

# A NEW BUILDING FOR ORANGE BEACH TRAIL SHOP / WILDLIFE CENTER

ORANGE BEACH, ALABAMA  
PHASE I



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PHASE I DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

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SHEET NO.:

**T1.1**

TITLE SHEET  
PHASE I

## GENERAL NOTES

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES, AND INDUSTRY STANDARDS FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.
2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED HEREIN. DEVIATIONS FROM THESE DRAWINGS ARE AT THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
3. IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
4. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUD OR MASONRY UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASE OF MATERIALS, FABRICATION, OR BEGINNING CONSTRUCTION.
6. PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN ALL SOIL WHICH FLOWS OFF-SITE.
7. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
8. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
9. NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES ARE ALLOWED.
10. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROMPTLY.
11. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
12. ALL MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS ARE TO BE FULLY COORDINATED WITH THE ARCHITECTURAL DOCUMENTS.
13. ALL PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE DESIGNED AND INSTALLED BY A STATE OF ALABAMA LICENSED AND CERTIFIED CONTRACTOR AND THEIR RESPECTIVE DISCIPLINE. PLUMBING CONTRACTOR SHALL SHOW EVIDENCE OF THEIR ALABAMA PLUMBERS AND GAS FITTERS LICENSE; HEATING AND COOLING CONTRACTOR'S LICENSE; AND ALABAMA ELECTRICAL CONTRACTOR'S LICENSE.
14. PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS SHALL PROVIDE THE OWNER WITH SHOP DRAWINGS AND SPECIFICATIONS PRIOR TO ORDERING AND INSTALLATION. ALL WORK SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL PLUMBING AND GAS CODES, 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL FIRE CODE, AND 2017 NATIONAL ELECTRICAL CODE.
15. **DO NOT SCALE DRAWINGS!** DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENT OVER NOTED DIMENSIONS.
16. ALL CONTRACTOR'S AND SUB-CONTRACTOR'S SHALL COMPLY WITH OSHA REQUIREMENTS.
17. ALL EXTERIOR DOORS AND WINDOWS SHALL BE DESIGNED AND INSTALLED TO WITHSTAND DESIGN WIND LOADS BASED ON ASCE 7-16 AND 160 MPH WIND RATING.
18. ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

## CONTACT INFORMATION

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## PROJECT SUMMARY PHASE I

IN GENERAL, THE WORK FOR PHASE I OF THIS PROJECT WILL CONSIST OF A 7,316 SQUARE FOOT PRE ENGINEERED METAL BUILDING ON CONCRETE SLAB AND WILL REQUIRE A "PHASED APPROACH"

**CONCRETE SLAB** - PROVIDE THICKENED SLAB AT ALL LOAD BEARING WALLS AS REQUIRED. REFER TO STRUCTURAL FOUNDATION PLANS FOR REQUIREMENTS. PROVIDE SEALED CONCRETE AT ALL AREAS SCHEDULED. THE MECHANICAL ELECTRICAL AND PLUMBING CONTRACTOR WILL COORDINATE ALL STUB UP LOCATIONS. COORDINATE AS REQUIRED ALL PHASE II CONDITIONS AND PREP AS REQUIRED.

**METAL BUILDING** - THE METAL BUILDING INTERIOR WILL CONSIST OF A COMPLETE BUILDING SHELL WITH ALL INTERIOR INSULATION, BRACING AND PREP AS REQUIRED FOR PHASE II CONSTRUCTION. PROVIDE SIMPLE SAVER INSULATION @ ENTIRE PERIMETER PURLIN CAVITY AND ROOF PURLINS EXCEPT WHERE OMITTED AT BREEZEWAY AREA. VERIFY AND PROVIDE ALL DOOR AND WINDOW ROUGH OPENINGS AS REQUIRED. THE METAL BUILDING EXTERIOR WILL CONSIST OF PROVIDING A COMPLETE EXTERIOR METAL BUILDING WITH ALL TRIM, FLASHING, GUTTERS AND DOWNSPOUTS. PROVIDE WEATHER RESISTANT PAINT FOR ALL EXTERIOR EXPOSED STEEL.

**DOORS AND WINDOWS** - PROVIDE ALL UNITS SCHEDULED IN PHASE I WITH PAINTED INTERIOR AND EXTERIOR SURFACES. PROVIDE ALL FINISHED HARDWARE.

**MECHANICAL** - PROVIDE ALL ITEMS REQUIRED FOR PHASE I. (SEE MECHANICAL PHASE I DRAWINGS).

**ELECTRICAL** - PROVIDE ALL STUB UPS AND IN SLAB CONDUIT AS REQUIRED FOR PHASE I. PROVIDE ELECTRICAL METER PANEL AND SUB PANELS WITH ALL REQUIRED ELECTRICAL WORK FOR PHASE I. (SEE ELECTRICAL PHASE I DRAWINGS).

**PLUMBING** - PROVIDE ALL UNDERGROUND PIPING, IN SLAB STUB UPS AND ALL PLUMBING WORK AS REQUIRED FOR PHASE I. PROVIDE WATER AND SEWER CONNECTIONS AS REQUIRED (SEE PLUMBING PHASE I DRAWINGS).

## PHASE I ADD ALTERNATES

**ADD ALTERNATE 1** - ADD ALTERNATE 1 CONSISTS OF A 2,368 S.F. COMPLETE INTERIOR FITUP OF THE TRAIL SHOP SPACE. THIS FIT UP INCLUDES INTERIOR WALLS, DOORS, MILLWORK, FIXTURES, MECHANICAL EQUIPMENT, ELECTRICAL, APPLIANCES AND FINISHES THROUGHOUT. ALSO A 1,022 S.F. SECOND FLOOR OR "MEZZANINE" WILL BE PART OF THIS ADD ALTERNATE, INCLUDING STAIRS AND FINISHES. IN GENERAL, THIS ADD ALTERNATE IS MEANT TO TAKE THE TRAIL SHOP SPACE FROM ITS STATE AT THE END OF THE BASE PHASE I TO A COMPLETE "TURN KEY" SPACE, WITH ALL NECESSARY TRAIL SHOP SYSTEMS IN PLACE AND IN NEW WORKING ORDER. UPON COMPLETION OF THIS ADD ALTERNATE 1 THE TRAIL SHOP SIDE OF THE BUILDING IS MEANT TO BE MOVE IN READY.

**ADD ALTERNATE 2** - ADD ALTERNATE 2 CONSISTS OF THE CONSTRUCTION, INSTALLATION AND FINISHING OF ENTRY ELEMENTS AS DESIGNATED ON THESE CONSTRUCTION DOCUMENTS. IN GENERAL THIS INCLUDES AN ENTRY SIGNAGE ELEMENT, WOOD TRELLIS, WOOD LOW WALL, WOOD BENCH AND A WOOD FRAMED ELEMENT AT THE REAR OF THE BREEZEWAY.

IN GENERAL, AT THE COMPLETION OF PHASE I AND ADD ALTERNATE 1 & 2 ALL BUT THE WILDLIFE SPACE IS MEANT TO BE COMPLETE AND ALL SYSTEMS INSTALLED AND IN NEW WORKING ORDER.

## SHEET INDEX

- TITLE**  
 T1.1 - TITLE SHEET AND GENERAL NOTES
- CIVIL**  
 01 TITLE SHEET  
 02 NOTES  
 03 EXISTING AND DEMO  
 04 GEOMETRY PLAN  
 05 GEOMETRY PLAN 2  
 06 GRADING AND DRAINAGE  
 07A GRADING AND DRAINAGE 2  
 07B GRADING AND DRAINAGE  
 08 UTILITY PLAN  
 09 EROSION CONTROL PLAN  
 10 EROSION CONTROL DETAILS  
 11 CONSTRUCTION DETAILS  
 12 CONSTRUCTION DETAILS 2  
 13 CONSTRUCTION DETAILS 3  
 14 WATER DETAILS  
 15 SEWER DETAILS
- STRUCTURAL**  
 S1.1 - FOUNDATION PLAN AND DETAILS
- ARCHITECTURAL**  
 BASE PHASE I  
 RA1.1 - FLOOR PLAN (REFERENCE)  
 A1.0 - ADA STANDARDS  
 A1.1 - FLOOR PLAN / PHASE I  
 A2.1 - SCHEDULES AND DETAILS / PHASE I  
 A3.1 - EXTERIOR ELEVATIONS / PHASE I  
 A4.1 - BUILDING SECTIONS / PHASE I  
 A4.2 - WALL SECTIONS / PHASE I  
 A7.1 - ROOF PLAN / PHASE I  
 ADD ALTERNATE 1 (TRAIL SHOP FIT UP)  
 ALT 1 LS1.1 - LIFE SAFETY PLAN / ADD ALT 1  
 ALT 1 A1.1 - FLOOR PLAN / ADD ALT 1  
 ALT 1 A2.1 - SCHEDULES AND DETAILS / ADD ALT 1  
 ALT 1 A3.1 - EXTERIOR ELEVATIONS / ADD ALT 1  
 ALT 1 A4.1 - BUILDING SECTIONS / ADD ALT 1  
 ALT 1 A4.2 - WALL SECTIONS / ADD ALT 1  
 ALT 1 A5.1 - INTERIOR ELEVATIONS / ADD ALT 1  
 ALT 1 A6.1 - REFLECTED CEILING PLAN / ADD ALT 1  
 ADD ALTERNATE 2 (ENTRY ELEMENTS)  
 ALT 2 A1.1 - FLOOR PLAN / ADD ALT 2  
 ALT 2 A4.3 - SECTIONS AND DETAILS / ADD ALT 2  
 ALT 2 A4.4 - SECTIONS AND DETAILS / ADD ALT 2  
 ALT 2 A4.5 - SECTIONS AND DETAILS / ADD ALT 2
- PLUMBING**  
 BASE PHASE I  
 P1.0 - PLUMBING NOTES, SCHEDULES AND LEGEND  
 P1.1 - PLUMBING PLAN  
 P2.0 - SANITARY WASTE RISERS  
 ADD ALTERNATE 1 (TRAIL SHOP FIT UP)  
 P1.0 - PLUMBING NOTES, SCHEDULES AND LEGEND  
 P1.1 - PLUMBING PLAN BASE BID  
 P2.0 - SANITARY WASTE RISER  
 P2.1 - PLUMBING DETAILS
- MECHANICAL**  
 ADD ALTERNATE 1 (TRAIL SHOP FIT UP)  
 M1.0 - HVAC LEGEND, NOTES AND SCHEDULES  
 M1.1 - HVAC PLAN FIRST FLOOR  
 M1.2 - HVAC PLAN SECOND FLOOR  
 M2.0 - HVAC DETAILS
- ELECTRICAL**  
 BASE PHASE I  
 E1.0 - ELECTRICAL NOTES AND LEGEND  
 E1.1 - POWER & AUX PLAN BASE BID  
 E1.2 - LIGHTING PLAN  
 E3.0 - ELECTRICAL RISER AND DETAILS  
 ADD ALTERNATE 1 (TRAIL SHOP FIT UP)  
 E1.0 - ELECTRICAL NOTES AND LEGEND  
 E1.1 - LIGHTING PLAN ALTERNATES  
 E1.2 - LIGHTING PLAN 2ND FLOOR ALTERNATES  
 E2.1 - POWER & AUX FIRST FLOOR ALTERNATES  
 E2.2 - POWER PLAN SECOND FLOOR  
 E3.0 - ELECTRICAL RISER AND DETAILS



VICINITY MAP



# CITY OF ORANGE BEACH

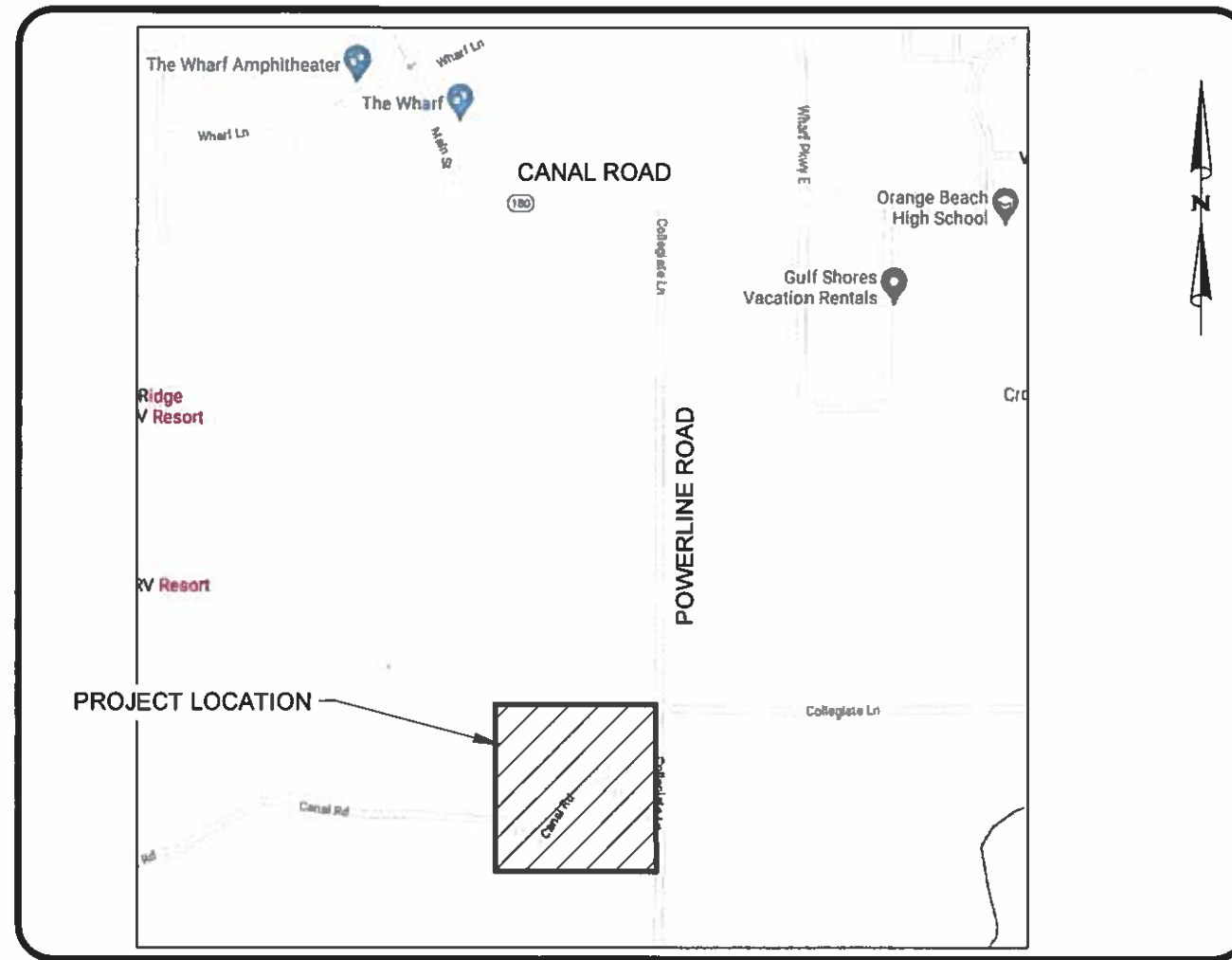
## TRAIL SHOP / WILDLIFE CENTER

### POWERLINE ROAD, ORANGE BEACH, AL

### CIVIL CONSTRUCTION DRAWINGS

MAY 2021

Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	NOTES
3	EXISTING AND DEMO
4	GEOMETRY PLAN
5	GEOMETRY PLAN 2
6	GRADING AND DRAINAGE
7A	GRADING AND DRAINAGE 2
7B	GRADING AND DRAINAGE
8	UTILTY PLAN
9	EROSION CONTROL PLAN
10	ECP DETAILS
11	CONSTRUCTION DETAILS
12	CONSTRUCTION DETAILS 2
13	CONSTRUCTION DETAILS 3
14	WATER DETAILS
15	SEWER DETAILS



VICINITY MAP

UTILITY PROVIDERS	
SANITARY SEWER	CITY OF ORANGE BEACH
WATER	ORANGE BEACH WATER AUTHORITY
POWER	BALDWIN EMC
TELEPHONE	CENTURYLINK

PREPARED BY:



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KRISTA LANDENWICH, P.E.

ALABAMA LICENSE NO. 30410



5.20.21

DATE



**UTILITY PLAN NOTES**

1. THE CONTRACTOR SHALL NOTIFY SAWGRASS LLC, CONSTRUCTION SURVEILLANCE REPRESENTATIVE AND LOCAL JURISDICTIONAL INSPECTOR 48 HOURS BEFORE THE BEGINNING OF EACH PHASE OF CONSTRUCTION.
2. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
3. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN.
4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
5. THE CONTRACTOR IS REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS, HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR TO CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE.
7. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING AND COMPACTED SUBGRADE.
8. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES.
9. FIRE HYDRANT AND WATER MAINS TO BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING UTILITIES, CROSS-DRAIN PIPES AND HEADWALLS.
11. ALL WATER AND SANITARY SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LOCAL UTILITY COMPANIES STANDARD SPECIFICATIONS.
12. UNLESS DUCTILE IRON PIPE IS USED, MINIMUM COVER FOR SANITARY SEWER SHALL BE THREE(3) FEET.
13. ALL MANHOLES WITHIN THE 100-YEAR FLOOD PLAIN SHALL BE CONSTRUCTED THREE(3) FEET ABOVE GRADE.
14. NEOPRENE COUPLINGS WITH STAINLESS STEEL BAND AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
15. THE CONTRACTOR SHALL EXCAVATE FOR NEW SEWER TO ELEVATIONS SHOWN ON PLANS. THE CONTRACTOR SHALL TAKE EVERY NECESSARY PRECAUTION TO PROTECT EXISTING SEWER DURING CONSTRUCTION OPERATIONS. ALL EXCAVATION, SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. THE CONTRACTOR SHALL EXPLORE AHEAD 200 FEET SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE IN CASE OF CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND PIPING.
17. ALL EXCESS MATERIAL FROM EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR. COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE.
19. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT OF SANITARY SEWER FOR CONNECTION TO EXISTING OR PROPOSED SEWER SYSTEM.
20. THE WATER SYSTEM IN THE PUBLIC RIGHT-OF-WAY WILL BECOME THE PROPERTY OF THE LOCAL UTILITIES BOARD UPON COMPLETION.
21. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHED AND WET AREAS. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
22. NATURAL GAS REQUIREMENTS SHALL BE PROVIDED TO THE UTILITIES DEPARTMENT ONE(1) MONTH PRIOR TO SERVICE REQUEST.
23. ALL PROPERTY LINE MARKERS (IRON PINS, CONCRETE MONUMENTS, ETC.) DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET PROPERTY MARKERS. THE COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

**GRADING AND DRAINAGE NOTES**

1. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
2. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
3. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
4. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
5. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL FILL MATERIAL TO BE UTILIZED ON THE PROJECT SHALL BE FREE OF ORGANIC OR OTHERWISE DELETERIOUS MATERIALS AND COMPACTED TO MINIMUM DRY DENSITIES CORRESPONDING TO 95% OF MAXIMUM DRY DENSITY AS OBTAINED BY STANDARD PROCTOR, ASTM D698 AND AT LEAST 100% DENSITY WITHIN 1 FOOT BELOW PAVEMENT SUBGRADE. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES IN COMPACTED FILL THICKNESS. A REPORT FROM A GEOTECHNICAL ENGINEER WILL BE REQUIRED BY THE LOCAL JURISDICTIONAL INSPECTOR.
7. MAXIMUM SLOPE OF EMBANKMENT SHALL BE 3.0 FEET HORIZONTAL TO 1.0 FOOT VERTICAL.
8. PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADES.
9. THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
10. EXCESS EARTH CUT MATERIAL, IF ANY, SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE APPROVED TO BE PLACED ON SITE BY THE OWNER.
11. ALL STORM DRAINAGE PIPE SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO VISIBLE BENDS AT JOINTS.
12. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL FRAME AND COVER FOR ACCESS.
13. THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
14. SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
15. CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM LIMITS OF ROADWAY CONSTRUCTION AS DIRECTED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED.

**SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS SHOWN TO CONTROL EROSION.
2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
3. DISTURBED AREAS SHALL BE VEGETATED AFTER CONSTRUCTION.
4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
  - A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
  - B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS.
7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.
10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE DETENTION POND, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED AT THE WEIR.
13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.
14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE.
20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIPHERABLE GRASSES-USE FESCUE.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.
23. LENGTH OF RIP RAP AREA SHALL BE 6(SIX) TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF RIP RAP AREA SHALL BE THREE(3) TIMES THE DIAMETER AT THE MOUTH OF THE PIPE AND TWO(2) TIMES THE DIAMETER AT THE DOWNSTREAM END.

**SITE NOTES**

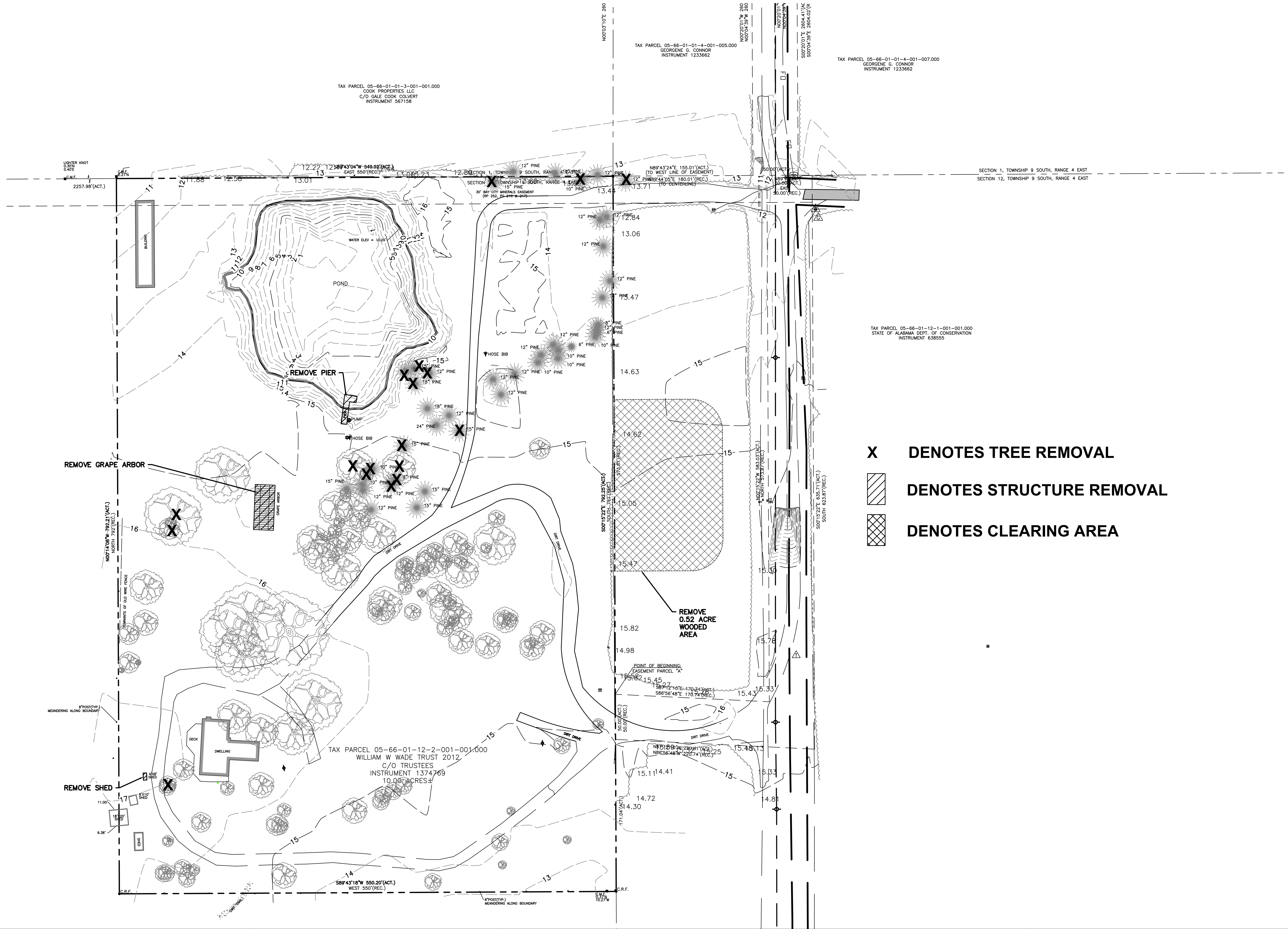
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM FINISH.
2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.
3. ALL DIMENSIONS ARE FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION
5. ALL SIDEWALK ENTRANCES AND EXITS SHALL HAVE TRUNCATED DOMES AS SPECIFIED IN SPECIAL DRAWING NO. SW-618, INDEX NO. 734 OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIAL AND STANDARD HIGHWAY DRAWING MANUAL.
6. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A LAY DOWN YARD.
7. CONTRACTOR SHALL NOT OVERLAY BRICK AND/OR CONCRETE DRIVEWAYS WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

ENGINEER: SAWGRASS CONSULTING, LLC.  
 (251) 544-7900 (OFFICE)  
 (251) 544-7918 (FAX)

NUMBER:	REVISION:	DATE:	 <p>ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT                  11143 Old Highway 31 Spanish Fort, AL 36527 Phone: (251) 544-7900</p>	<p>PROJECT NOTES</p> <p>WILDERNESS CENTER AND TRAIL SHOP</p> <p>CITY OF ORANGE BEACH</p>		SCALE: NTS
						DATE: MAY 2021
						DRAWN BY: KL
						CHECKED BY: JR
						SHEET: 2 OF 15



DWG: TRAIL SHOP / WILDLIFE CENTER (DWG) PRODUCTION (DWG) CENTER (DWG) WILDERNESS EXISTING.DWG - 5/25/2021 3:56:57 PM

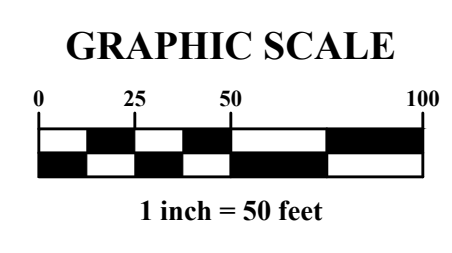


- X** DENOTES TREE REMOVAL
- DENOTES STRUCTURE REMOVAL
- DENOTES CLEARING AREA

**LEGEND**

- C.R.F. CAPPED REBAR FOUND
- C.T.F. CRIMPED TOP IRON FOUND
- I.P.F. IRON PIPE FOUND
- O.T.I.F. OPEN TOP IRON FOUND
- P.K.N.F. "PK" NAIL FOUND
- P.T.I.F. PIG TAIL IRON FOUND
- R.B.F. REBAR FOUND
- R.R.S.F. RAILROAD SPIKE FOUND
- R.B.F. REBAR IRON FOUND
- C.R.S. 1/2" CAPPED REBAR SET "CA 1007-LS"
- P.K.N.S. "PK" NAIL SET
- R.R.S.S. RAILROAD SPIKE SET
- C.M.F. CONCRETE MONUMENT FOUND
- C.M.S. CONCRETE MONUMENT SET "CA 1007-LS"
- POWER POLE
- ELECTRIC METER
- TRANSFORMER
- LIGHT POLE
- GUY WIRE
- AIR CONDITIONER
- SANITARY SEWER VALVE
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- GRINDER PUMP
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- CATV PEDESTAL
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- GAS VALVE
- ELECTRIC BOX
- FIBER OPTIC HAND HOLE
- POWER HAND HOLE

NUMBER:	REVISION:	DATE:



**ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT**

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900  
202 Government Street, Suite 225, Mobile, AL 36602

EXISTING CONDITIONS / DEMOLITION

---

TRAIL SHOP / WILDLIFE CENTER

---

CITY OF ORANGE BEACH



SCALE: 1" = 50'

DATE: MARCH 2021

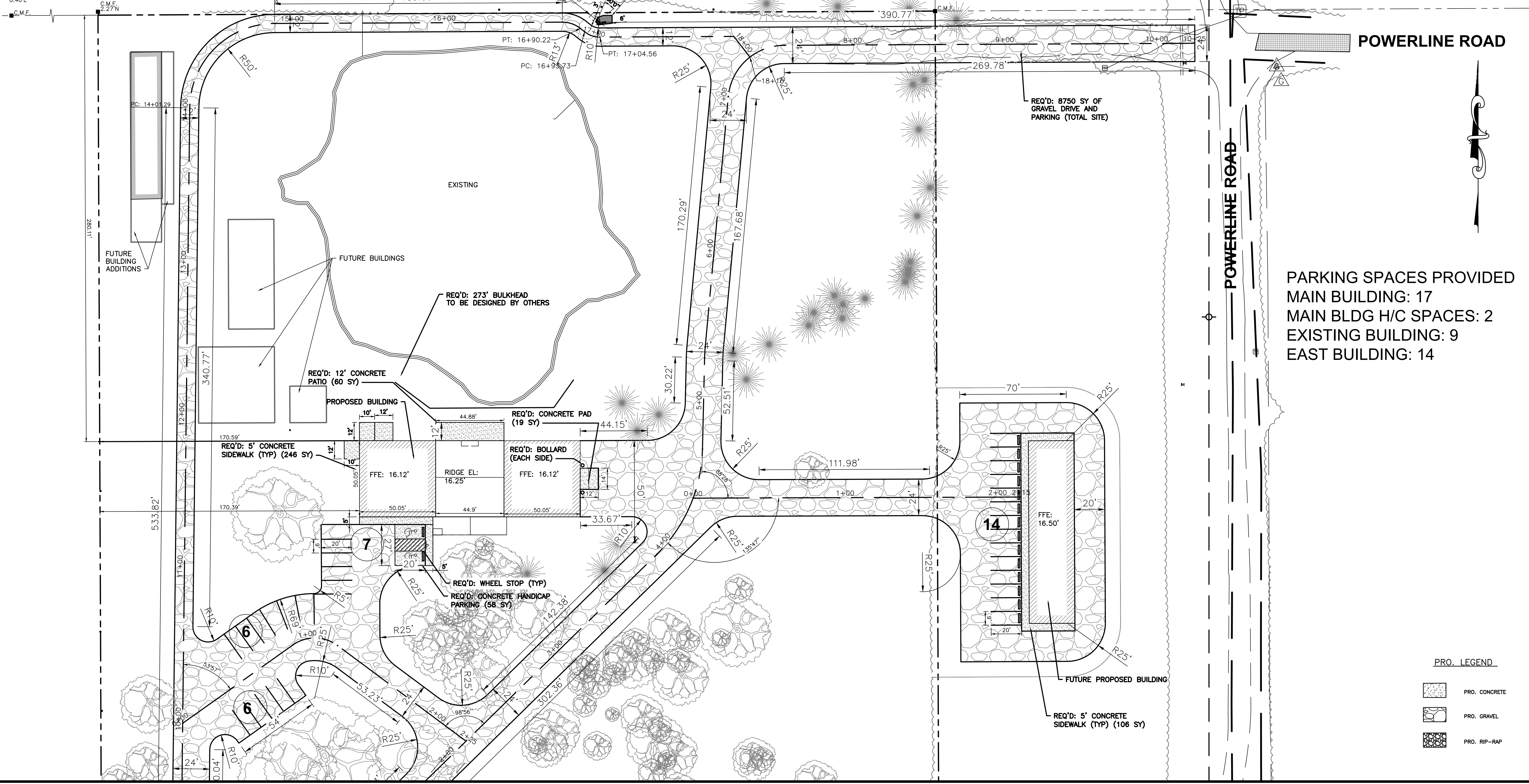
DRAWN BY: KL

CHECKED BY: JR

SHEET: 3 OF 15






LIGHTER KNOT  
0.30'N  
0.40'E



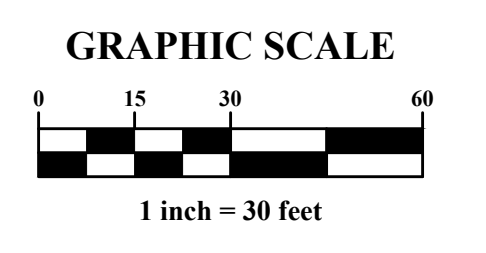
PARKING SPACES PROVIDED  
 MAIN BUILDING: 17  
 MAIN BLDG H/C SPACES: 2  
 EXISTING BUILDING: 9  
 EAST BUILDING: 14

