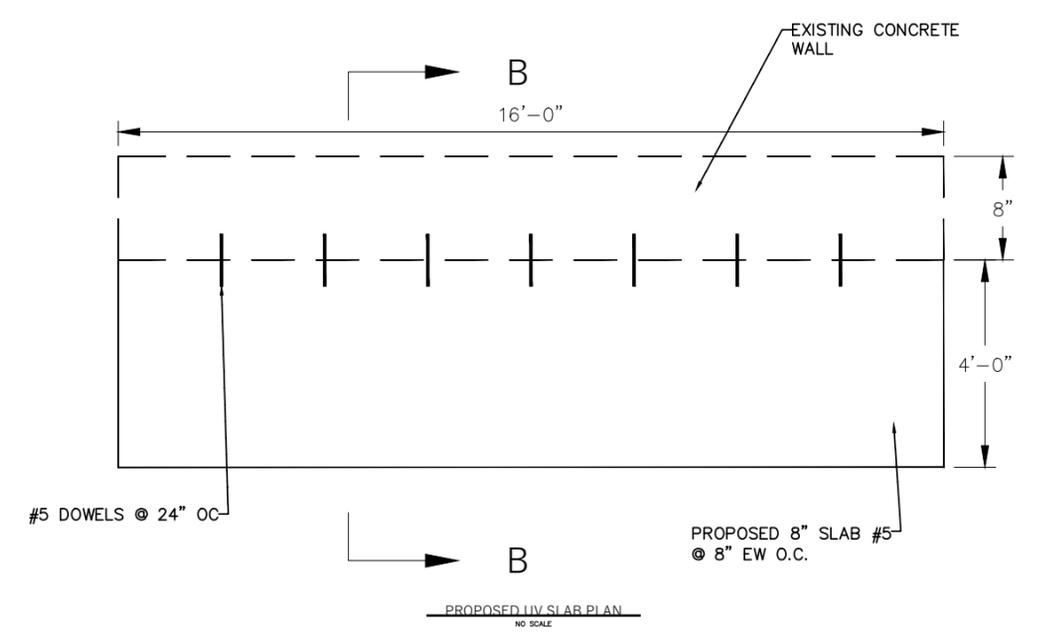
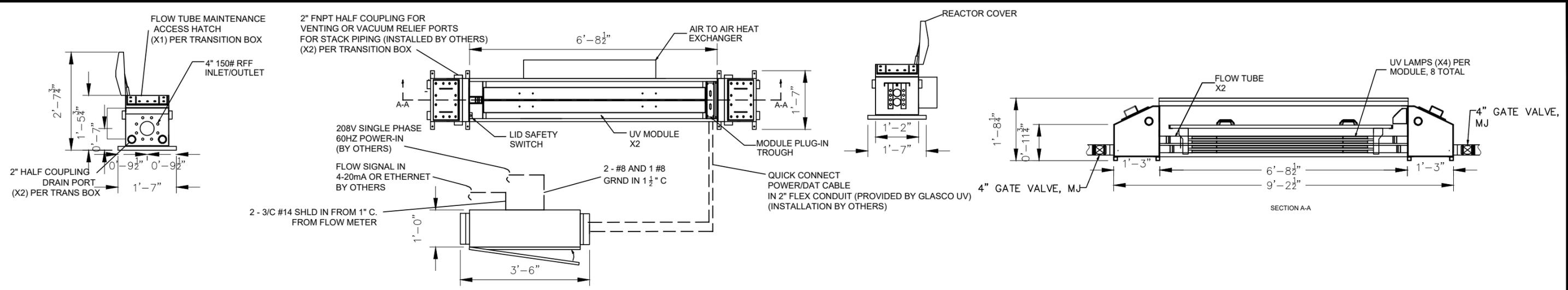
MCC PANEL

DESIGNED: DBB
DRAWN: RCM
SCALE: AS NOTED
DATE: APRIL, 2025

APPROVED: *Doc B. Butts*
REFERENCE: _____
JOB NO.: GW23 094

SHEET 6 OF 8

Utility Engineering Consultants, LLC
130 Southwest Drive, Suite 100
Homewood, Alabama 35209



