



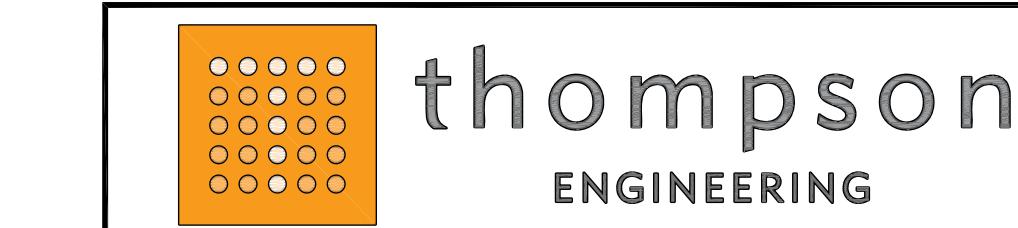
**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

**McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE**

KAY IVEY, GOVERNOR OF ALABAMA  
DOUG OTTO, DIRECTOR



FEBRUARY 2026



**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

PROJECT COVER SHEET

FOR: ALABAMA PORT AUTHORITY



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DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 01-03-25 SCALE: NONE

PROJECT NO: 4617 DWG NO: G1

REV: E

DRAWING INDEX		GENERAL NOTES		CODE/DESIGN CRITERIA		STRUCTURAL STEEL GENERAL NOTES	
<b>Drawing No.</b>	<b>Drawing Title</b>						
4617-G1	PROJECT COVER SHEET	1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE ACTUAL EXISTING CONDITIONS AND HOW THEY AFFECT THE REQUIRED WORK PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY NOTED BETWEEN ACTUAL CONDITIONS AND THOSE DESCRIBED BY THESE DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO ADDITIONAL COST ASSOCIATED WITH THE MODIFICATIONS TO THE SCOPE OF WORK REQUIRED DUE TO INACCURATE EXISTING CONDITIONS AS SHOWN BY THESE DRAWINGS WILL BE CONSIDERED UNLESS SAID CONDITIONS HAVE BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO RECEIVING BIDS.	1. SEE ALSO SPECIFICATIONS PROVIDED BY ARCHITECT. WHERE SPECIFICATIONS CONFLICT OR ARE DUPLICATED THE MORE RESTRICTIVE OF THE ARCHITECTURAL OR ENGINEERING SPECS WILL GOVERN.	1. STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING PROJECT SPECIFICATION: 05100 – "STRUCTURAL STEEL MATERIALS FABRICATION AND ERECTION"			
4617-G2	PROJECT GENERAL NOTES & DRAWING INDEX	2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ALABAMA PORT AUTHORITY.	2. BUILDING DIMENSIONS SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED AS FOLLOWS AND IN ACCORDANCE WITH THE 2021 BUILDING CODE:	2. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (1989) AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (1992).			
4617-G3	EXISTING SITE PLAN & VICINITY MAP	3. ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL BUILDING CODES AND ORDINANCES.	3. DEFLECTIONS SHALL BE LIMITED AS FOLLOWS:	3. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR A490 BOLTS" (1994).			
4617-G3A	EXISTING SITE PLAN – AERIAL OVERLAY	4. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEW OF THESE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.	4. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ALABAMA PORT AUTHORITY.	4. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD D1.1, LATEST EDITION.			
4617-G4	NEW SITE PLAN	5. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AN EROSION CONTROL PLAN INDICATING THE NECESSARY SILT FENCES AND HAY BALES AS REQUIRED TO PREVENT STORM WATER RUN-OFF INTO THE ADJACENT WATERWAYS DURING CONSTRUCTION.	5. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AN EROSION CONTROL PLAN INDICATING THE NECESSARY SILT FENCES AND HAY BALES AS REQUIRED TO PREVENT STORM WATER RUN-OFF INTO THE ADJACENT WATERWAYS DURING CONSTRUCTION.				
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NOTES							

### CODE/DESIGN CRITERIA

- SEE ALSO SPECIFICATIONS PROVIDED BY ARCHITECT. WHERE SPECIFICATIONS CONFLICT OR ARE DUPLICATED THE MORE RESTRICTIVE OF THE ARCHITECTURAL OR ENGINEERING SPECS WILL GOVERN.
- BUILDING DIMENSIONS SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED AS FOLLOWS AND IN ACCORDANCE WITH THE 2021 BUILDING CODE:
  - DEAD LOAD OF STRUCTURE
  - WIND LOAD – 159 MPH (3 SECOND GUST) (RISK CATEGORY II) (EXPOSURE D)
  - ROOF LIVE LOAD – 20 PSF (REDUCIBLE)
  - COLLATERAL LOAD – 10 PSF
  - FLOOR LOAD – 100 PSF
  - CRANE – (2) 7 TON (CLASS C) (AS SHOWN ON DRAWING S4).
- DEFLECTIONS SHALL BE LIMITED AS FOLLOWS:
 

PRIMARY FRAMING – L/240 FOR LIVE LOAD
WIND BEAM – H/240 FOR WIND LOAD
SECONDARY FRAMING – L/240 FOR ROOF DEAD LOAD + ROOF LIVE LOAD.

### CONCRETE GENERAL NOTES

#### REFERENCE SPECIFICATIONS

- REINFORCED CONCRETE WORK SHALL CONFORM TO SPECIFICATIONS "03100 – FORMWORK" AND "03300 – CAST-IN-PLACE CONCRETE".
- REINFORCING STEEL MATERIALS, DETAILING, FABRICATION, AND PLACEMENT SHALL CONFORM TO SPECIFICATION "03200 – REINFORCING STEEL".
- ANCHOR BOLT AND EMBEDDED ITEM MATERIALS, FABRICATION, AND PLACEMENT SHALL CONFORM TO SPECIFICATION "03150 – ANCHOR BOLTS AND EMBEDDED ITEMS".

#### MATERIALS

- ALL CAST-IN-PLACE CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING BARS SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A615, GRADE 60.
- ANCHOR BOLT MATERIAL SHALL BE AS SHOWN ON THE DRAWINGS. ALL A-36 AND A-307 ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND ASTM A-143, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- EMBEDDED STEEL MATERIAL SHALL CONFORM TO ASTM A36. ALL EMBEDDED STEEL ITEMS WILL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND ASTM A-143 UNLESS NOTED OTHERWISE.
- GROUT MATERIAL UNDERNEATH ALL STRUCTURAL COLUMNS, EQUIPMENT BASES, ETC SHALL BE PREPACKAGED, CEMENTITIOUS, NON-SHRINK, NON-METALLIC GROUT.
- EPOXY MATERIAL FOR DRILLED AND GROUTED REBAR AND ANCHORS SHALL BE AS CALLED FOR ON THE DRAWINGS (HILTI) OR ENGINEERING APPROVED EQUAL.

#### CONSTRUCTION METHODS

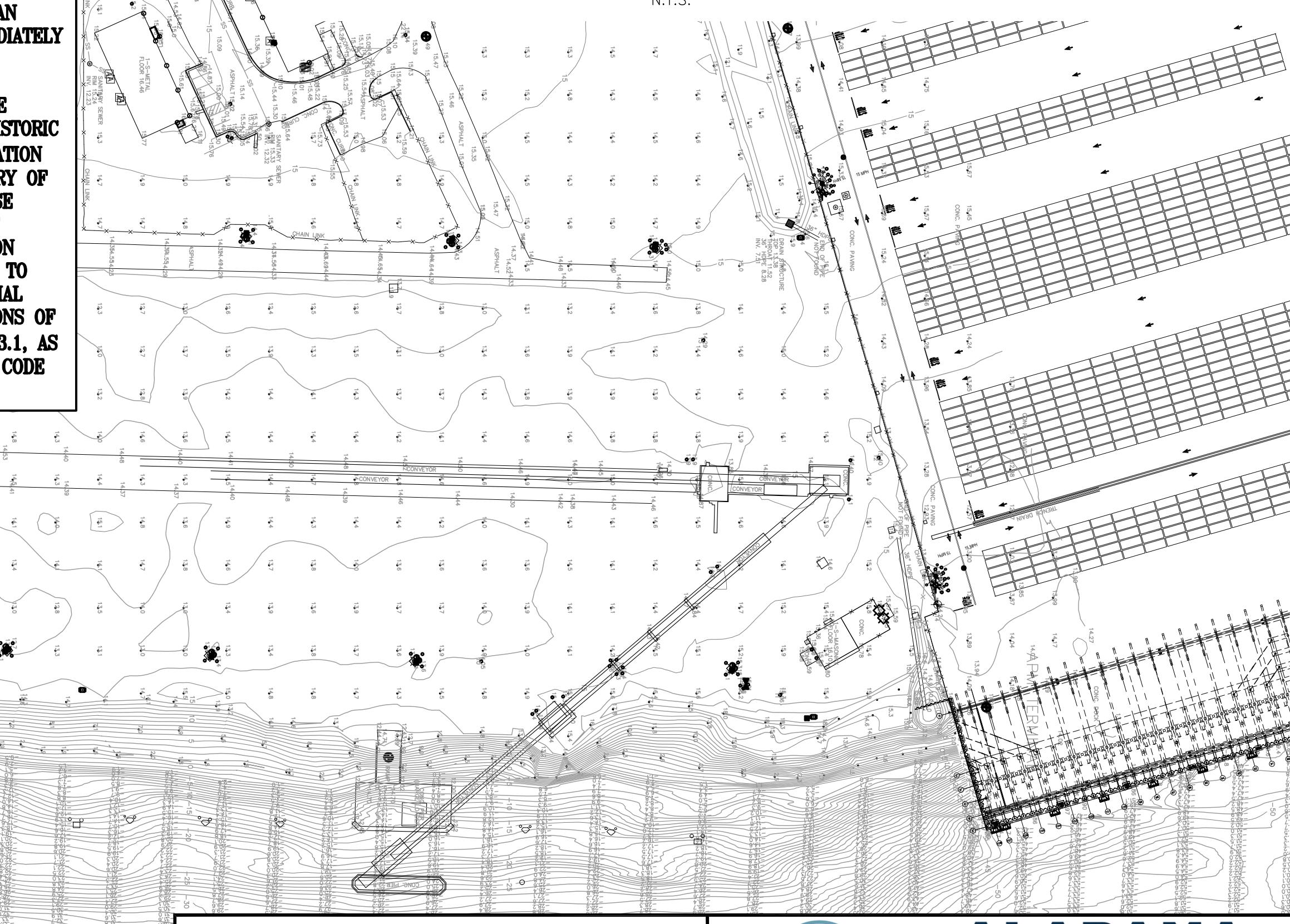
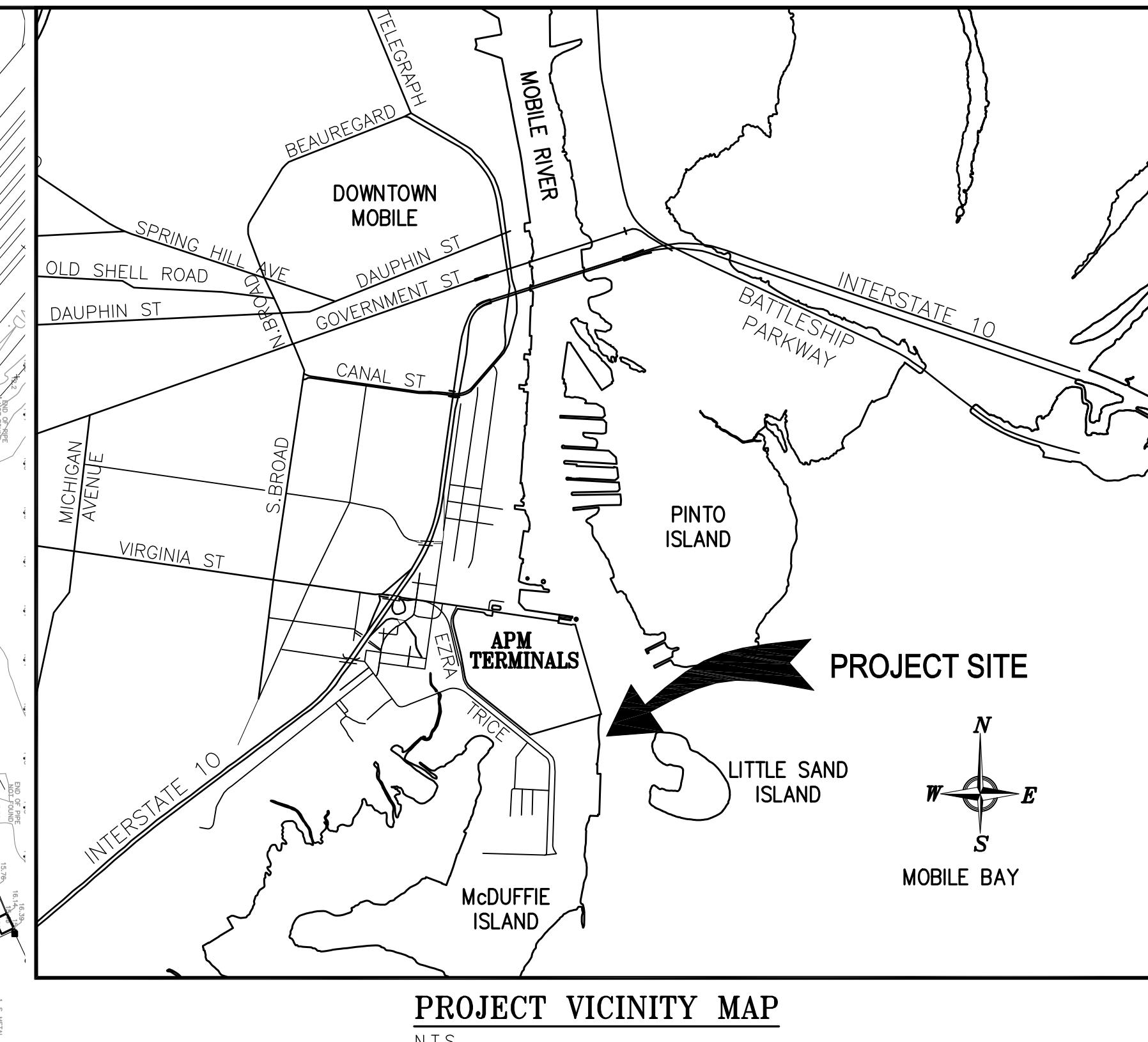
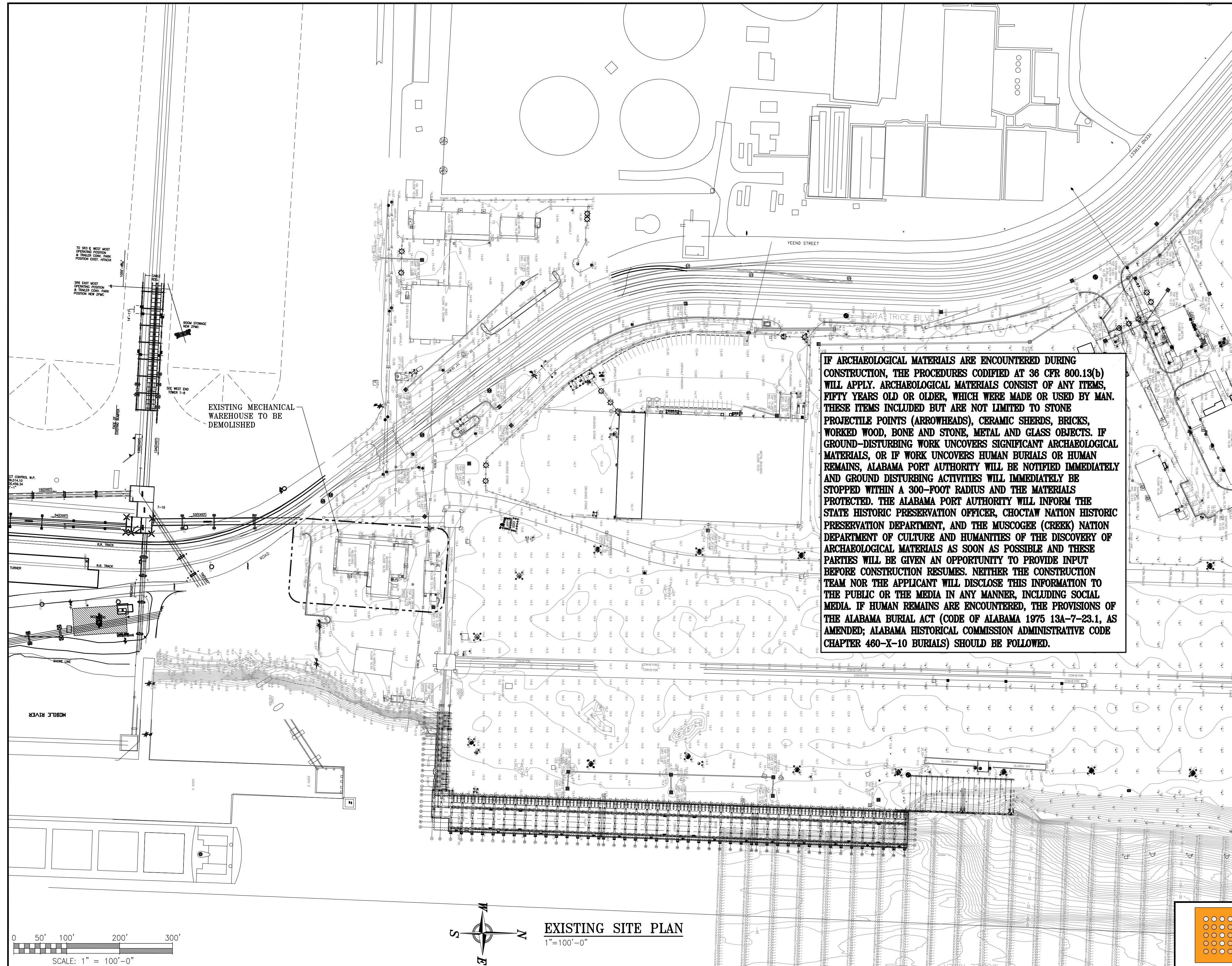
- COORDINATE CONCRETE WORK WITH PIPING, ELECTRICAL AND MECHANICAL WORK PRIOR TO PLACING CONCRETE.
- UNLESS NOTED OTHERWISE, DETAIL, FABRICATE AND PLACE REINFORCING IN CONFORMANCE WITH ACI 318.
- EXPOSED EDGES OF CONCRETE SHALL HAVE A  $\frac{3}{4}$ " CHAMFER UNLESS NOTED OTHERWISE.
- CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH – 3 INCHES
  - ALL OTHER REINFORCING – 2 INCHES
- SPICES IN REINFORCING BARS SHALL BE CLASS "B" SPICES AS DEFINED BY ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWING.
- CONSTRUCTION JOINTS SHALL BE MADE AT THE LOCATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
- CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY  $\frac{1}{4}$  INCH.
- CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.
- CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.
- A 6-MIL POLY VAPOR BARRIER SHALL BE PROVIDED UNDERNEATH ALL FLOOR SLABS. CARE SHALL BE TAKEN IN THE USE OF REINFORCING STEEL CHAIRS SO AS NOT TO DAMAGE THE VAPOR BARRIER.

#### MATERIALS

- STRUCTURAL STEEL "W", "WT" AND "S" SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 CLASS B, Fy 46 ksi. ALL CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- HIGH STRENGTH BOLTS, NUTS AND HARDENED WASHERS SHALL CONFORM TO ASTM A325, ASTM A563 DH, AND ASTM F436 RESPECTIVELY. MACHINE BOLTS AND NUTS SHALL CONFORM TO ASTM A307, AND PLAIN WASHERS SHALL CONFORM TO ANSI B18.22.1. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.
- WELDING ELECTRODES USED FOR FIELD CONNECTIONS SHALL CONFORM TO AWS A5.1, CLASS E70XX UNLESS NOTED OTHERWISE ON THE DRAWINGS. WELDING ELECTRODES USED FOR SHOP CONNECTIONS SHALL CONFORM TO AWS A5.1 WITH A MINIMUM ELECTRODE TENSILE STRENGTH OF 70 KSI, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- GRATING SHALL BE WELDED STEEL BAR TYPE WITH SERRATED  $\frac{1}{4}$  INCH BY  $\frac{3}{8}$  INCH BEARING BARS SPACED AT  $\frac{1}{2}$  INCH CENTER TO CENTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CROSS BARS SHALL BE SPACED AT 4 INCHES CENTER TO CENTER. ALL BEARING BARS AND CROSS BARS SHALL BE WELDING QUALITY MILD CARBON STEEL AND SHALL CONFORM TO ASTM A1011.
- GRATING AND CHECKERED PLATE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH APPLICABLE PROVISIONS OF ASTM A123, A143, A384 AND A385. ALL DAMAGED HOT-DIP GALVANIZED AREAS SHALL BE COATED WITH ZRC COLD GALVANIZING COMPOUND OR EQUAL. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SHOP WELDED CONNECTIONS SHALL BE CONTINUOUSLY SEAL WELDED WITH A MINIMUM  $\frac{1}{8}$  INCH FILLET WELD IN ACCORDANCE WITH ASTM A385.
- ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL, HANDRAIL AND LADDERS SHALL BE SHOP PAINTED IN ACCORDANCE WITH THE PROJECT PAINT SPECIFICATION 09910, DESIGNATION S-2S.

#### FABRICATION AND ERECTION

- NO TEMPORARY ERECTION BOLTS OTHER THAN HIGH STRENGTH BOLTS SHALL BE USED DURING ERECTION OF THE MEMBERS REQUIRING HIGH STRENGTH BOLTS.
- WHEN CONNECTIONS REQUIRE FIELD PREPARATION OF BOLT HOLES, THE HOLES SHALL BE DRILLED OR PUNCHED, AND THE DIAMETER OF THE BOLT HOLES SHALL BE  $\frac{1}{16}$  INCH GREATER THAN THE NOMINAL BOLT DIAMETER.
- FIELD CORRECTING OF FABRICATED STEEL BY GAS CUTTING SHALL NOT BE PERMITTED ON MAJOR STRUCTURAL FRAMING MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- ALL ANGLE AND STRUCTURAL TEE BRACING SHALL HAVE  $\frac{1}{16}$



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PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

EXISTING SITE PLAN & VICINITY MAP

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G3 REV: E

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IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROCEDURES CODIFIED AT 36 CFR 800.13(b) WILL APPLY. ARCHAEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OLD OR OLDER, WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDED BUT ARE NOT LIMITED TO STONE PROJECTILE POINTS (ARROWHEADS), CERAMIC SHERDS, BRICKS, WORKED WOOD, BONE AND STONE, METAL AND GLASS OBJECTS. IF GROUND-DISTURBING WORK UNCOVERS SIGNIFICANT ARCHAEOLOGICAL MATERIALS, OR IF WORK UNCOVERS HUMAN BURIALS OR HUMAN REMAINS, ALABAMA PORT AUTHORITY WILL BE NOTIFIED IMMEDIATELY AND GROUND DISTURBING ACTIVITIES WILL IMMEDIATELY BE STOPPED WITHIN A 300-FOOT RADIUS AND THE MATERIALS PROTECTED. THE ALABAMA PORT AUTHORITY WILL INFORM THE STATE HISTORIC PRESERVATION OFFICER, CHOCTAW NATION HISTORIC PRESERVATION DEPARTMENT, AND THE MUSCOGEE (CREEK) NATION DEPARTMENT OF CULTURE AND HUMANITIES OF THE DISCOVERY OF ARCHAEOLOGICAL MATERIALS AS SOON AS POSSIBLE AND THESE PARTIES WILL BE GIVEN AN OPPORTUNITY TO PROVIDE INPUT BEFORE CONSTRUCTION RESUMES. NEITHER THE CONSTRUCTION TEAM NOR THE APPLICANT WILL DISCLOSE THIS INFORMATION TO THE PUBLIC OR THE MEDIA IN ANY MANNER, INCLUDING SOCIAL MEDIA. IF HUMAN REMAINS ARE ENCOUNTERED, THE PROVISIONS OF THE ALABAMA BURIAL ACT (CODE OF ALABAMA 1975 13A-7-23.1, AS AMENDED; ALABAMA HISTORICAL COMMISSION ADMINISTRATIVE CODE CHAPTER 460-X-10 BURIALS) SHOULD BE FOLLOWED.

A compass rose with four main points: North (N), South (S), East (E), and West (W). The North point is at the top, South at the bottom, East on the right, and West on the left. In the center of the compass rose is a letter 'M'.

# EXISTING SITE PLAN - AERIAL OVERLAY

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# ALABAMA PORT AUTHORITY

## PORT OF MOBILE

## McDUFFIE TERMINAL IMPROVEMENTS

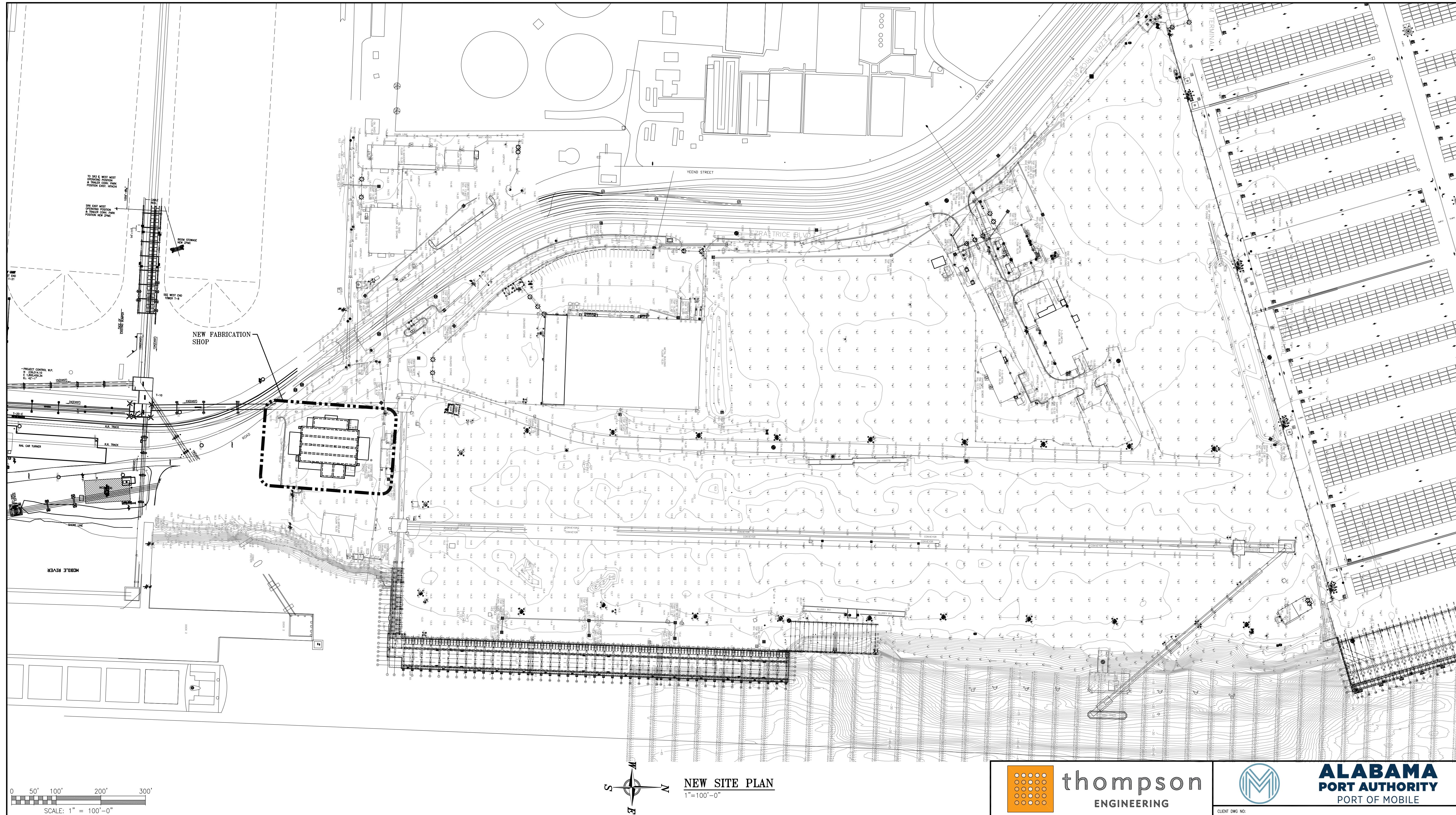
## NEW FABRICATION SHOP PACKAGE

EXISTING SITE PLAN AERIAL OVERLAY

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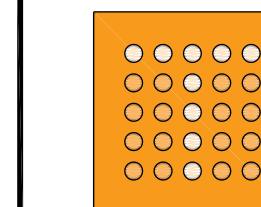
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## NEW SITE PLAN

NEW SITE FURN



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## PORT OF MOBILE

CLIENT DWG NO.:

## McDUFFIE TERMINAL IMPROVEMENTS

## NEW FABRICATION

## NEW SITE PLAN

## NOTE

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# APTIM

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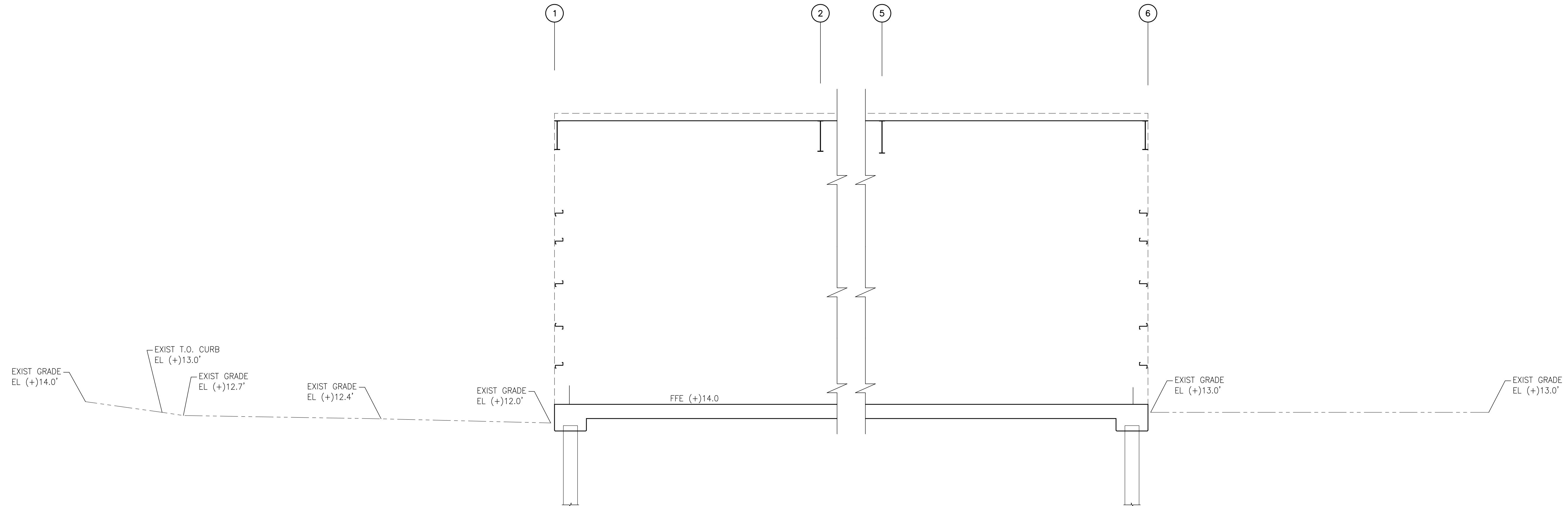
## NEW FABRICATION SHOP PACKAGE

## NEW SITE PLAN

FOR: ALABAMA PORT AUTHORITY

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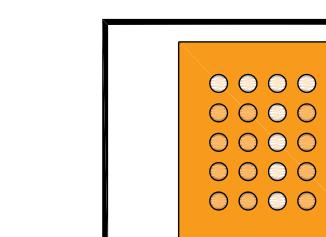




SECTION  
3/16"=1'-0"

5' 0 5' 10'  
SCALE: 3/16" = 1'-0"

NOTES						
	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D APP'D DATE DRAWN: JLH CK'D: JEJ APP'D: RSG DATE: 01-03-25 SCALE: AS NOTED



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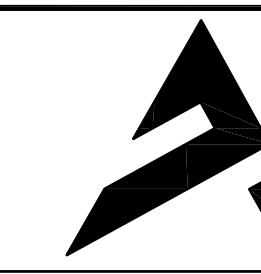
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NEW FABRICATION SHOP PACKAGE

CIVIL SECTIONS – SHEET 1 OF 4



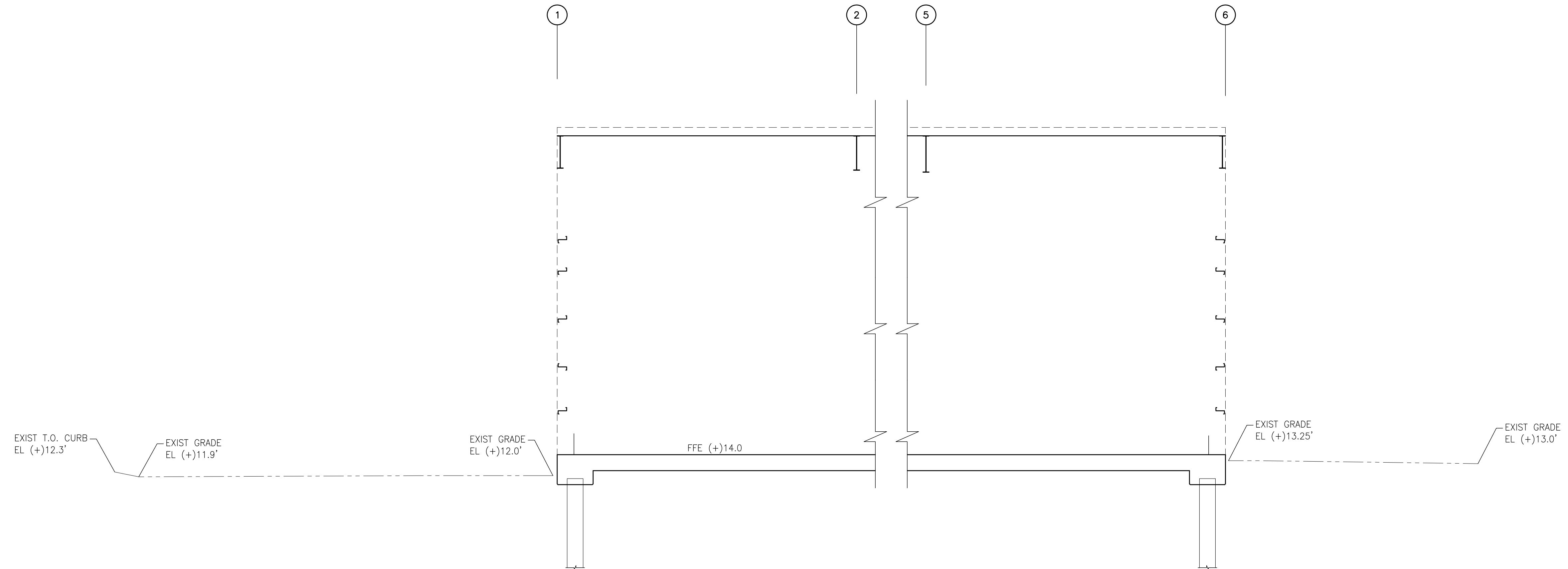
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FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G6

REV: D



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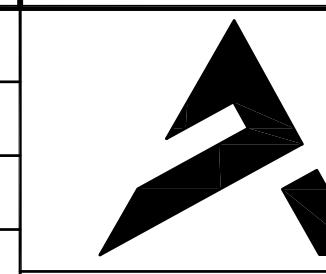
SECTION B  
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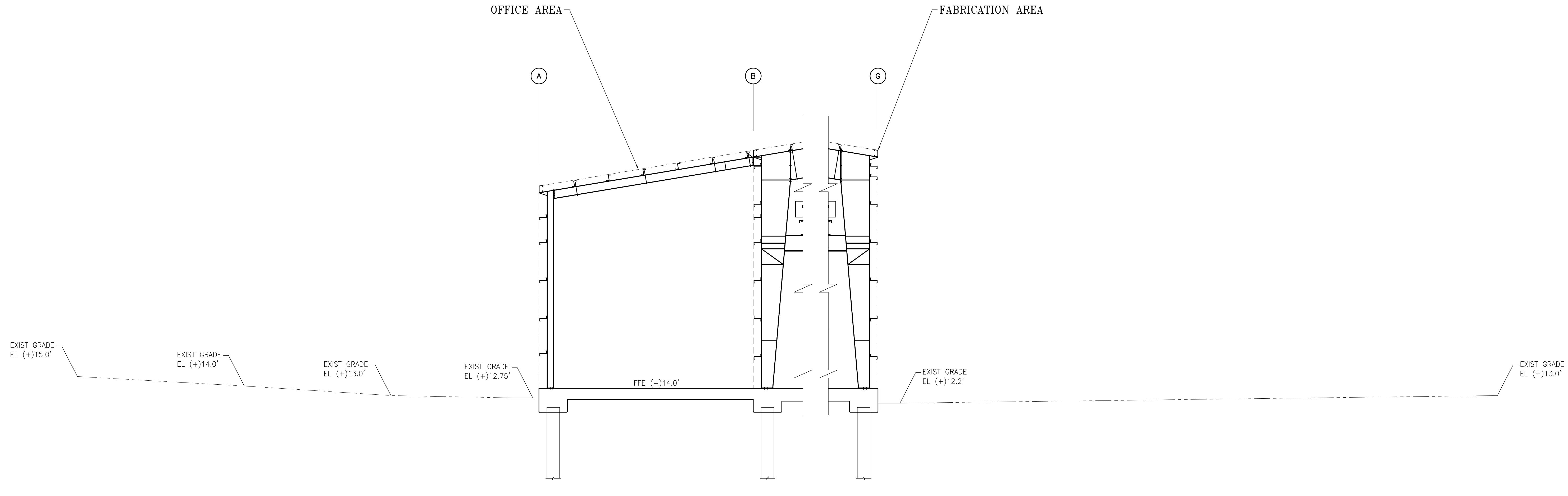
NEW FABRICATION SHOP PACKAGE

CIVIL SECTIONS – SHEET 2 OF 4

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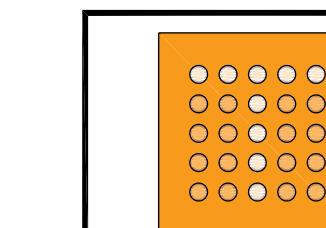
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5' 0" 5' 10"  
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NOTES						
	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D APP'D DATE DRAWN: JLH CK'D: JEJ APP'D: RSG DATE: 01-03-25 SCALE: AS NOTED



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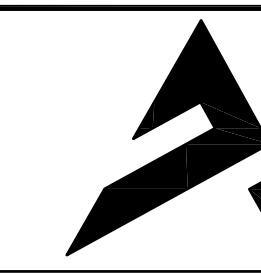
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

CIVIL SECTIONS – SHEET 3 OF 4



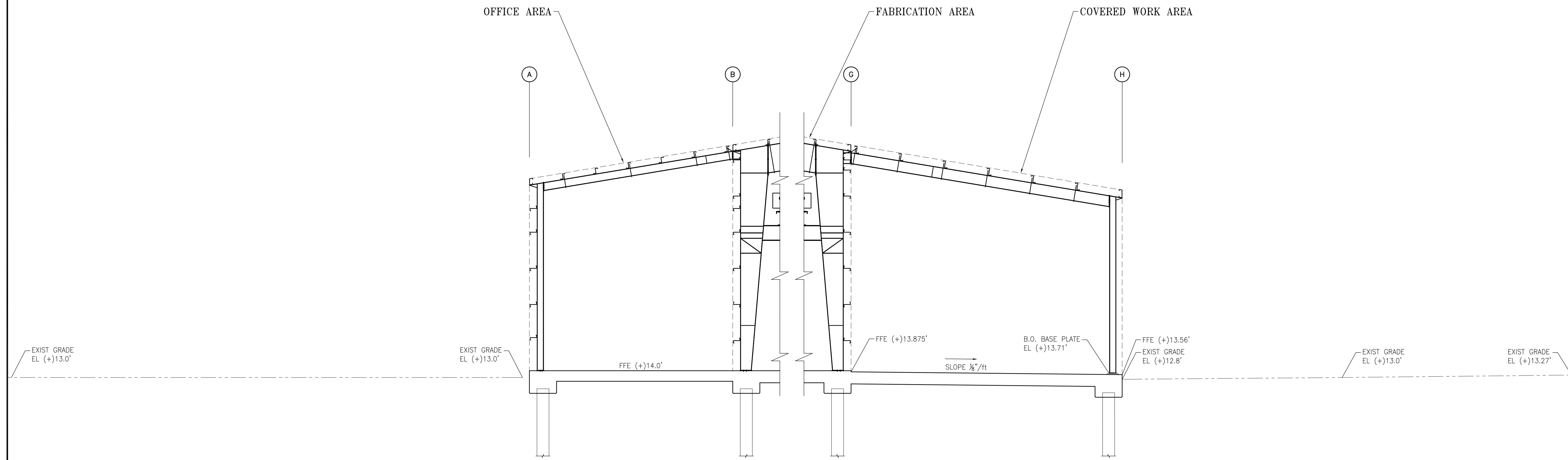
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PORT SERVICES, LLC

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FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G8

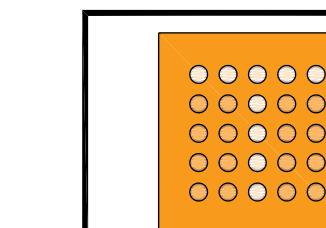
REV: D



SECTION  
3/16" = 1'-0"

5' 0" 5' 10"  
SCALE: 3/16" = 1'-0"

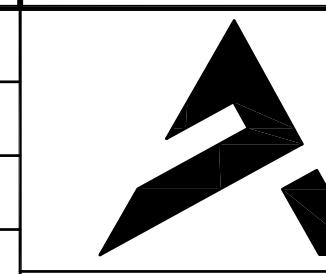
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	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D APP'D DATE DRAWN: JLH CK'D: JEJ APP'D: RSG DATE: 01-03-25 SCALE: AS NOTED



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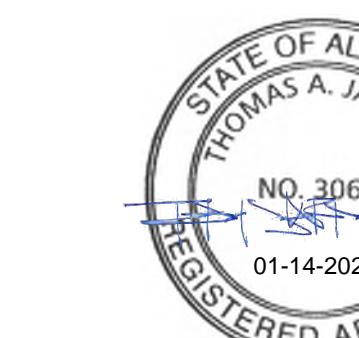
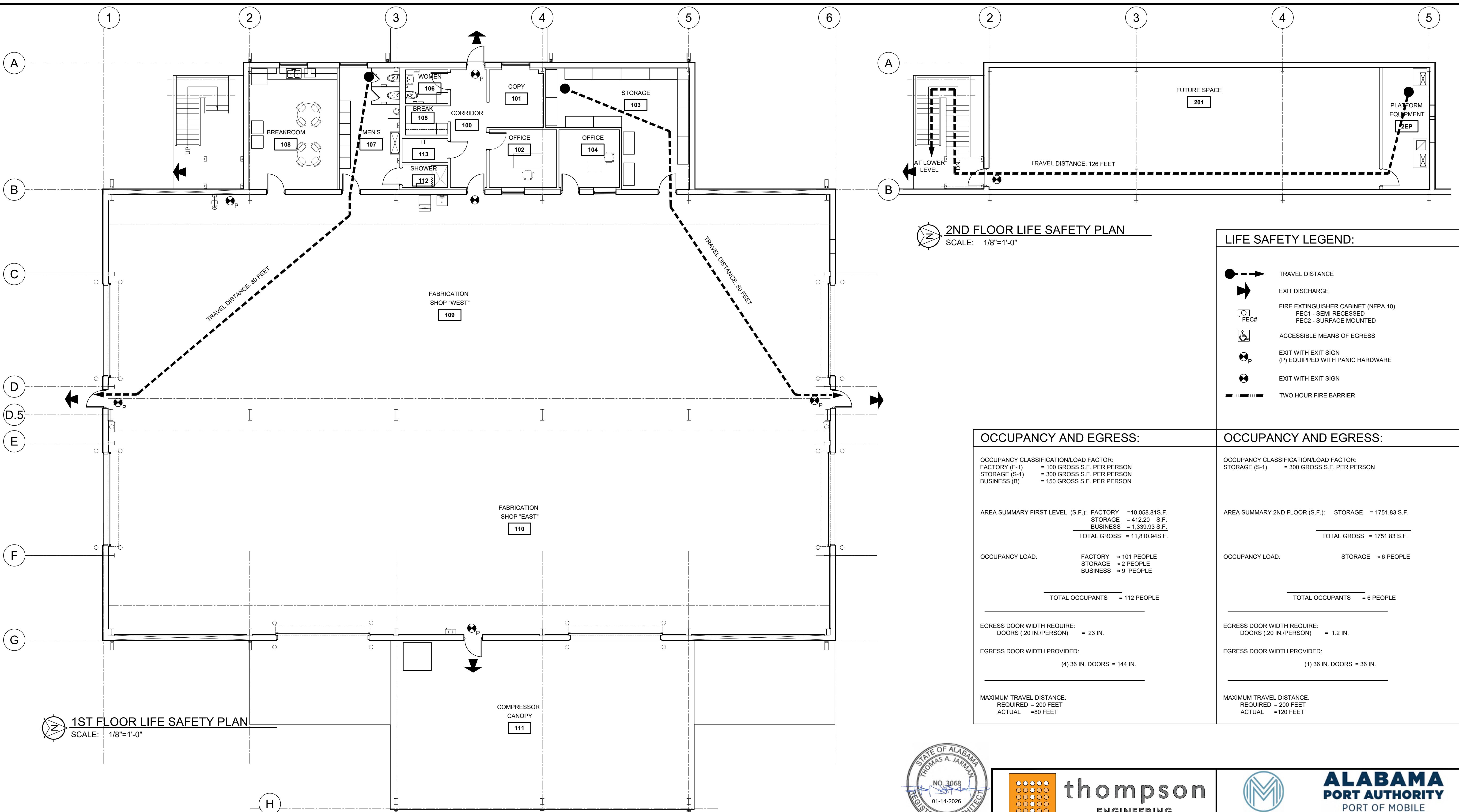
McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

CIVIL SECTIONS – SHEET 4 OF 4

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G9 REV: D



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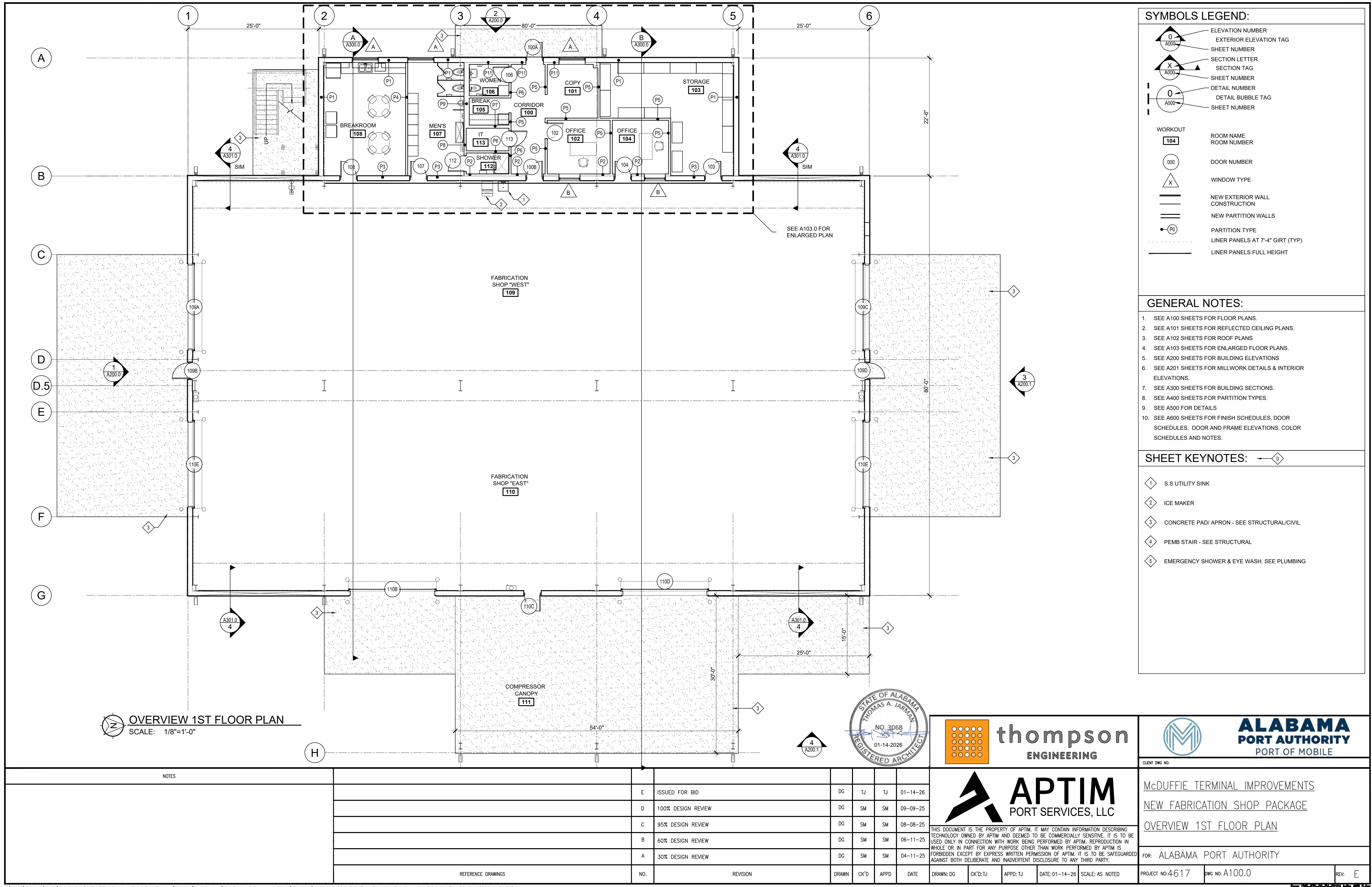


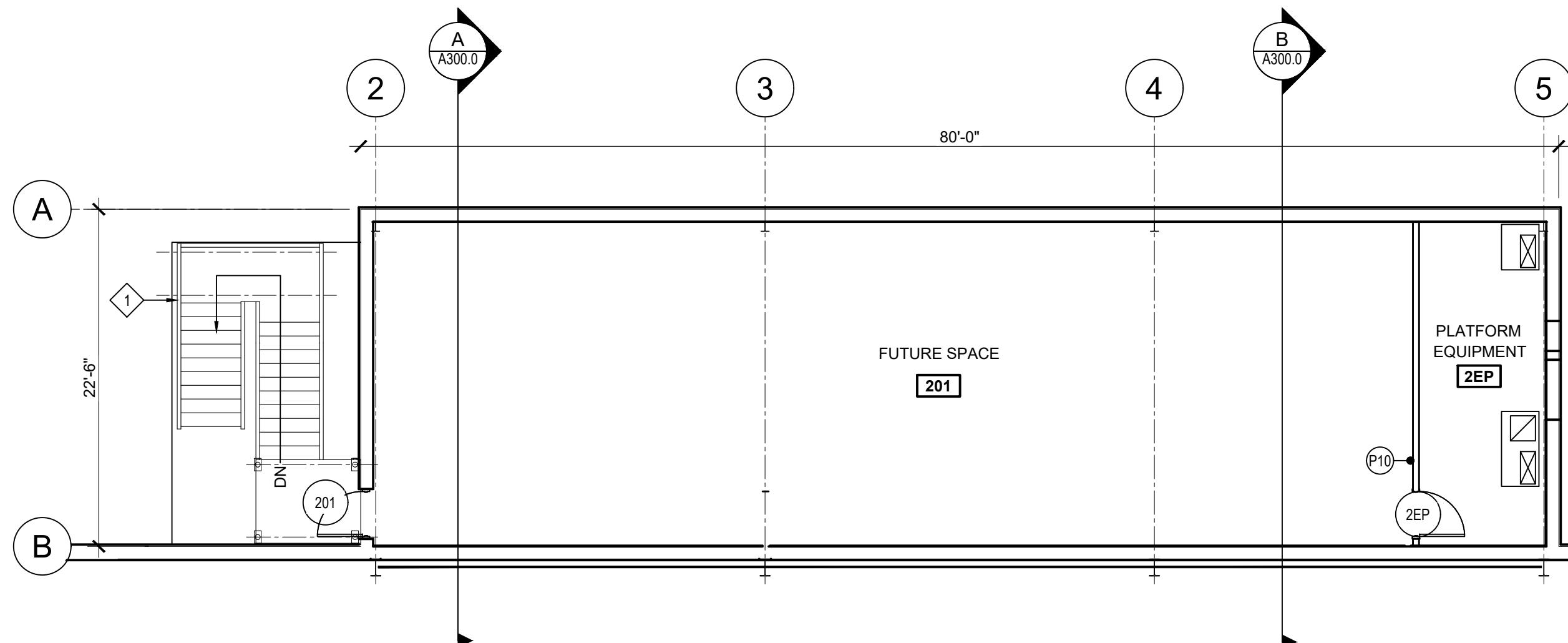
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
1ST AND 2ND FLOOR LIFE SAFETY PLAN  
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G102.0 REV: E

NOTES	E	ISSUED FOR BID	DG	TJ	TJ	01-14-26
	D	100% DESIGN REVIEW	DG	SM	SM	09-09-25
	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
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			SCALE: AS NOTED			





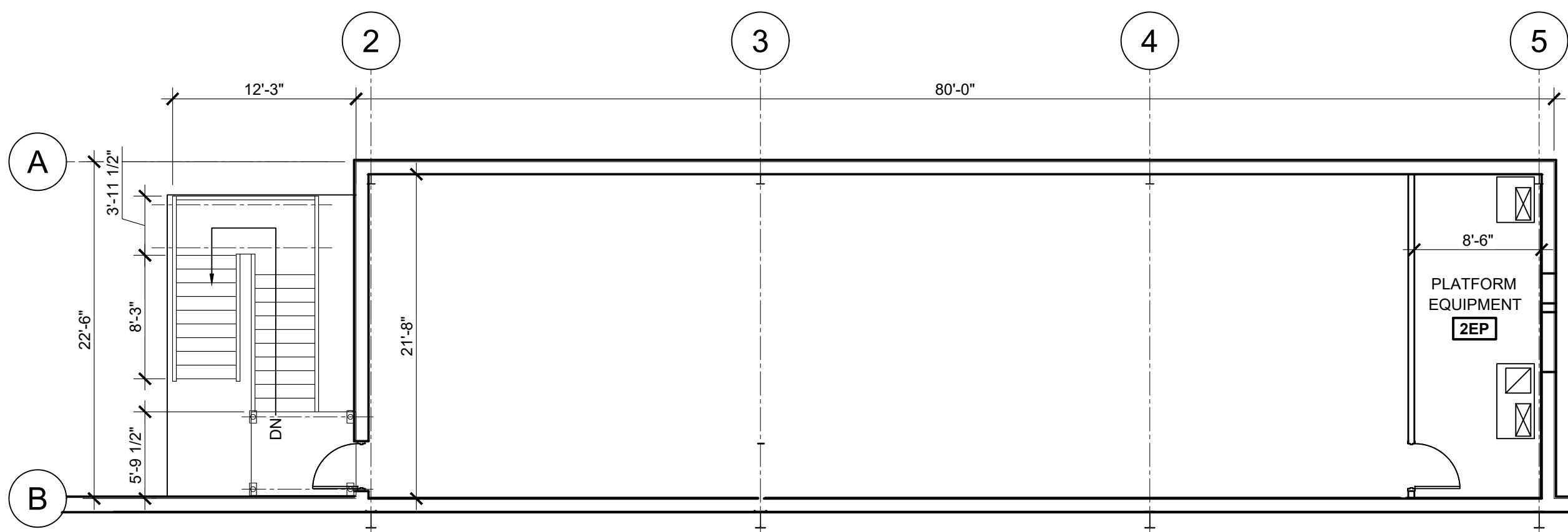


# OVERVIEW 2ND FLOOR PLAN

---

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

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





# DIMENSIONAL 2ND FLOOR PLAN

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

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

## SYMBOLS LEGEND:

Diagram illustrating various architectural symbols and their meanings:

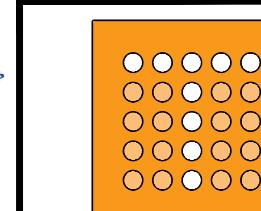
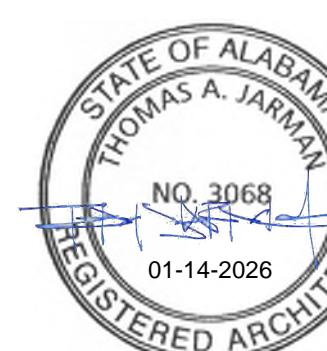
- Exterior Elevation Tag:** A circle containing '0' and 'A000' with a triangle pointing to 'ELEVATION NUMBER' and 'SHEET NUMBER'.
- Section Tag:** A triangle containing 'X' and 'A000' with a triangle pointing to 'SECTION LETTER' and 'SHEET NUMBER'.
- Detail Bubble Tag:** A circle containing '0' and 'A000' with a triangle pointing to 'DETAIL NUMBER' and 'SHEET NUMBER'.
- Room Tag:** A rectangle containing '104' with a triangle pointing to 'ROOM NAME' and 'ROOM NUMBER'.
- Door Number:** A circle containing '000'.
- Window Type:** A triangle containing 'X'.
- Construction:** Three horizontal lines of varying lengths.
- Partition Walls:** Three horizontal lines of varying lengths.
- Partition Type:** A circle containing 'P0' with a triangle pointing to 'PARTITION TYPE'.
- Liner Panels:** Three horizontal lines of varying lengths.

## GENERAL NOTES:

- SEE A100 SHEETS FOR FLOOR PLANS.
- SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
- SEE A102 SHEETS FOR ROOF PLANS
- SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
- SEE A200 SHEETS FOR BUILDING ELEVATIONS
- SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
- SEE A300 SHEETS FOR BUILDING SECTIONS.
- SEE A400 SHEETS FOR PARTITION TYPES.
- SEE A500 FOR DETAILS
- SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

## SHEET KEYNOTES:

1 PEMB STAIR - SEE STRUCTURAL



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**ALABAMA  
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PORT OF MOBILE

CLIENT DWG NO:

## McDUFFIE TERMINAL IMPROVEMENTS

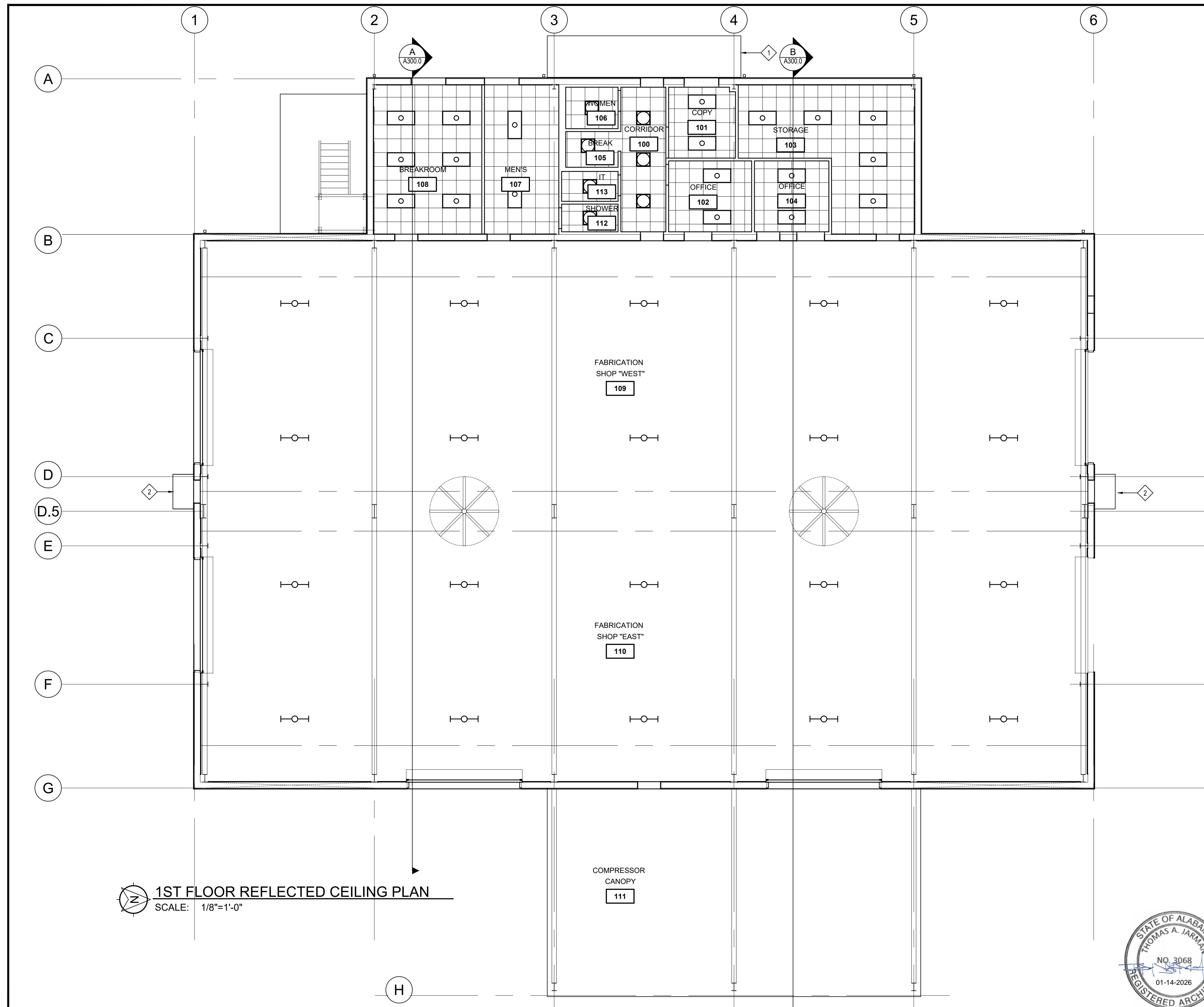
## NEW FABRICATION SHOP PACKAGE

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: A100.1

350-00-FM-02104 Aptim ANSI D.