PRO. LEGEND

-  PRO. CONCRETE
-  PRO. GRAVEL
-  PRO. RIP-RAP

MATCH LINE (SEE SHEET 5 - GEOMETRY PLAN 2)

NUMBER:	REVISION:	DATE:




**Sawgrass**  
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 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900  
 202 Government Street, Suite 225, Mobile, AL 36602

GEOMETRY PLAN  
 TRAIL SHOP / WILDLIFE CENTER  
 CITY OF ORANGE BEACH



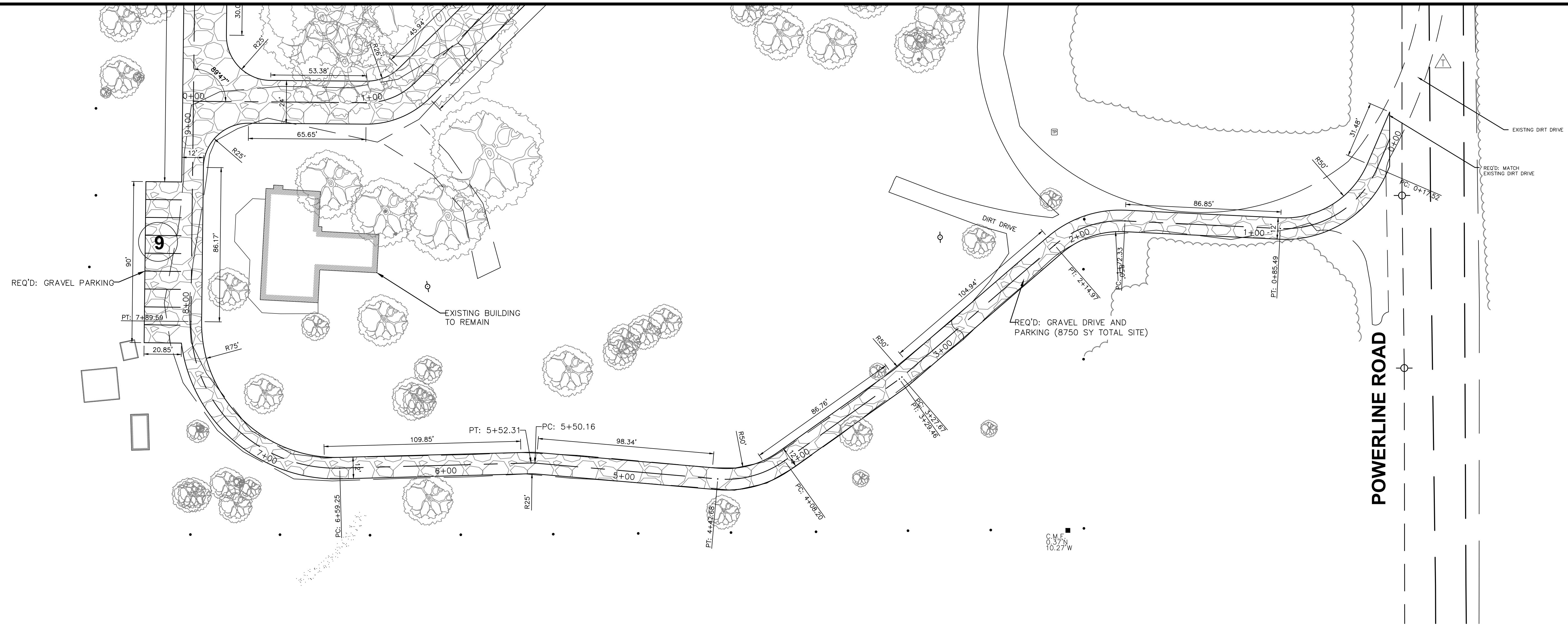
SCALE: 1" = 30'
DATE: APRIL 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 4 OF 15

D:\03 - INFO - S.V. - CLIENTS - 03 - 045 - WILDLIFE CENTER - CIVIL - PRODUCTION - DWG\03 - CIVIL - WILDLIFE CENTER UTILITY - GEO.DWG - 5/20/2021 3:42:02 PM








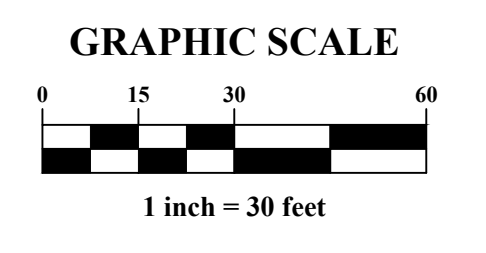
MATCH LINE (SEE SHEET 4 - GEOMETRY PLAN)



PRO. LEGEND

-  PRO. CONCRETE
-  PRO. GRAVEL
-  PRO. RIP-RAP

NUMBER:	REVISION:	DATE:




**ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT**

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900  
 202 Government Street, Suite 225, Mobile, AL 36602

GEOMETRY PLAN

TRAIL SHOP / WILDLIFE CENTER

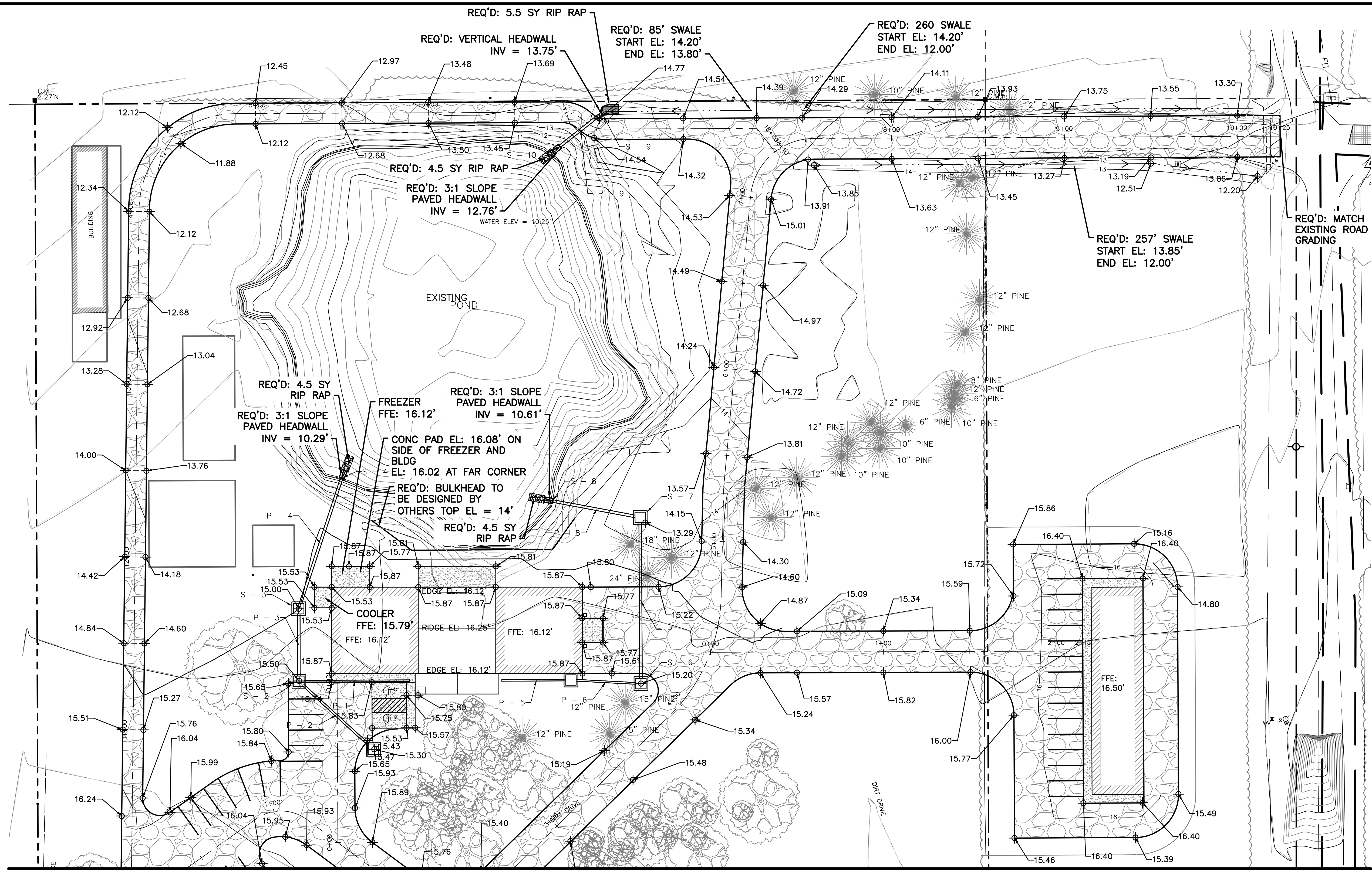
CITY OF ORANGE BEACH



SCALE: 1" = 30'
DATE: APRIL 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 5 OF 15

D:\03 - INFO - S.V. - CLIENTS - 03 - WILDERNESS CENTER (CWS) PRODUCTION - DWG\PRODUCTION - DWG\03 - CIVIL - PLAN - WILDERNESS UTILITY - GEO.DWG - 5/20/2021 3:42:32 PM

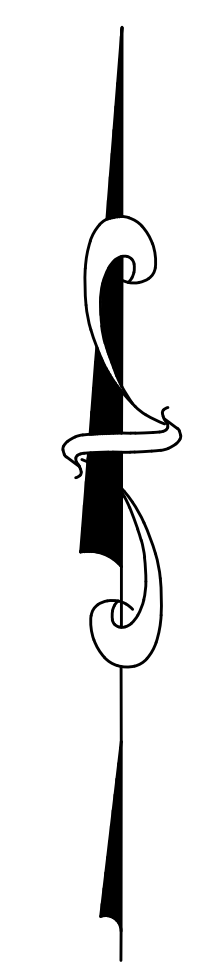




STRUCTURE SCHEDULE			
NAME	RIM EL	INV IN	INV OUT
S - 1	16.49		12.30 (P - 2)
S - 2	16.19	11.59 (P-1) 11.72 (P - 2)	11.72 (P - 3)
S - 3	15.56	11.09 (P - 3)	11.09 (P - 4)
S - 4	12.43	10.29 (P - 4)	
S - 5	15.85	11.76 (P - 5)	11.76 (P - 6)
S - 6	15.82	11.35 (P - 6)	11.35 (P - 7)
S - 7	15.34	10.87 (P - 7)	10.87 (P - 8)
S - 8	12.75	10.61 (P - 8)	
S - 9	15.88		13.75 (P - 9)
S - 10	14.90	12.76 (P - 9)	

Pipe Table						
NAME	SIZE	LENGTH	SLOPE	MATERIAL	INVERT	INVERT
P-1	12"	64.17'	0.50%	Corrugated HDPE Pipe	11.91	11.59
P - 2	15"	58.35'	1.00%	Corrugated HDPE Pipe	12.30	11.72
P - 3	18"	41.96'	1.50%	Corrugated HDPE Pipe	11.72	11.09
P - 4	18"	79.69'	1.00%	Corrugated HDPE Pipe	11.09	10.29
P - 5	12"	40.00'	1.48%	Corrugated HDPE Pipe	12.35	11.76
P - 6	12"	40.55'	1.00%	Corrugated HDPE Pipe	11.76	11.35
P - 7	18"	96.26'	0.50%	Corrugated HDPE Pipe	11.35	10.87
P - 8	18"	51.60'	0.50%	Corrugated HDPE Pipe	10.87	10.61
P - 9	18"	30.89'	3.20%	REINFORCED CONCRETE PIPE	13.75	12.76

MATCH LINE (SEE SHEET 7A)

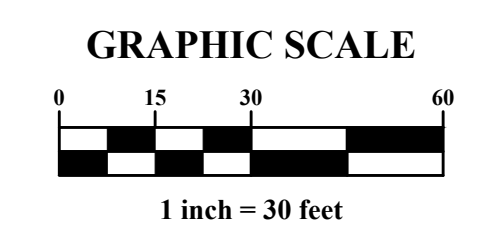


PRO. LEGEND

	PRO. CONCRETE
	PRO. GRAVEL
	PRO. RIP-RAP

DWG: INFO: S:\V-Clients\50-045 WILDERNESS CENTER\DWG\PRODUCTION: DWG\50-CIVIL\PLAN\WILDERNESS GRAD\DWG-50-207-2021-3-44-04.dwg

NUMBER:	REVISION:	DATE:



**Sawgrass**  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GRADING AND DRAINAGE  
TRAIL SHOP/WILDERNESS CENTER  
CITY OF ORANGE BEACH



SCALE: 1" = 30'

DATE: MAY 2021

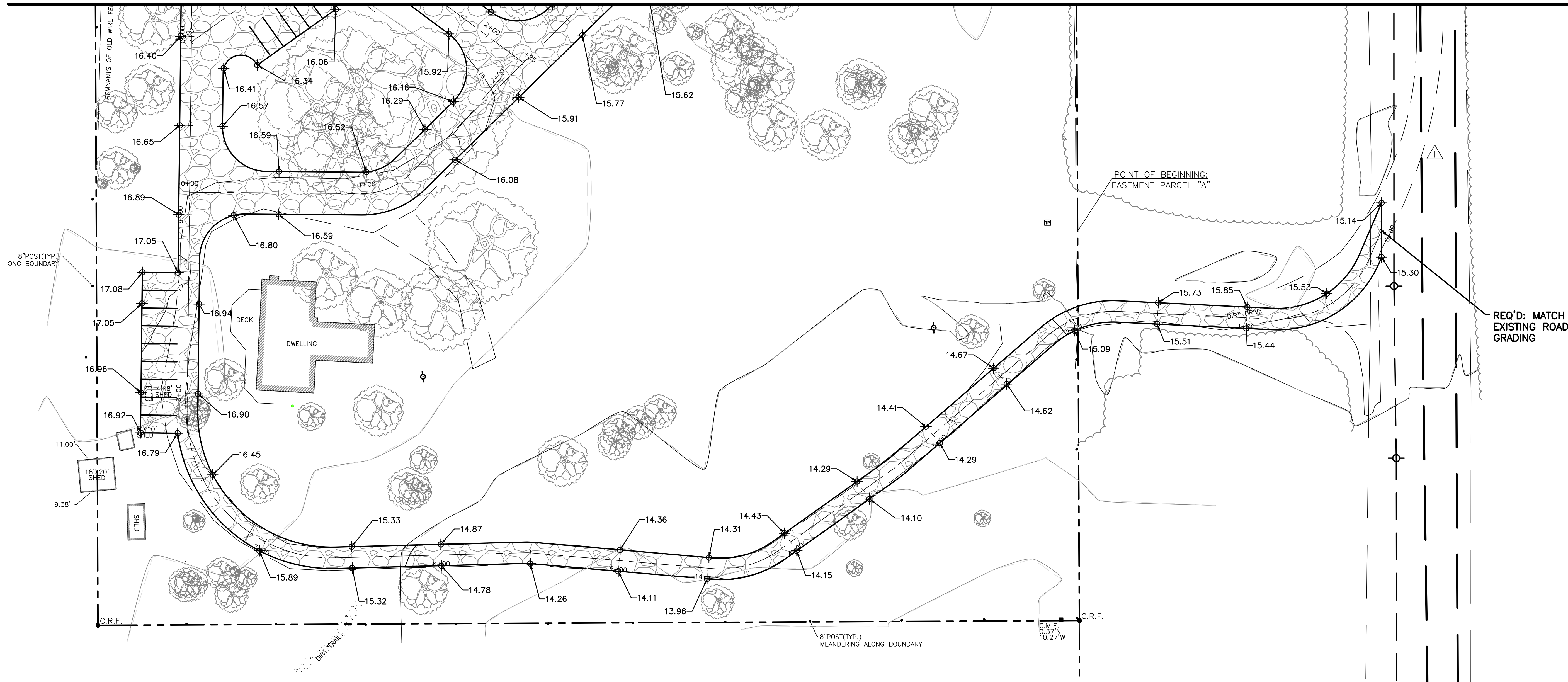
DRAWN BY: KL

CHECKED BY: JR




SHEET: 6 OF 15



MATCH LINE (SEE SHEET 6)

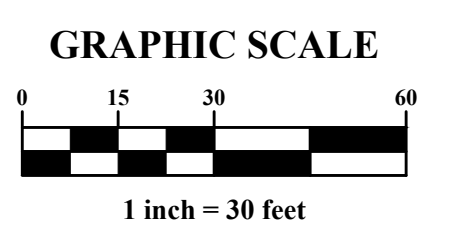


PRO. LEGEND

-  PRO. CONCRETE
-  PRO. GRAVEL
-  PRO. RIP-RAP

D:\WG\INFO\S.V\CLIENTS\20-045 WILDERNESS CENTER\DWG\PRODUCTION\DWG\CIVIL\PLAN\WILDERNESS GRADE DRN ECP.DWG --5/20/2021 3:44:39 PM

NUMBER:	REVISION:	DATE:



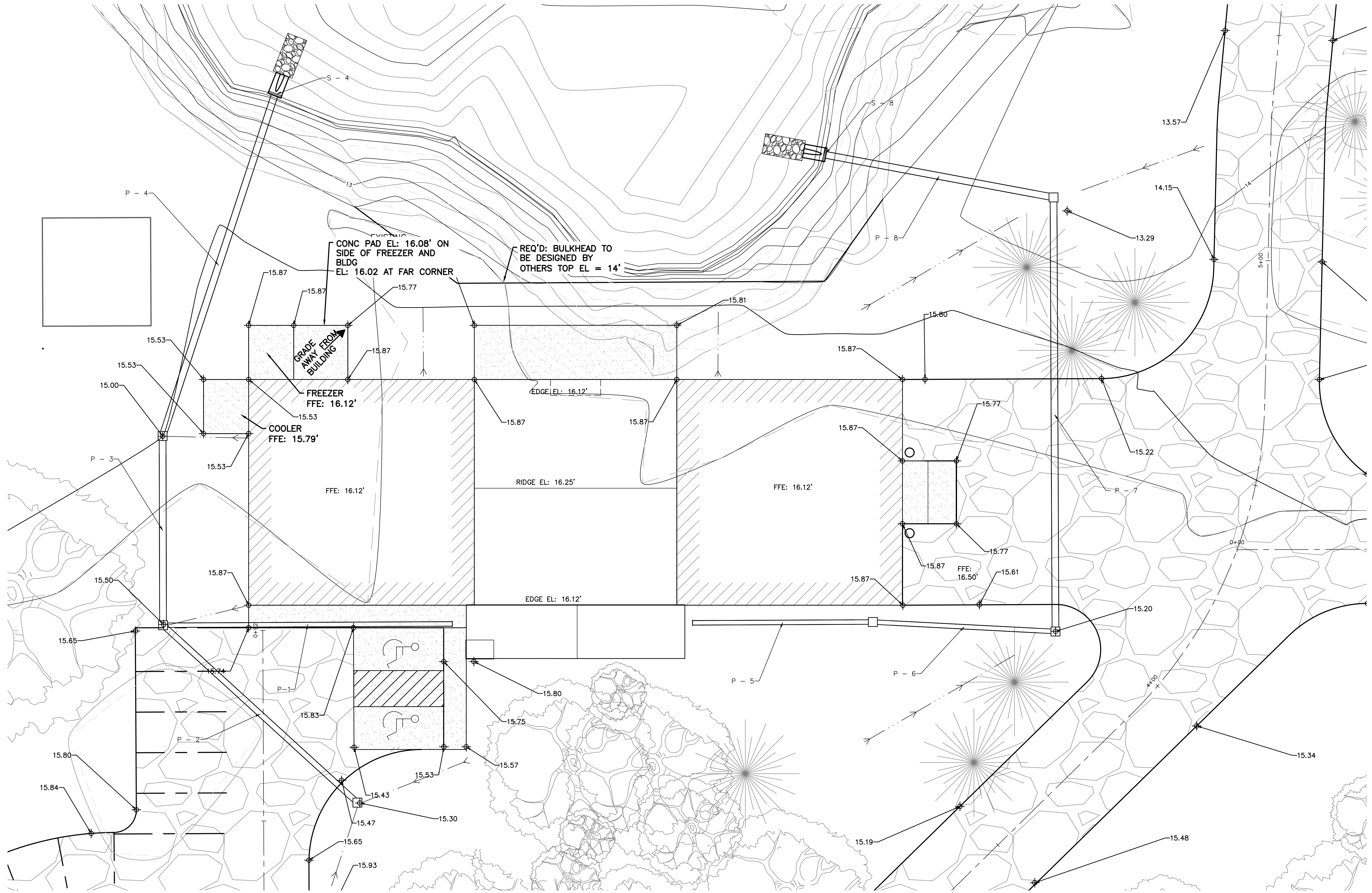
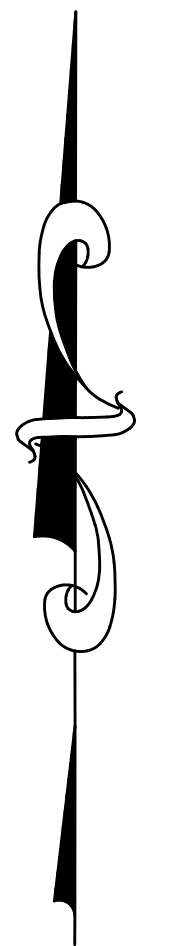

**ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT**  
 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GRADING AND DRAINAGE 2  
 TRAIL SHOP/WILDERNESS CENTER  
 CITY OF ORANGE BEACH



SCALE: 1" = 30'
DATE: MAY 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 7A OF 15





CONC PAD EL: 16.08' ON SIDE OF FREEZER AND BLDG EL: 16.02 AT FAR CORNER

REQ'D: BULKHEAD TO BE DESIGNED BY OTHERS TOP EL = 14'

GRADE AWAY FROM BUILDING

FREEZER FFE: 16.12'

COOLER FFE: 15.79'

FFE: 16.12'



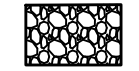
RIDGE EL: 16.25'

FFE: 16.12'

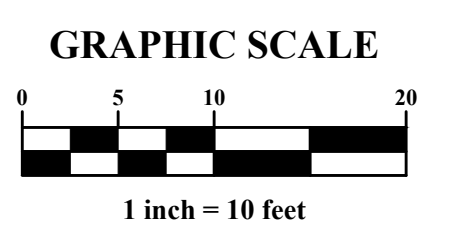
EDGE EL: 16.12'

FFE: 16.50'

PRO. LEGEND

-  PRO. CONCRETE
-  PRO. GRAVEL
-  PRO. RIP-RAP

NUMBER:	REVISION:	DATE:




ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GRADING AND DRAINAGE

TRAIL SHOP/WILDERNESS CENTER

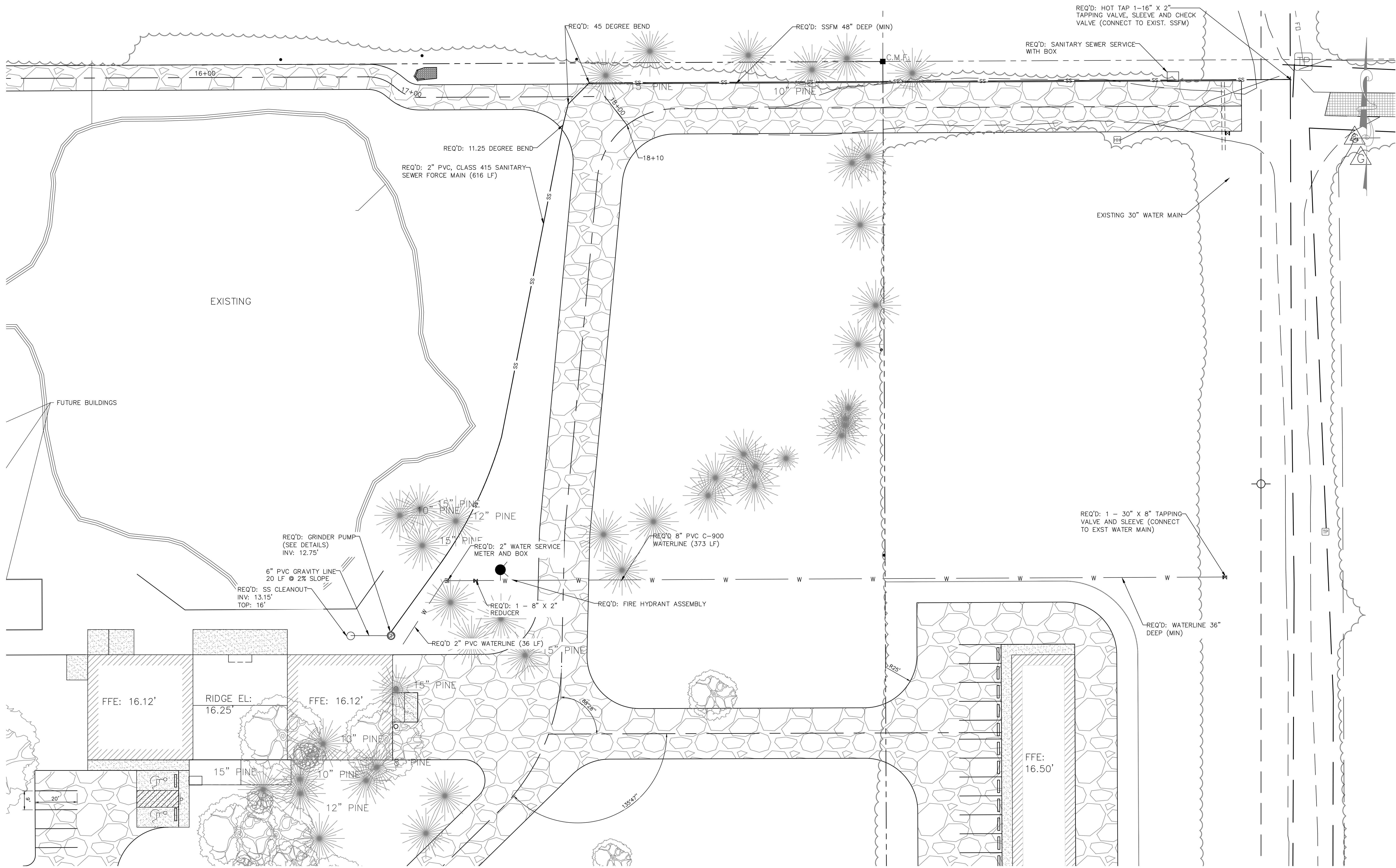
CITY OF ORANGE BEACH



SCALE: 1" = 30'
DATE: MAY 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 7B OF 15

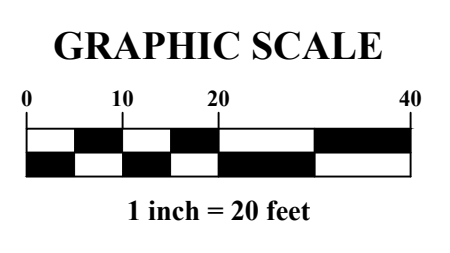
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DWG: INFO: S:\PROJECTS\20-045 WILDERNESS CENTER (WWS) PRODUCTION (WWS) CIVIL PLAN WILDERNESS UTILITY (05/20/2021) 3:45:53 PM

NUMBER:	REVISION:	DATE:



**ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT**

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900  
 202 Government Street, Suite 225, Mobile, AL 36602

**UTILITY PLAN**

**TRAIL SHOP / WILDLIFE CENTER**

**CITY OF ORANGE BEACH**

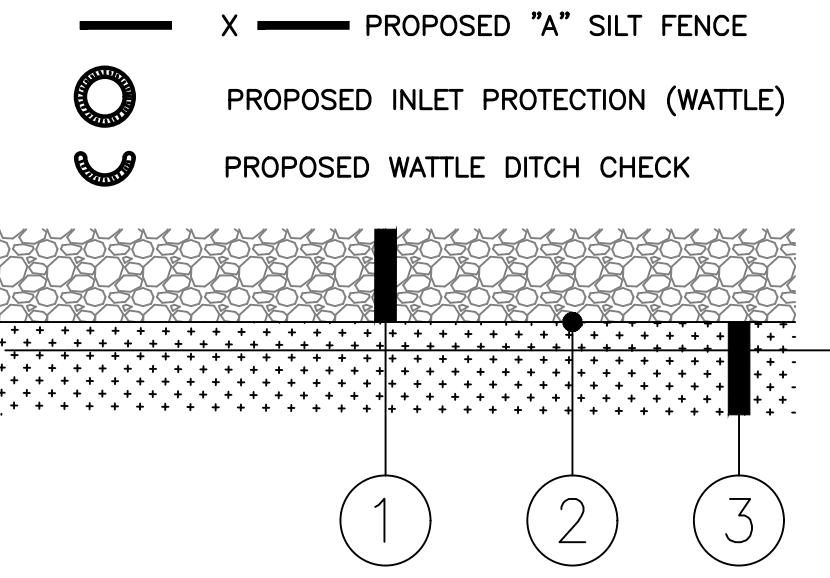


SCALE: 1" = 20'
DATE: APRIL 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 8 OF 15



TAX PARCEL 05-66-01-01-3-001-001.000  
 COOK PROPERTIES LLC  
 C/O GALE COOK COLVERT  
 INSTRUMENT 567158

**EROSION CONTROL LEGEND**



**TEMPORARY CONSTRUCTION ENTRANCE SECTION**  
 N.T.S.

1. 4" THICK, NO. 1 STONE
2. TERRA TEX NON-WOVEN FILTER CLOTH
3. EXISTING GRADE OR BORROW (A-2-4 MATERIAL OR BETTER)

**CONSTRUCTION PHASING SCHEDULE**

**PHASE 1**

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE.
2. CONTRACTOR TO INSTALL ALL PERIMETER SILT FENCE.
3. CONTRACTOR TO INSTALL LAYDOWN YARD, PORTABLES, CONTAINMENT BERM AND ALL APPLICABLE CONCRETE WASHOUT AREAS.
4. CONTRACTOR TO INSTALL RIP-RAP FOR OUTFALL DISSIPATION AND GRASS SURROUNDING SLOPES.