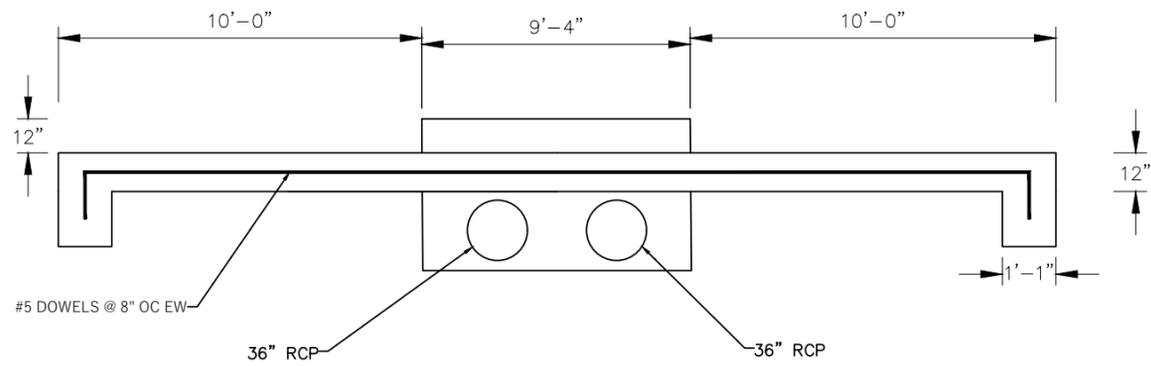
GOODWATER, ALABAMA
 WATER WORKS AND SEWER BOARD
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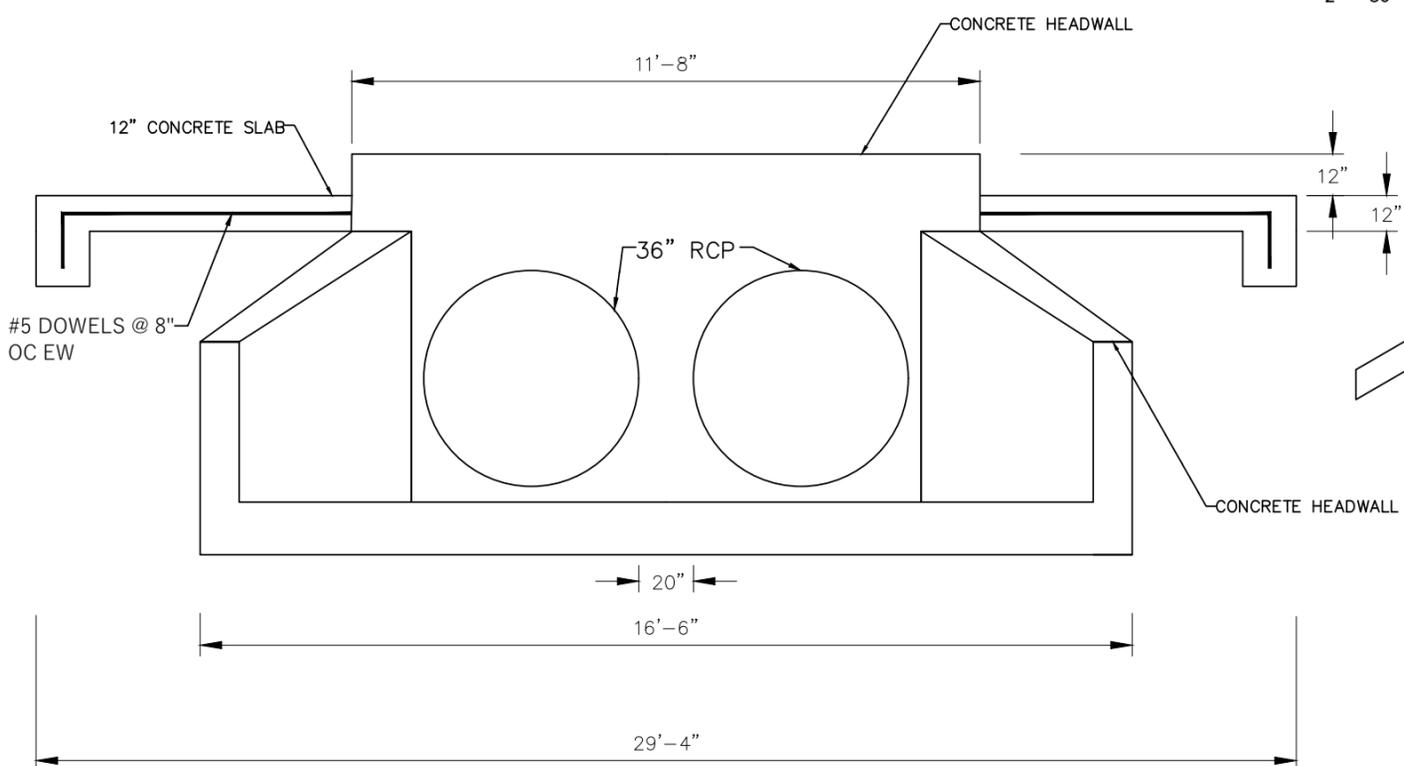
DESIGNED DBB	DRAWN RCM	SCALE AS NOTED	DATE APRIL, 2025
APPROVED <i>Dave S. Sechrest</i>	REFERENCE	JOB NO. GW23 094	