SYMBOLS LEGEND:	
	ELEVATION NUMBER
	EXTERIOR ELEVATION TAG
	SHEET NUMBER
	SECTION LETTER
	SECTION TAG
	SHEET NUMBER
	DETAIL NUMBER
	DETAIL BUBBLE TAG
	SHEET NUMBER
	WORKOUT
	ROOM NAME
	ROOM NUMBER
	NEW HIGH BAY FIXTURE-SEE ELECTRICAL
	NEW EXTERIOR WALL CONSTRUCTION
	NEW 4' LINEAR PENDANT - SEE ELECTRICAL
	NEW PARTITION WALLS
	NEW 2x2 LAY-IN ACOUSTICAL CEILING TILE AND GRID
	NEW INDUSTRIAL FAN. SEE ELECTRICAL
	GYPSUM CEILING. SEE FINISH SCHEDULE
	NEW EXIT SIGN / EMERGENCY LIGHT. SEE ELECTRICAL
	NEW SUPPLY AIR GRILLE. SEE MECHANICAL
	NEW RETURN GRILLE. SEE MECHANICAL
	NEW 2x4 LIGHT FIXTURE. SEE ELECTRICAL
	NEW EXHAUST FAN. SEE MECHANICAL
	DOWNLIGHT SURFACE MOUNTED. SEE ELECTRICAL
	NEW EXHAUST FAN. SEE MECHANICAL
GENERAL NOTES:	
1. SEE A100 SHEETS FOR FLOOR PLANS.	
2. SEE A101 SHEETS FOR REFLECTED CEILING PLANS.	
3. SEE A102 SHEETS FOR ROOF PLANS	
4. SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.	
5. SEE A200 SHEETS FOR BUILDING ELEVATIONS	
6. SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.	
7. SEE A300 SHEETS FOR BUILDING SECTIONS.	
8. SEE A400 SHEETS FOR PARTITION TYPES.	
9. SEE A500 FOR DETAILS	
10. SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS, COLOR SCHEDULES AND NOTES.	
SHEET KEYNOTES:	
	① PRE-ENGINEERED METAL BUILDING CANOPY
	② PRE-FINISHED METAL CANOPY



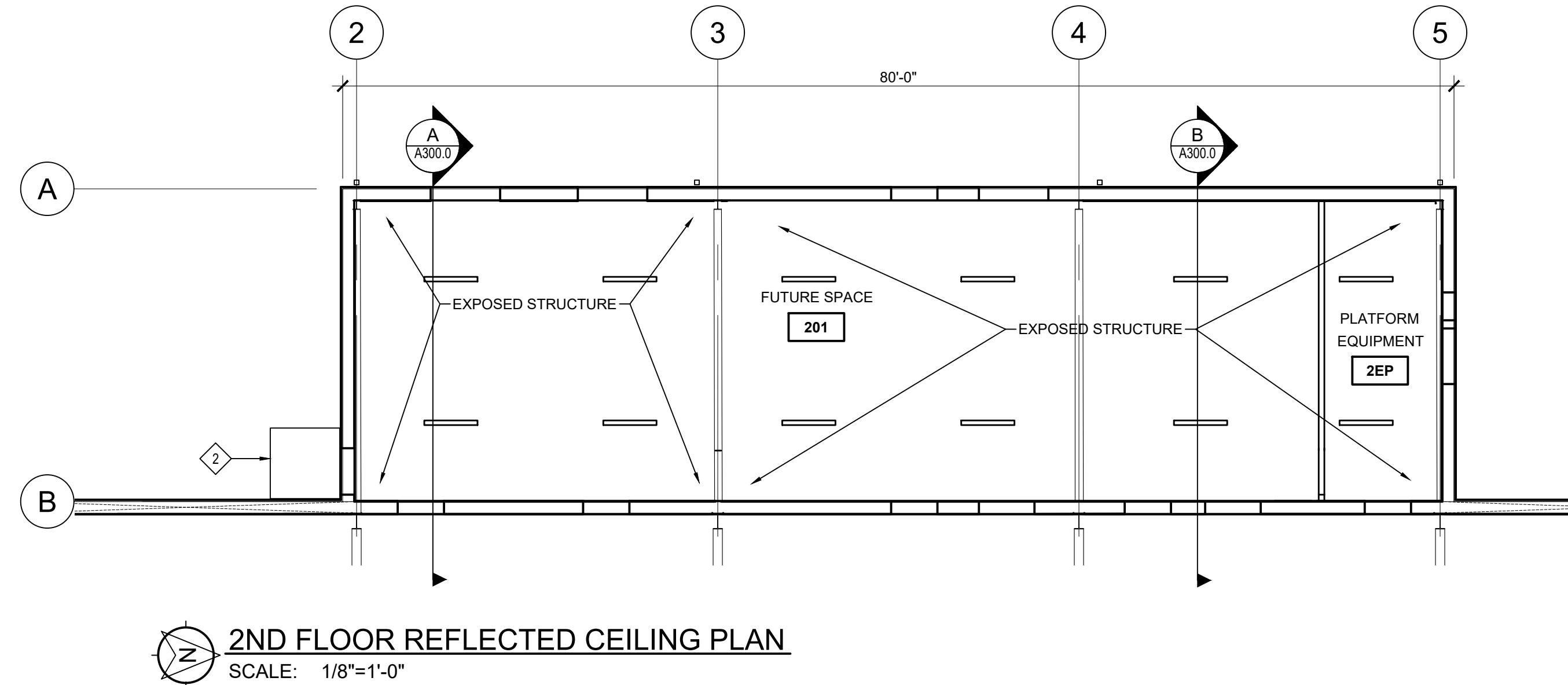
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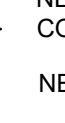
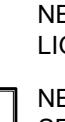
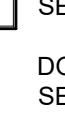
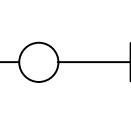
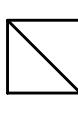


**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

NOTES	E	ISSUED FOR BID	DG	TJ	TJ	01-14-26	McDUFFIE TERMINAL IMPROVEMENTS
	D	100% DESIGN REVIEW	DG	SM	SM	09-09-25	NEW FABRICATION SHOP PACKAGE
	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25	1ST FLOOR REFLECTED CEILING PLAN
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25	
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25	FOR: ALABAMA PORT AUTHORITY
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE	DRAWN: DG CK'D: TJ APP'D: TJ DATE: 01-14-26 SCALE: AS NOTED
							PROJECT NO: 4617 DWG NO: A101.1 REV: E



## SYMBOLS LEGEND:

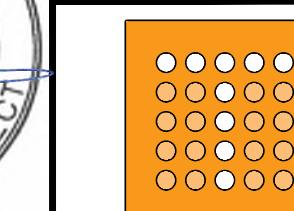
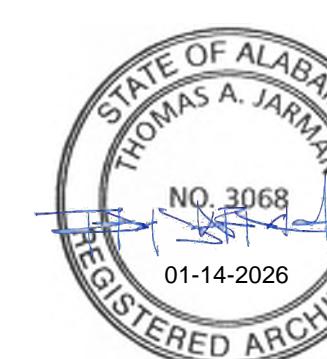
	ELEVATION NUMBER EXTERIOR ELEVATION TAG SHEET NUMBER
	SECTION LETTER SECTION TAG SHEET NUMBER
	DETAIL NUMBER DETAIL BUBBLE TAG SHEET NUMBER
<b>WORKOUT</b>	
	ROOM NAME ROOM NUMBER
	NEW EXTERIOR WALL CONSTRUCTION
	NEW PARTITION WALLS
	NEW 2x2 LAY-IN ACOUSTICAL CEILING TILE AND GRID
	GYPSUM CEILING. SEE FINISH SCHEDULE
	NEW EXIT SIGN / EMERGENCY LIGHT. SEE ELECTRICAL
	NEW 2x4 LIGHT FIXTURE. SEE ELECTRICAL
	DLIGHT SURFACE MOUNTED. SEE ELECTRICAL
	NEW HIGH BAY FIXTURE- SEE ELECTRICAL
	NEW 4' LINEAR PENDANT - SEE ELECTRICAL
	NEW EMERGENCY LIGHT. SEE ELECTRICAL
	NEW SUPPLY AIR GRILLE. SEE MECHANICAL
	NEW RETURN GRILLE. SEE MECHANICAL
	NEW EXHAUST FAN. SEE MECHANICAL

## GENERAL NOTES:

1. SEE A100 SHEETS FOR FLOOR PLANS.
2. SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
3. SEE A102 SHEETS FOR ROOF PLANS
4. SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
5. SEE A200 SHEETS FOR BUILDING ELEVATIONS
6. SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
7. SEE A300 SHEETS FOR BUILDING SECTIONS.
8. SEE A400 SHEETS FOR PARTITION TYPES.
9. SEE A500 FOR DETAILS
10. SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

## SHEET KEYNOTES:

-  1 PRE-ENGINEERED METAL BUILDING CANOPY
-  2 PRE-FINISHED METAL CANOPY



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**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

CLIENT DWG NO:

## McDUFFIE TERMINAL IMPROVEMENTS

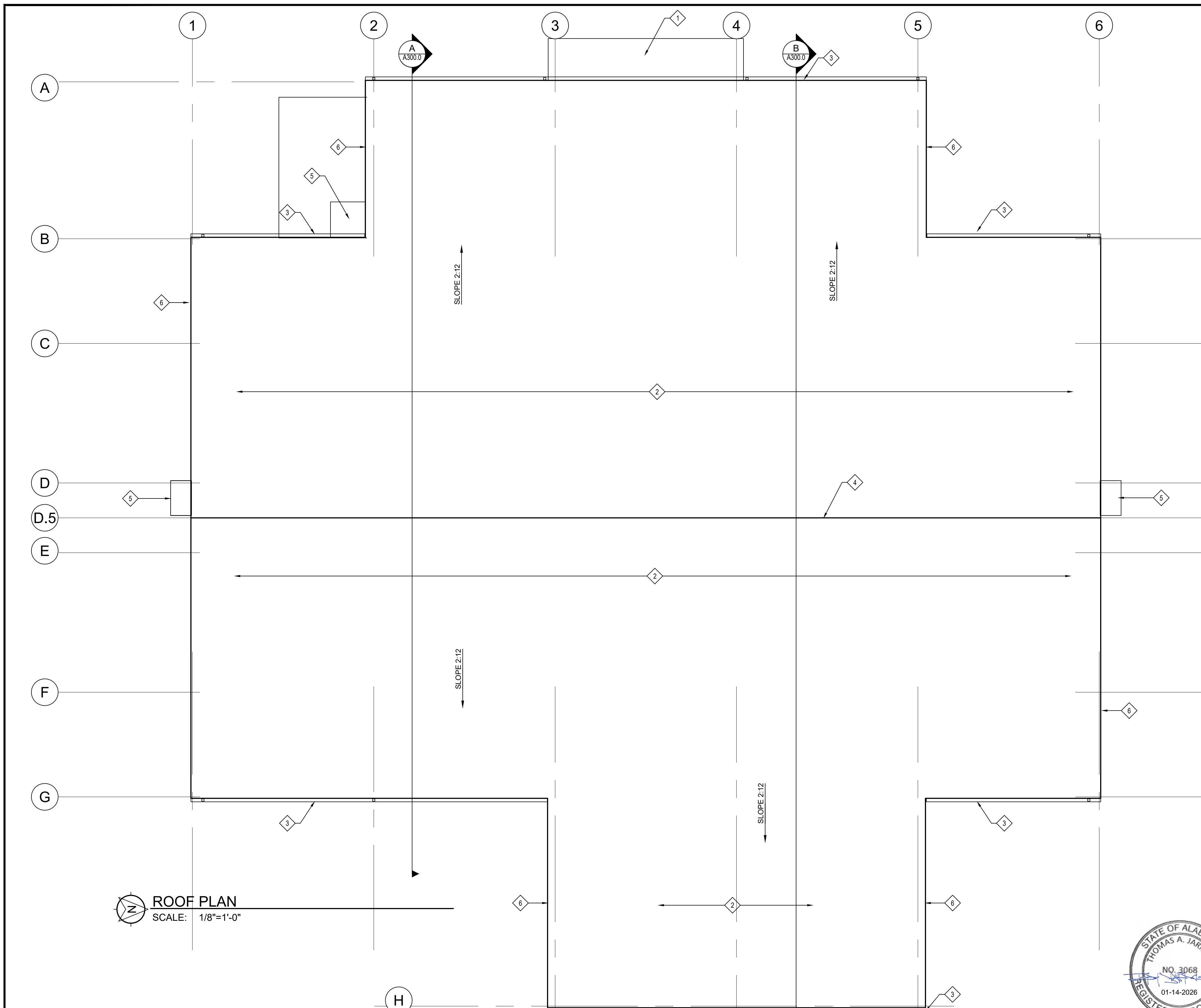
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## 2ND FLOOR REFLECTED CEILING PLAN

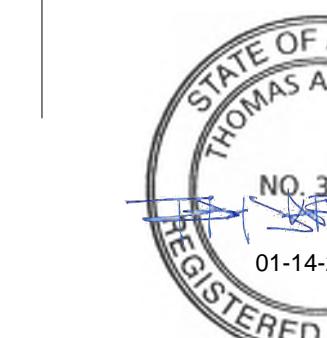
11. *What is the primary purpose of the following statement?*

FOR: ALABAMA PORT AUTHORITY

REV:



NOTES					
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		D	100% DESIGN REVIEW	DG	SM
		C	95% DESIGN REVIEW	DG	SM
		B	60% DESIGN REVIEW	DG	SM
		A	30% DESIGN REVIEW	DG	SM
	REFERENCE DRAWINGS	NO.	REVISION	DRW	C'D
				APP'D	





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**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

CLIENT DWG NO:

## McDUFFIE TERMINAL IMPROVEMENTS

## NEW FABRI

09-09-25 PORT SERVICES, LLC NEW FABRICATION SHOT PACKAGE

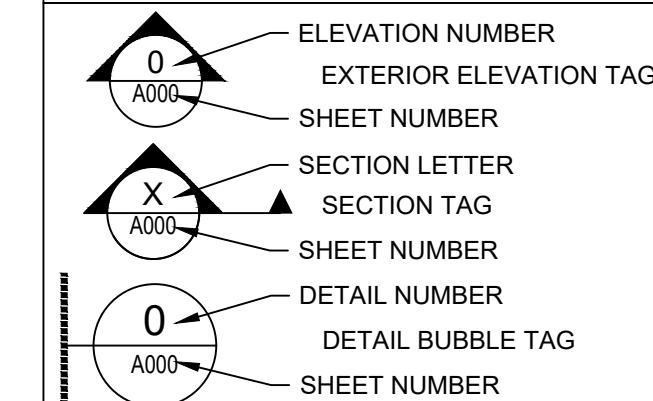
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04-11-25 FOR: ALABAMA PORT AUTHORITY

DATE DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED PROJECT NO: 4617 DWG NO: A102.0

Form CMS-630

## SYMBOLS LEGEND:



## GENERAL NOTES:

1. SEE A100 SHEETS FOR FLOOR PLANS.
2. SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
3. SEE A102 SHEETS FOR ROOF PLANS
4. SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
5. SEE A200 SHEETS FOR BUILDING ELEVATIONS
6. SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
7. SEE A300 SHEETS FOR BUILDING SECTIONS.
8. SEE A400 SHEETS FOR PARTITION TYPES.
9. SEE A500 FOR DETAILS
10. SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

## SHEET KEYNOTES

- 1 PRE-ENGINEERED METAL BUILDING CANOPY
- 2 PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
- 3 PRE-FINISHED METAL EDGE FLASHING,  
GUTTER AND DOWNSPOUTS - PROVIDE SPLASH  
BLOCK AT EACH DOWNSPOUT
- 4 PRE-FINISHED METAL RIDGE FLASHING
- 5 PRE-FINISHED METAL CANOPY
- 6 METAL EDGE FLASHING / TRIM

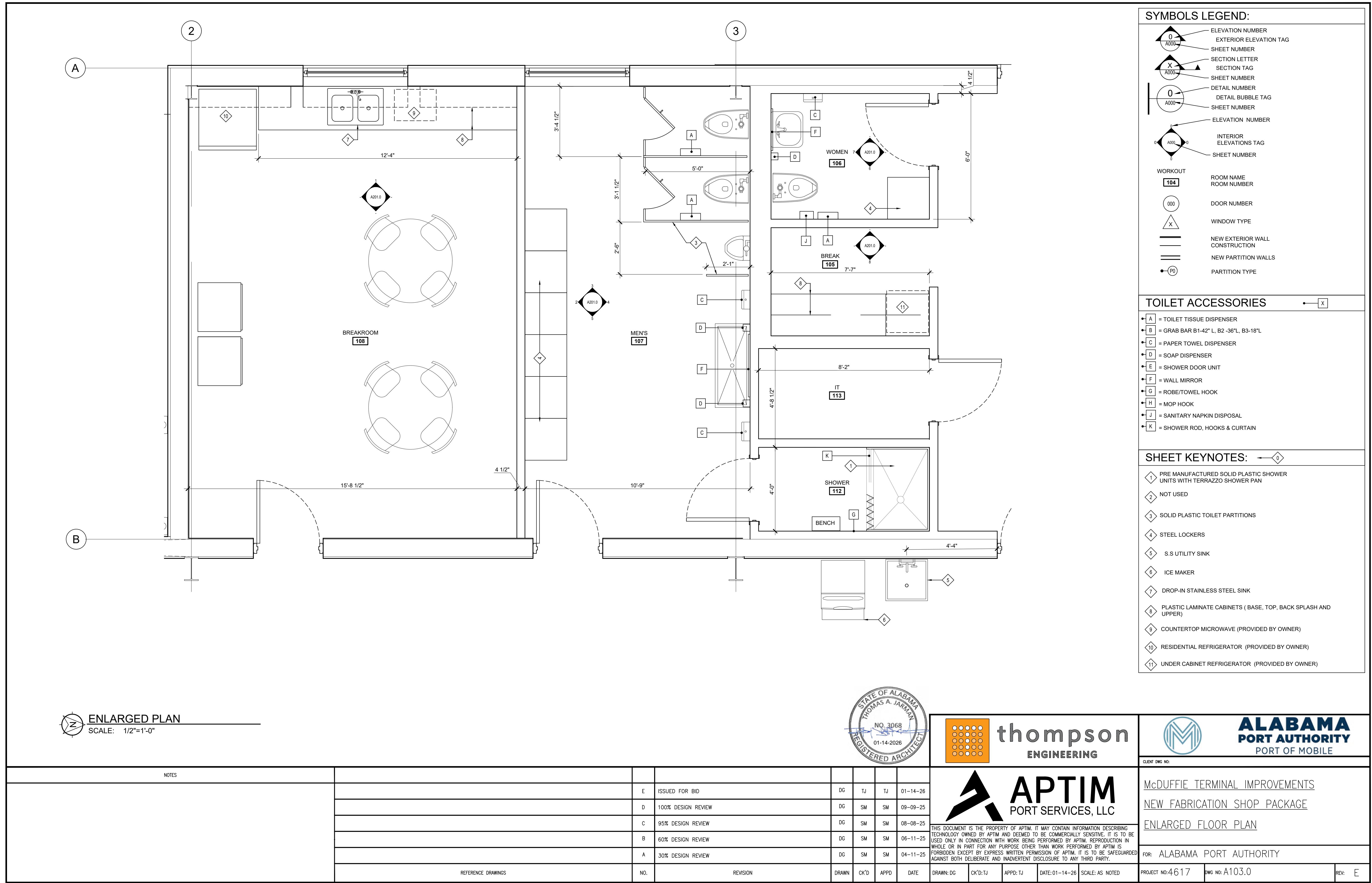
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06-11-25	
04-11-25	

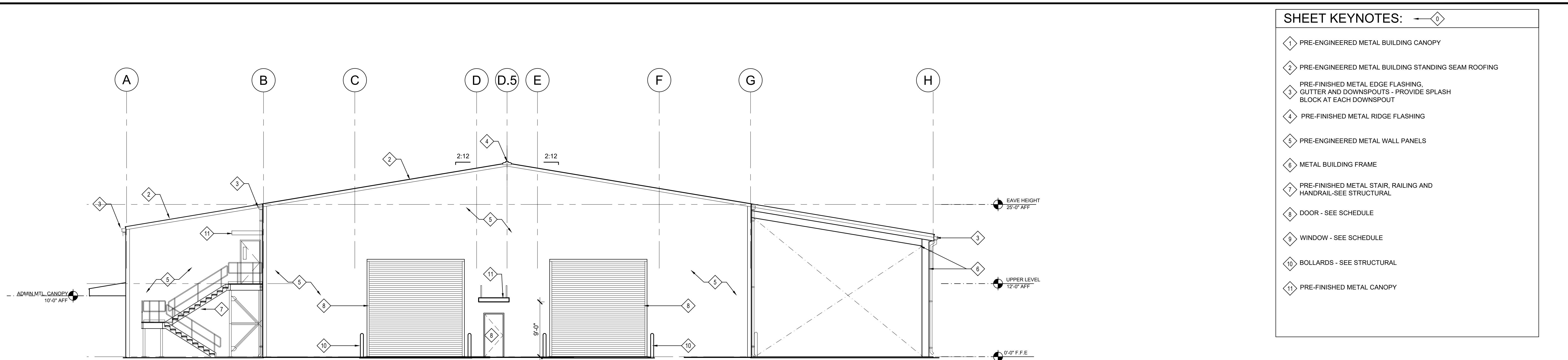
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DATE DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED

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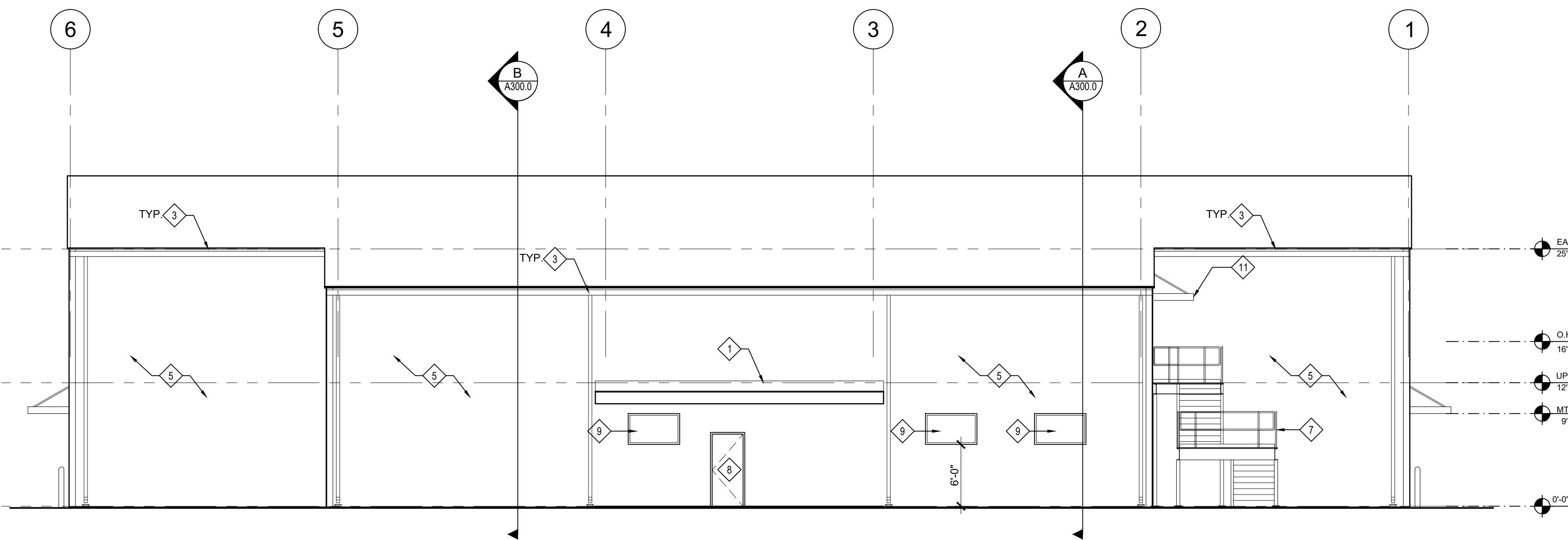


SHEET KEYNOTES: ← ◊

- 1 PRE-ENGINEERED METAL BUILDING CANOPY
- 2 PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
- 3 PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
- 4 PRE-FINISHED METAL RIDGE FLASHING
- 5 PRE-ENGINEERED METAL WALL PANELS
- 6 METAL BUILDING FRAME
- 7 PRE-FINISHED METAL STAIR, RAILING AND HANDRAIL-SEE STRUCTURAL
- 8 DOOR - SEE SCHEDULE
- 9 WINDOW - SEE SCHEDULE
- 10 BOLLARDS - SEE STRUCTURAL
- 11 PRE-FINISHED METAL CANOPY

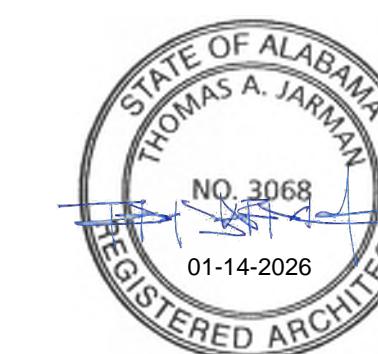
1 EXTERIOR ELEVATION

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



2 EXTERIOR ELEVATION

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



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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

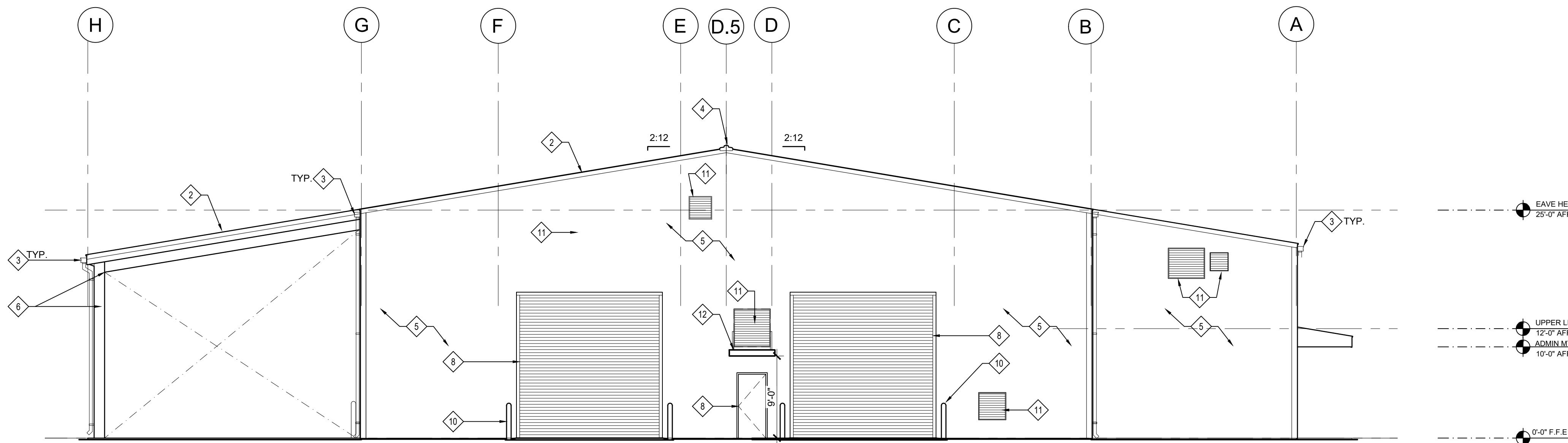
EXTERIOR ELEVATIONS

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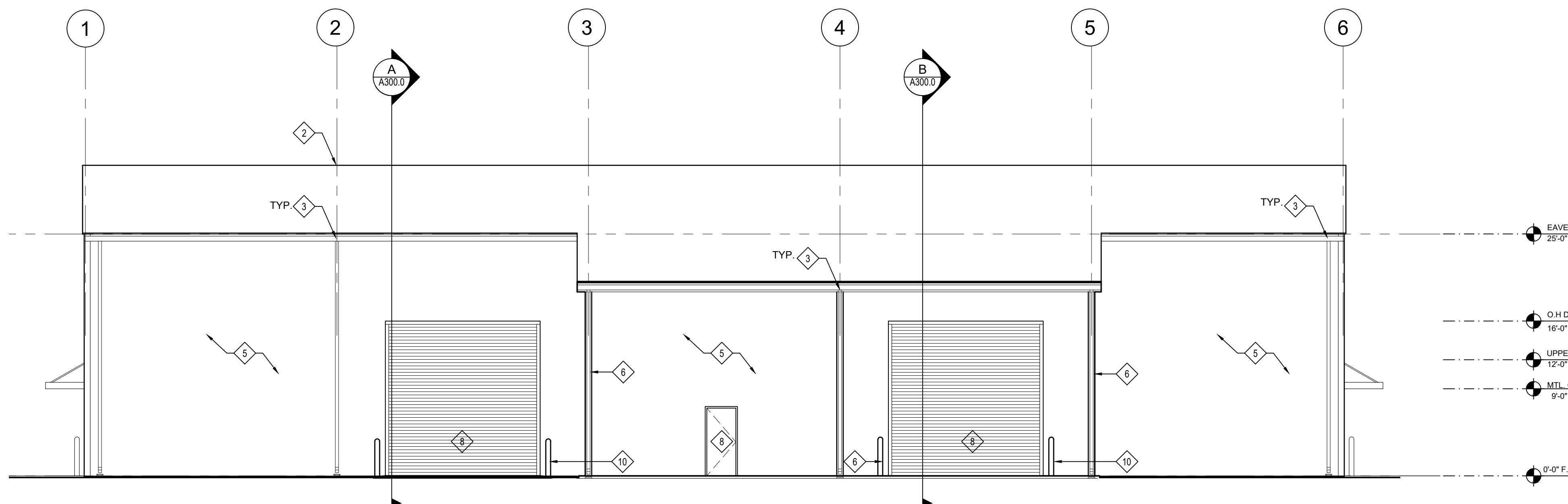
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	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE
			DRAWN: DG	CK'D: TJ	APP'D: TJ	DATE: 01-14-26
			SCALE: AS NOTED	PROJECT NO: 4617	DWG NO: A200.0	REV: E



SHEET KEYNOTES:	
1	PRE-ENGINEERED METAL BUILDING CANOPY
2	PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
3	PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
4	PRE-FINISHED METAL RIDGE FLASHING
5	PRE-ENGINEERED METAL WALL PANELS
6	METAL BUILDING FRAME
7	PRE-FINISHED METAL STAIR, RAILING AND HANDRAIL-SEE STRUCTURAL
8	DOOR - SEE SCHEDULE
9	WINDOW - SEE SCHEDULE
10	BOLLARDS - SEE STRUCTURAL
11	EXHAUST/INTAKE FAN - SEE MECHANICAL/ELECTRICAL
12	PRE-FINISHED METAL CANOPY

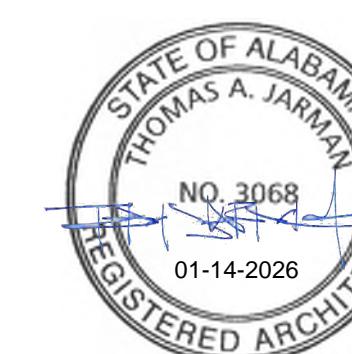
3 EXTERIOR ELEVATION

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



4 EXTERIOR ELEVATION

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



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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

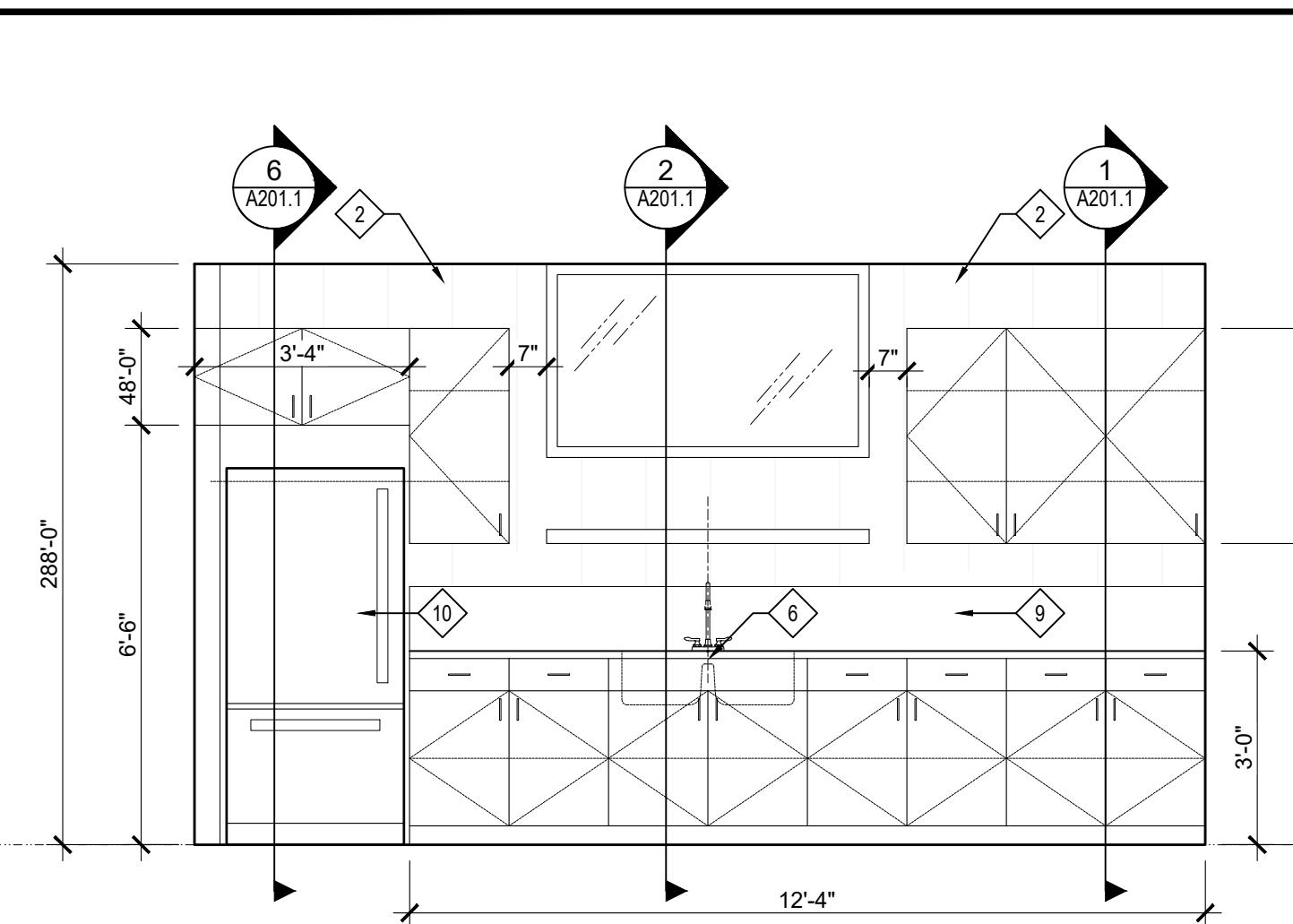
EXTERIOR ELEVATIONS

FOR: ALABAMA PORT AUTHORITY

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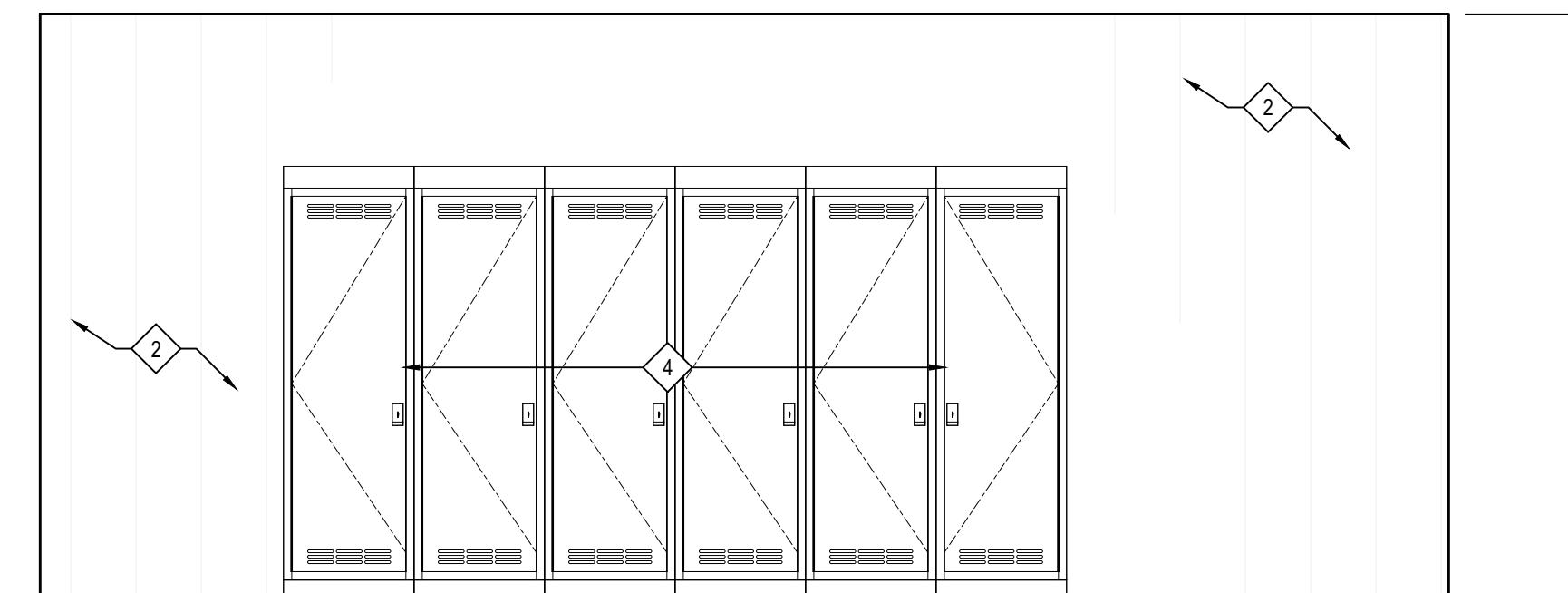
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	D	100% DESIGN REVIEW	DG	SM	SM	09-09-25								
	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25								
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25								
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25								
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: DG	CK'D: TJ	APPD: TJ	DATE: 01-14-26	SCALE: AS NOTED	PROJECT NO: 4617	DWG NO: A200.1	REV: E

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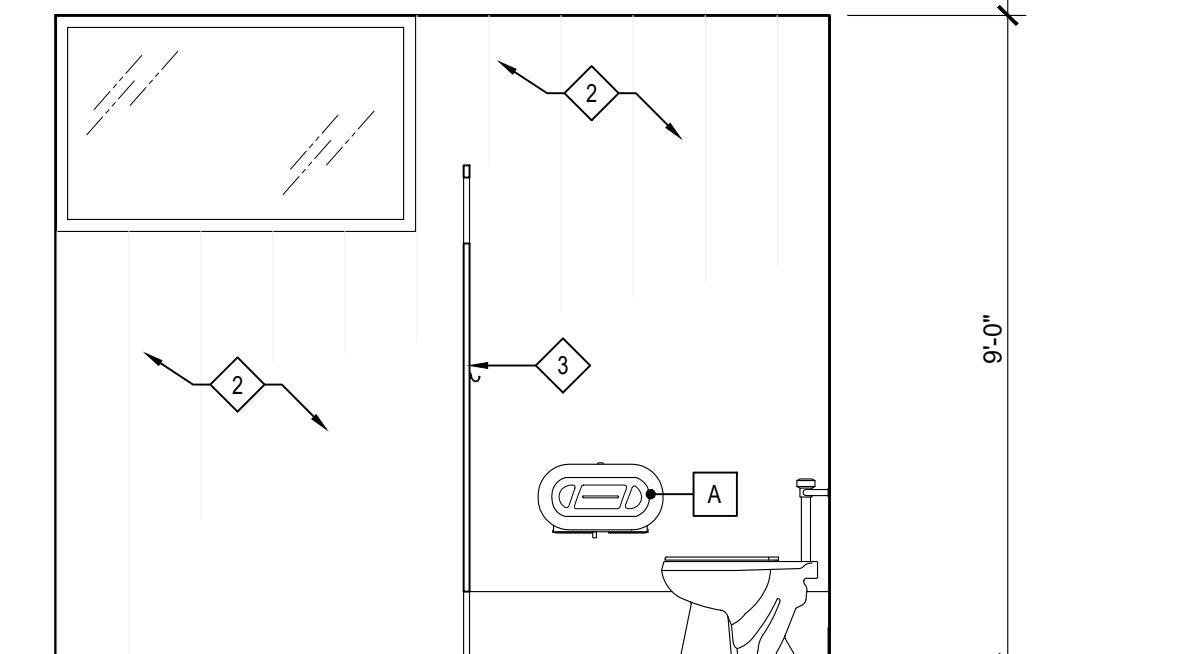
1 INTERIOR ELEVATION

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



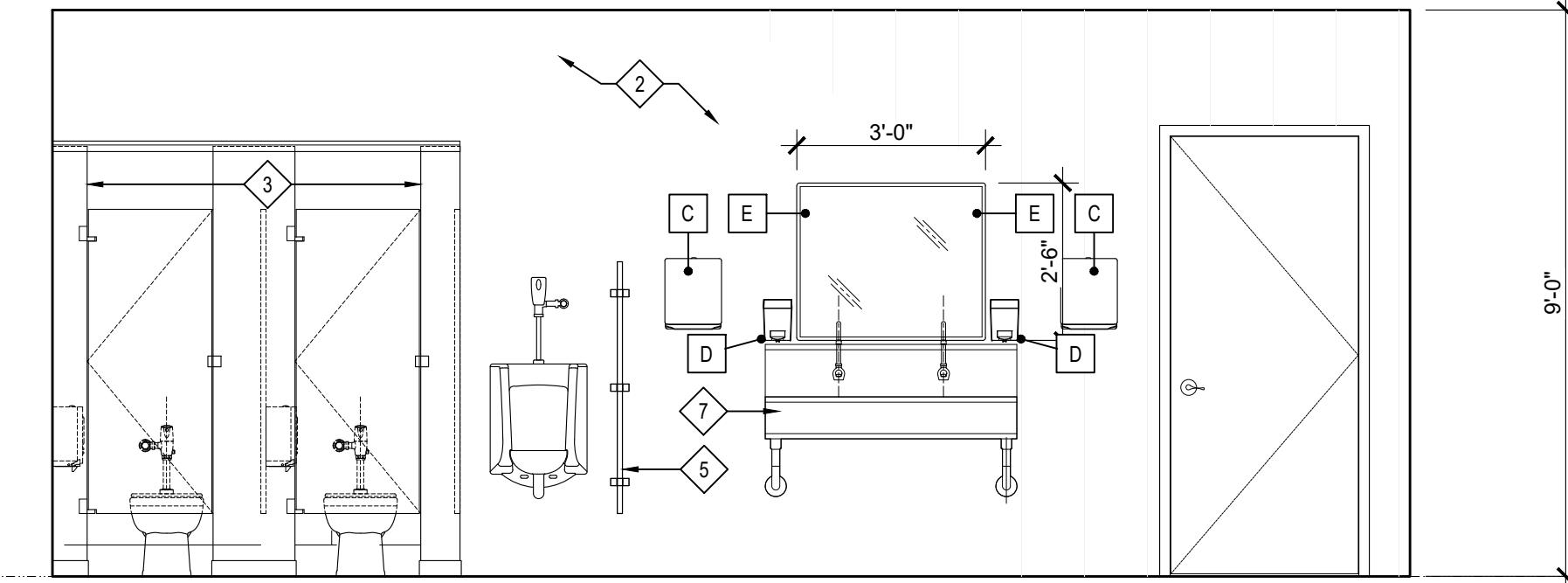
2 INTERIOR ELEVATION

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



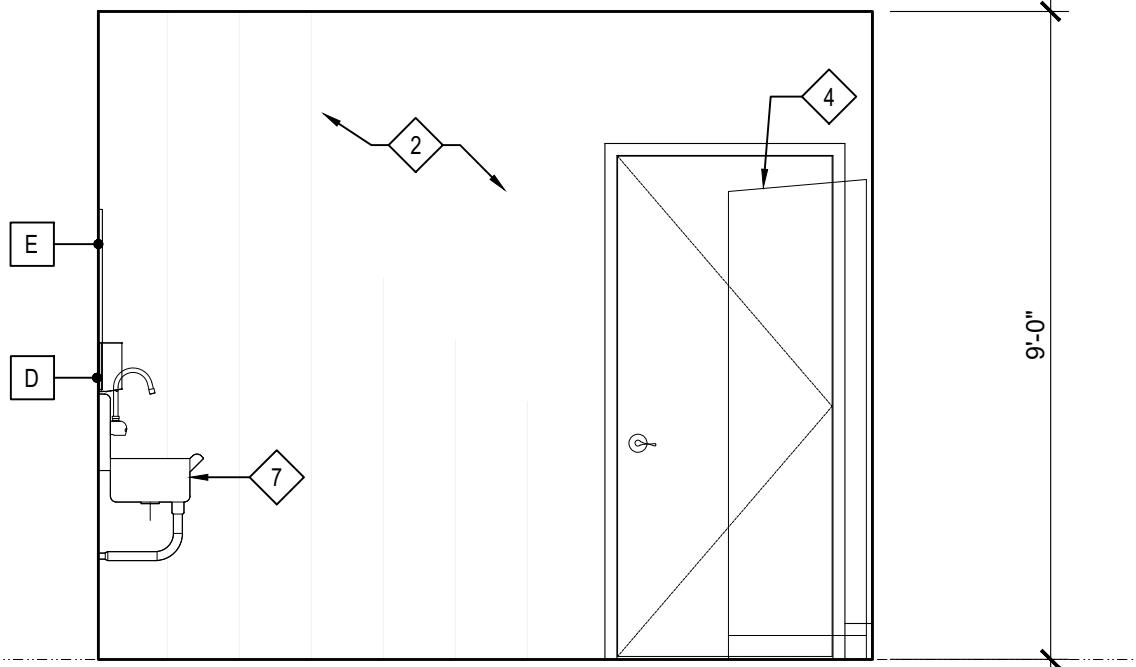
3 INTERIOR ELEVATION

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



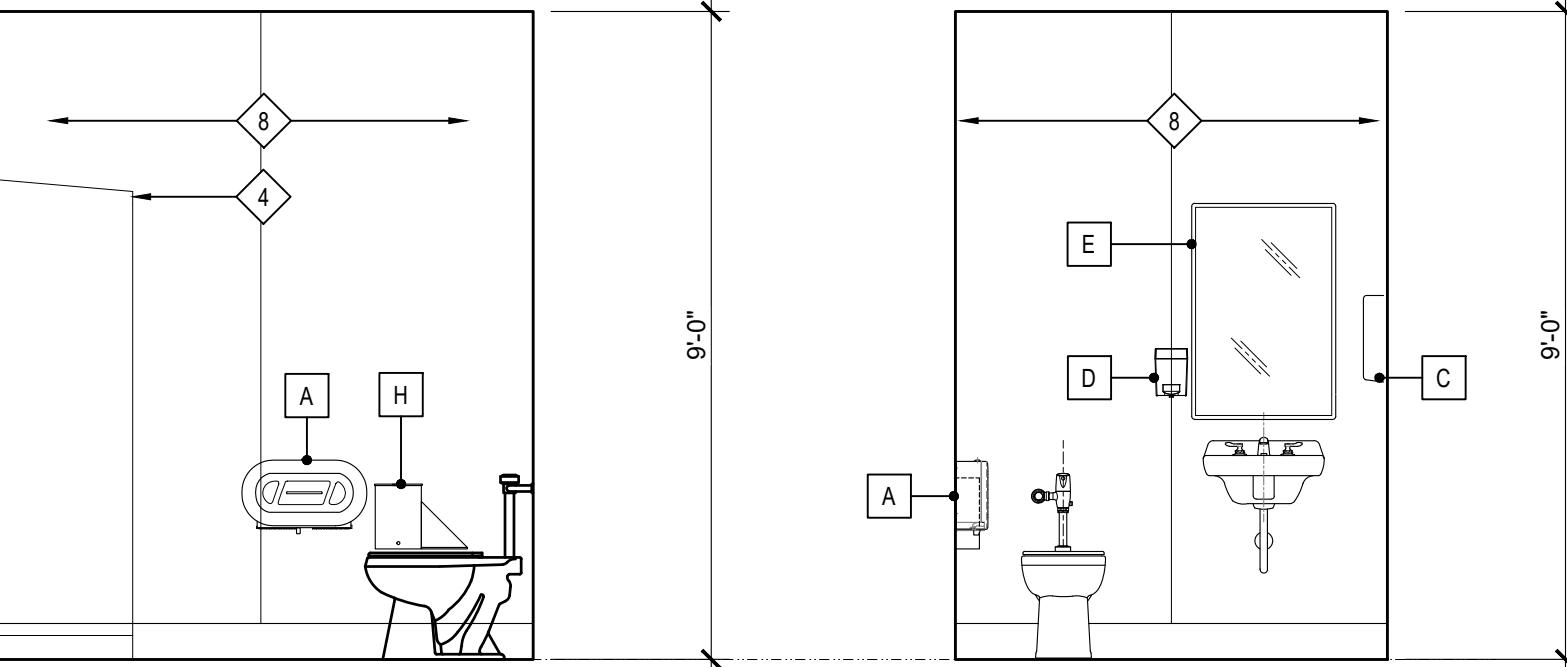
4 INTERIOR ELEVATION

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



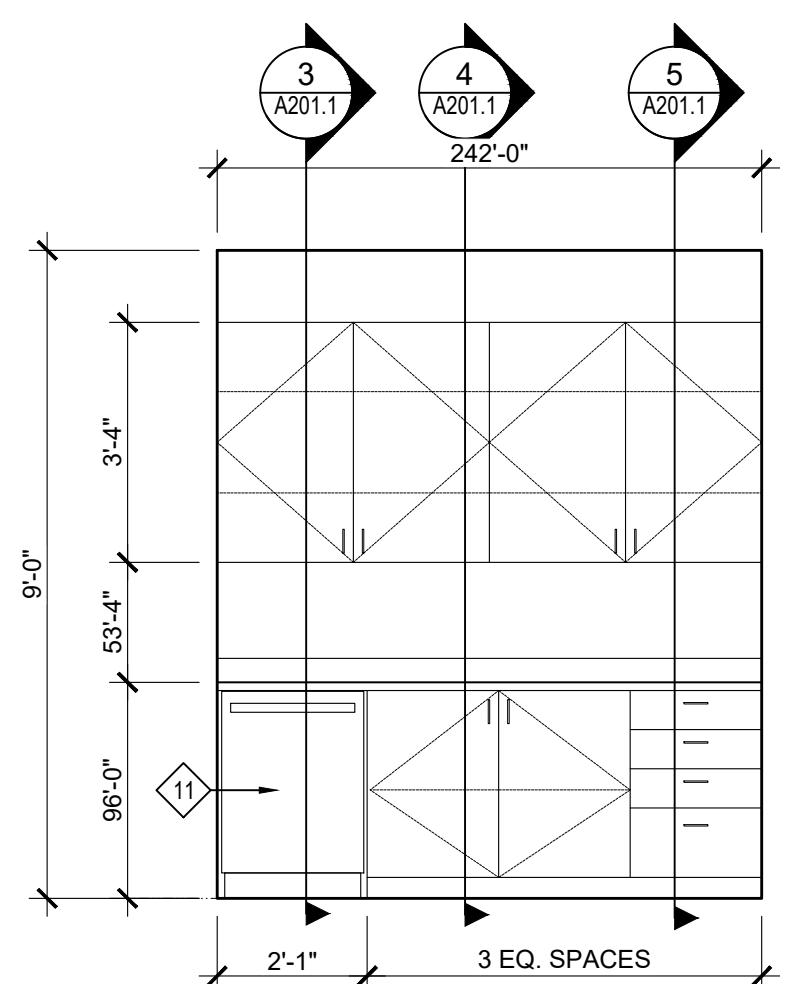
5 INTERIOR ELEVATION

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



6 INTERIOR ELEVATION

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



8 INTERIOR ELEVATION

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

SYMBOLS LEGEND:

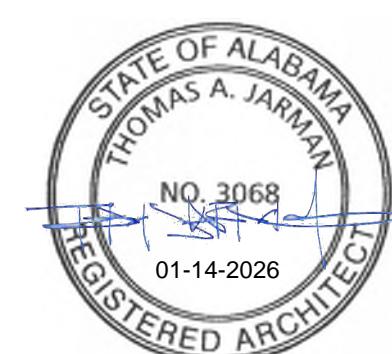
	ELEVATION NUMBER
	EXTERIOR ELEVATION TAG
	SECTION LETTER
	SECTION TAG
	SECTION NUMBER
	DETAIL NUMBER
	DETAIL BUBBLE TAG
	Sheet NUMBER
	WORKOUT
	ROOM NAME
	ROOM NUMBER
	WINDOW TYPE
	NEW EXTERIOR WALL CONSTRUCTION
	NEW PARTITION WALLS
	PARTITION TYPE

TOILET ACCESSORIES

	A = TOILET TISSUE DISPENSER
	B = GRAB BAR B1-42" L, B2-36" L, B3-18" L
	C = PAPER TOWEL DISPENSER
	D = SOAP DISPENSER
	E = WALL MIRROR
	F = ROBE/TOWEL HOOK
	G = MOP HOOK
	H = SANITARY NAPKIN DISPOSAL
	J = SHOWER ROD, HOOKS & CURTAIN
	K = TRASH RECEPTACLE

SHEET KEYNOTES:

	PRE MANUFACTURED SOLID PLASTIC SHOWER UNITS WITH TERRAZZO SHOWER PAN
	METAL LINEAR PANELS WALL FULL HEIGHT.
	SOLID PLASTIC TOILET PARTITIONS
	STEEL LOCKERS
	SOLID PLASTIC URINAL SCREEN
	DROP-IN STAINLESS STEEL SINK
	WALL-MOUNTED SS HAND SINK
	FRP PANELS WALL FULL HEIGHT.
	COUNTERTOP MICROWAVE (PROVIDED BY OWNER)
	RESIDENTIAL REFRIGERATOR (PROVIDED BY OWNER)
	UNDERCABINET REFRIGERATOR (PROVIDED BY OWNER)



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PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

INTERIOR ELEVATION

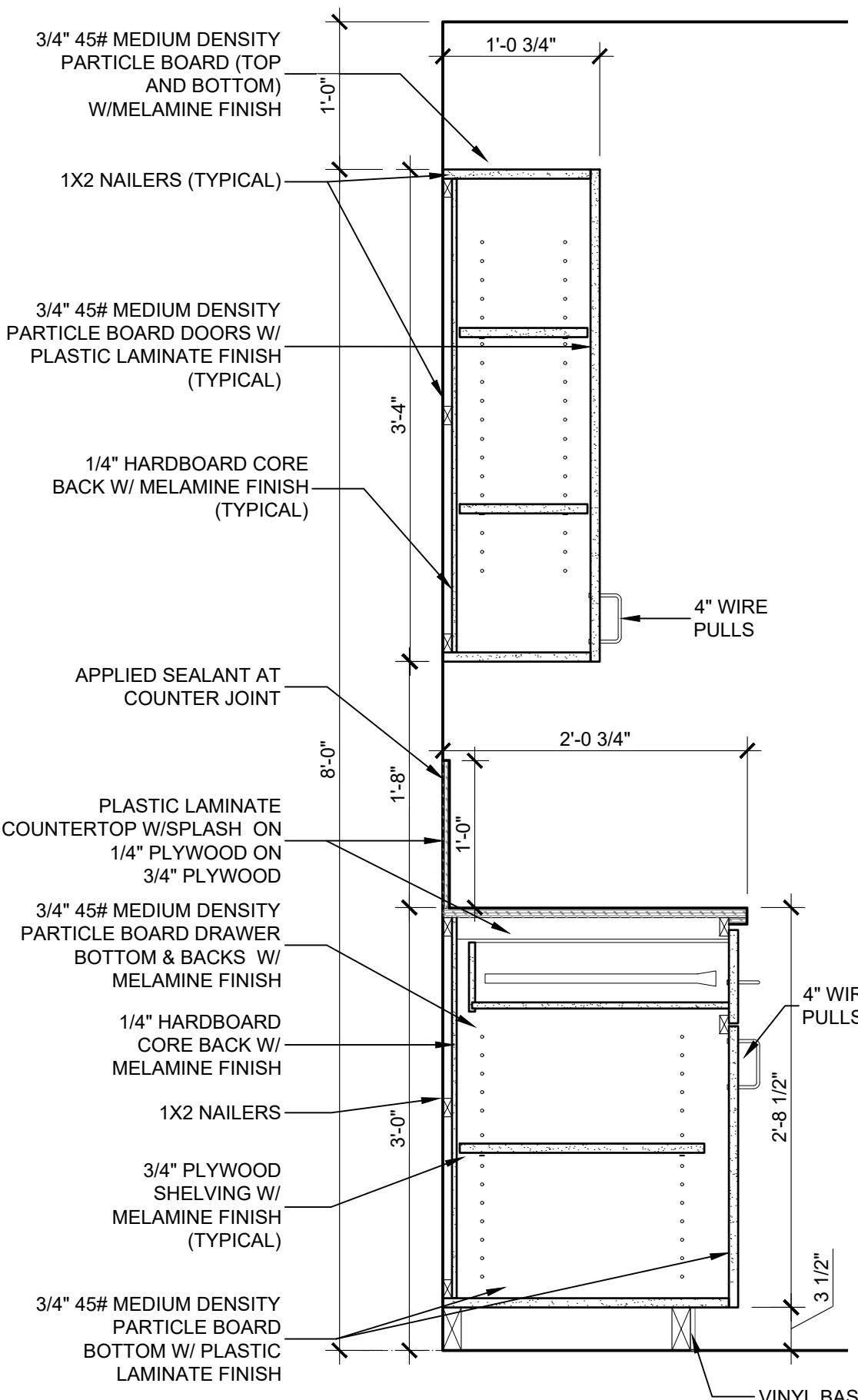
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: A201.0

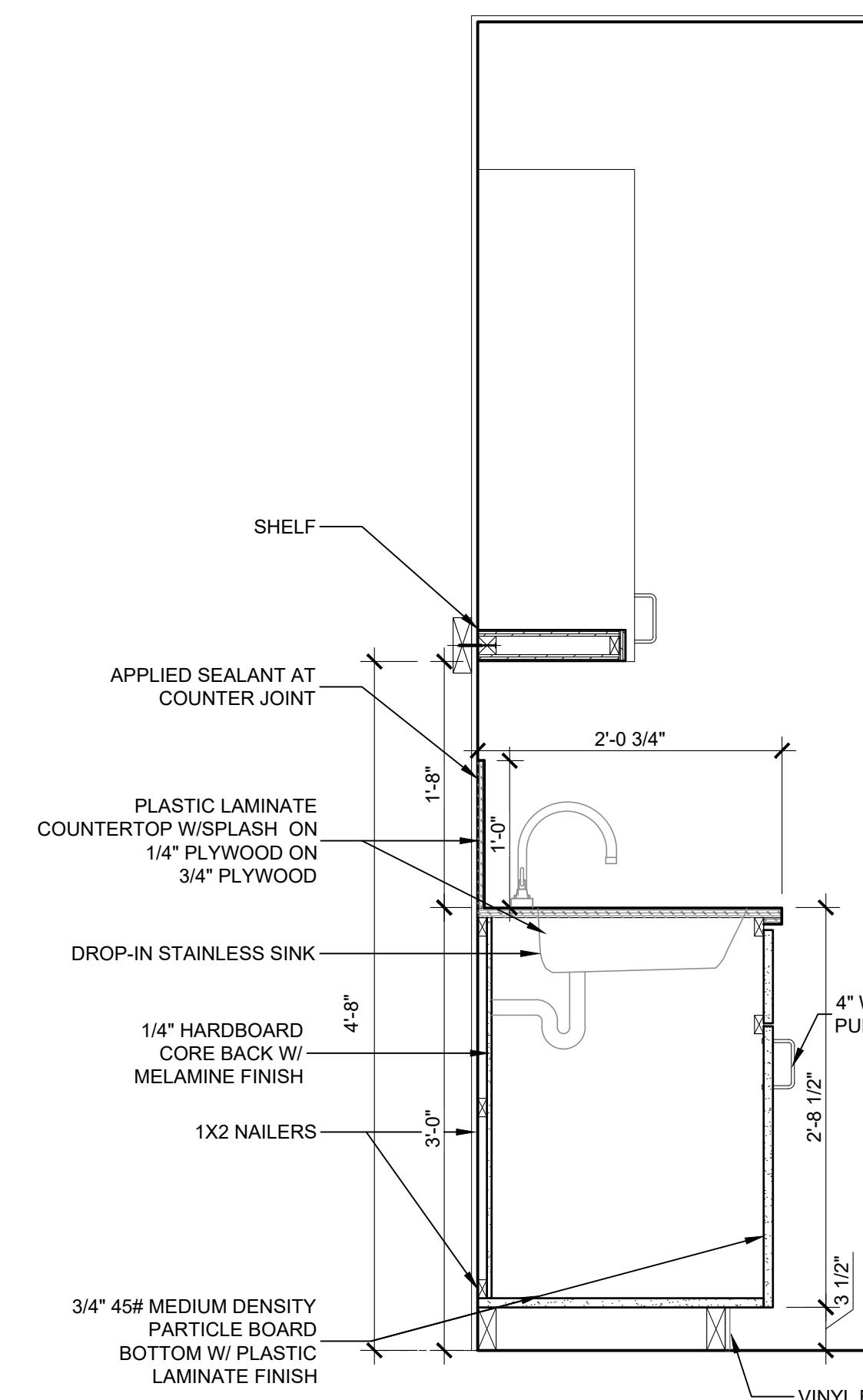
REV: E

NOTES					
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	C	95% DESIGN REVIEW	DG	SM	SM 08-08-25
	B	60% DESIGN REVIEW	DG	SM	SM 06-11-25
	A	30% DESIGN REVIEW	DG	SM	SM 04-11-25
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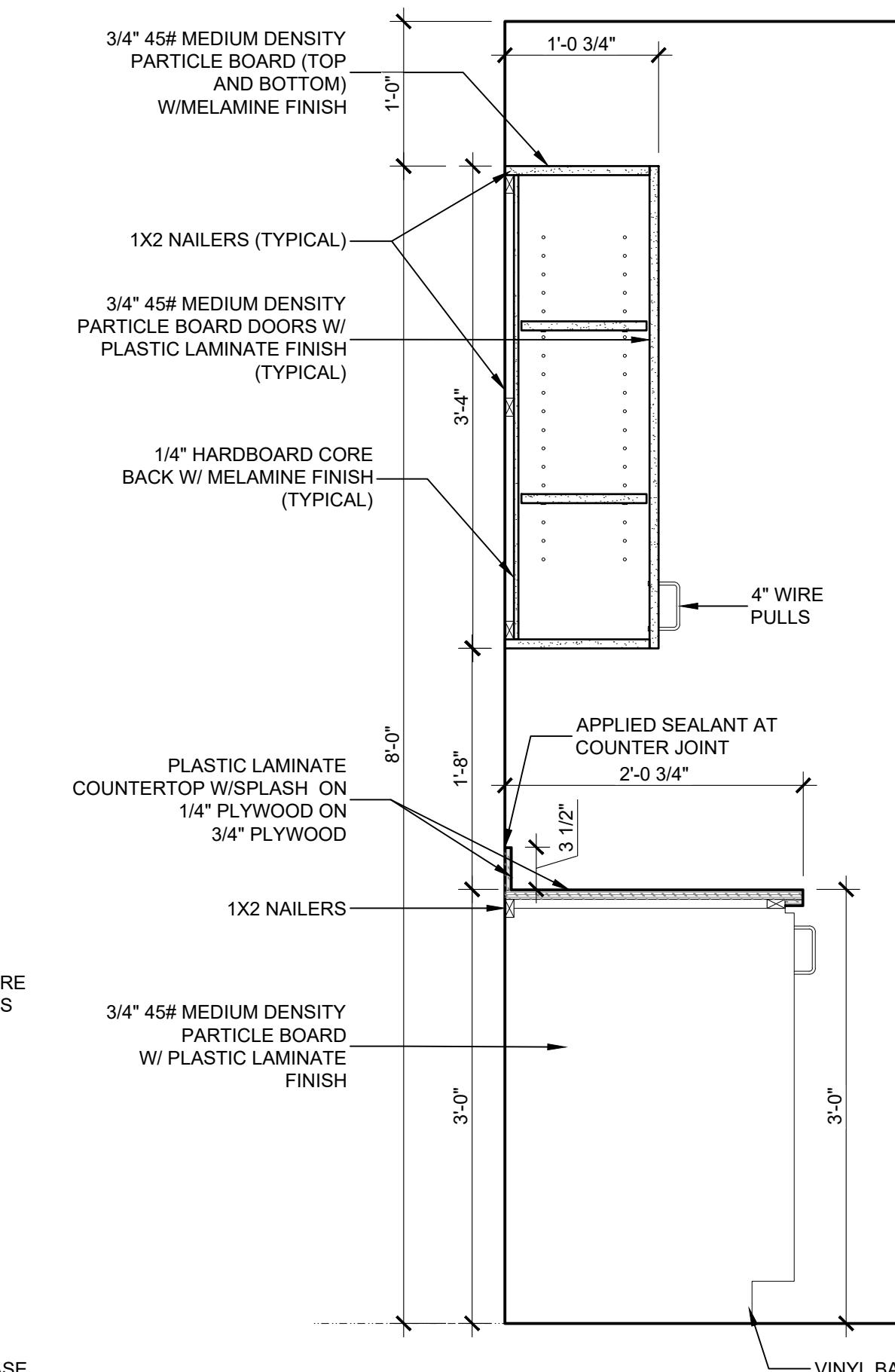
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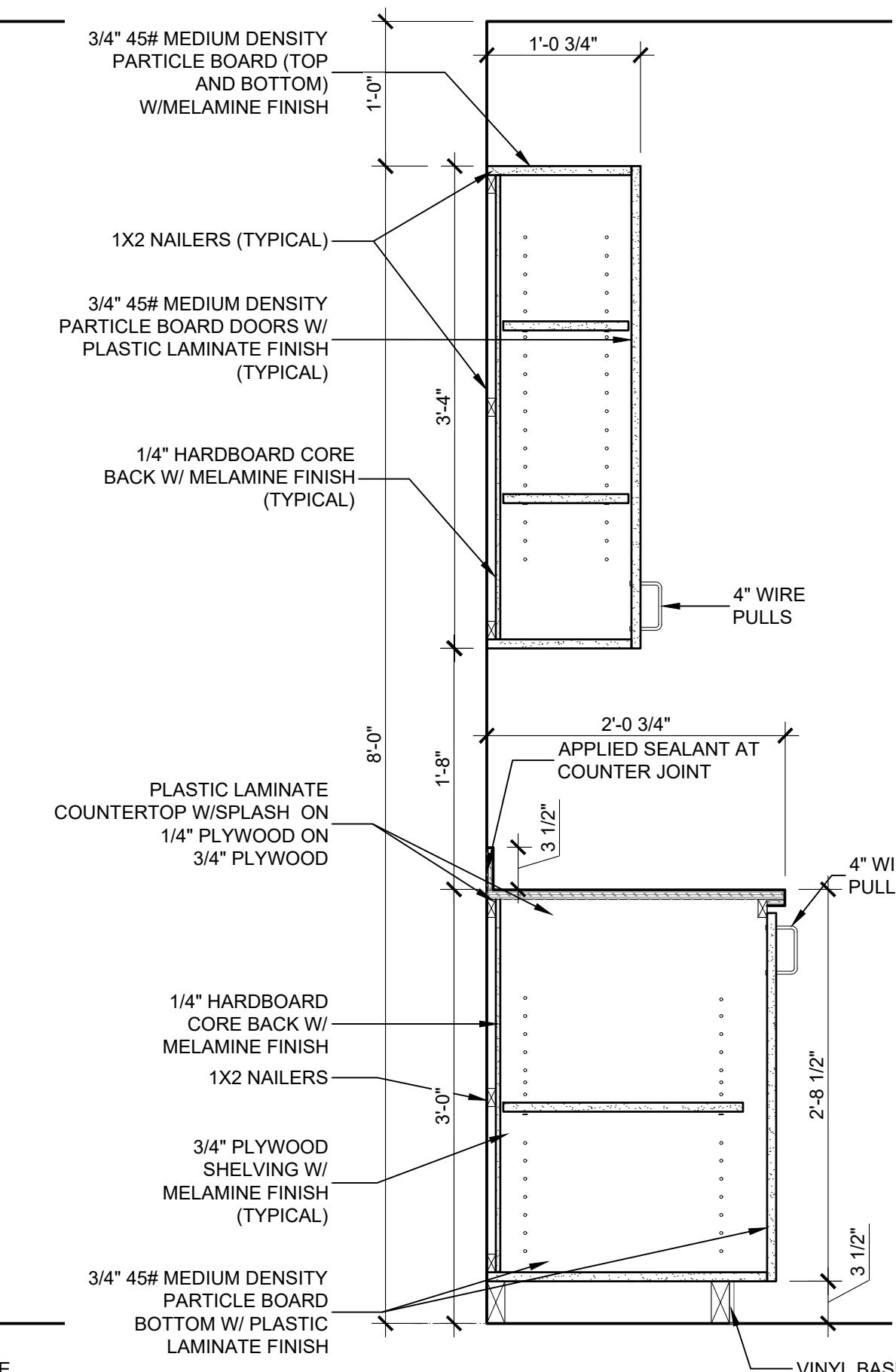
**1 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"



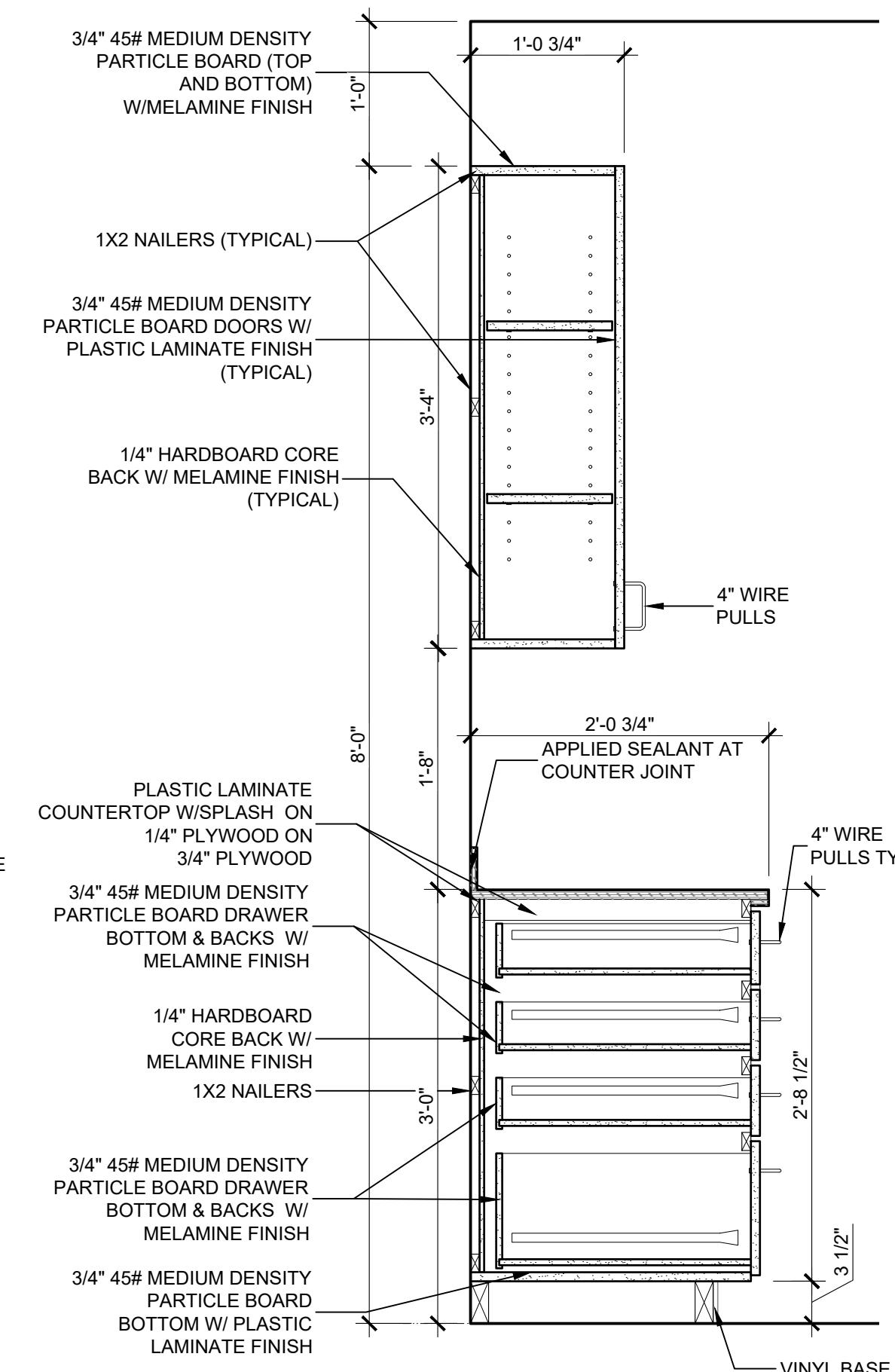
**2 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"



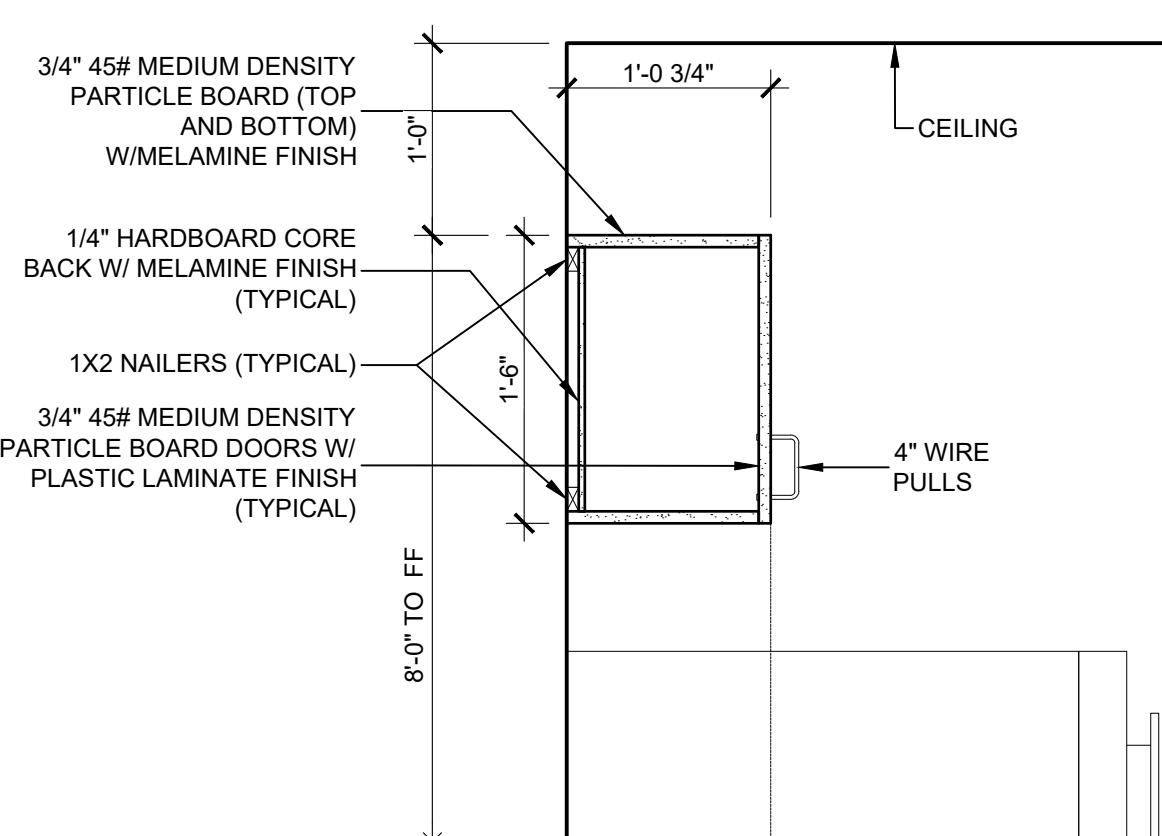
**3 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"



**4 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"



**5 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"



**6 COUNTER DETAIL**  
SCALE: 1-1/2"=1'-0"

NOTES	E	ISSUED FOR BID	DG	TJ	TJ	01-14-26
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	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
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			SCALE: AS NOTED			
			PROJECT NO: 4617	DWG NO: A201.1		REV: E



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**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

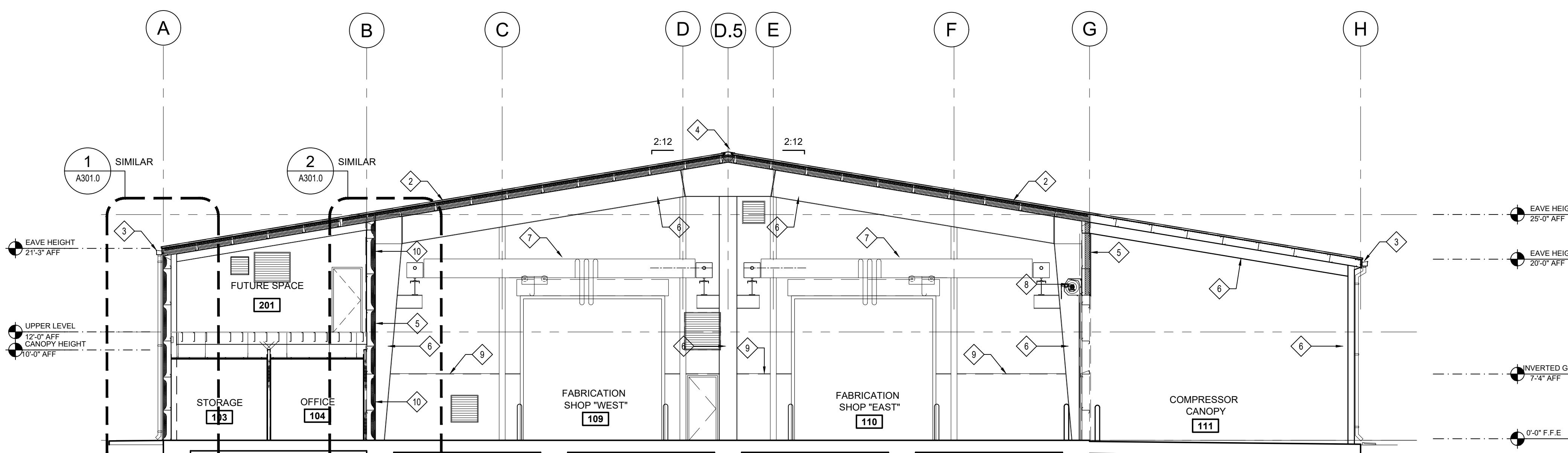
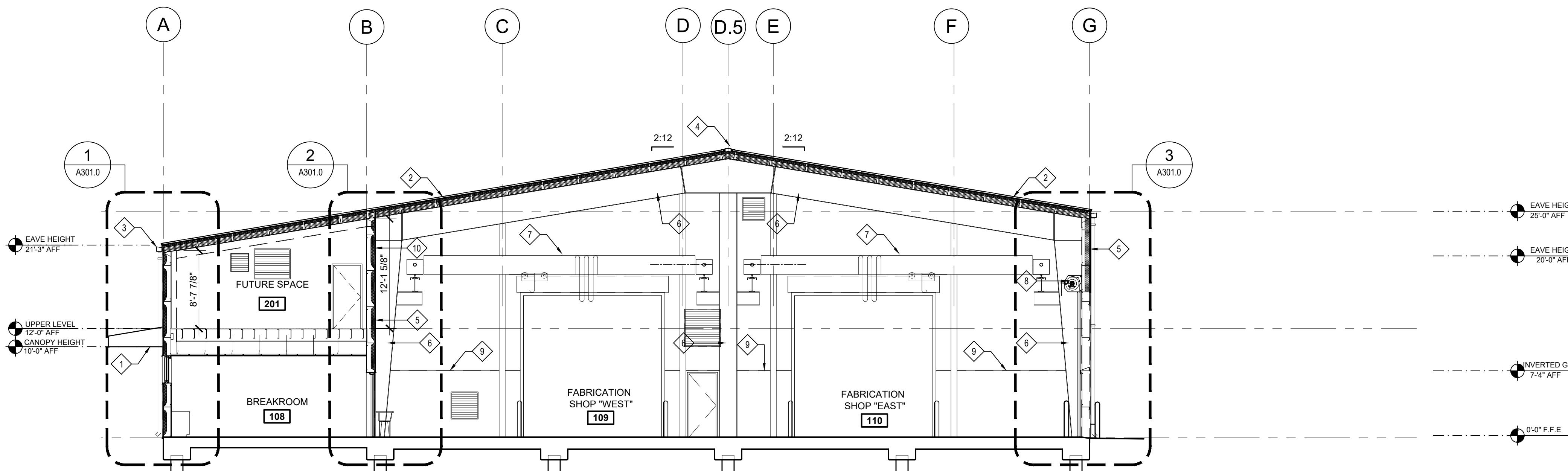
MILLWORK DETAILS

FOR: ALABAMA PORT AUTHORITY

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Form CIB-530-03-FM-02104 Rev. A01.00

SHEET KEYNOTES:	
1	PRE-ENGINEERED METAL BUILDING CANOPY
2	PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
3	PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
4	PRE-FINISHED METAL RIDGE FLASHING
5	PRE-ENGINEERED METAL WALL PANELS
6	METAL BUILDING FRAME PAINTED
7	CRANE - SEE STRUCTURAL
8	OVERHEAD DOOR - SEE STRUCTURAL
9	LINER PANELS AT 7'-4" INVERTED GIRT W/FLASHING (TYP)
10	LINER PANELS FULL HEIGHT



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PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