**PHASE 2**

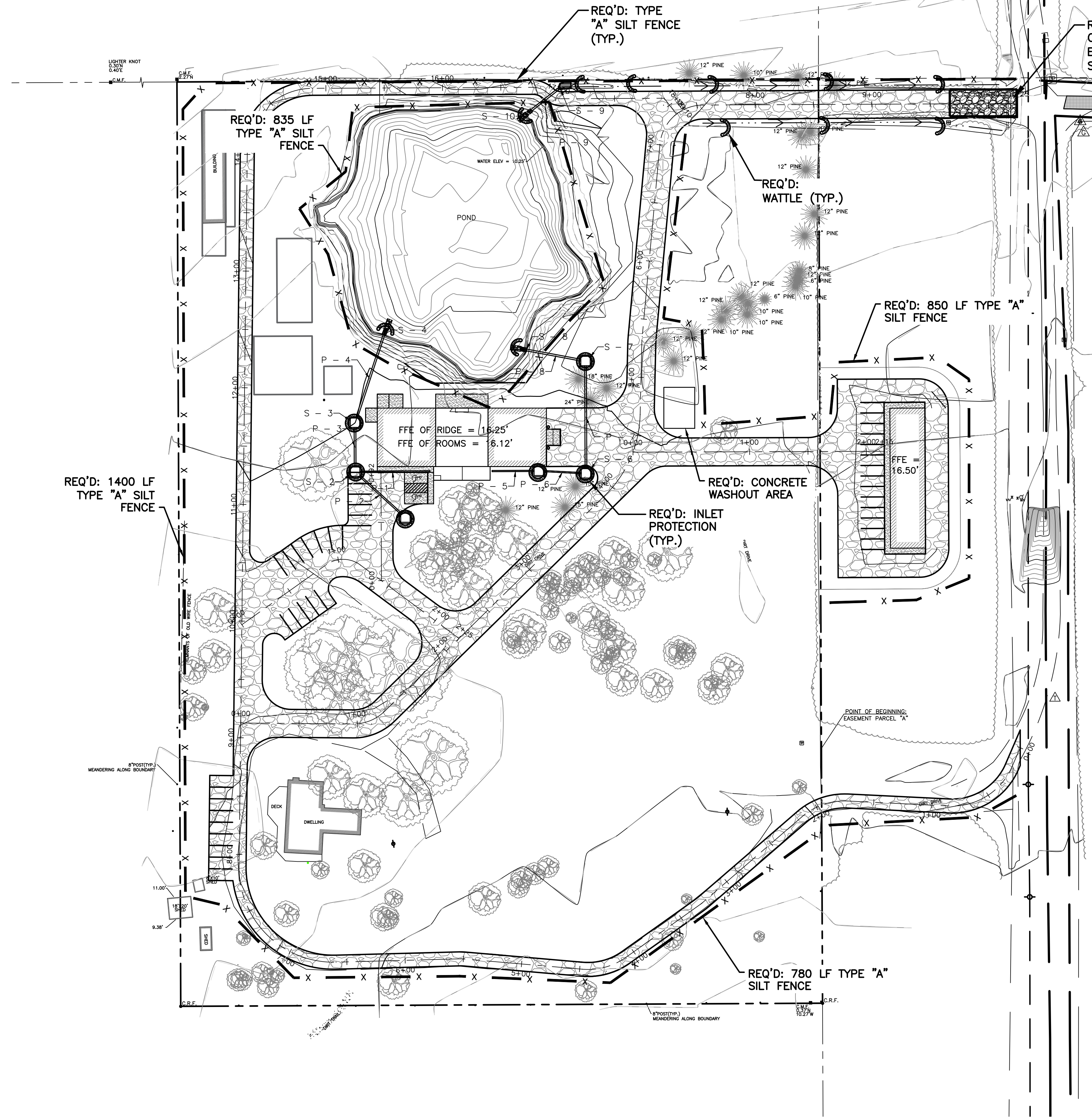
1. CONTRACTOR TO STRIP TOPSOIL IN PROPOSED BUILDING PAD AND ROADWAYS.
2. CONTRACTOR TO GRADE PROPOSED BUILDING PAD TO PLAN ELEVATION
3. CONTRACTOR TO EXCAVATE PROPOSED ROADWAY AREAS TO PLAN ELEVATION TO INSTALL PROPOSED BUILD-UP
4. CONTRACTOR WILL INSTALL PROPOSED DRAINAGE AND UTILITY INFRASTRUCTURE TO PLAN GRADES AND INSTALL PROPOSED ROADWAY BUILD UP

**PHASE 3**

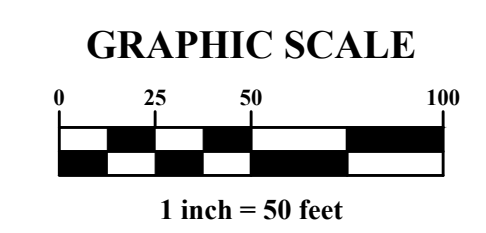
1. CONTRACTOR WILL INSTALL ALL REQUIRED GRASSING FOR SITE. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED. ALL GRASS MUST BE ESTABLISHED PRIOR TO REQUESTING FINAL COMPLETION AND ACCEPTANCE
2. CONTRACTOR WILL REMOVE ALL SILT FENCE, INLET PROTECTION AND CONCRETE WASHOUT AREA.

**SOIL EROSION & SEDIMENT CONTROL NOTES:**

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT FOR CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1 AND 2, LATEST EDITION.
2. THE MEASURES SET FORTH IN THE EROSION CONTROL PLAN ARE INTENDED AS THE MINIMUM STANDARDS. ANY EROSION CONTROL MEASURE BEYOND THAT SPECIFIED IN THE PLAN, THAT IS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW, SHALL BE IMPLEMENTED.
3. IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY LOCAL AND STATE COMPLIANCE PERSONNEL PRIOR TO PLACEMENT
4. THE CONTRACTOR AND/OR QCI SHALL INSPECT NEWLY INSTALLED BMPs WITHIN 24 HOURS OF INITIAL INSTALLATION AND AT LEAST ONCE EVERY SEVEN (7) DAYS THEREAFTER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
5. THE CONTRACTOR AND/OR QCI SHALL INSPECT INSTALLED BMPs WITHIN 24 HOURS AFTER PRECIPITATION EVENTS OF 0.50 INCHES OR GREATER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
6. TEMPORARY STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY. FINAL STABILIZATION MUST BE INITIATED IMMEDIATELY ON ANY PORTION OF THE SITE THAT HAS TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 13 CALENDAR DAYS.
7. ALL AREAS NOT IDENTIFIED TO HAVE SOLID SODDING, SHALL BE VEGETATED WITH PERMANENT SEEDING (SEASONAL MIX) IN ACCORDANCE WITH SECTION 860, TABLE FOR ZONE 3 IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAY CONSTRUCTION (CURRENT EDITION).
8. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
9. DUST AND AIR BORNE POLLUTANTS MUST BE KEPT TO A MINIMUM. LAND DISTURBANCE MUST BE KEPT TO A MINIMUM. CONTRACTOR AND/OR QCI WILL MONITOR POTENTIAL IMPACT AND IMPLEMENT PREVENTATIVE MEASURE(S), I.E. WATER TRUCKS, ETC. TO REDUCE DUST AND/OR AIR BORNE POLLUTANTS.
10. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
  - A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
  - B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER
11. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
12. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
13. ALL SLOPES SHALL BE STABILIZED AND VEGETATED AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKET (ECB) WHERE GRASSING SLOPES ARE INTERMITTENT.
14. ALL CONSTRUCTION WASTE AND DEBRIS, SILT FENCES, HAY BALES, AND INLET PROTECTION AND OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE UPON CONSTRUCTION COMPLETION.
15. ALL BMPs ARE TO BE CLEANED OF SEDIMENT AND DEBRIS WHEN THEY ARE 1/3 FULL.



NUMBER:	REVISION:	DATE:



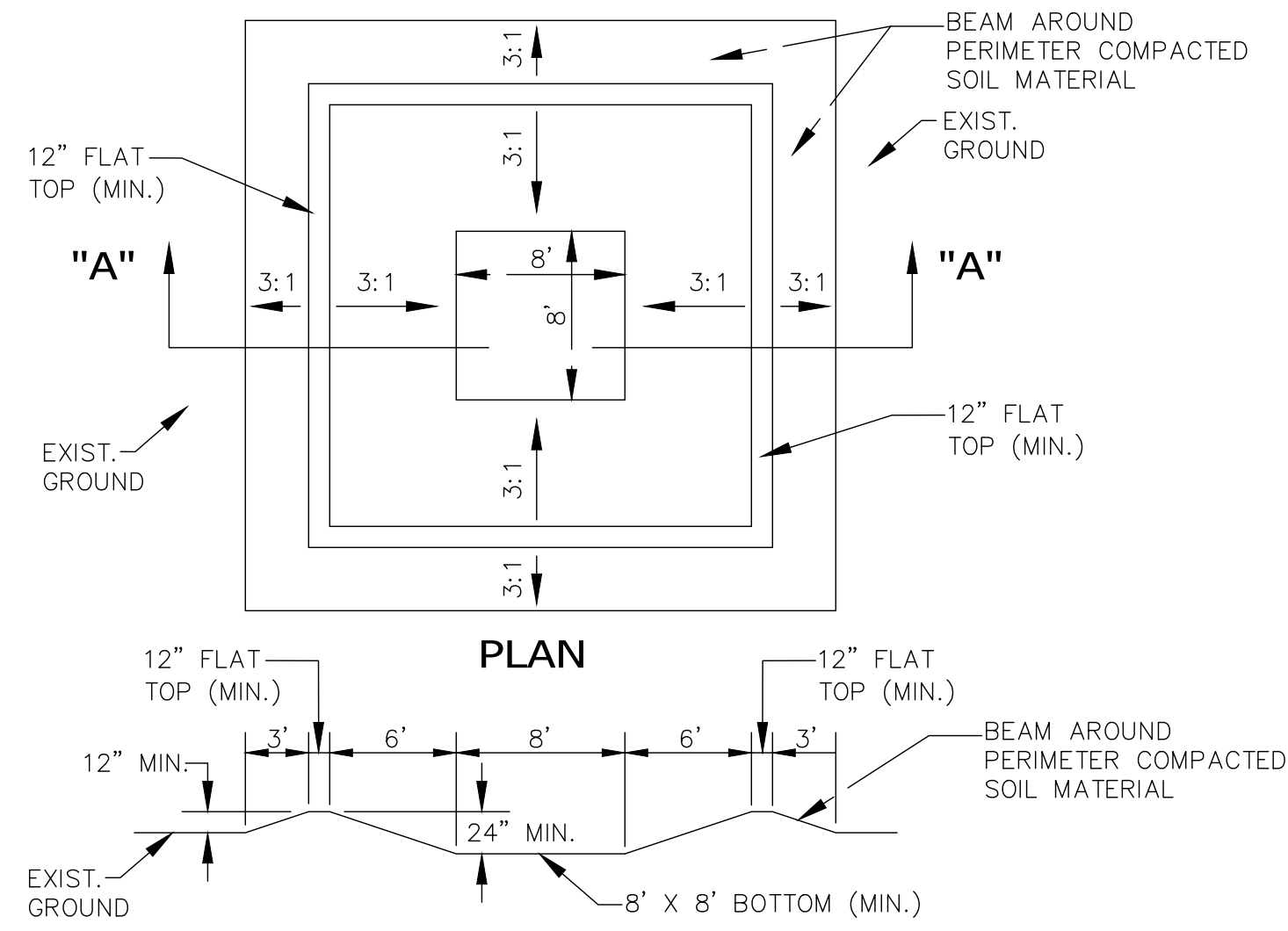
**EROSION CONTROL PLAN**  
**TRAIL SHOP/WILDERNESS CENTER**  
**CITY OF ORANGE BEACH**



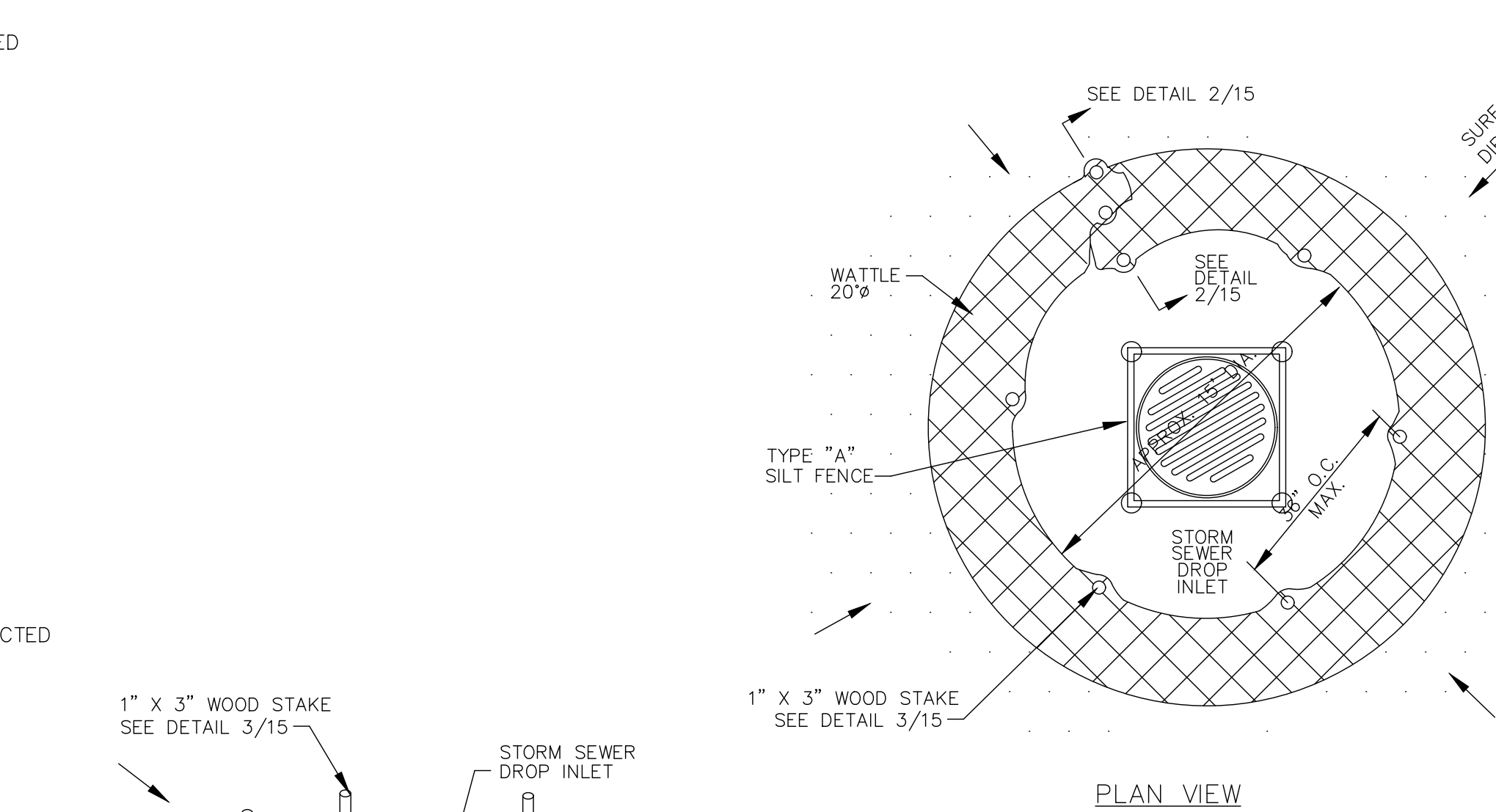
SCALE: 1" = 50'
DATE: MAY 2021
DRAWN BY: KL
CHECKED BY: JR
SHEET: 9 OF 15

DWG: INFO: S:\V-Clients\50418-WILDERNESS CENTER\DWG\PRODUCTION\DWG\CONVIL PLAN\WILDERNESS CENTER ECP.DWG --5/20/2021 3:46:28 PM



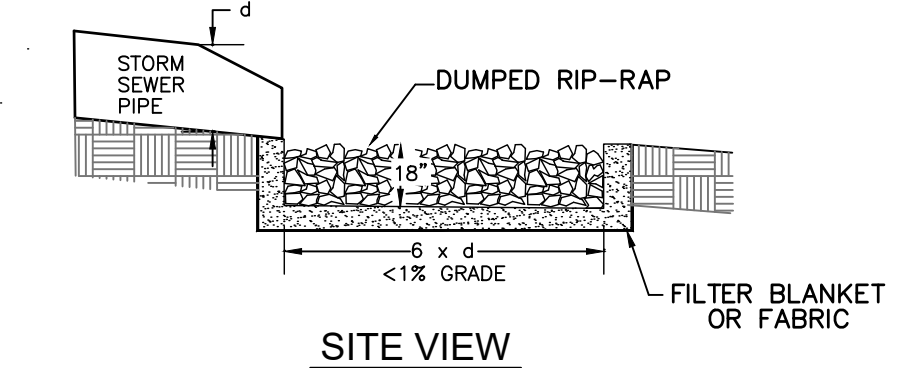
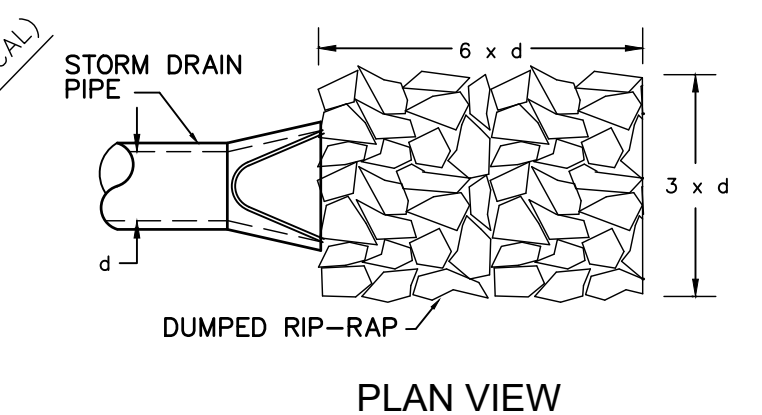


**SECTION "A-A"**  
CONCRETE WASHOUT AREA DETAILS  
NOT TO SCALE

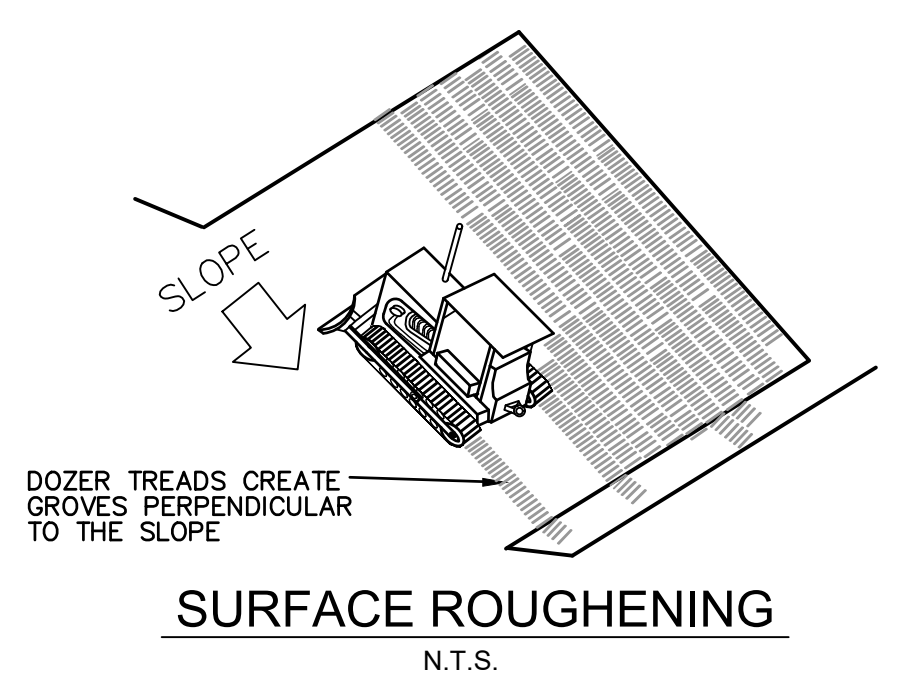


**DROP INLET PROTECTION**

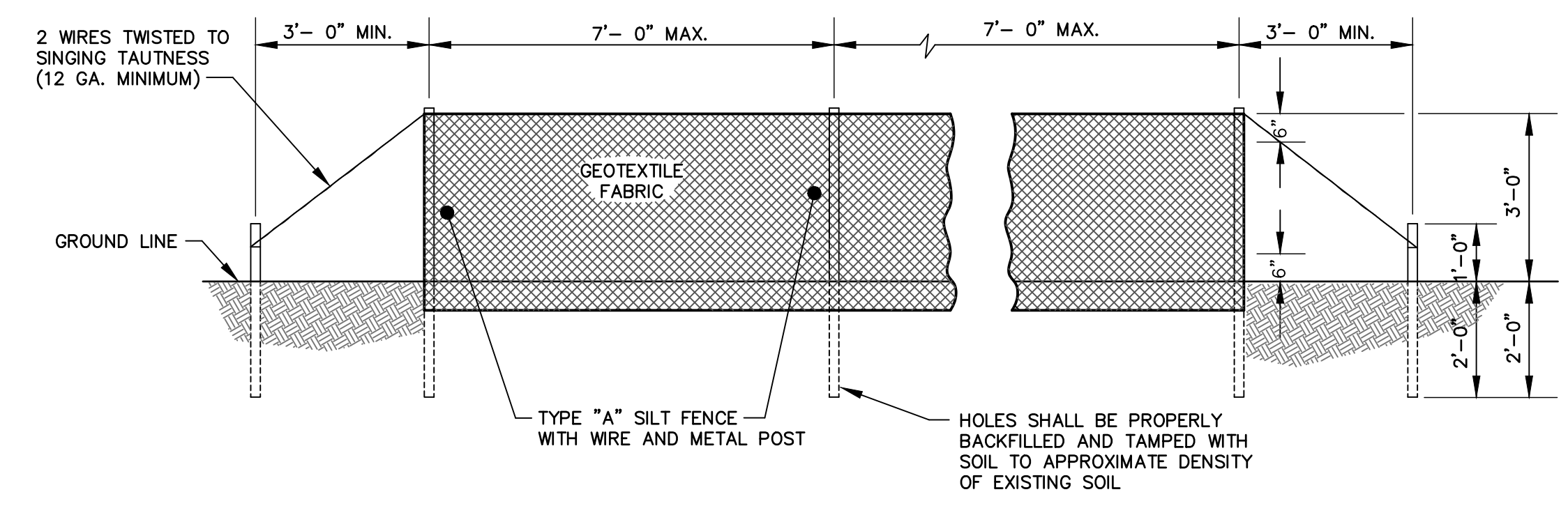
NOTE:  
COST OF WOOD STAKES OR EQUAL SHALL BE INCLUDED IN COST OF WATTLES



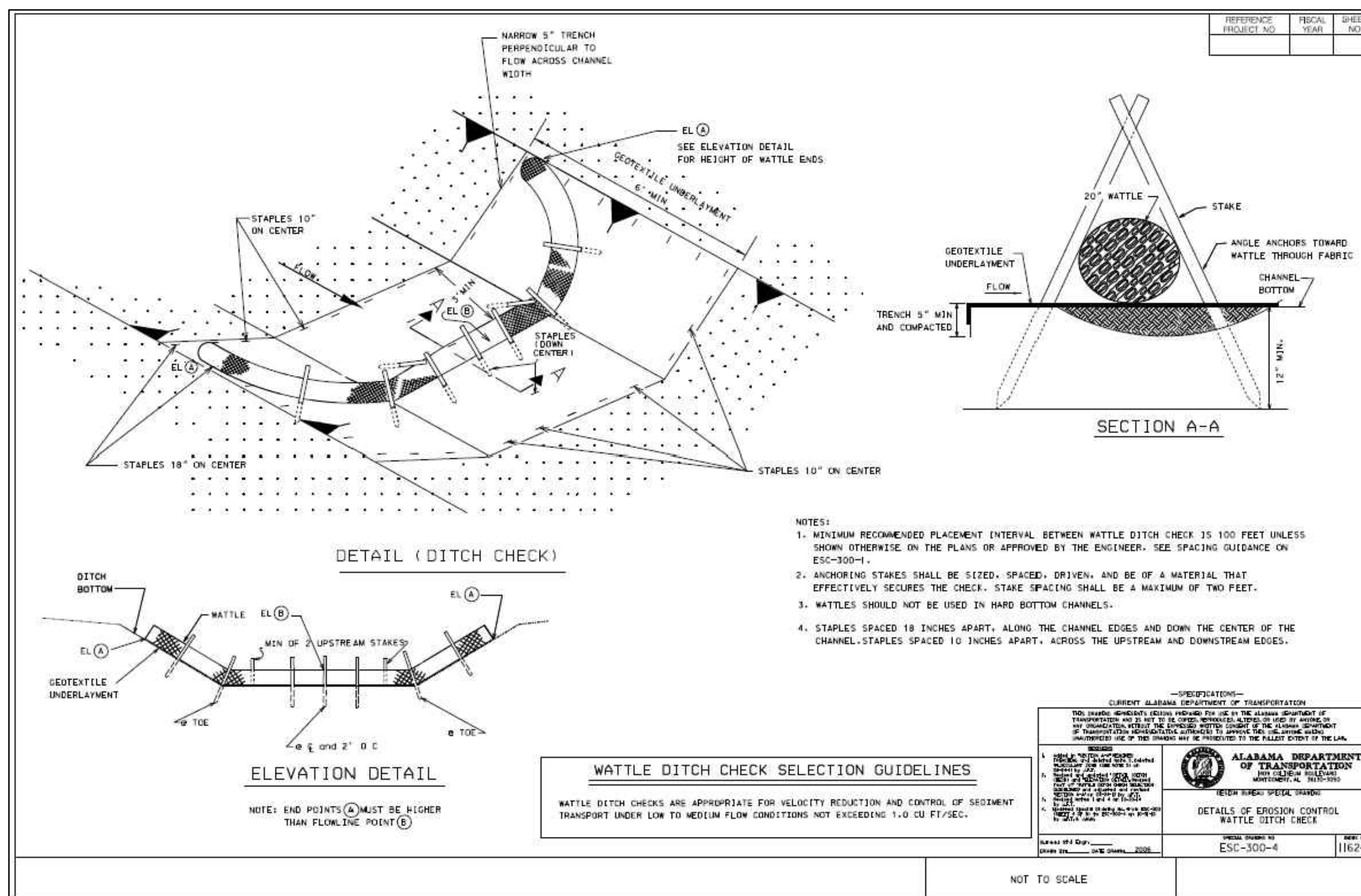
**RIP RAP OUTLET PROTECTION**  
N.T.S.