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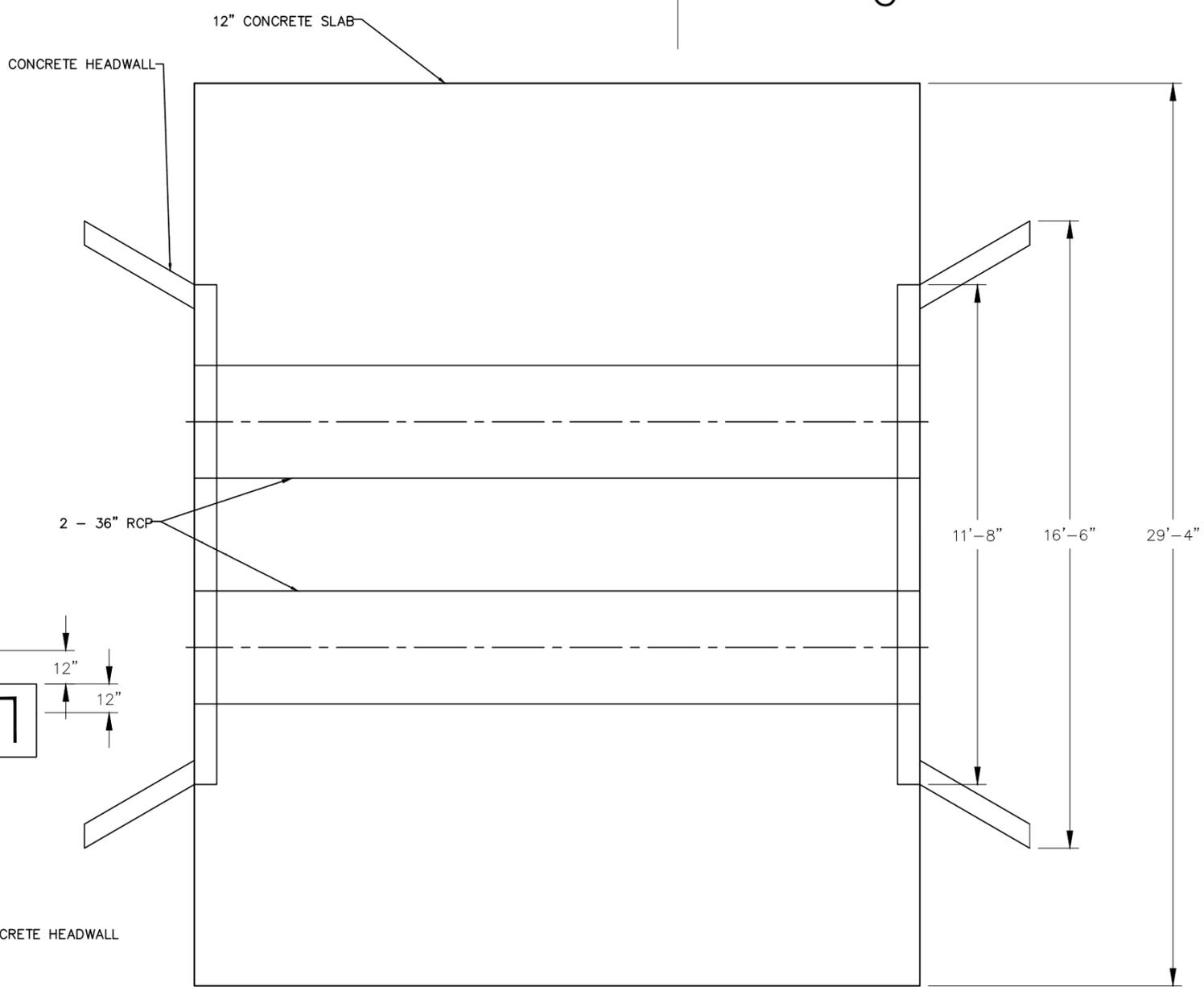
UV DETAIL



SECTION C-C
NO SCALE



FRONT VIEW
NO SCALE



PLAN
NO SCALE



GOODWATER, ALABAMA
WATER WORKS AND SEWER BOARD
LAGOON IMPROVEMENTS
DWSRF PROJECT NO. CS010623-02
CONTRACT NO. 2
PIPE BRIDGE

DESIGNED DBB	DRAWN RCM	SCALE AS NOTED	DATE APRIL, 2025
APPROVED <i>Doc B. Burt</i>	REFERENCE	JOB NO. GW23 094	
SHEET 8		OF 8	

NO.	DATE	REMARKS	BY
REVISIONS			