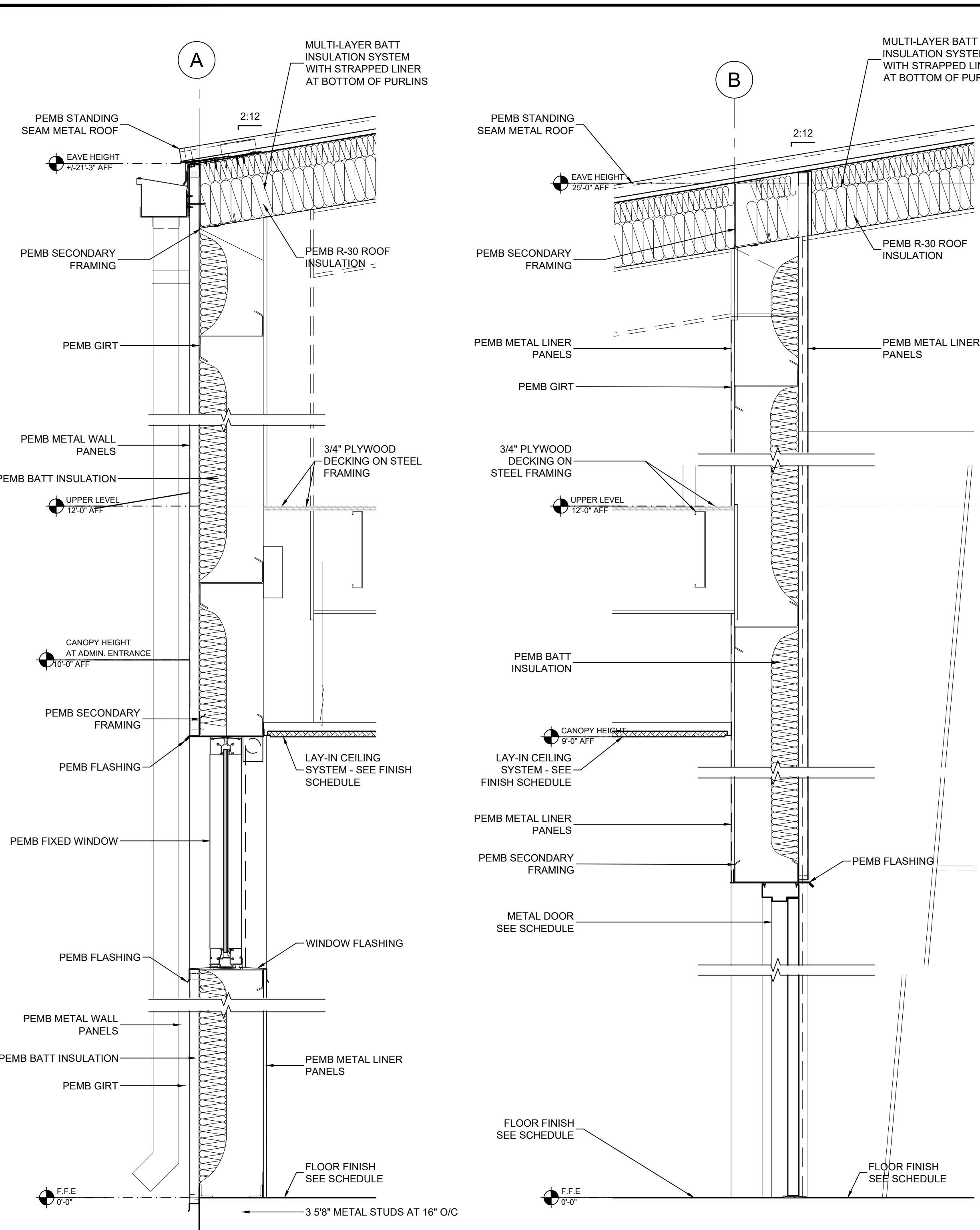
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
BUILDING SECTIONS

FOR: ALABAMA PORT AUTHORITY

**APTIM**  
PORT SERVICES, LLC

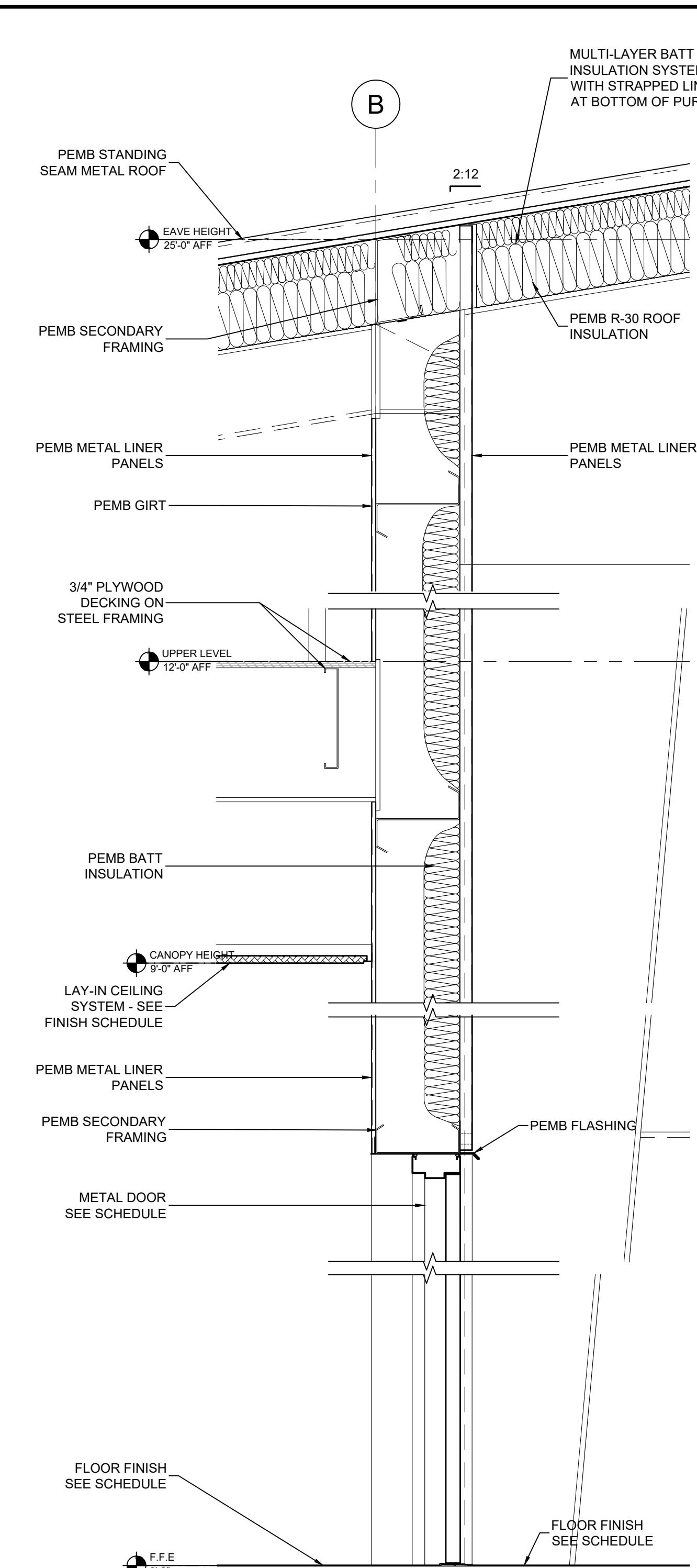
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	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25								
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25								
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25								
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE	DRAWN: DG	CK'D: TJ	APP'D: TJ	DATE: 01-14-26	SCALE: AS NOTED	PROJECT NO: 4617	DWG NO: A300.0	REV: E



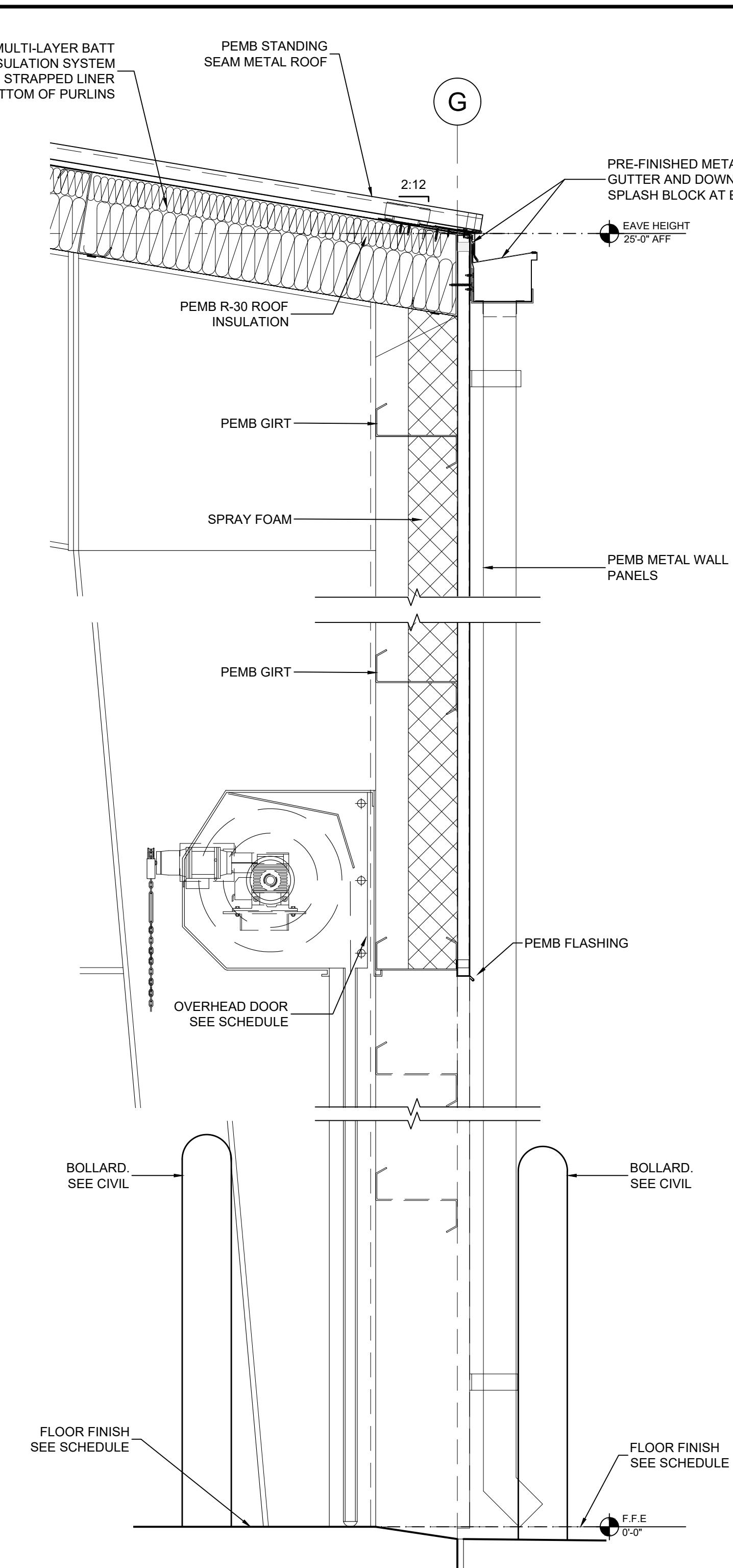
1 WALL SECTION

SCALE: 1"=1'-0"



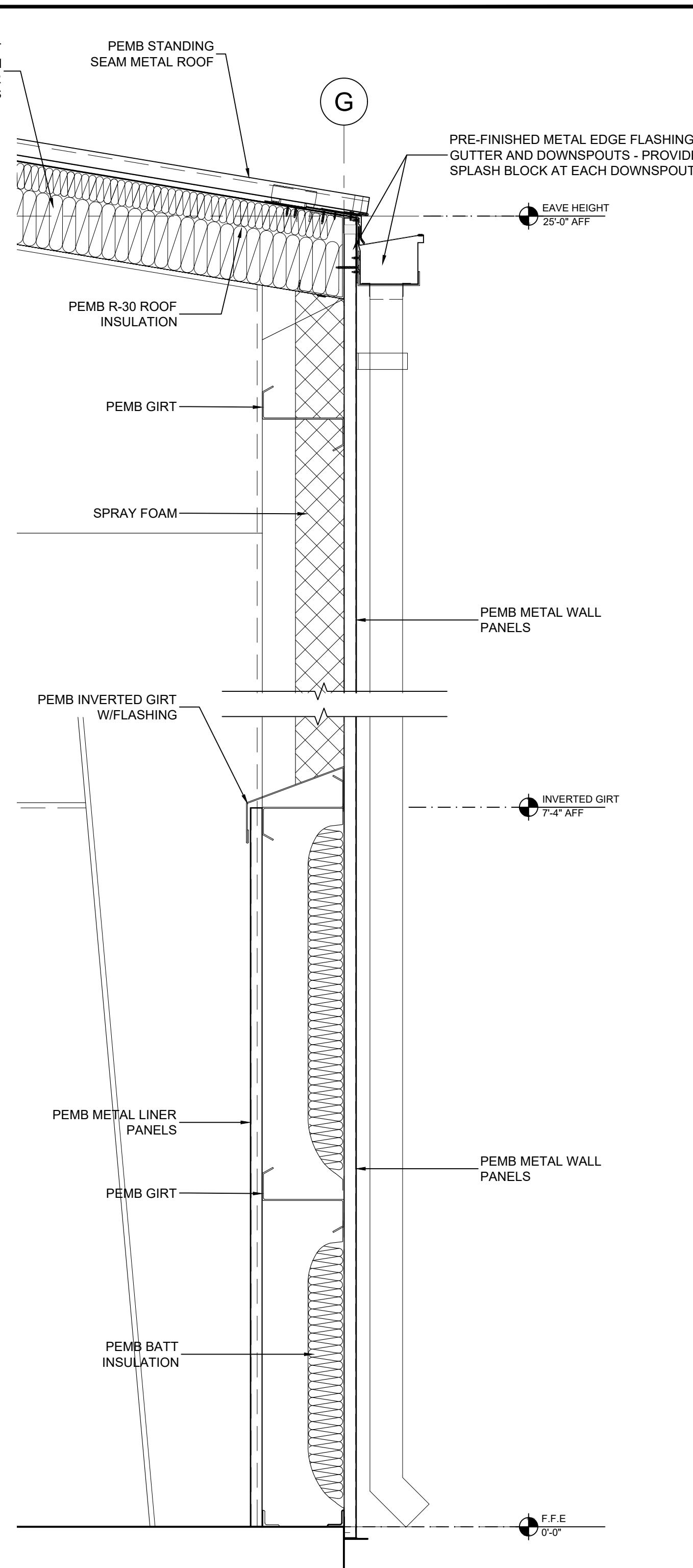
2 WALL SECTION

SCALE: 1"=1'-0"



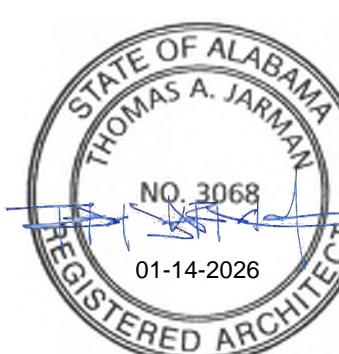
3 WALL SECTION

SCALE: 1"=1'-0"



4 WALL SECTION

SCALE: 1"=1'-0"



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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

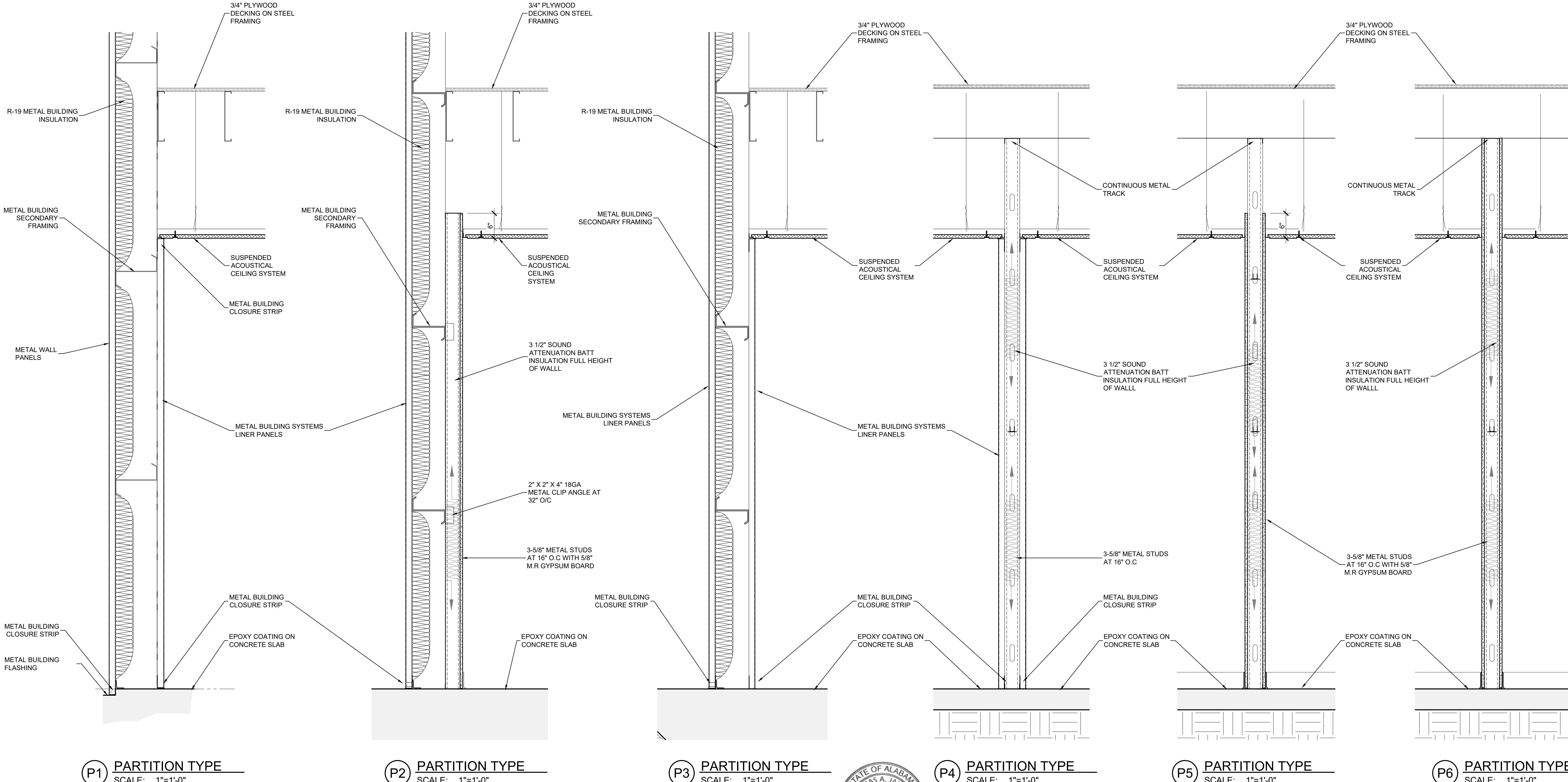
BUILDING WALL SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: A301.0

REV: E

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	B	60% DESIGN REVIEW	DG	SM	SM 06-11-25
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REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D DATE
					DRAWN: DG CK'D: TJ APP'D: TJ DATE: 01-14-26 SCALE: AS NOTED



P1 PARTITION TYPE

SCALE: 1"=1'-0"

P2 PARTITION TYPE

SCALE: 1"=1'-0"

P3 PARTITION TYPE

SCALE: 1"=1'-0"

P4 PARTITION TYPE

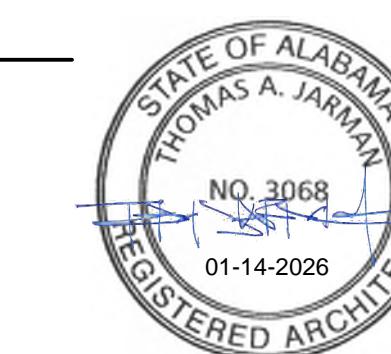
SCALE: 1"=1'-0"

P5 PARTITION TYPE

SCALE: 1"=1'-0"

P6 PARTITION TYPE

SCALE: 1"=1'-0"



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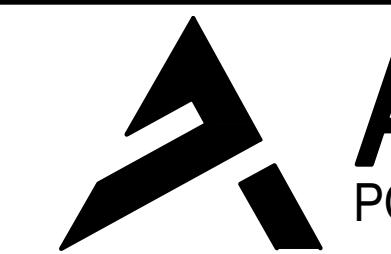
CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

PARTITION TYPES

FOR: ALABAMA PORT AUTHORITY

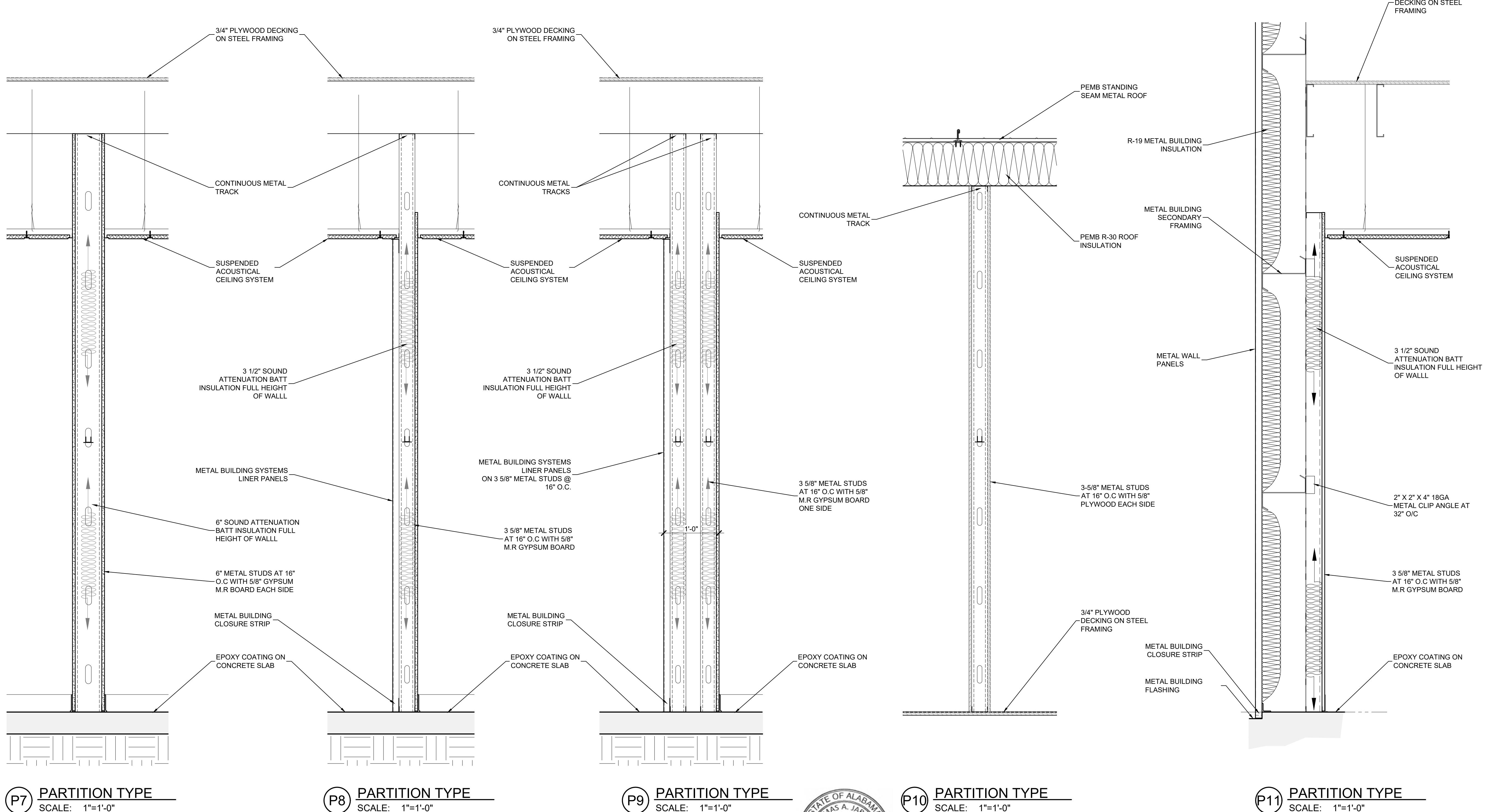


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PROJECT NO: 4617 DWG NO: A400.0 REV: E

NOTES						
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			SCALE: AS NOTED			



P7 PARTITION TYPE

SCALE: 1"-1'-0"

P8 PARTITION TYPE

SCALE: 1"-1'-0"

P9 PARTITION TYPE

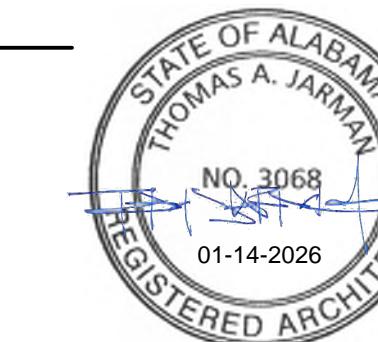
SCALE: 1"-1'-0"

P10 PARTITION TYPE

SCALE: 1"-1'-0"

P11 PARTITION TYPE

SCALE: 1"-1'-0"



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McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
PARTITION TYPES

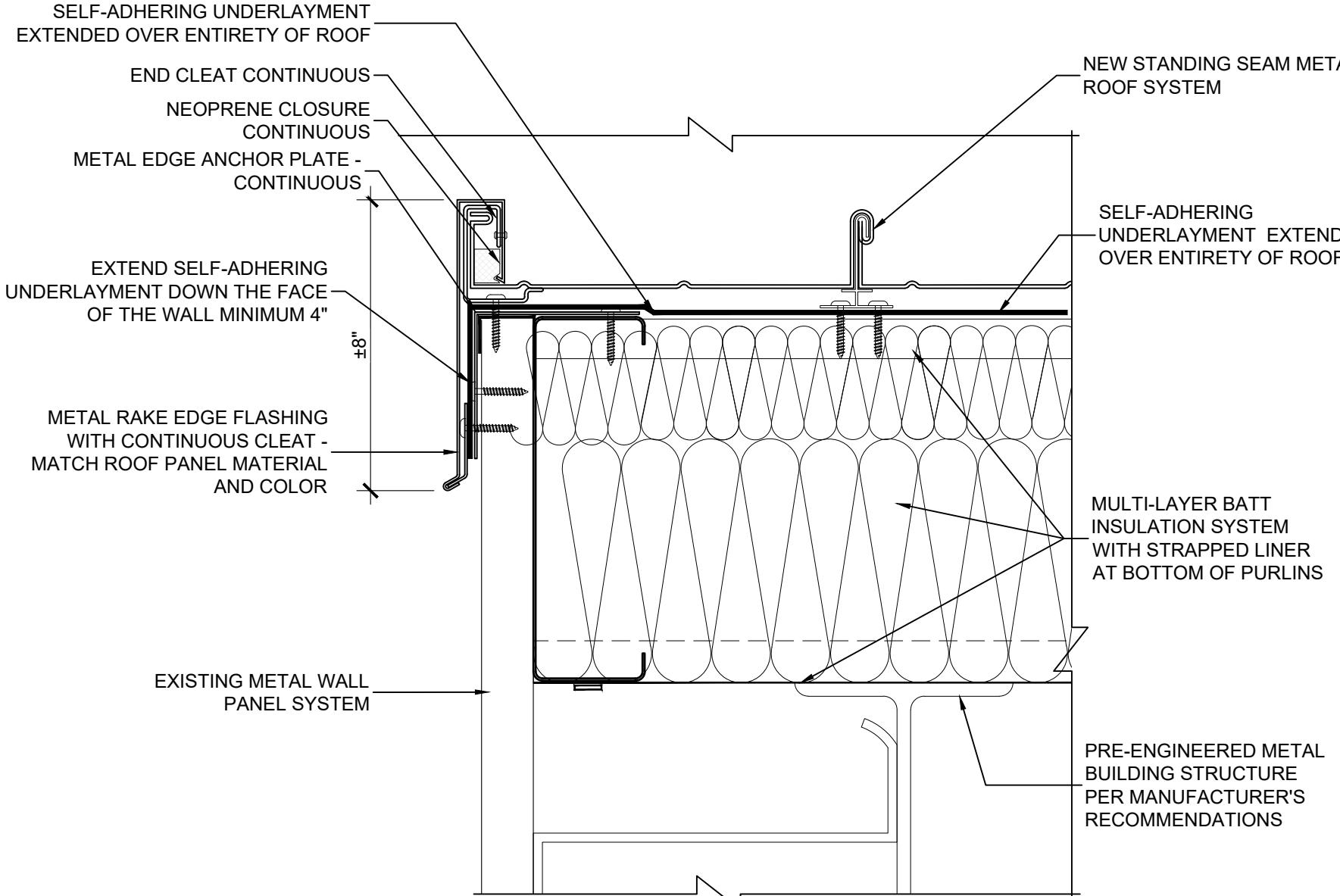
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: A400.1

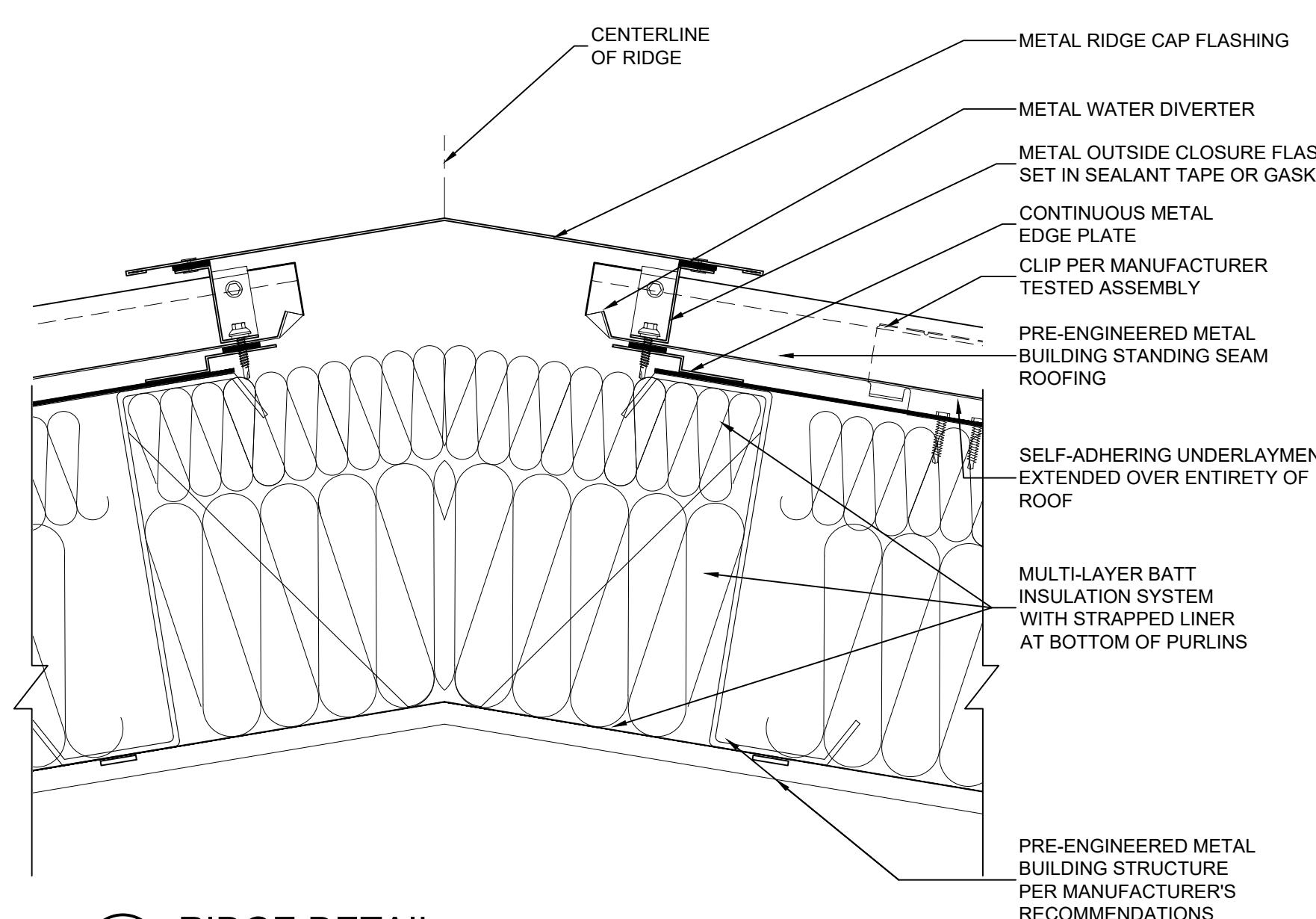
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	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
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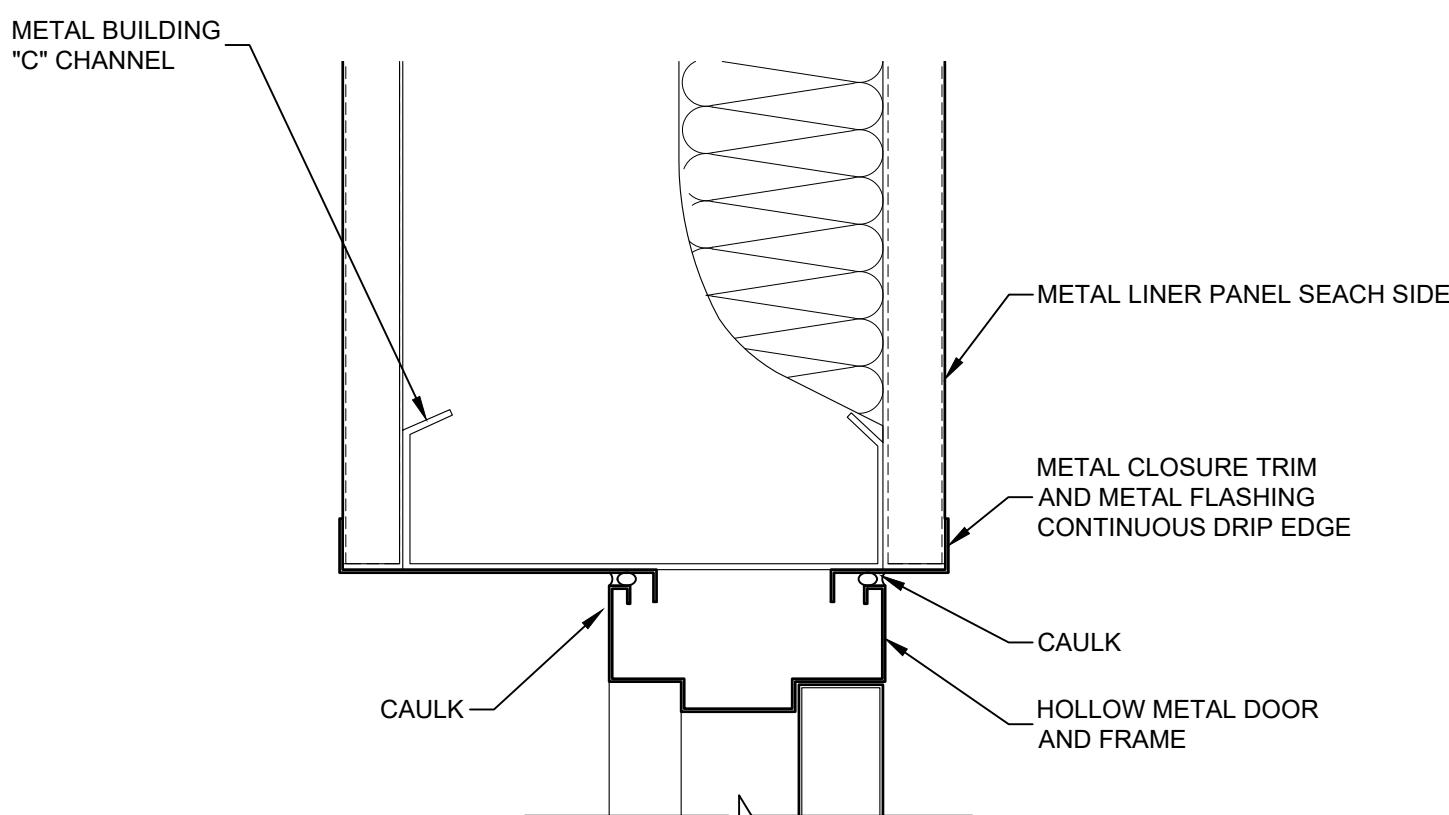




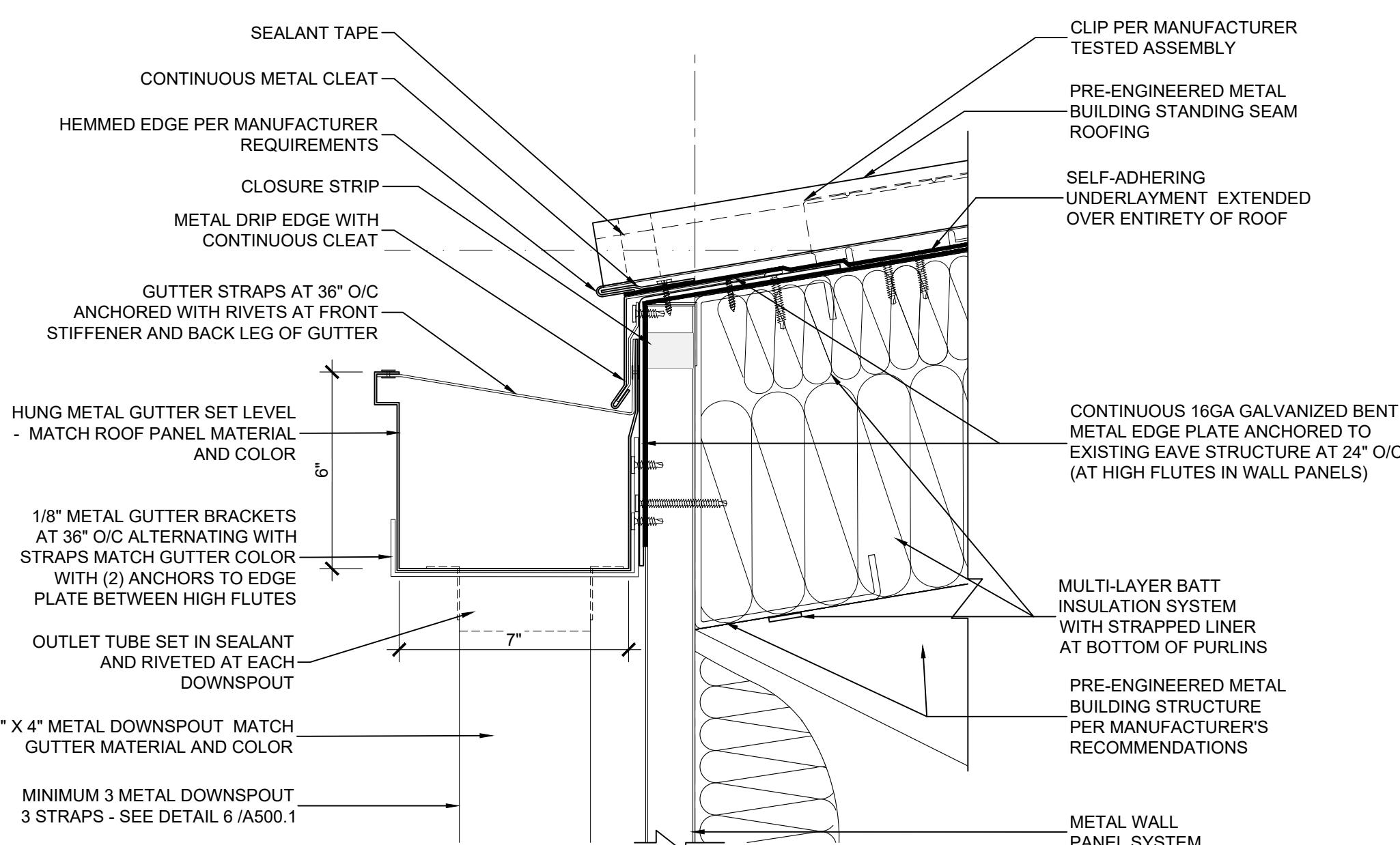
1 RAKE EDGE DETAIL  
SCALE: 3"=1'-0"



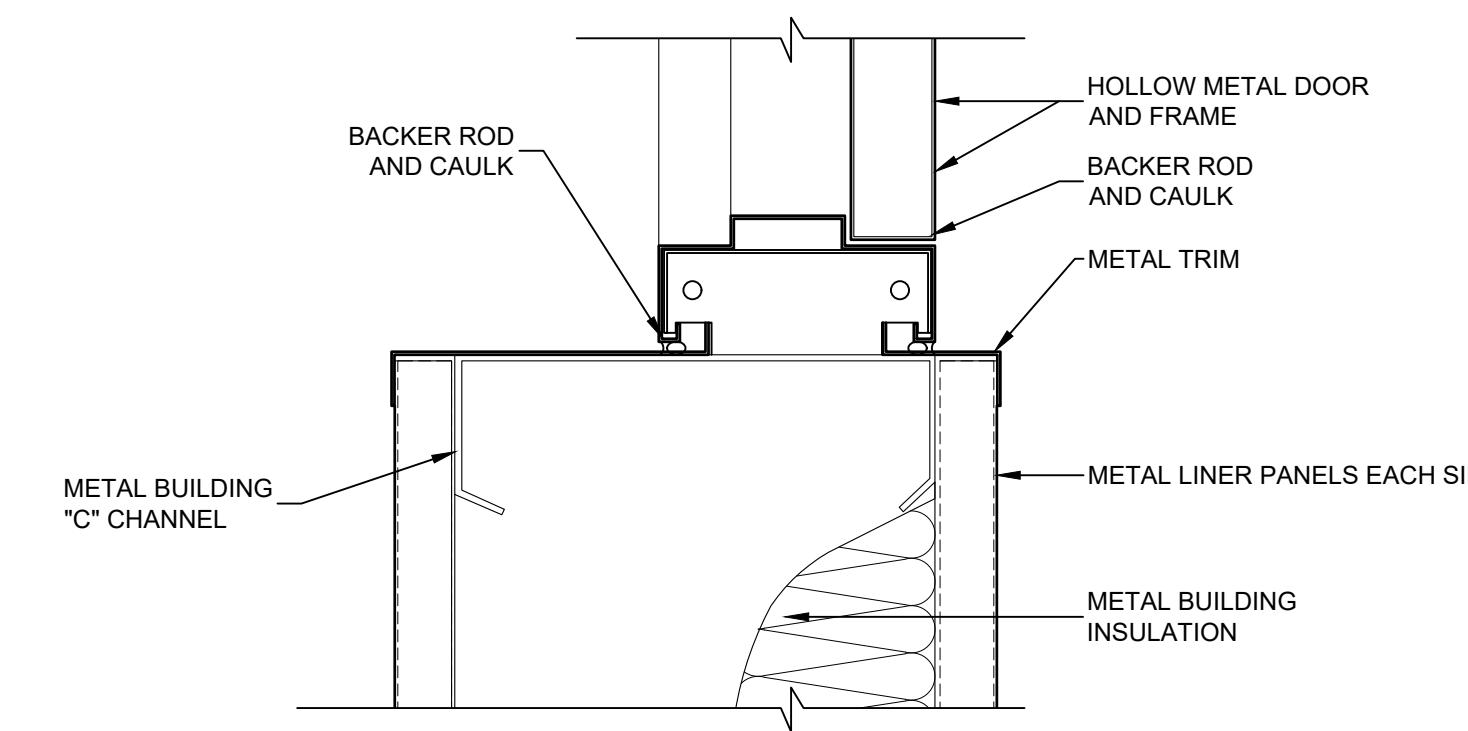
3 RIDGE DETAIL  
SCALE: 3"=1'-0"



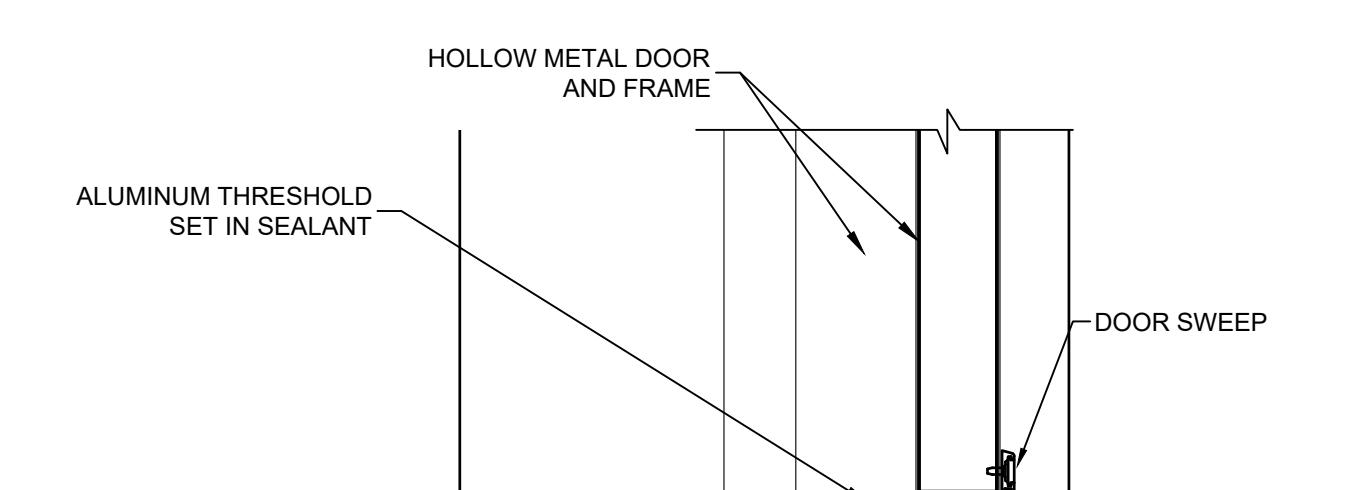
H1 HEAD DETAIL  
SCALE: 3" = 1'-0"



2 EDGE DETAIL  
SCALE: 3"=1'-0"



J1 JAMB DETAIL  
SCALE: 3"=1'-0"



S1 THRESHOLD  
SCALE: 3"=1'-0"



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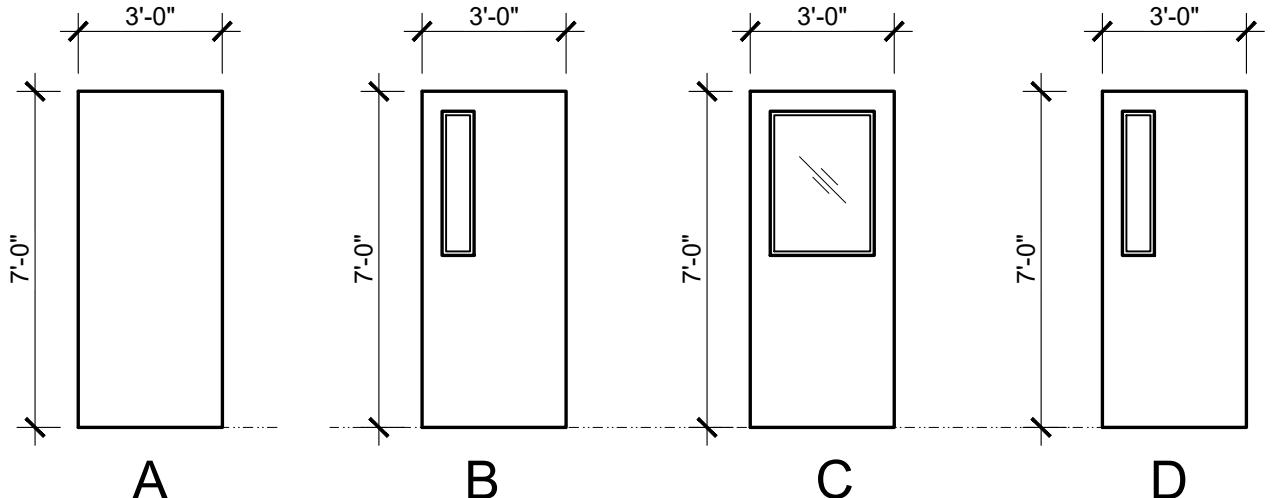


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PORT AUTHORITY  
PORT OF MOBILE

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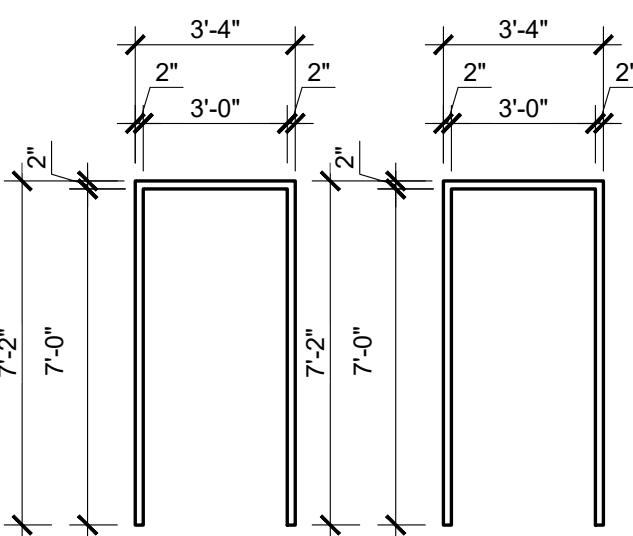
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
DETAILS  
FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4617 DWG NO: A500.1  
REV: E

NOTES						
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	A	30% DESIGN REVIEW		DG	SM	SM 04-11-25
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			SCALE: AS NOTED			



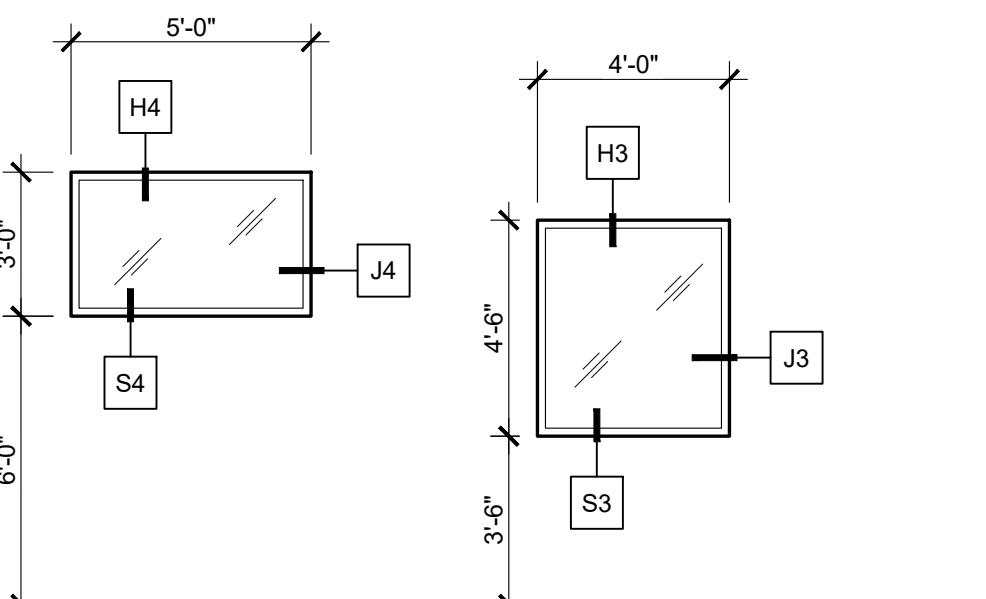
### 1 DOOR TYPES

SCALE: 1/4"=1'-0"



### 2 FRAME TYPES

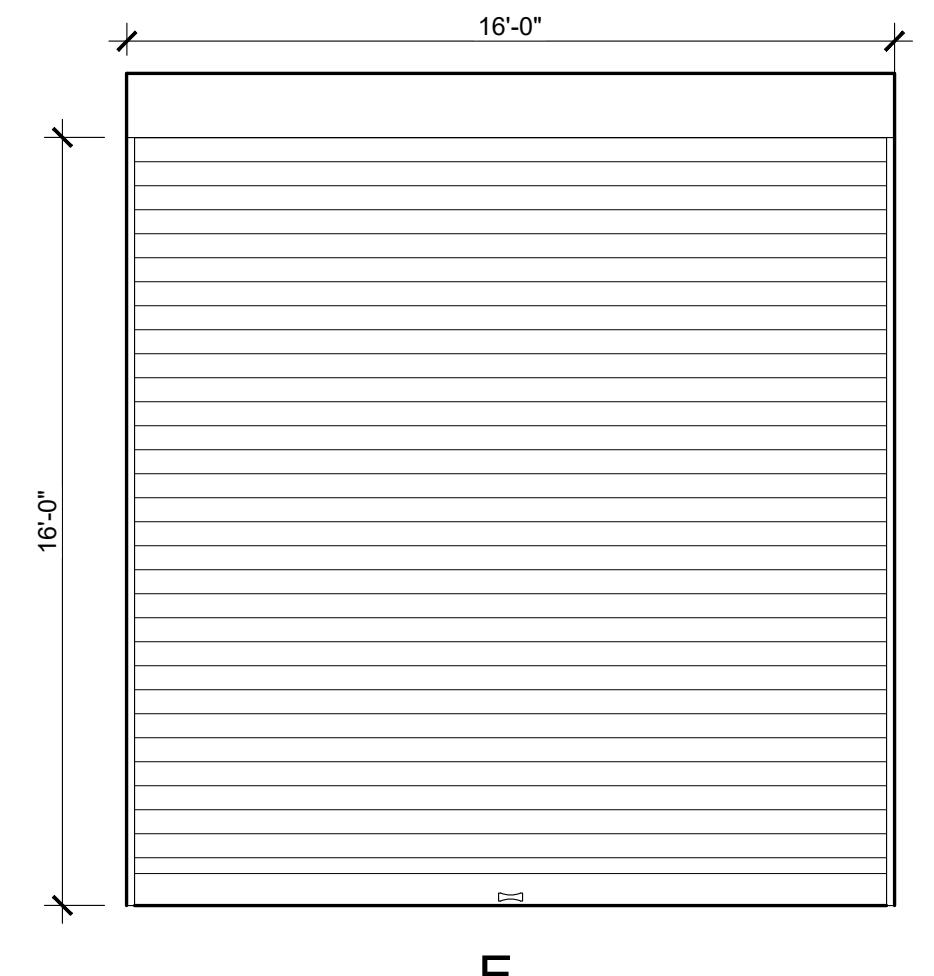
SCALE: 1/4" = 1'-0"



A: EXTERIOR STOREFRONT FRAMING SYSTEM HIGH IMPACT RATED WITH INSULATED, TINTED AND REFLECTIVE GLAZING  
B: INTERIOR STOREFRONT FRAMING SYSTEM - INSULATED, CLEAR GLAZING. INSTALL OPAQUE WINDOW FILM AT MENS 107, ROLLER SHADES AT EXTERIOR WINDOWS

### 3 WINDOW ELEVATIONS

SCALE: 1/4" = 1'-0"



### DOOR SCHEDULE

NO.	LOCATION	DOOR		FRAME			UL. RATING	HDW.	REMARKS
		TYPE	SIZE	TYPE	HEAD	JAMB			
100A	EXTERIOR TO CORRIDOR 100	B	3'-0"x7'-0"x1 3/4"	A	H-2/A500.0	J-2/A500.0	S-2/A500.0	--	HW-1
100B	CORRIDOR 100 TO FABRICATION SHOP-WEST 109	C	3'-0"x7'-0"x1 3/4"	B	H-2/A500.0 SIM	J-2/A500.0 SIM	--	--	HW-3
102	CORRIDOR 100 TO OFFICE 102	D	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	--	HW-2
103	FABRICATION SHOP-WEST 109 TO STORAGE 103	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	--	HW-2
104	FABRICATION SHOP-WEST 109 TO OFFICE 104	D	3'-0"x7'-0"x1 3/4"	B	H-2/A500.0 SIM	J-2/A500.0 SIM	--	--	HW-2
106	CORRIDOR 100 TO WOMEN'S 106	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	--	HW-4
107	FABRICATION SHOP-WEST 109 TO MEN'S 107	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	--	HW-5
108	FABRICATION SHOP-WEST 109 TO BREAKROOM 108	C	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	--	HW-5
109A	EXTERIOR TO FABRICATION SHOP-WEST 109	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
109B	EXTERIOR TO FABRICATION SHOP-WEST 109	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A500.0	S-5/A500.0	--	HW-1
109C	EXTERIOR TO FABRICATION SHOP-WEST 109	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
109D	EXTERIOR TO FABRICATION SHOP-WEST 109	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A500.0	S-5/A500.0	--	HW-1
110A	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
110B	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
110C	EXTERIOR TO FABRICATION SHOP-EAST 110	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A500.0	S-5/A500.0	--	HW-1
110D	COMP CANOPY 111 TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
110E	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"		-	-	--	--	OVERHEAD DOOR
112	CORRIDOR 100 TO SHOWER 112	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	--	HW-4
113	CORRIDOR 100 TO IT 113	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	--	HW-2
201	EXTERIOR TO OPEN SPACE 201	B	3'-0"x7'-0"x1 3/4"	A	H-2/A500.1	J-2/A500.1	S-2/A500.1	--	HW-1
2EP	OPEN SPACE 201 TO PLATFORM EQUIPMENT 2EP	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	--	HW-2

ALL OF THE DOORS IN THE MEANS OF EGRESS REQUIRE PANIC HARDWARE.

### FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS		CEILING		NOTES
				MATERIAL	MATERIAL	MATERIAL	CEILING HT.	
<b>LOWER LEVEL</b>								
100	CORRIDOR	CONC/EPOXY	VINYL	M.R GYP/FRP	ACT-1	9'-0"		
101	COPY	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"		
102	OFFICE	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"		
103	STORAGE	CONC/EPOXY	-	MTL	ACT-1	9'-0"		
104	OFFICE	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"		
105	BREAK	CONC/EPOXY	VINYL	M.R GYP/FRP	ACT-1	9'-0"		
106	WOMEN'S	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"		
107	MENS	CONC/EPOXY	-	MTL	ACT-1	9'-0"		
108	BREAKROOM	CONC/EPOXY	-	MTL	ACT-1	9'-0"		
109	FABRICATION SHOP "WEST"	CONC/SEALED	-	MTL	EXP. STR.	+/- 24'-4" TO 30'-8"		
110	FABRICATION SHOP "EAST"	CONC/SEALED	-	MTL	EXP. STR.	+/- 24'-4" TO 30'-9"		
111	COMPRESSOR CANOPY	CONC/SEALED	-	MTL	EXP. STR.	+/- 19'-9" TO 23'-0"		
112	SHOWER	CONC/EPOXY	INTEGRAL W/FRP	M.R GYP/FRP	ACT-2	9'-0"		
113	IT	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"		
201	OPEN SPACE	PLYWOOD	-	MTL	EXP. STR.	+/- 8'-7" TO 12'-1"		
2EP	PLATFORM EQUIPMENT	PLYWOOD	-	MTL	EXP. STR.	+/- 10'-8" TO 12'-1"		

### HARDWARE SCHEDULE

PROVIDE WALL BUMPERS WHERE NECESSARY

#### HW-1

- (1) CONTINUOUS HINGE
- (1) MORTISE LOCKSET, LEVER HANDLE, ENTRY FUNCTION
- (1) RIM EXIT DEVICE
- (1) SURFACE CLOSER
- (1) KICKPLATE
- (1) THRESHOLD
- (1) WEATHERSTRIPPING
- (1) RAIN GUARD
- (3) SILENCERS

#### HW-2

- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, OFFICE FUNCTION
- (3) SILENCERS
- (1) THRESHOLD @ DOORS 103 & 104
- (1) WEATHERSTRIPPING @ DOORS 103 & 104

#### HW-3

- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, PASSAGE FUNCTION
- (1) SURFACE CLOSER
- (1) KICKPLATE
- (1) MOP PLATE
- (3) SILENCERS
- (1) THRESHOLD
- (1) WEATHERSTRIPPING

#### HW-4

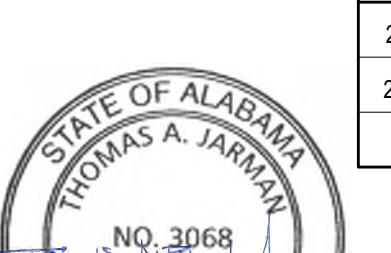
- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, PRIVACY FUNCTION WITH OUTSIDE INDICATOR
- (1) KICKPLATE
- (1) SURFACE CLOSER
- (3) SILENCERS

#### HW-5

- (1 1/2 PR) HINGES
- (1) PUSH PLATE 8" X 16"
- (1) PULL PLATE 8" X 16"
- (1) SURFACE CLOSER
- (1) KICK PLATE
- (1) MOP PLATE
- (3) SILENCERS
- (1) THRESHOLD
- (1) WEATHERSTRIPPING

### FINISH SCHEDULE LEGEND

FLOOR	CONC/SEALED CONCRETE- CLEAR SEALER COMPATIBLE WITH CURING COMPOUND
CONC/EPOXY	CONC/EPOXY - CONCRETE WITH HIGH-PERFORMANCE EPOXY COATING
PLYWOOD	PLYWOOD - NO FINISH
BASE	VINYL - 4" VINYL WALL COVE BASE, JOHNSONITE COLOR 28 MEDIUM GRAY.
INT	INT- INTEGRAL WITH FLOOR AND WALL
WALL	GYP - PAINTED GYPSUM WALLBOARD
M.R GYP	M.R GYP - MOISTURE RESISTANT GYPSUM WALLBOARD PAINTED ON METAL STUD
MTL	MTL - PRE-FINISHED METAL LINER PANELS
FRP	FRB - FIBERGLASS REINFORCED PANELS
CEILING	ACT - 1 - HIGH NRC ACOUSTICAL CEILING TILE
ACT - 2	ACT - 2 CERAMIC ACOUSTICAL CEILING TILE SYSTEM
STR.	STR. - EXPOSED STRUCTURE - METAL BLDG FRAMING MANF. GREY PRIMER
OTHER FINISHES	H.M. DOOR FRAMES - SPRAYED FINISH. COLOR SW7068 GRIZZLE GRAY SEMI-GLOSS
	H.M. DOORS - SPRAYED FINISH, COLOR SW2850 CHESLA GRAY, SEMI-GLOSS
	SOLID SURFACE WINDOW SILLS - CORIAN SORRELL
	PLASTIC LAMINATE CABINET FRONTS @ BREAKROOM WILSONART CITADEL WARP 5882
	PLASTIC LAMINATE COUNTERTOP - WILSONART RIVER ROCK MOSAIC 656
	TOILET PARTITION - GENERAL PARTITIONS 602 GLACIER GREY
	MECHO SHADE ROLLER SHADE GRAPHITE 6461
	ALUMINUM WINDOWS - # 29 BLACK
	METAL LOCKERS - BLUE
	FRP WALL PANELS P100 WHITE
	METAL CANOPIES - SNOW WHITE
	METAL WALL PANELS, GUTTERS AND DOWNSPOUTS - SLATE GRAY
	METAL ROOF PANELS - GALVALUME
	OVERHEAD COILING DOOR - SPECTRASHIELD POWDER COAT ULTRA RAL 7005



NO. 3068

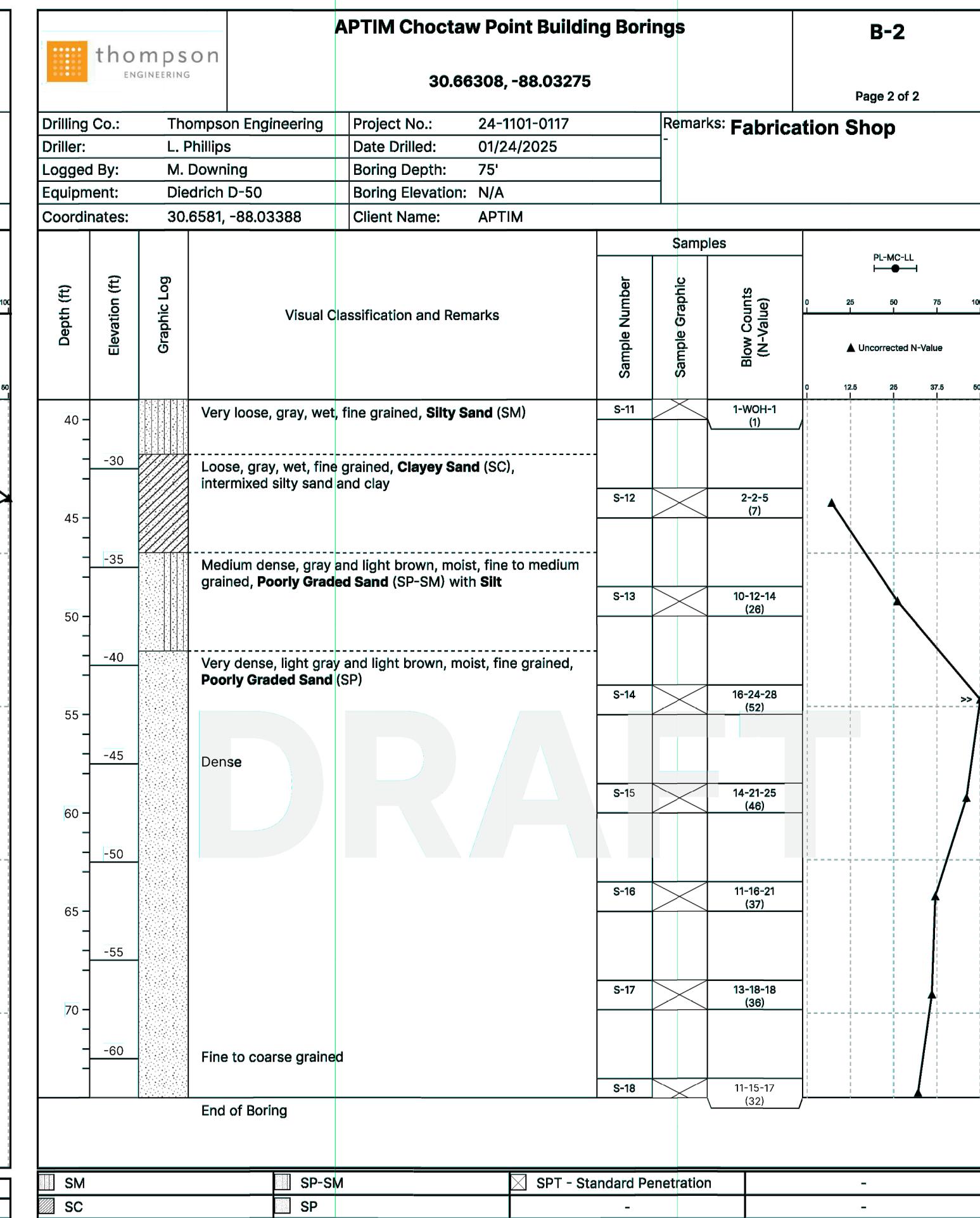
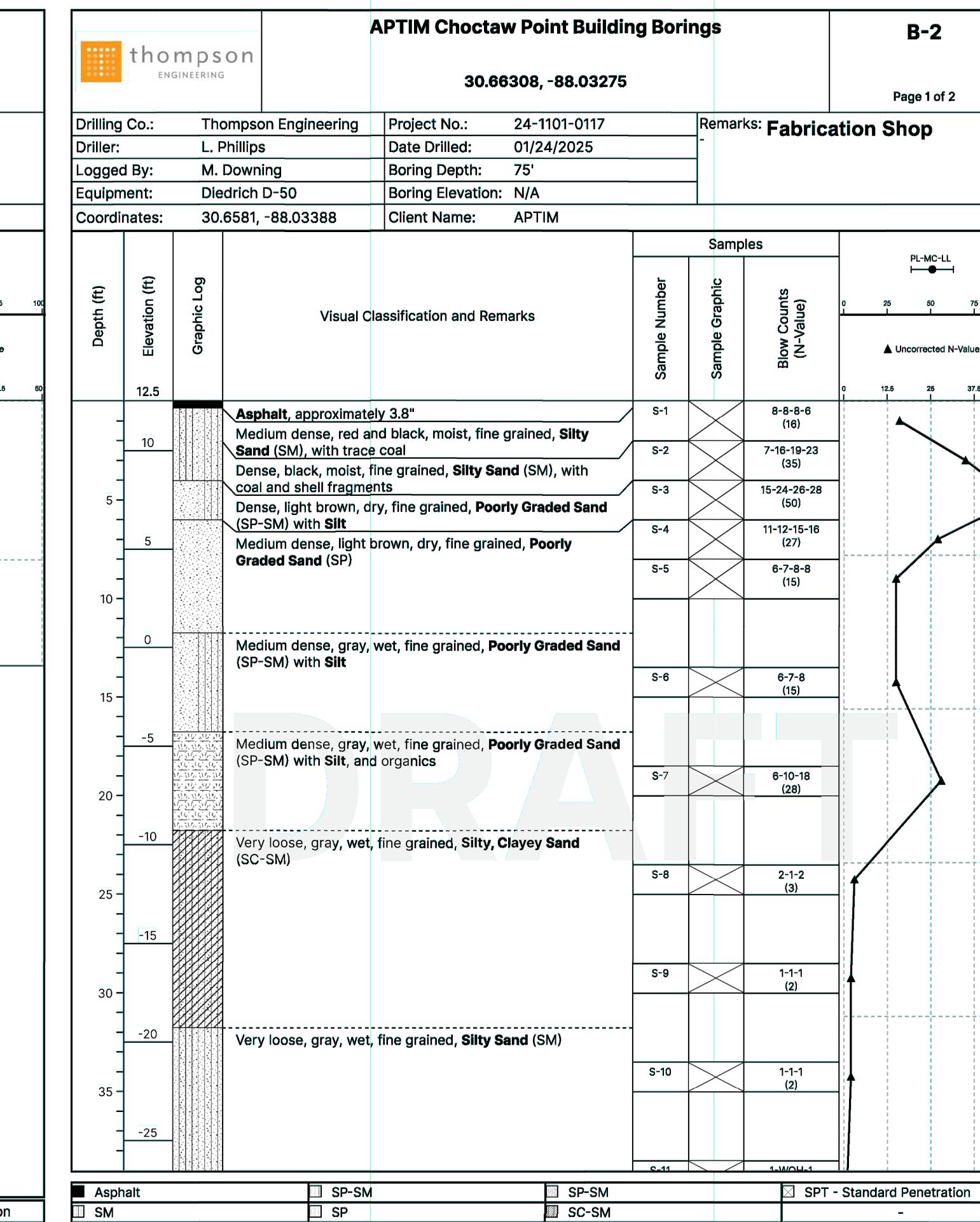
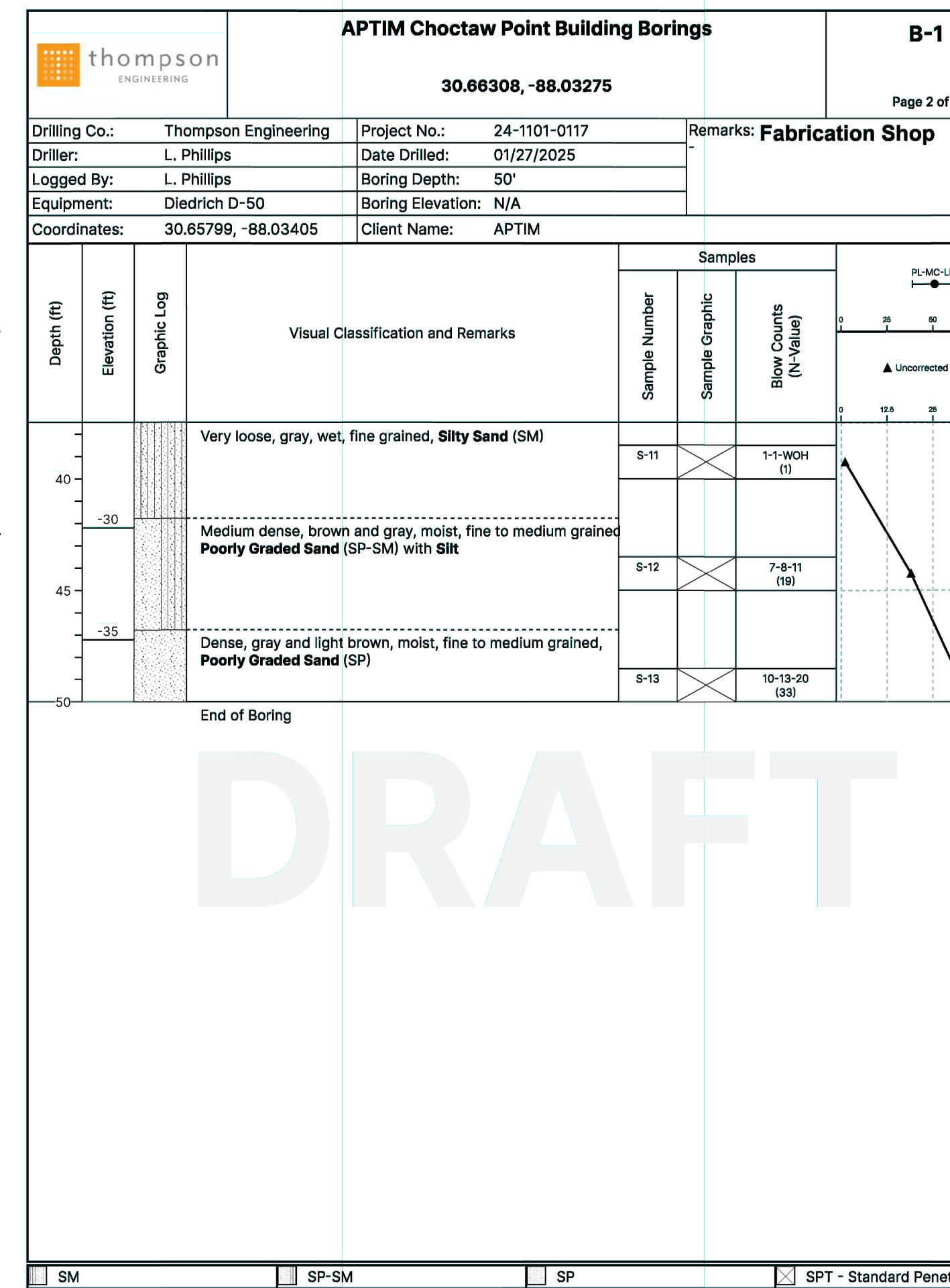
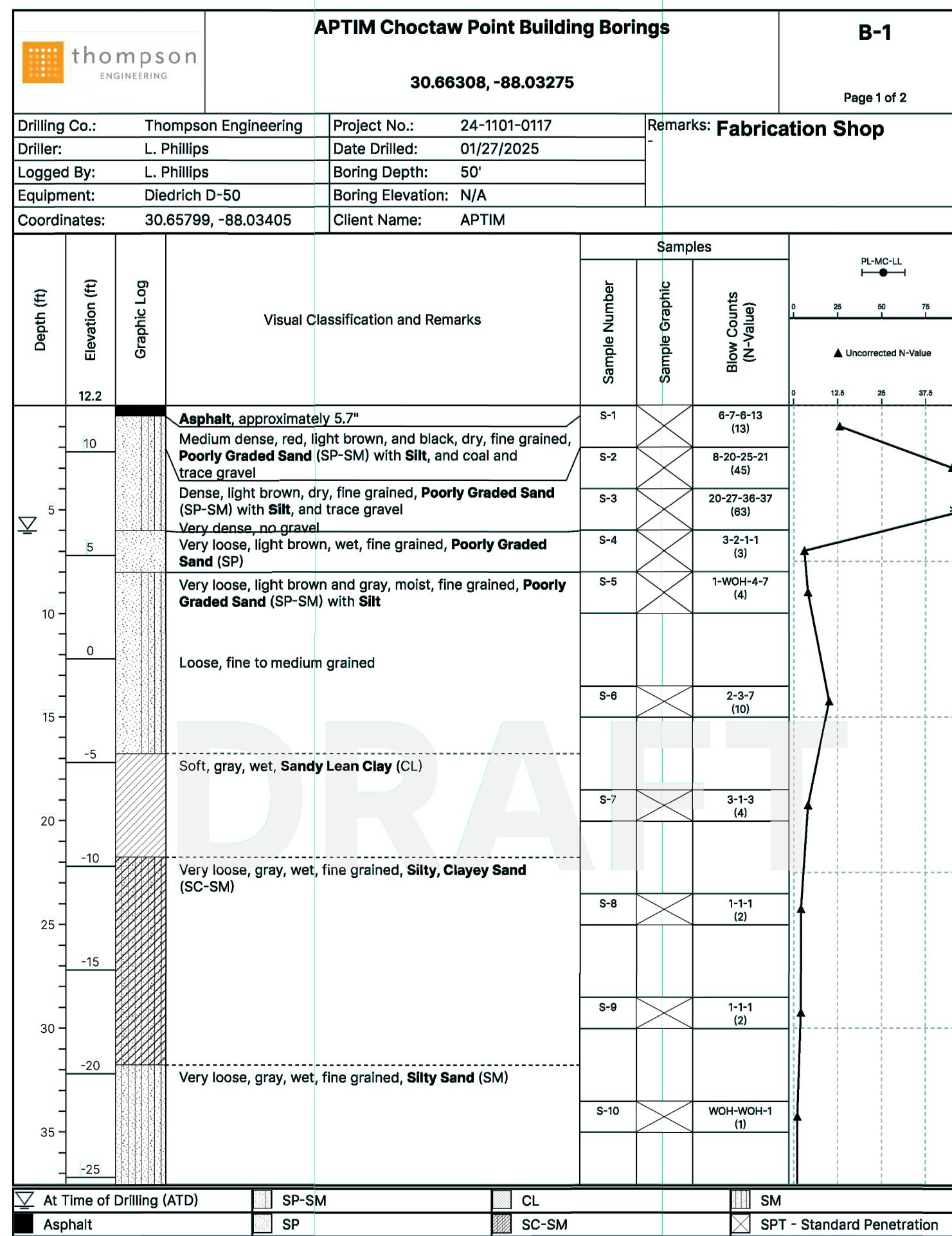
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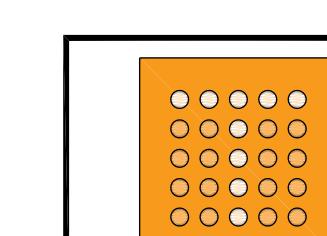
CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
DO