**SURFACE ROUGHENING**  
N.T.S.



**TYPICAL TYPE "A" SILT FENCE INSTALLATION**  
N.T.S.

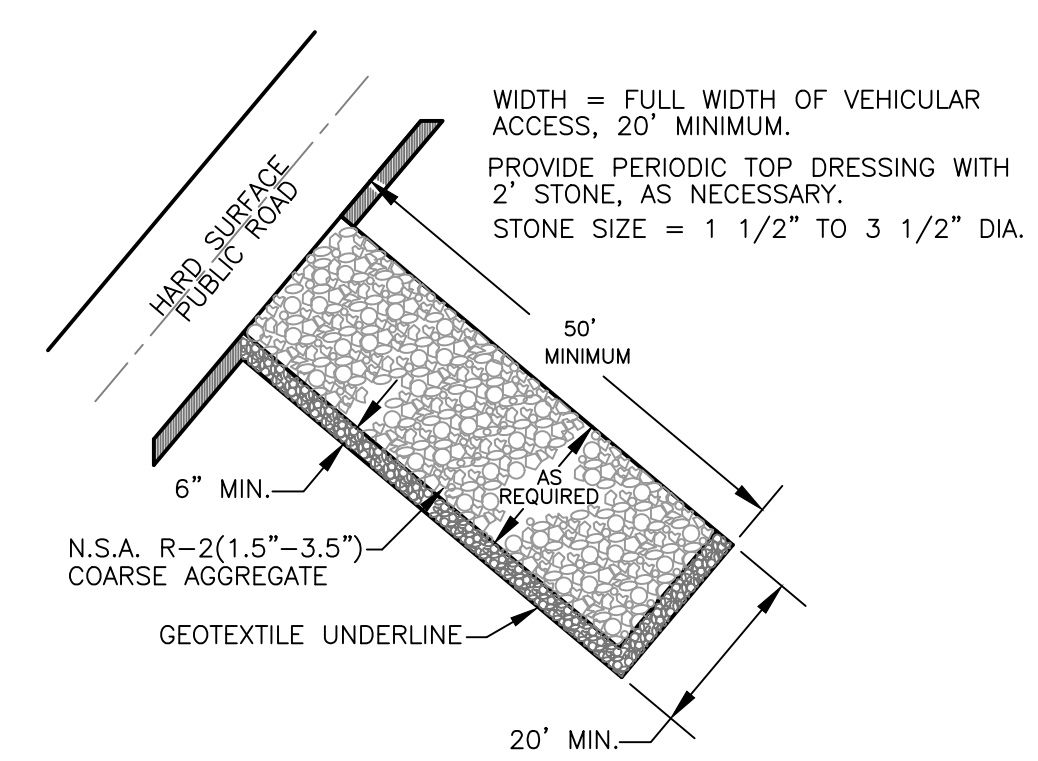


- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ESC-300-4.
  2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
  3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
  4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

**WATTLE DITCH CHECK SELECTION GUIDELINES**

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

**STAKE DETAILS**  
N.T.S.



**STONE PAD CONSTRUCTION ENTRANCE & EXIT**  
N.T.S.

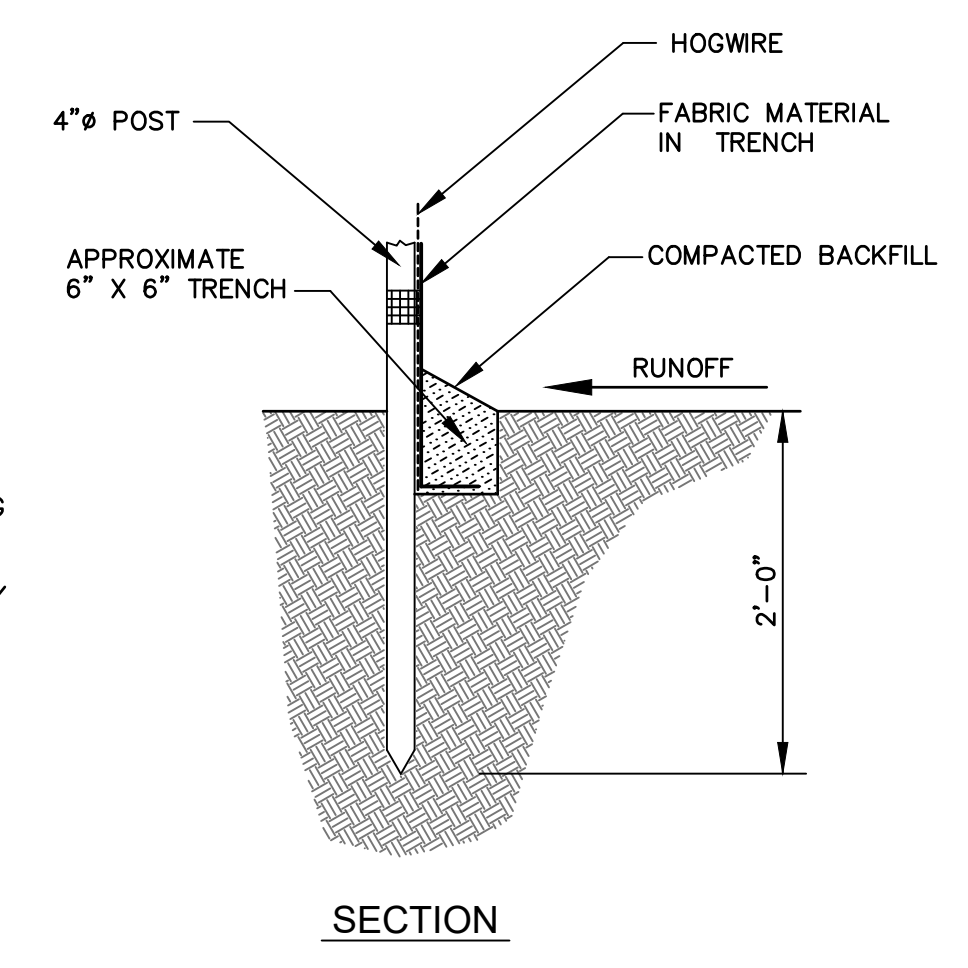
NOTE:  
CONTRACTOR SHALL MINIMIZE DIRT TRACKING ON THE EXISTING SERVICE ROAD AT ALL TIMES. IF TRACKING DOES OCCUR, THE CONTRACTOR SHALL CLEAN ALL MATERIAL OFF OF ROAD BEFORE LEAVING THE SITE EACH DAY.

**GENERAL NOTES**

1. SILT FENCE SHALL BE TYPE "A" ONLY.
2. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE PROPERTY BOUNDARY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
4. WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
6. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
7. IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.
8. WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).

**SPECIFICATIONS**

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION



**SECTION**

NOTE:  
ALL DETAILS MAY NOT BE APPLICABLE TO PROPOSED PROJECT.

NUMBER:	REVISION:	DATE:

**Sawgrass**  
CONSULTING, LLC  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

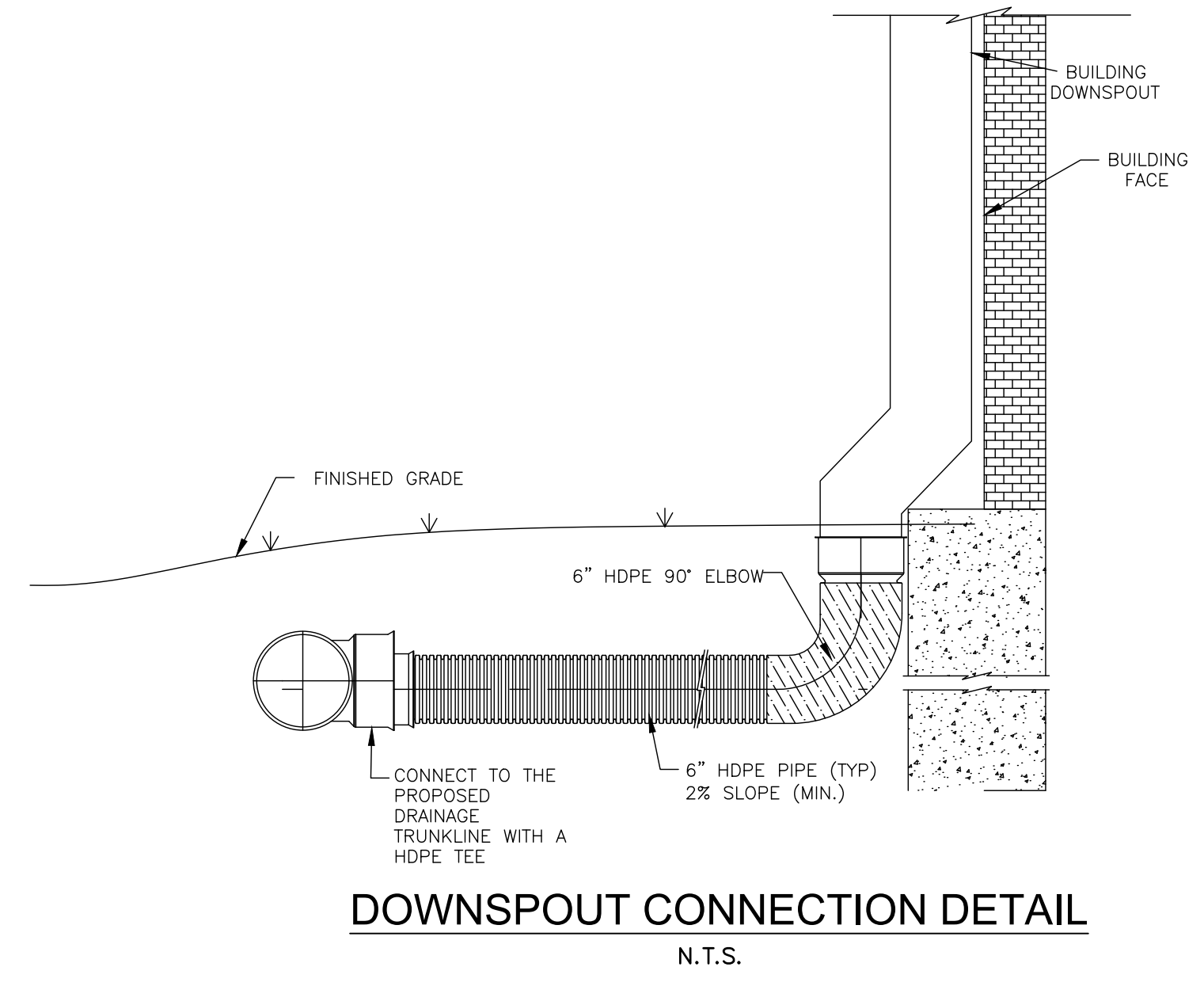
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527  
Phone: (251) 544-7900  
Phone: (251) 970-7900

EROSION CONTROL DETAILS  
TRAIL SHOP / WILDLIFE CENTER  
CITY OF ORANGE BEACH

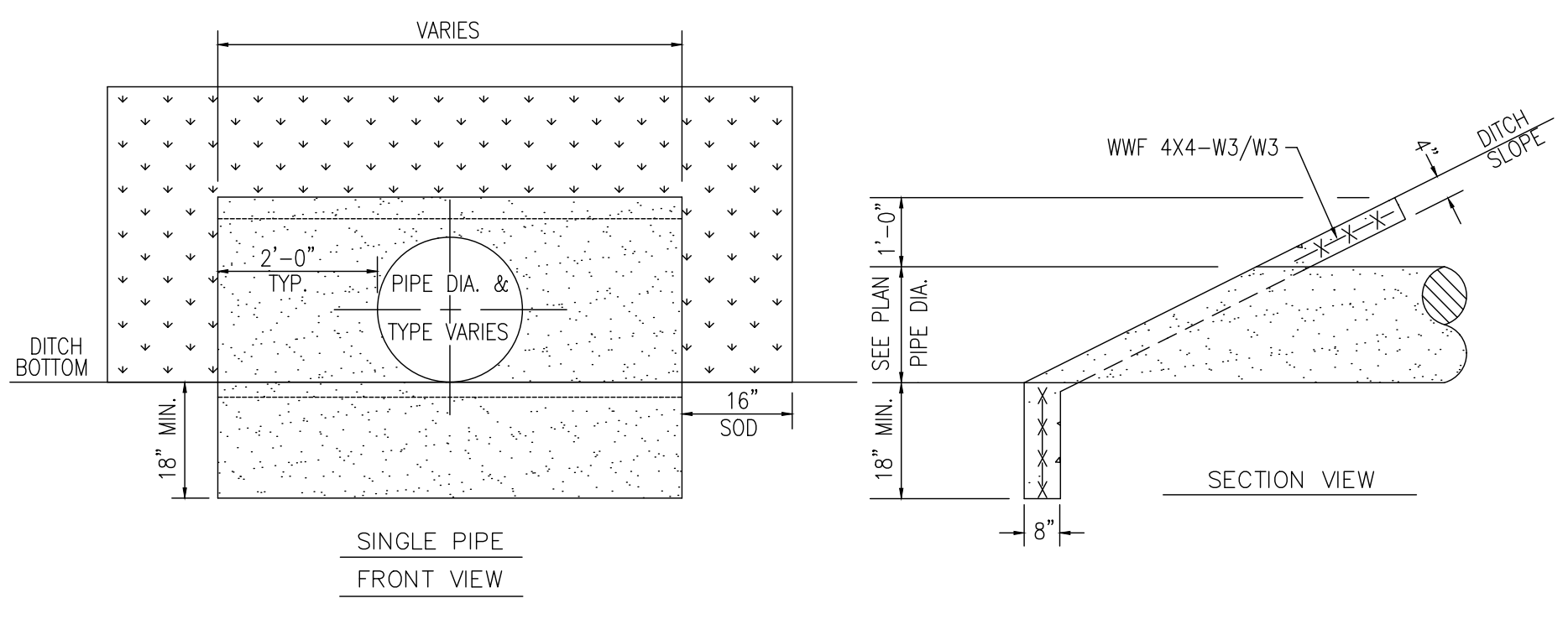


SCALE:	NTS
DATE:	MAY 2020
DRAWN BY:	KL
CHECKED BY:	JR
SHEET:	10 OF 15

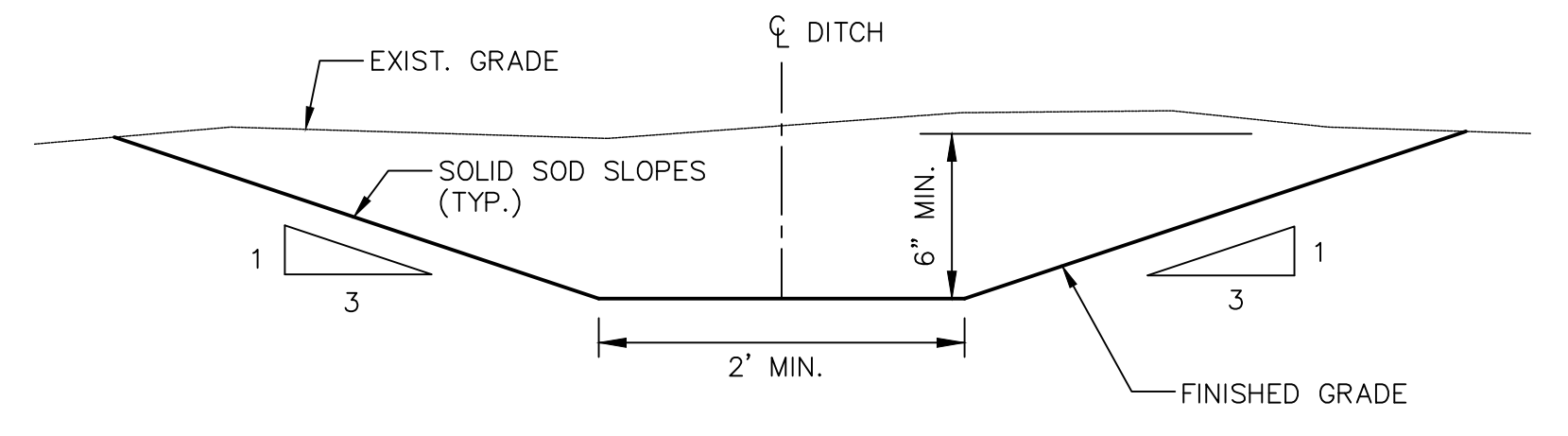




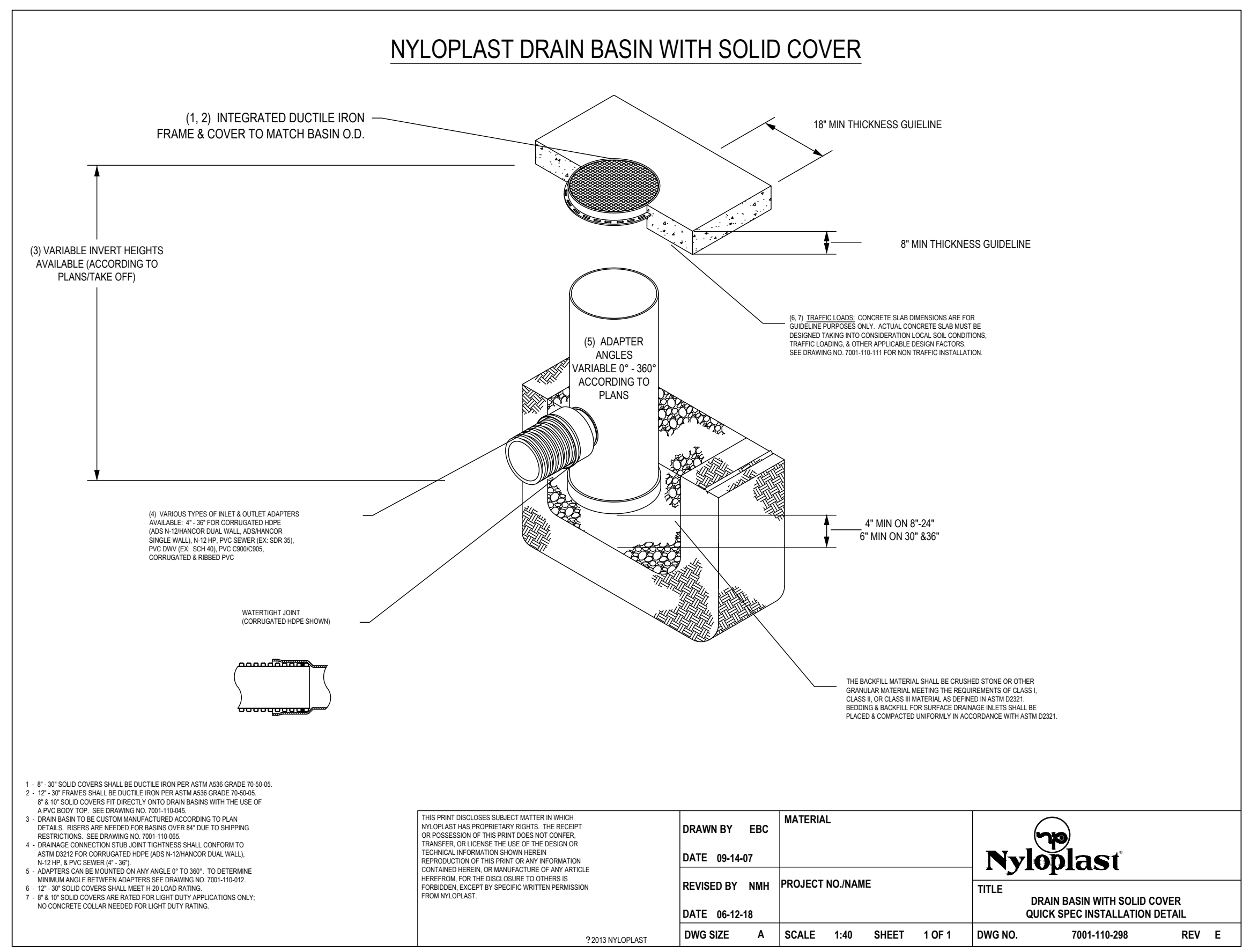
**DOWNSPOUT CONNECTION DETAIL**  
N.T.S.



**CONCRETE SLOPED HEADWALL DETAIL**  
N.T.S.

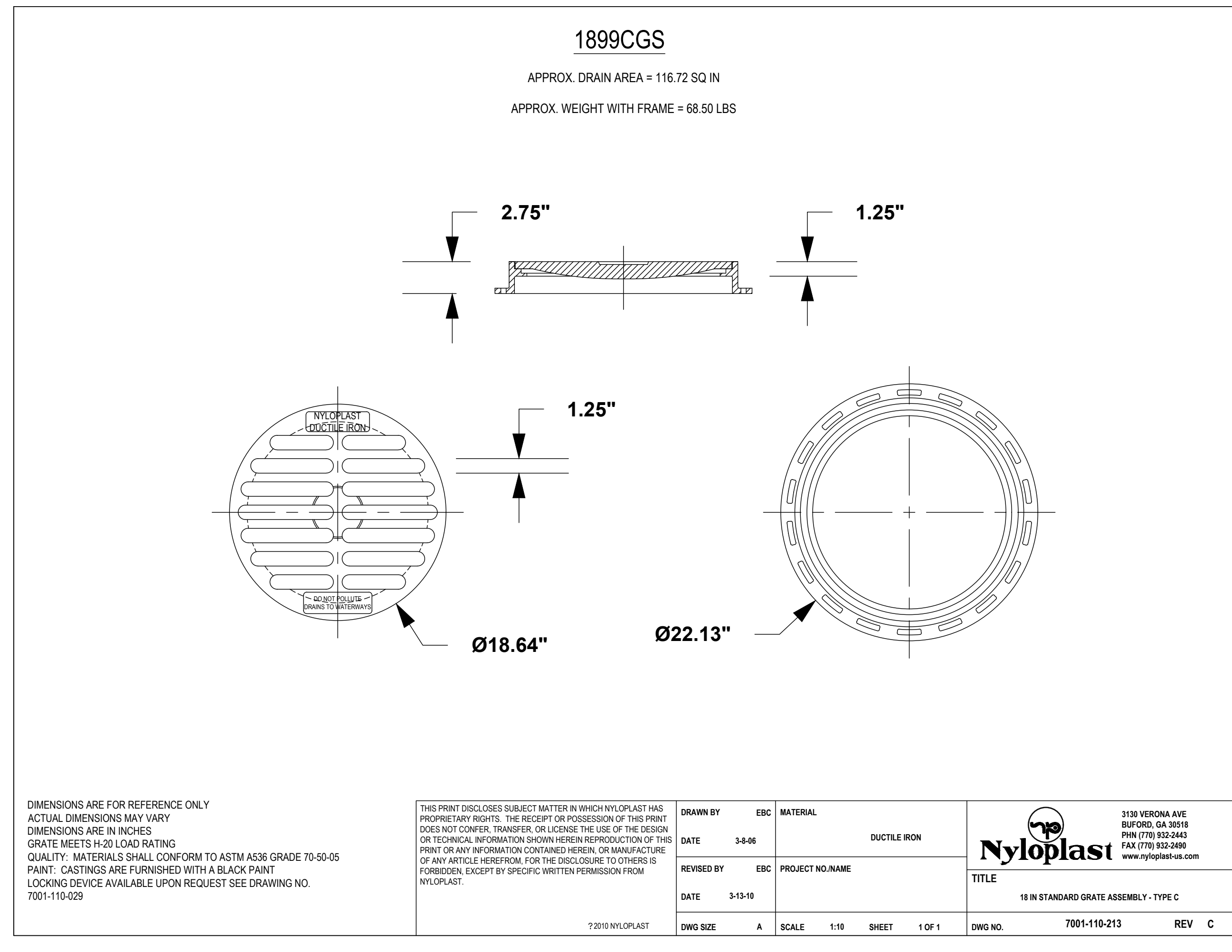


**TYPICAL SWALE DETAIL**  
N.T.S.



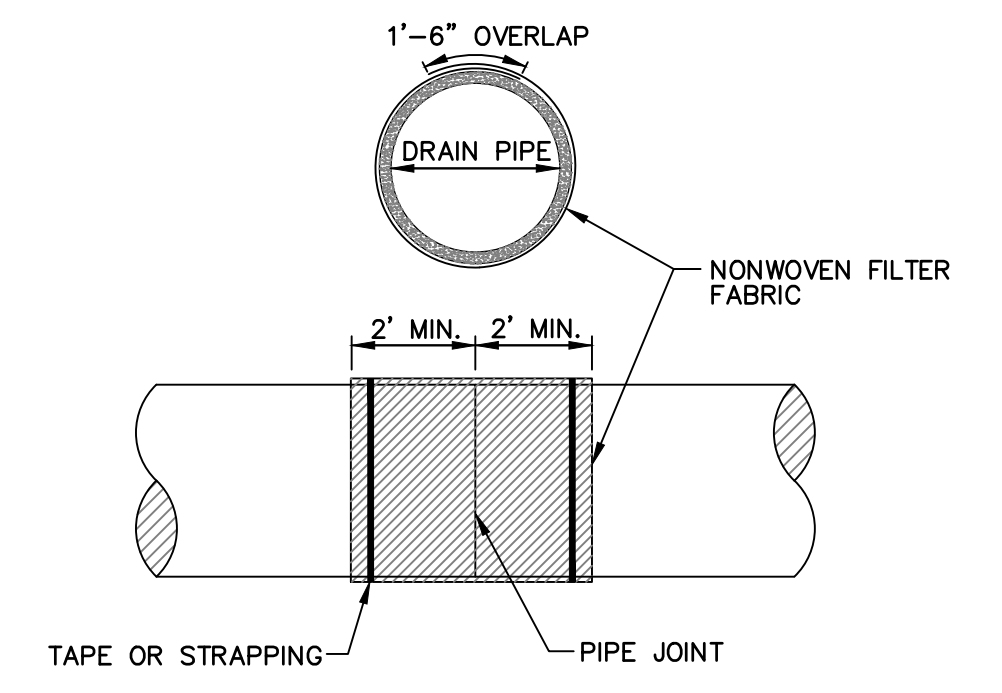
**NYLOPLAST DRAIN BASIN WITH SOLID COVER**

<p>1. 18" x 30" SO D COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-0-05</p> <p>2. 12" x 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE TO 0-05</p> <p>3. IF A SOLID COVER IS USED, THE COVER SHALL BE 1/2" THICK AND SHALL BE MADE OF CONCRETE OR POLYPROPYLENE</p> <p>4. THE COVER SHALL BE 1/2" THICK AND SHALL BE MADE OF CONCRETE OR POLYPROPYLENE</p> <p>5. THE COVER SHALL BE 1/2" THICK AND SHALL BE MADE OF CONCRETE OR POLYPROPYLENE</p> <p>6. THE COVER SHALL BE 1/2" THICK AND SHALL BE MADE OF CONCRETE OR POLYPROPYLENE</p> <p>7. IF A SOLID COVER IS USED, THE COVER SHALL BE 1/2" THICK AND SHALL BE MADE OF CONCRETE OR POLYPROPYLENE</p>	<p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.</p>	<table border="1"> <tr> <td>DRAWN BY</td> <td>EBC</td> <td>MATERIAL</td> </tr> <tr> <td>DATE</td> <td>09-14-07</td> <td>DUCTILE IRON</td> </tr> <tr> <td>REVISOR BY</td> <td>NMH</td> <td>PROJECT NO./NAME</td> </tr> <tr> <td>DATE</td> <td>06-12-18</td> <td></td> </tr> <tr> <td>DWG SIZE</td> <td>A</td> <td>SCALE 1:40 SHEET 1 OF 1</td> </tr> </table>	DRAWN BY	EBC	MATERIAL	DATE	09-14-07	DUCTILE IRON	REVISOR BY	NMH	PROJECT NO./NAME	DATE	06-12-18		DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	<table border="1"> <tr> <td colspan="2"> </td> </tr> <tr> <td>TITLE</td> <td>DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL</td> </tr> <tr> <td>DWG NO.</td> <td>7001-110-298</td> </tr> <tr> <td>REV</td> <td>E</td> </tr> </table>			TITLE	DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL	DWG NO.	7001-110-298	REV	E
DRAWN BY	EBC	MATERIAL																								
DATE	09-14-07	DUCTILE IRON																								
REVISOR BY	NMH	PROJECT NO./NAME																								
DATE	06-12-18																									
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1																								
TITLE	DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL																									
DWG NO.	7001-110-298																									
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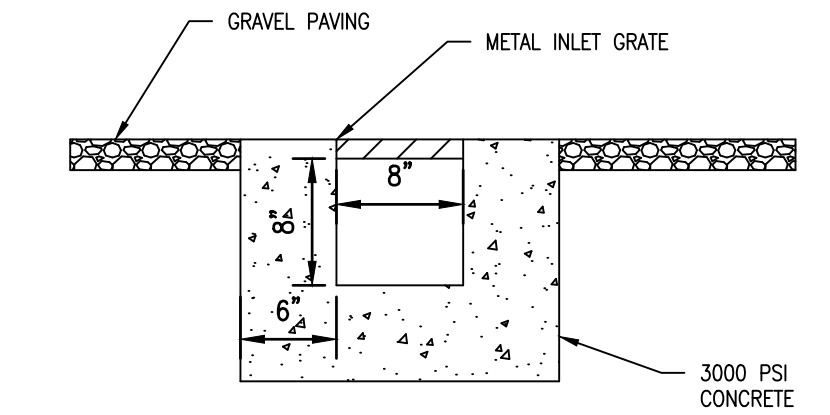


**18 INCH STANDARD GRATE INLET TOP**  
N.T.S.

<p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.</p>	<table border="1"> <tr> <td>DRAWN BY</td> <td>EBC</td> <td>MATERIAL</td> </tr> <tr> <td>DATE</td> <td>3-8-08</td> <td>DUCTILE IRON</td> </tr> <tr> <td>REVISOR BY</td> <td>EBC</td> <td>PROJECT NO./NAME</td> </tr> <tr> <td>DATE</td> <td>3-13-10</td> <td></td> </tr> <tr> <td>DWG SIZE</td> <td>A</td> <td>SCALE 1:10 SHEET 1 OF 1</td> </tr> </table>	DRAWN BY	EBC	MATERIAL	DATE	3-8-08	DUCTILE IRON	REVISOR BY	EBC	PROJECT NO./NAME	DATE	3-13-10		DWG SIZE	A	SCALE 1:10 SHEET 1 OF 1	<table border="1"> <tr> <td colspan="2"> </td> </tr> <tr> <td>TITLE</td> <td>18 IN STANDARD GRATE ASSEMBLY - TYPE C</td> </tr> <tr> <td>DWG NO.</td> <td>7001-110-213</td> </tr> <tr> <td>REV</td> <td>C</td> </tr> </table>			TITLE	18 IN STANDARD GRATE ASSEMBLY - TYPE C	DWG NO.	7001-110-213	REV	C
DRAWN BY	EBC	MATERIAL																							
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TITLE	18 IN STANDARD GRATE ASSEMBLY - TYPE C																								
DWG NO.	7001-110-213																								
REV	C																								



**PIPE JOINT WRAP**  
N.T.S.



**TRENCH DRAIN DETAIL**  
N.T.S.

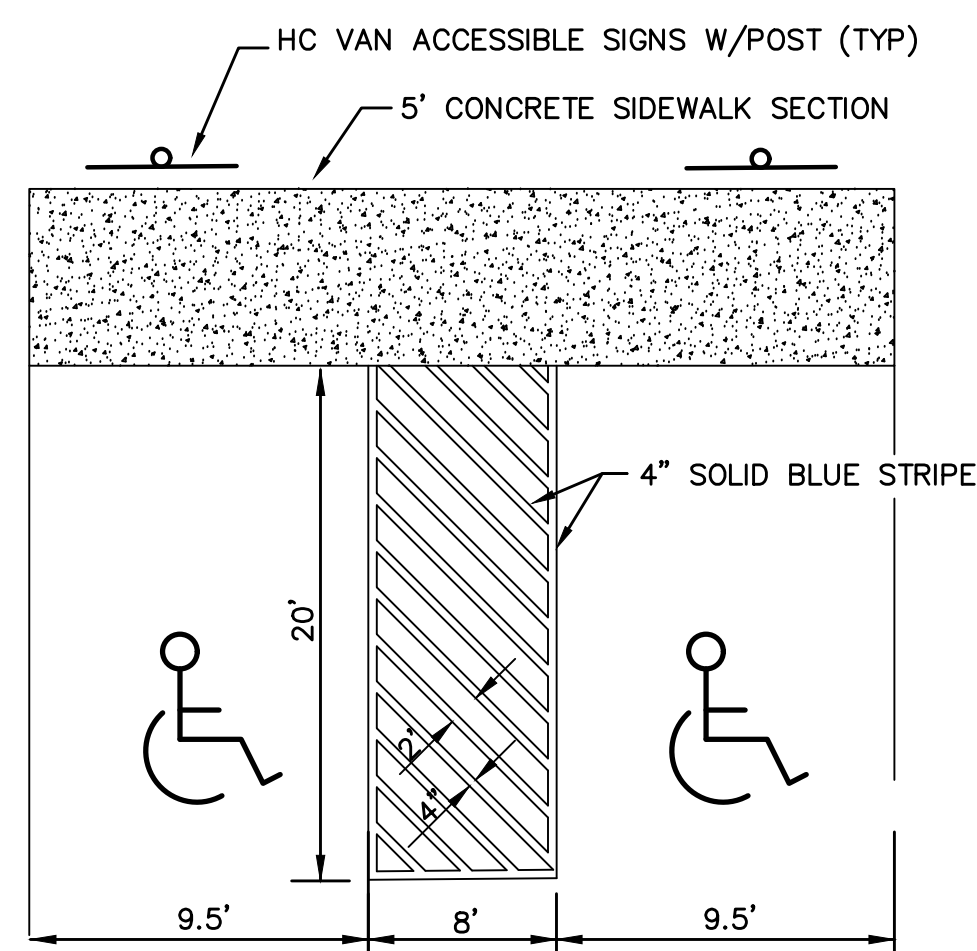
NUMBER:	REVISION:	DATE:

**Sawgrass**  
CONSULTING, LLC  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527 Phone: (251) 544-7900  
Phone: (251) 970-7900

CIVIL CONSTRUCTION DETAILS  
WILDERNESS CENTER  
CITY OF ORANGE BEACH

SCALE: NTS  
DATE: MAY 2021  
DRAWN BY: KL  
CHECKED BY: JR  
SHEET: 11 OF 15





**HANDICAPPED PARKING STRIPING DETAIL**  
N.T.S.

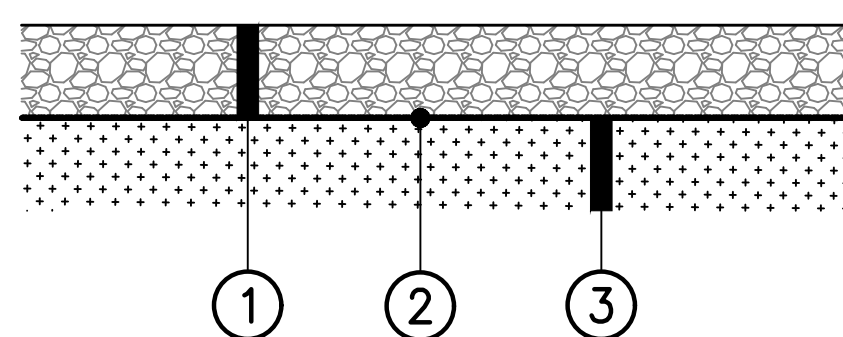
**NOTE:**

PARKING STRIPING SHALL BE DONE PER THE REQUIREMENTS OF ALDOT ITEM 701-A SOLID WHITE CLASS 1, TYPE A, 5" WIDE STRIPES. MATERIALS AND CONSTRUCTION REQUIREMENTS OF 701-A, SHALL BE ADHERED TO. HANDICAPPED PARKING SPACES SHALL BE STRIPED IN SOLID BLUE, WITH ACCESS AISLES STRIPED AT TWO FEET ON CENTER AND STANDARD HANDICAPPED SYMBOLS.