NOTES	
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D	100% DESIGN REVIEW
C	95% DESIGN REVIEW
B	60% DESIGN REVIEW
A	30% DESIGN REVIEW
REFERENCE DRAWINGS	
NO.	REVISION
DRAWN	CK'D
APPD	DATE
DRAWN: JLH	CK'D: JEJ
APPD: RSG	DATE: 01-03-25
SCALE: NONE	



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PROJECT NO: 4617 DWG NO: CV2 REV: E

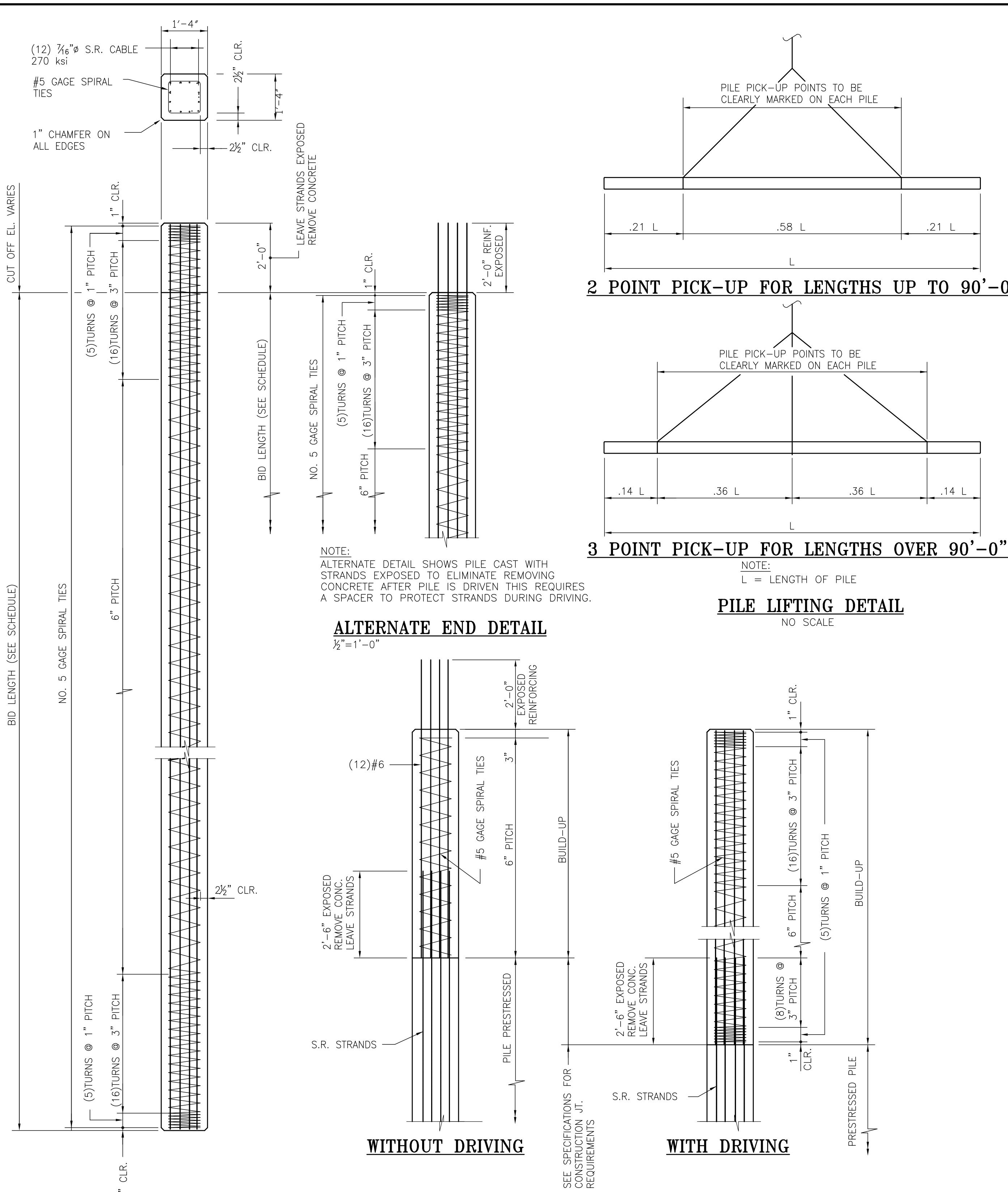


**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
SOIL BORING LOGS 1 OF 1

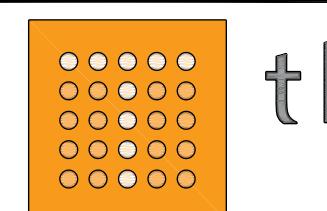
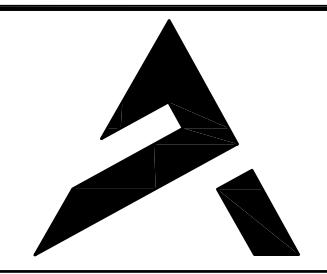
FOR: ALABAMA PORT AUTHORITY



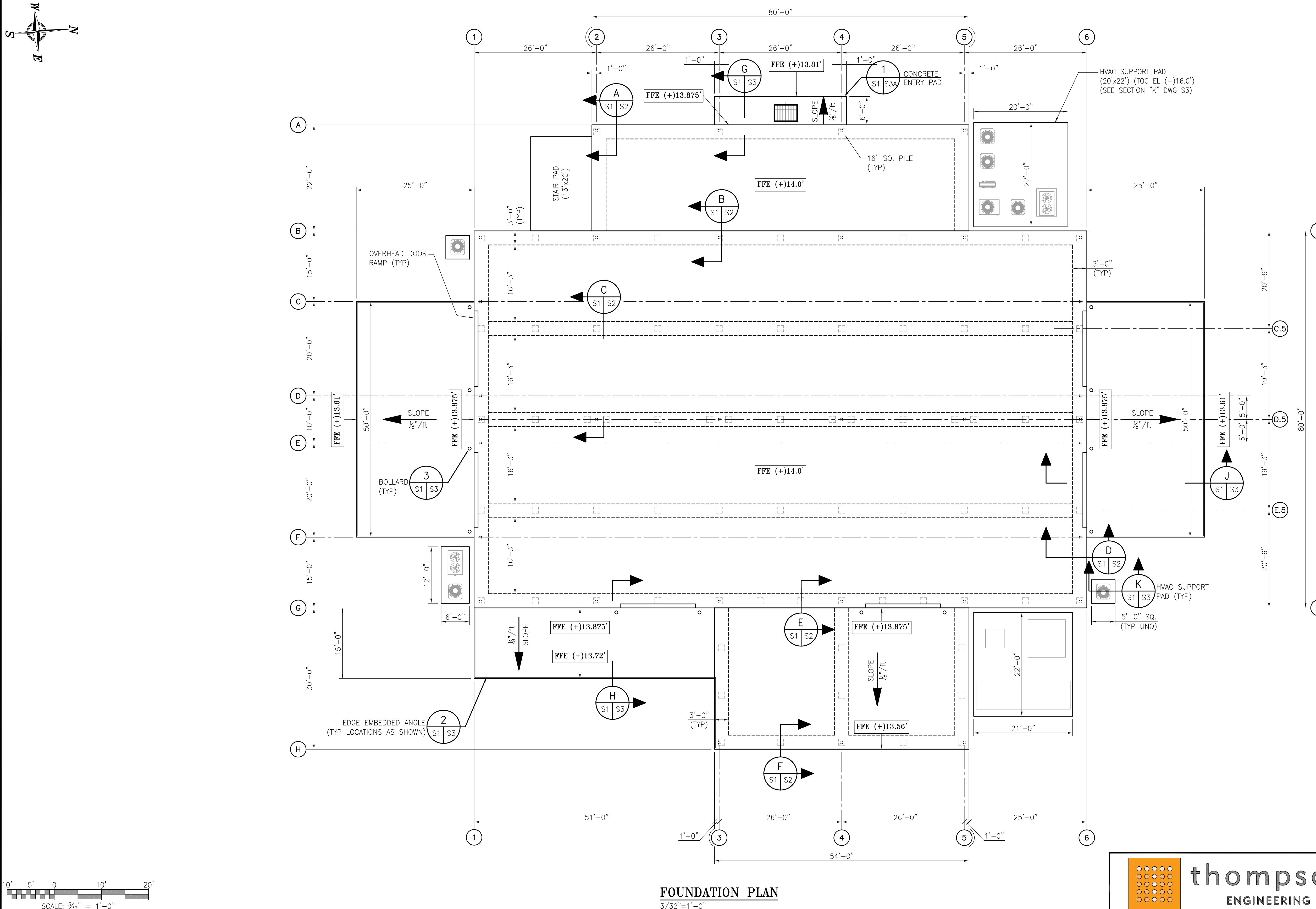
PRESTRESSED CONCRETE PILE SCHEDULE								
PILE NUMBERS	PILE SIZE	APPROXIMATE TIP ELEVATION (FEET)	PILE CUT-OFF ELEVATION (FEET)	BID LENGTH (FEET)	MINIMUM REQ'D LENGTH OF STRAND EXPOSURE BEYOND CUT-OFF ELEVATION (FEET)	CAPACITY (T)	NUMBER OF FILES	TOTAL BID LENGTH (FEET)
P1 THRU P65	16" SQ.	(-)38.00'	(+)12.00'	50	2.00		65	3,250
P66 THRU P68	16" SQ.	(-)38.22'	(+)11.78'	50	2.00		3	150
P69 THRU P71	16" SQ.	(-)38.33'	(+)11.67'	50	2.00		3	150
P72 THRU P76	16" SQ.	(-)38.44'	(+)11.56'	50	2.00		5	250
						TOTALS:	76	3,800

#### CONCRETE PILE NOTES

- PRESTRESSED PILES & PILE BUILD-UPS SHALL CONFORM TO THE REQUIREMENTS OF THE JOINT COMMITTEE OF ASHTO AND PCI FOR PRESTRESSED CONCRETE PILES UNLESS OTHERWISE NOTED OR SPECIFIED.
- CONCRETE FOR PRESTRESSED PILES & PILE BUILD-UPS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI IN 28 DAYS.
- PRESTRESSING REINFORCEMENT SHALL CONFORM TO ASTM A416.
- REINFORCING FOR PILE BUILD-UPS SHALL CONFORM TO ASTM A615 GRADE 60.

 <b>thompson</b> ENGINEERING	 <b>ALABAMA</b> PORT AUTHORITY PORT OF MOBILE	CLIENT DWG NO:	McDUFFIE TERMINAL IMPROVEMENTS	
			NEW FABRICATION SHOP PACKAGE	
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		FOR: ALABAMA PORT AUTHORITY		
PROJECT NO: 4617	DWG NO: CV3	REV: E		





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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

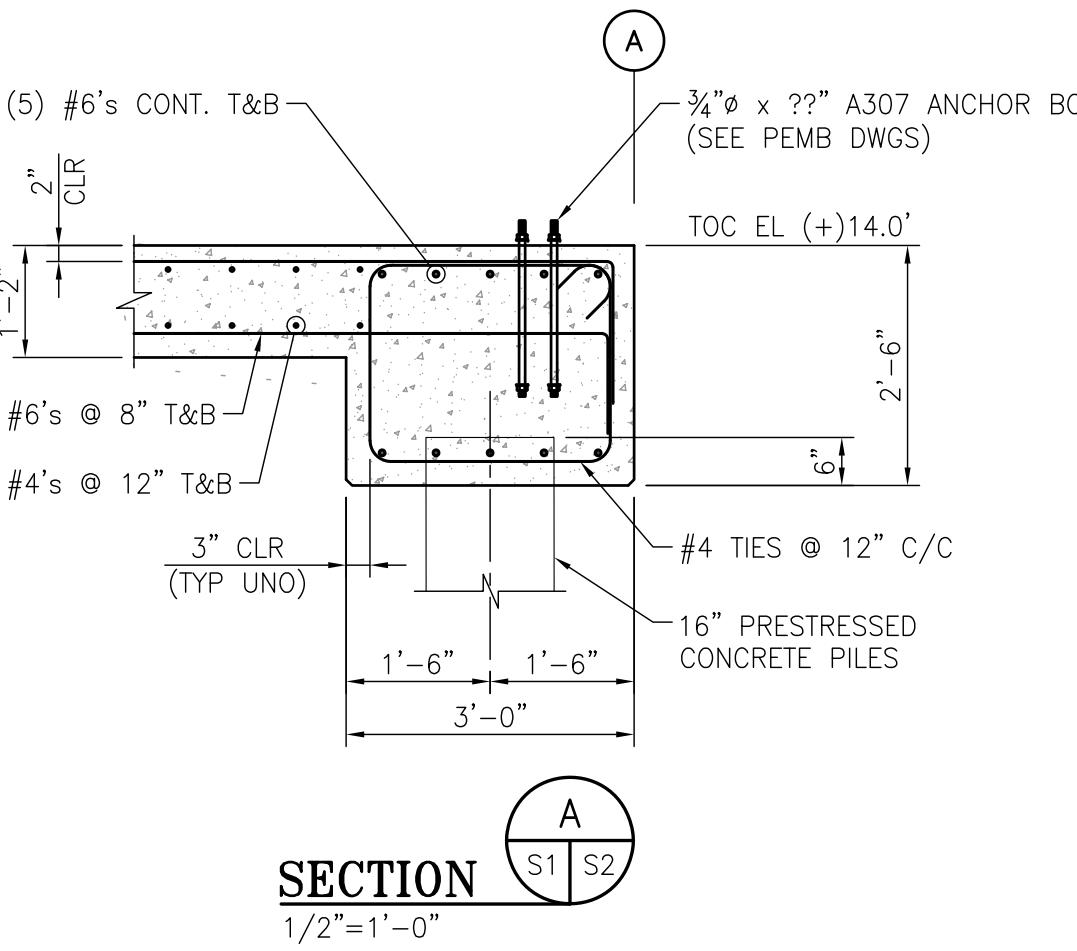
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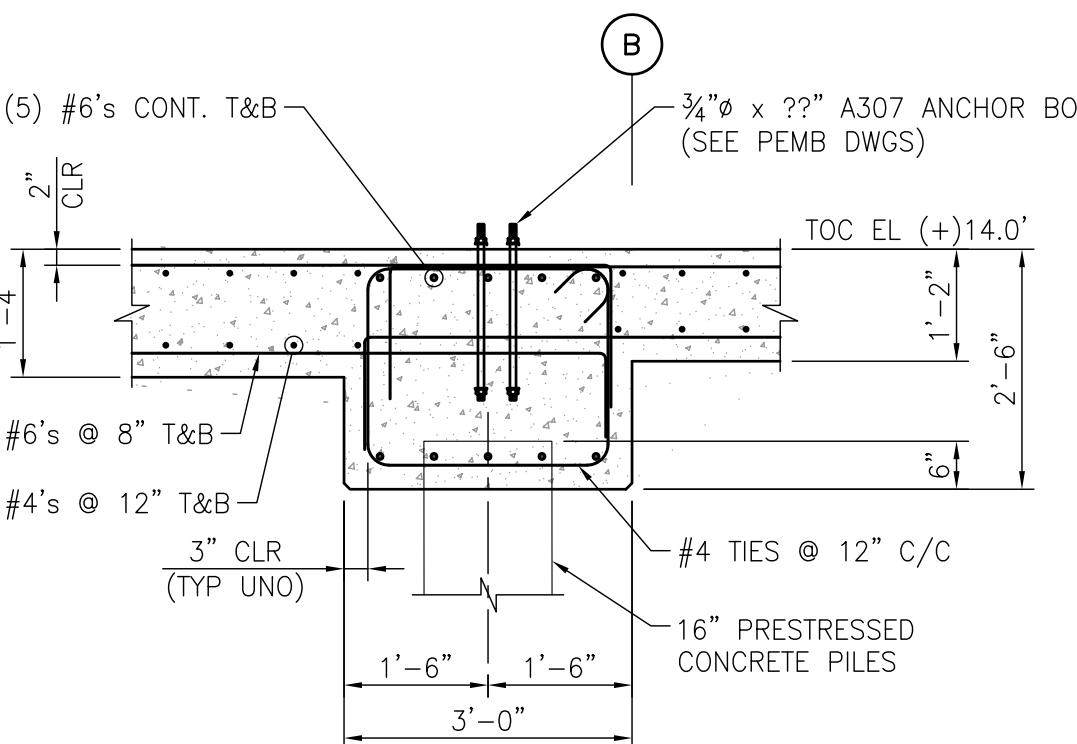
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
FOUNDATION PLAN

FOR: ALABAMA PORT AUTHORITY

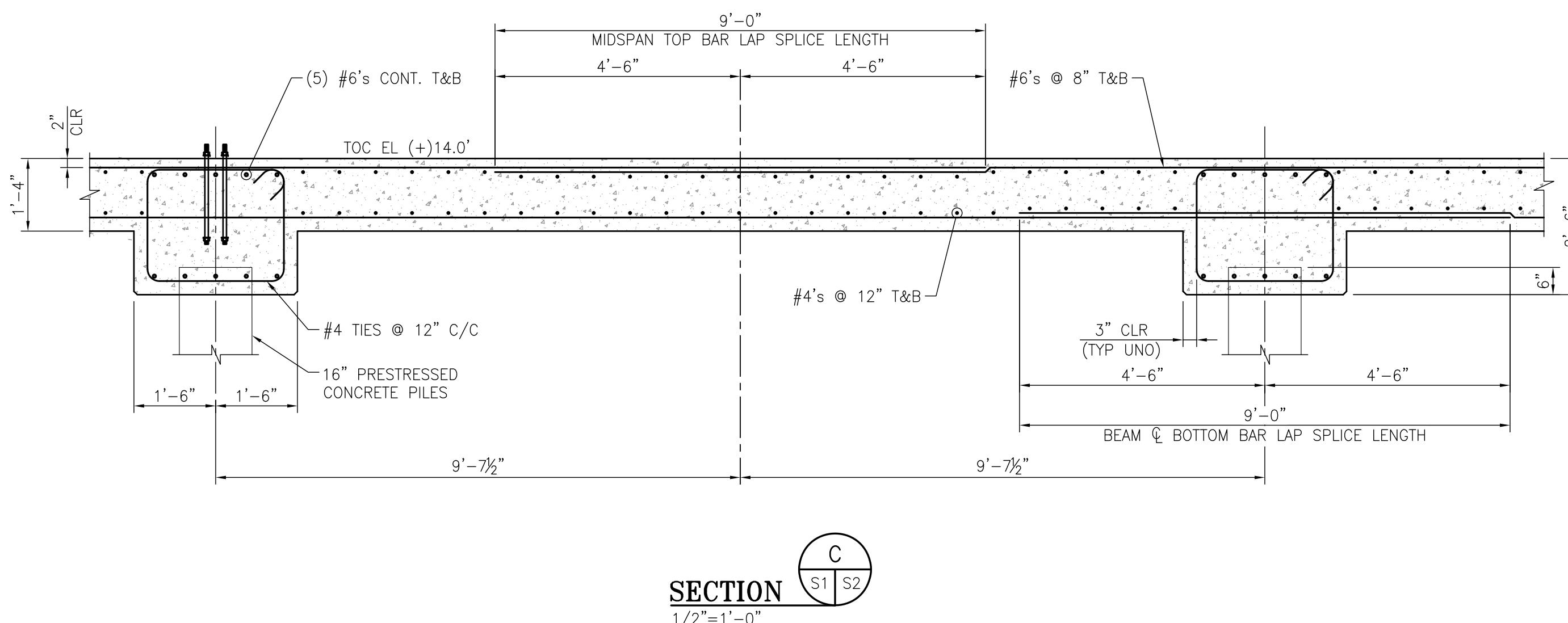
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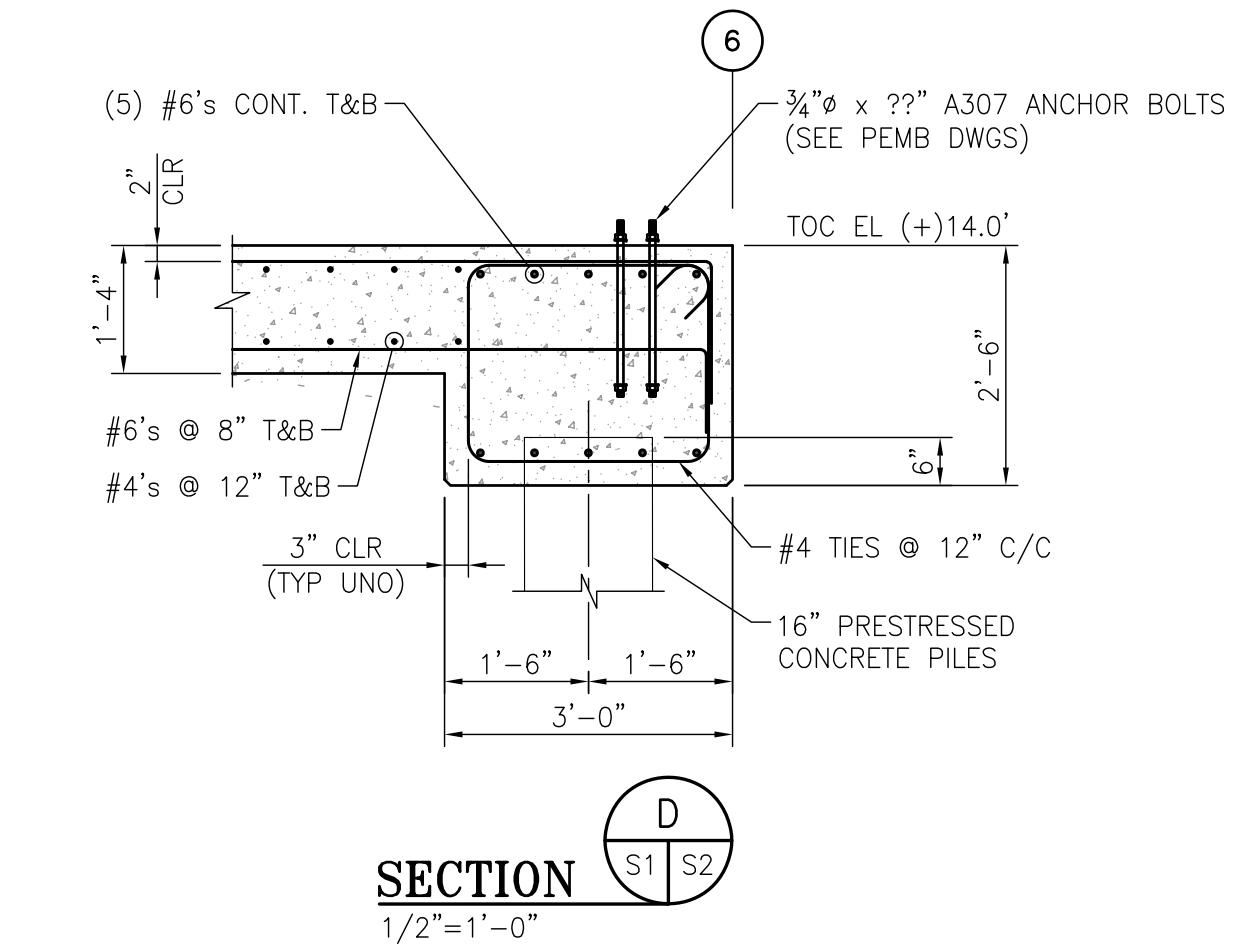
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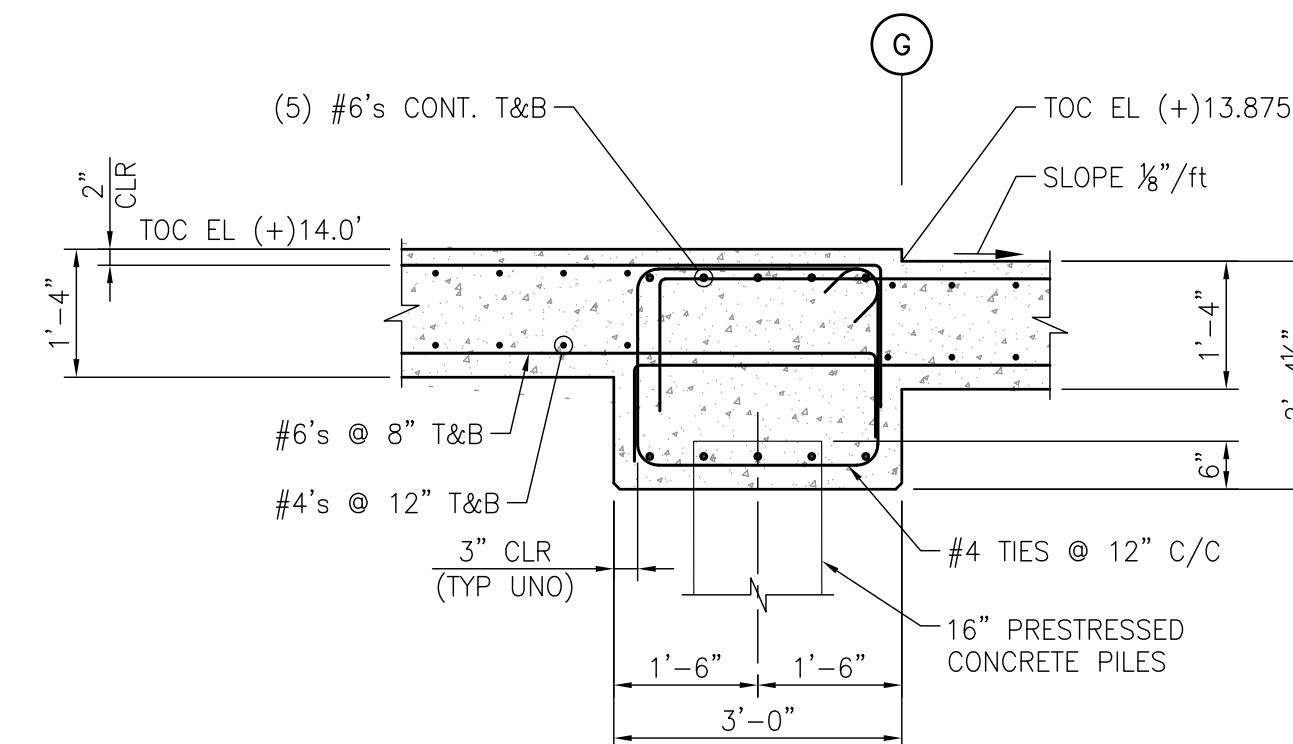
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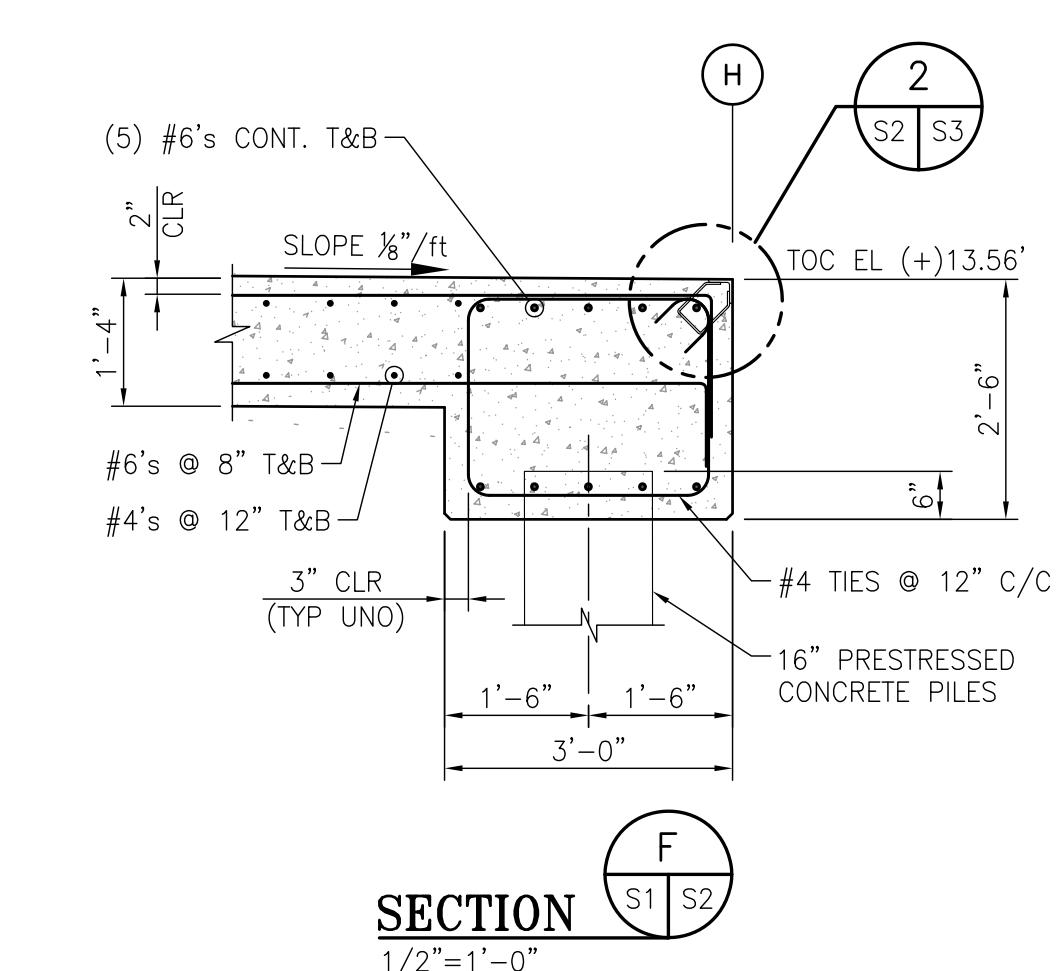
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1/2"=1'-0"



**SECTION** S1 S2  
1/2"=1'-0"



**SECTION** S1 S2  
1/2"=1'-0"



**SECTION** S1 S2  
1/2"=1'-0"

2' 1' 0 2' 4'  
SCALE: 1/2" = 1'-0"

NOTES

	E	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	D	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	C	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	B	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	A	30% DESIGN REVIEW	JLH	JEJ	RSG	04-11-25
	REFERENCE DRAWINGS		NO.	REVISION		DRAWN CK'D APPD DATE DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 03-05-25 SCALE: AS NOTED

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PORT OF MOBILE

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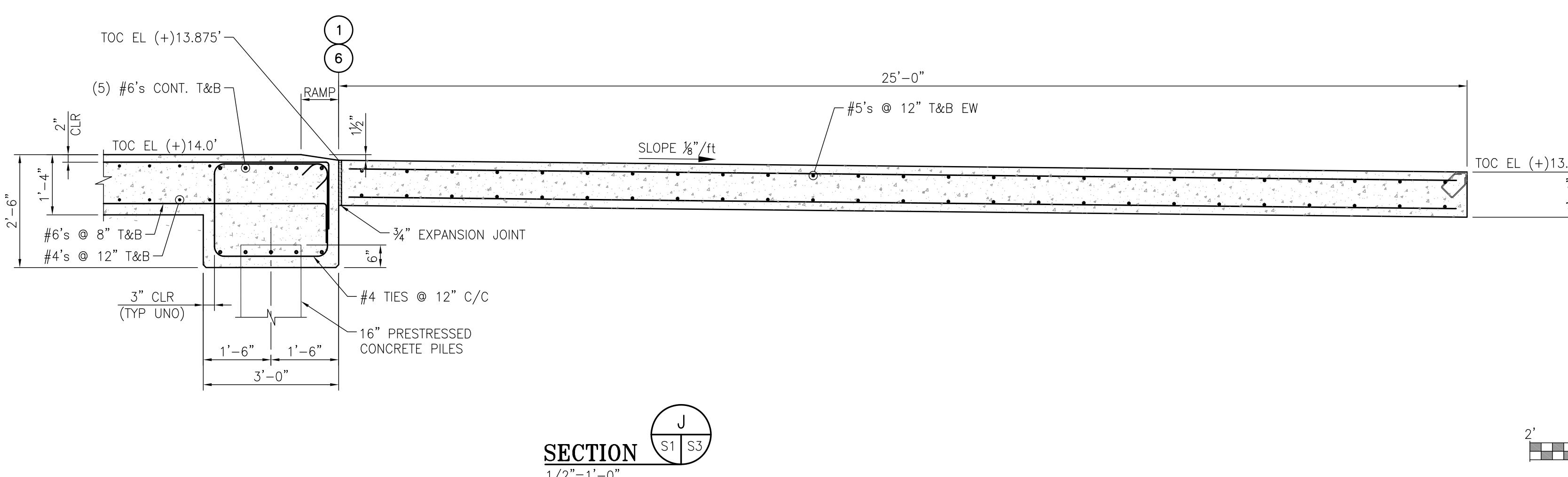
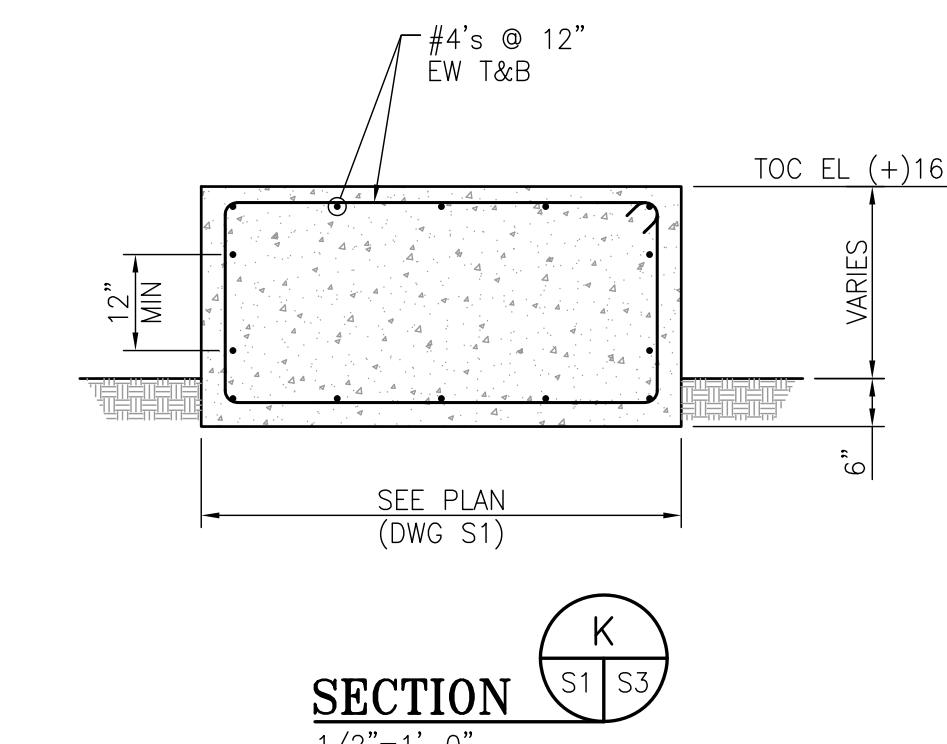
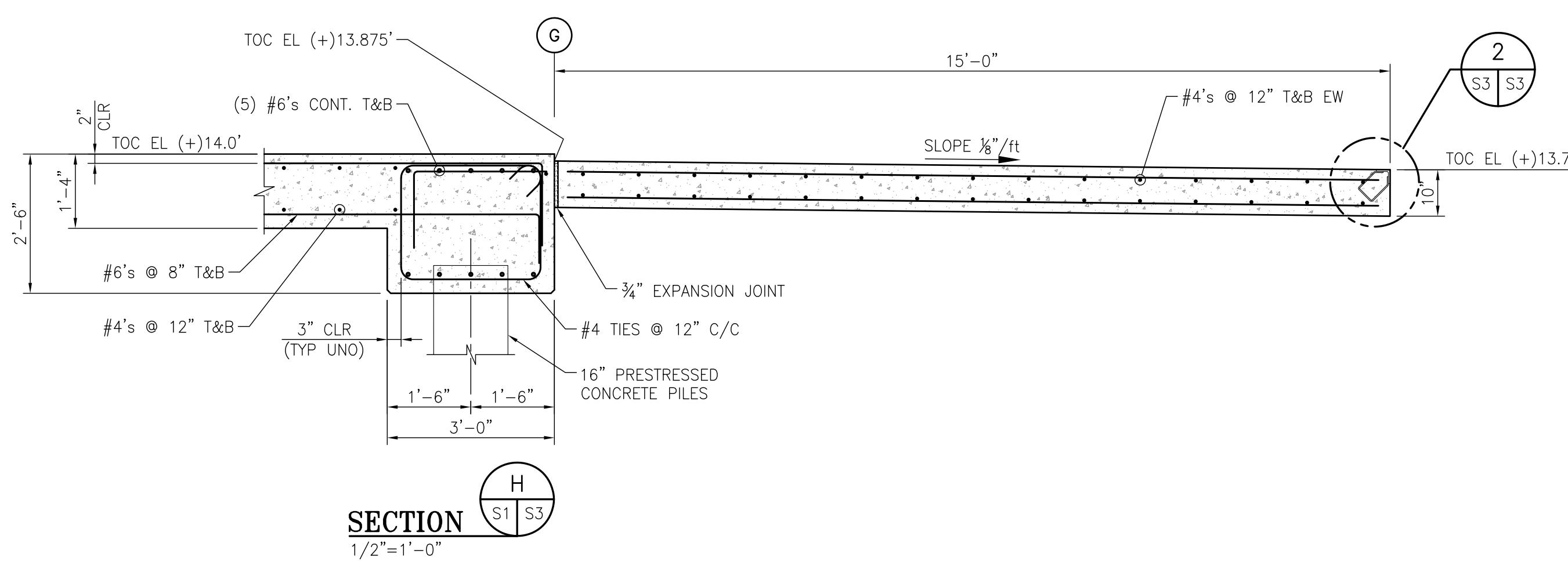
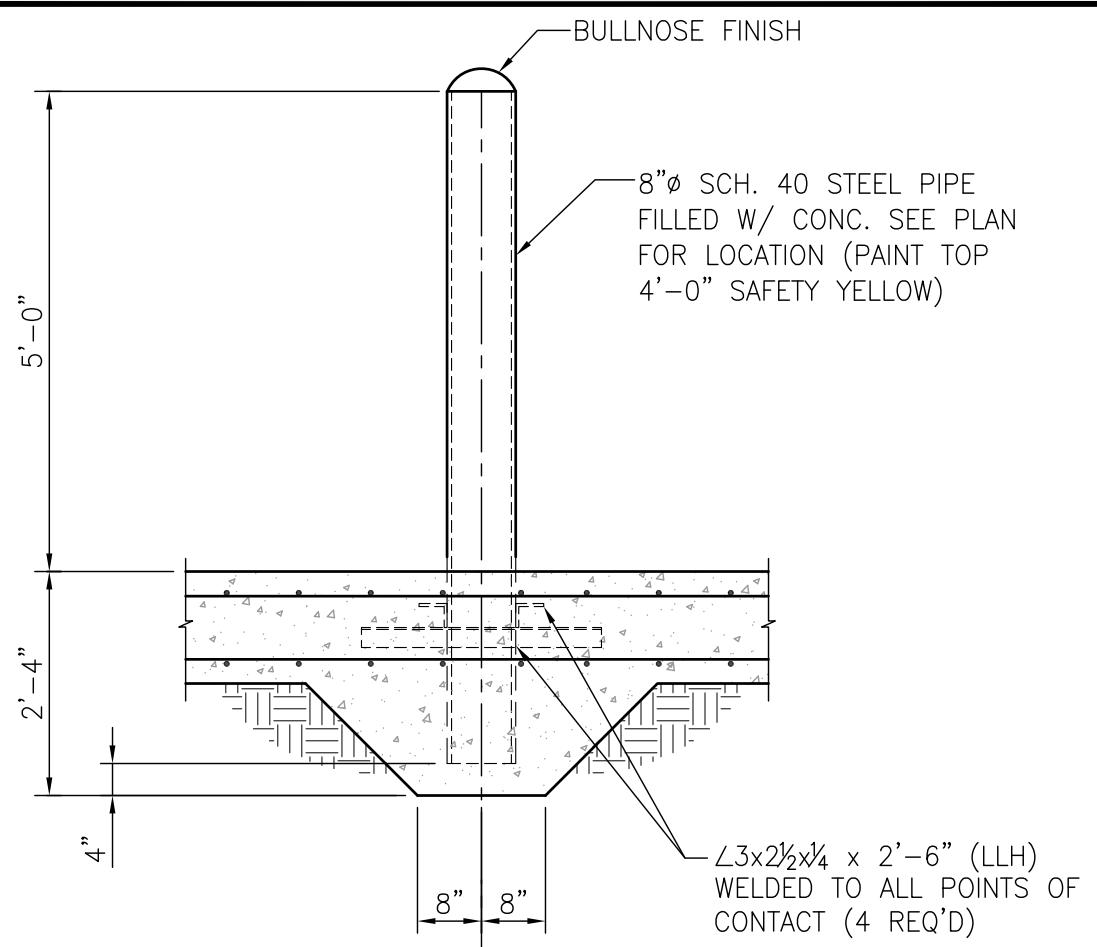
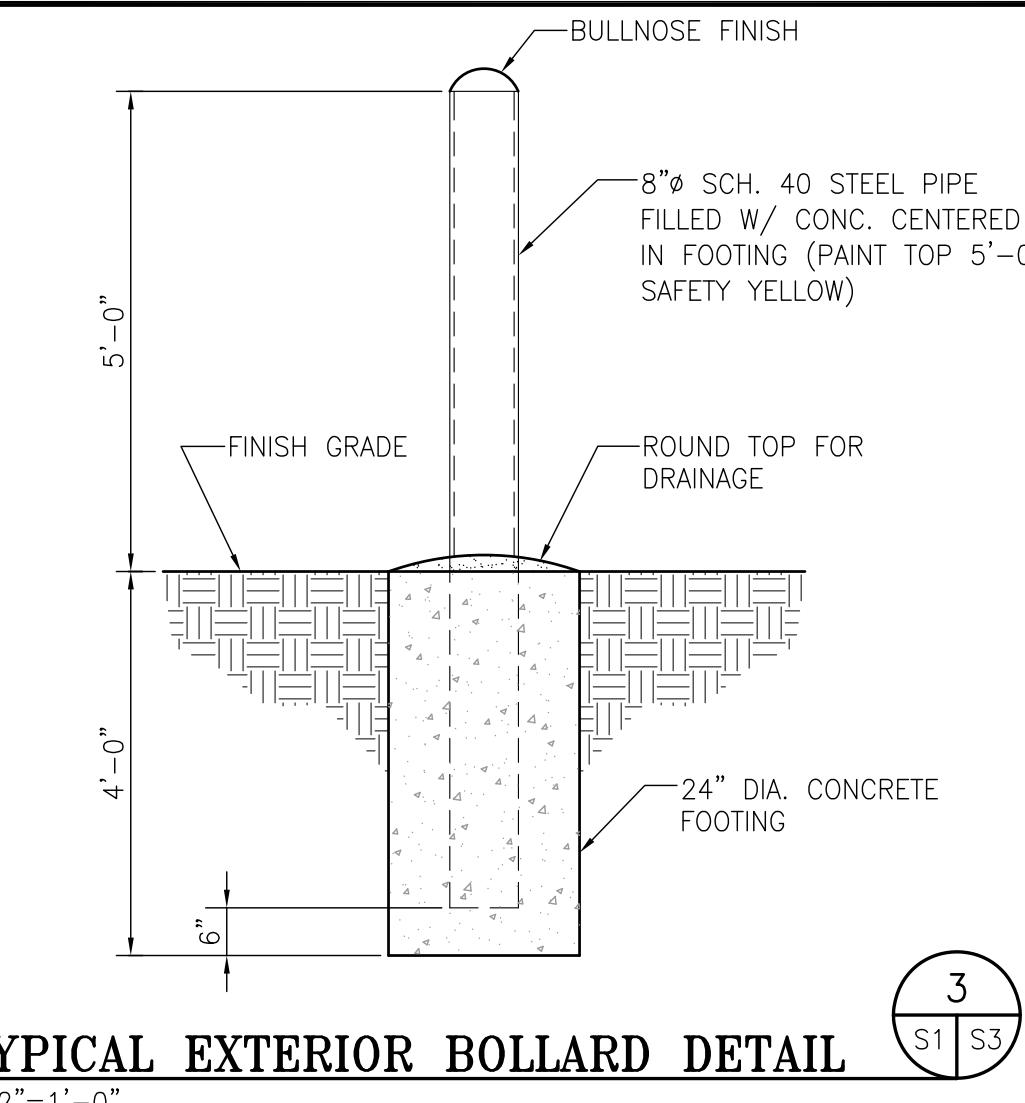
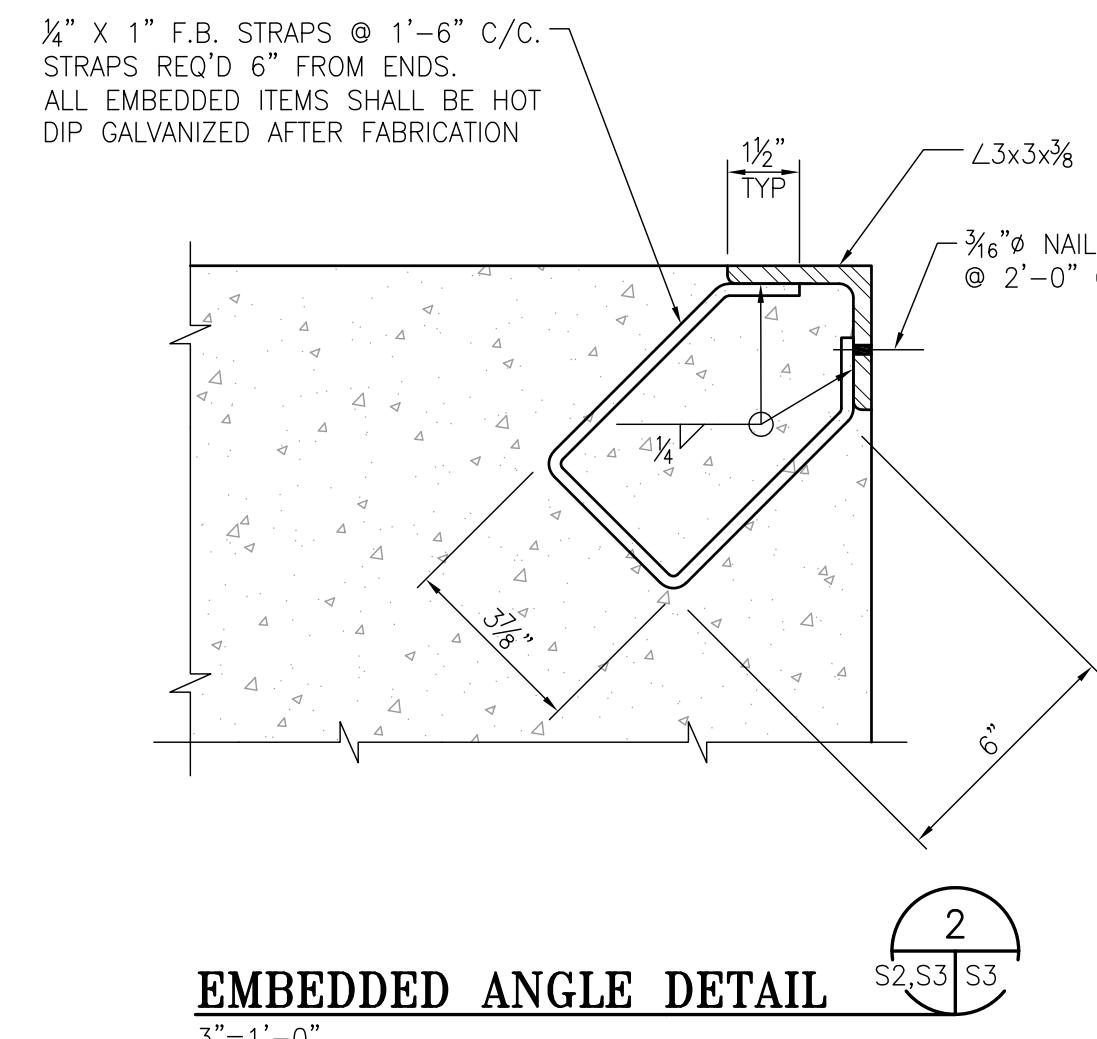
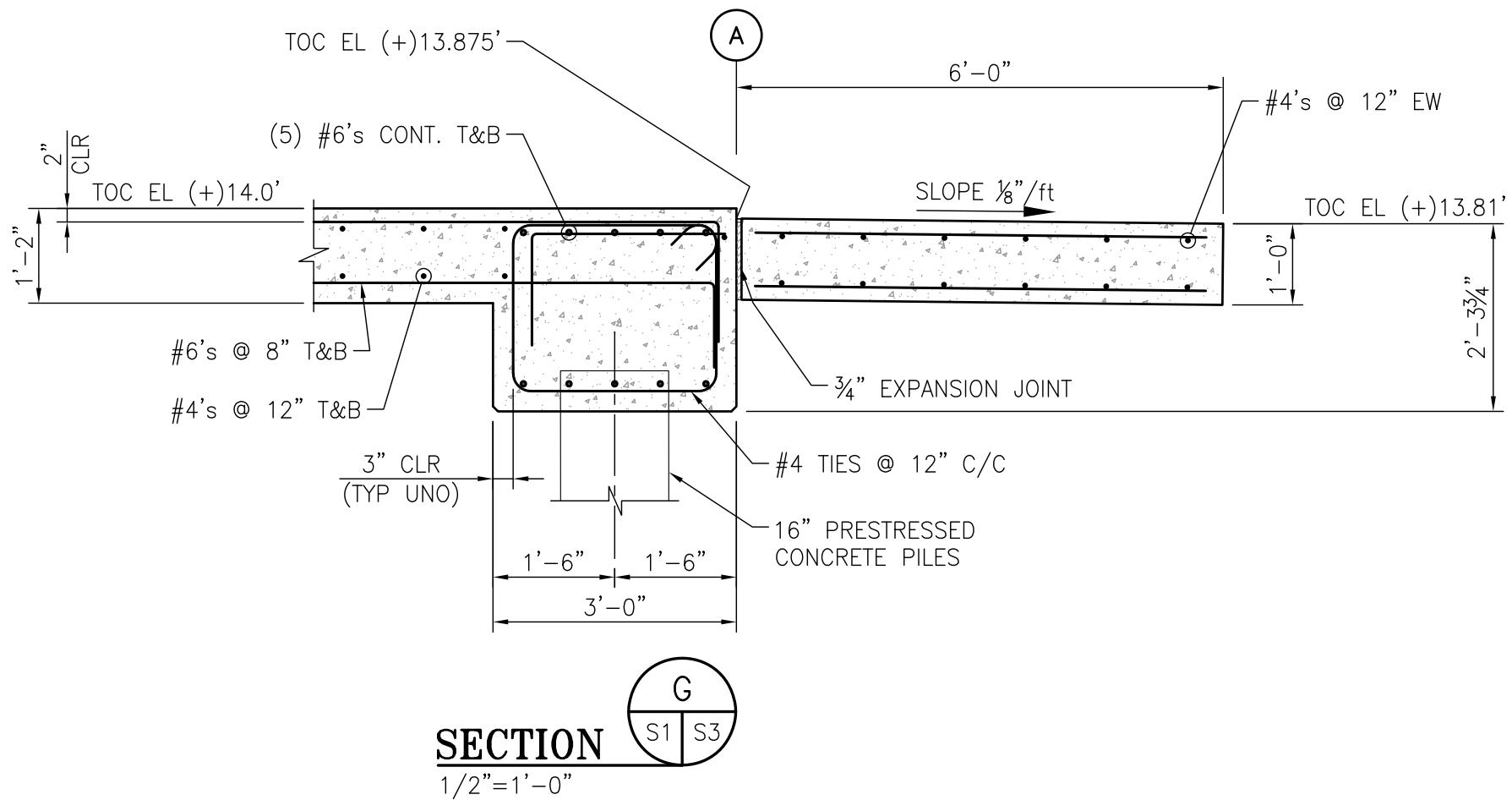
NEW FABRICATION SHOP PACKAGE

FOUNDATION SECTIONS – SHEET 1 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S2

REV: E



2' 1' 0 2' 4'  
3' 6" 9" 1'  
SCALE: 3" = 1'-0"  
SCALE: 1/2" = 1'-0"

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PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

FOUNDATION SECTIONS – SHEET 2 OF 3

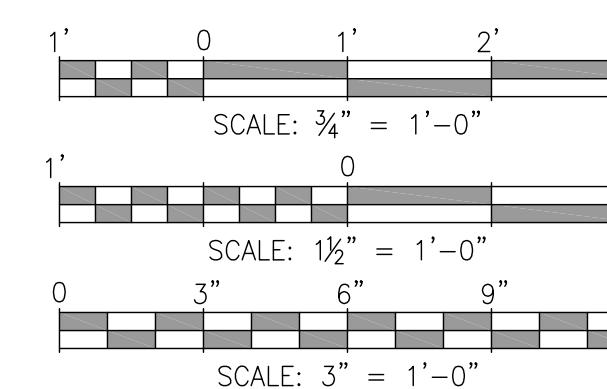
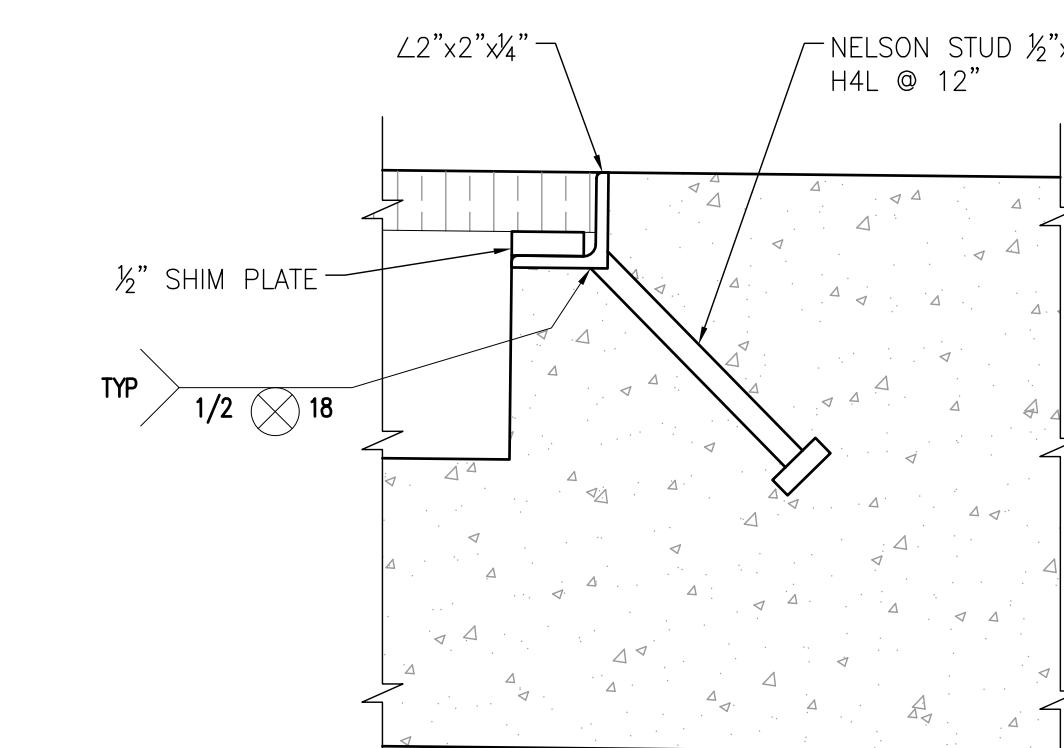
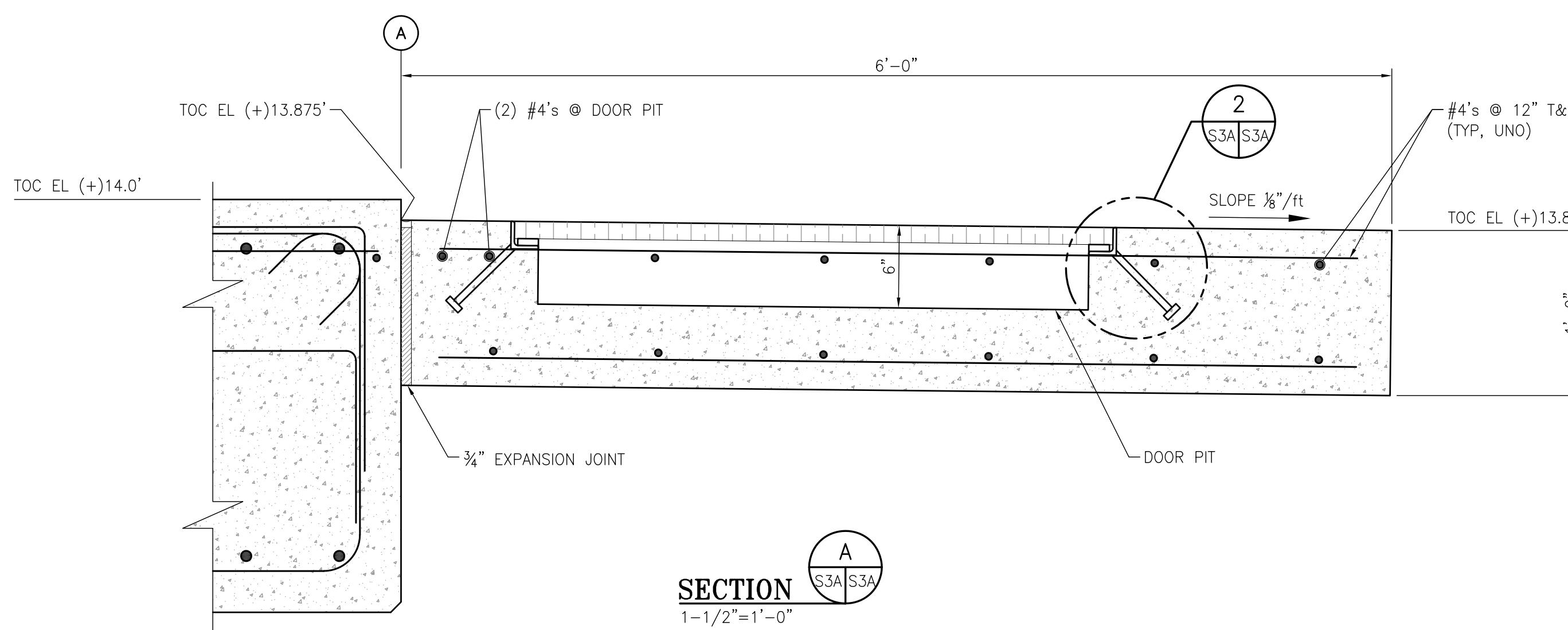
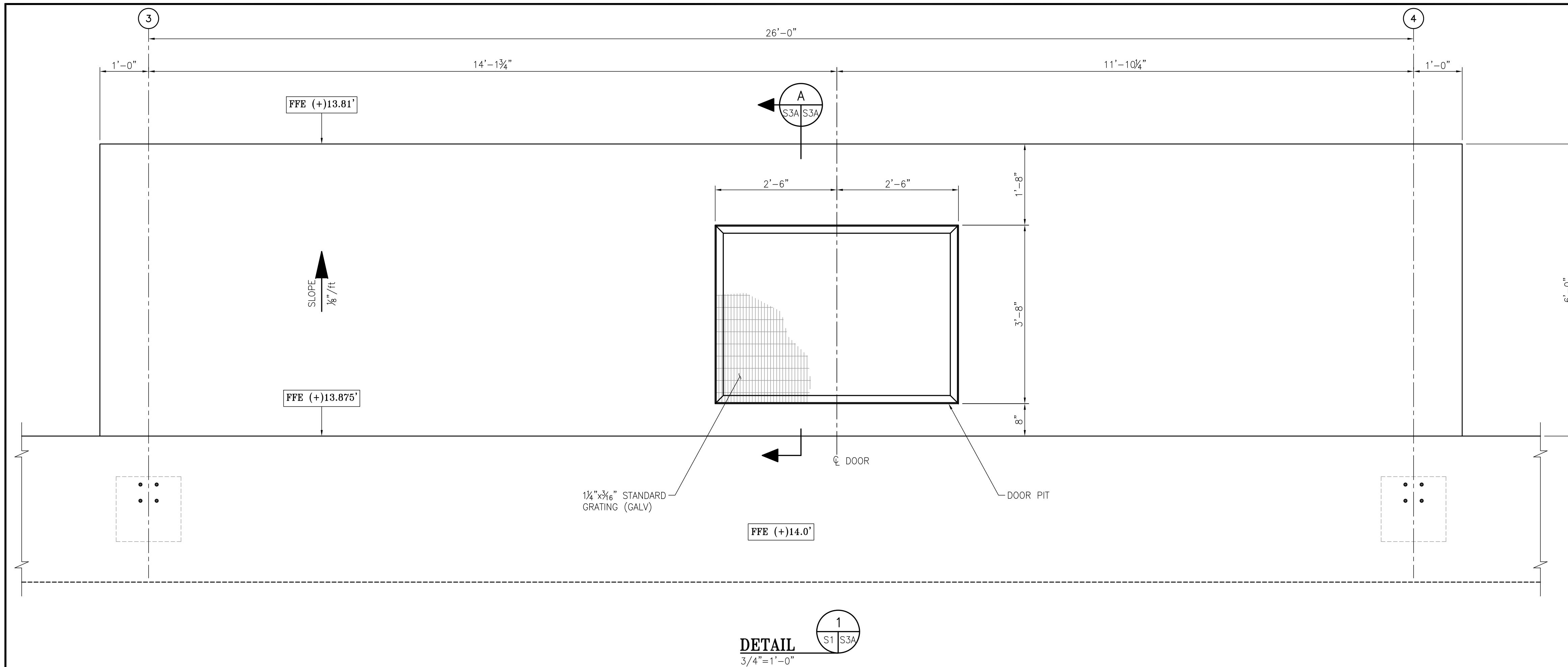
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PROJECT NO: 4617 DWG NO: S3 REV: D

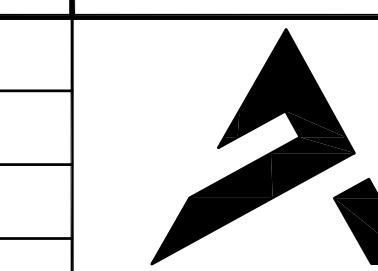
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	C	100% DESIGN REVIEW	JLH	JEJ	RSG 09-09-25
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	A	60% DESIGN REVIEW	JLH	JEJ	RSG 06-10-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D



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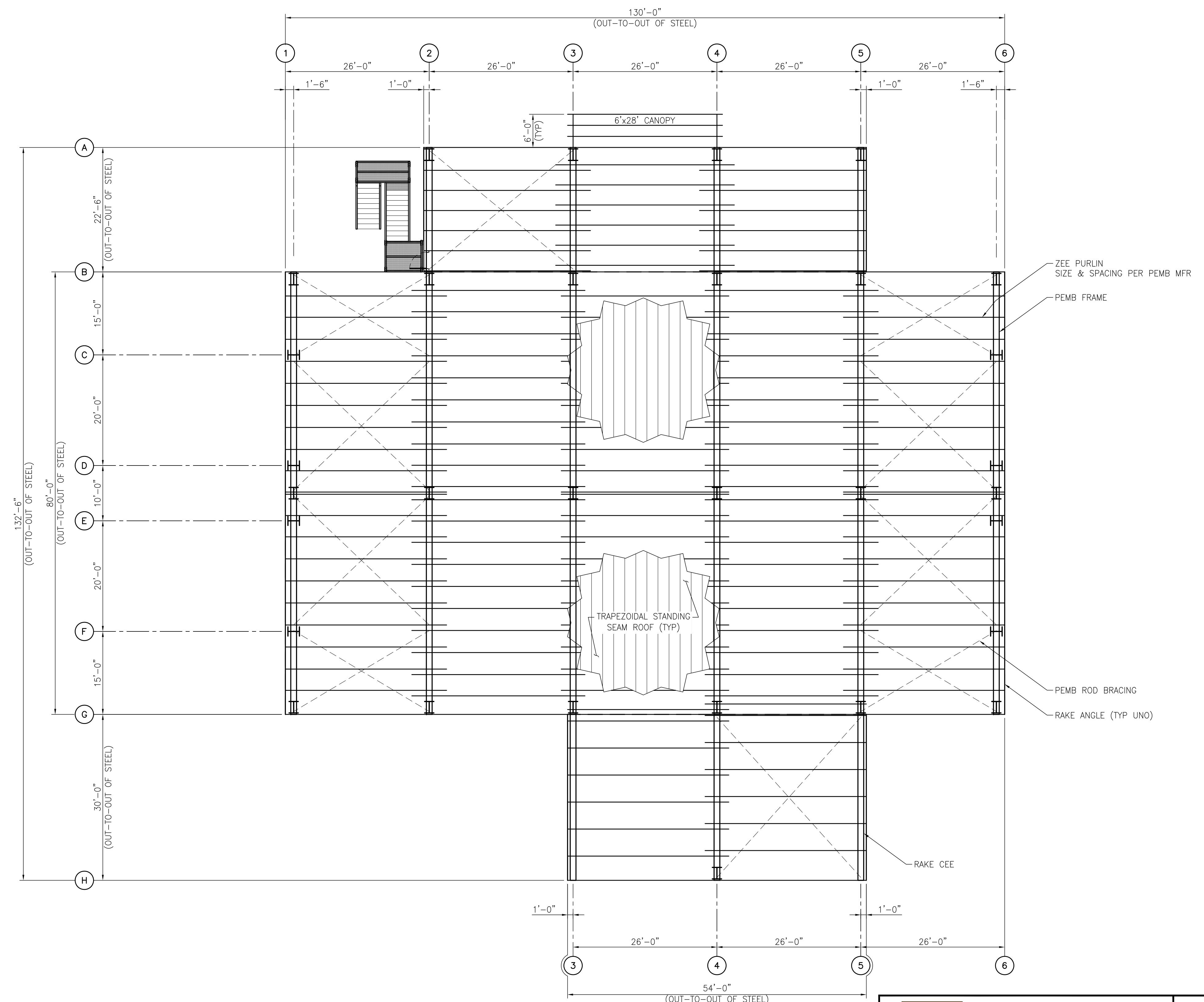
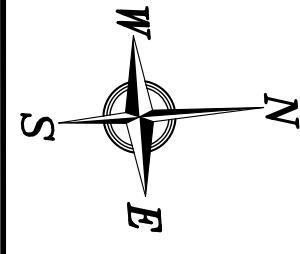
McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

FOUNDATION SECTIONS – SHEET 3 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S3A REV: A



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### ROOF FRAMING PLAN

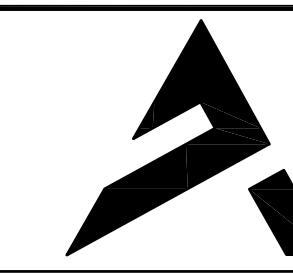
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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:



APTIM  
PORT SERVICES, LLC

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McDUFFIE TERMINAL IMPROVEMENTS

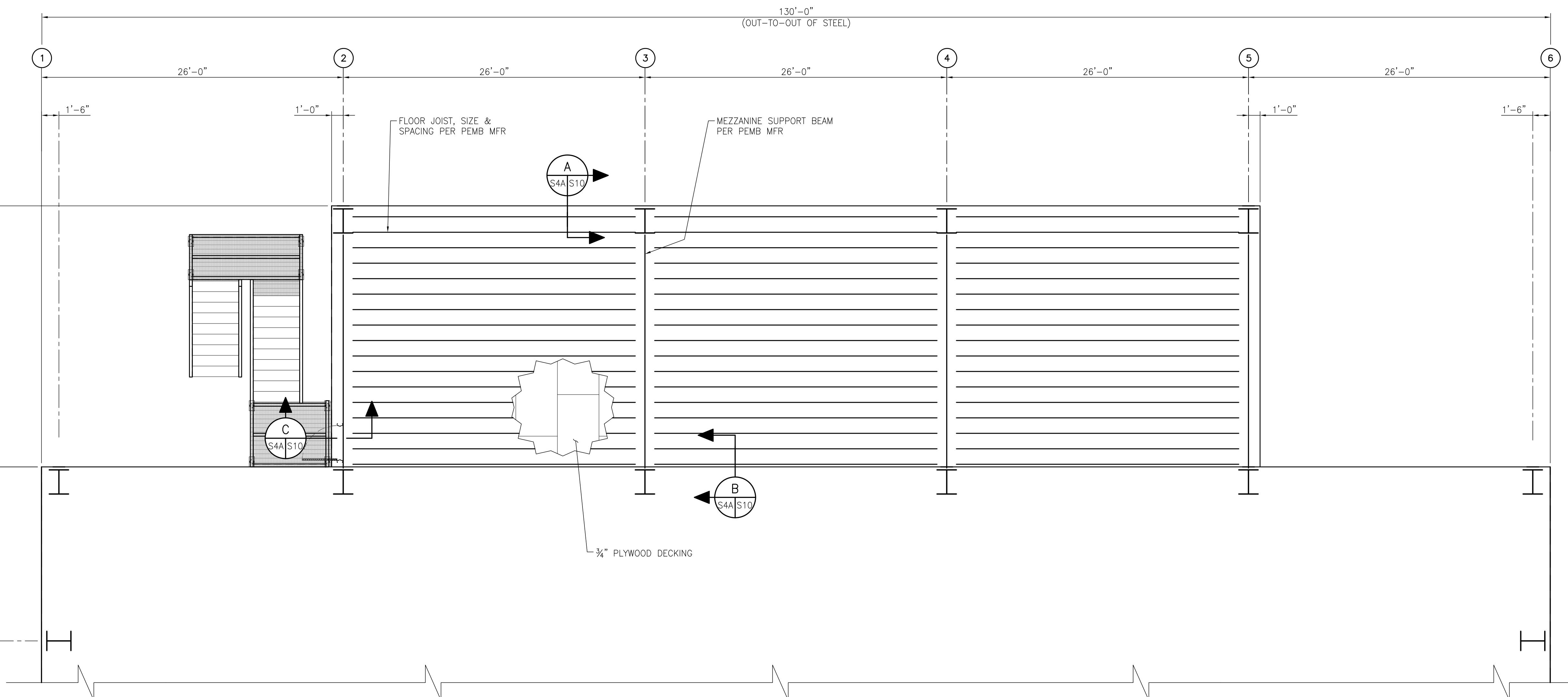
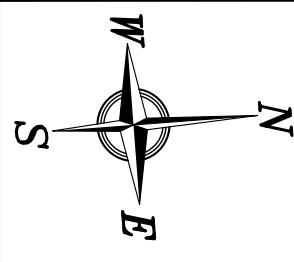
NEW FABRICATION SHOP PACKAGE

ROOF FRAMING PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S4

REV: D

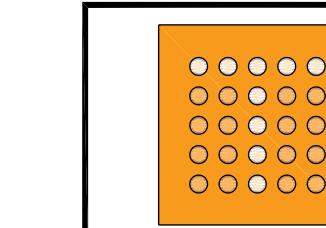


MEZZANINE FLOOR FRAMING PLAN @ EL (+)26.0'  
3/16"=1'-0"

5' 0 5' 10'  
SCALE:  $\frac{3}{16}$ " = 1'-0"

NOTES

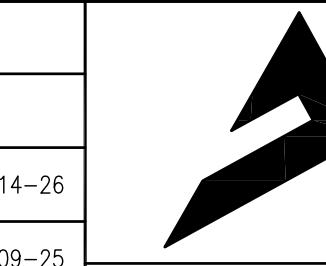
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	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE
			DRAWN: JLH	CK'D: JEJ	APP'D: RSG	DATE: 03-05-25
			SCALE: AS NOTED			



thompson  
ENGINEERING



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE



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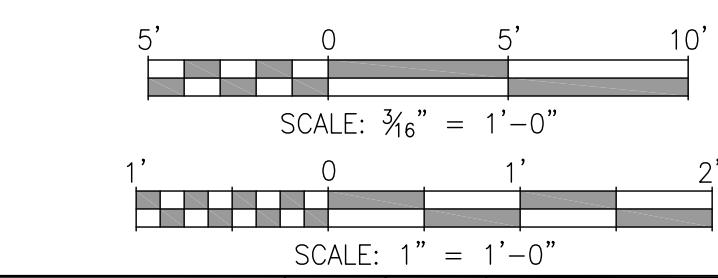
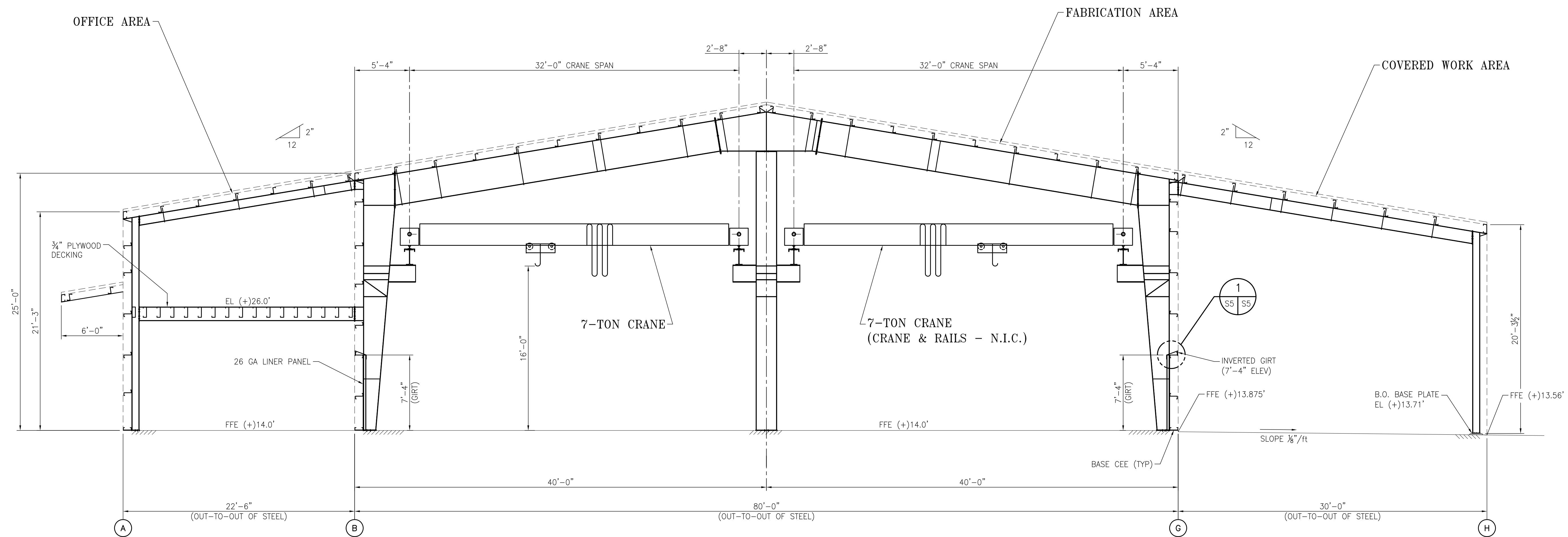
McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

MEZZANINE FLOOR FRAMING PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S4A REV: D



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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

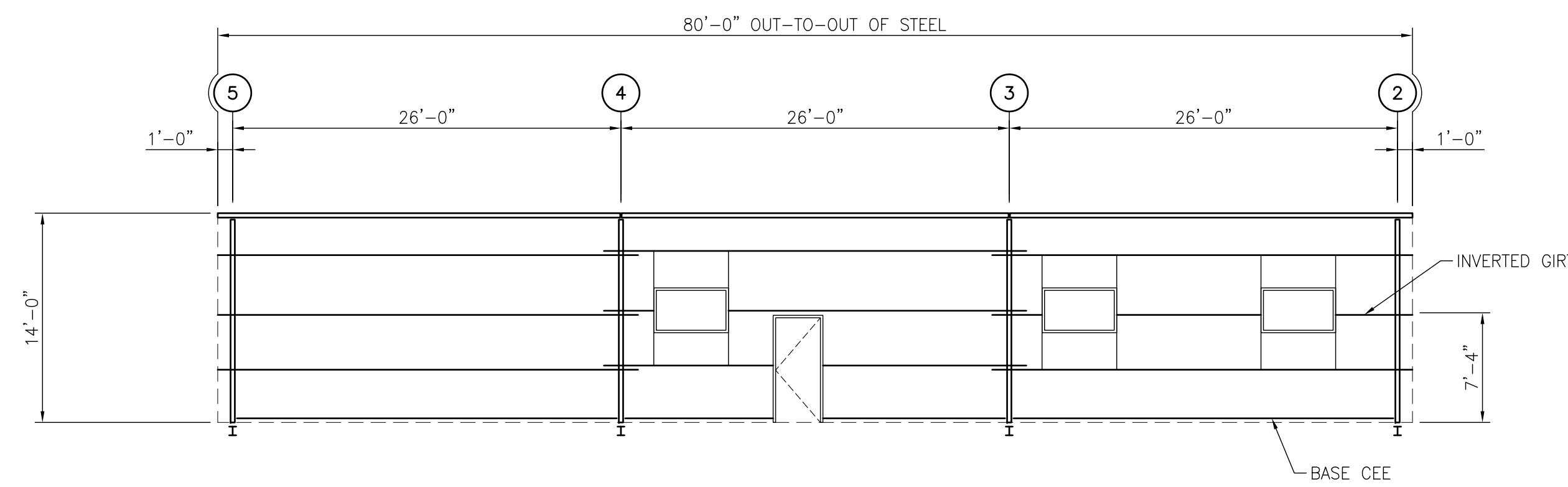
TYPICAL FRAME ELEVATION

FOR: ALABAMA PORT AUTHORITY

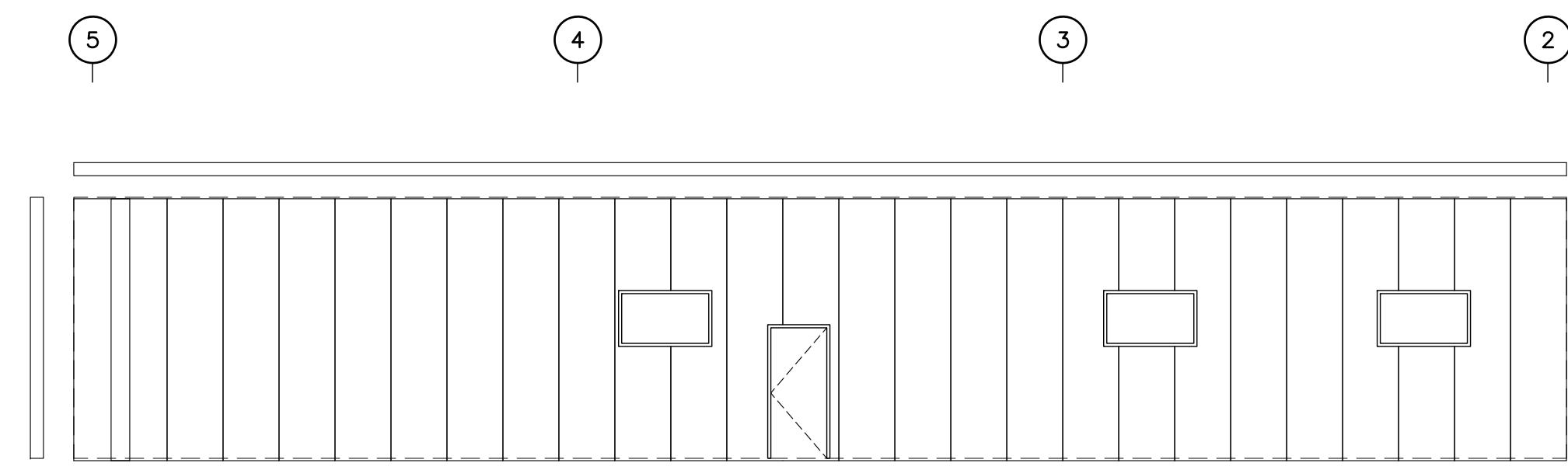
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NOTES				
	E	ISSUED FOR BID	JLH	JEJ
	D	100% DESIGN REVIEW	JLH	JEJ
	C	95% DESIGN REVIEW	JLH	JEJ
	B	60% DESIGN REVIEW	JLH	JEJ
	A	30% DESIGN REVIEW	JLH	JEJ
		REFERENCE DRAWINGS	DRAWN	CK'D APPD
			NO.	REVISION
			DRAWN	CK'D JEJ APPD: RSG
			DATE	DATE: 01-03-25 SCALE: AS NOTED

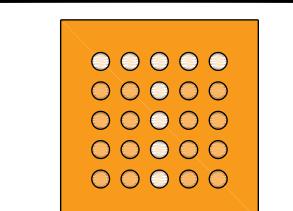


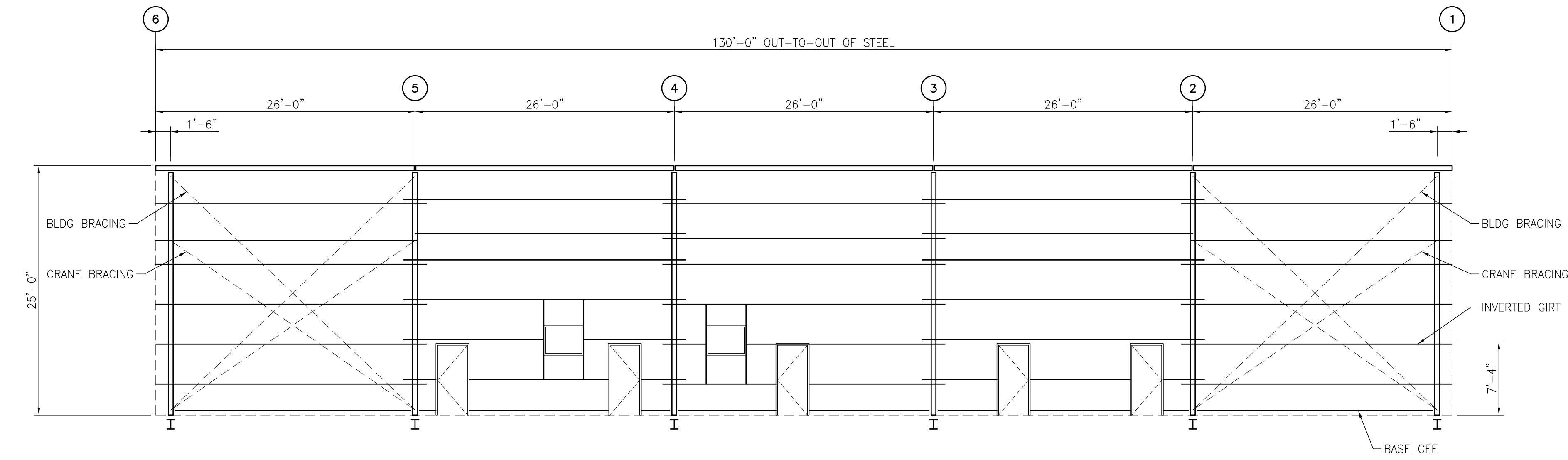
NOTE: 26 GA LINER PANELS  
REQ'D (7'-4" GIRT).



8' 0 8' 16'  
SCALE:  $\frac{1}{8}$ " = 1'-0"

NOTES						
	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D APP'D DATE
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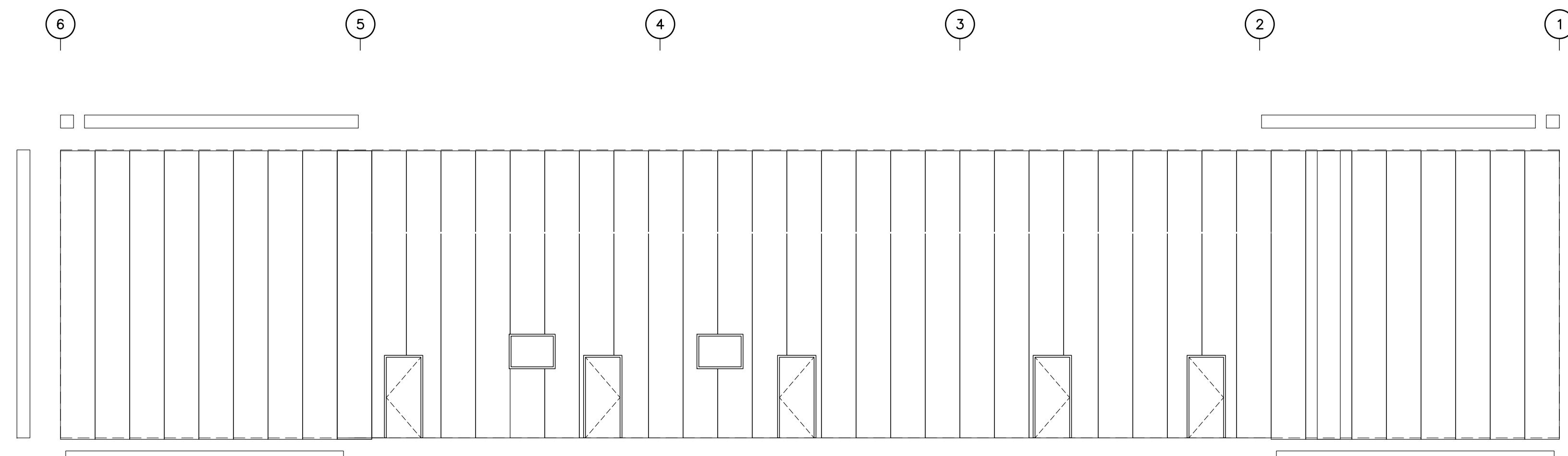
 <b>thompson</b> ENGINEERING	 <b>ALABAMA</b> PORT AUTHORITY PORT OF MOBILE	CLIENT DWG NO:											
		McDUFFIE TERMINAL IMPROVEMENTS	NEW FABRICATION SHOP PACKAGE	SIDEWALL FRAMING - FRAME LINE A	FOR: ALABAMA PORT AUTHORITY	PROJECT NO: 4617	DWG NO: S6	REV: D					



**SIDEWALL FRAMING - FRAME LINE B**

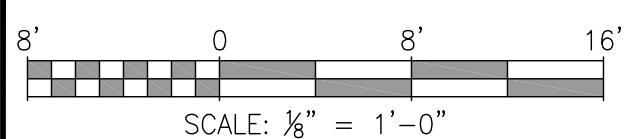
1/8"=1'-0"

NOTE: 26 GA LINER PANELS  
REQ'D (7'-4" GIRT).



**SIDEWALL SHEETING - FRAME LINE B**

1/8"=1'-0"

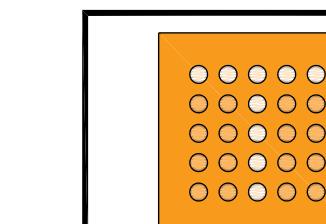


NOTES

D ISSUED FOR BID  
C 100% DESIGN REVIEW  
B 95% DESIGN REVIEW  
A 60% DESIGN REVIEW  
REFERENCE DRAWINGS

NO. **REVISION**  
DRAWN CK'D APP'D DATE

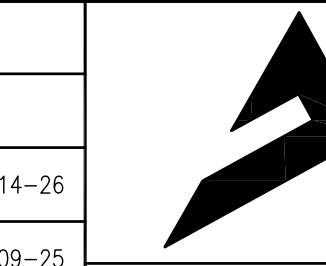
JLH JEJ RSG 01-14-26  
JLH JEJ RSG 09-09-25  
JLH JEJ RSG 08-08-25  
JLH JEJ RSG 06-10-25  
DRAWN: JLH CK'D: JEJ APP'D: RSG DATE: 03-05-25 SCALE: AS NOTED



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ENGINEERING



**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE



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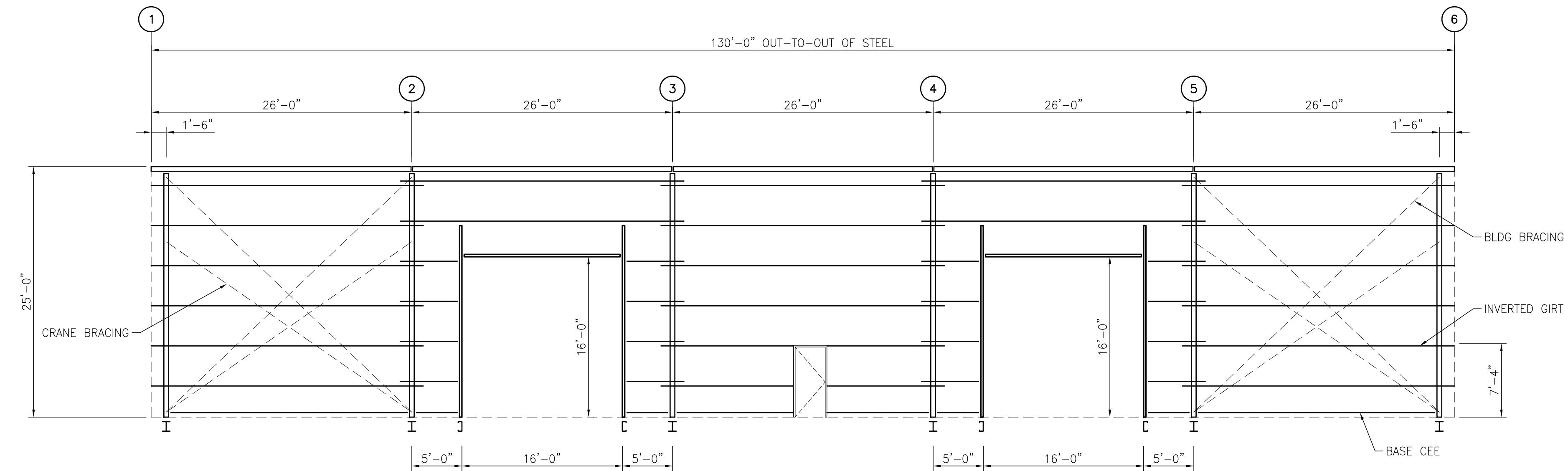
McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

SIDEWALL FRAMING - FRAME LINE B

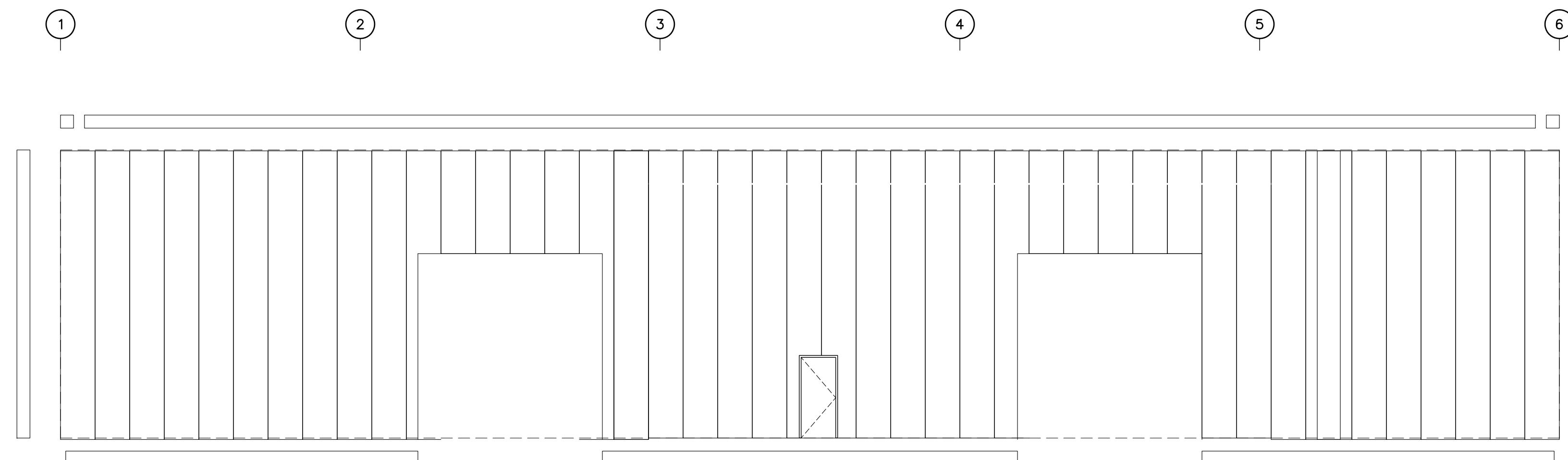
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S7 REV: D

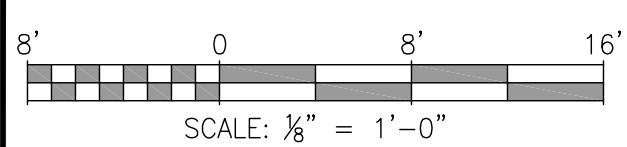


NOTE: 26 GA LINER PANELS  
REQ'D (7'-4" GIRT).

**SIDEWALL FRAMING - FRAME LINE G**  
1/8"=1'-0"

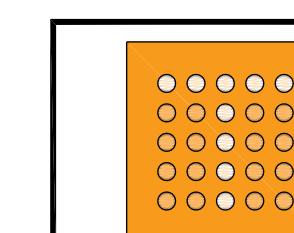


**SIDEWALL SHEETING - FRAME LINE G**  
1/8"=1'-0"



NOTES

	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
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			SCALE: AS NOTED			

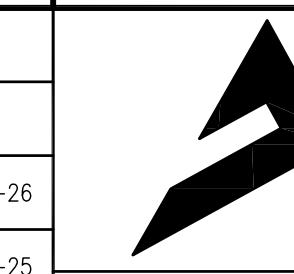


**thompson**  
ENGINEERING



**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:



**APTIM**  
PORT SERVICES, LLC

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

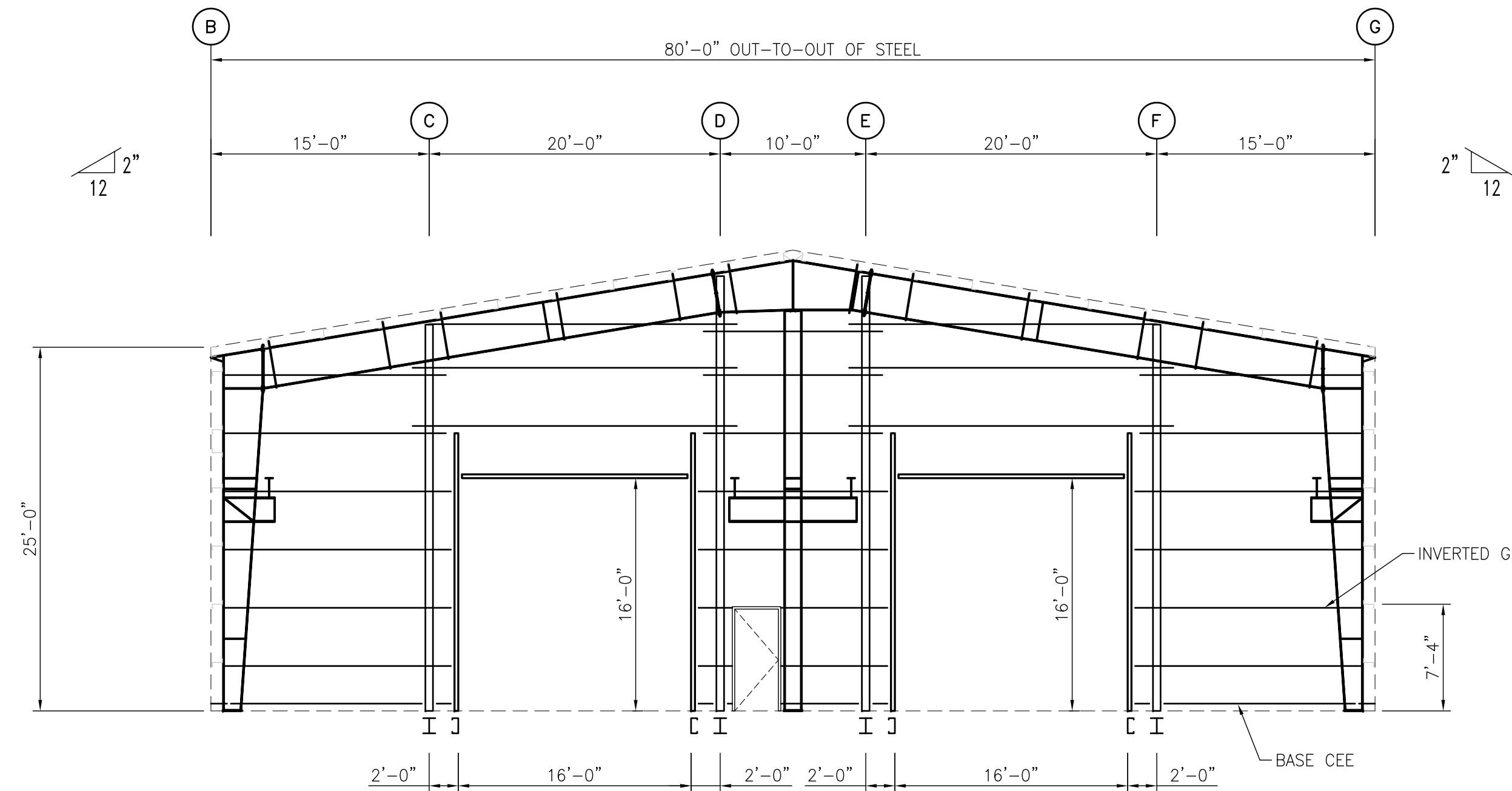
SIDEWALL FRAMING - FRAME LINE G

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S8

REV: D

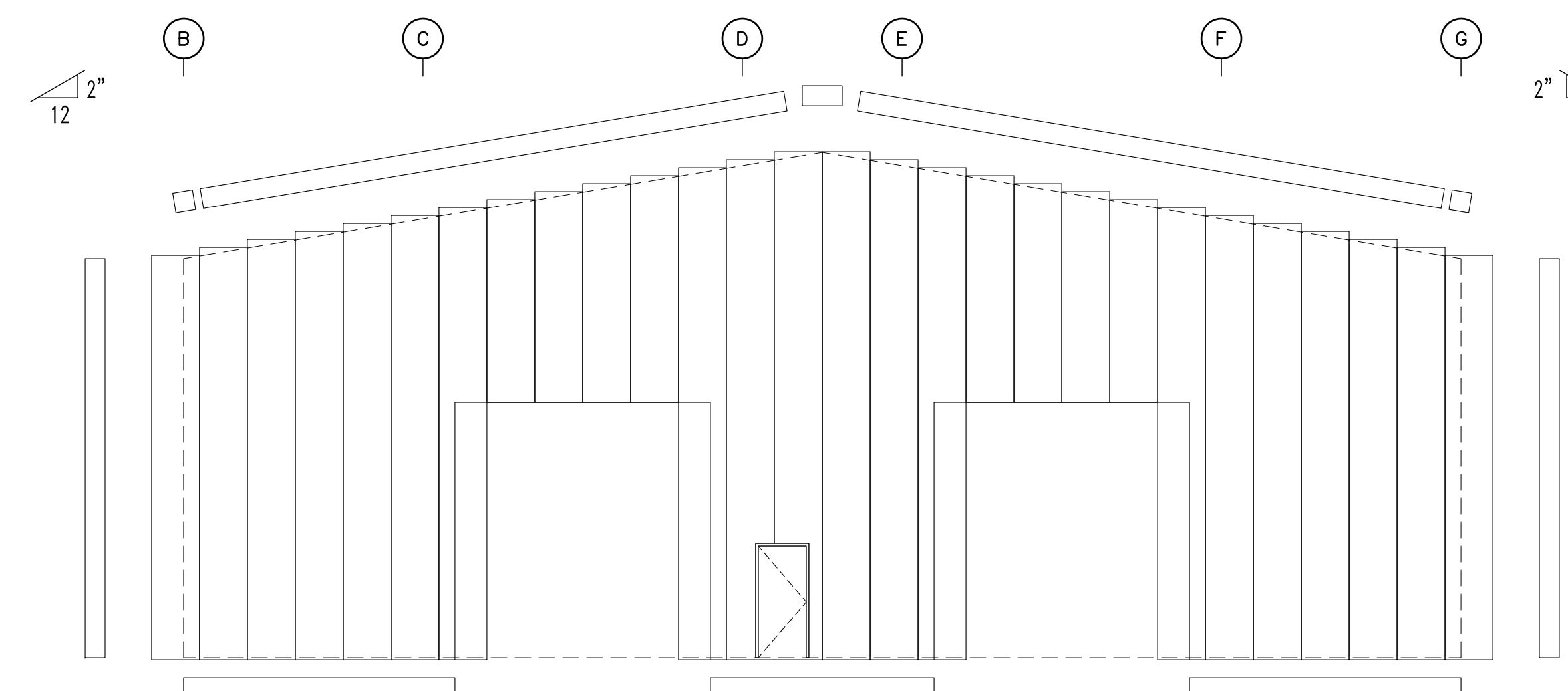
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NOTE: 26 GA LINER PANELS  
REQ'D (7'-4" GIRT).

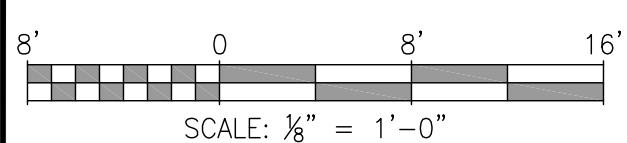
ENDWALL FRAMING - FRAME LINE 1

1/8"=1'-0"

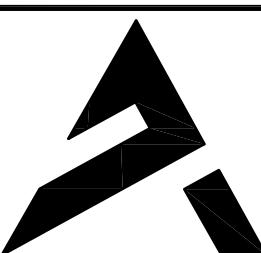
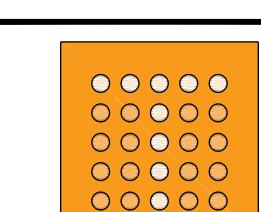


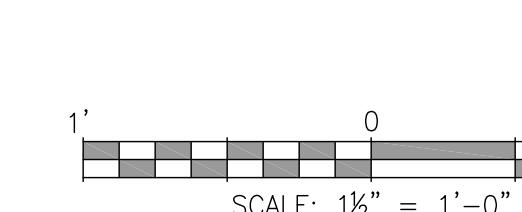
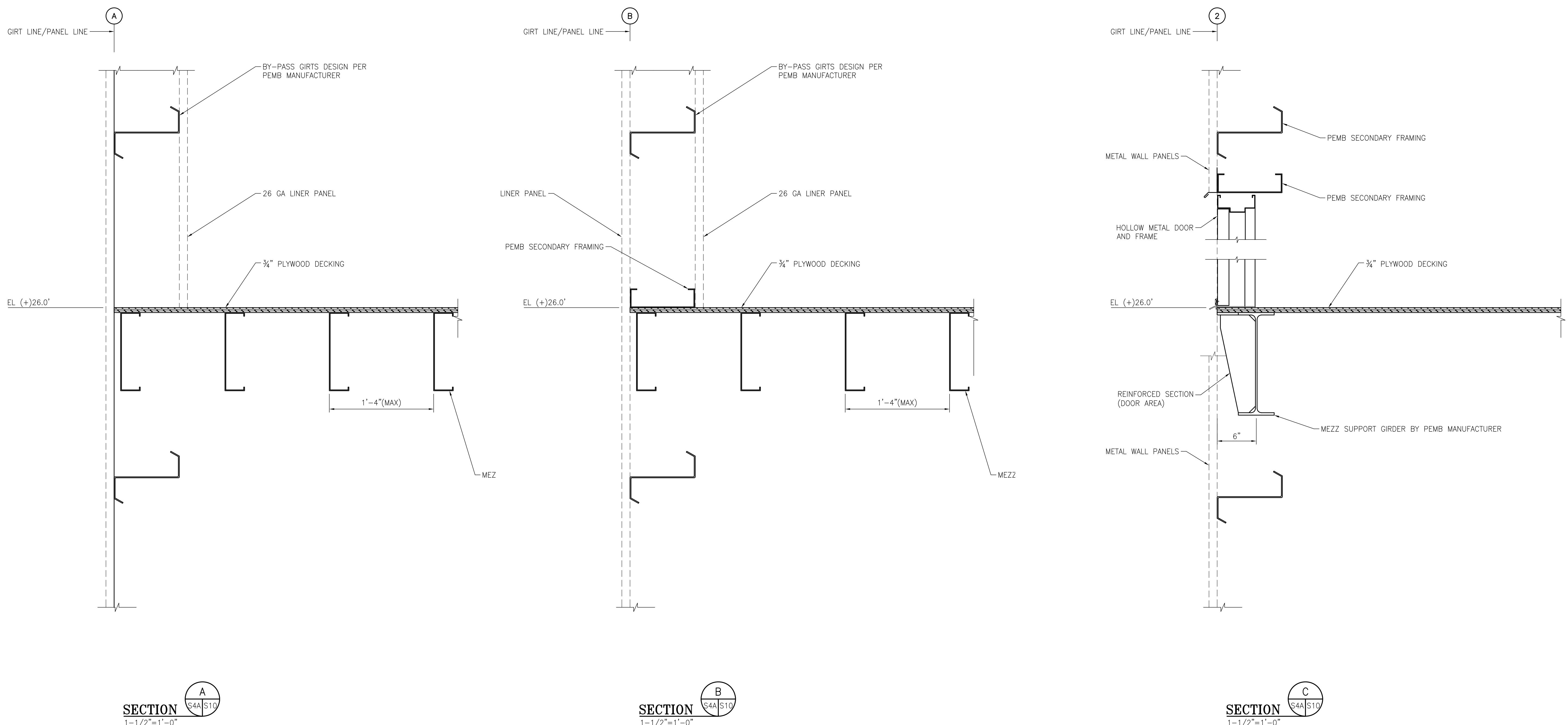
ENDWALL SHEETING - FRAME LINE 1

1/8"=1'-0"



NOTES

	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26	THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS PROHIBITED EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.	 <b>APTIM</b> PORT SERVICES, LLC	 <b>thompson</b> ENGINEERING				 <b>ALABAMA</b> PORT AUTHORITY PORT OF MOBILE			
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25										
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25										
	A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25										
	REFERENCE DRAWINGS		NO.	REVISION		DRAWN	CK'D	APP'D	DATE	DRAWN: JLH	CK'D: JEJ	APP'D: RSG	DATE: 03-05-25	SCALE: AS NOTED		
													PROJECT NO: 4617	DWG NO: S9	REV: D	



1' 0" 1'

thompson  
ENGINEERING



**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

MEZZANINE FLOOR FRAMING SECTIONS

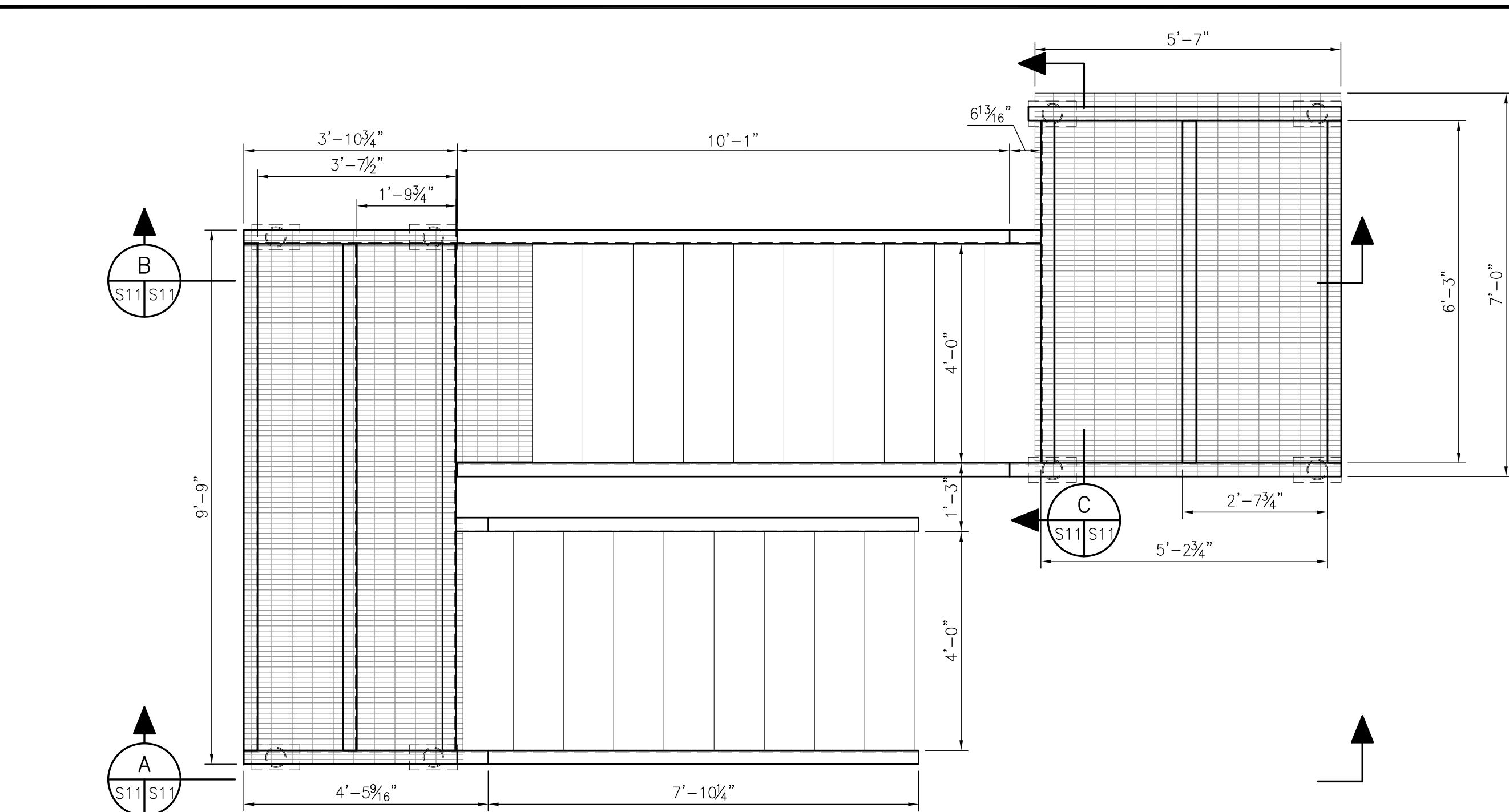
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: S10 REV: C

**APTIM**  
PORT SERVICES, LLC

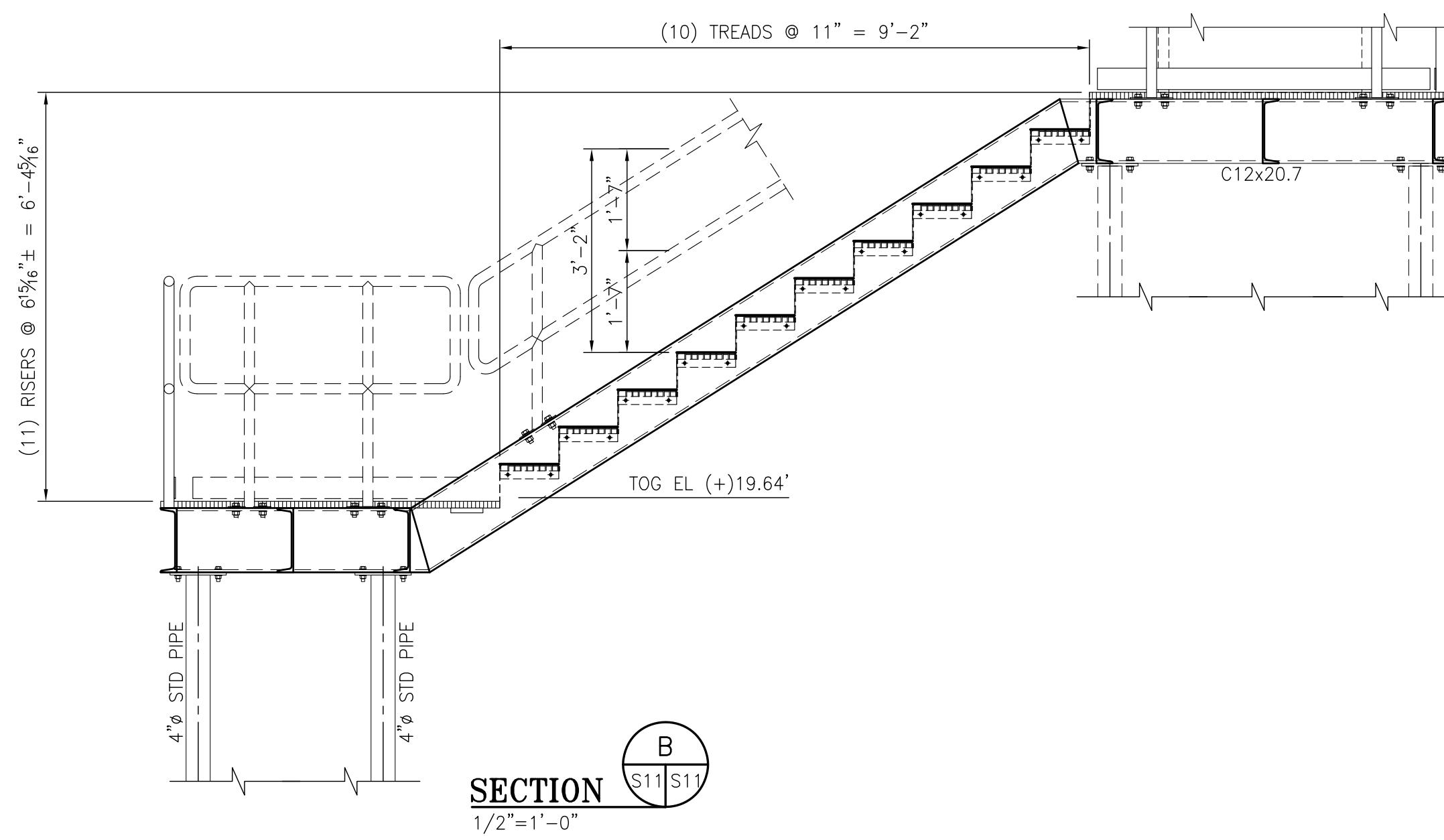
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NOTES					
	C	ISSUED FOR BID	JLH	JEJ	RSG 01-14-26
	B	100% DESIGN REVIEW	JLH	JEJ	RSG 09-09-25
	A	95% DESIGN REVIEW	JLH	JEJ	RSG 08-08-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D



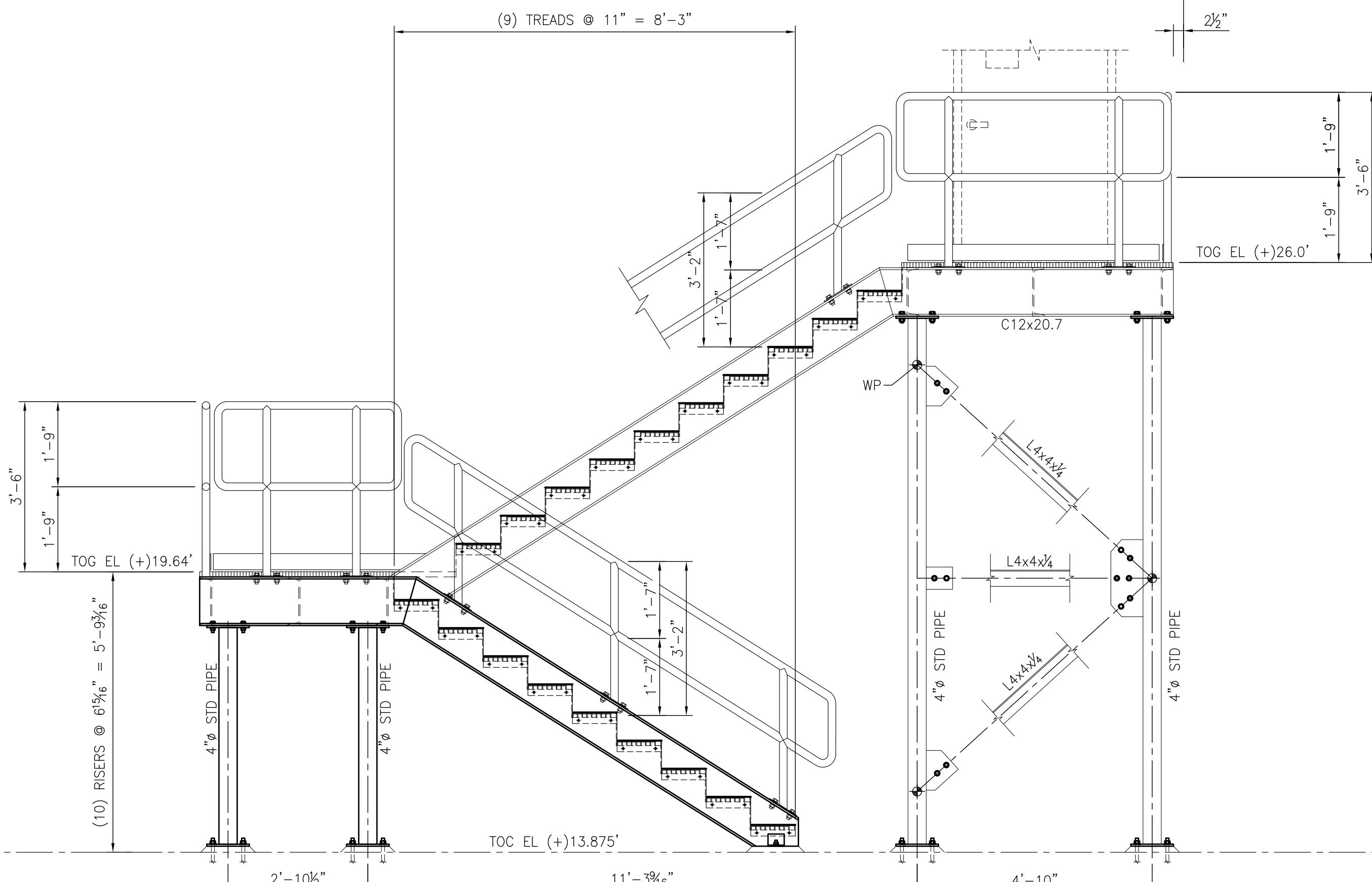
STAIR - PLAN

$$\frac{1}{2}'' = 1' - 0$$



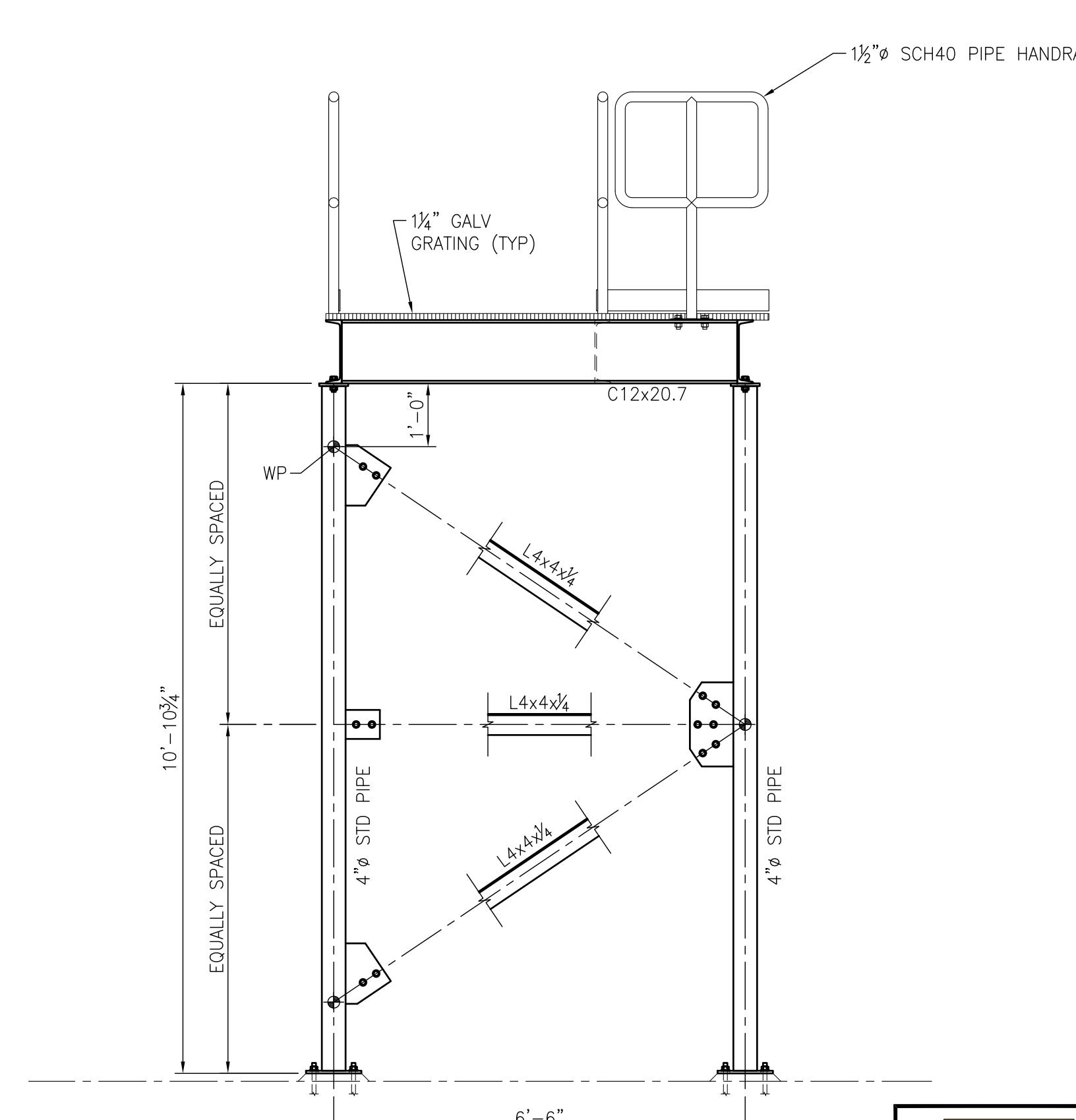
## SECTION

SECTION



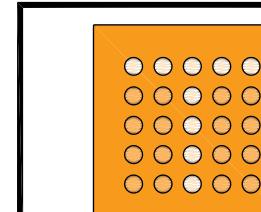
## SECTION A

SEC



## SECTION C

**SECTION**



# thompson

## ENGINEERING



# ALABAMA PORT AUTHORITY

Page 10

NOTES	

:\Folders\M4600\4617 APA APMT Phase V Development\Cad Files\CURRENT\Fab Shop\Fab Shop\4617 - S11 Rev C.dwg By: joseph.henderson Printed: Fri 30-Jan-2026 - 02:4

Form: C:\S-0-F-4-204.dwg Printed: Fri 30-Jan-2026 - 02:40PM

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McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
STAIR PLAN SECTIONS & DETAILS

## STAIR PLAN, SECTIONS, & D

ALABAMA PORT AUTHORITY

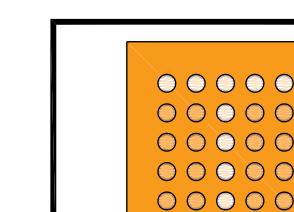
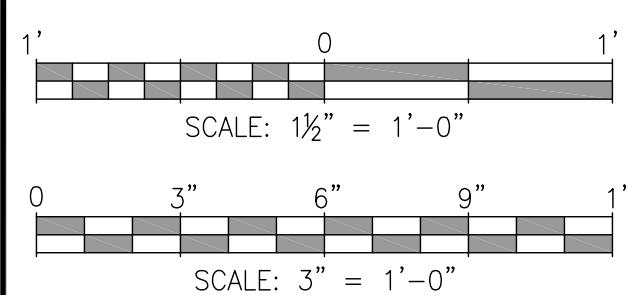
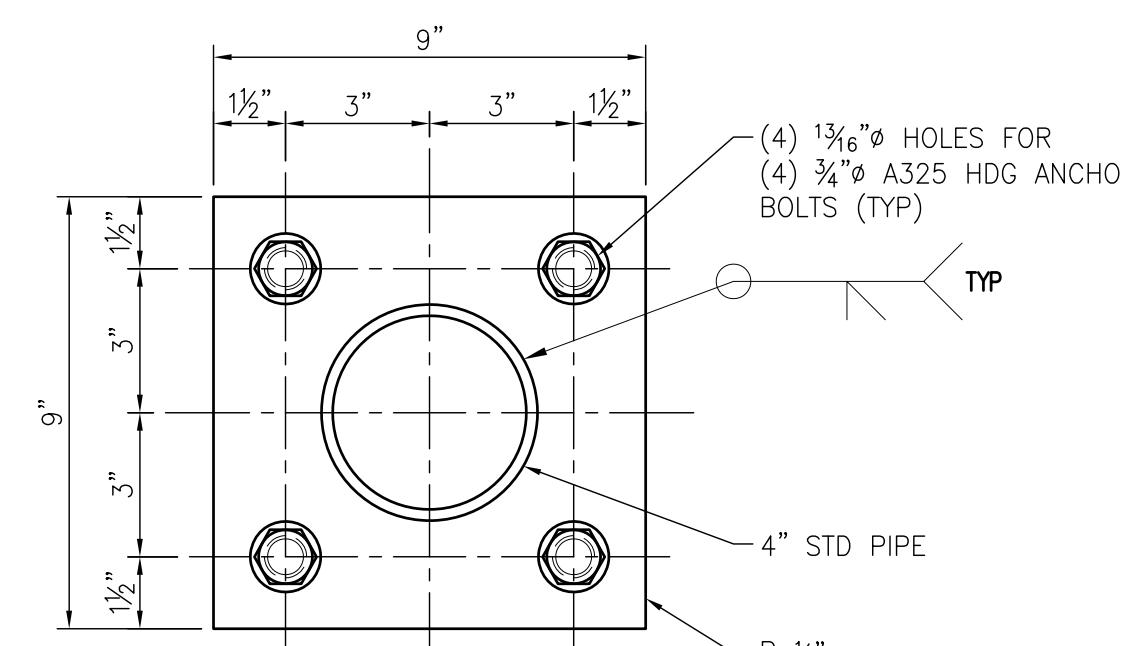
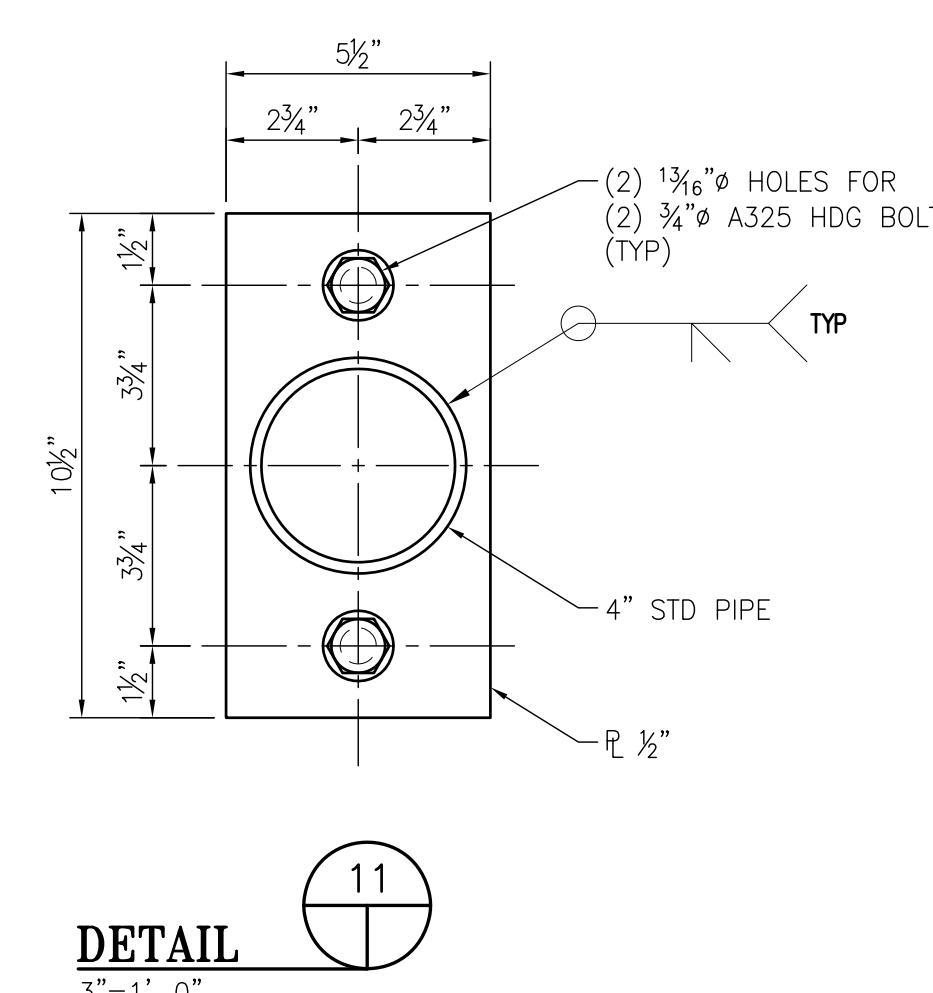
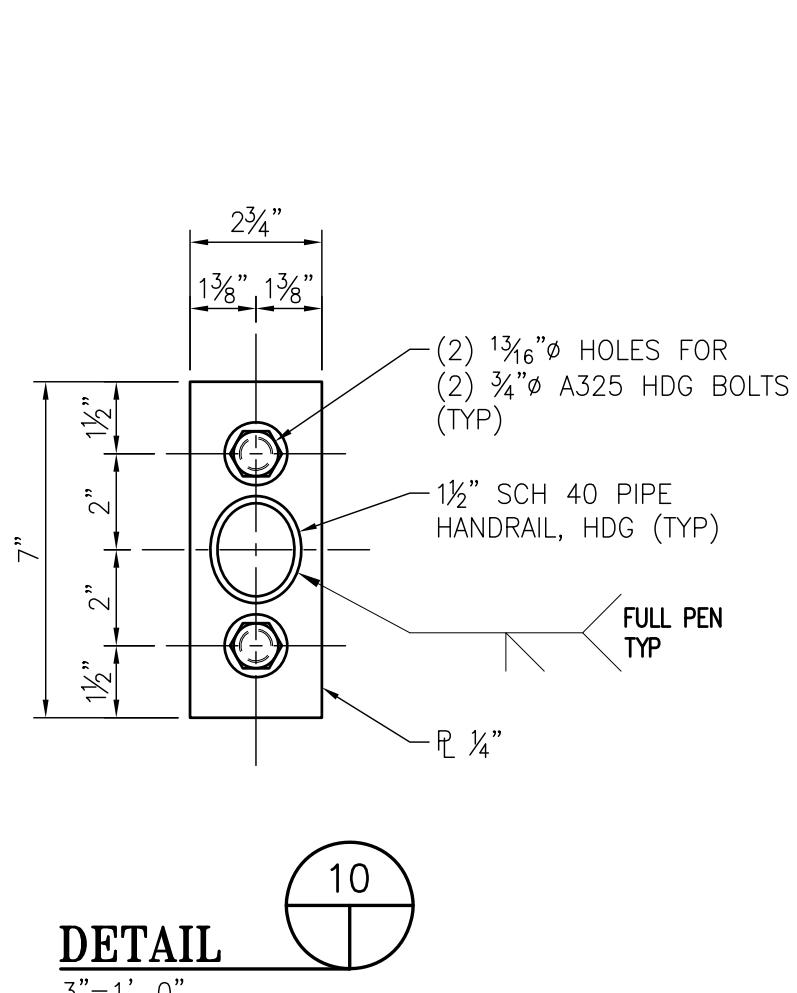
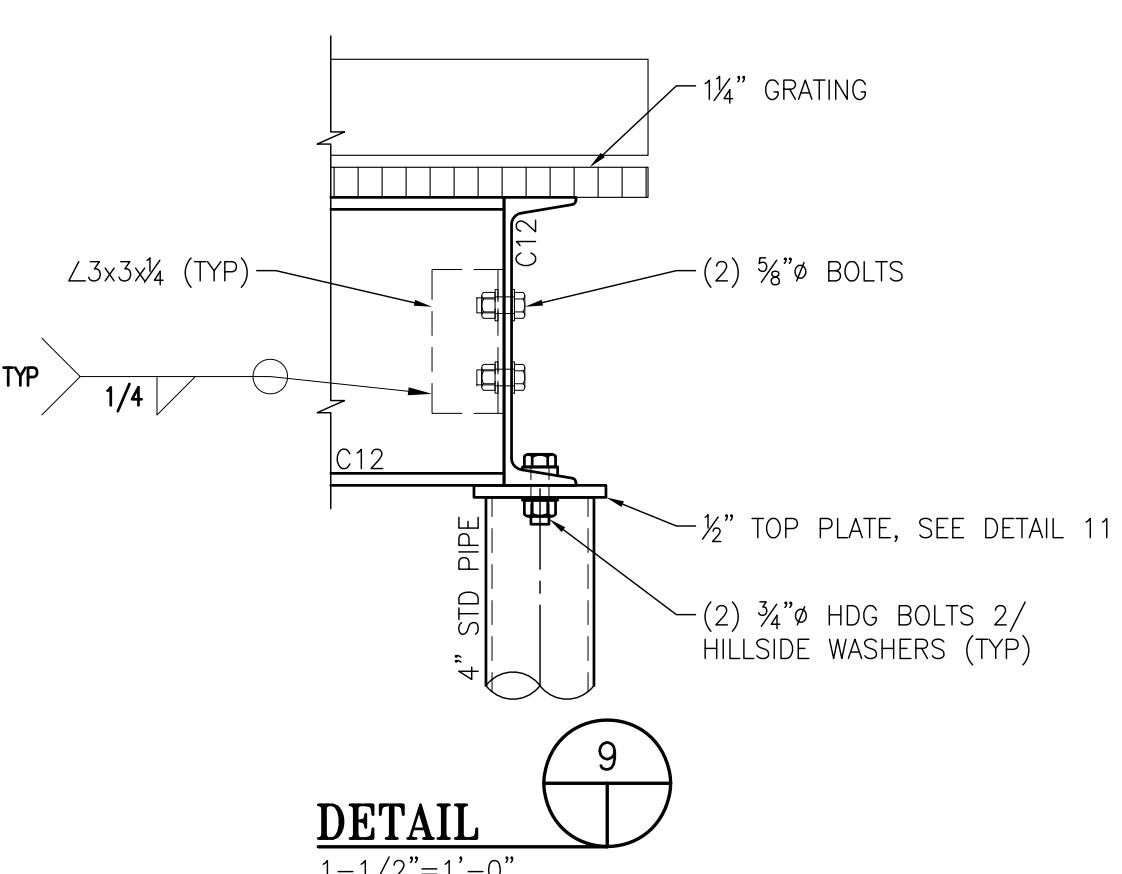
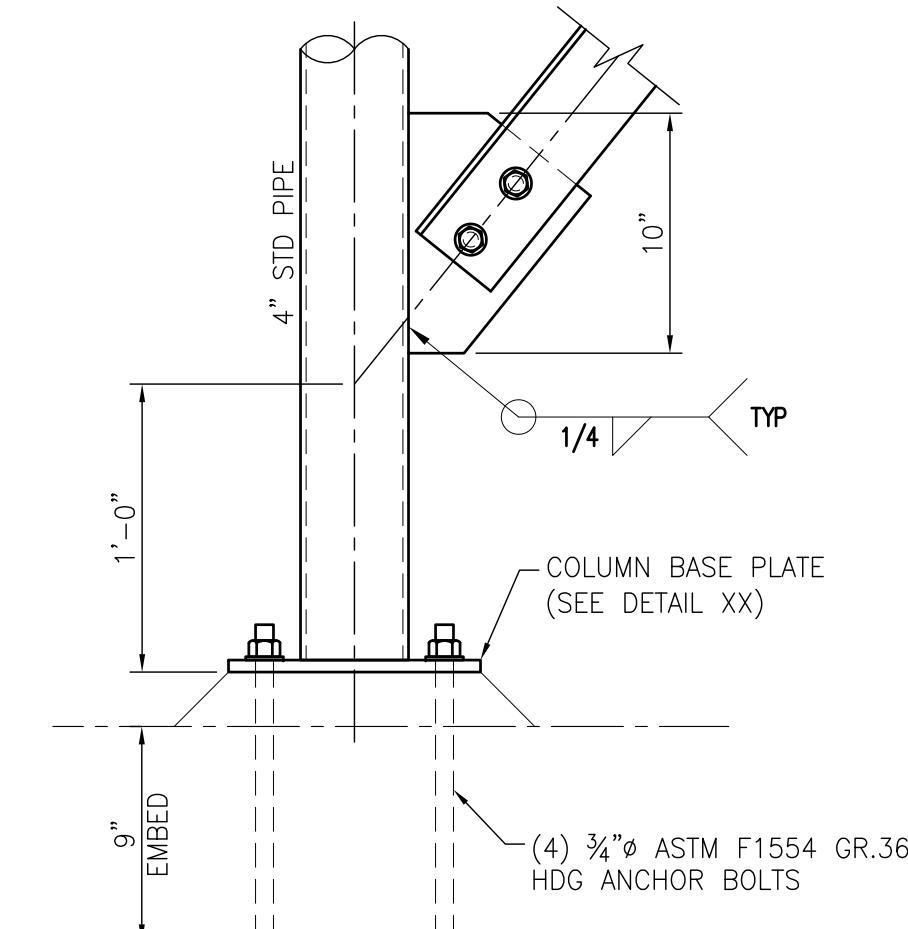
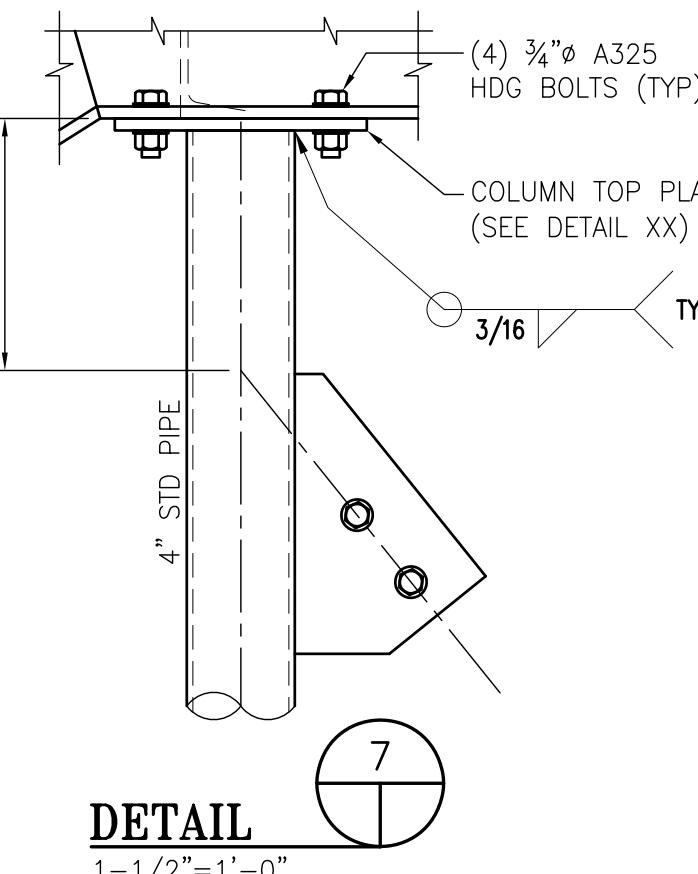
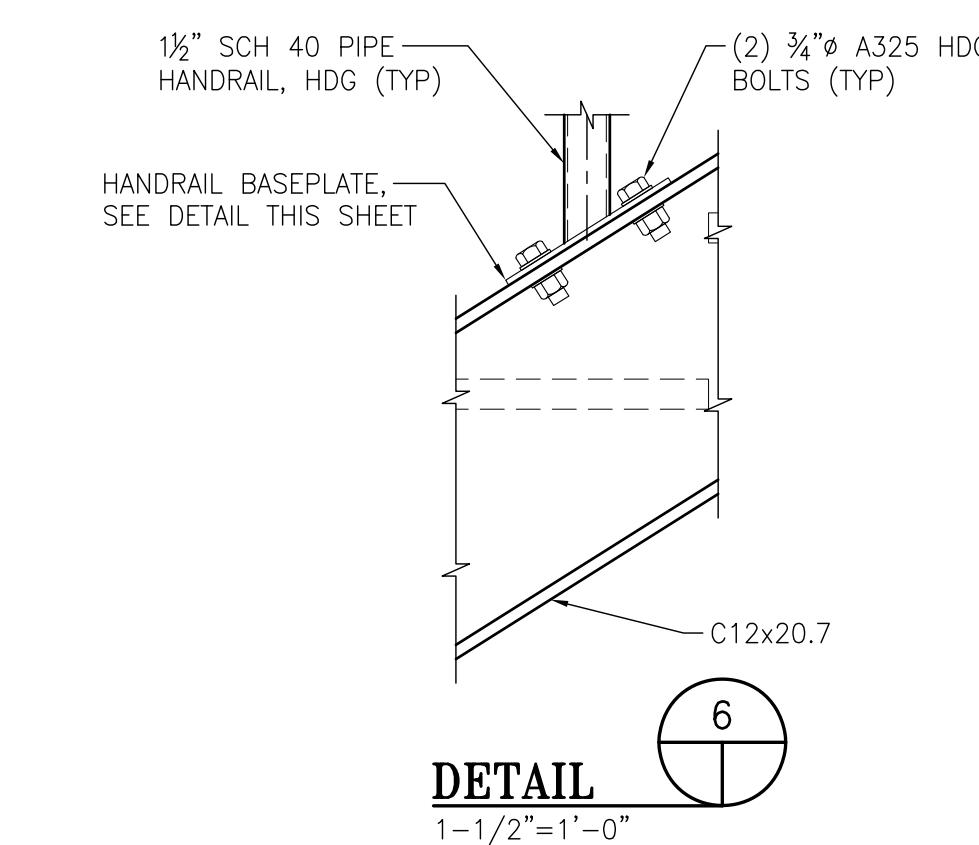
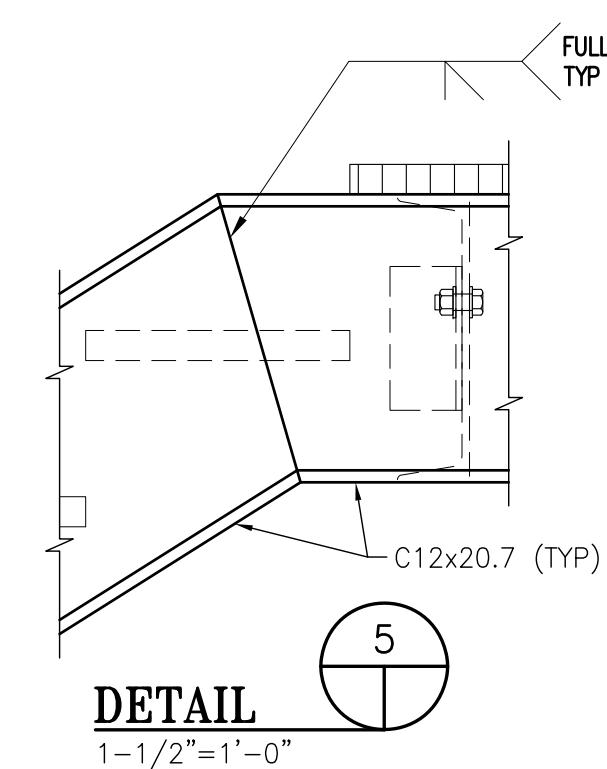
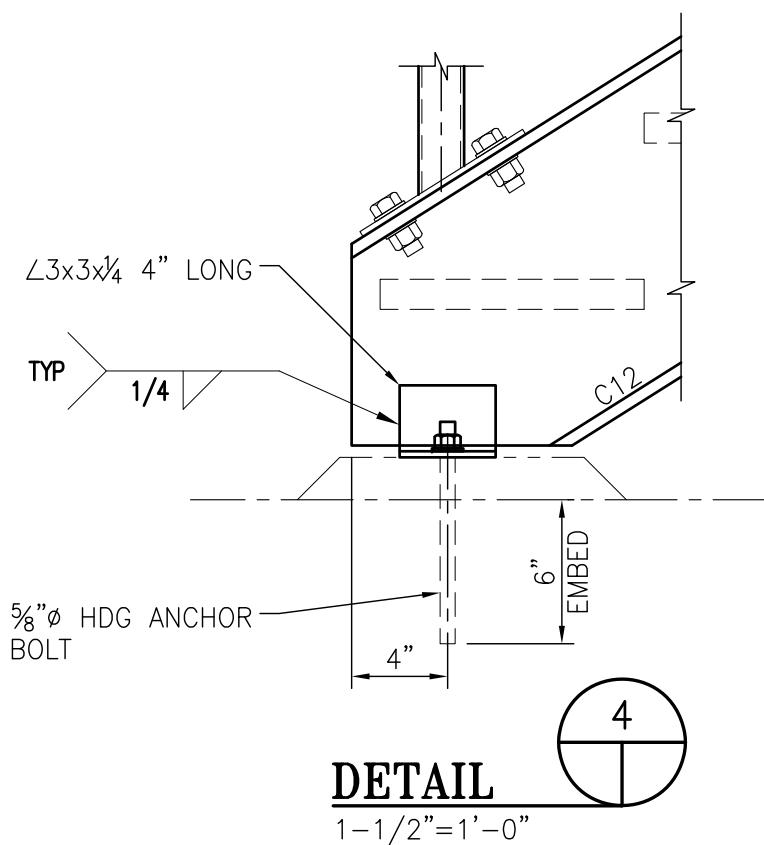
FOR: ALABAMA PORT AUTHORITY

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PROJECT NO: 4617 DWG NO: S11

Page 1 of 1

m: CMS-830-00-FM-02104 Aptim ANSI D.dwg



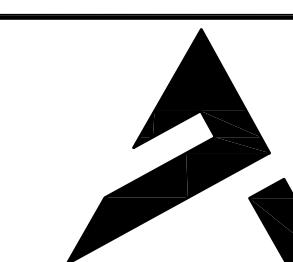
# thompson

## ENGINEERING



# ALABAMA PORT AUTHORITY

CLIENT: SWIG, INC.