**CONCRETE NOTE:**

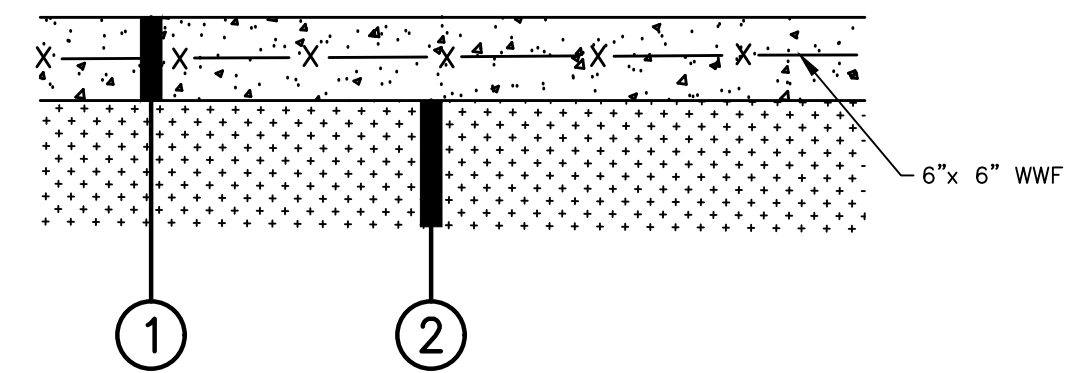
JOINTS SHOULD BE INSTALLED IN THE PCC PAVEMENTS TO LIMIT STRESSES RESULTING FROM EXPANSION AND CONTRACTION. CONTRACTION JOINTS SHOULD BE FORMED BY SAWING AS SOON AS THE CONCRETE HAS HARDENED ENOUGH TO PREVENT RAVELING. THESE JOINTS SHOULD EXTEND TO A DEPTH OF AT LEAST 1/4 OF THE PAVEMENT THICKNESS AND BE PLACED ON A 12 TO 15 FOOT SPACING. THE DESIGN AND LOCATION OF ALL PAVEMENT JOINTS SHOULD BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND ACI 330.

ISOLATION JOINT MATERIAL SHOULD COMPLY WITH ACI STANDARDS. THE UPPER ONE INCH OF THE JOINT MATERIAL SHOULD BE REMOVED AND THE JOINT SEALED WITH A SELF-LEVELING ELASTOMERIC JOINT SEALANT IMMEDIATELY AFTER THE CURING PERIOD AND PRIOR TO OPENING TO TRAFFIC. CONSTRUCTION JOINTS SHOULD BE PROPERLY CLEANED AND SEALED WITH THE SAME TYPE OF JOINT SEALANT. DOWEL SIZING AND SPACING FOR CONSTRUCTION JOINTS SHOULD CONFORM TO THE RECOMMENDATIONS OF ACI 330.



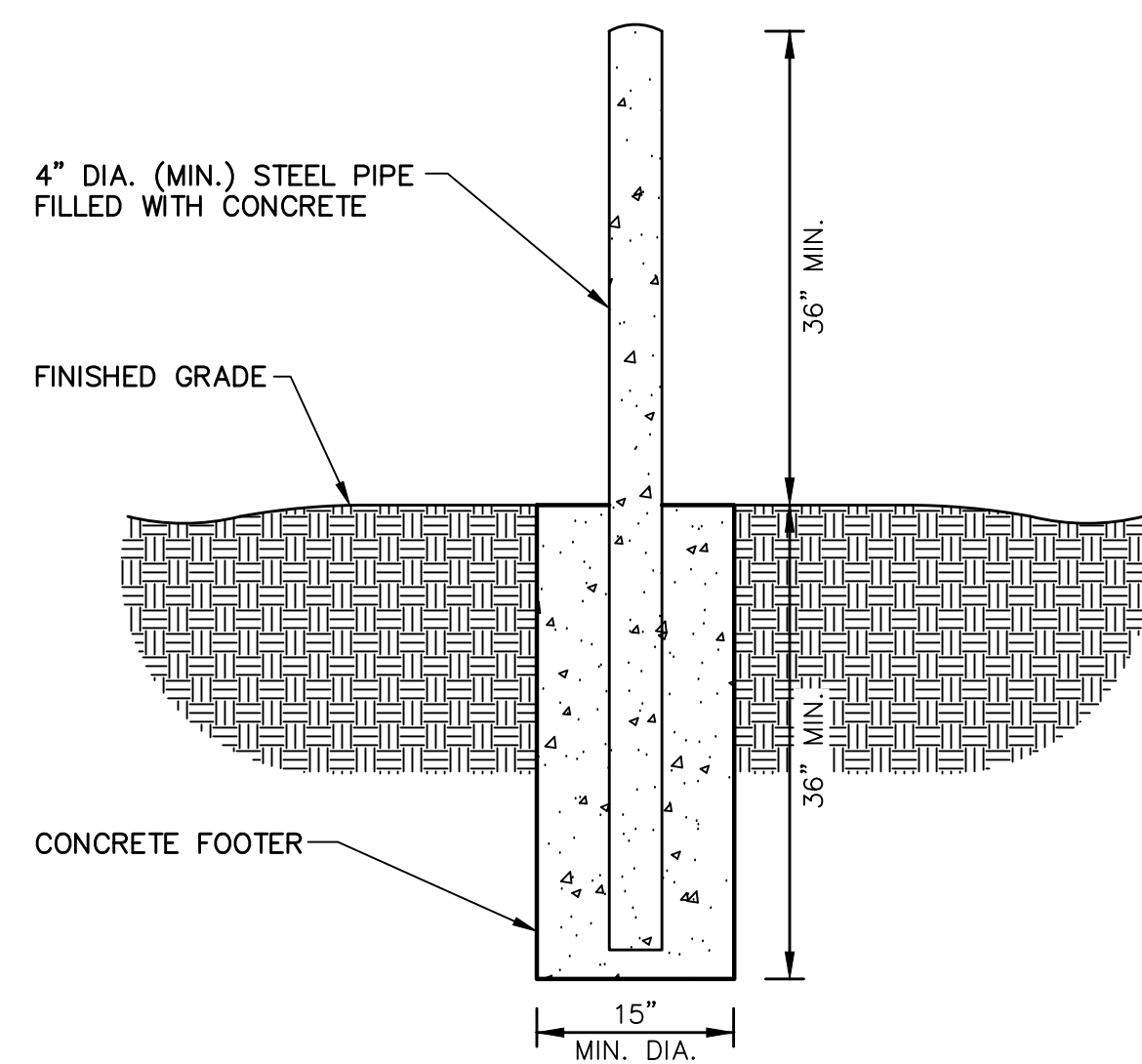
**GRAVEL PARKING/DRIVE SECTION**  
N.T.S.

- #57 CRUSHED LIMESTONE, 4" THICK
- SEPARATION FABRIC (MARIFI 500X OR APPROVED EQUAL)
- IN-SITU MATERIAL OR BORROW (A-2-4 MATERIAL OR BETTER) (TOP 6" COMPACTED TO 100% STANDARD DENSITY)



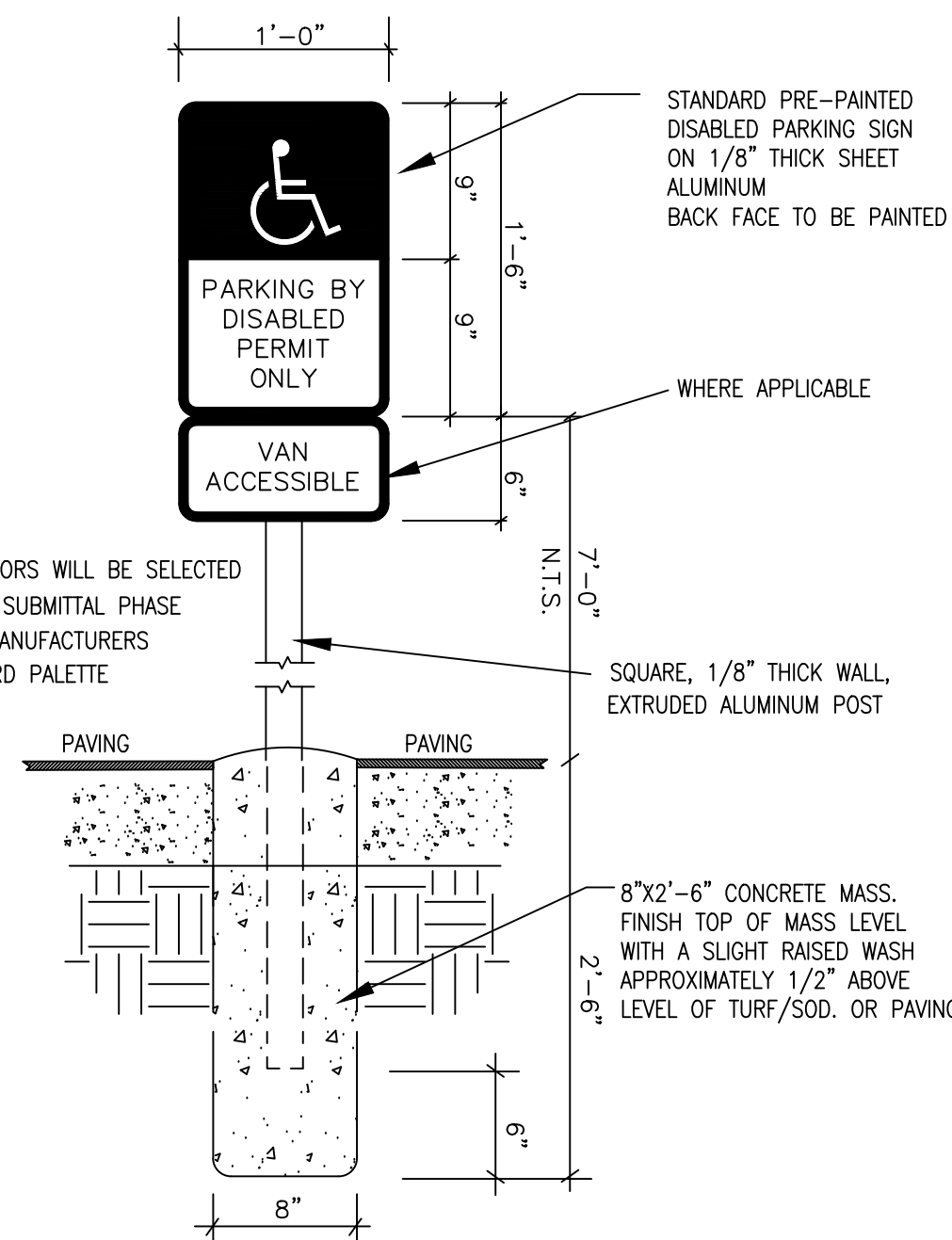
**CONCRETE PARKING/PAD SECTION**  
N.T.S.

- 6" CONCRETE PAVEMENT (4,000 PSI COMPRESSIVE STRENGTH, 450 PSI FLEXURAL STRENGTH)
- COMPACT NATIVE SUBGRADE OR STRUCTURAL FILL (TOP 12" COMPACTED TO 100% STANDARD DENSITY)



BOLLARDS SHALL BE LOCATED 2' FROM BUILDING AND 1' FROM DRIVE

**BOLLARD PROTECTION DETAIL**  
N.T.S.



**H/C PARKING SIGN DETAIL**  
N.T.S.

**\* GENERAL NOTES**

- ALL LEGENDS AND MARKINGS SHALL CONFORM TO THE MUTCD.
- THE AREA SHOWN FOR MARKINGS AND LEGENDS ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING AND PAYMENT PURPOSES.
- THE FIRST TURN LANE LEGEND SHALL BE LOCATED ADJACENT TO THE BEGINNING OF THE SPEED CHANGE LANE LINE.
- ALL LEGENDS AND MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED ON DETAIL.
- ALL LETTERS OF THE ALPHABET AND NUMERALS SHALL BE CLASSIFIED AS LEGENDS. ALL OTHERS SHALL BE CLASSIFIED AS MARKINGS, UNLESS OTHERWISE NOTED AS "SPECIALTY TRAFFIC CONTROL MARKINGS".

**HANDICAP PYMT MARKING SYMBOL**  
"SPECIALTY TRAFFIC CONTROL MARKINGS"  
AREA 2.36 SQ FT

**LANE REDUCTION**  
AREA 42.29 SQ FT

---SPECIFICATIONS---  
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

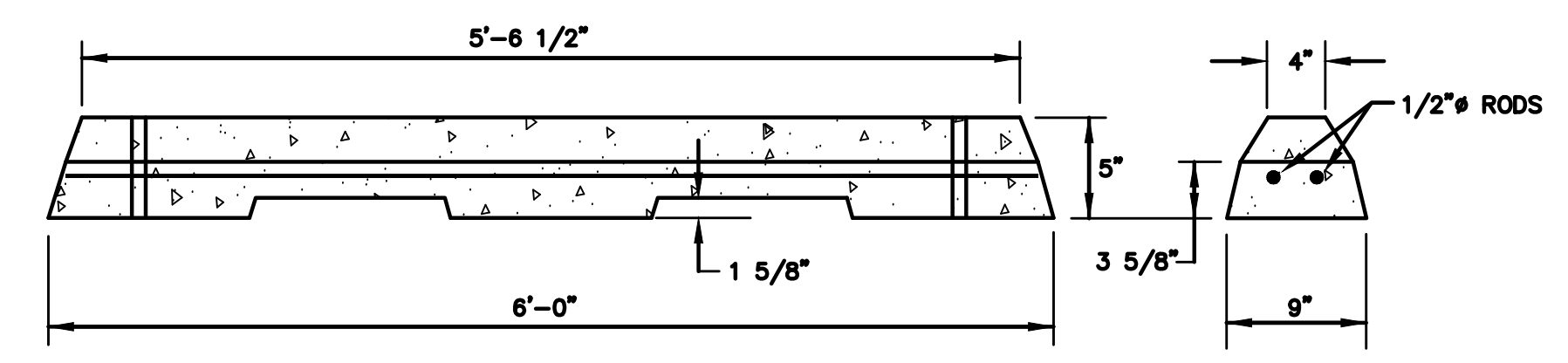
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**ALABAMA DEPARTMENT OF TRANSPORTATION**  
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MONTGOMERY, AL 36103-3050

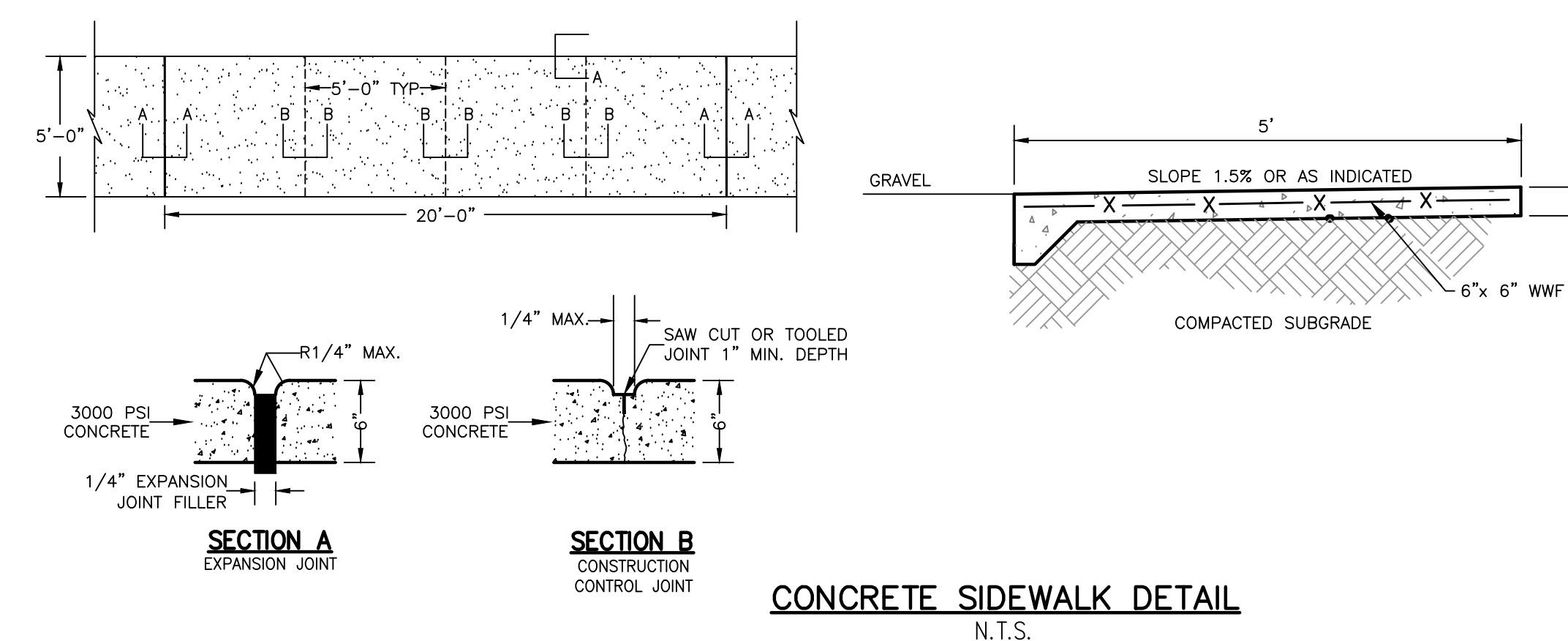
DESIGN BUREAU SPECIAL DRAWING  
PAVEMENT LEGENDS AND MARKINGS DETAILS

SPECIAL DRAWING NO. TCM-703 (SHEET 2 OF 2) DRAWING NO. 1049

DATE DRAWN: 11-26-21



**PRECAST CONCRETE WHEEL STOPS**  
N.T.S.  
APPROX. WEIGHT - 33 LBS/FT



**CONCRETE SIDEWALK DETAIL**  
N.T.S.

NUMBER:	REVISION:	DATE:

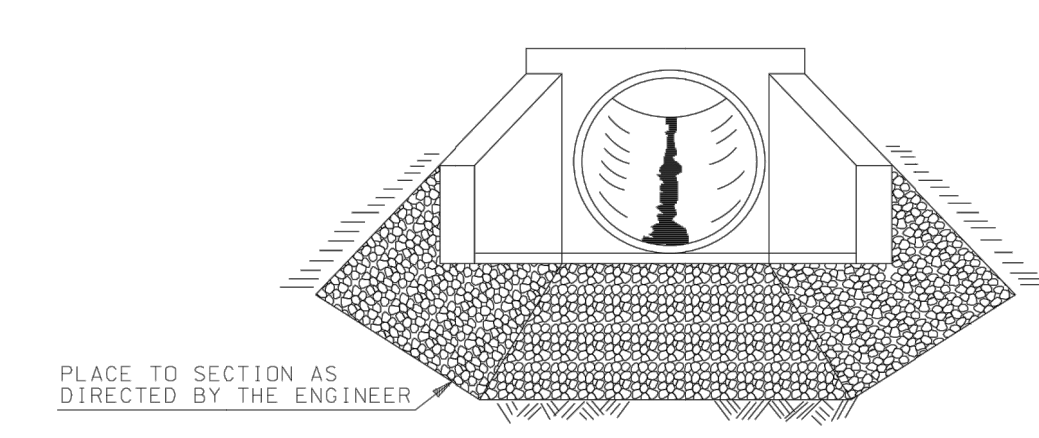
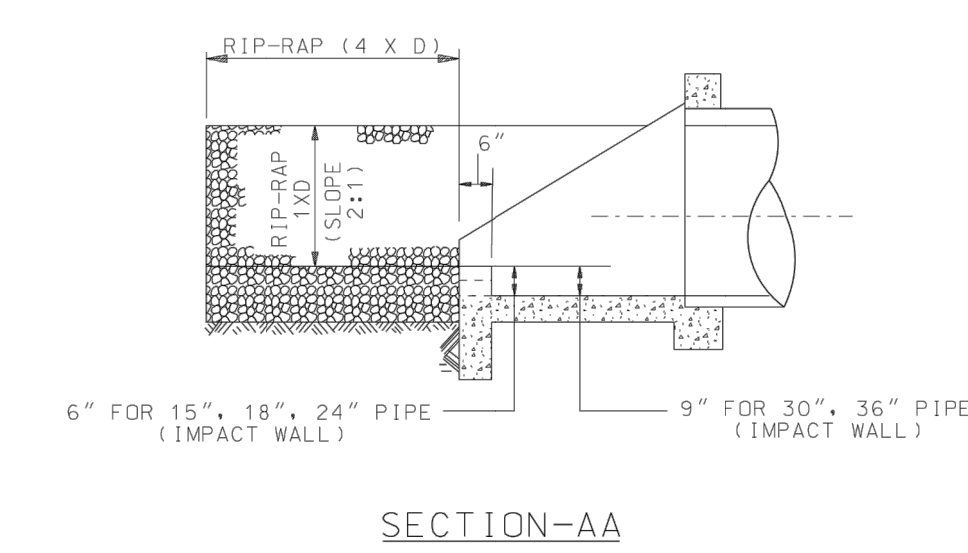
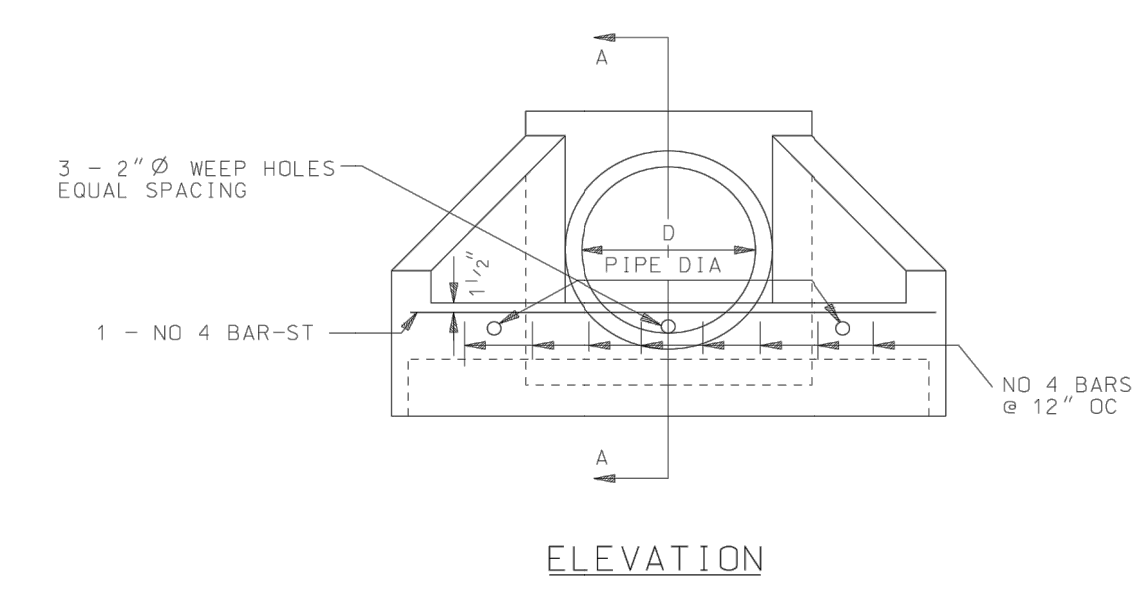
**Sawgrass**  
CONSULTING, LLC  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527  
Phone: (251) 544-7900  
Phone: (251) 970-7900

CIVIL CONSTRUCTION DETAILS - 2  
TRAIL SHOP / WILDLIFE CENTER  
CITY OF ORANGE BEACH

SCALE: NTS  
DATE: MAY 2021  
DRAWN BY: KL  
CHECKED BY: JR  
SHEET: 12 OF 15



REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



PERSPECTIVE VIEW

ESTIMATED QUANTITIES FOR IMPACT WALL  
(TO BE ADDED TO QUANTITIES FOR FLARED HEADWALL)

PIPE SIZE	SLOPE	CONC-CU YDS			STEEL-LBS			ESTIMATED RIP-RAP-TONS
		0° SK	30° SK	45° SK	0° SK	30° SK	45° SK	
15	2:1	.05	.05	.05	7.0	7.0	9.0	5
15	3:1	.05	.05	.08	7.0	8.0	11.0	5
15	4:1	.05	.05	.10	7.0	9.0	14.0	5
18	2:1	.05	.06	.08	7.5	7.5	11.0	8
18	3:1	.06	.07	.09	7.5	9.0	13.0	8
18	4:1	.07	.07	.11	8.5	10.5	16.0	8
24	2:1	.07	.08	.10	10.0	10.0	14.0	10
24	3:1	.07	.10	.12	10.0	11.0	17.0	10
24	4:1	.12	.12	.15	11.0	13.5	21.0	10
30	2:1	.12	.14	.17	13.0	13.0	19.0	12
30	3:1	.12	.20	.20	13.0	15.0	23.0	12
30	4:1	.13	.22	.22	14.5	18.0	28.0	12
36	2:1	.14	.20	.20	15.0	15.0	22.0	15
36	3:1	.14	.26	.26	15.0	18.0	27.0	15
36	4:1	.16	.30	.30	17.0	21.0	33.0	15

---GENERAL NOTES---  
1. LOOSE RIP-RAP TO BE CLASS 2 AND PLACED TO THE SECTION DIRECTED BY THE ENGINEER.