# APTIM

PORT SERVICES, LLC

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AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

# McDUFFIE TERMINAL IMPROVEMENTS

## NEW FABRICATION SHOP PACKAGE

## STAIR MISCELLANEOUS DETAILS

PROJECT NO: 4617 DWG NO: S12

CMS-830-00-FM-02104 Aptim ANSI D.dwg

SCALE: 3" = 1'-0"

REFERENCE DRAWINGS	NO.	REVISION
	C	ISSUED FOR BID
	B	100% DESIGN REVIEW
	A	95% DESIGN REVIEW

CONTROL SEQUENCE: SPLIT SYSTEM HEAT PUMPS											
SPLIT SYSTEM HEAT PUMP UNIT INCLUDES AN AIR HANDLER WITH TWO SPEED FAN, ELECTRIC STRIP HEAT, AND AN OUTSIDE AIR DAMPER. TWO SPEED FAN IS CONTROLLED BY THE EQUIPMENT MANUFACTURER FACTORY IFD TO PROVIDE FOR STAGED COOLING CONTROL.											
CONTROLS INCLUDE SPACE TEMPERATURE CONTROL.											
SUPPLY FAN CONTROL											
A. DURING OCCUPIED PERIODS: THE SUPPLY FAN SHALL RUN CONTINUOUSLY.											
B. DURING UNOCCUPIED PERIODS: THE SUPPLY FAN IS NORMALLY OFF AND SHALL CYCLE ON CALL FOR HEATING OR COOLING IF SPACE IS UNOCCUPIED HIGH/LOW TEMPERATURE LIMITS ARE MET, THE SYSTEM SHALL BE ENERGIZED IN THE OCCUPIED MODE UNTIL THE SPACE TEMPERATURE RISES/FALLS BY 5°.											
2. COMPRESSOR AND REVERSING VALVE CONTROL:											
A. DURING OCCUPIED PERIODS: UNIT SHALL MAINTAIN SPACE TEMPERATURE SETPOINT AS DETERMINED BY LOCAL SPACE TEMPERATURE SENSORS (SUBJECT TO SOFTWARE LIMITS.)											
B. UPON A CALL FOR COOLING, THE COMPRESSOR(S) SHALL ENERGIZE AND REVERSING VALVE SHALL BE DE-ENERGIZED. LEAD COMPRESSOR OPERATION SHALL BE DISABLED IF DISCHARGE AIR TEMPERATURE FALLS BELOW 2°F WHILE IT IS OPERATING IN THE COOLING MODE.											
C. UPON A CALL FOR HEAT, THE COMPRESSOR(S) AND REVERSING VALVE SHALL BE ENERGIZED SIMULTANEOUSLY.											
D. DURING UNOCCUPIED PERIODS: IF SPACE UNOCCUPIED HIGH/LOW TEMPERATURE LIMITS ARE MET, THE SYSTEM SHALL BE ENERGIZED UNTIL THE SPACE TEMPERATURE RISES/FALLS BY 5°.											
3. ELECTRIC HEAT CONTROL:											
A. ELECTRIC STRIP HEAT SHALL ONLY BE ENABLED WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F, UNLESS:											
(1) DURING OCCUPIED PERIODS, THE SPACE TEMPERATURE FALLS 2°F BELOW SPACE SETPOINT FOR 15 MINUTES, ENERGIZE ELECTRIC STRIP HEAT, WHICH IS THE SECOND STAGE OF COOLING, UNTIL OCCUPIED SETPOINT IS REACHED.											
(2) DURING UNOCCUPIED PERIODS: IF SPACE TEMPERATURE FALLS BELOW UNOCCUPIED LOW TEMPERATURE LIMIT AND HEAT PUMP IS RUNNING IN HEATING MODE FOR 20 MINUTES, WITHOUT SUCCESSFULLY RAISING THE SPACE TEMPERATURE BY 5°F, ENERGIZE THE ELECTRIC STRIP HEAT IN ADDITION TO THE HEAT PUMP UNTIL THE SPACE TEMPERATURE INCREASES BY 5°F ABOVE UNOCCUPIED SETPOINT.											
4. OUTSIDE AIR DAMPER CONTROL:											
A. DURING OCCUPIED PERIODS: DAMPER SHALL OPEN TO ITS MINIMUM POSITION (SET BY T&B)											
(1) AS CO <sub>2</sub> LEVELS INCREASE FROM MIN (500 PPM, ADJ) TO MAX (1000 PPM, ADJ), OUTSIDE AIR DAMPER SHALL MODULATE OPEN FROM MINIMUM TO MAXIMUM POSITION.											
B. DURING UNOCCUPIED PERIODS: DAMPER SHALL BE CLOSED											
5. SAFETY SHUTDOWN CONTROL: THE UNITS SHALL RUN SUBJECT TO SHUTDOWN BY THE FOLLOWING SAFETIES:											
A. INTERNAL SAFETIES (AIR COIL LOW TEMP, HIGH PRESSURE SWITCH, ETC.)											
B. CONDENSATE PAN FLOAT SWITCH IN THE AUXILIARY DRAIN PAN.											
C. SMOKE DETECTOR OR SIGNAL FROM THE CENTRALIZED FIRE ALARM SYSTEM THROUGH AN ADDRESSABLE RELAY.											
CONTRACTOR SHALL PROVIDE A CENTRAL CONTROLLER OR CONTROL PANEL THAT ALLOWS THE CONNECTION OF ALL UNIT THERMOSTATS TO BE MONITORED REMOTELY BY THE FACILITY MAINTENANCE STAFF.											

AIR DEVICE SCHEDULE											
MARK	CD	CFM	BASIS OF DESIGN: TITUS TDC-AA								NOTES
CFM	0-95	96-175	175-240	241-280	281-380	381-470	471-650	471-535	536-740	741-925	
GRILLE FACE SIZE	6x6	9x9	9x9	12x12	12x12	15x15	18x18	18x18	18x18	18x18	
DUCT CONNECTION	60	70	80	90	100	120	140	120	140	160	
MARK	RG	CFM	BASIS OF DESIGN: TITUS 350FL								
CFM	0-110	111-220	221-350	351-525	526-730	731-970	971-1240	1241-1500	1501-1850	1851-2250	
GRILLE FACE SIZE	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24	
DUCT CONNECTION	60	80	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24	
MARK	SW	CFM	BASIS OF DESIGN: TITUS 300FS								
CFM	0-150	151-220	221-300	301-340	341-400	401-440	441-520	521-600			
GRILLE FACE SIZE	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12			
DUCT CONNECTION	80	10x6	12x6	14x6	12x8	18x6	22x6	12x12			

**PROVIDE AIR DEVICE WITH THE FOLLOWING OPTIONS:**

- ① REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES. PROVIDE AIR DEVICE WITH 24"x24" LAY-IN PANEL FOR GRILLES IN LAY-IN CEILING.
- ② PROVIDE AIR DEVICE WITH INTEGRAL BALANCING DAMPER.
- ③ PROVIDE AS 4-WAY THROW UNLESS INDICATED OTHERWISE.
- ④ AIR DEVICE SHALL BE PAINTED OFF WHITE.
- ⑤ TRANSITION DUCT FROM SIZE INDICATED TO AIR DEVICE CONNECTION SIZE.

**HVAC GENERAL NOTES:**

1. INSTALL ALL WORK IN COMPLIANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2021 INTERNATIONAL MECHANICAL CODE, AND THE 2013 ASHRAE 90.1 ENERGY CONSERVATION CODE.
2. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO BEGINNING ANY WORK.
3. INSTALL OUTDOOR UNITS ON 4" THICK CONCRETE PADS EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT. PLASTIC OR FIBERGLASS EQUIPMENT PADS SHALL NOT BE USED. SECURE UNITS TO CONCRETE PAD WITH A MINIMUM OF TWO "REDHEAD" TYPE ANCHORS.
4. DUCT CONSTRUCTION SHALL BE PER THE LATEST REQUIREMENTS OF NFPA 90A AND 90B, SMACNA AND ASHRAE AND SHALL MEET OR EXCEED THEIR REQUIREMENTS FOR SUPPORT AND REINFORCEMENT.
5. REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 0.5". ALL INSULATION INSTALLED AT BUILDING EXTERIOR SHALL BE PAINTED WITH TWO COATS OF WHITE UV PROTECTIVE PAINT. ADDITIONALLY PIPING INSULATION AT BUILDING EXTERIOR SHALL BE COVERED WITH CORRUGATED ALUMINUM.
6. BRANCH SUPPLY AND RETURN DUCT RUNOUTS SHALL BE GALVANIZED SNAP-LOCK WITH ALL JOINTS AND SEAMS SEALED WITH MASTIC. TRAVERSE JOINTS SHALL BE CONNECTED WITH SHEET METAL SCREWS MINIMUM 6" ON CENTER. ALL GALVANIZED DUCT SHALL BE INSULATED WITH 2" THICK, 1 POUND DENSITY WRAP INSULATION. INSULATION TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
7. FLEXIBLE DUCT TO SUPPLY GRILLES SHALL NOT EXCEED 8'-0". ROUTE EXTERNALLY INSULATED RIGID SNAP LOCK DUCT TO WITHIN 8'-0" OF GRILLE.
8. EQUIPMENT PROVIDED AND INSTALLED ON THIS PROJECT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS INDICATED IN THE SCHEDULE.
9. INTAKE LOUVERS SHALL BE EQUAL TO RUSKIN ELF6375DXD, COLOR TO BE SELECTED BY THE ARCHITECT.
10. DUCT CONSTRUCTION SHALL BE G-90 GALVANIZED SHEET METAL. DUCT SEALING SHALL BE CLASS "A", ALL JOINTS, SEAMS, AND PENETRATIONS SHALL BE BRUSHED WITH 2 COATS OF WATER BASED MASTIC. THE DUCT SEAL SHALL MEET OR EXCEED PRESSURE CLASS 2<sup>1</sup>.
11. ALL SHEET METAL DUCT SHALL BE EXTERNALLY INSULATED WITH MINIMUM R-8.0 DUCT WRAP WITH AN FSK JACKET. JOINTS AND SEAMS SHALL OVERLAP 2" AND SHALL BE STAPLED AT 6" ON CENTER. ALL INSULATION JACKET JOINTS AND SEAMS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE. INSULATION APPLIED TO DUCT DIMENSIONS GREATER THAN 24" SHALL BE SECURED ON THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS AT 18" ON CENTER.
12. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS. CONTRACTOR SHALL INSTALL LOUVERS PER MANUFACTURERS RECOMMENDATIONS AND DETAILS INDICATED ON THE ARCHITECTURAL PLANS.
13. ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
14. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. DUCT SHALL NOT ROUTE OVER ELECTRICAL PANELS.
15. OFFSET AND TRANSITION DUCT AS NECESSARY TO AVOID STRUCTURAL MEMBERS OR EQUIPMENT CONNECTION SIZES. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL DUCT CONNECTION TO MOTORIZED EQUIPMENT.
16. PROVIDE EACH HVAC SYSTEM WITH A 7 DAY PROGRAMMABLE WI-FI THERMOSTAT WITH BATTERY BACKUP AND UNOCCUPIED HOURS SET BACK CAPABILITIES.

**2021 IMC OUTDOOR AIR VENTILATION REQUIREMENT CALCULATIONS**

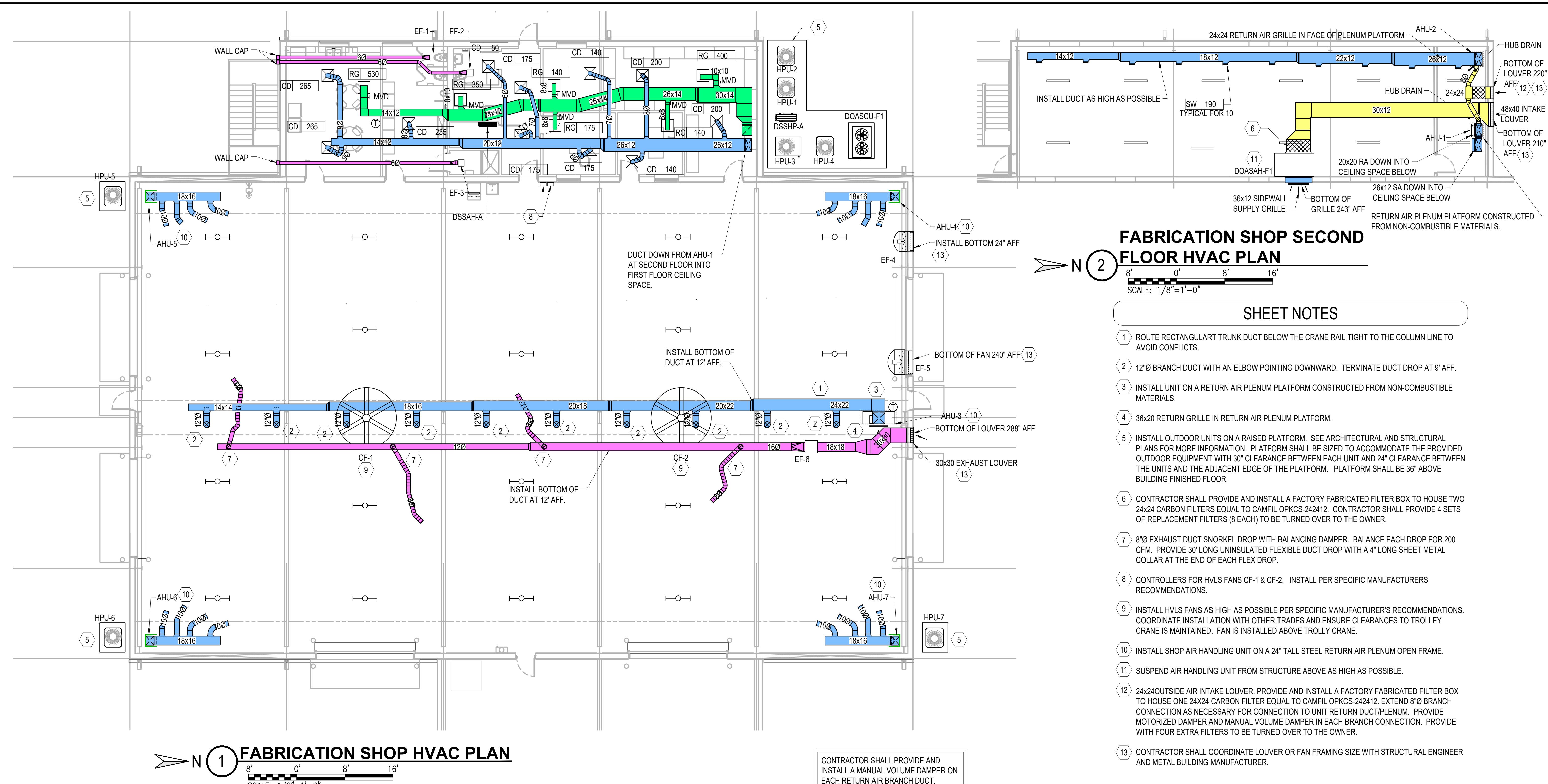
APPLICATION	OCCUPANCY (PERSONS AND/OR AREA)	X	CFM/PERSON REQUIREMENT	X	CFM/SF REQUIREMENT	=	TOTAL OUTSIDE AIR REQUIRED
OFFICE	8 PEOPLE 1,600 SF	X	5.0	X	0.06	=	136

**100% OUTSIDE AIR SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE**

MARK	AIR DATA				COOLING CAPACITY				HOT GAS REHEAT		ELECTRIC REHEAT		FILTER		COMPRESSOR (RLA)	MINIMUM EFFICIENCY EER	ELECTRICAL DATA						NOTES
TOTAL (CFM)	OUTSIDE (CFM)	EXTERNAL STATIC PRESSURE (in of H<sub>2</sub>O)	MOTOR (HP)	EDB (F)	EWB (F)	LDB (F)	LWB (F)	AMBIENT (F)	TOTAL BTUH	EDB (F)	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (kW)	LDB (F)	TYPE	MIN MERV	INDOOR	OUTDOOR	INDOOR				

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																												
MARK AHU/ HPU	AIR DATA				COOLING CAPACITY					ELECTRIC REHEAT		FILTER		COMPRESSOR (RLA)	OUTDOOR FAN (FLA)	MINIMUM HSPF/COP	MINIMUM SEER	ELECTRICAL DATA								NOTES		
	TOTAL (CFM)	OUTSIDE (CFM)	EXTERNAL STATIC PRESSURE (in of H <sub>2</sub> O)	MOTOR (HP)	EDB (F)	EWB (F)	AMBIENT (F)	SENSIBLE BTUH	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (kW)	TYPE	MIN MERV			OUTDOOR UNIT		INDOOR UNIT		OUTDOOR UNIT		INDOOR UNIT						
																VOLOTS	Hz	PHASE	VOLOTS	Hz	PHASE	MCA (AMPS)	MCP (AMPS)	MCA (AMPS)	MCP (AMPS)			
1	1,900	140	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
2	1,900	140	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
3	3,800	0	0.5	1.5	80	67	95	86,900	119,500	2	18.4 + 13.8	1"	8	2@7.7	2@0.8	3.4 COP	11.0 EER	460	60	3	460	60	3	19.0	25	56.4	60	1, 2, 3, 6, 7
4	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
5	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
6	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
7	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
NOTES																												
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE ALL REQUIRED SIGNAGE FOR REFRIGERANT SAFETY NOTIFICATIONS. SEE PLAN NOTES FOR FRAGRANCE DIFFUSER REQUIREMENTS.																											
2	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED SINGLE POINT POWER DISCONNECT TO SERVE BOTH THE FAN MOTOR AND STRIP HEAT (TWO WIRE).																											
3	PROVIDE AND INSTALL AIR HANDLING UNIT WITH RETURN DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR. COORDINATE INSTALLATION BETWEEN MECHANICAL AND FIRE ALARM CONTRACTOR FOR PROPER PLACEMENT. SMOKE DETECTOR SHALL BE UL LISTED AND ADDRESSABLE.																											
4	BASIS OF DESIGN: CARRIER 27SCA/FG5A SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											
5	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED DUAL POINT POWER CONNECTION TO SERVE THE FAN MOTOR AND STRIP HEAT (FOUR WIRE DUAL CIRCUIT SINGLE PHASE).																											
6	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED POWER CONNECTION DISCONNECT TO SERVE THE FAN MOTOR AND STRIP HEAT (3 PHASE).																											
7	BASIS OF DESIGN: CARRIER 38AUQ/40RFQ DUAL STAGE SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											

FAN SCHEDULE															
MARK FAN	FLOW AIR (CFM)	PRESSURE STATIC (in of H <sub>2</sub> O)	DRIVE TYPE	FAN TYPE	FAN SERVICE	INTERLOCK WITH	MAXIMUM RPM	MAXIMUM SONES	MOTOR		ELECTRICAL DATA			NOTES	
									WATTS	HORSE POWER	VOLOTS	Hz	PHASE		
EF-1	210	0.25	DIRECT	CEILING	RESTROOM	LIGHTS	1,200	3.0	130	N/A	120	60	1	1, 2, 8	
EF-2	70	0.25	DIRECT	CEILING	RESTROOM	LIGHTS	1,200	3.0	130	N/A	120	60	1	1, 2, 3	
EF-3	50	0.25	DIRECT	CEILING	SHOWER	WALL SWITCH	1,200	3.0	130	N/A	120	60	1	1, 2, 3	
EF-4	1,100	0.35	DIRECT	SIDEWALL	PLASMA TABLE	WALL SWITCH	1,140	12.2	N/A	1/6	208	60	1	1, 4, 6	
EF-5	9,500	0.35	DIRECT	SIDEWALL	FAB SHOP	WALL SWITCH	860	22.0	N/A	1-1/2	460	60	3	1, 4, 6	
EF-6	800	0.5	DIRECT	INLINE	FAB SHOP SNORKEL	WALL SWITCH	1,000	12.0	N/A	1/3	208	60	1	1, 4, 6	
CF-1 & -2	N/A	N/A	HVLS DIRECT	SUSPENDED	APPARATUS BAY	WALL MOUNTED SPEED CONTROLLER	200	N/A	N/A	1.0	460	60	3	1, 5	
NOTES															
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.														

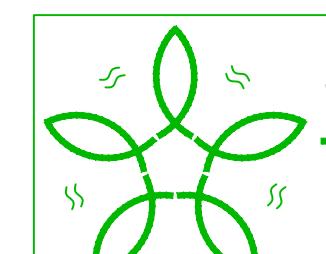


## FABRICATION SHOP HVAC PLAN

8' 0' 8' 16'

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

CONTRACTOR SHALL PROVIDE AND  
INSTALL A MANUAL VOLUME DAMPER ON  
EACH RETURN AIR BRANCH DUCT.



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1-28-2026

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thompson  
ENGINEERING



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

HVAC PLAN

For: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: M200.1

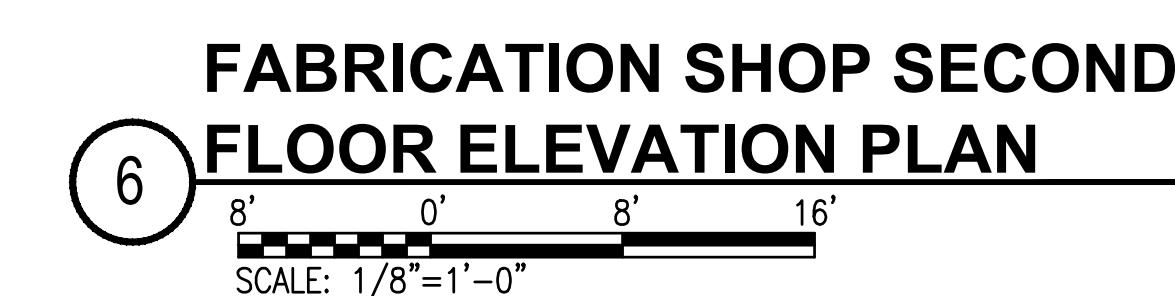
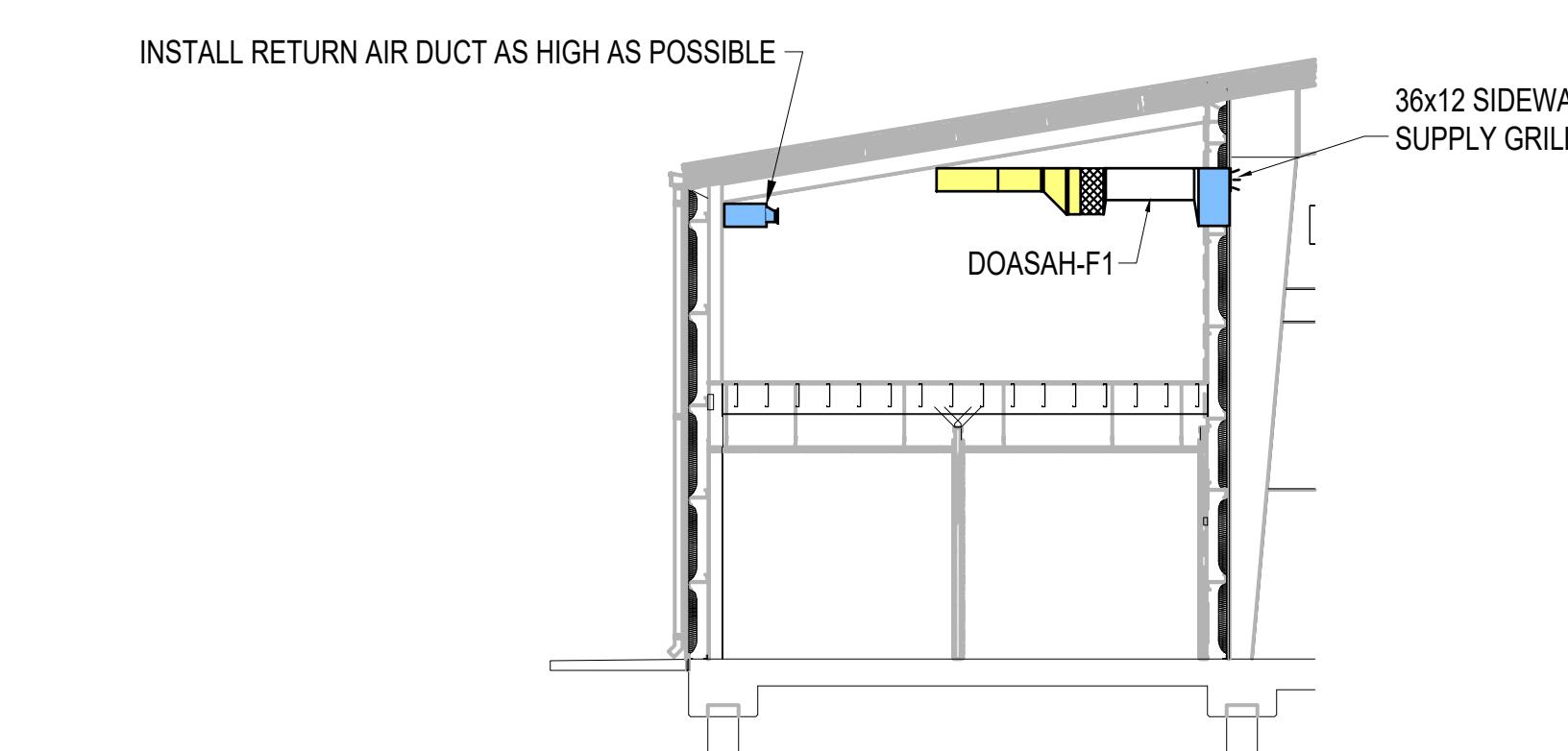
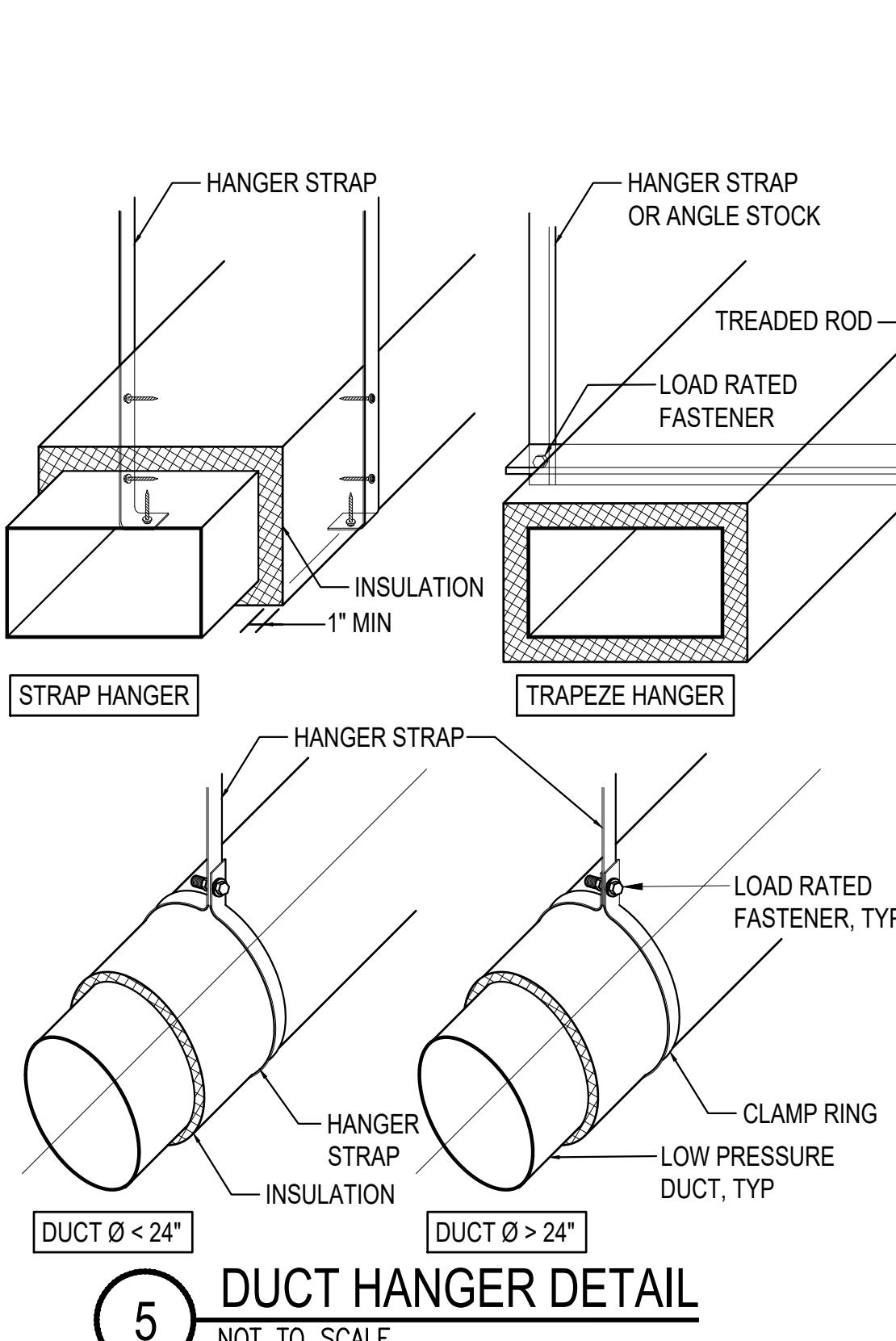
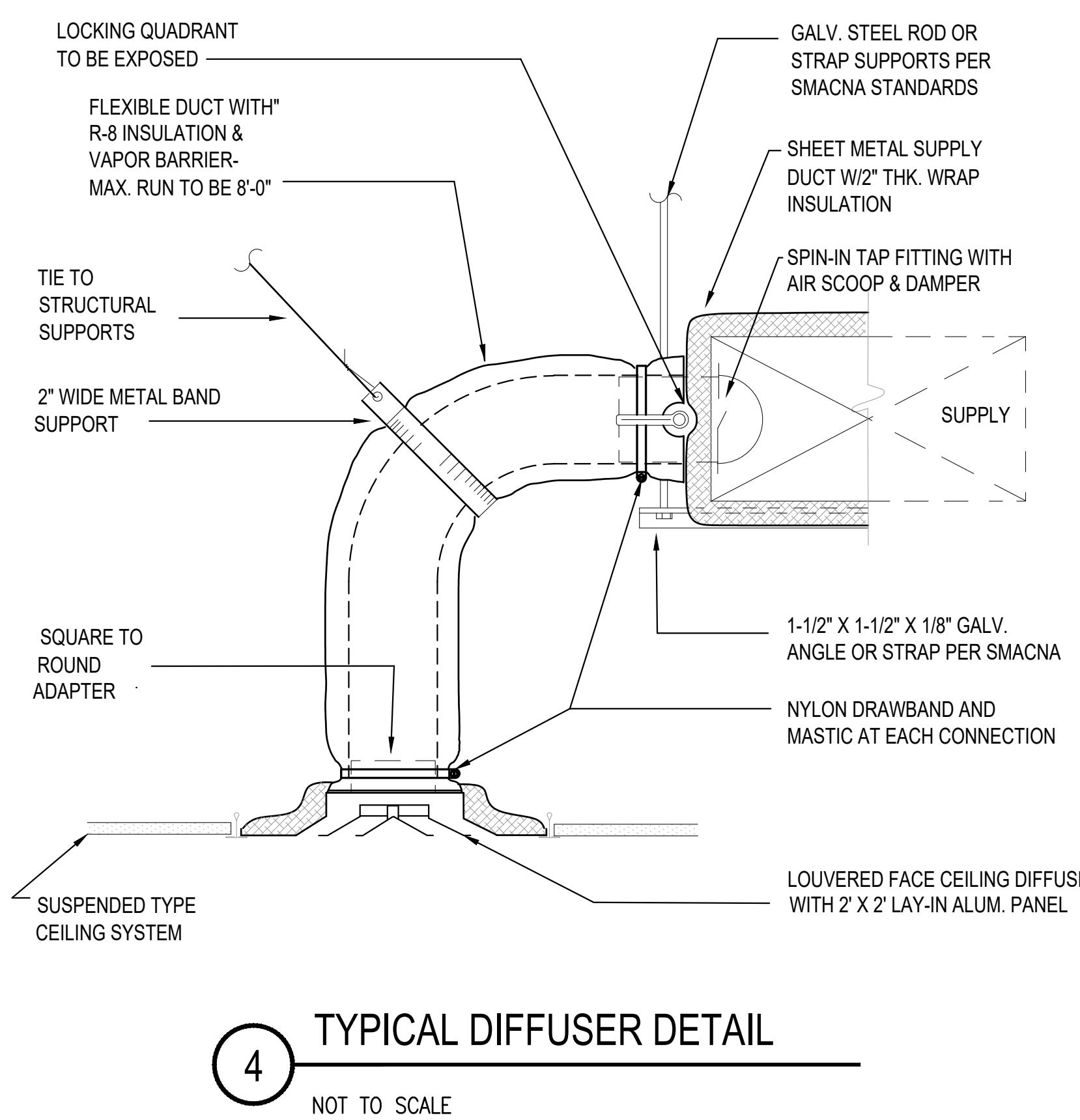
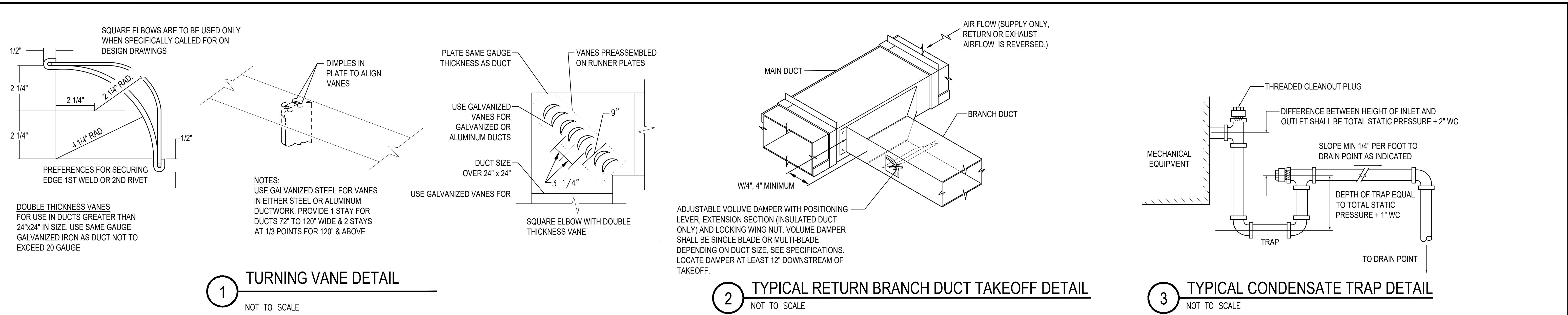
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APTIM  
PORT SERVICES, LLC

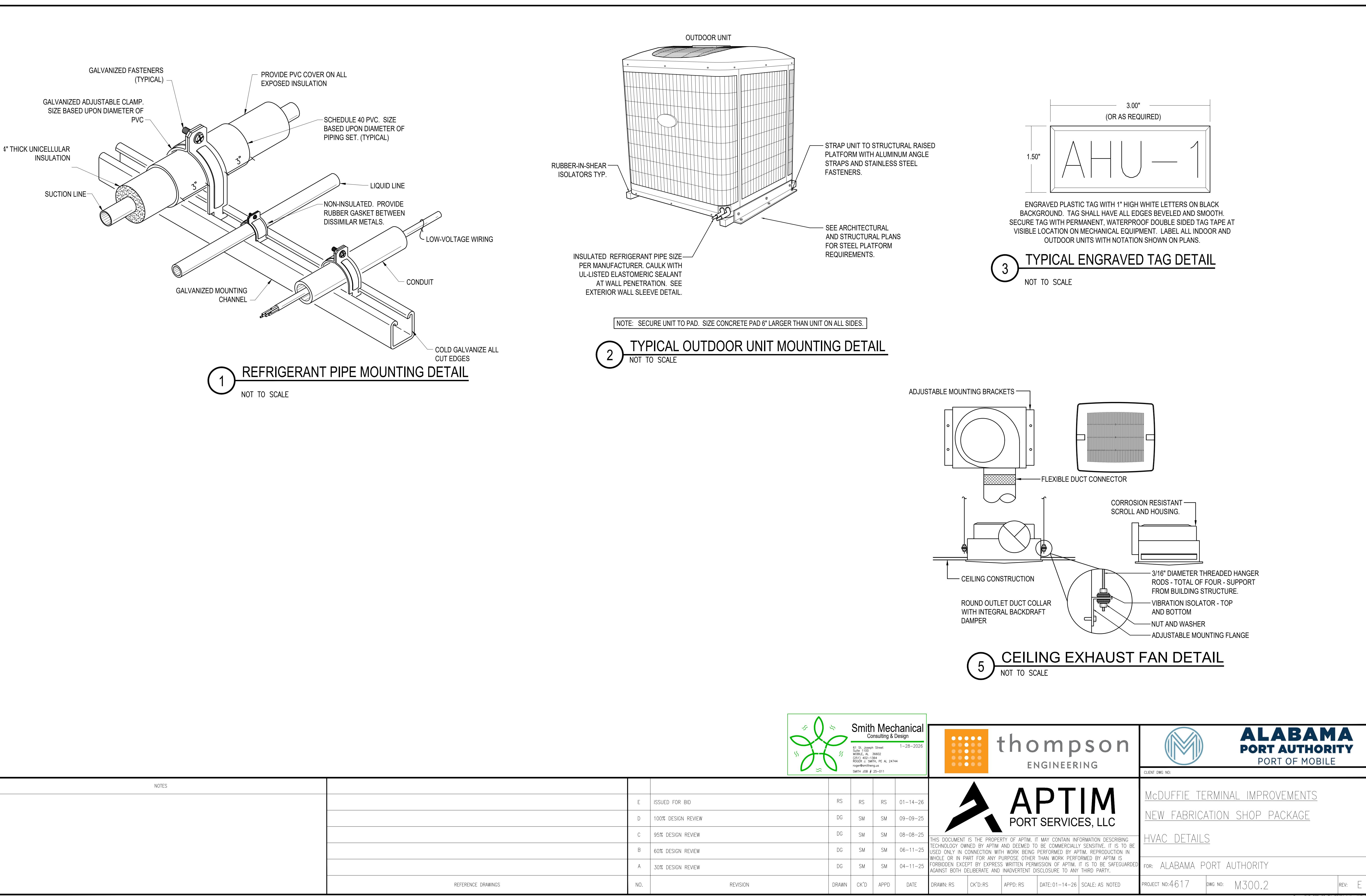
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DRAWN: RS CK'D: RS APPD: RS DATE: 01-14-26 SCALE: AS NOTED

NOTES					
	E	ISSUED FOR BID	RS	RS	RS 01-14-26
	D	100% DESIGN REVIEW	DG	SM	SM 09-09-25
	C	95% DESIGN REVIEW	DG	SM	SM 08-08-25
	B	60% DESIGN REVIEW	DG	SM	SM 06-11-25
	A	30% DESIGN REVIEW	DG	SM	SM 04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD DATE



# ALABAMA PORT AUTHORITY



## GENERAL PLUMBING NOTES

1. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
2. VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
3. DRAIN, WASTE, AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 POLY VINYL CHLORIDE (PVC) SYSTEM "ASTM D 2665". NO FOAM CORE SHALL BE USED.
4. DOMESTIC WATER PIPING SHALL BE ASTM B 88, TYPE K, WITH ANSI B16.18 OR ANSI B16.22 SOLDER JOINT FITTINGS USING SILVER SOLDER AND FLUX CONTAINING NOT MORE THAN 0.2 PERCENT LEAD; OR WITH ANSI B16.26 FLARED JOINT FITTINGS. ASTM B 88, TYPE L MAY BE PROVIDED FOR ABOVEGROUND PIPING. SLEEVE SERVICE ENTRANCE AT SLAB. SEAL AROUND PIPING WATER PROOF.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER.
6. COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
7. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
8. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
9. FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
10. PROVIDE STOPS AND WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
11. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
12. INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
13. ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CHASE SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. ALL DOMESTIC WATER PIPING ROUTED EXPOSED BELOW 6'-8" ABOVE FINISH FLOOR SHALL BE PROVIDED WITH A PVC JACKET TO PREVENT DAMAGE TO THE PIPE.
14. PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
15. BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH 2021 INTERNATIONAL PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651.
16. CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.



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**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

PLUMBING SCHEDULES AND NOTES

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: P100.1

REV: E

NOTES									
	E	ISSUED FOR BID		RS	RS	RS			
	D	100% DESIGN REVIEW		DG	SM	SM			
	C	95% DESIGN REVIEW		DG	SM	SM			
	B	60% DESIGN REVIEW		DG	SM	SM			
	A	30% DESIGN REVIEW		DG	SM	SM			
		REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE	DRAWN: RS CK'D: RS APPD: RS DATE: 01-14-26 SCALE: AS NOTED

PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK #	Fixture Type	Connections				REMARKS	Notes
		Waste	Vent	CW	HW		
P-1	FLUSH VALVE WATER CLOSET	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 15" HIGH ELONGATED BOWL, FLOOR MOUNTED FLUSH VALVE TYPE, 1.28 GALLONS PER FLUSH, WITH OPEN FRONT SEAT WITHOUT COVER, AND SLOAN ROYAL FLUSH VALVE. EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH FLUSH HANDLE ON THE APPROACH SIDE OF THE FIXTURE.	
P-1A	FLUSH VALVE WATER CLOSET (HC)	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 16-1/8" HIGH ELONGATED BOWL, FLOOR MOUNTED FLUSH VALVE TYPE, 1.28 GALLONS PER FLUSH, WITH OPEN FRONT SEAT WITHOUT COVER, AND SLOAN ROYAL FLUSH VALVE. EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH FLUSH HANDLE ON THE APPROACH SIDE OF THE FIXTURE.	①
P-2	FLUSH VALVE URINAL (HC)	3"	1-1/2"	3/4"	-	VIT. CHINA, WALL HUNG WITH FLOOR MOUNTED CARRIER. PROVIDE WITH SLOAN ROYAL FLUSH VALVE 0.5 GPF VALVE. FIXTURE EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS.	①
P-3	LAVATORY (HC)	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WHITE, WALL MOUNTED LAVATORY. PROVIDE WITH SINGLE LEVER ADA FAUCET, 17 GA. P-TRAP, GRID DRAIN, FLOOR MOUNTED CARRIER, FLEXIBLE SUPPLIES AND STOPS, AND ADA TRAP INSULATION EQUAL TO TRUBRO. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING VALVE SET FOR 105°F. BASIS OF DESIGN KOHLER CHESAPEAKE SERIES. INSTALL PER ADA REQUIREMENTS.	①
P-3A	WASH STATION	1-1/2"	1-1/2"	1/2"	1/2"	16 GAUGE STAINLESS STEEL WALL MOUNTED 48"x17 1/2" SINK WITH TWO DRILL HOLES FOR SENSOR FAUCETS. PROVIDE SINGLE HOLE WALL MOUNT 1 GPM FAUCET WITH POLISHED CHROME PLATED BRASS BODY, 4 1/8" RIGID GOOSNECK, 2.2 GPM VANDAL RESISTANT AERATOR, PLUG IN AC TRANSFORMER, MECHANICAL TEMPERATURE MIXING VALVE WITH CHECK VALVES, AND TWO FLEXIBLE STAINLESS STEEL SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS. PROVIDE WITH FLEXIBLE SUPPLIES AND STOPS. BASIS OF DESIGN REGENCY #600HSMSE1848 AND T&S BRASS EC-3101. INSTALL PER ADA REQUIREMENTS	①
P-4	SHOWER	2"	1-1/2"	1/2"	1/2"	60x36 SHOWER. PROVIDE WITH DELTA PRESSURE BALANCED SHOWER VALVE AND ADJUSTABLE SPRAY HEAD. COORDINATE INSTALLATION WITH OTHER TRADES.	
P-5	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	22x25x7" DEEP SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELYKAY. PROVIDE WITH DELTA SINGLE LEVER FAUCET WITH PULL OF SPOUT. PROVIDE WITH FLEXIBLE SUPPLIES, STOPS, P-TRAP, AND BASKET STRAINER.	
P-6	ICE MAKER BOX	-	-	1/2"	-	RECESSED ICE MAKER BOX WITH WATTER HAMMER ARRESTOR AND 1/4 TURN STOP.	
P-7	SERVICE SINK	2"	2"	1/2"	1/2"	SERVICE SINK EQUAL TO FIAT FL-1 WITH WALL BRACKET AND LEG KIT. PROVIDE WITH DECK MOUNTED T&S BRASS B-1110-XS-WH4 FAUCET, P-TRAP, FLEXIBLE SUPPLIES, AND STOP. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.	
P-8	EMERGENCY SHOWER AND EYE WASH	3"	2"	3/4"	3/4"	EMERGENCY SHOWER AND EYE WASH EQUAL TO GUARDIAN MODEL G1950BC. PROVIDE WITH GB6040 MIXING VALVE. INSTALL EQUIPMENT PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.	
MV-A	MIXING VALVE	-	-	3/4"	3/4"	MIXING VALVE EQUAL TO SYMONS. MINIMUM FLOW SHALL BE 0.5 GPM. DESIGN FLOW SHALL BE 5.5 GPM AT A 10 PSI PRESSURE DROP. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS FOR A RECIRCULATED SYSTEM.	
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-	FREEZE PROOF HOSE BIBB WITH VACUUM BREAKER. PROVIDE AS RECESSED BOX TYPE WITH HINGED COVER.	

① HANDICAPPED FIXTURES SHALL BE INSTALLED PER THE LATEST REQUIREMENTS OF ADA.

ELECTRIC WATER HEATER SCHEDULE								
MARK EWH	TANK CAPACITY (GALLONS)	MINIMUM EFFICIENCY	TEMPERATURE SETPOINT (F)	HEATING CAPACITY (kW)	Volts	Hz	Phase	Recirculated System
A	40	0.9	119	4.5	208	60	1	YES
NOTES								
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.							
2	PROVIDE WITH EXPANSION TANK, HEAT TRAPS ON CONNECTIONS, T&P RELIEF VALVE, AUXILIARY DRAIN PAN, ISOLATION VALVES WITH DI-ELECTRIC UNIONS ON HOT AND COLD CONNECTIONS. PROVIDE WATER HEATER AS LOW BOY TYPE.							
3	PROVIDE WITH MASTER MIXING VALVE AND RECIRCULATION PUMP. SEE DETAIL AND MANUFACTURER'S REQUIREMENTS FOR SPECIFIC PIPING REQUIREMENTS.							
4	BASIS OF DESIGN: BRADFORD WHITE MODEL NUMBER RE330S6. SUBMIT ALTERNATE MANUFACTURER'S FOR PRIOR APPROVAL.							

HOT WATER RECIRCULATION PUMP SCHEDULE								
MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	Volts	Hz	Phase
A	AQUASTAT	2	15	STAINLESS STEEL	1/5	120	60	1
NOTES								
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.							
2	PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 105°F.							
3	PROVIDE WITH 24 HOUR TIME CLOCK. PUMP SHALL OPERATE DURING OCCUPIED HOURS, ELSE IT SHALL BE OFF.							
4	PUMP SHALL BE SUITABLE FOR POTABLE WATER USE.							



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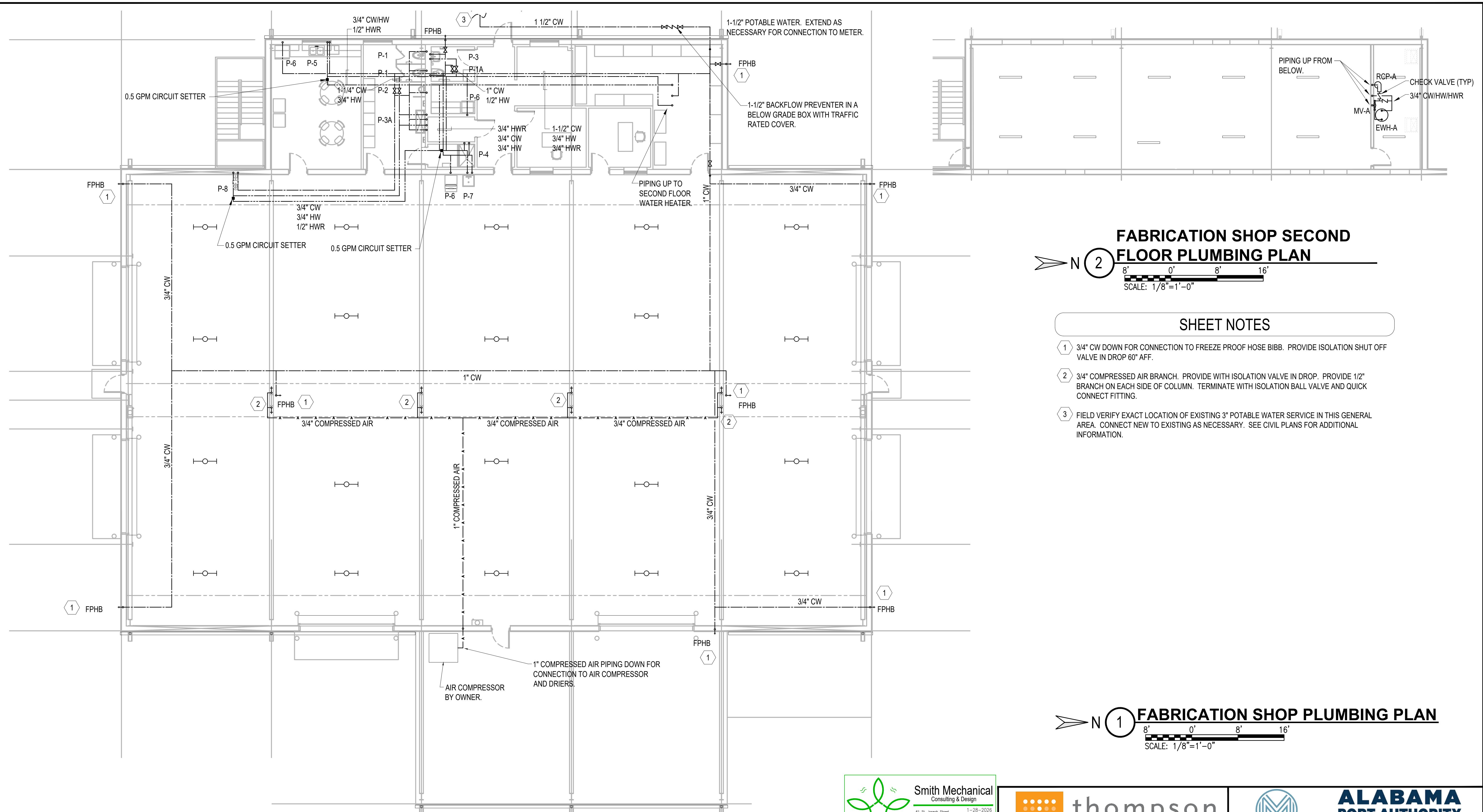
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:  
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
PLUMBING SCHEDULES AND NOTES  
For: ALABAMA PORT AUTHORITY  
PROJECT NO: 4617 DWG NO: P100.2 REV: E  
Form: CMS-830-00-FM-02104 APTIM ANSI Dwg

NOTES										
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				A	30% DESIGN REVIEW	DG	SM	04-11-25		
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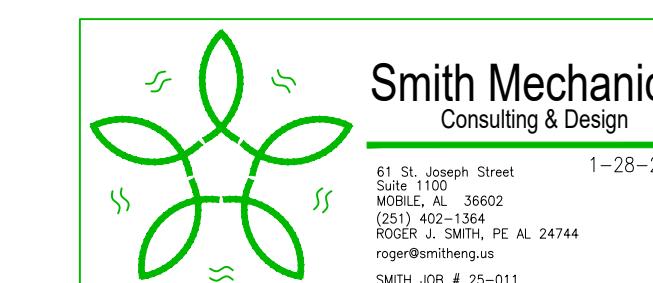
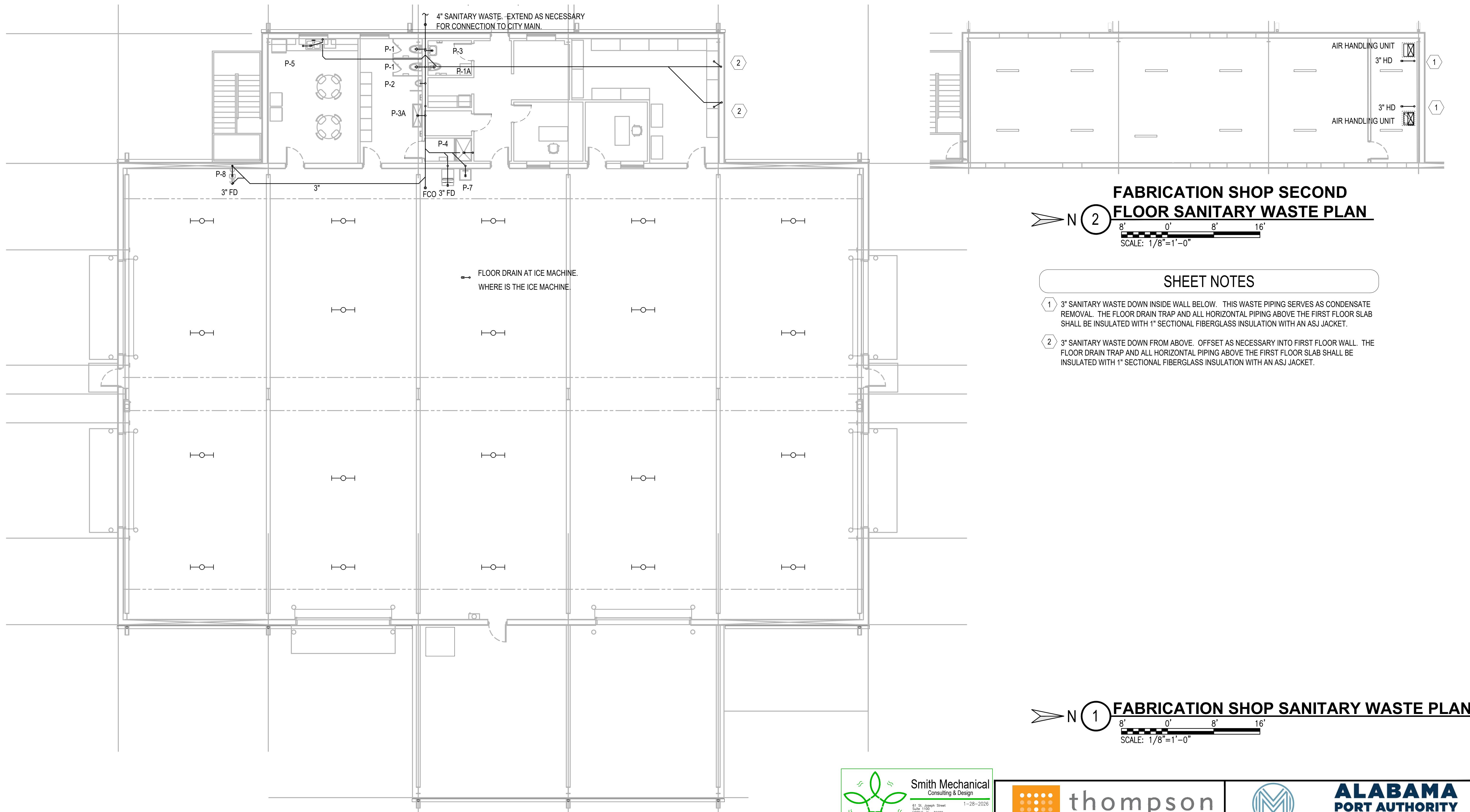
APTIM  
PORT SERVICES, LLC



McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
PLUMBING PLAN  
For: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: P200.1 REV: E

NOTES					
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PORT OF MOBILE

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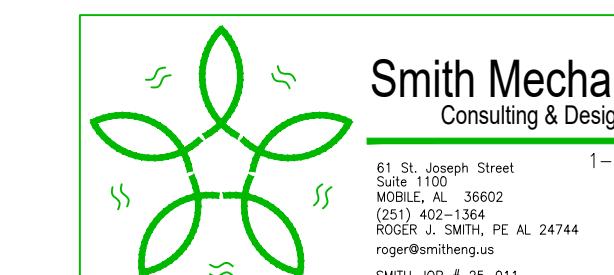
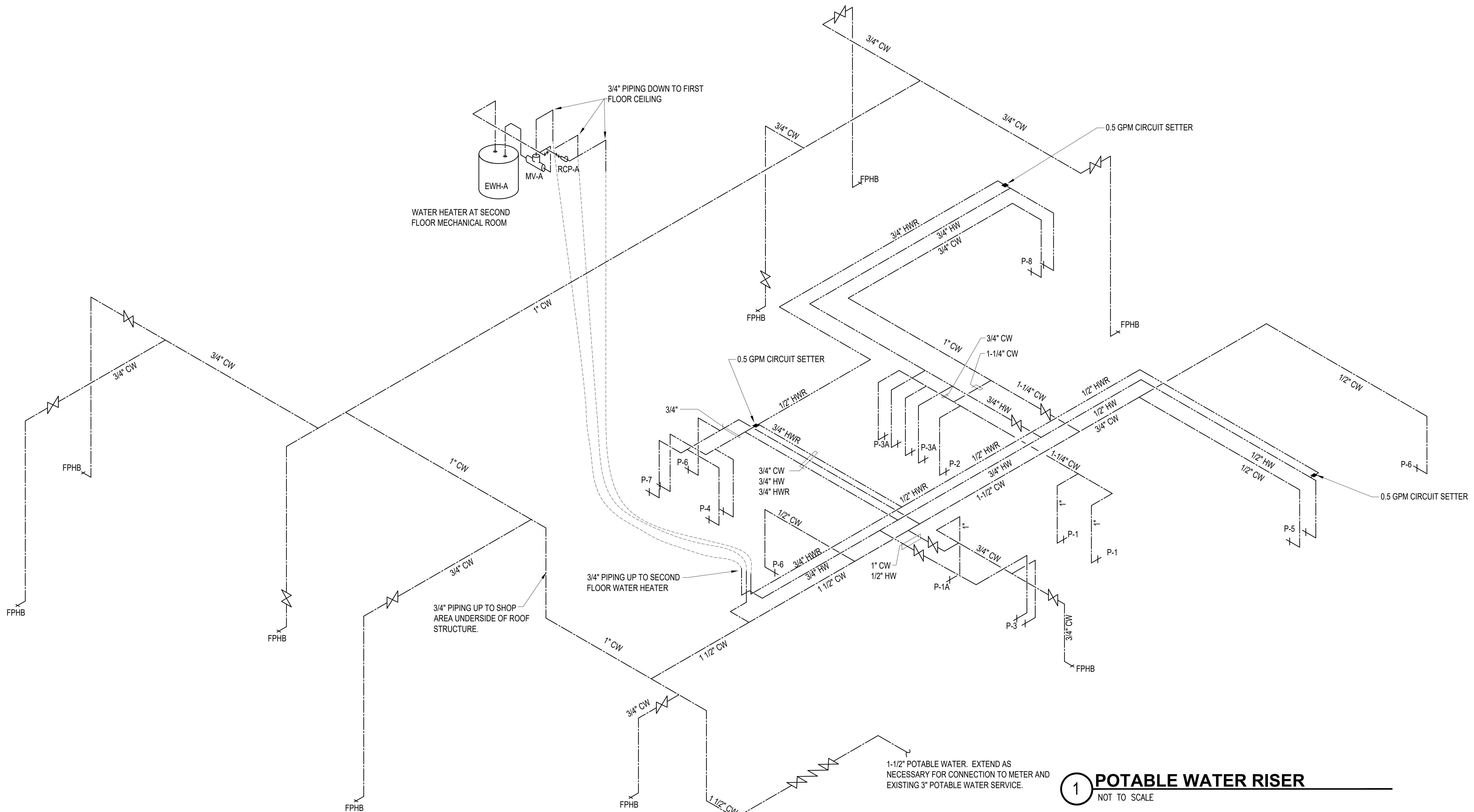
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
SANITARY WASTE PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: P200.2 REV: E

NOTES

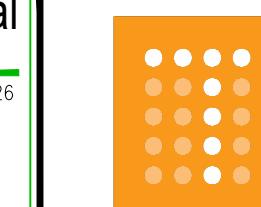
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				DATE		
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				DATE: 01-14-26	SCALE: AS NOTED	





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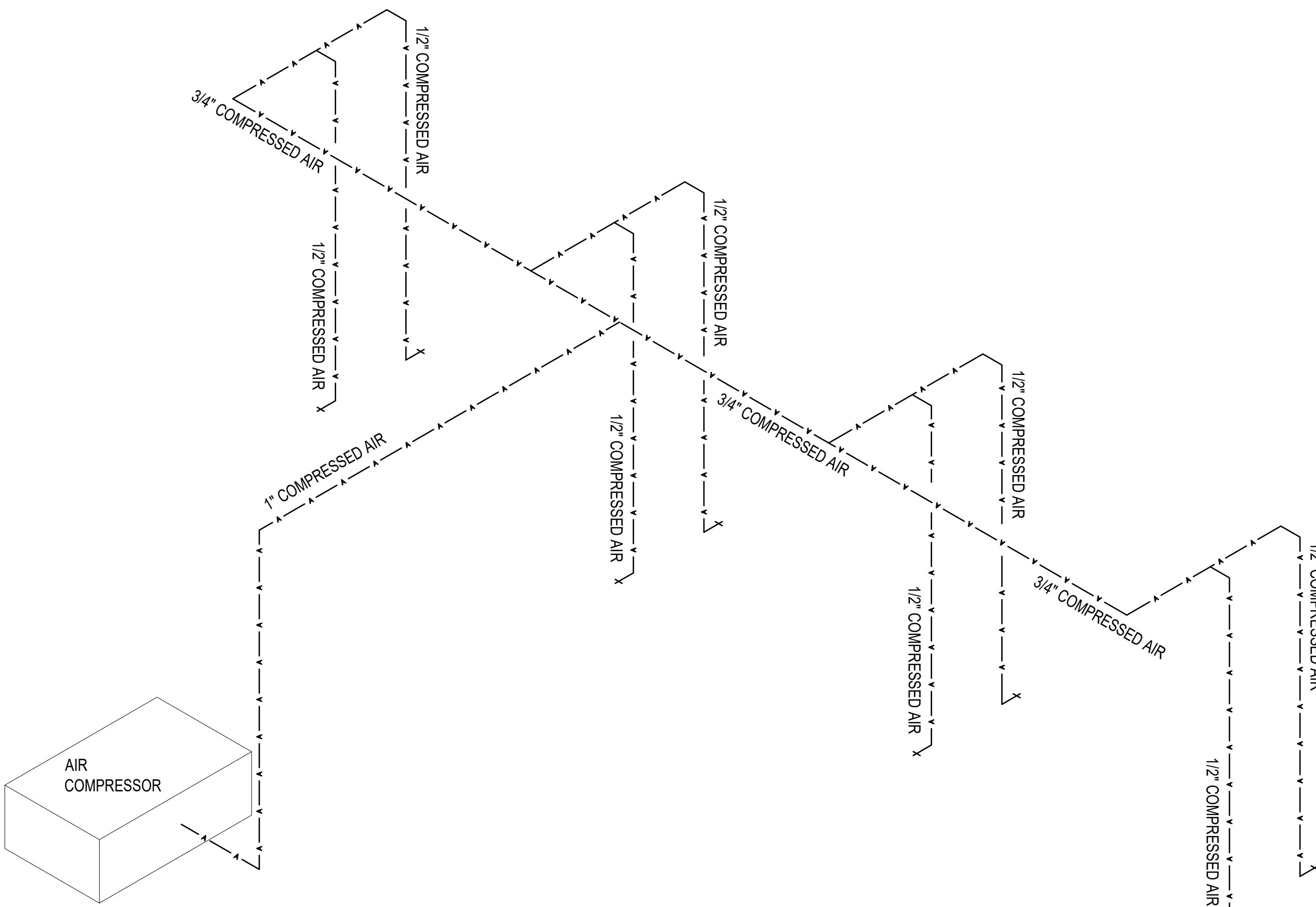
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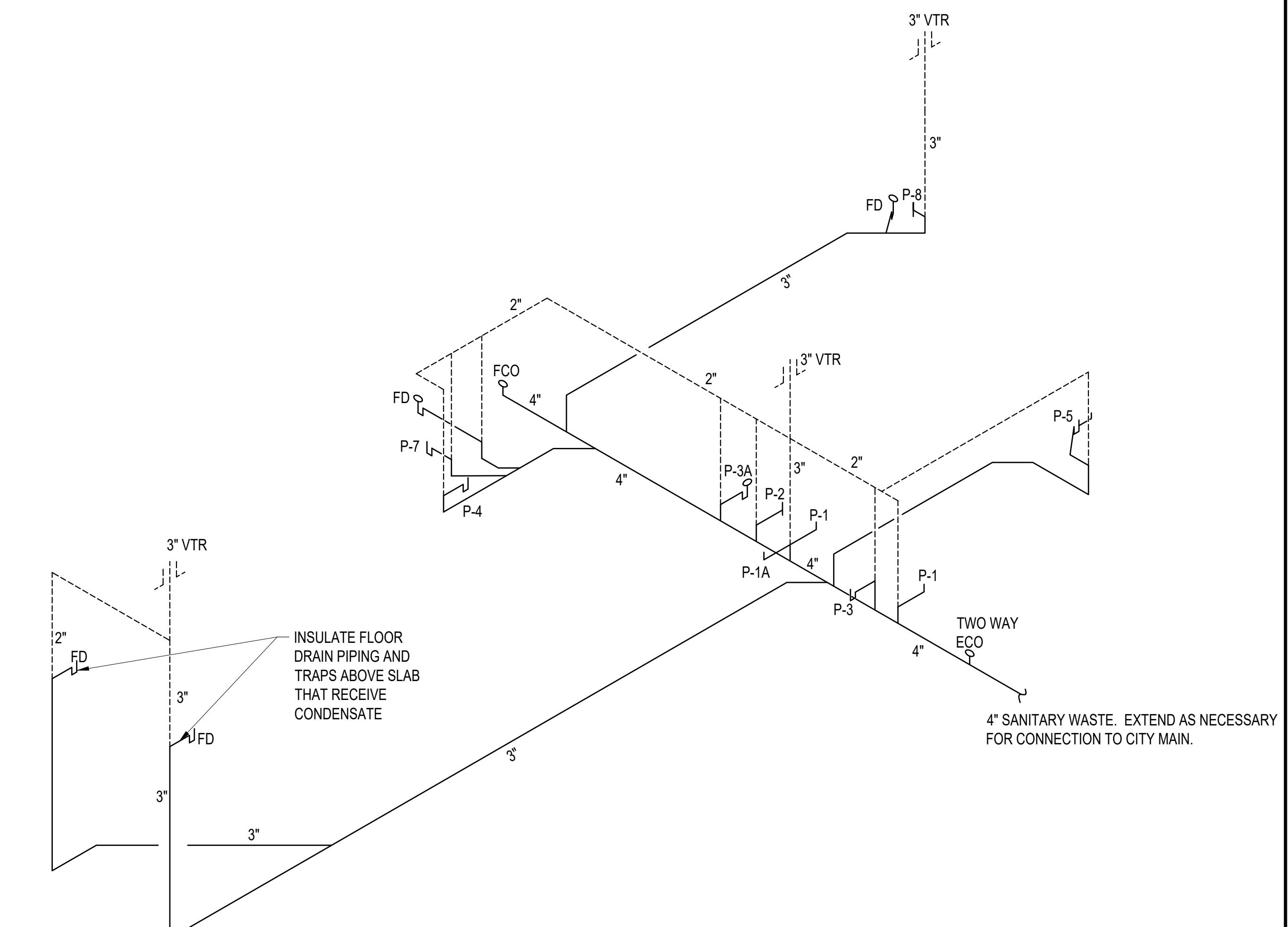
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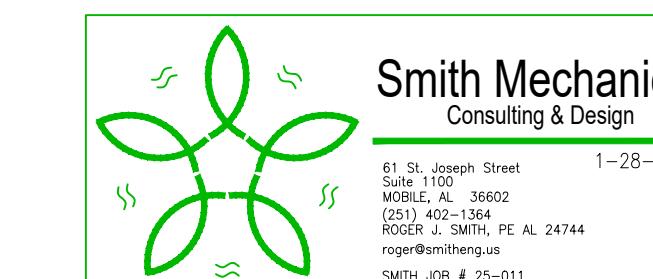
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NOT TO SCALE