---SPECIFICATIONS---  
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS  
1. Add to CAD on 06-21-99 by Joe F. Thomas

ALABAMA DEPARTMENT OF TRANSPORTATION  
400 COLLEGE BOULEVARD  
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

DETAILS OF IMPACT DISSIPATOR

Bureau Srd Engr: D.J.W.  
DRAWN BY: DATE DRAWING: 10-19-89

SPECIAL DRAWING NO  
ID-621

INDEX NO  
62190

NOT TO SCALE

NUMBER:	REVISION:	DATE:

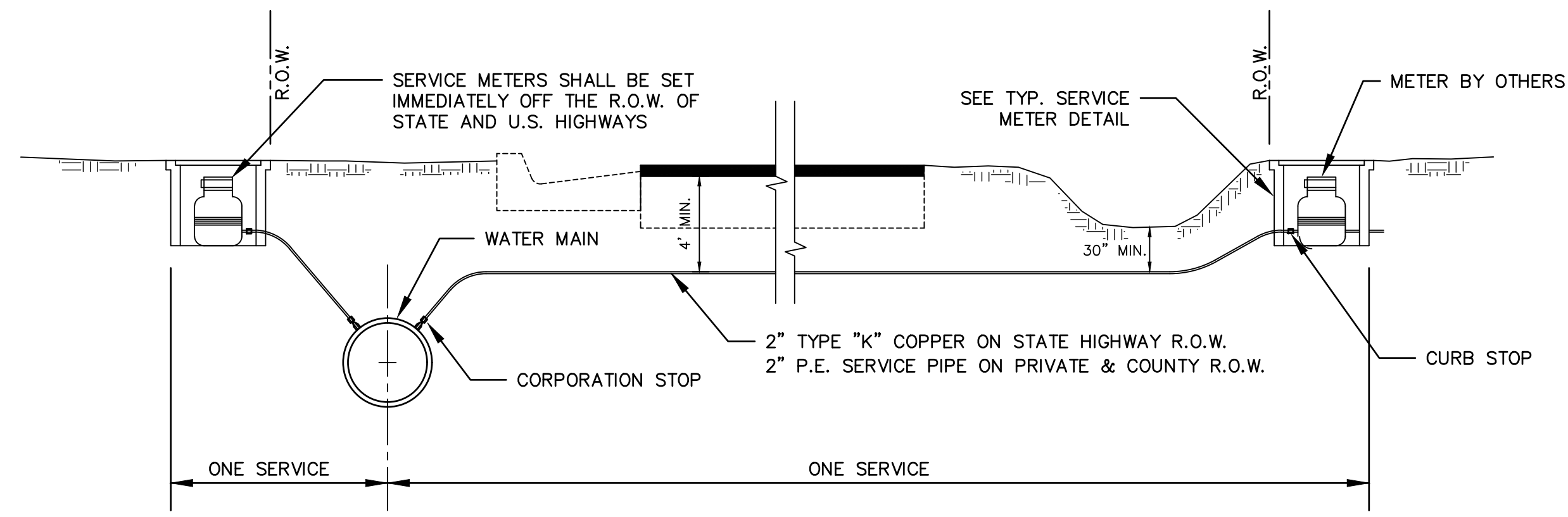
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527  
Phone: (251) 544-7900  
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CIVIL CONSTRUCTION DETAILS - 3  
TRAIL SHOP / WILDLIFE CENTER  
CITY OF ORANGE BEACH



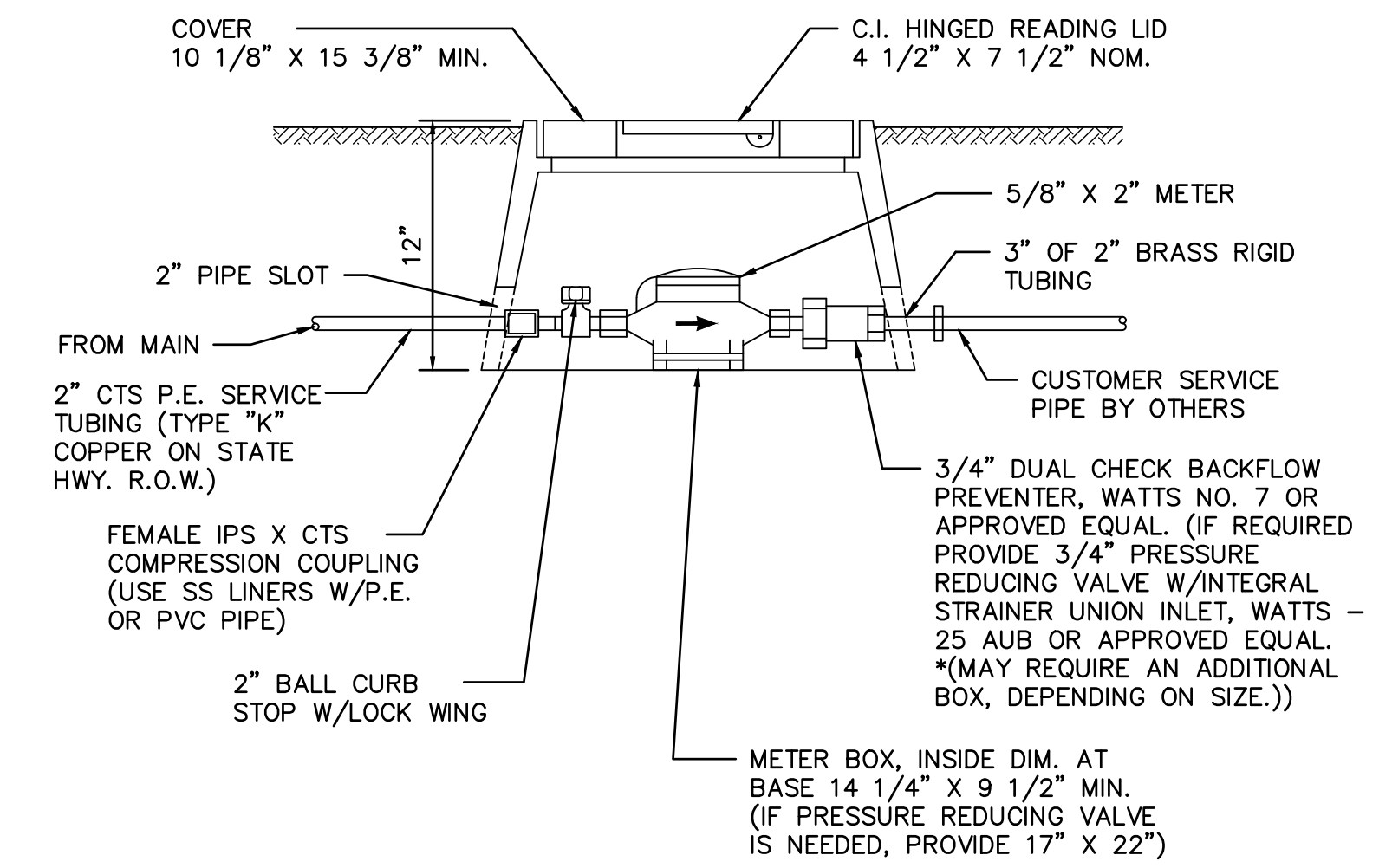
SCALE:	NTS
DATE:	MAY 2021
DRAWN BY:	KL
CHECKED BY:	JR
SHEET:	13 OF 15





**TYPICAL SERVICE CONNECTION**  
N.T.S.

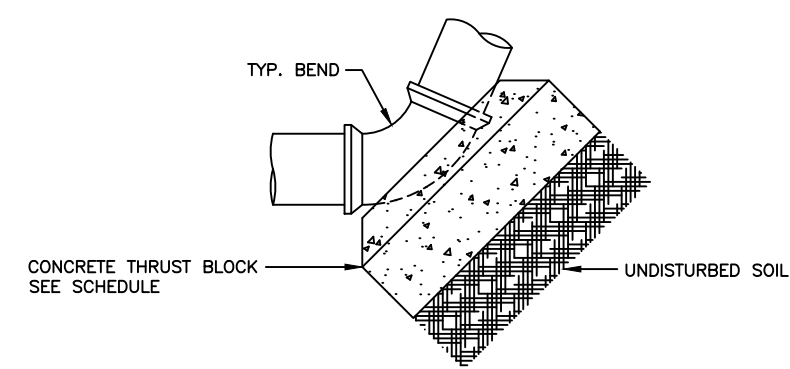
ALL COMPONENTS SHALL BE PER  
REQUIRED BY ORANGE BEACH WATER  
AUTHORITY



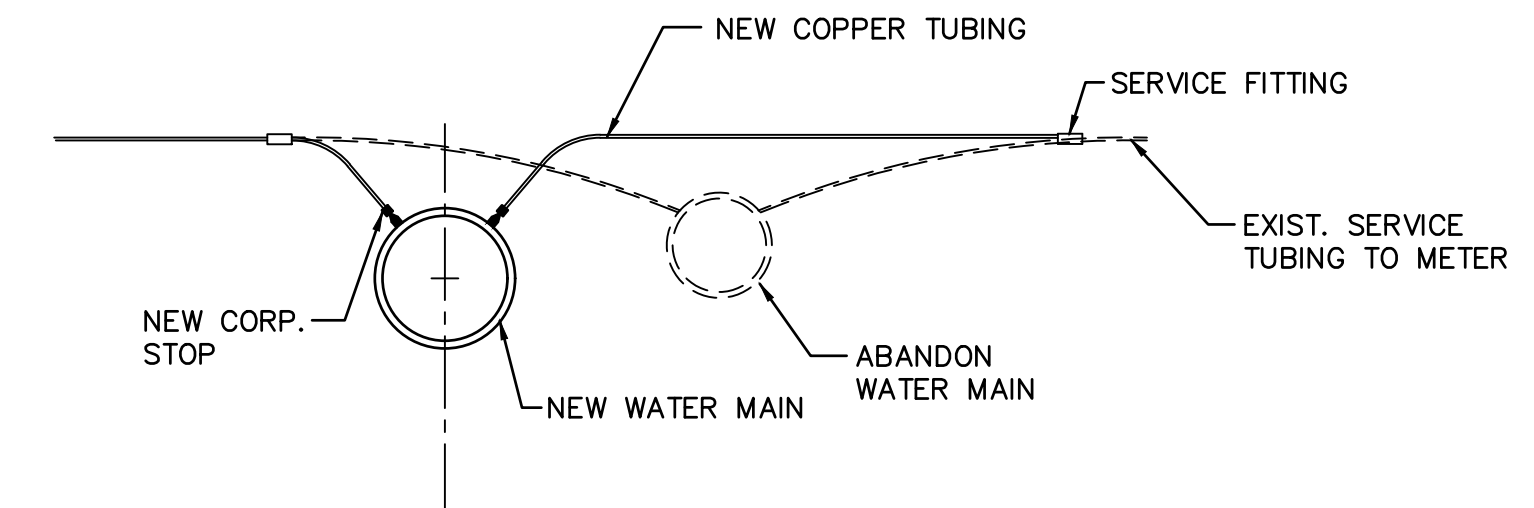
**TYPICAL SERVICE METER / (PRESSURE REGULATOR)**  
N.T.S.

SIZE	THRUST BLOCK BEARING AREAS (SQ.FT.)					VERTICAL ANCHOR BLOCK VOLUMES		
	PLUGGED END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	45° VERT. BEND	22-1/2° VERT. BEND	GATE VALVE
2" DIA. PIPE LINE	1.0	1.0	1.0	1.0	1.0	9.3 CU. FT.	4 CU. FT.	0.5 CU. FT.
4" DIA. PIPE LINE	1.9	2.6	1.4	1.0	1.0	21.1 CU. FT.	9.8 CU. FT.	0.8 CU. FT.
6" DIA. PIPE LINE	3.6	5.0	2.7	1.4	1.0	50 CU. FT.	16 CU. FT.	1.0 CU. FT.
8" DIA. PIPE LINE	5.8	8.2	4.4	2.25	1.2			1.5 CU. FT.

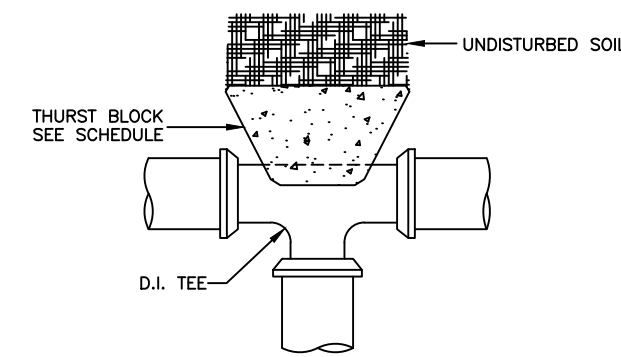
NOTE: THRUST BLOCK BEARING AREAS SHALL BE INCREASED IN POOR TRENCH CONDITIONS AS DIRECTED BY THE ENGINEER. DESIGN CRITERIA: TEST PRESSURE = 150 PSI SOIL BEARING PRESSURE = 1 TON PER SQ. FT.



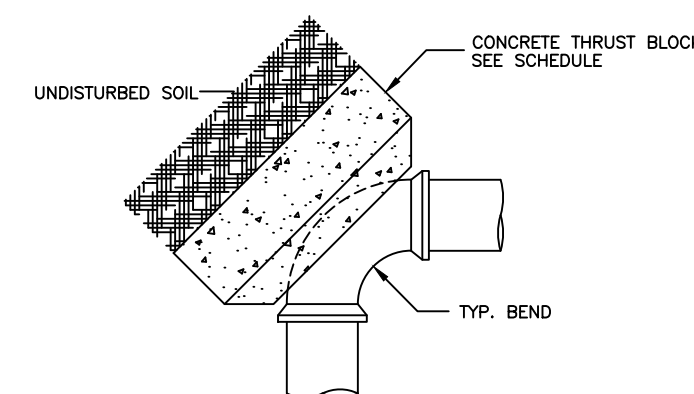
VERT. THRUST BLOCK DETAIL



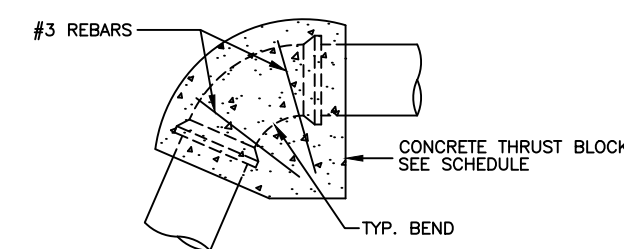
**CONNECTION OF EXISTING SERVICES**  
N.T.S.



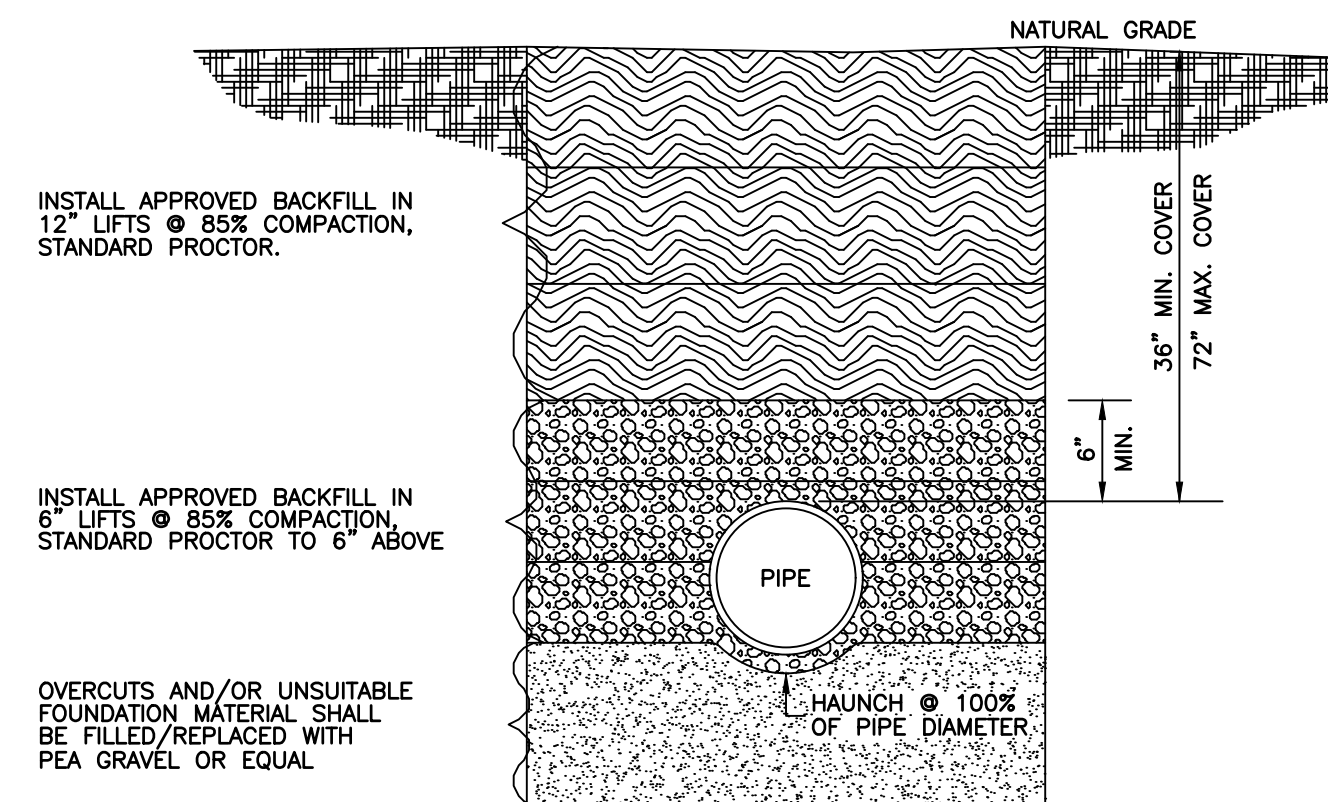
TEE THRUST BLOCK DETAIL



HORIZ. THRUST BLOCK DETAIL

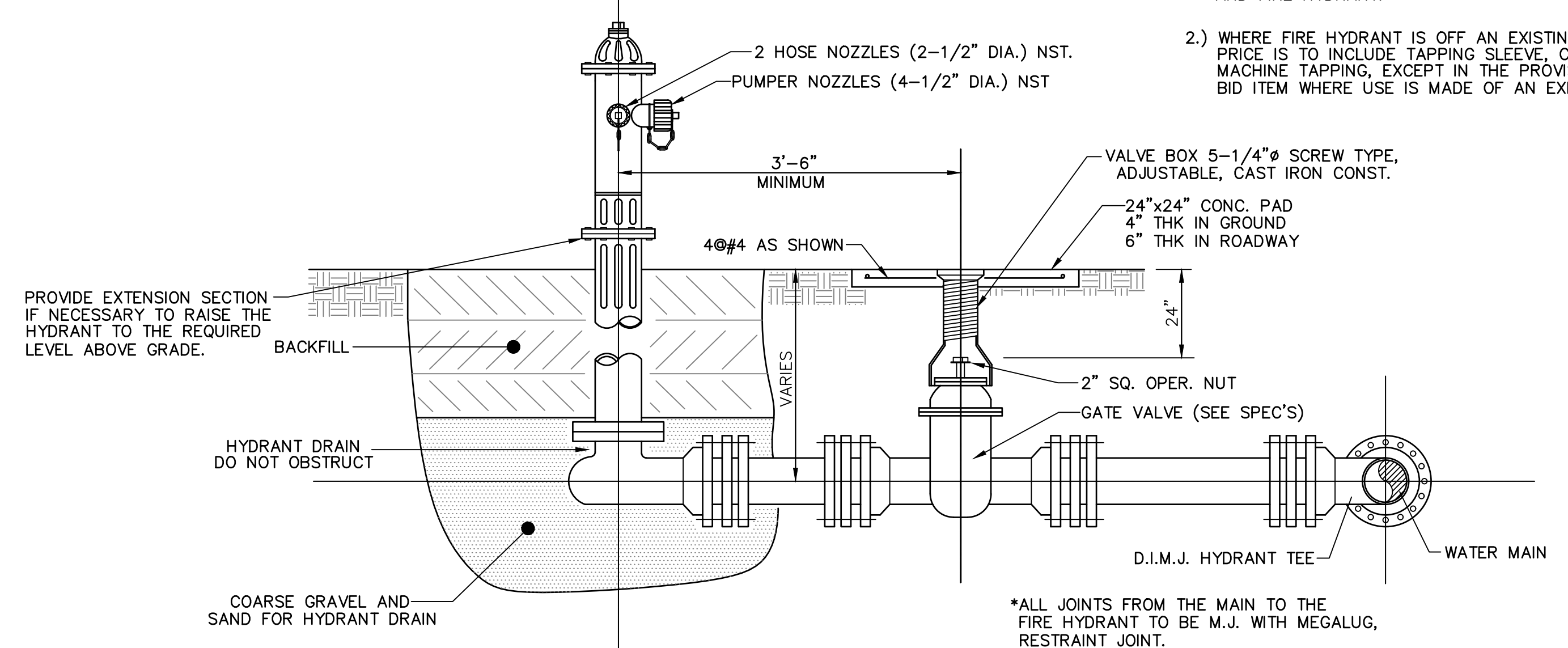


VERT. THRUST BLOCK DETAIL



**TYPICAL TRENCH DETAIL**  
N.T.S.

FIRE HYDRANT ASSEMBLY TO BE MUELLER CENTURIAN THREE WAY, 5-1/4" VALVE OPENING, A-423, OR AS REQUIRED BY ORANGE BEACH WATER AUTHORITY



**FIRE HYDRANT ASSEMBLY**  
N.T.S.

NOTE:

- 1.) FIRE HYDRANT ASSEMBLY UNIT OF PAYMENT TO INCLUDE EXCAVATION, BACKFILL, COMPACTION, THRUST BLOCKS, GATE VALVE, GATE VALVE BOX, CONCRETE PAD, DUCTILE IRON TEE, ALL CONNECTIONS, DUCTILE IRON PIPING, CONCRETE, GRAVEL AND FIRE HYDRANT.
- 2.) WHERE FIRE HYDRANT IS OFF AN EXISTING MAIN THE BID PRICE IS TO INCLUDE TAPPING SLEEVE, CONNECTION, AND MACHINE TAPPING, EXCEPT IN THE PROVISIONAL ALTERNATE BID ITEM WHERE USE IS MADE OF AN EXISTING HYDRANT TEE.

NUMBER:	REVISION:	DATE:

**Sawgrass**  
CONSULTING, LLC  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527 Phone: (251) 544-7900  
Phone: (251) 970-7900

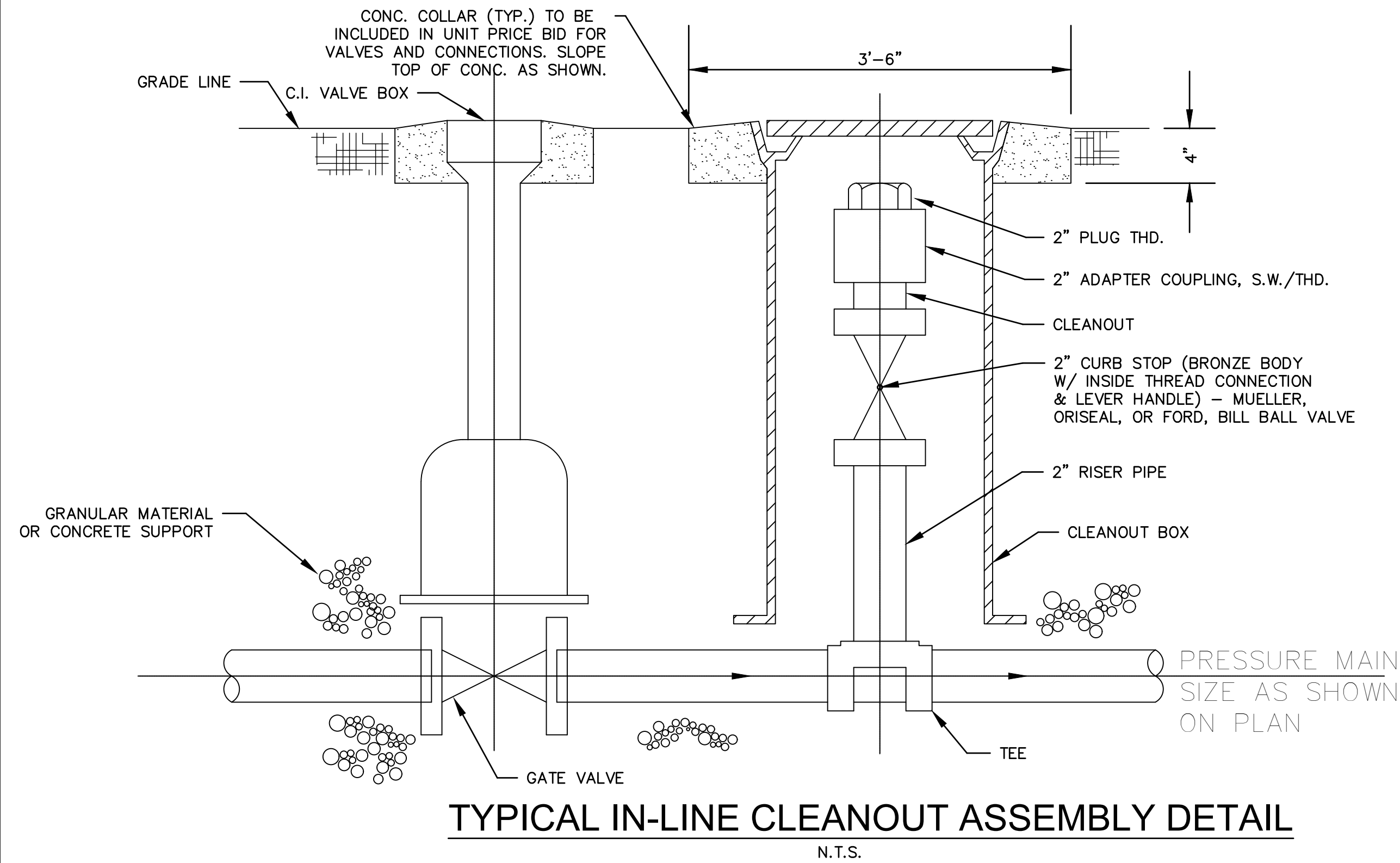
UTILITY DETAILS  
TRAIL SHOP / WILDLIFE CENTER  
CITY OF ORANGE BEACH



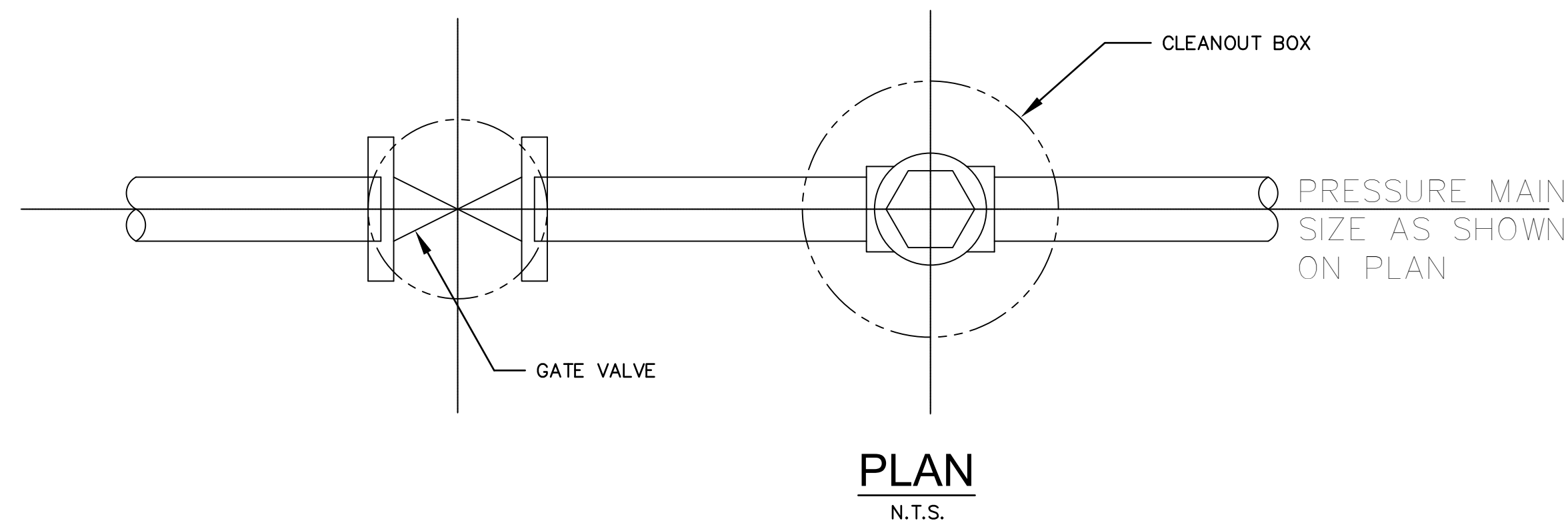
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DATE:	MAY 2021
DRAWN BY:	KL
CHECKED BY:	JR
SHEET:	14 OF 15



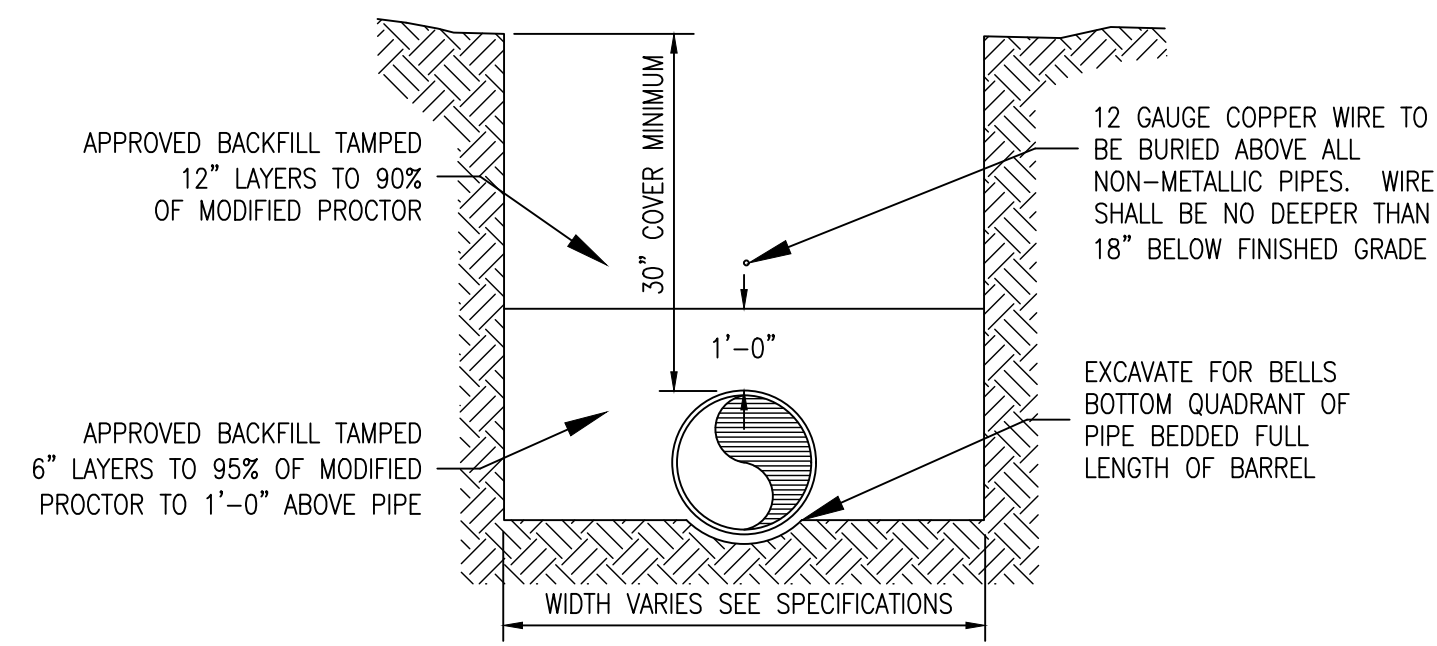
\*NOT ALL DETAILS MAY BE APPLICABLE TO THIS PROJECT



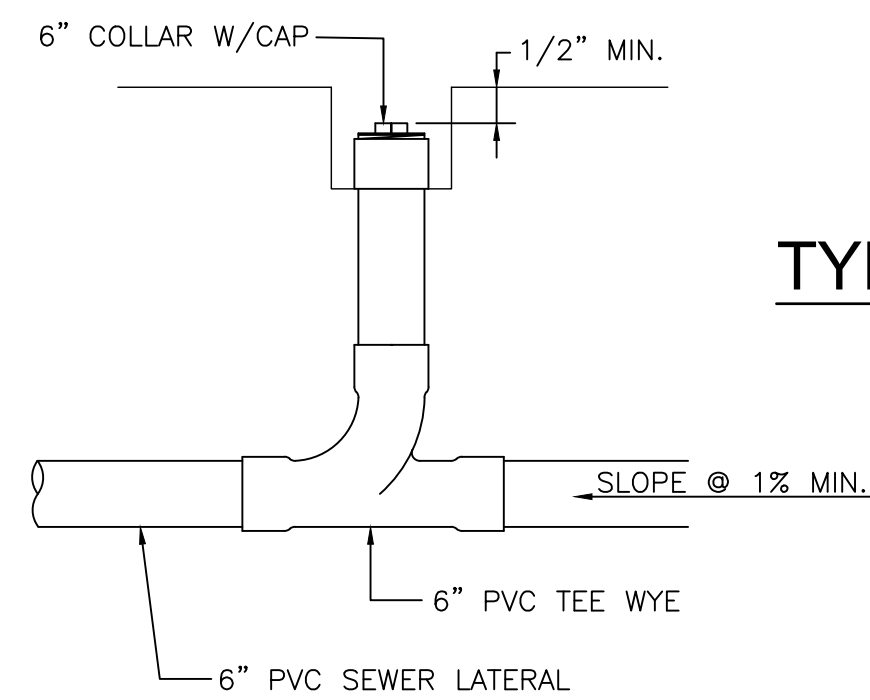
**TYPICAL IN-LINE CLEANOUT ASSEMBLY DETAIL**  
N.T.S.



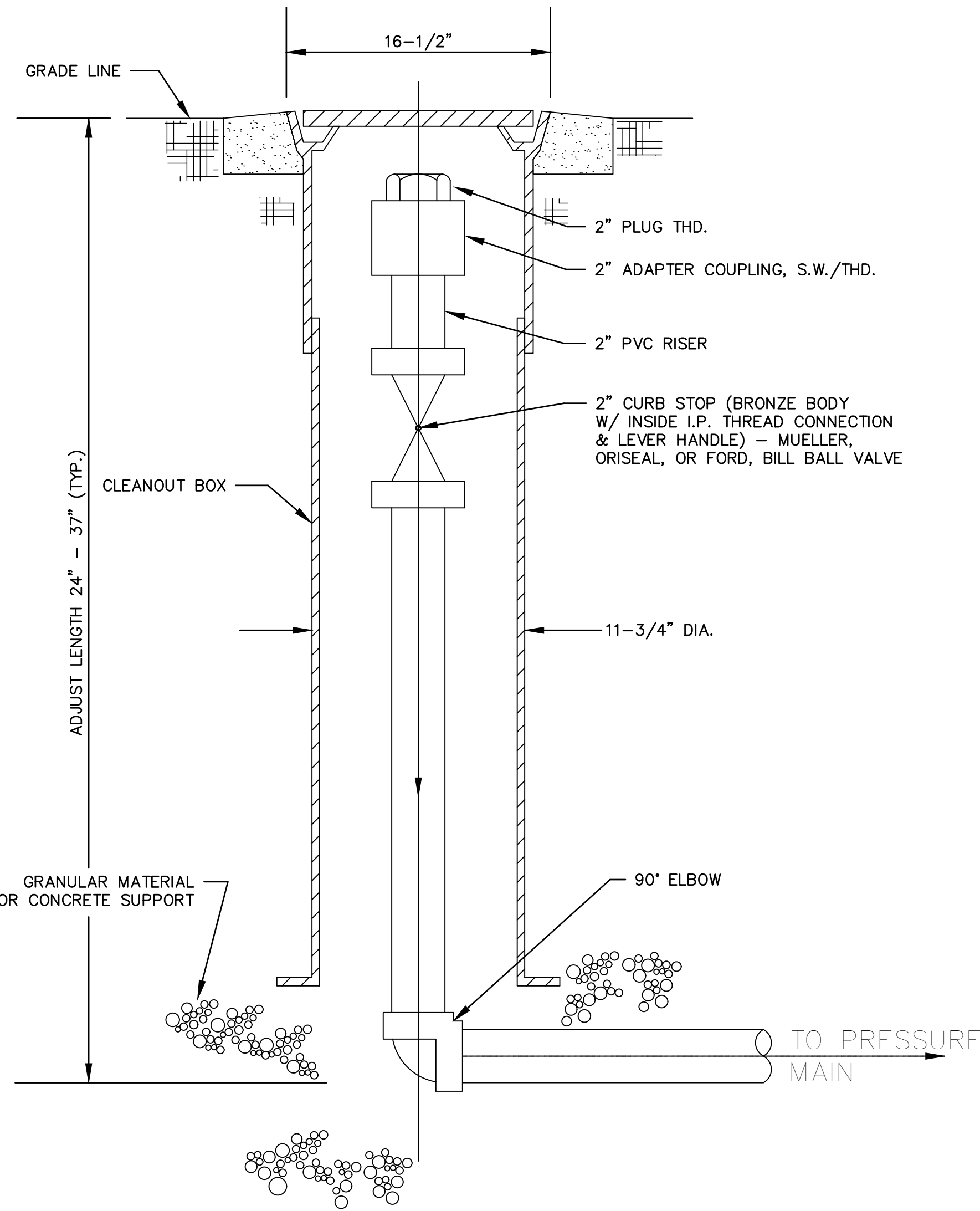
**PLAN**  
N.T.S.



**TYPICAL PRESSURE PIPE INSTALLATION DETAIL**  
N.T.S.



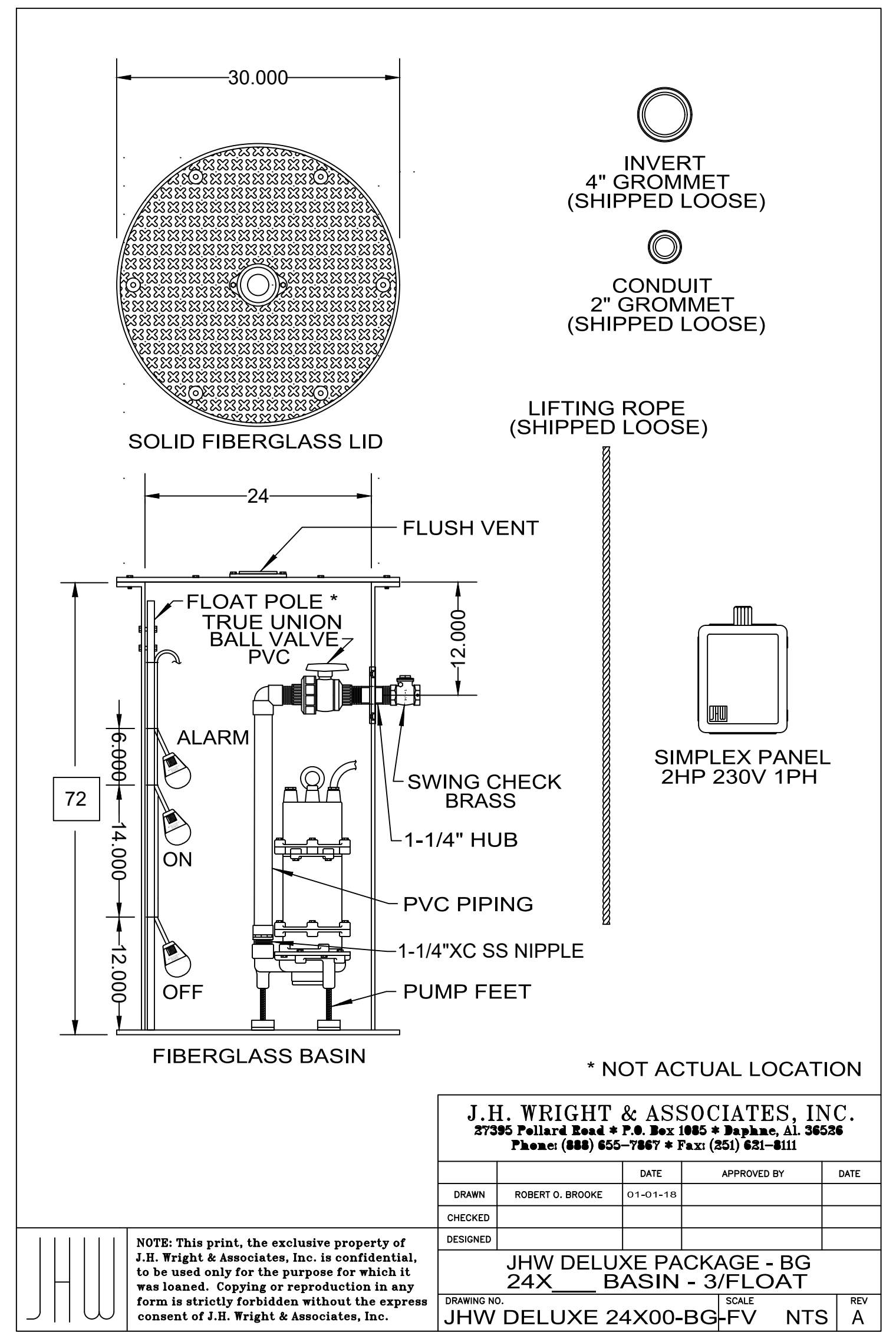
**SEWER CLEAN-OUT**  
N.T.S.



**TYPICAL END OF LINE CLEANOUT ASSEMBLY DETAIL**  
N.T.S.

**CLEANOUT BOX NOTES**

- CLEANOUT BOX SHALL BE CAST IRON, 12" ROUND SHAFT SCREW TYPE, ADJUSTABLE TWO PIECE CONSTRUCTION WITH 22" BOTTOM FLANGE AND COVER LETTERED "SEWER".
- CLEANOUT BOX MAY BE ADJUSTABLE ALONG C OF PIPE TO PROVIDE MAXIMUM ACCESSIBILITY TO THE CLEANOUT VALVE OPERATOR.
- CONCRETE COLLAR TO BE INCLUDED IN UNIT PRICE BID FOR CLEANOUT ASSEMBLY, JUNCTION ASSEMBLY, OR GATE VALVES.



<b>J.H. WRIGHT &amp; ASSOCIATES, INC.</b> 27395 Pellard Road • P.O. Box 1085 • Spanish Fort, AL 36528 Phone: (888) 655-7867 • Fax: (251) 621-8111			
DATE	APPROVED BY	DATE	
DRAWN: ROBERT O. BROOKE	01-01-18		
CHECKED			
DESIGNED			
DRAWING NO. JHW DELUXE 24X00-BG-FV		SCALE	REV
		NTS	A

NUMBER:	REVISION:	DATE:

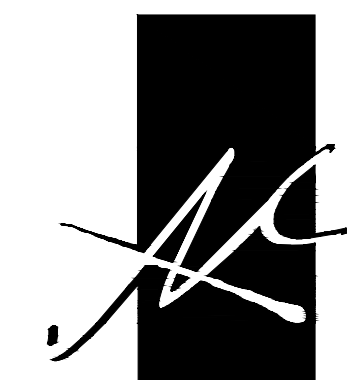
**Sawgrass**  
CONSULTING, LLC  
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT  
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527  
Phone: (251) 544-7900  
Phone: (251) 970-7900

SEWER DETAILS  
TRAIL SHOP / WILDLIFE CENTER  
CITY OF ORANGE BEACH



SCALE:	NTS
DATE:	MAY 2021
DRAWN BY:	KL
CHECKED BY:	JR
SHEET:	15 OF 15



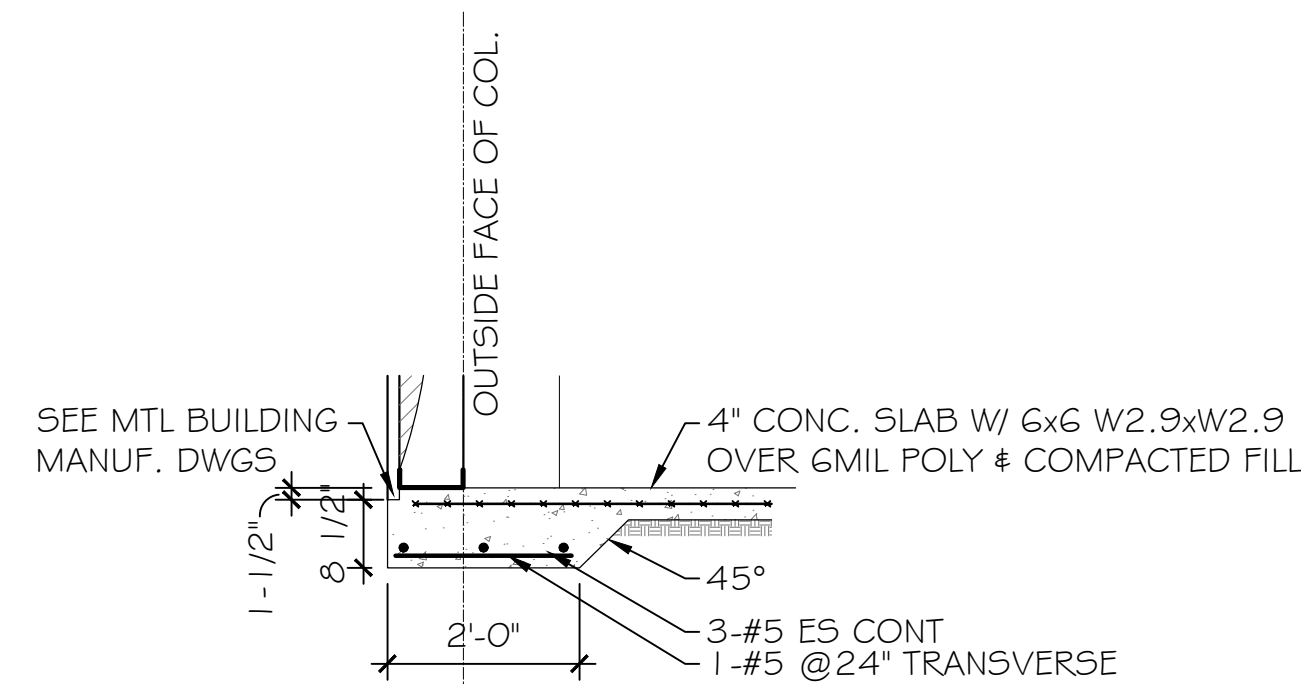


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ARCHITECTURE, INC.**  
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GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222

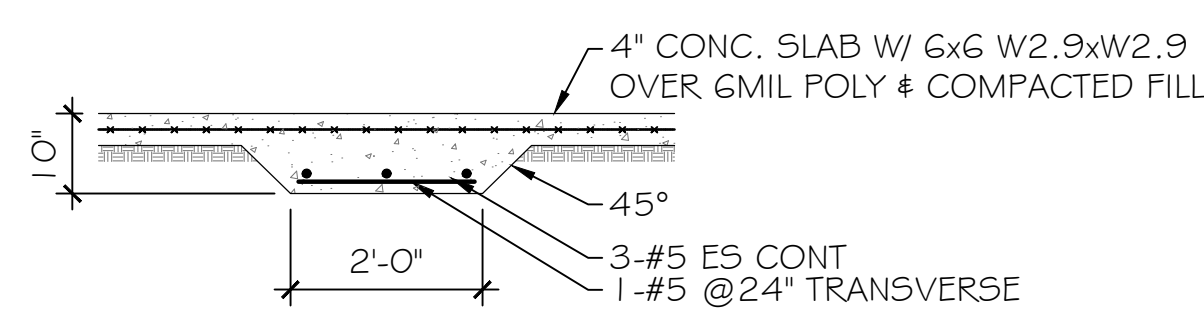
**FOR BIDDING  
PURPOSES ONLY**

**NEW BUILDING CONCEPTS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA**

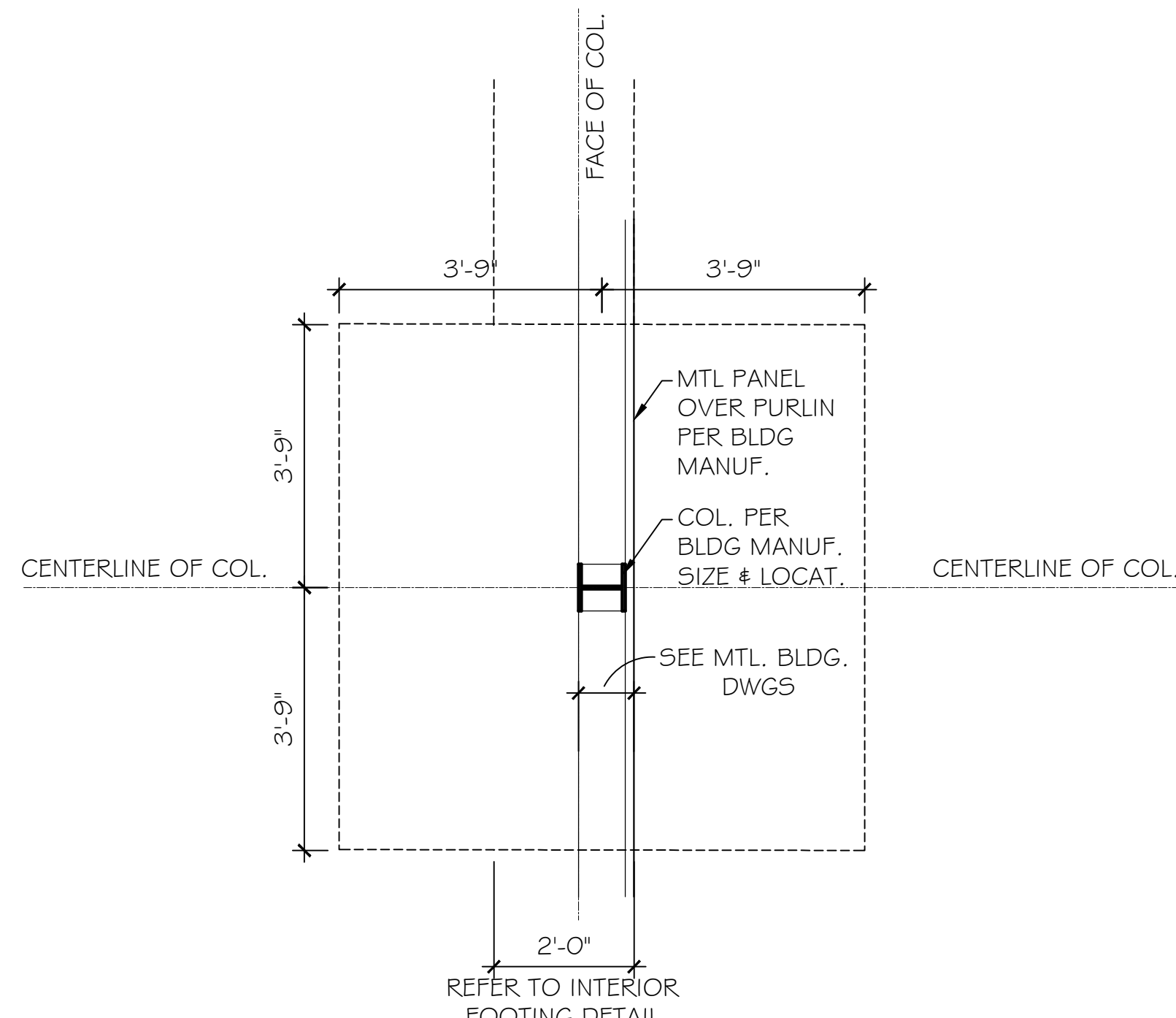
DRAWINGS & NOTES ON THIS SHEET PREPARED BY OTHERS, THIS SHEET IS FOR BIDDING PURPOSES ONLY



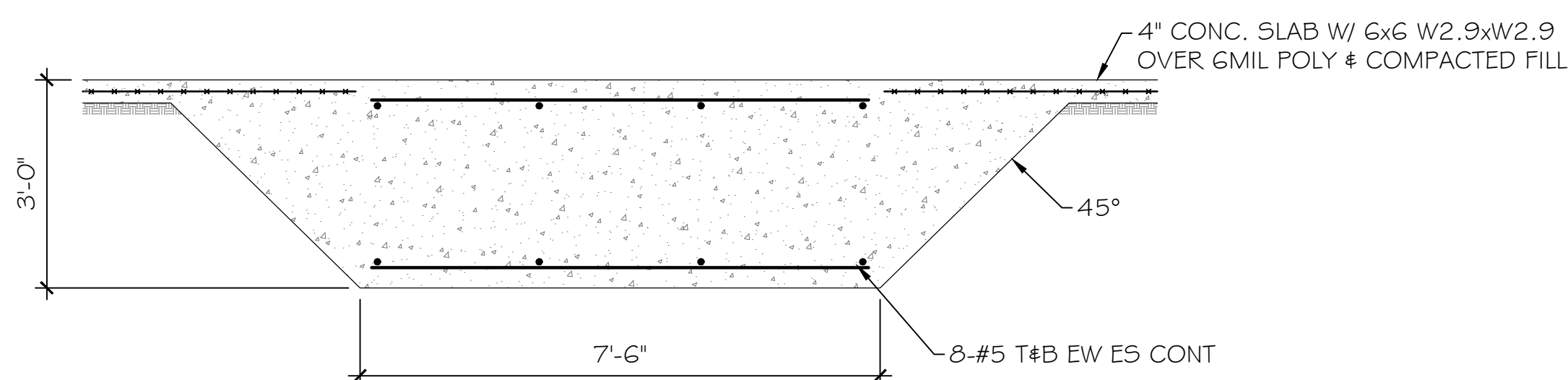
**PERIMETER FOOTING**  
SCALE: 1/2"=1'-0"



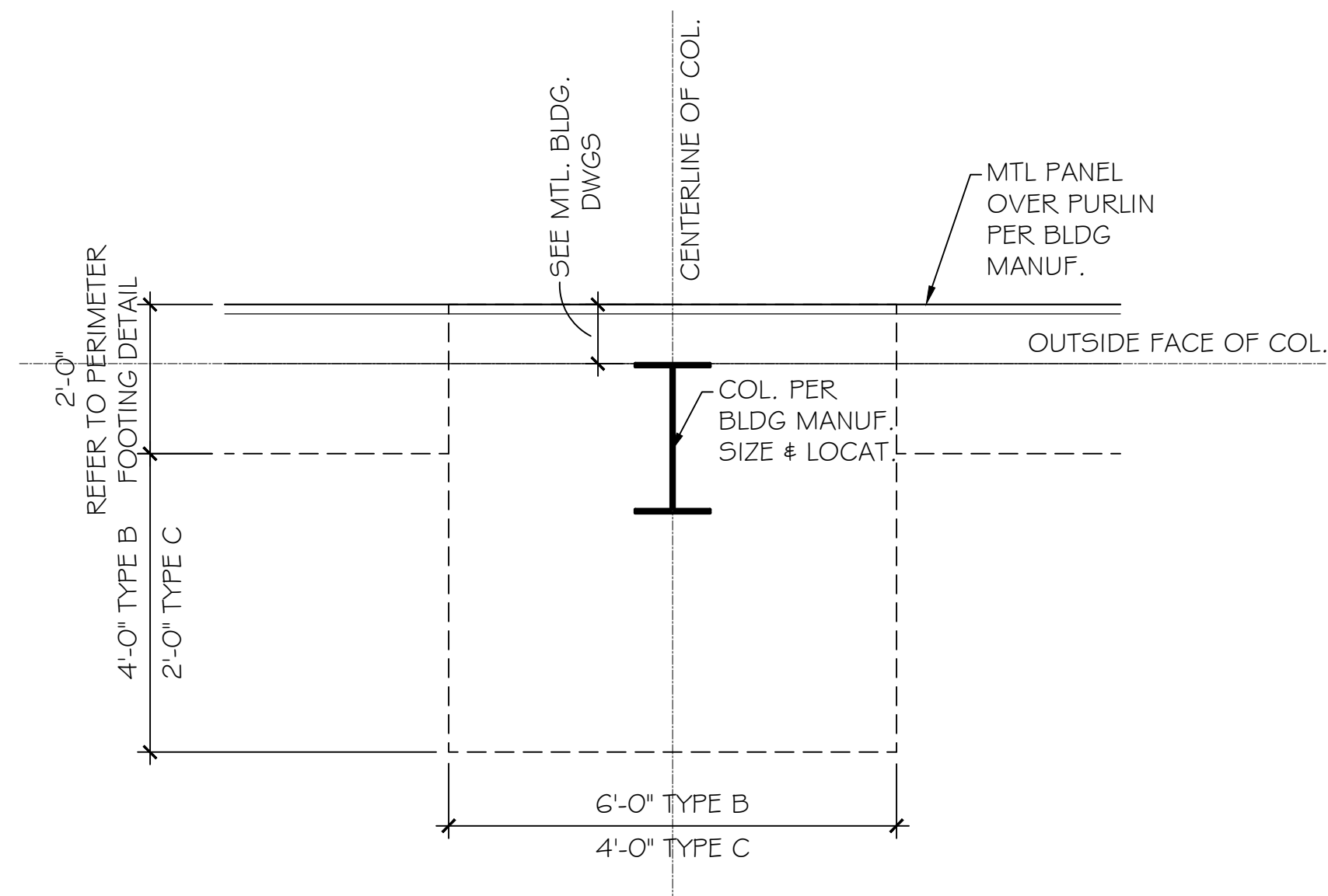
**INTERIOR FOOTING**  
SCALE: 1/2"=1'-0"



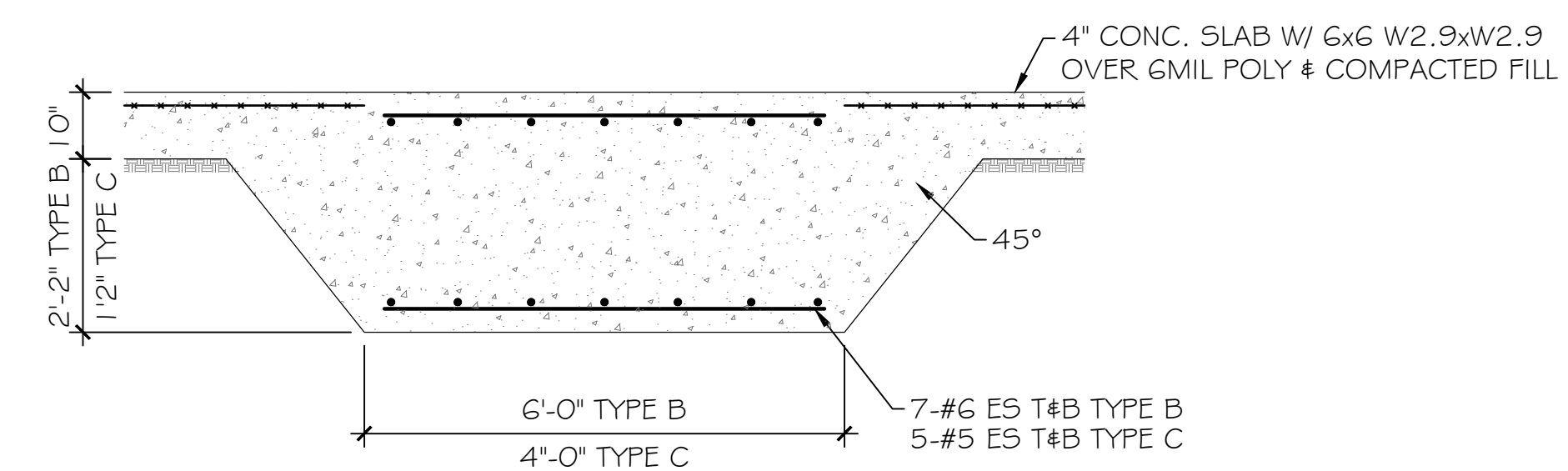
**FOOTING A PLAN**  
SCALE: 1/2"=1'-0"



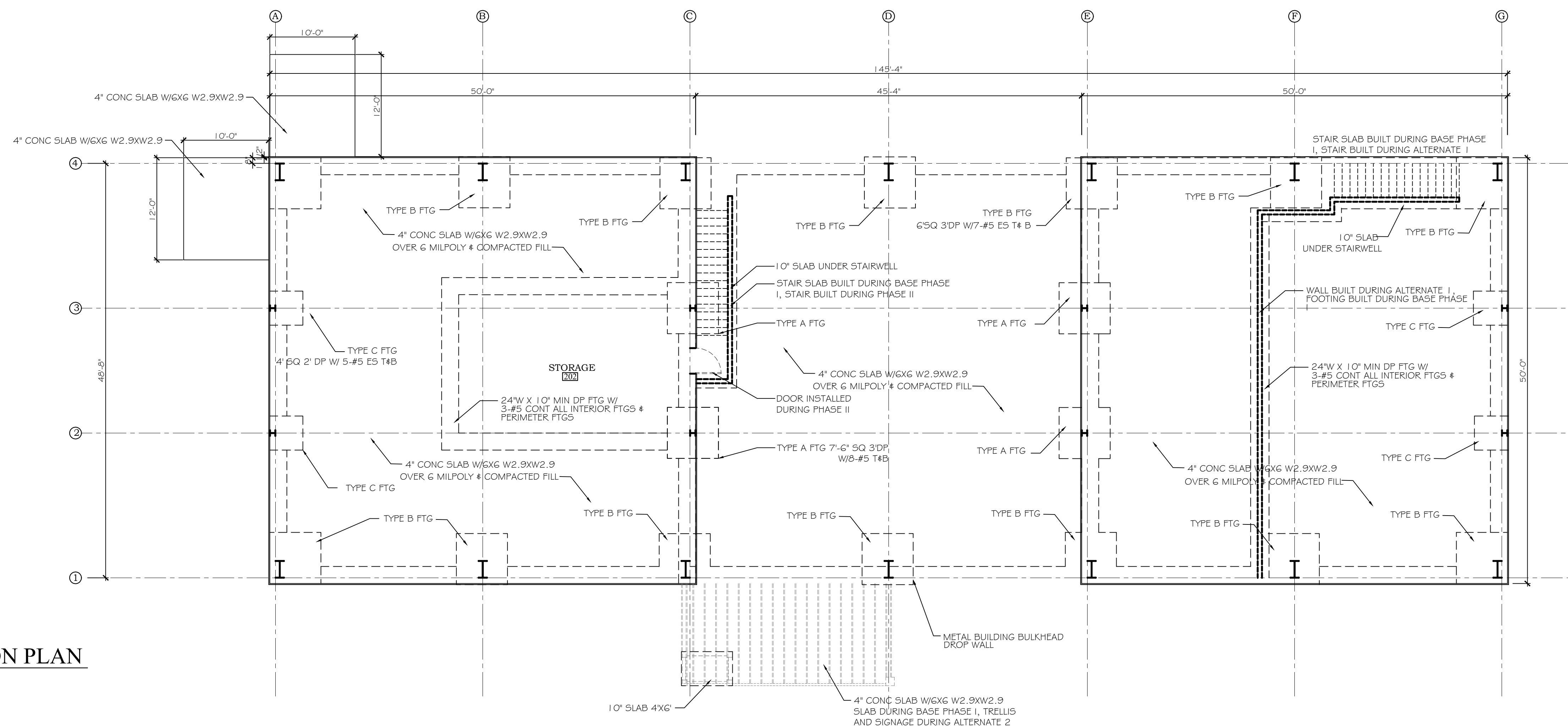
**FOOTING A SECTION**  
SCALE: 1/2"=1'-0"



**FOOTING B&C PLAN**  
SCALE: 1/2"=1'-0"



**FOOTING B&C SECTION**  
SCALE: 1/2"=1'-0"



**FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

- NOTES:**
1. THESE DRAWINGS ARE TO BE USED ONLY FOR BID PURPOSES AND NOT FOR CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR FOUNDATION DESIGN & WILL DEVELOP DRAWINGS FOR CONSTRUCTION CERTIFIED BY A REGISTERED ENGINEER IN THE STATE OF ALABAMA.
  2. FILL SHALL BE COMPACTED IN 6" LOOSE LIFTS TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D-698). FILL TO BE SAND-CLAY WITH P<24. ALL ORGANIC/VEGETATIVE MATERIAL SHALL BE REMOVED PRIOR TO FILL PLACEMENT. SEE NOTE 8.
  3. ALL CONCRETE TO BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING STEEL TO BE ASTM GRADE 60.
  4. CONCRETE PLACEMENT AND MATERIALS TO CONFORM TO ACI 318 LATEST EDITION.
  5. REINFORCING BAR SPLICE LENGTH TO BE MINIMUM 40 BAR DIAMETERS AND WELDED WIRE FABRIC TO TO OVERLAPPED 8" MINIMUM.
  6. SLAB, SHAFTS, GRADE BEAMS TO BE POURED MONOLITHICALLY.
  7. SEE BUILDING MANUFACTURER DRAWINGS FOR ANCHOR BOLT SIZE AND LOCATION & FOR ANCHOR BOLTS AT FRAMED OPENINGS.
  8. REFER TO GEOTECHNICAL REPORT FOR SITE PREPARATION & RECOMMENDATIONS FOR MATERIALS & SUBGRADE PREPARATION. THIS REPORT WAS PREPARED BY GEOCON GEOTECHNICAL DATED JULY 30, 2020. TESTING AS RECOMMENDED IN THIS REPORT WILL BE REQUIRED.