2 SANITARY WASTE RISER

NOT TO SCALE



CLIENT DWG NO:



McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

SANITARY WASTE AND COMPRESSED AIR RISER

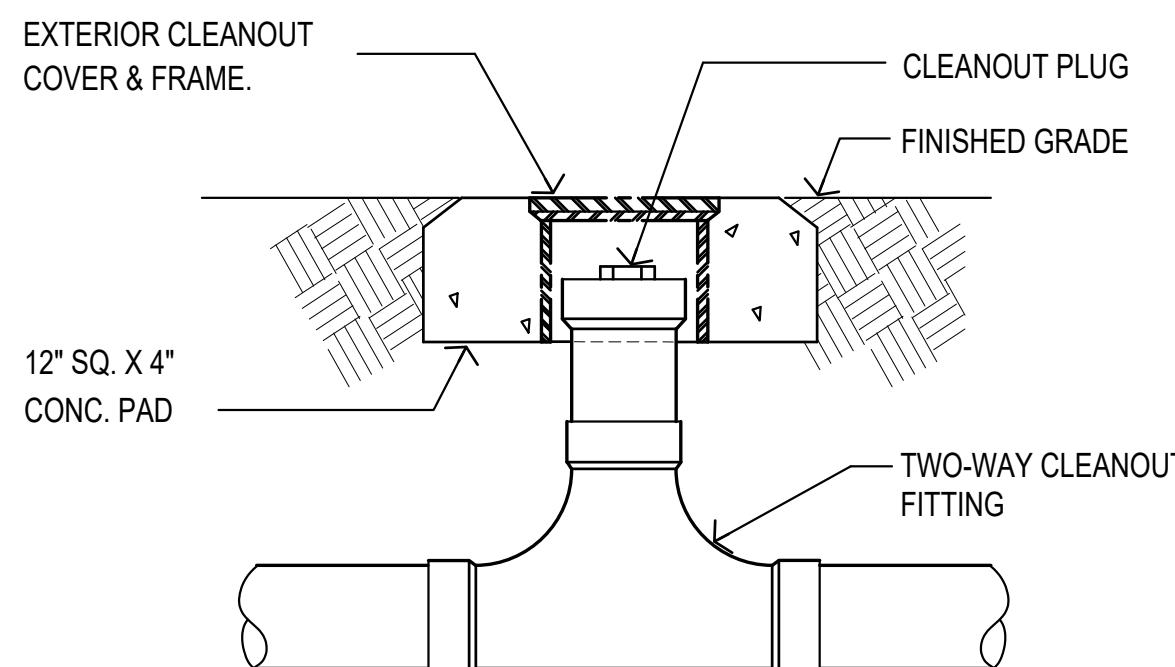
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: P400.1

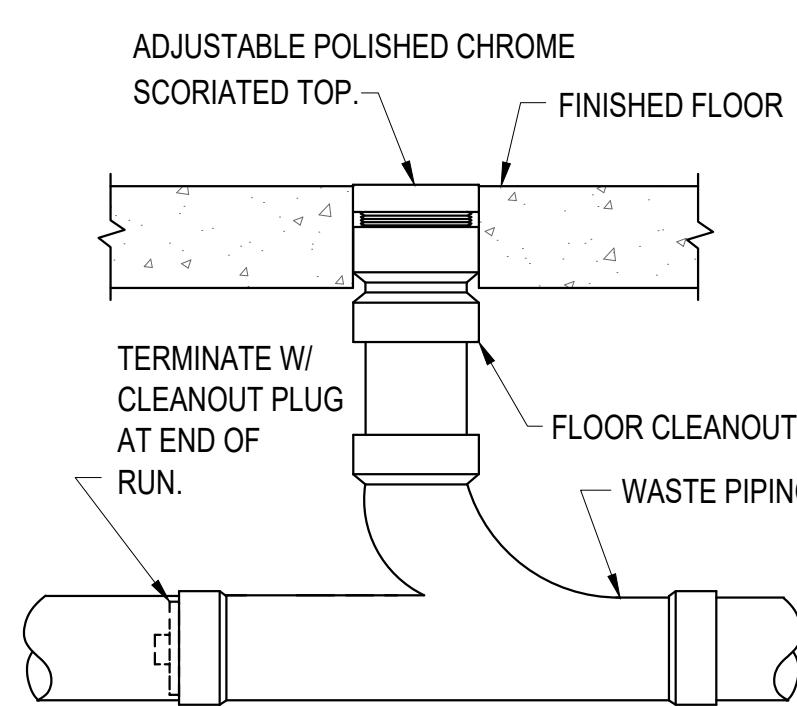
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NOTES

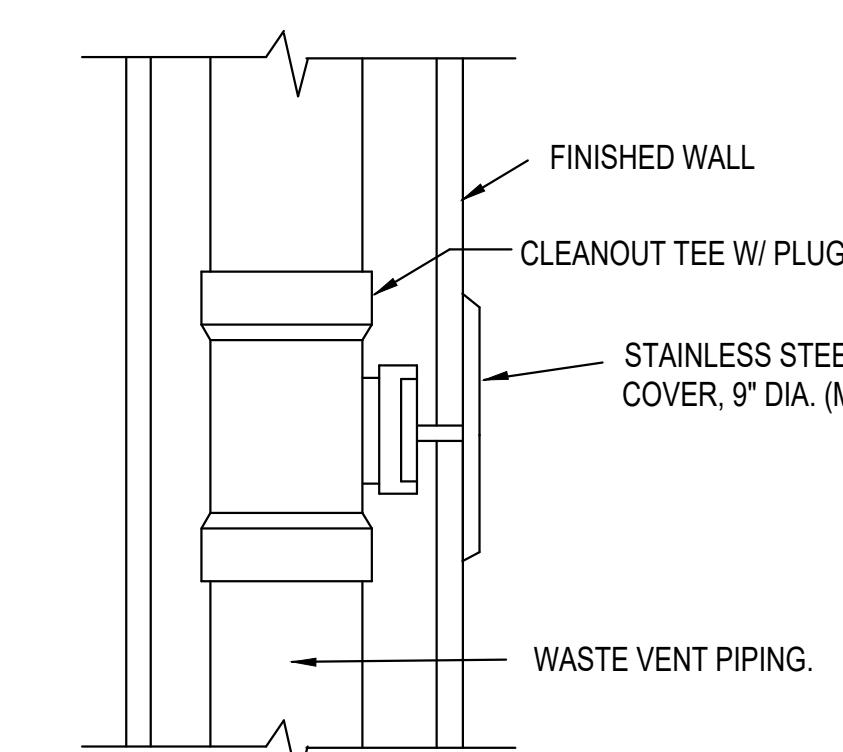
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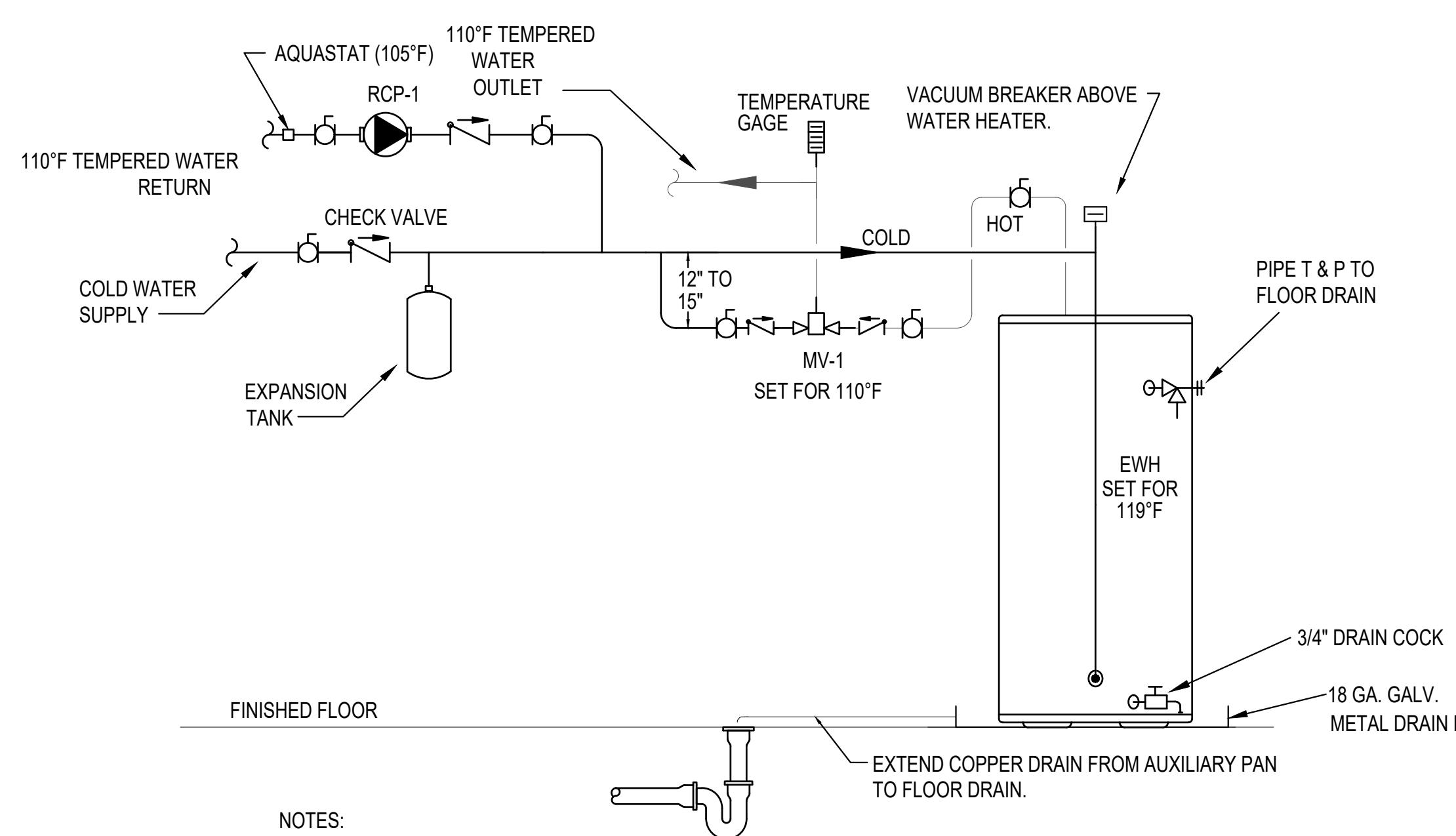
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2 FLOOR CLEANOUT DETAIL  
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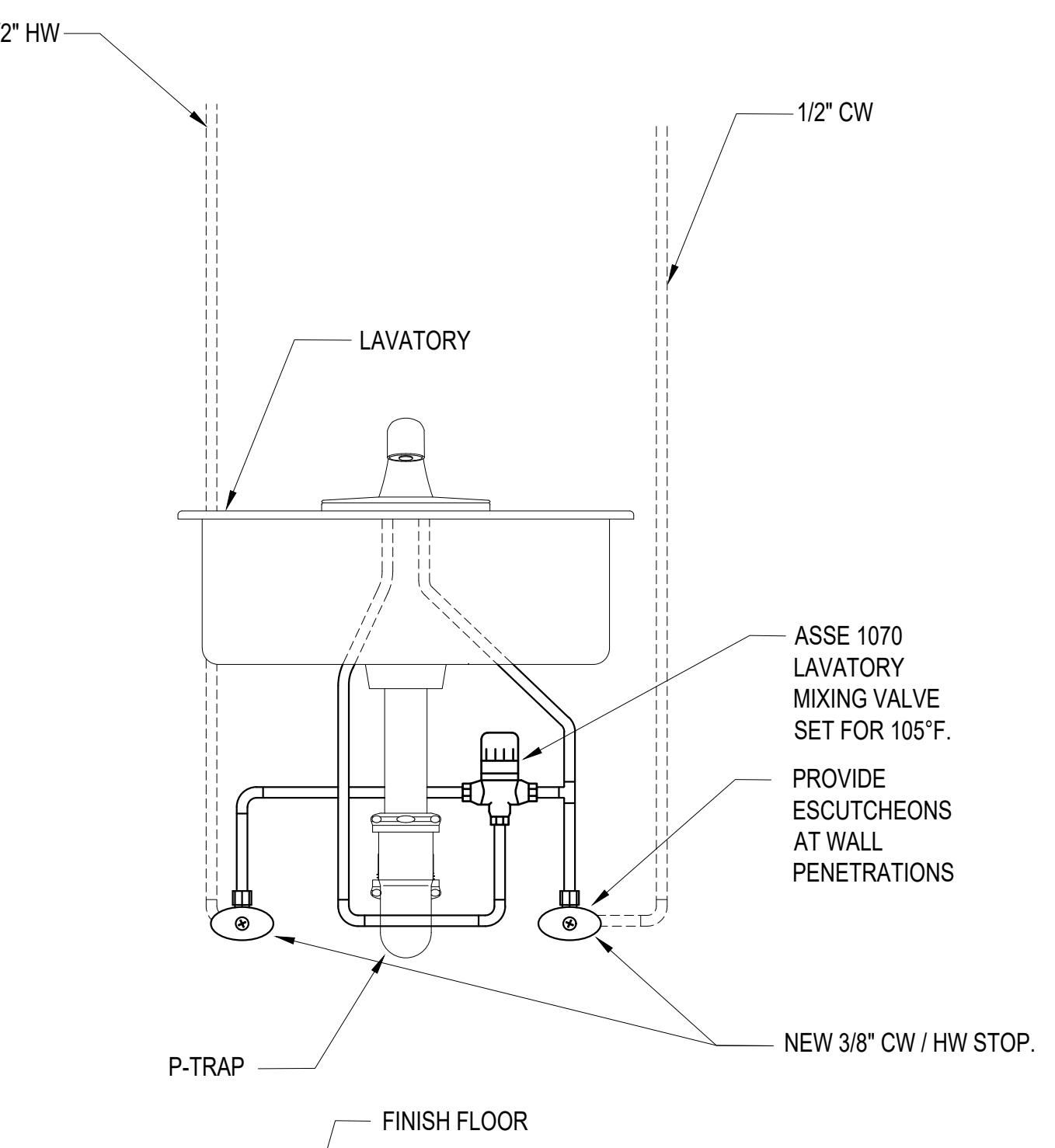


3 WALL CLEANOUT DETAIL  
NOT TO SCALE



NOTES:  
1. PIPING DIAGRAM. SEE MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL INFORMATION.  
2. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY  
ANY COMPONENT IN THE SYSTEM.  
3. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE.

4 WATER HEATER PIPING DIAGRAM  
NOT TO SCALE



5 LAVATORY MIXING VALVE DETAIL  
NOT TO SCALE



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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

APTIM  
PORT SERVICES, LLC

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

PLUMBING DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: P500.1 REV: E

NOTES

REFERENCE DRAWINGS

E

D

C

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A

ISSUED FOR BID

100% DESIGN REVIEW

95% DESIGN REVIEW

60% DESIGN REVIEW

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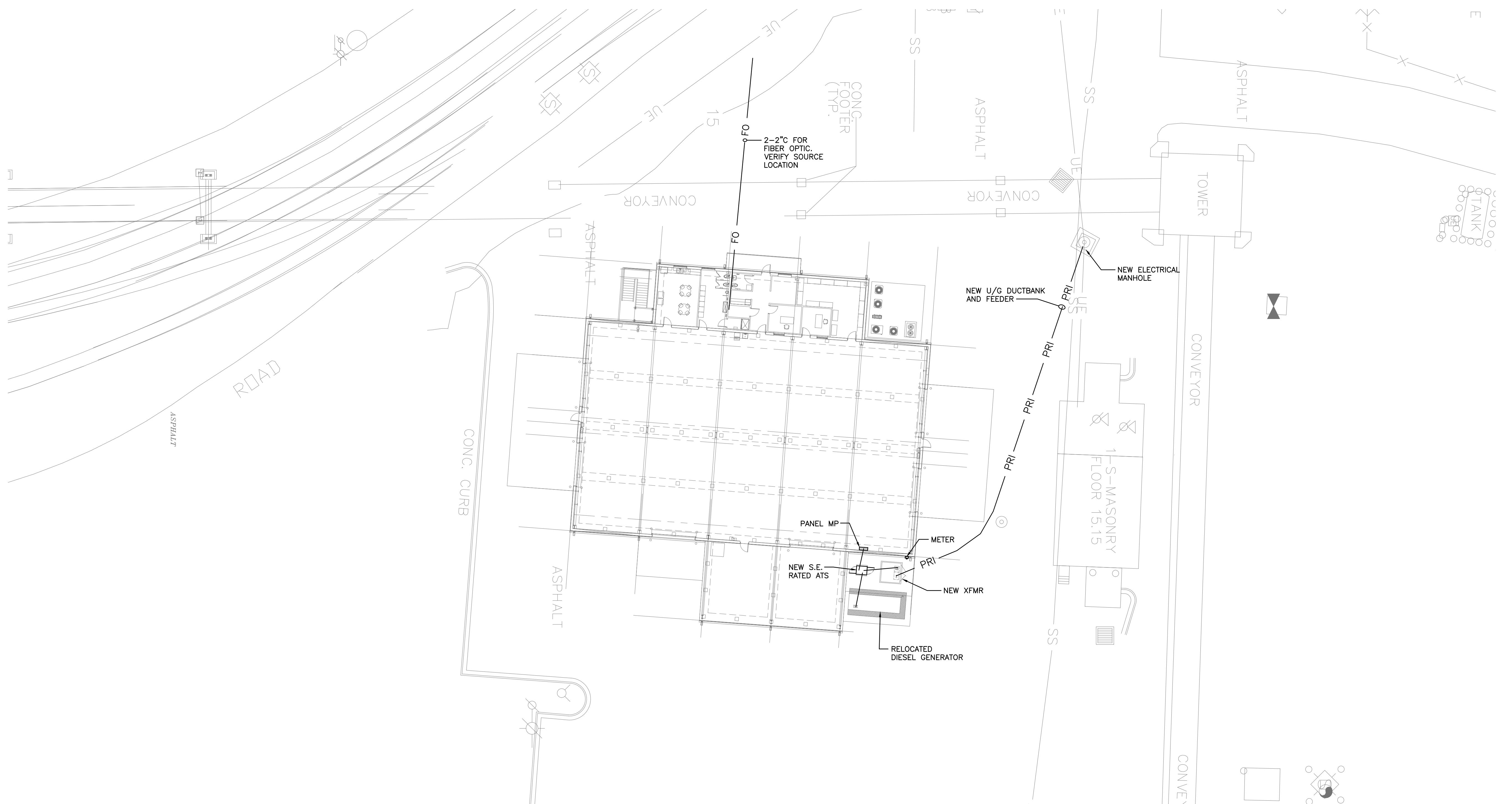
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A north arrow icon is positioned at the top left. It consists of a circle with a vertical line extending upwards and a diagonal line from the bottom-left corner to the top-right corner, forming an 'N' shape. To the right of the north arrow is a circular identifier containing the text '1 ES101'.

# ALABAMA PORT AUTHORITY

## PORT OF MOBILE

POWER & LIGHTING LEGEND

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

- FIXTURE STRIP, OVERHEAD / WALL MOUNTED.
- FIXTURE STRIP, OVERHEAD / WALL MOUNTED, EMERGENCY.
- /□/□ FIXTURE, 2X2, 1X4, 2X4.
- /□/□ FIXTURE, 2X2, 1X4, 2X4. W/ BATTERY BACKUP.
- /□/□ EMERGENCY BATTERY PACK FIXTURE, WALL / CEILING MOUNTED.
- /□/□ FIXTURE, SURFACE MTD. / RECESSED / WALL MOUNTED.
- /□/□ FIXTURE, SURFACE MTD. / RECESSED / WALL MOUNTED. W/ BATTERY BACKUP.
- /□/□ EXIT SIGN, CEILING/WALL MOUNTED W/BATTERY. PROVIDE ARROWS AS INDICATED
- S SINGLE POLE TOGGLE SWITCH, 120/277V, 20A. 3'-10" AFF
- 3 / 4 S THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH, 120/277V, 20A. 3'-10" AFF
- MR S MOTOR RATED SWITCH, VERIFY REQUIREMENT AND # OF POLES W/ EQUIPMENT
- MC S SINGLE POLE, THREE POSITION MOMENTARY CONTACT, 120/277 V, 20A. 3'-10" AFF
- DM S DIMMER SWITCH, 120/277V, AMPERAGE AS REQUIRED. 3'-10" AFF
- K S KEYED SWITCH, 120/277V, AMPERAGE AS REQUIRED. 3'-10" AFF
- L S LOW VOLTAGE SWITCH, 3'-10" AFF
- OS / OS OCCUPANCY SENSOR, 3'-10" AFF WALL/CEILING MTD.
- OS<sup>2R</sup> OCCUPANCY SENSOR, 3'-10" AFF DUAL RELAY FOR LIGHTING/EXHAUST FAN
- PP OCCUPANCY SENSOR, RELAY/POWER PACK, CONCEALED, ACCESSIBLE.
- PC PHOTOCELL
- /— PANEL, LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE.
- FUSED DISCONNECT SPECIFY AMP/POLE
- NON-FUSED DISCONNECT SPECIFY AMP/POLE
- MOTOR STARTER, NUMBER NEXT TO SYMBOL INDICATES SIZE, SEE SPECIFICATIONS FOR DESCRIPTION WHEN SHOWN WITHIN BOUNDARY OF EQUIPMENT PROVIDED AS PART OF THE EQUIPMENT.
- COMBINATION NONFUSIBLE DISCONNECT SWITCH/MAGNETIC MOTOR STARTER IN NEMA 1 ENCLOSURE, NUMBER NEXT TO SYMBOL INDICATES SIZE, SEE SPECIFICATIONS FOR DESCRIPTION
- EXHAUST FAN FURNISHED AND INSTALLED BY HVAC. REFER TO MECHANICAL DWG'S FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
- SINGLE RECEPTACLE 120/277V, AMPERAGE AS REQUIRED. 1'-6" AFF
- /□ DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A. 1'-6" AFF
- /□ DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A. 6" ABOVE COUNTER U.N.O.
- /□ DUPLEX/QUAD RECEPTACLE OUTLET, ISOLATED GROUND, 120/277V, 20A. 1'-6"
- /□ RECEPTACLE, FLOOR / CEILING FLUSH MOUNTED. 120/277V, 20A.
- /□ TWO GANG FLOOR BOX WITH ONE RECEPT AND PROVISION FOR DUAL COMM CABLE. WIREMOLD RFB2 MULTI-SERVICE RECESSED FLOOR BOX WITH BRASS COVERPLATE. FURNISH WITH ALL APPURTENANCES FOR COMPLETE SYS LESS COMM CABLING.
- 2-POLE SINGLE RECEPTACLE 240V, AMPERAGE AS REQUIRED.
- TVSS RECEPTACLE DUPLEX RECEPTACLE, 120V, 20A. EQUAL TO PASS & SEYMOUR #5362WSP
- SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG. ("GF"=GROUND FAULT PROTECTED, "WP"= (WR & GF TYPE) WEATHER PROOF & GFI PROTECTED) USE GF RATED BREAKER WHERE DEVICE IS NOT READILY ACCESSIBLE PER NEC
- /□ JUNCTION BOX
- PRIMARY FEEDER CONDUIT, SEE RISER DIAGRAM FOR DETAILS
- SECONDARY FEEDER CONDUIT, SEE RISER DIAGRAM FOR DETAILS
- OVERHEAD ELECTRICAL, SEE RISER DIAGRAM FOR DETAILS
- UNDERGROUND ELECTRICAL FEEDER, SEE RISER DIAGRAM FOR DETAILS
- COMMUNICATION CONDUIT TO TRAILER
- UNDERGROUND FIBER OPTIC CONDUIT
- TBB / CBB COMMUNICATIONS, TELEPHONE / COMPUTER BACKBOARD.
- HVAC CONTROLS, 54" AFF U.N.O. WITH 3/4" C TO ACCESSIBLE CEILING. TSTAT WIRING BY HVAC
- LIGHTING CONTACTOR, ELECTRICALLY HELD, 4-POLE MINIMUM WITH HOA SWITCH. COORDINATE ACTUAL NUMBER OF POLES WITH NUMBER OF EXTERIOR LIGHTING CIRCUITS. COIL VOLTAGE SHALL MATCH PHOTOCELL OUTPUT VOLTAGE.

ELECTRICAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

- AT AND AMPERE MAX MCB MAIN CIRCUIT BREAKER
- AB AMPERE MCB MOTOR CONTROL CENTER
- AC ALTERNATING CURRENT MCM 1000 CIRCULAR MILS
- A/C AIR CONDITIONING MECH MECHANICAL
- AFF ABOVE FINISH CEILING MH MINIMUM
- AFF ABOVE FINISH FLOOR MISC MISCELLANEOUS
- AFG ABOVE FINISH GRADE MLO MAIN LUGS ONLY
- AIC AMPERE INTERRUPTING CAPACITY MFR MANUFACTURER
- ALUM ALUMINUM MTD MOUNTED
- APPROX APPROXIMATELY MTG MOUNTING
- ARCH ARCHITECTURAL MTS MANUAL TRANSFER SWITCH
- ATS AUTOMATIC TRANSFER SWITCH N NET
- AUX AUXILIARY NA NOT APPLICABLE
- AWG AMERICAN WIRE GAGE N.C. NORMALLY CLOSED
- BB BACKBOARD NEC NATIONAL ELECTRICAL CODE
- BKR BREAKER NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSO.
- BLDG BUILDING NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- C CONDUIT N.I.C. NOT IN CONTRACT
- CAB CABINET NL NIGHT LIGHT
- CIR CIRCUIT N.O. NORMALLY OPEN
- CLG CEILING NO. OR # NUMBER
- CON CONTROL OD OUTSIDE DIAMETER
- CT CURRENT TRANSFORMER P POLE
- CTV CABLE TELEVISION PF POWER FACTOR
- CU COPPER PH OR Ø PHASE
- CWP COLD WATER PIPE PMS PAD MOUNTED SWITCH
- DB DIRECT BURIAL PMT PAD MOUNTED TRANSFORMER
- DC DIRECT CURRENT PNL PANEL
- DEG DEGREE PRI PRIMARY
- DETD DUAL ELEMENT TIME DELAY PROVIDE FURNISH AND INSTALL
- DIR DIRECTED PT POTENTIAL TRANSFORMER
- DISC DISCONNECT SWITCH PVC POLYVINYL CHLORIDE
- DN DRAIN PW PART WINDING
- DPSL CARBAGE DISPOSAL REF REFERENCE
- DPST DOUBLE POLE - SINGLE THROW REO REQUIRED
- DPDT DOUBLE POLE - DOUBLE THROW RLA RATED LOAD AMPERES
- DTXFRM DRY TYPE TRANSFORMER RM ROOM
- DW DISHWASHER RNC RIGID NONMETALLIC CONDUIT
- EA EACH RNS ELECTRICAL RANGE
- EXH EXHAUST REF REFRIGERATOR
- EMR EMERGENCY RT RAIN TIGHT
- EMT ELECTRICAL METALLIC TUBING SCOR SHORT CIRCUIT CURRENT RATING
- EP EXPLOSION PROOF EQUIPMENT SCHEDULE
- EQUIP EQUIPMENT SD SOFT DRAWN
- ER EXISTING, REMOVE. SF SERVICE ENTRANCE
- EWC ELECTRIC WATER COOLER SEC SECONDARY
- EX EXISTING, REPLACE WITH NEW SH SHEET
- F FUSE SI INTERNATIONAL SYSTEM OF UNITS
- F FA FLUSH MTG SLD SINGLE LINE DIAGRAM
- FIN FINISHED SMR SURFACE METALLIC RACEWAY
- FLR FLOOR SN SOLID NEUTRAL
- FLA FULL LOAD AMPERES SPECIFICATIONS
- FMC FLEXIBLE METAL CONDUIT SPDT SINGLE POLE - DOUBLE THROW
- GALV GALVANIZED STS STATIC TRANSFER SWITCH
- GF GROUND FAULT INTERRUPTER SW BD SWITCH BOARD
- GRC GALVANIZED RIGID METAL CONDUIT SW GR SWITCHGEAR
- GND GND TB TERMINAL BACKBOARD
- HD HEAVY DUTY TELEPHONE
- HH HANDPIPE TEMP TEMPERATURE
- HP HORSEPOWER TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- HV HIGH VOLTAGE TYP TYPICAL
- HVAC HEATING/VENTILATION/AIR COND. UL UNDERWRITER'S LABORATORY
- HZ HERTZ (CYCLES PER SECOND) VOLTAGE
- ID INSIDE DIAMETER VAC VOLTS ALTERNATING CURRENT
- IG ISOLATED GROUND VDC VOLTS DIRECT CURRENT
- IMC INTERMEDIATE METAL CONDUIT VENT VENTILATION
- J-BOX JUNCTION BOX WIRE WIRE
- K KILO (1000) W/ WITH
- KCML KILO CIRCULAR MILS WP WEATHERPROOF
- KV KILO VOLT WT WATERPROOF
- KW KILO WATTS Z ZONE
- LFC LIQUIDTIGHT FLEXIBLE CONDUIT FEET
- LGT LIGHTING INCHES
- LV LOW VOLTAGE

AUXILIARY LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

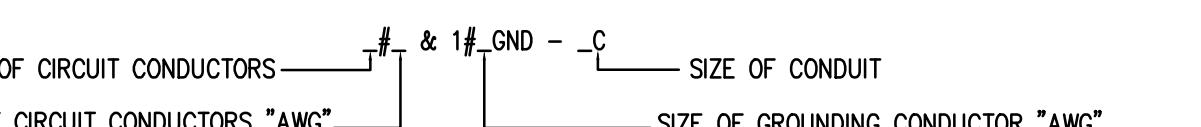
- FIRE ALARM MANUAL PULL STATION, 3'-10" AFF
- /□ FIRE ALARM STROBE / HORN-STROBE, 7'-6" AFF
- /□ FIRE ALARM STROBE / HORN-STROBE. CEILING MOUNTED.
- FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
- FIRE ALARM DUCT-MOUNTED SMOKE DETECTOR W/ SAMPLING TUBE.
- FIRE ALARM REMOTE TEST STATION, 3'-10" AFF
- FIRE ALARM HEAT DETECTOR, CEILING MOUNTED.
- FIRE ALARM AUXILIARY RELAY.
- MONITOR MODULE FOR AUXILIARY CONTROL
- /□ FIRE ALARM FIRE SPRINKLER SYSTEM VALVE TAMPER SWITCH
- /□ FIRE ALARM FIRE SPRINKLER SYSTEM FLOW SWITCH
- FIRE ALARM CONTROL PANEL.
- FIRE ALARM REMOTE PANEL.
- /□ TELEPHONE/DATA OUTLET AND COVER PLATE, 18" AFF WITH 3/4" C. AAC/UNO
- WALL MOUNTED TELEPHONE, MOUNT 60" AFF/UNO
- COMBINATION DATA/TELEPHONE OUTLET AND COVER PLATE, 18" ACC WITH 3/4" C TO ACC/UNO
- ACCESS CONTROL ROUGH-IN, CARD READER
- ACCESS CONTROL ROUGH-IN, DOOR LOCK
- PUBLIC ADDRESS SYSTEM, SPEAKER (BY OTHERS)

ELECTRICAL DESIGNATIONS

- /□ FIXTURE NOTE TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
- /□ FIXTURE NOTE TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
- /□ RECEPT NOTE WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP)
- PPA-5 HOME RUN HOMERUN (TYP) TO PANEL 'PPA', CONNECT TO CIRCUIT NO. 5 EX: 1#12 (PH), 1#12 (N) & 1#12 GND.
- /□ MULTI-CONDUCTOR RUN MULTI-CONDUCTOR RUN (TYP) EX: 3#12 (PH), 1#12 (N) & 1#12 GND
- /□ WIRE DESIGNATION TIC INDICATES NUMBER OF CONDUCTORS, EX: 3#12 (PH), 1#12 (N) & 1#12 GND

NOTES:

1. "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR OPERATION AT ALL TIMES.
2. ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
3. EQUIPMENT GROUND CONDUCTOR SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:  
#12 AWG CIRCUIT - #12 GND  
#10 AWG CIRCUIT - #10 GND  
#8 AWG CIRCUIT - #10 GND
4. UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.



5. DUCT DETECTORS SHALL BE PROVIDED BY E.C. AS PART OF THE F/A EQUIPMENT PACKAGE. INSTALLATION OF DUCT DETECTOR, SAMPLING TUBES AND CORRESPONDING FAN SHUTDOWN CONTROL WIRING SHALL BE BY MECHANICAL.
6. IN GENERAL, THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED AND AS FOLLOWS:

ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
2. ALL WORK SHALL COMPLY WITH IBC 2021, NEC 2020, STATE AND LOCAL CODES, AND CHERON CONSTRUCTION STANDARDS WHERE APPLICABLE. VERIFY WITH AUTHORITY HAVING JURISDICTION AND COMPLY AS REQUIRED.
3. OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
4. EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
5. MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
6. ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL "RGS" OR "IMC". EMT SHALL NOT BE ACCEPTABLE. COORDINATE WITH ARCHITECT IF FINISH PAINTING SHALL BE REQUIRED.
7. VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
8. ALL EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND SHALL BE SERVED FROM THE SAME CIRCUIT AS THE GENERAL LIGHTING IN THE SAME AREA U.N.O.
9. ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
10. ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER IBC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
11. COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT.
12. COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO ENSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
13. AVOID PENETRATING THE OUTER SKIN OF METAL BUILDING WALLS AND ROOF. MOUNT EQUIPMENT ON STRUCTURAL COLUMNS AND PURLINS WHERE POSSIBLE. PROVIDE MOUNTING STRUT BETWEEN STRUCTURAL MEMBERS WHERE NECESSARY. FOR ANY UNAVOIDABLE ROOF PENETRATION, ENSURE THAT METAL BUILDING MANUFACTURER'S ROOF WARRANTY REQUIREMENTS ARE SATISFIED.
14. CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER. ANY RECEPTACLE BRANCH WIRING OVER 100' SHALL BE #10 AWG FOR HOT AND NEUTRAL.
15. CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT THHN INSULATION.
16. ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC CONDUIT. PVC SCHEDULE 40, MAY BE INSTALLED BELOW GRADE WITH TRANSITIONS TO PVC SCH 80 IF CONCEALED WALL OR "RGS" IF EXPOSED ABOVE GRADE.
17. THE USE OF MC CABLE IS PERMISSIBLE ONLY IN CONCEALED LOCATIONS AND FOR FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES.
18. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
19. TELECOM OUTLETS WHERE INSTALLED ADJACENT TO RECEPTACLE OUTLETS, SHALL HAVE UNIFORM SPACING BETWEEN RESPECTIVE DEVICES. E.C. SHALL UTILIZE MOUNTING PROVISIONS BETWEEN STUDS, IF REQUIRED, TO MAINTAIN THIS REQUIREMENT.

FIRE ALARM SYSTEM NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A FIRE SPRINKLER SUPERVISORY TYPE SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH SPECIFICATIONS.
2. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PER IFC 907.7.5.1, AN AUTOMATIC TELEPHONE DIALING DEVICE USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.
3. INSTALLATION SHALL COMPLY WITH IBC 2021, NEC 2020, NFPA 72, FACTORY MUTUAL ENGINEERING AND RESEARCH (FM), UL AND LOCAL FIRE MARSHALL REQUIREMENTS.
4. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC. SHALL BE GROUNDED.
5. DUCT DETECTORS SHALL BE PROVIDED BY E.C. AS PART OF THE F/A EQUIPMENT PACKAGE. INSTALLATION OF DUCT DETECTOR, SAMPLING TUBES AND CORRESPONDING FAN SHUTDOWN CONTROL WIRING SHALL BE BY MECHANICAL.
6. IN GENERAL, THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED AND AS FOLLOWS:

POWER, 120VAC, #12 AWG  
NOTIFICATION ALARM CIRCUITS (NAC),  
24VDC, #14 AWG, NFPA 72, STYLE 2 (CLASS B)  
SIGNALING LINE CIRCUIT (SLC), 24VDC, STYLE 5 (CLASS B)

ALL CLASS 'A' CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT ROUTED THROUGH THE SAME CABLE OR RACEWAY. A LOOP CIRCUIT SYSTEM SHALL BE UTILIZED.

7. ALL WIRING SHALL BE IN A COMPLETE CONDUIT SYSTEM, SIZED IN ACCORDANCE WITH NFPA 70 (NEC). JB COVERPLATES SHALL BE RED IN COLOR. PERMANENT MARKER IDENTIFICATION NOTES SHALL BE WRITTEN INSIDE JB FOR ZONE OR ADDRESS OF DEVICE. INSTALLATION SHALL COMPLY WITH SPECIFICATIONS.
8. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE OBTAINED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
9. E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR, FIRE ALARM CONTRACTOR AND FIRE MARSHALL ALL REQUIRED INSPECTIONS.
10. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.

thompson  
ENGINEERING



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

ELECTRICAL NOTES & LEGEND

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: E-100

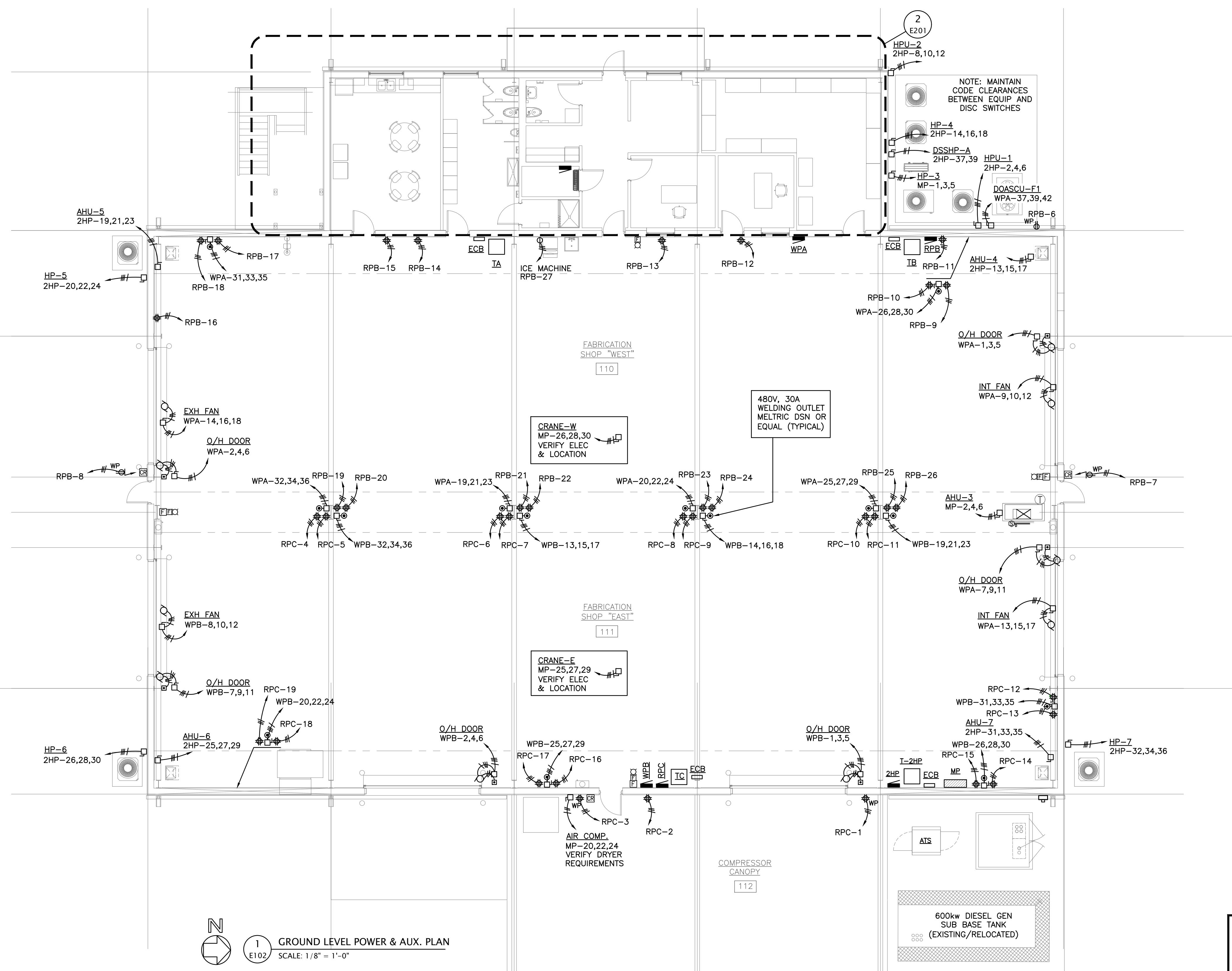
REV: E

APTIM  
PORT SERVICES, LLC

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NOTES					
					
REFERENCE DRAWINGS					





thompson  
ENGINEERING



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

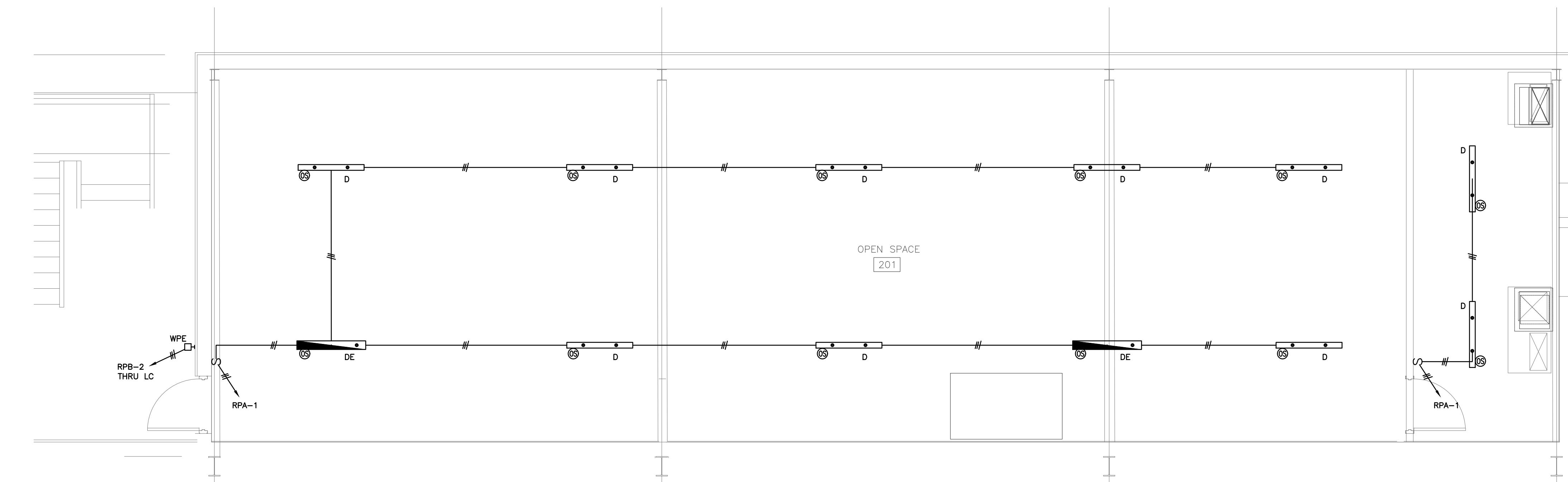
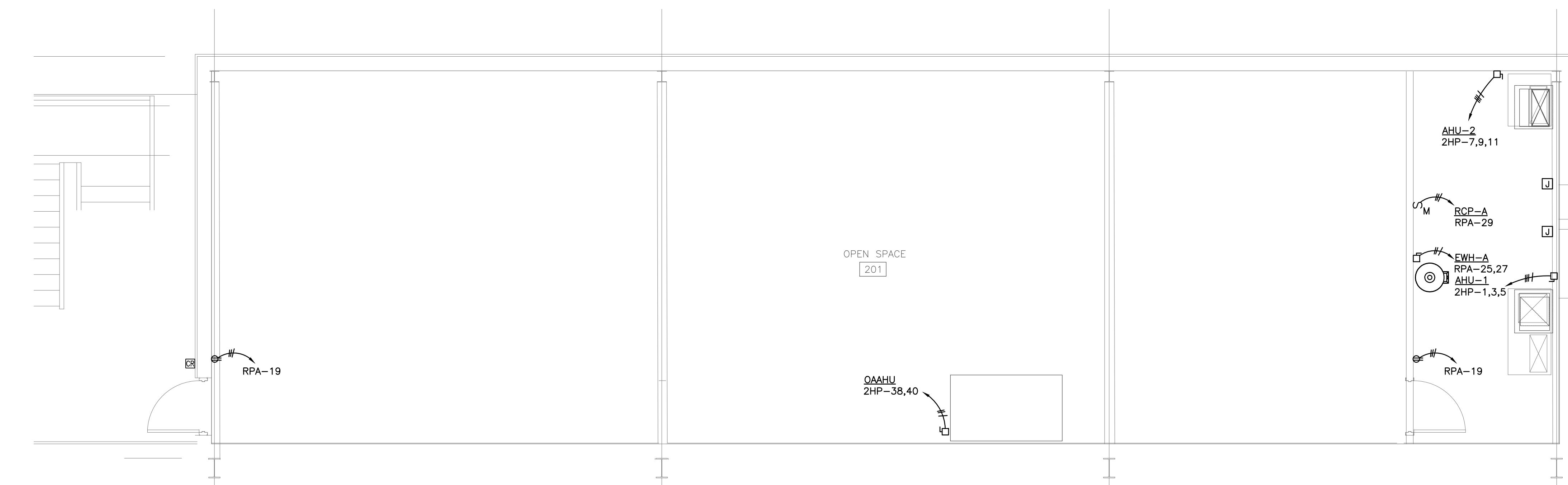
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
POWER & AUXILIARY PLAN

FOR: ALABAMA PORT AUTHORITY  
DWG NO: E-102  
REV: E

NOTES	E	ISSUED FOR BID	GWS	GWS	GWS	01-14-26
	D	100% DESIGN REVIEW	GWS	GWS	GWS	09-09-25
	C	95% DESIGN REVIEW	GWS	GWS	GWS	08-08-25
	B	60% DESIGN REVIEW	GWS	GWS	GWS	06-11-25
	A	30% DESIGN REVIEW	GWS	GWS	GWS	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE
			DRAWN: GWS	CK'D: GWS	APP'D: GWS	DATE: TBD
			SCALE: NONE			

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N  
E202

1  
E202

SECOND FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

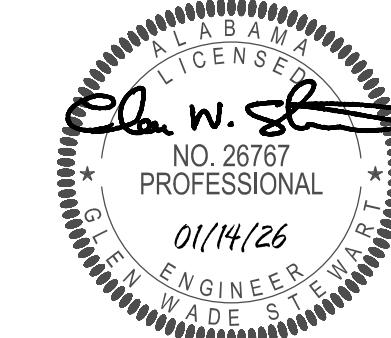
ENLARGED OFFICE PLANS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: E-202

REV: E

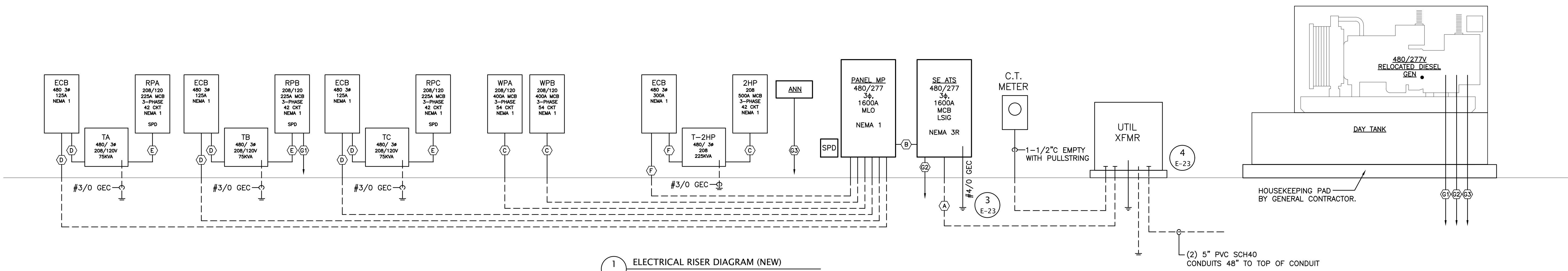
NOTES



REFERENCE DRAWINGS

	E	ISSUED FOR BID	GWS	GWS	GWS	01-14-26
	D	100% DESIGN REVIEW	GWS	GWS	GWS	09-09-25
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	A	30% DESIGN REVIEW	GWS	GWS	GWS	04-11-25

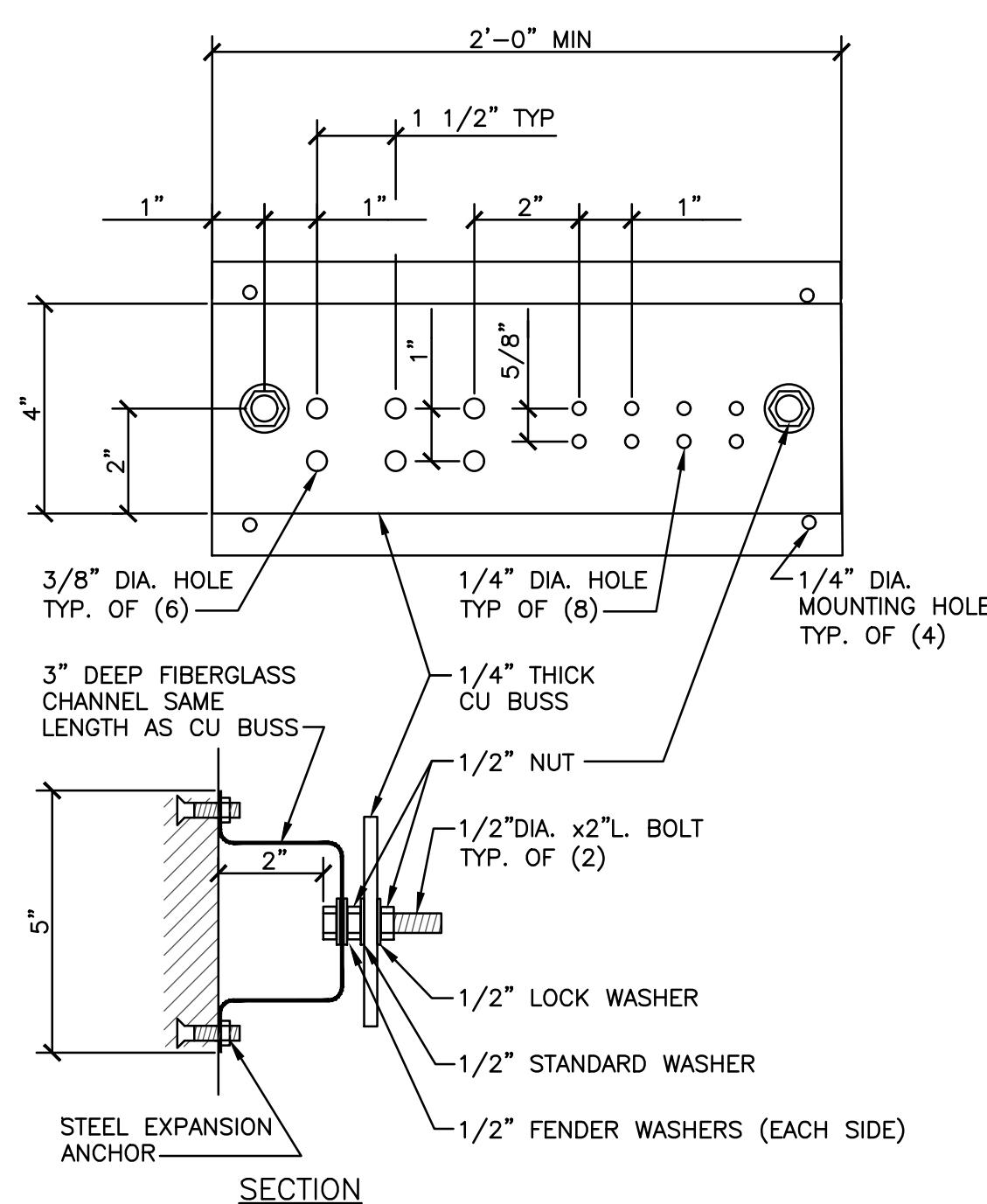
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1 ELECTRICAL RISER DIAGRAM (NEW)

E300 SCALE: NONE

- 4 PARALLEL RUNS: (1600A)  
4-#600KCMIL AWG THWN, 4°C
- 4 PARALLEL RUNS: (1600A)  
4-#600KCMIL AWG THWN &  
1-#4/0 GND, 4°C
- 2 PARALLEL RUNS: (500A)  
3-#250KCMIL AWG THWN &  
1-#4 GND, 3°C
- 3-#1 AWG THHN & 1-#6 GND, 1-1/4"C
- 4-#4/0 AWG THHN & 1-#6 GND, 2-1/2"C
- 3-#350KCMIL AWG THHN & 1-#4 GND, 3°C
- 120V, 20A CKT - BATTERY CHARGER  
208V, 20A CKT - BLOCK HEATER
- 6-#14 AWG, 3/4" TO ATS FOR CONTROL
- BELDEN CONTROL CABLE IN 3/4" CONDUIT TO  
REMOTE ANNUNCIATOR (VERIFY WITH GEN MFGR)

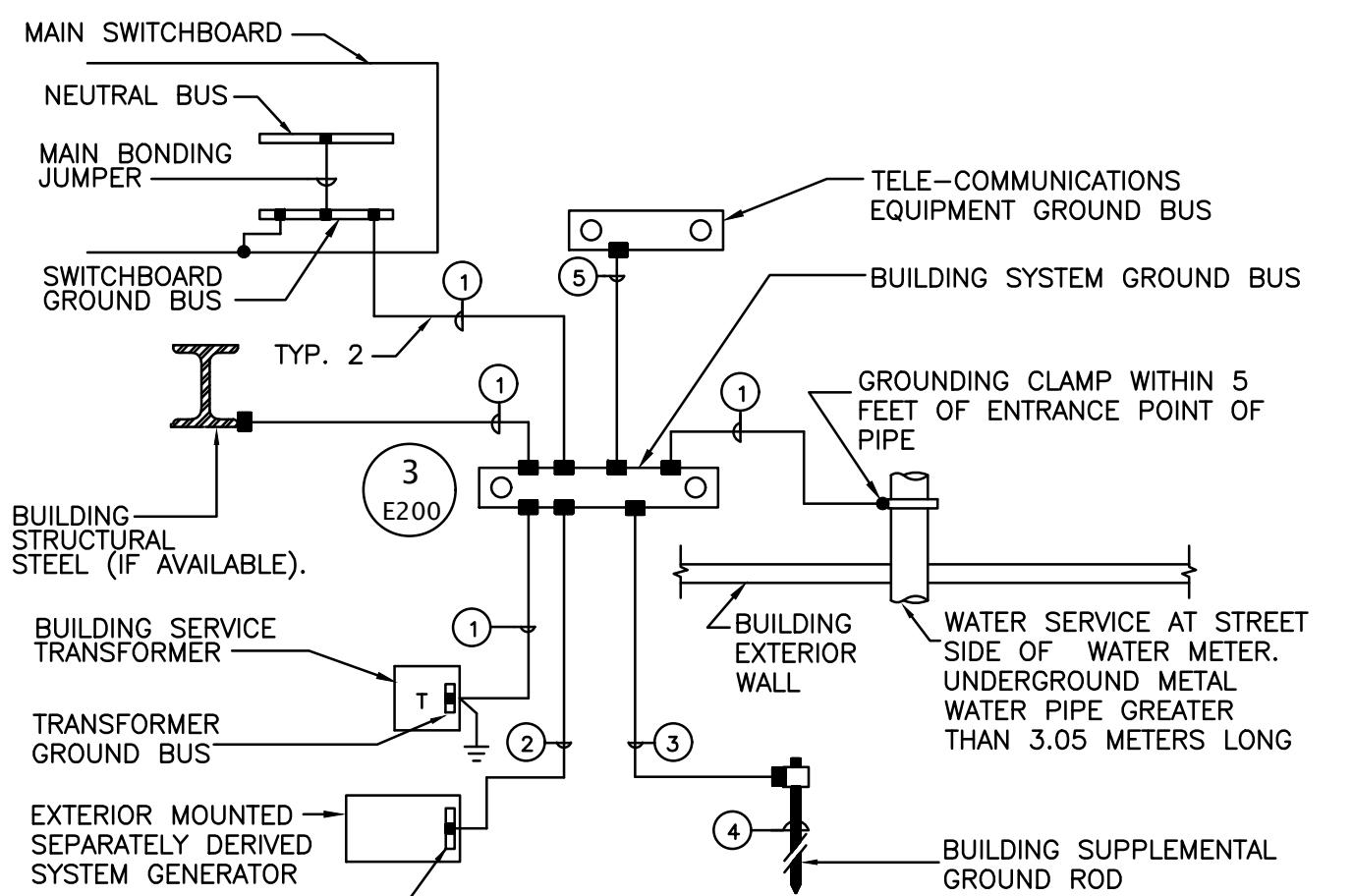


GENERAL NOTES

1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

### 3 GROUND BUS DETAIL

E300 SCALE: NONE



## LEGEND:

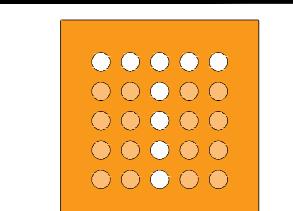
- INDICATES BOLTED CONNECTION.
- INDICATES EXOTHERMIC WELD CONNECTION, COMPATIBLE WITH MATERIALS BEING JOINED.
- ① 4/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 1-1/4" CONDUIT.
- ② 4/0 AWG COPPER GROUND CONDUCTOR ENCASED IN CONCRETE.
- ③ 4/0 AWG BARE COPPER GROUND CONDUCTOR.
- ④ 3/4" x 10' COPPER-CLAD GROUND ROD DRIVEN WITH TOP 12" BELOW GRADE.
- ⑤ 2/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 1-1/4" CONDUIT.

## 2 SERVICE GROUND DETAIL

E300



NOTES
 The seal is circular with a decorative border. The text "ALABAMA LICENSED PROFESSIONAL" is at the top, "NO. 26767" is in the center, and "01/14/26" is at the bottom. The name "GLEN WADE STEWART" is in the middle, and "E. W. S." is handwritten in the center. The seal is partially overlapping the notes area.



# thompson

## ENGINEERING

A blue circular logo containing a stylized letter 'M'.

# ALABAMA PORT AUTHORITY

CLIENT DWG NO:

## McDUFFIE TERMINAL IMPROVEMENTS

## NEW FABRICATION SHOP PACKAGE

## ELECTRICAL DETAILS

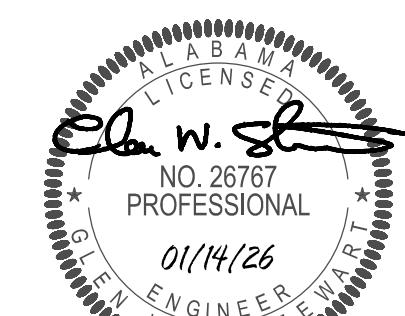
FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617 DWG NO: E-300

CMS-830-00-FM-02104 Optim ANSI D.dwg

PANEL MP									
VOLTAGE (L-N):		277	ENCLOSURE TYPE:		NEMA 1				
VOLTAGE (L-L):		480	MOUNTING:		SURFACE				
PHASES, WIRES:		3 $\phi$ 4 W	AIC RATING (A):		65000				
MINIMUM BUS CAPACITY (A):		1600 A	NOTES:		----				
MAIN O.C. DEVICE (A):		MLO							
CKT NO		DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)		POLE	TRIP AMPS	DESCRIPTION
A		B	C		A	B	C		
1,3,5	HPU-3	25	3	5265	15630	3	60	AHU-3	2,4,6
1,3,5	HPU-3	25	3	5265	15630	3	60	AHU-3	2,4,6
1,3,5	HPU-3	25	3	5265	15630	3	60	AHU-3	2,4,6
7,9,11	PANEL WPA	400	3	68529	74344	3	400	PANEL WPB	8,10,12
7,9,11	PANEL WPA	400	3	68529	74344	3	400	PANEL WPB	8,10,12
7,9,11	PANEL WPA	400	3	68529	74344	3	400	PANEL WPB	8,10,12
13,17	XFMR RPA	125	3	8714	10688	3	125	XFMR RPB	14,16,18
13,17	XFMR RPA	125	3	8490	10500	3	125	XFMR RPB	14,16,18
13,17	XFMR RPA	125	3	7530	9360	3	125	XFMR RPB	14,16,18
19,21,23	XFMR RPC	125	3	10500	62000	3	125	AIR COMP	20,22,24
19,21,23	XFMR RPC	125	3	9000	62000	3	125	AIR COMP	20,22,24
19,21,23	XFMR RPC	125	3	9000	62000	3	125	AIR COMP	20,22,24
25,27,29	CRANE E	125	3	25000	25000	3	125	CRANE W	26,28,30
25,27,29	CRANE E	125	3	25000	25000	3	125	CRANE W	26,28,30
31,33,35	SHOP CLG FANS	20	3	3330	50688	3	250	XFMR 2HP	32,34,36
31,33,35	SHOP CLG FANS	20	3	3330	50688	3	250	XFMR 2HP	32,34,36
31,33,35	SHOP CLG FANS	20	3	3330	48348	3	250	XFMR 2HP	32,34,36
37,39,41	SPARE	200	3	0	0	3	200	SPARE	38,40,42
37,39,41	SPARE	200	3	0	0	3	200	SPARE	38,40,42
37,39,41	SPARE	200	3	0	0	3	200	SPARE	38,40,42
43,45,47	SPARE	100	3	0	0	3	100	SPARE	44,46,48
43,45,47	SPARE	100	3	0	0	3	100	SPARE	44,46,48
43,45,47	SPARE	100	3	0	0	3	100	SPARE	44,46,48
49,51,53	SPARE	100	3	0	0	3	30	SPD	50,52,54
49,51,53	SPARE	100	3	0	0	3	30	SPD	50,52,54
49,51,53	SPARE	100	3	0	0	3	30	SPD	50,52,54
CONNECTED LOAD PHASE TOTALS (VA)					359688	357776	353336		
CONNECTED LOAD (kVA)					DEMAND LOAD (kVA)	911.4			
Welding		350.0	0.50	175.0	SPARE CAPACITY	418.8 kVA			
Cooling		21.0	1.00	21.0	SPARE CAPACITY	503.8 AMPS			
Cooling and Heating		128.7	1.00	128.7	PHASE BALANCE	31%			
Heating		86.6	1.00	86.6	A TO B	99%			
Lighting		2.2	1.25	2.7	B TO C	99%			
Kitchen Equipment - Non-Dwelling Unit		10.5	0.65	6.8	C TO A	98%			
Lighting - Exterior		0.4	1.25	0.4					
Motors		219.6	1.00	219.6					
Motors (Largest)		186.0	1.25	232.5					
Receptacles (0 - 10 kVA)		10.0	1.00	10.0					
Receptacles (Over 10 kVA)		55.8	0.50	27.9					
TOTAL:		1070.8							
LOAD (AMPS):		1288.0							

CONDUCTOR SCHEDULE			
CONDUCTORS / CONDUITS SHALL BE SIZED ACCORDING TO THE FOLLOWING CHART UNLESS OTHERWISE NOTED.			
CKT BKR	WIRE (AWG)	EQUIP. GND	CONDUIT
15	12	#12	3/4"
20	12	#12	3/4"
30	10	#10	3/4"
40	8	#10	1"
50	6	#10	1"
60	6	#10	1"
70	4	#8	1-1/4"
80	4	#8	1-1/4"
90	3	#8	1-1/4"
100	3	#8	1-1/4"
125	1	#6	1-1/2"
150	#1/0	#6	2"
175	#2/0	#6	2"
200	#3/0	#6	2"
225	#4/0	#4	2-1/2"
250	250KCMIL	#4	3"
400	600KCMIL	#2	4"
NOTES:			
1. NEUTRAL CONDUCTOR (IF REQUIRED) SHALL BE THE SAME SIZE AS PHASE CONDUCTORS.			
2. CIRCUIT BREAKERS OR OTHER CYCLICAL EQUIPMENT SHALL UTILIZE HACR TYPE CIRCUIT BREAKERS.			
3. CONTRACTOR TO PROVIDE QUANTITY OF CONDUCTORS AS NECESSARY TO POWER LOADS.			
4. CONDUIT SIZES BASED ON FOUR CONDUCTORS MAXIMUM. CONTRACTOR SHALL FOLLOW NEC GUIDELINES FOR DERATING AMPACITIES AND CONDUIT SIZES FOR ALL COMBINED CIRCUITS.			
5. CONDUCTORS SHALL BE COPPER. INDICATED SIZES ARE FOR USE WITH CIRCUIT BREAKERS.			
6. FOR BREAKERS SIZES NOT INDICATED SUCH AS 25A, COMPLY WITH NEC SECTION 240.4 (PROTECTION OF CONDUCTORS).			
7. CONTRACTOR SHALL COORDINATE THE REQUIRED NUMBER OF CONDUCTORS WITH EQUIPMENT MFR PRIOR TO ROUGH IN.			

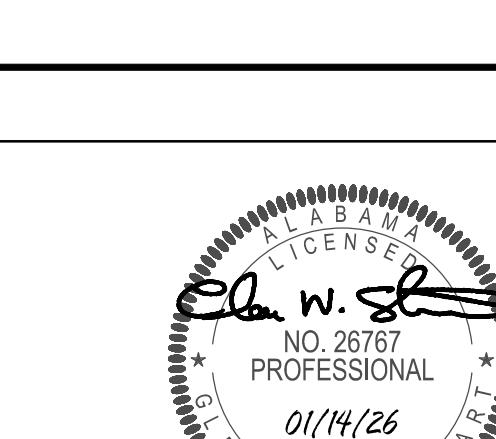


NOTES	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APP'D	DATE	DRAWN: GWS	CK'D: GWS	APP'D: GWS	DATE: TBD	SCALE: NONE

PANEL WPA									
VOLTAGE (L-N):		277	ENCLOSURE TYPE:						

PANEL RPA											
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1					
VOLTAGE (L-L):		208		MOUNTING:		SURFACE					
PHASES, WIRES:		3 $\Delta$ 4 W				AIC RATING (A):					
MINIMUM BUS CAPACITY (A):		225 A				NOTES: ----					
MAIN O.C. DEVICE (A):		225 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO	
1	LTGS, OFFICE	20	1	1524	0		1	20	SPARE	2	
3	REC, 101 OFFICE	20	1	900	900		1	20	REC, 102 OFFICE	4	
5	REC, 103 STORAGE	20	1	900	720		1	20	REC, 103 STORAGE	6	
7	REC, 104 OFFICE	20	1	900	180		1	20	REC, 105 WOMEN'S RR	8	
9	REC, 106 IT	20	1	540	360		1	20	REC, 108 MEN'S RR (GFCI)	10	
11	REC, 109 BREAKROOM FRIDGE	20	1	1500	1500		1	20	REC, 109 BREAKROOM (GFCI)	12	
13	REC, 109 BREAKROOM (GFCI)	20	1	1500	1500		1	20	REC, 109 BREAKROOM (GFCI)	14	
15	REC, 109 BREAKROOM (GFCI)	20	1	180	1500		1	20	REC, 109 BREAKROOM APPLIANCE	16	
17	REC, 109 BREAKROOM APPLIANCE	20	1	1500	1260		1	20	REC, BREAKROOM 109 (GFCI)	18	
19	REC, 2ND FLOOR	20	1	360	500		1	20	REC, CORR. 100 PRINTER	20	
21	REC, 109 DISPOSAL	20	1	1500	360		1	20	REC, CORR. 100 COUNTER	22	
23	FACP	20	1	0	0		1	20	SPARE	24	
25,27	EWH-A	30	2	2250	0		1	20	SPARE	26	
29	RCP-A	20	1	150	0		1	20	SPARE	30	
31	SPARE	20	1	0	0		1	20	SPARE	32	
33	SPARE	20	1	0	0		1	20	SPARE	34	
35	SPARE	20	1	0	0		3	30	SPD	36	
37	SPARE	20	1	0	0		3	30	SPD	38,40,42	
39	SPARE	20	1	0	0		3	30	SPD	38,40,42	
41	SPARE	20	1	0	0		3	30	SPD	38,40,42	
CONNECTED LOAD PHASE TOTALS (VA)											
		8714		8490		7530					
CONNECTED LOAD (kVA) DEMAND FACTOR DEMAND LOAD (kVA) DEMAND LOAD (kVA) SPARE CAPACITY (kVA)											
Lighting	1.2	1.25	1.5	21.9 kVA	59.1 kVA						
Kitchen Equipment - Non-Dwelling Unit	9.0	0.65	5.8		164.1 AMPS						
Motors	0.3	1.00	0.3		73 %						
Motors (Largest)	0.1	1.25	0.2		A TO B 97 %						
Receptacles (0 - 10 kVA)	9.6	1.00	9.6		B TO C 89 %						
Heating	4.5	1.00	4.5		C TO A 86 %						
TOTAL:	24.7		21.9								
LOAD (AMPS):	66.7		60.9								

PANEL RPC											
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1					
VOLTAGE (L-L):		208		MOUNTING:		SURFACE					
PHASES, WIRES:		3 $\Delta$ 4 W				AIC RATING (A):					
MINIMUM BUS CAPACITY (A):		225 A				NOTES: ----					
MAIN O.C. DEVICE (A):		225 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO	
1	REC, COMPRESSOR CANOPY	20	1	1500	1500		1	20	REC, COMPRESSOR CANOPY	2	
3	REC, COMPRESSOR CANOPY	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	4	
5	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	6	
7	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	8	
9	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	10	
11	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	12	
13	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	14	
15	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	16	
17	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	18	
19	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	20	
21	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	22	
23	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	24	
25	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	26	
27	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	28	
29	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	30	
31	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	32	
33	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	34	
35	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	36	
37	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	38,40,42	
39	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	38,40,42	
41	REC, QUAD SHOP EAST	20	1	1500	1500		1	20	REC, QUAD SHOP EAST	38,40,42	
CONNECTED LOAD PHASE TOTALS (VA)											
		10500		9000		9000					
CONNECTED LOAD (kVA) DEMAND FACTOR DEMAND LOAD (kVA) DEMAND LOAD (kVA) SPARE CAPACITY (kVA)											
Receptacles (0 - 10 kVA)	10.0	1.00	10.0	10.0	61.8 kVA						
Receptacles (Over 10 kVA)	18.5	0.50	9.3		171.6 AMPS						
TOTAL:	28.5		19.3								
LOAD (AMPS):	79.1		53.4								



NOTES

REFERENCE DRAWINGS

NO. REVISION

DRAWN CK'D APP'D DATE DRAWN: GWS CK'D: GWS APPD: GWS DATE: TBD SCALE: NONE

PROJECT NO: 4617 DWG NO: E-302 REV: E

PANEL RPB									

GENERATOR DETAIL		MAY 16, 2025	
(3FZ08760)-ENGINE (AER00691)-GENERATOR (9EP03850)-GENSET		For Help Desk Phone Numbers <a href="#">Click here</a>	
Selected Model			
Engine: 3412	Generator Frame: 594	Genset Rating (kW): 600.0	Line Voltage: 480
Fuel: Diesel	Generator Arrangement: 1366616	Genset Rating (kVA): 750.0	Phase Voltage: 277
Frequency: 60	Excitation Type: Permanent Magnet	Pwr. Factor: 0.8	Rated Current: 902.1
Duty: STANDBY	Connection: SERIES STAR	Application: EPG	Status: Current
Version: 39094/38915/38261/2151			
Spec Information			
Generator Specification		Generator Efficiency	
Frame: 594	Type: SR4B	No. of Bearings: 1	Per Unit Load kW Efficiency %
Winding Type: RANDOM WOUND	Flywheel: 18.0	0.25	150.0 91.7
Connection: SERIES STAR	Housing: 0	0.5	300.0 94.5
Phases: 3	No. of Leads: 12	0.75	450.0 95.0
Poles: 4	Wires per Lead: 2	1.0	600.0 94.9
Sync Speed: 1800	Generator Pitch: 0.7333		
Reactances		Per Unit	Ohms
SUBTRANSIENT - DIRECT AXIS $X_d$	0.1517	0.0466	
SUBTRANSIENT - QUADRATURE AXIS $X_q$	0.1517	0.0466	
TRANSIENT - SATURATED $X_d$	0.2201	0.0676	
SYNCHRONOUS - DIRECT AXIS $X_d$	2.9626	0.9101	
SYNCHRONOUS - QUADRATURE AXIS $X_q$	1.5062	0.4627	
NEGATIVE SEQUENCE $X_2$	0.1517	0.0466	
ZERO SEQUENCE $X_0$	0.0436	0.0134	
Time Constants		Seconds	
OPEN CIRCUIT TRANSIENT - DIRECT AXIS $T_{d0}$	2.6440		
SHORT CIRCUIT TRANSIENT - DIRECT AXIS $T_d$	0.1963		
OPEN CIRCUIT SUBTRANSIENT - DIRECT AXIS $T_{d00}$	0.0094		
SHORT CIRCUIT SUBTRANSIENT - DIRECT AXIS $T_d^*$	0.0072		
OPEN CIRCUIT SUBTRANSIENT - QUADRATURE AXIS $T_{q0}$	0.0082		
SHORT CIRCUIT SUBTRANSIENT - QUADRATURE AXIS $T_q^*$	0.0065		
EXCITER TIME CONSTANT $T_e$	0.1400		
ARMATURE SHORT CIRCUIT $T_a$	0.0303		
Short Circuit Ratio: 0.46	Stator Resistance = 0.0088 Ohms		Field Resistance = 1.5 Ohms
Voltage Regulation		Generator Excitation	
Voltage level adjustment: +/- 5.0%	No Load	Full Load, (rated) pf Series	Parallel
Voltage regulation, steady state: +/- 0.5%			
Voltage regulation with 3% speed change: +/- 0.5%	Excitation voltage: 8.7 Volts	39.98 Volts	Volts
Waveform deviation line - line, no load: less than 5.0%	Excitation current: 1.93 Amps	7.29 Amps	Amps
Telephone influence factor: less than 50			

Project Name: APTIM FAB SHOP  
Report Generated By: Wade Stewart  
Application Type: Manufacturing - Process Industry  
Comments:

#### PROJECT PARAMETERS

Frequency (hz): 60.0  
Duty: Standby  
Phase: Three  
Voltage: 120/208, Parallel Wye  
Fuel Type(s): Diesel  
Emissions Preference: US Stationary Emergency  
Country: United States  
Min Load Capacity (%): 30.0  
Max Load Capacity (%): 100.0

Number of Genset to Parallel: 1.0  
Ambient Temperature (F): 104.0  
Altitude (ft): 100.0  
Max Allowable Temperature Rise: 125.0  
Max Allowable Project Voltage Dip (%): 24.0  
Max Allowable Project Frequency Dip (%): 10.0

#### RECOMMENDED GENERATOR SET CONFIGURATION

Generator Set Name: B-Code: BC44  
Engine Name: R-Code: R098  
Fuel: Diesel  
Cooling System: High Ambient  
Alternator Frame: Reconnectable: Yes  
Alternator Winding: Full Single Phase Output: No  
Alternator Excitation: PMG Increased Motor Starting: No  
Temperature Rise: 80.0 Extended Stack: No  
Max SkVA: 3657.0

#### POWER SYSTEM SUMMARY

##### LOADS AND STEPS

Step #	Step Name	Load Name	Starting		Running		Cyclic Load	NonLinear Load
			kW	kVA	kW	kVA		
1	Step 1		128.27	142.36	128.27	142.36	395.62	
	LIGHTING	1	2.56	2.7	2.56	2.7	7.5	Y
	LIGHTING, EXT.	1	0.38	0.4	0.38	0.4	1.11	Y
	RECEPTACLES	1	34.02	37.8	34.02	37.8	105.05	
	KITCHEN EQUIP	1	6.12	6.8	6.12	6.8	18.9	
	HEAT	1	78.21	86.9	78.21	86.9	241.5	
	MOTOR, HVAC	1	6.98	7.76	6.98	7.76	21.56	Y
2	Step 2		165.7	235.72	24.24	29.54	82.09	
	AHU-1	1	32.41	40.51	4.76	5.98	28.77	
	AHU-2	1	32.31	54.69	4.76	5.56	15.45	
	AHU-3	1	68.69	85.86	9.96	12.44	59.82	
	AHU-4	1	32.29	54.66	4.76	5.56	15.45	
3	Step 3		429.49	499.83	329.28	367.1	1020.18	
	WELDING	1	332.5	350.0	315.0	350.0	972.65	
	AHU-5	1	32.29	54.66	4.76	5.56	15.45	
	AHU-6	1	32.41	40.51	4.76	5.98	28.77	
	AHU-7	1	32.29	54.66	4.76	5.56	15.45	

Note: Step Starting kW and kVA include all loads marked as cyclical from any prior step. Running kW and kVA assume all load marked as cyclical from any prior step. Values are total power system, assumed to be shared by paralleled gensets when applicable

1 of 8

2 of 8

#### CUMULATIVE SUMMARY

Step #	Step Name	Starting kW	Starting kVA	Running kW	Running kVA
1	Step 1	128.27	142.36	128.27	142.36
2	Step 2	293.97	378.08	152.51	171.9
3	Step 3	582	671.73	481.79	539

Effective Project Power Requirements: 529.59

Note: Cumulative Step Starting kW and kVA include all cyclical loads from prior steps. Cumulative Step Running kW and kVA assume all cyclical loads start and remain on at their assigned step. Values reflect the total power system, assumed to be shared by paralleled gensets when applicable.

#### ESTIMATED PRODUCT PERFORMANCE

##### PRODUCT CAPACITY

Project Running (kWe):	481.79	Project Max Starting(kWe):	582
Base Product Rating (kWe):	600	Project Effective Max Starting(kWe):	529.59
Site Adjusted Product Rating (kWe):	600	Max Starting kW:	844
Product kW Capacity (%):	80.3	Product Capacity (%):	62.75

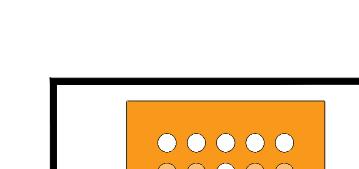
Project Running (kVA):	539	Total Running Non-Linear kVA:	10.86
Base Alternator Rating (kVA):	790	Max Allowed(THDV %):	10
Site Adjusted Alternator Rating (kVA):	790	Total Voltage Harmonic Distortion (THDV %):	0.25
Product kVA Capacity (%):	68.23		

Note: Capacity % values are within the user-selected project parameters for product capacity. If the number of generator sets is greater than one, the values here will reflect one generator set assuming the loads are evenly shared.

#### TRANSIENT PERFORMANCE

Step #	Step Name	Dip %	Voltage Recovery Time	Dip %	Frequency Recovery Time
1	Step 1	3.14	0.32	0.9	0.45
2	Step 2	4.21	0.41	1.16	0.58
3	Step 3	10.01	1.29	3.3	1.67

Note: Voltage and frequency dips and recovery times are estimates based on measured performance of prototype testing or advanced simulation. Recovery times may be assumed to be based on ISO8528-5 G2 class bandwidths unless otherwise stated in the model Spec Sheet. Typically, best practice may allow for approximately 5 seconds between application of load steps when designing your system. These values are within the user-selected project parameters for max allowable voltage and frequency dip performance.

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ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

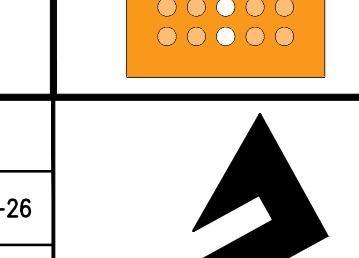
GENERATOR CALCULATIONS

FOR: ALABAMA PORT AUTHORITY

DWG NO: E-303

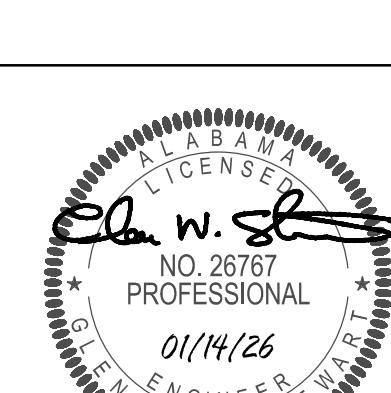
PROJECT NO: 4617

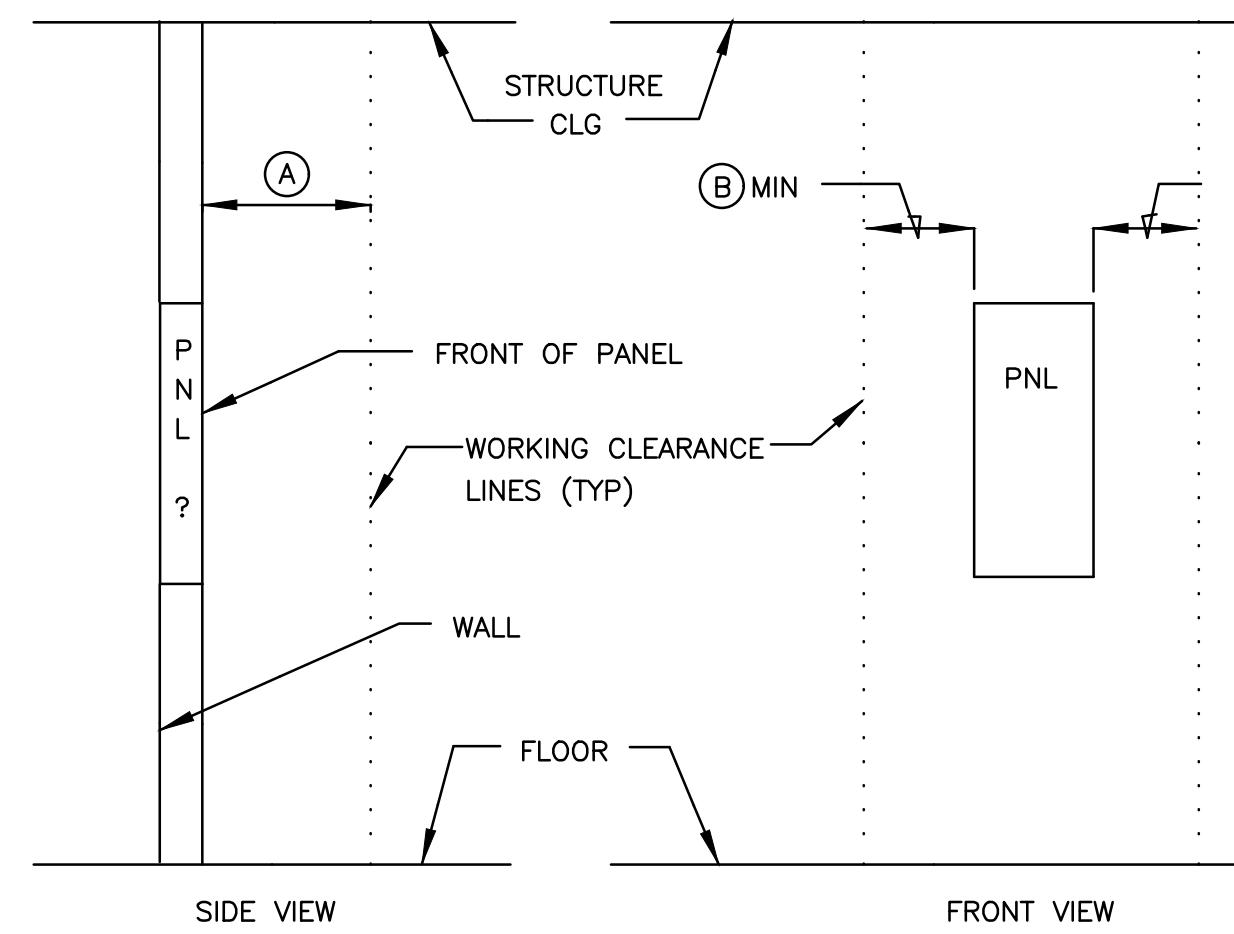
REV: E

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NOTES



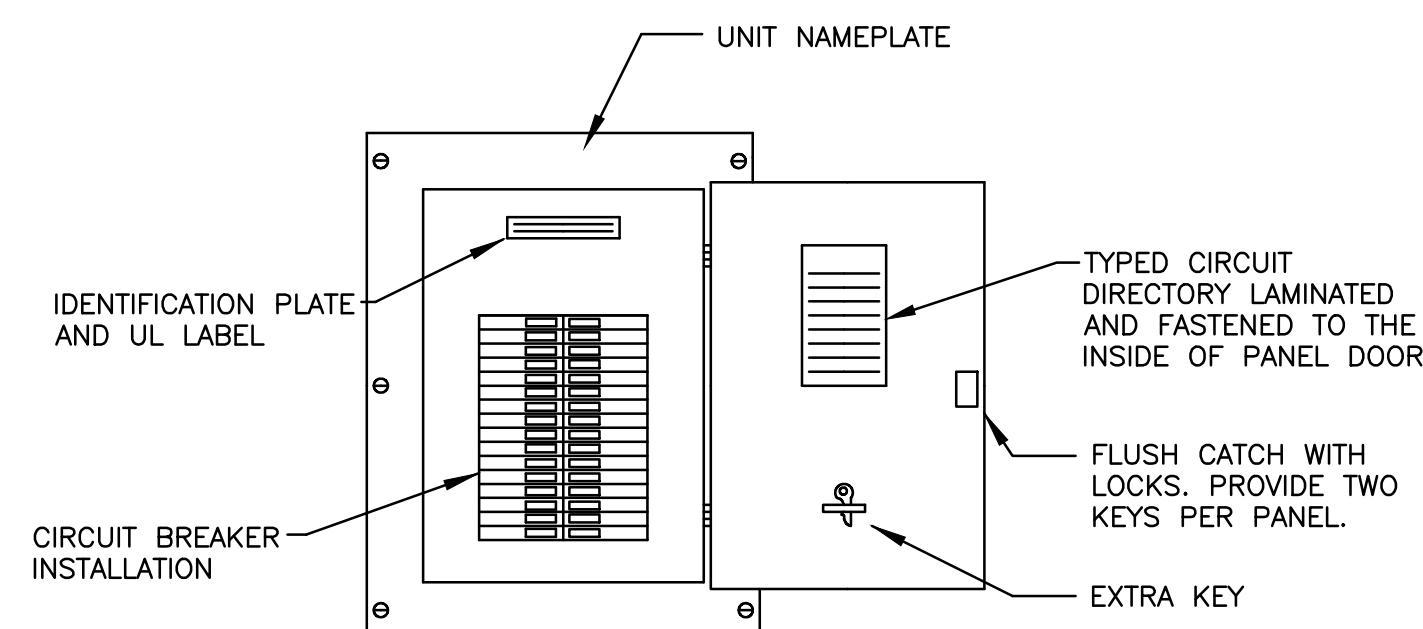


NOTES:

1. DIMENSIONS SHOWN ARE MINIMUM
2. WORKING CLEARANCES SHALL BE MAINTAINED FROM FLOOR TO STRUCTURAL CLG.
3. SEE NFPA 70, ARTICLE 110-16

DIMENSION BLOCK	
REF	ENGLISH
A	3'-6"
B	1'-3"
C	6'-7"

3 PANEL CLEARANCES  
E304 SCALE: NONE



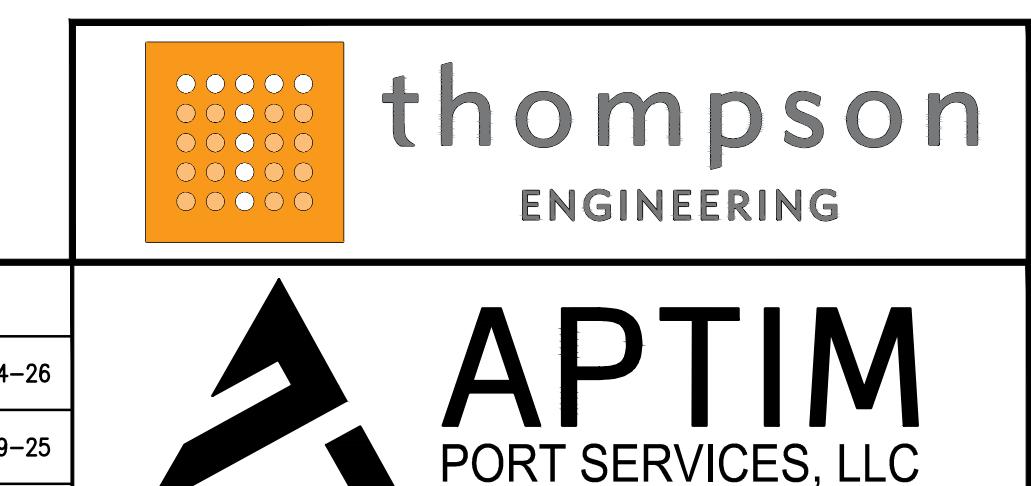
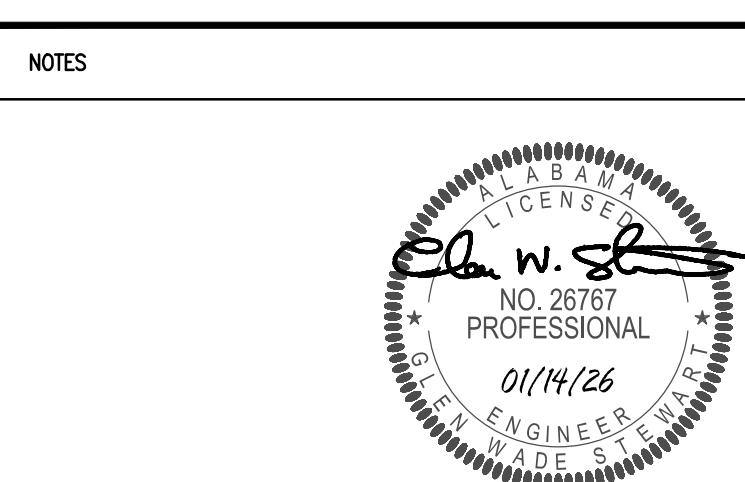
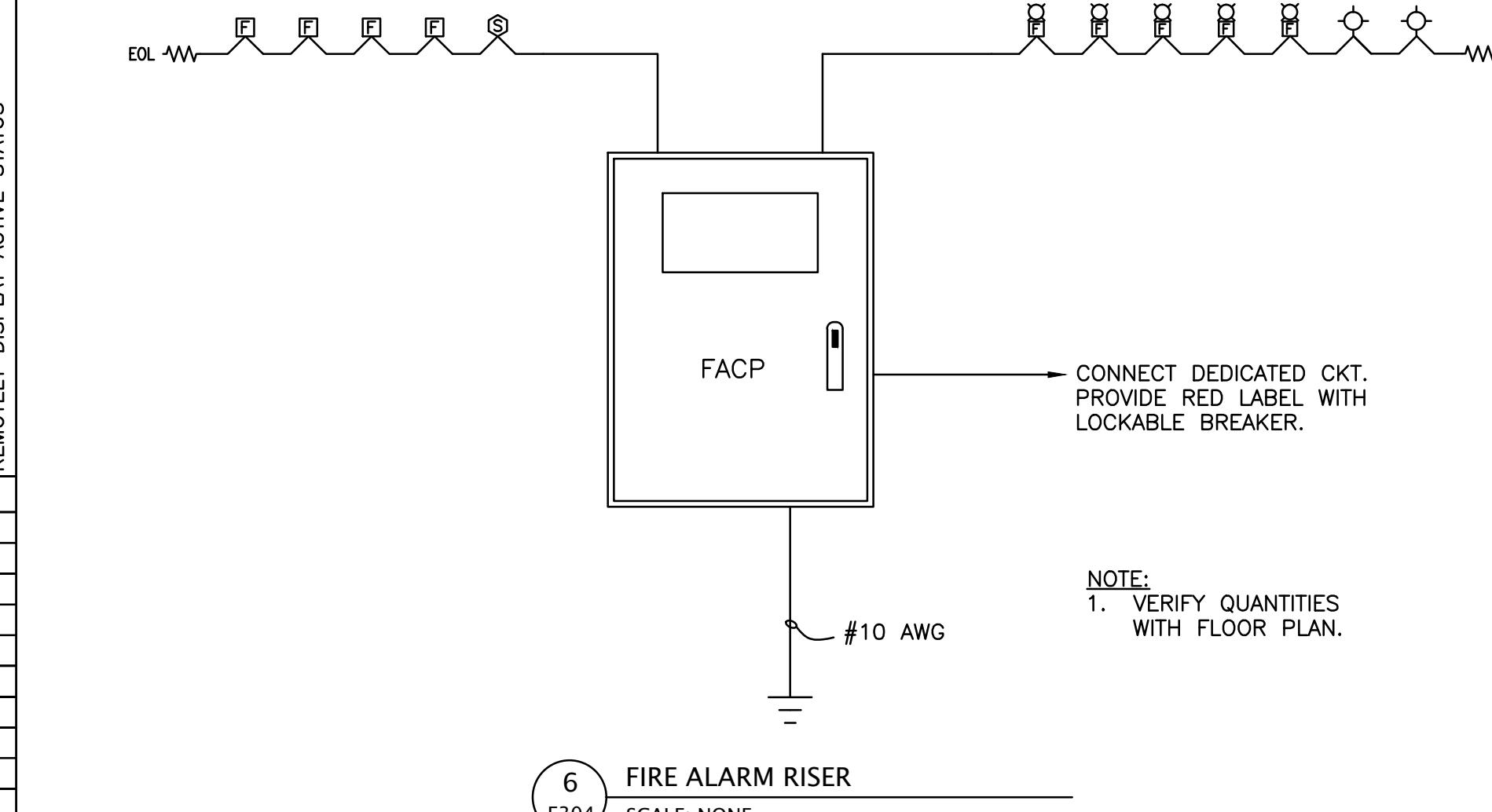
4 IDENTIFICATION - POWER PANELS  
E304 SCALE: NONE

BUILDING LIGHTING FIXTURE SCHEDULE																					
ID	DESCRIPTION	ELEC DATA		LAMP DATA		BASIS OF DESIGN				MOUNTING											
		LOAD VA	VOLTAGE	COLOR	LUMEN					CEILING	FLOOR	GROUND	POLE	ROOF	SUSP	WALL	FLUSH	PEDESTAL	PENDANT	RECESSED	TRACK
A	2x4, SURFACE, LED	67	120	40K	7746	LITHONIA	2BLTX4 72L ADSM EZ1 LP940 NLTAIR2 (RES7PDT)														10'-0"
AE	2x4, SURFACE, LED, EMER	70	120	40K	7746	LITHONIA	2BLTX4 72L ADSM EZ1 LP940 NLTAIR2 EL14L (RES7PDT)														10'-0"
B	2x4, RECESSED, LED	48	120	40K	7200	LITHONIA	2BLT4 60L ADSM EZ1 LP940 N100 (RES7PDT)														10'-0"
BE	2x4, RECESSED, LED, EMER	50	120	40K	7200	LITHONIA	2BLT4 60L ADSM EZ1 LP940 N100 EL14L														10'-0"
C	2x2, RECESSED, LED	35	120	40K	4800	LITHONIA	2BLT4 48L ADSM EZ1 LP940 N100														10'-0"
CE	2x2, RECESSED, LED, EMER	42	120	40K	4800	LITHONIA	2BLT4 48L ADSM EZ1 LP940 N100 EL7L														10'-0"
D	STRIP, LED	25	120	40K	3000	LITHONIA	ZL1N L48 30L FST MVOLT 40K 80CRI CALV LSXR														VERIFY
DE	STRIP, LED, EMER	25	120	40K	3000	LITHONIA	ZL1N L48 30L FST MVOLT 40K 80CRI E10W GALV LSXR														VERIFY
HB	HIGH BAY	174	120	40K	24000	LITHONIA	CPH2 24000LM SEF GCL MD 40K 80CRI														22'-0"
WPE	LED, WALLPACK, EMER	25	120	40K	1500	LITHONIA	WST LED P1 40K VW MVOLT PE E7WH														10'-0"
XE	EXIT	2	120	GRN	-	LITHONIA	LE S W (1/2) G EL N SD														9'-0"

SYSTEM OUTPUTS		NOTIFICATION																				
CTRL UNIT	ANNUNCIATION	ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	ACTIVATE TEMP4 CODED AUDIBLES AND VISUALS	UNUSED	UNUSED	UNUSED	UNUSED	HVAC AHU FAN SHUTDOWN	UNUSED	DISPLAY ACTIVE STATUS
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

SYSTEM INPUTS																									
1	SMOKE SENSOR/DETECTOR	X	X	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
2	MANUAL PULL STATION	X	X						X	X	X	X	X	X						X	X				
3	HEAT SENSOR/DETECTOR																								
4	CO SENSOR/BASE																								
5	DUCT SENSOR/DETECTOR SUPERVISORY			X	X				X			X	X												
6	WATERFLOW SWITCH	X	X							X	X	X	X	X											
7	TAMPER SWITCH			X	X				X			X	X												
8	POST INDICATOR VALVE SWITCH			X	X				X			X	X												
9	FIRE ALARM AC POWER FAILURE								X	X		X	X												
10	FIRE ALARM SYSTEM LOW BATTERY								X	X		X	X												
11	OPEN CIRCUIT OR GROUND FAULT								X	X		X	X												
12	CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT								X	X		X	X												

5 F/A SEQUENCE OF OPERATION  
E304 SCALE: NONE



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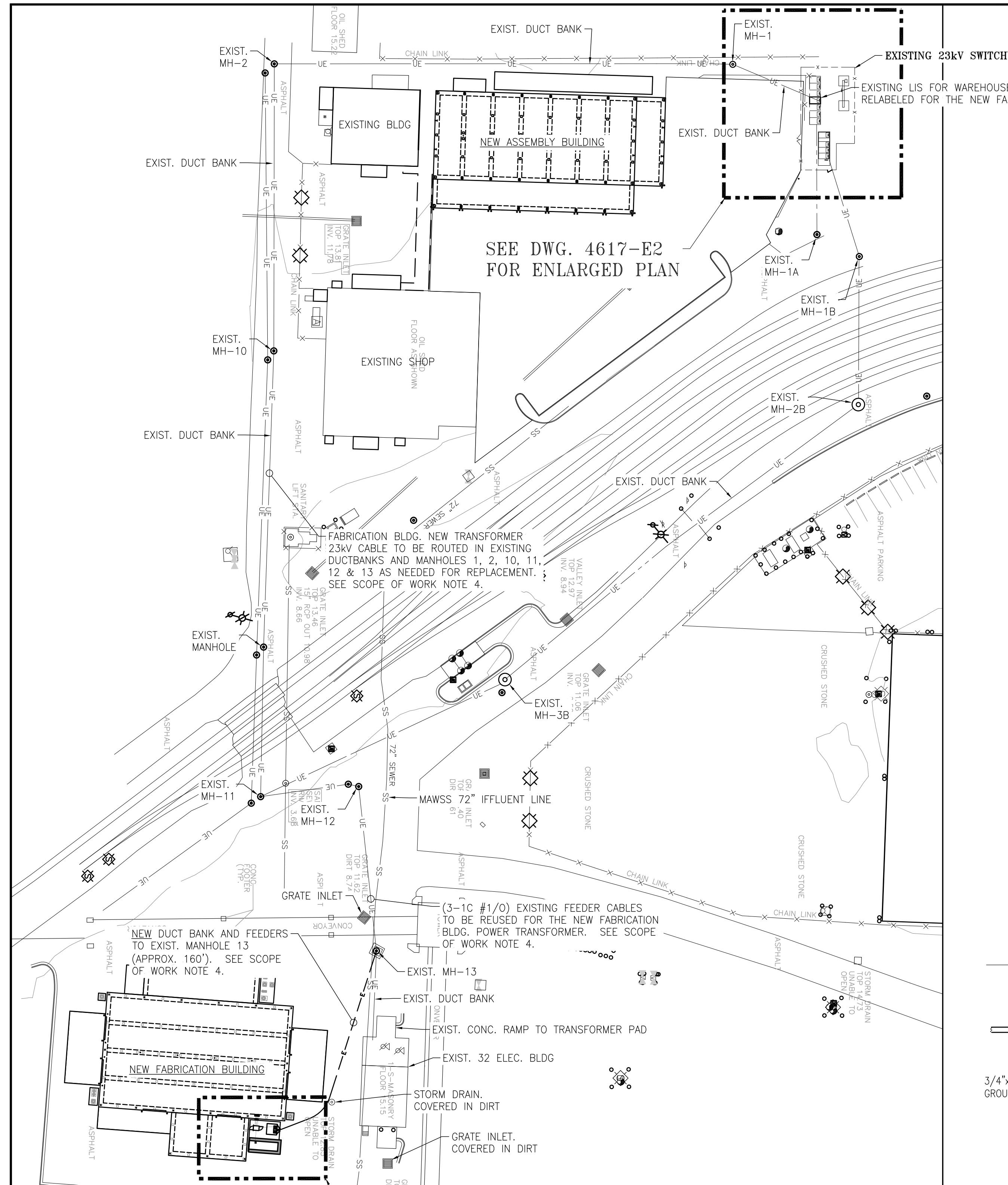


ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:  
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
ELECTRICAL DETAILS  
FOR: ALABAMA PORT AUTHORITY  
DWG NO: E-304  
REV: E

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Form: CMS-030-00-FM-02104 APTIM ANSI Dwg

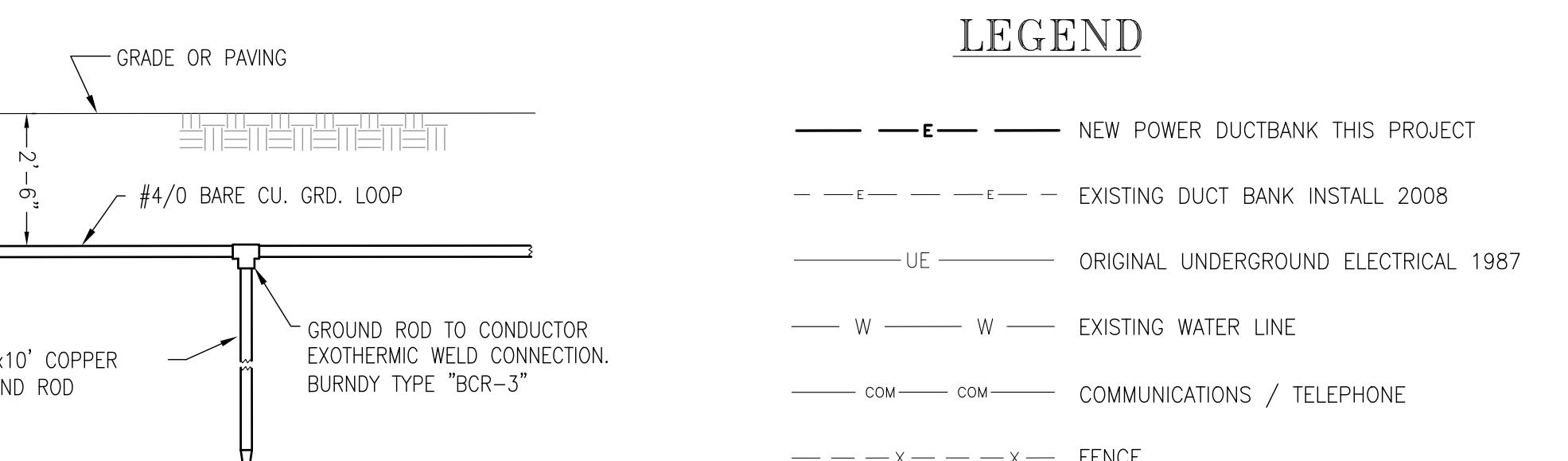


ELECTRICAL OVERALL SITE PLAN

1"=50'-0"

0 25' 50' 100' 150'  
SCALE: 1" = 50'-0"

#### GROUND ROD DETAIL



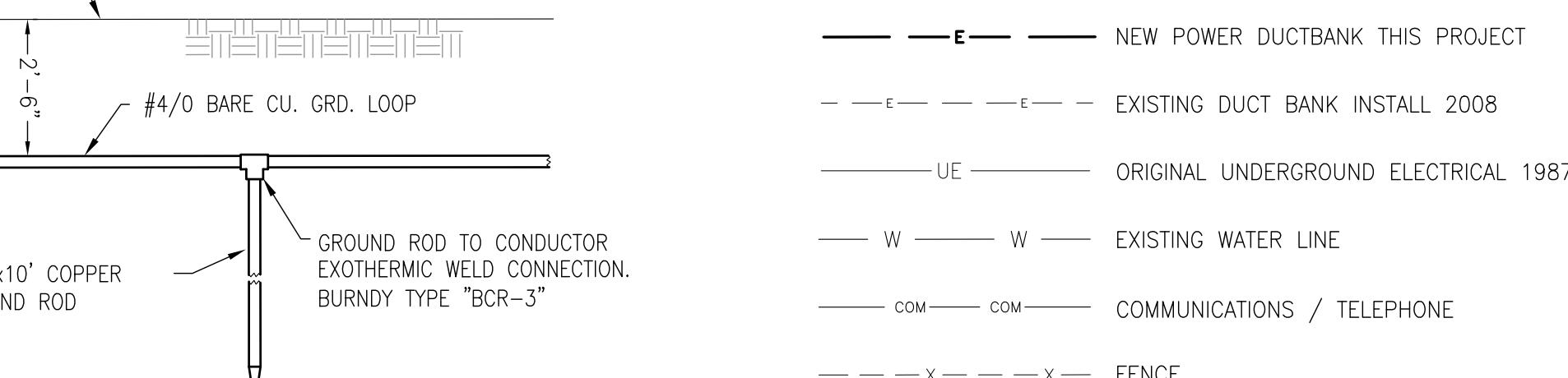
#### ELECTRICAL GENERAL SCOPE OF WORK:

1. THE WORK COVERED BY THE CONTRACT DRAWINGS 4617-E1 THRU 4617-E2 AND THE ELECTRICAL SPECIFICATIONS CONSISTS OF THE CONTRACTOR PROVIDING ALL LABOR, EQUIPMENT, AND MATERIALS AND PERFORMING ALL OPERATIONS NECESSARY TO PROVIDE THE COMPLETE INSTALLATION OF THE ELECTRICAL SERVICE REQUIRED FOR THE McDUFFIE TERMINAL NEW FABRICATION BLDG.
2. NEW FABRICATION BUILDING ELECTRICAL SERVICE: CONTRACTOR SHALL PURCHASE, PROVIDE AND INSTALL THE ELECTRICAL EQUIPMENT AS LISTED BELOW:
  - 2.1. NEW 1500kVA TRANSFORMER
  - 2.2. NEW AUTOMATIC TRANSFER SWITCH (A.T.S.)
  - 2.3. EXISTING GENERATOR (TO BE RELOCATED FROM CURRENT LOCATION AT McDUFFIE TERMINAL)
  - 2.4. NEW SWITCHBOARD 'MP' INSTALLATION AND FEEDER FROM A.T.S. ONLY (LOAD SIDE WIRING BY OTHERS)
  - 2.5. 23kV FEEDER FROM EXIST. 23kV SWITCHYARD SPARE LOAD INTERRUPTER SWITCH (LIS) TO NEW 1500kVA TRANSFORMER.
  - 2.6. EXISTING 23kV LIS FOR THE EXISTING WAREHOUSE BLDG TO BE DISCONNECTED AND REUSED FOR THE NEW ADMINISTRATION BLDG. POWER AFTER THE NEW FABRICATION BLDG. POWER IS CONNECTED.
  - 2.7. EXISTING 23kV SPARE LIS TO BE USED FOR NEW 23kV FEEDERS TO THE NEW FABRICATION BLDG.
  - 2.8. FABRICATION BLDG. POWER NEEDS TO BE WORKED AND INSTALLED BEFORE THE NEW ASSEMBLY BLDG. POWER IS REQUIRED.
  - 2.9. RECONDITIONING THE 23kV LOAD INTERRUPTER SWITCH INCLUDING THE UPGRADING OF FUSES.
  - 2.10. ALL NEW ELECTRICAL CONDUIT AND DUCT BANKS AS SHOWN ON PLAN DRAWING 4617-E2
  - 2.11. ALL CONDUIT AND WIRING BETWEEN THE TRANSFORMER, A.T.S., GENERATOR AND SWITCHBOARD 'MP'.
  - 2.12. ALL GROUNDING AS SHOWN ON DWGS. 4617-E1 AND E2 AND AS PER NEC ARTICLE 250.
  - 2.13. SEE NOTE 4 THIS DRAWING FOR REQUIRED CONDUIT AND CABLE REPLACEMENT IF NECESSARY.
3. APA IS RESPONSIBLE FOR COMMUNICATIONS, WIFI ANTENNA AND SECURITY CAMERA INSTALLATION REQUIREMENTS.
4. ELECTRICAL CONTRACTOR TO MEGGER EXISTING #1/O CABLES TO ACCEPTABLE MEGGING STANDARDS. IF MEGGERING CABLES RESULTS ARE NOT DETERMINED TO BE ACCEPTABLE THEN CONTRACTOR TO PULL NEW #1/O CABLES FROM EXISTING LOAD INTERRUPTER SWITCH (LIS) TO THE NEW TRANSFORMER AT THE NEW FABRICATION BUILDING. PROVIDE NEW CONDUITS AS NEEDED TO REPAIR AND COMPLETE THE CONDUIT ROUTING FROM THE NEW FABRICATION BUILDING TRANSFORMER TO THE EXISTING LIS LOCATION. SPLICING OF CONDUCTORS IS ALLOWED IN MANHOLES USING APPROVED UNDERWATER/WATERPROOF SPLICE KITS ONLY.

#### GENERAL GROUNDING NOTES:

1. PROVIDE GROUNDING AND BONDING SYSTEMS IN STRICT ACCORDANCE WITH THE LATEST PUBLISHED EDITION OF THE N.E.C., EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED HEREIN.
2. INTERCONNECTION OF NEUTRAL AND GROUND IS NOT PERMITTED EXCEPT AT SERVICE ENTRANCE EQUIPMENT.
3. INSTALL GROUNDING TO PERMIT SHORTEST AND MOST DIRECT PATH TO GROUND.
4. ALL ELECTRICAL CIRCUITS SHALL INCLUDE A SEPARATE GREEN, XHHW COPPER EQUIPMENT GROUNDING CONDUCTOR, SIZED PER THE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NEC, TO GROUND THE ELECTRICAL EQUIPMENT AND POWER PANELS.
5. GREEN INSULATED GROUND WIRE SHALL BE RUN IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS WITH PHASE AND/OR NEUTRAL CONDUCTORS.
6. GROUNDING CONNECTIONS ABOVE GRADE SHALL BE OF THE MECHANICAL TYPE. CONNECTIONS SHALL BE CLEANED TO BRIGHT METAL AND COATED WITH CORROSION INHIBITOR (T&B KOPR-SHIELD OR APPROVED EQUAL) PRIOR TO MAKE UP. CONNECTION SHALL THEN BE CLEANED AND SPRAYED WITH EPOXY ENAMEL AFTER MAKE UP.
7. GROUNDING CONNECTIONS UNDERGROUND SHALL BE EXOTHERMIC TYPE WELDS.
8. GROUND CONDUCTORS ROUTED THROUGH A CONCRETE SLAB OR WALL SHALL BE INSTALLED IN A 2" DIA. SCHEDULE 80 PVC CONDUIT SLEEVE. CONDUIT SLEEVE SHALL EXTEND 3" BEYOND THE FINISHED SURFACE. CONTRACTOR SHALL PROVIDE SUFFICIENT AMOUNT (LENGTHS) OF GROUND CONDUCTOR TO COMPLETE THE GROUNDING SYSTEM ABOVE GRADE WITHOUT SPLICES.

#### LEGEND

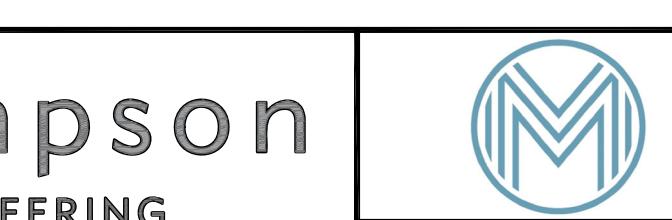


#### GENERAL NOTES:

1. SEE DWG. 4617-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4617-E2 FOR THE NEW FABRICATION BUILDING ELECTRICAL SERVICE PLAN.
2. ALL WORK AND WIRING SHALL COMPLY WITH OR EXCEED ALL NATIONAL ELECTRICAL CODE REQUIREMENTS, AND ALL CODE REQUIREMENTS OF THE STATE, CITY AND LOCAL ELECTRIC CODES.
3. ALL GROUNDING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LATEST APPLICABLE RULES OF THE NATIONAL ELECTRIC CODE INCLUDING ANY STATE, COUNTY, CITY AND LOCAL CODE REQUIREMENTS.
4. LABELS AND TAGS FOR WIRING SHALL CARRY A REVERSE TAGGING IDENTIFICATION TO INDICATE THE EQUIPMENT, DEVICE, TERMINAL BLOCK AND TERMINAL NUMBER ON THE OPPOSITE END. REFERENCE ANSI/TIA STANDARD 606-B FOR GENERIC LABELING PRACTICES THAT APPLIES TO ALL TYPES OF PREMISES.
5. CONDUIT AND WIRING: CONDUIT ROUTING ON PLAN DRAWINGS IS DIAGRAMMATIC AND SHALL BE USED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY THE EXISTING CONDITIONS OF EXISTING CONDUITS FOR OBSTRUCTIONS WITHIN. DIFFERENT VOLTAGES OF POWER AND CONTROL SYSTEMS SHALL BE ROUTED IN SEPARATE CONDUITS.
6. THE CONTRACTOR SHALL PERFORM POINT TO POINT CONTINUITY CHECKS OF ALL HARDWIRED CONNECTIONS PRIOR TO START-UP.
7. GROUNDING OF FIELD ENCLOSURES SHALL BE GROUNDED TO THE NEAREST GROUNDED STEEL STRUCTURE OR GROUNDING GRID WITH A NO. 20 BARE COPPER WIRE UNLESS NOTED OTHERWISE. CONDUIT SHALL NOT BE USED AS A RACEWAY TO GROUND ENCLOSURES. CONTRACTOR TO FOLLOW NEC GUIDELINES FOR SUITABLE GROUNDING METHODS.
8. CONDUIT:
  - 8.1. UNDERGROUND CONDUIT RUNS SHALL BE SCHED. 40 PVC
  - 8.2. UNDERGROUND ELBOWS SHALL BE RIGID GALV. STEEL
  - 8.3. EXPOSED CONDUIT SHALL BE RIGID GALV. STEEL
  - 8.4. EXPOSED CONDUIT FITTINGS SHALL BE GALVANIZED STEEL
  - 8.5. CONDUIT ENTERING EQUIPMENT SHALL BE BONDED VIA COPPER GROUND BUSHING
  - 8.6. DRAIN BREATHERS TO BE INSTALLED AT LOW POINTS IN CONDUIT RUNS
  - 8.7. 90° SWEEPS SHALL BE REQUIRED FOR ALL COMMUNICATIONS CONDUITS
9. MANHOLE CABLE INSTALLATION: CONTRACTOR SHALL INSTALL ALL CABLES IN MANHOLES & HANDHOLES ALONG THE WALLS USING CABLE SUPPORTS. CABLES SHALL ALWAYS TAKE THE LONGEST ROUTE AROUND THE MANHOLES AND HANDHOLES TO ALLOW FOR SLACK FOR FUTURE.
10. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY WITH APA THE LOCATIONS OF ANY POSSIBLE UNDERGROUND UTILITIES THAT ARE NOT PRESENTLY SHOWN ON THE CONTRACT DRAWINGS. THE UNDERGROUND UTILITIES THAT ARE SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE LOCATIONS ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATIONS. THE CONTRACTOR SHALL STOP ALL WORK IF ANY UNDERGROUND UTILITY IS DISCOVERED DURING EXCAVATION THAT WAS NOT PREVIOUSLY IDENTIFIED UNTIL APPROVED BY THE APA REPRESENTATIVE.
11. EXISTING CONDUIT AND STUB-UP LOCATIONS HAVE BEEN SHOWN IN GENERAL LOCATIONS IN RESPECT TO ON-SITE INVESTIGATIONS AND AVAILABLE AS-BUILT DRAWINGS RECEIVED FROM APA. THE CONTRACTOR SHALL VERIFY ALL CONDUIT SIZES, ROUTING AND STUB-UP LOCATIONS PRIOR TO PROJECT BID AND EXECUTION. CONTRACTOR TO REPORT ANY DISCREPANCIES WITH PREVIOUS AS-BUILT DRAWINGS TO THE APA PROJECT MANAGER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT SPARE CONDUITS AND SPACE CURRENTLY EXIST AS SHOWN ON THE PLAN DRAWINGS TO PERFORM THIS INSTALLATION PRIOR TO CONSTRUCTION.
12. INSTALLATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE ELECTRICAL EQUIPMENT MANUFACTURER. ANCHOR BOLTS SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED AS INSTRUCTED PER MANUFACTURER'S SPECIFICATIONS. MAINTAIN MINIMUM REQUIRED CLEARANCES PER MANUFACTURER'S SPECIFICATIONS.
13. AS-BUILTS: CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT THE END OF THE PROJECT COMPLETION FOR MAINTENANCE TO USE FOR EQUIPMENT REPAIRS AND TROUBLE SHOOTING. ALL TERMINATION DRAWINGS SHALL BE UPDATED AT THE END OF THE PROJECT TO REFLECT ACTUAL INSTALLATION AND TERMINATION OF ALL WIRING.
14. EXISTING AS-BUILT DRAWINGS ARE FOR GENERAL REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY REFERENCED EXISTING AS-BUILT INFORMATION INCLUDING, BUT NOT LIMITED TO, THE UNDERGROUND UTILITIES, BURIED CONDUIT AND DUCT BANKS AS REQUIRED FOR CONSTRUCTION INSTALLATION PURPOSES.
15. DUCT BANKS:
  - 15.1. PLASTIC DUCT SPACERS SHALL BE USED TO MAINTAIN DISTANCE BETWEEN CONDUITS THAT HAVE BEEN CALLED OUT ON THE DWG. THESE SPACERS SHALL BE PLACED PER MANUFACTURER'S INSTRUCTIONS, BUT NOT LESS THAN 2 SPACER ASSEMBLIES PER 10FT OF CONDUIT ASSEMBLY.
  - 15.2. PROVIDE GROUND WIRE SIZE PER NEC REQUIREMENTS FOR ALL CIRCUITS. USE OF RACEWAYS AS GROUNDING IS NOT ACCEPTABLE.
  - 15.3. ALL ELECTRICAL DUCT BANKS SHALL USE 3000 PSI RED DYE CONCRETE.
  - 15.4. DUCT BANKS SHALL BE A MIN. OF 36" BELOW FINISHED GRADE. DUCT BANKS SHALL BE SLOPED AT 0.5% BACK TO MANHOLES TO INSURE PROPER DRAINAGE OF CONDUITS.
  - 15.5. DEPTHS TO THE TOP OF DUCT BANKS GREATER THAN 4'-0" FOR DISTANCES OF SUBSTANTIAL LENGTH SHALL BE APPROVED BY THE APA REPRESENTATIVE PRIOR TO INSTALLATION. A MINIMUM SEPARATION OF 25" IS REQUIRED BETWEEN CONDUITS IN DUCT BANKS.
  - 15.6. COORDINATE DUCT BANK AND UTILITY CROSSING LOCATIONS WITH UTILITY PLANS FOR CLEARANCES AND DEPTHS.

#### ABBREVIATIONS

LIS LOAD INTERRUPTER SWITCH  
MP MAIN POWER PANEL  
A.T.S. AUTOMATIC TRANSFER SWITCH

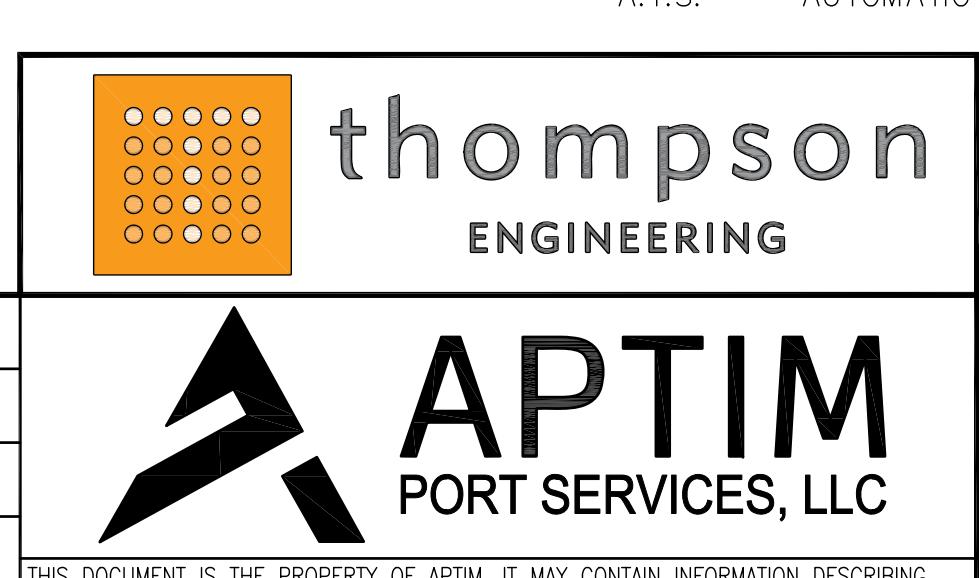


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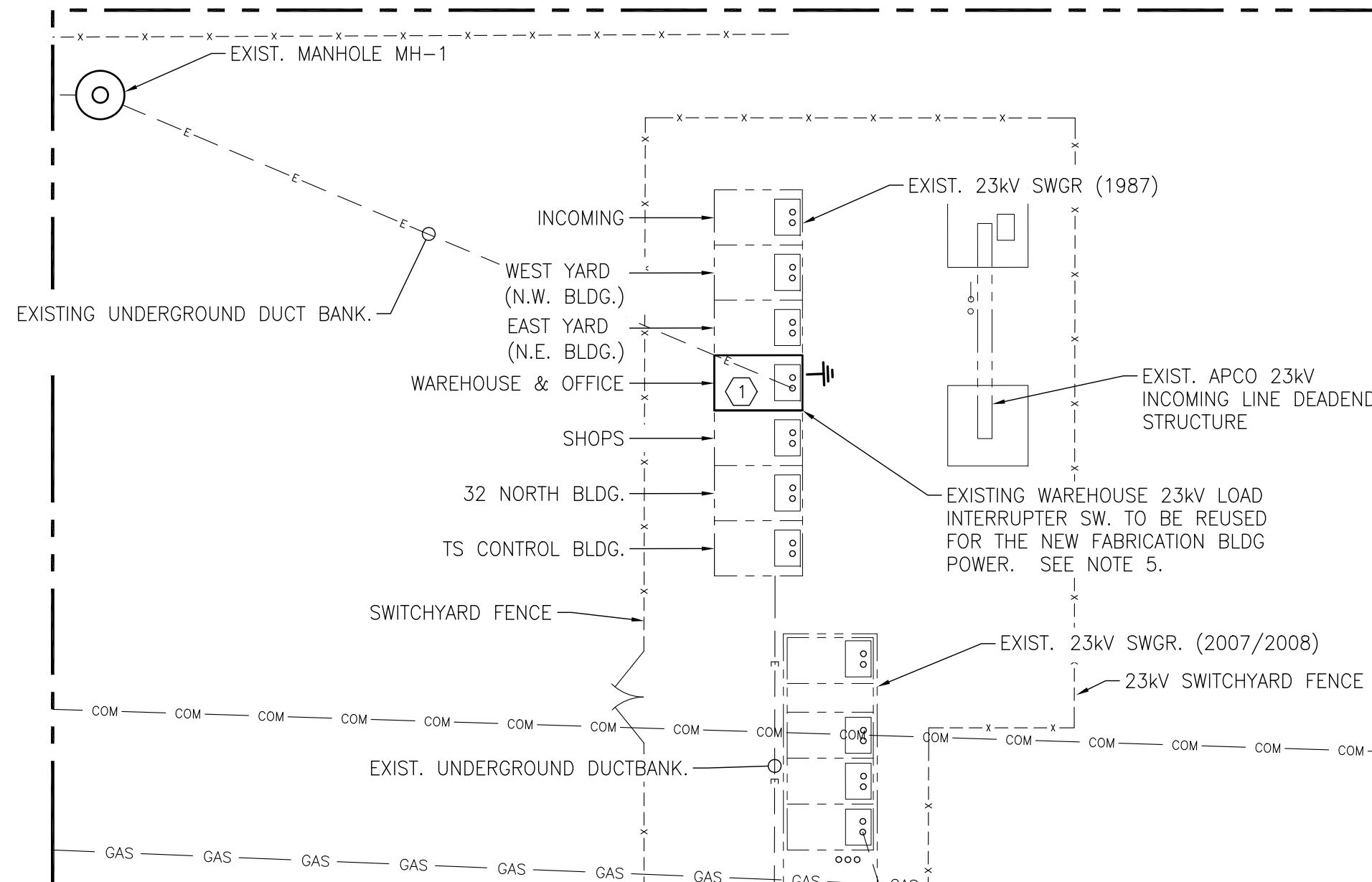
McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION SHOP PACKAGE  
ELECTRICAL OVERALL SITE PLAN & NOTES  
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: E1

REV: B

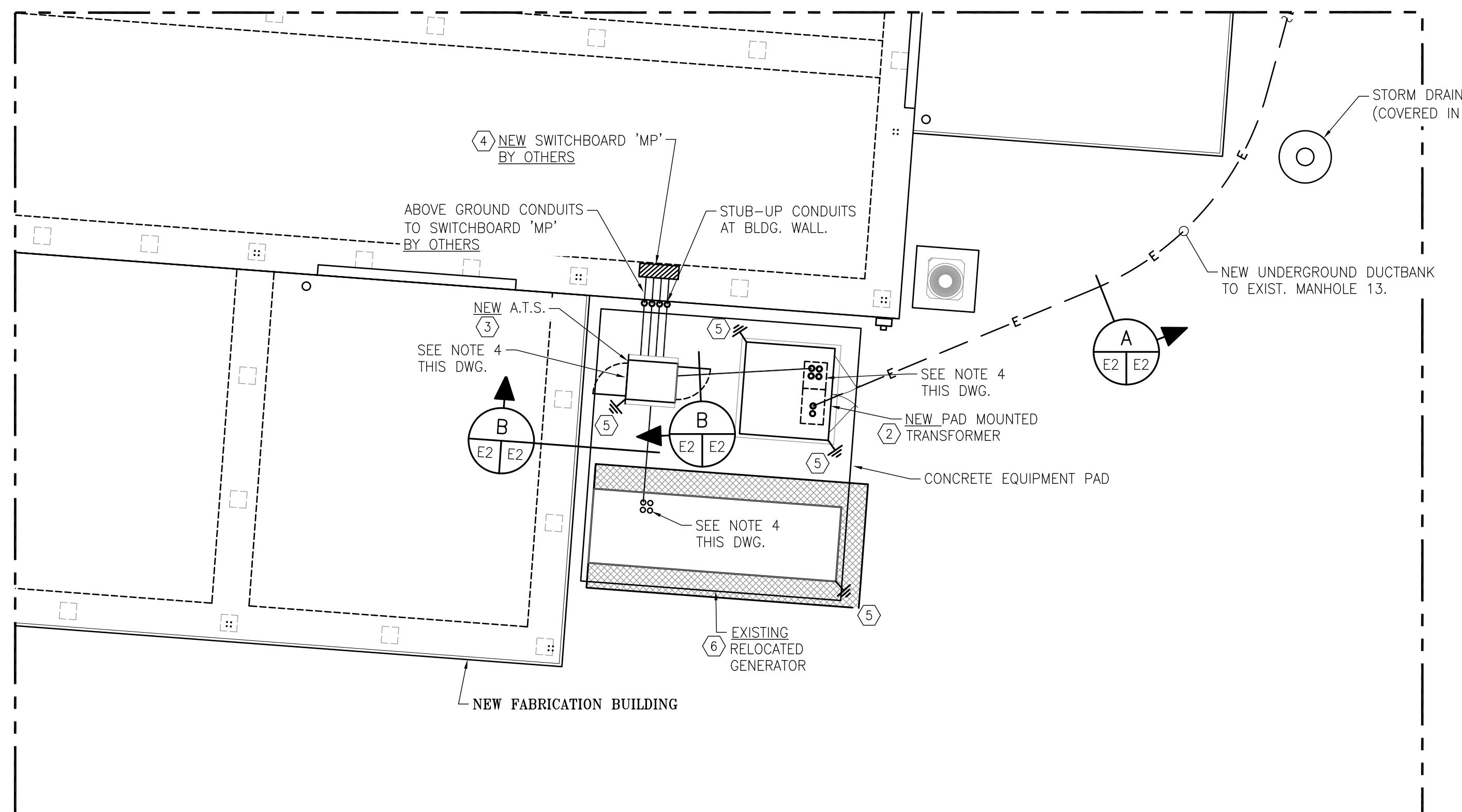


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ENLARGED POWER PLAN @ 23kV SWITCHYARD

N.T.S.



ENLARGED POWER PLAN @ FABRICATION BLDG.

N.T.S.

NOTES

- 1876-E2 McDUFFIE TERMINALS 2007/08 EXP-PKG 2 ELECTRICAL ENLARGED VIEW OF SUBSTATION & NEW DUCT BANK
- 1876-E2 McDUFFIE TERMINALS 2007/08 EXP-PKG 2 ELECTRICAL UNDERGROUND DUCT BANK DETAILS
- 4617-E-300 FABRICATION BUILDING ELECTRICAL RISER DIAGRAM AND DETAILS

REFERENCE DRAWINGS

B

ISSUED FOR BID

WMB

JEJ

RSG

01-14-26

A

100% DESIGN REVIEW

WMB

JEJ

RSG

09-09-25

DRAWN: WMB CK'D: JEJ APPD: RSG

DATE:

08-11-25

SCALE:

AS NOTED

CONDUIT & CABLE SCHEDULE

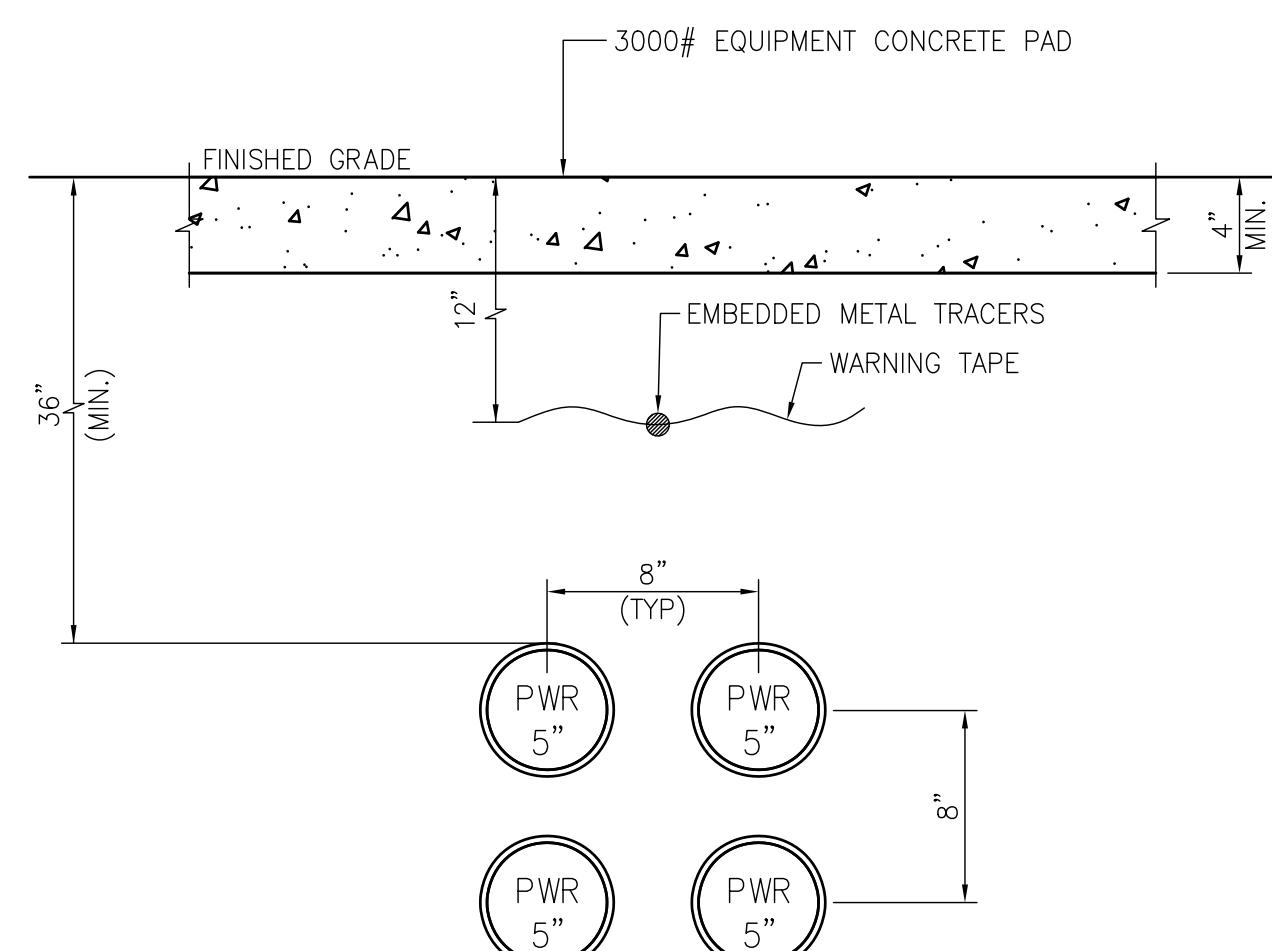
DUCT BANK SECTION	CONDUCTORS DESCRIPTIONS	CONDUIT SIZE	LENGTH ESTIMATE (FT)	ROUTING	REMARKS/COMMENTS
A	3-#1/0 MV105, 25KV, TYPE XLPE W/GND	5"	1045'	MEW FABRICATION BLDG. 23KV XFMER TO EXIST. MANHOLE MH-13. SPLICE TO EXISTING CONDUCTORS FROM MAIN 25KV SWITCHGEAR EXISTING LIS SWITCH	EXISTING CABLES ARE ROUTED THRU EXIST. MANHOLES 1, 2, 10, 11, 12 & 13
B	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	5"	50'	TRANSFORMER TO ATS SWITCH	NEW CABLES ROUTED IN NEW DUCT BANK
B	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	5"	60'	EMERGENCY GENERATOR TO ATS SWITCH	NEW CABLES ROUTED IN NEW DUCT BANK
	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	4"	50'	ATS SWITCH TO SWITCHBOARD 'MP'	CONDUIT AND CABLES BY OTHERS

MAJOR ELECTRICAL EQUIPMENT LIST

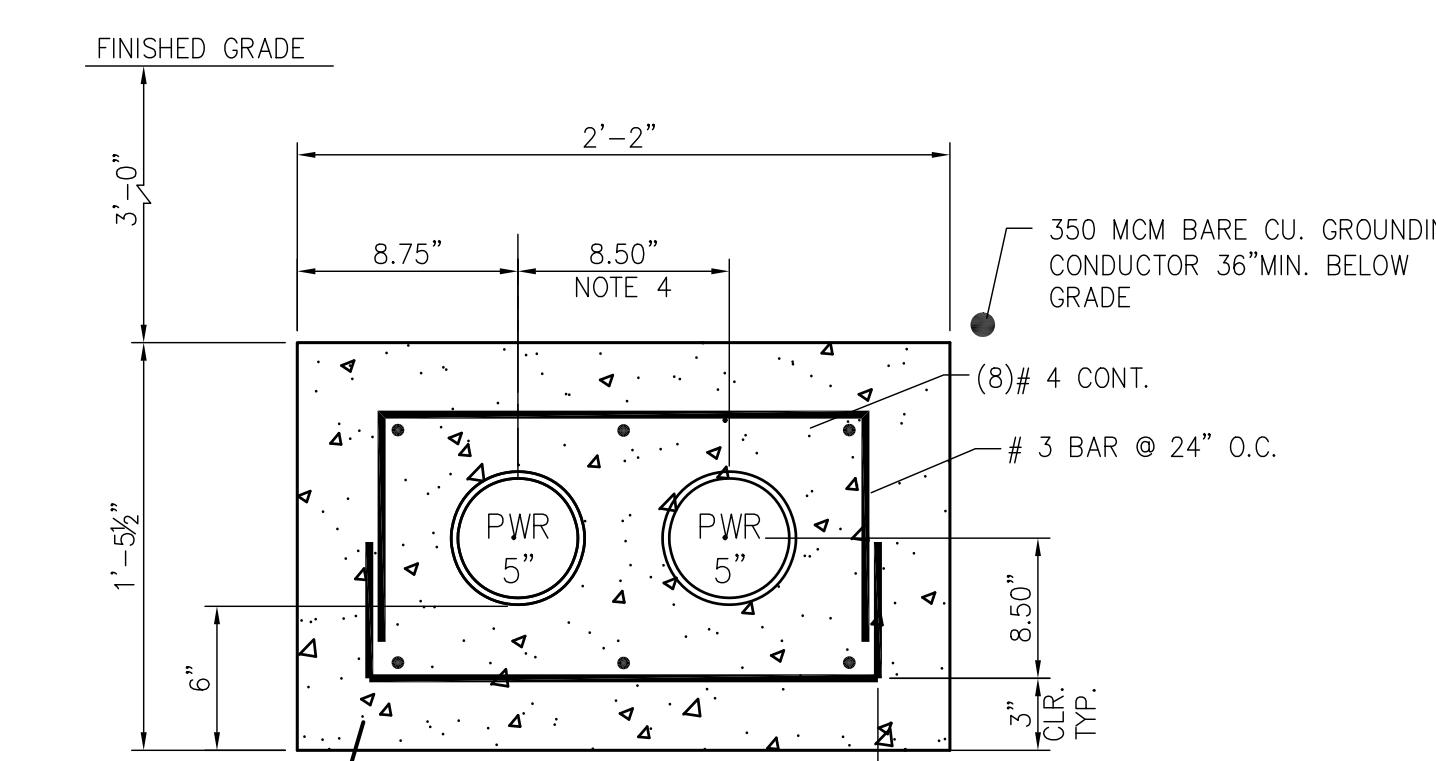
MARK	QTY	DESCRIPTION
①	01	EXISTING 23KV FUSED LOAD INTERRUPTER SWITCH (LIS) (REPLACE EXISTING FUSES WITH NEW FUSES.)
②	01	PAD MOUNTED COMPARTMENTAL TRANSFORMER, 1500kVA, 22.9kV-480/277V, 3Ø4W, EATON'S COOPER POWER SERIES OR APPROVED EQUAL
③	01	AUTOMATIC TRANSFER SWITCH (ATS), 1600A, ASCO SERIES 300 OR APPROVED EQUAL
④	01	SWITCHBOARD 'MP' 1600A, 3Ø4W, 480/277V (SUPPLIED AND INSTALLED BY OTHERS)
⑤	A/R	COPPER GROUND ROD, 3/4"Ø X 10 FT. LONG. MINIMUM 2/O CU GREEN INSULATED GROUND REQUIRED UNLESS NOTED OTHERWISE ON THIS DRAWING. SEE NOTE 3 THIS DWG.
⑥	01	EXISTING GENERATOR - RELOCATE FROM EXISTING LOCATION AT McDUFFIE TERMINAL

NOTES

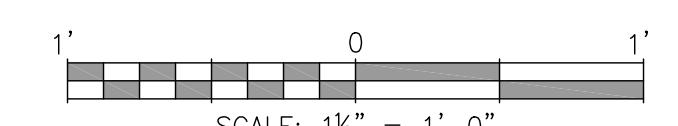
- SEE DWG. 4617-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4617-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL GROUNDING NOTES, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- DUCT BANK SHALL BE ENCASED IN RED DYE CONCRETE WITH AT LEAST THREE INCHES OF CONCRETE AT THE TOP AND BOTTOM AND THREE INCHES OF CONCRETE ON EACH SIDE. A HORIZONTAL AND VERTICAL SEPARATION BETWEEN DUCTS OF 3" INCHES SHALL BE MAINTAINED BY INSTALLING SPACERS WITH HORIZONTAL AND VERTICAL LOCKING ON INTERVALS OF 8 TO 10 FEET.
- ALL EQUIPMENT GROUNDS TO BE BONDED TO THE EXISTING SWITCHYARD GROUNDING GRID. CONTRACTOR TO REFERENCED THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ARTICLE 250 FOR SWITCHGEAR, TRANSFORMER AND GENERATOR GROUNDING REQUIREMENTS AND GUIDELINES. CONTRACTOR TO REFERENCED NFPA-780 FOR LIGHTNING PROTECTION REQUIREMENTS AND GUIDELINES.
- DUCT BANK STUB-UP LOCATIONS: REFERENCED CIVIL/STRUCTURAL DRAWINGS AND ELECTRICAL EQUIPMENT SHOP DRAWINGS FOR DUCT BANK STUB-UP LOCATIONS BEFORE THE INSTALLATION OF UNDERGROUND DUCT BANKS AND CONDUITS.
- EXISTING 23KV LOAD INTERRUPTER SWITCH (LIS) AND FEEDER CABLE FOR THE EXISTING WAREHOUSE BLDG TO BE REUSED FOR THE NEW FABRICATION BLDG. POWER. SEE DRAWING 4617-E1 SCOPE OF WORK NOTE 4 FOR ELECTRICAL SCOPE OF WORK.



SECTION  
1-1/2"=1'-0"



SECTION  
1-1/2"=1'-0"



thompson  
ENGINEERING



ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS  
NEW FABRICATION BUILDING PACKAGE  
ELECTRICAL SERVICE PLAN & DETAILS

FOR: ALABAMA PORT AUTHORITY

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PROJECT NO: 4617 DWG NO: E2 REV: B