**PHASE I**

JOB NO.:  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

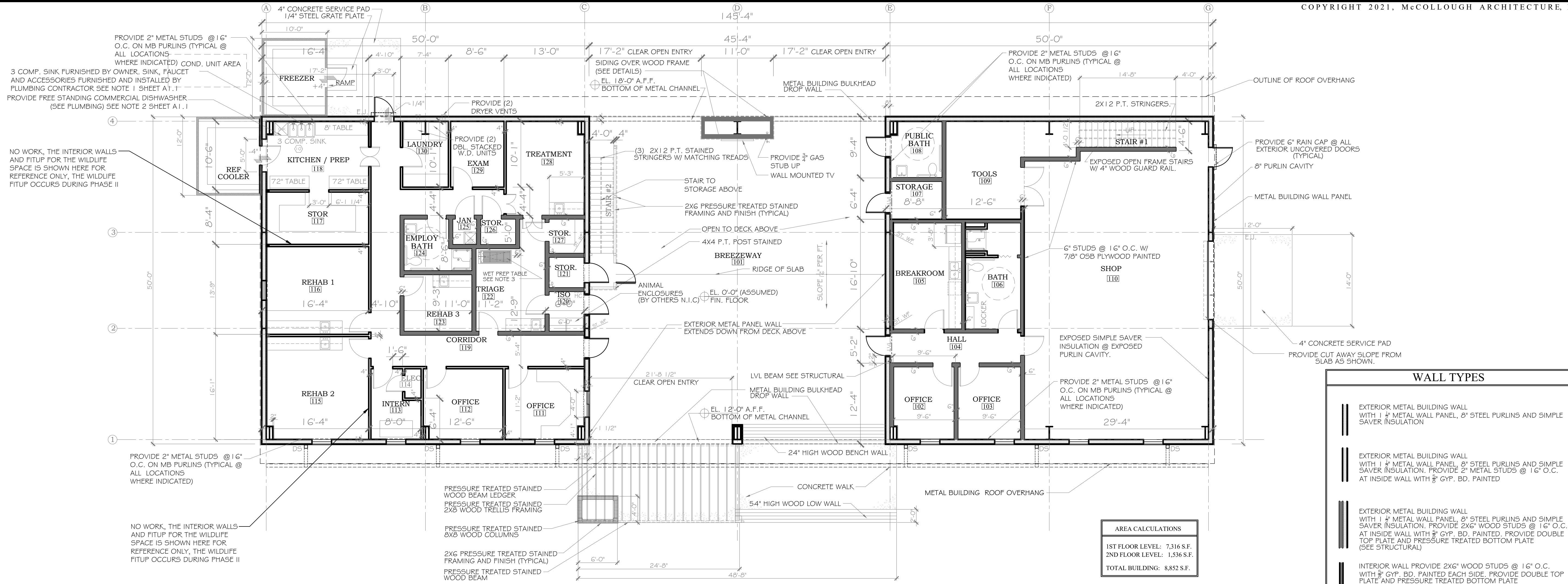
SCALE: 1/8" = 1'-0"

SHEET NO.:

**S1.1**

FOUNDATION PLAN  
& DETAILS



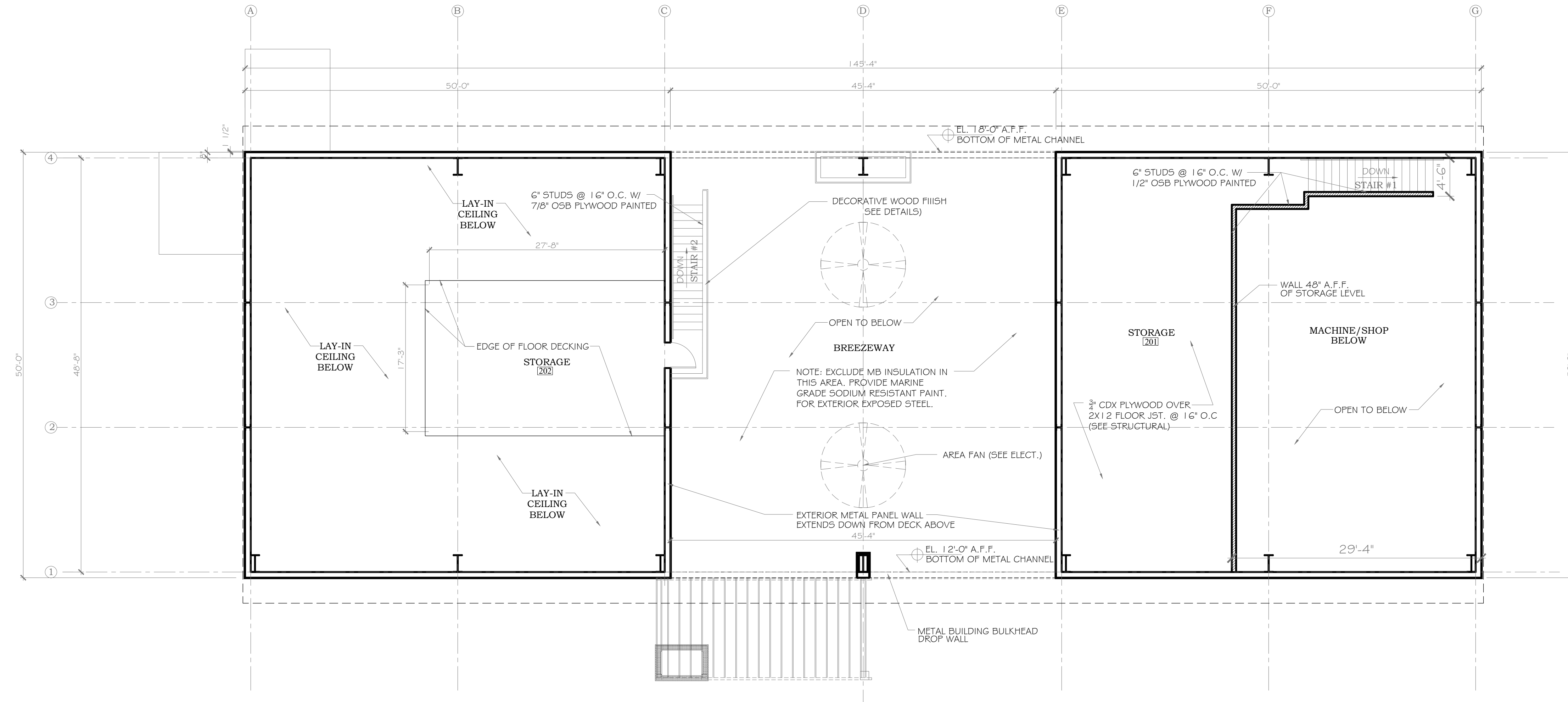


**FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0"

**WALL TYPES**

- EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION
- EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED
- EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2X6" WOOD STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- INTERIOR WALL PROVIDE 2X6" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- INTERIOR WALL PROVIDE 2X4" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- PROVIDE 2" METAL STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED
- WALL 48" A.F.F. OF STORAGE LEVEL  
6" STUDS @ 16" O.C. W/ 7/8" OSB PLYWOOD PAINTED  
PROVIDE 1X6" FIR TOP CAP AND 1X2" FIR CASING

REFERENCE PLAN ONLY



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

PHASE I

NEW BUILDING CONCEPTS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**RA1.1**  
COMPLETED PROJECT  
REFERENCE FOR PHASE I



# ACCESSIBLE NOTES:

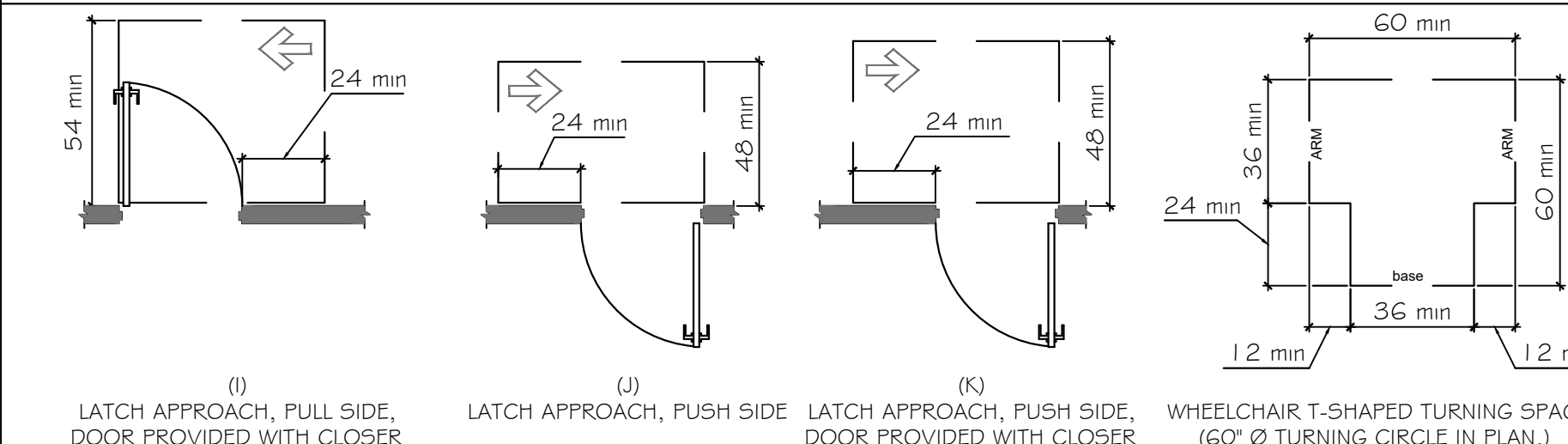
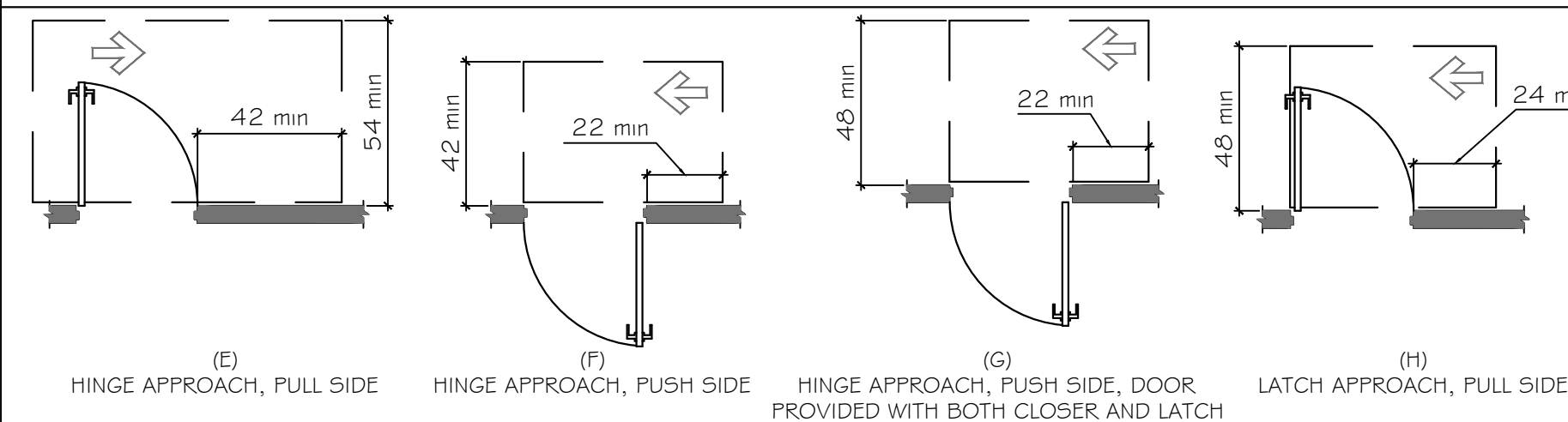
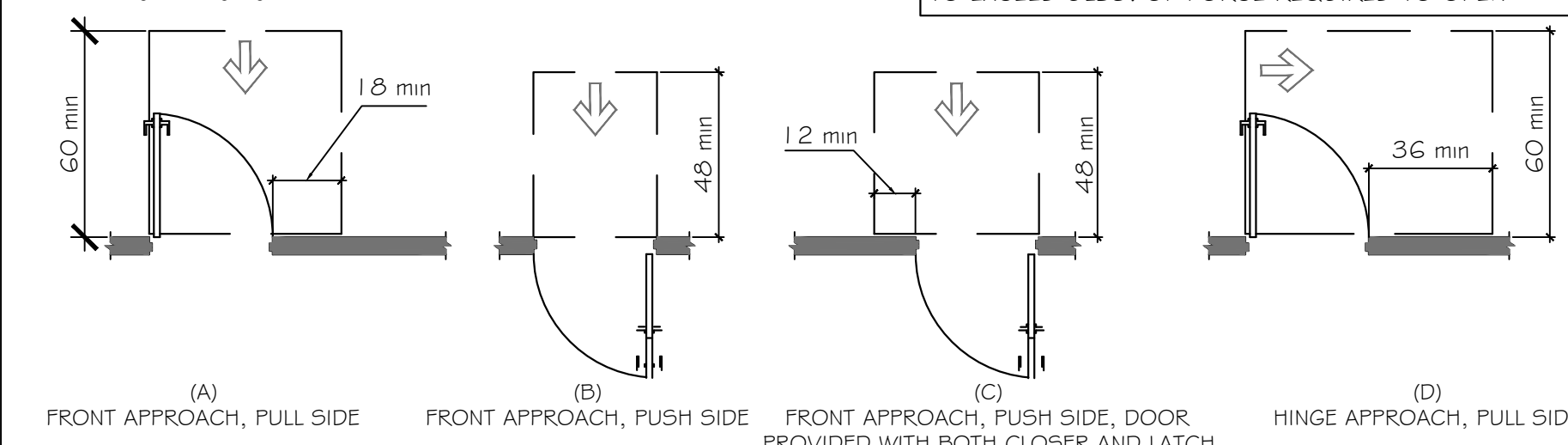
## 1/A1.0 ADA COMPLIANCE DOOR SWINGS AND CLEARANCES

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5# MAXIMUM.

404.2.7 DOOR & GATE HARDWARE. DOOR HARDWARE THAT CAN BE OPERATED WITH A CLOSED FIST OR A LOOSE GRIP ACCOMMODATES THE GREATEST RANGE OF USERS. HARDWARE THAT REQUIRES SIMULTANEOUS HAND AND FINGER MOVEMENTS REQUIRE GREATER DEXTERITY AND COORDINATION, AND IS NOT RECOMMENDED.

DOOR PULLS TO HAVE ACCESSIBLE LEVERS AND NOT TO EXCEED 5LBS. OF FORCE REQUIRED TO OPEN

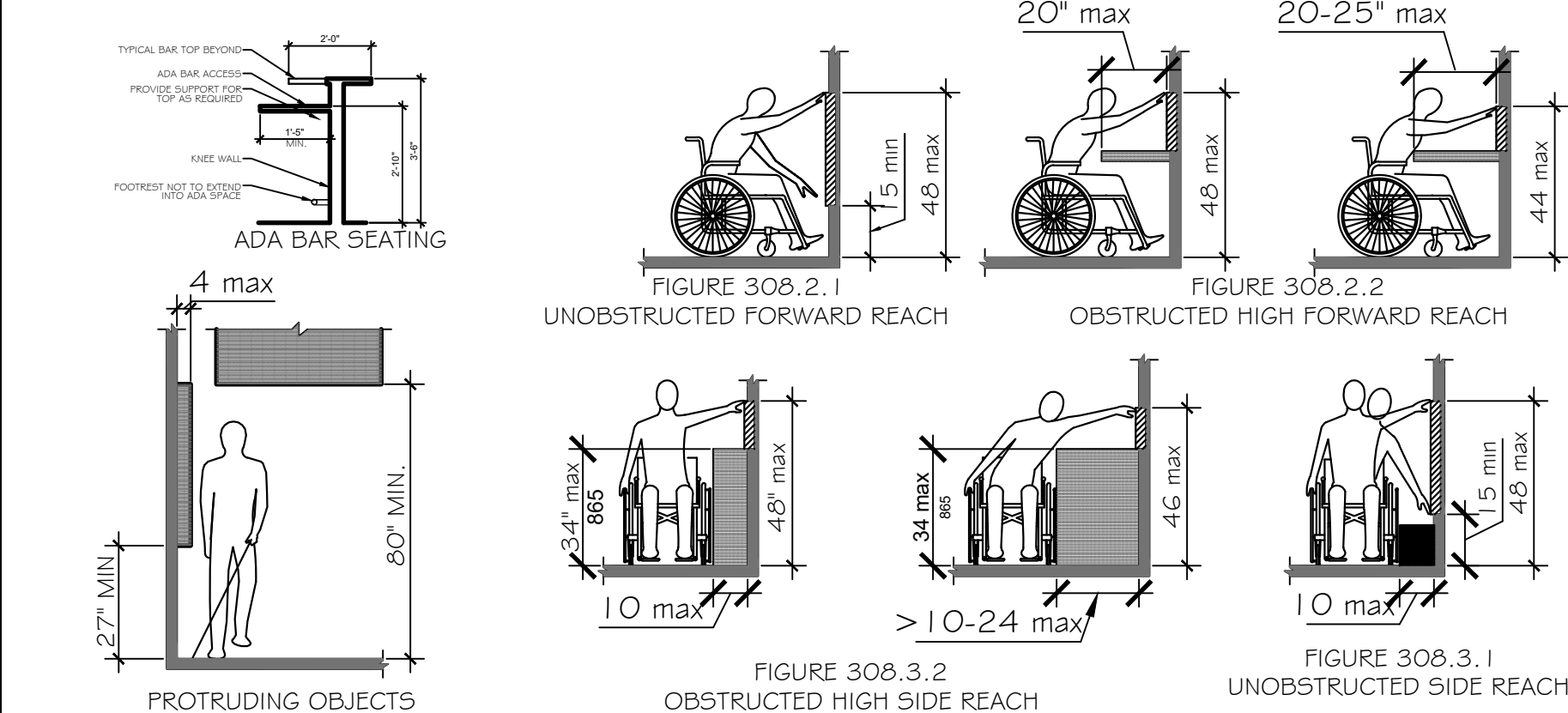
### SEC. 404 : 2010 ADA STANDARDS



## 2/A1.0 REACH / PROTRUDING OBJECTS

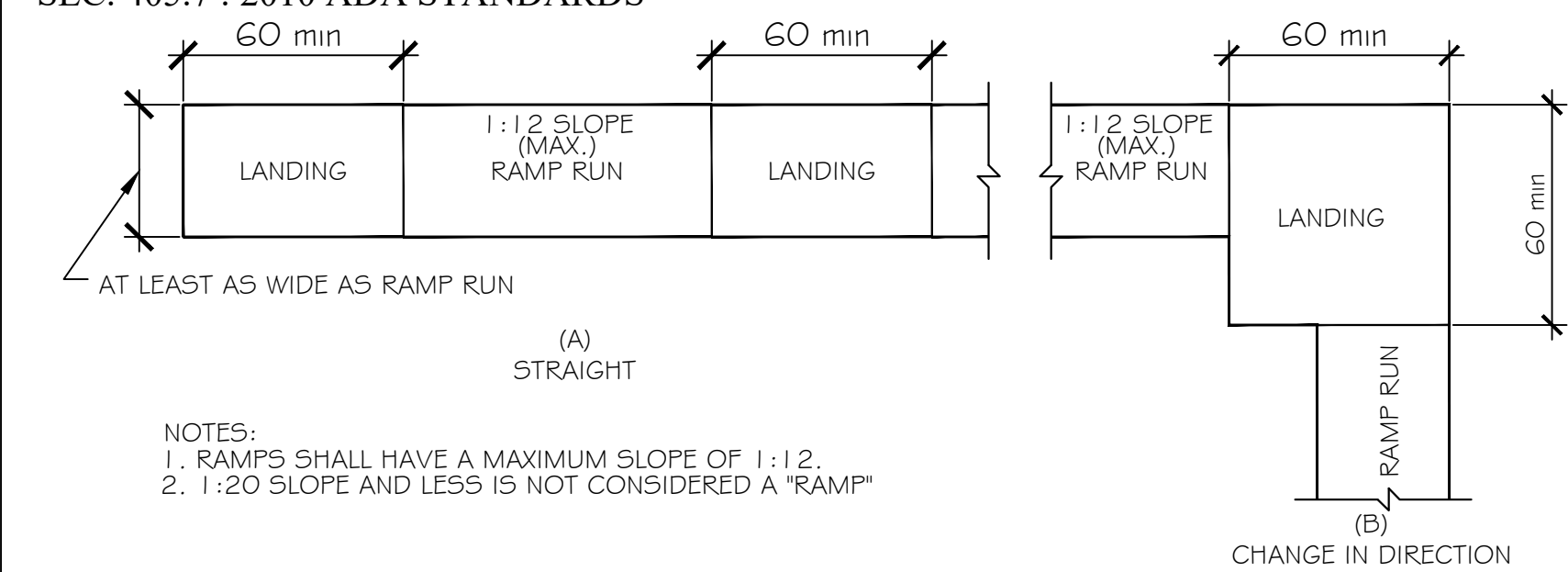
THE FOLLOWING DIAGRAMS SHALL BE TYPICAL FOR ALL ADA COMPLIANT CONDITIONS FOR MOUNTED OBJECTS: (INCLUDING BUT NOT LIMITED TO HAND DRYERS, SOAP DISPENSERS, AND PAPER TOWEL DISPENSERS)

### SEC. 308 : 2010 ADA STANDARDS



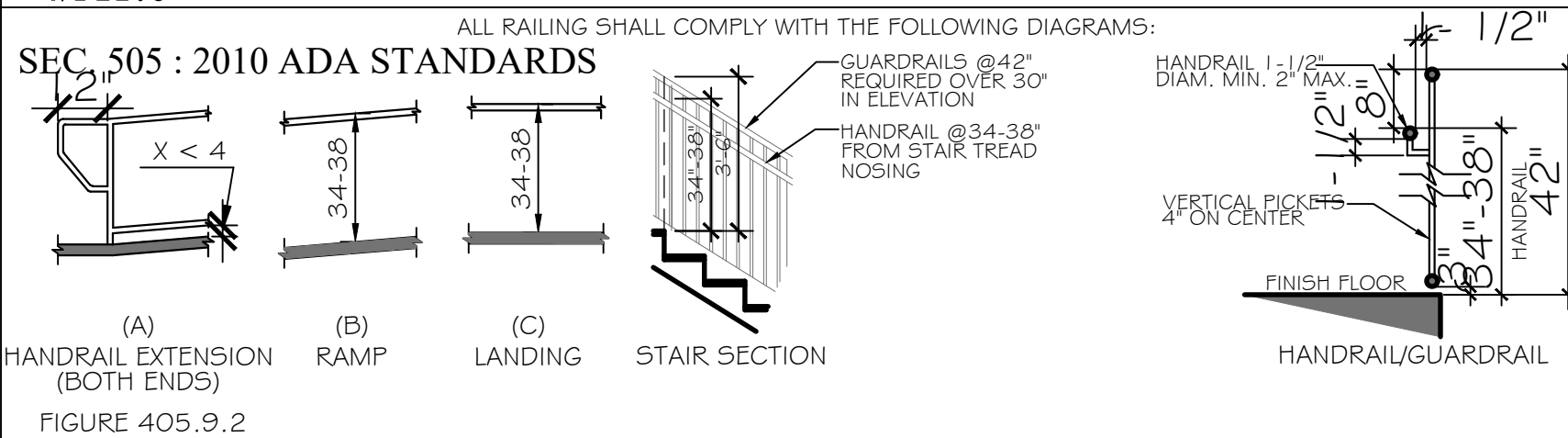
## 3/A1.0 ADA COMPLIANT RAMPS

### SEC. 405.7 : 2010 ADA STANDARDS



## 4/A1.0 RAILINGS

### SEC. 505 : 2010 ADA STANDARDS

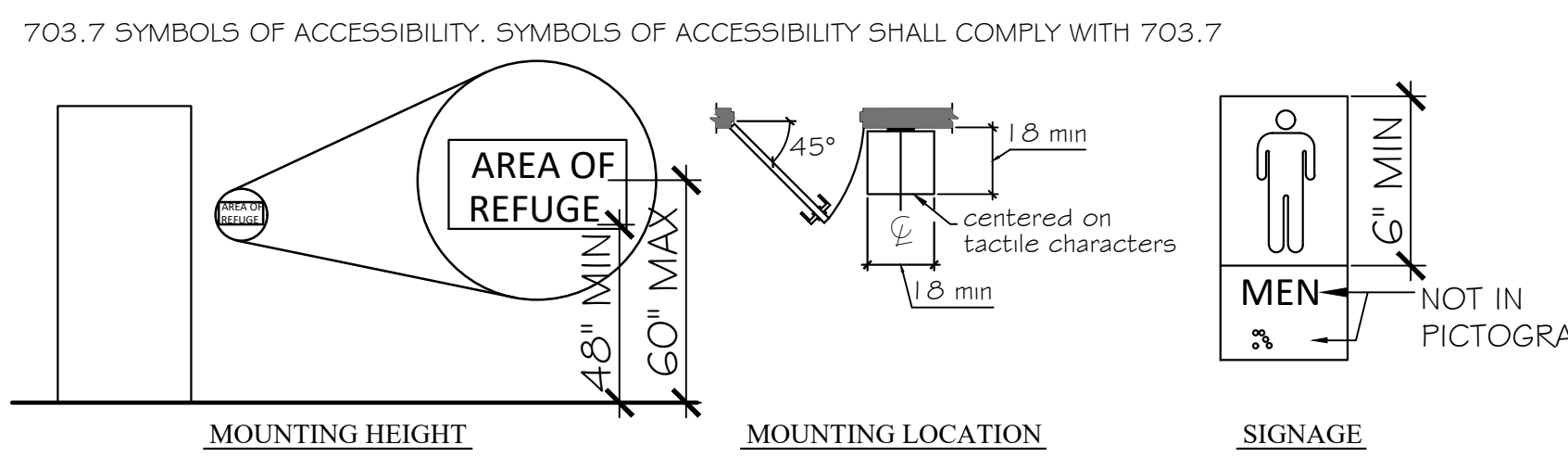


## 5/A1.0 COMMUNICATION ELEMENTS AND FEATURES

### SEC. 703 : 2010 ADA STANDARDS

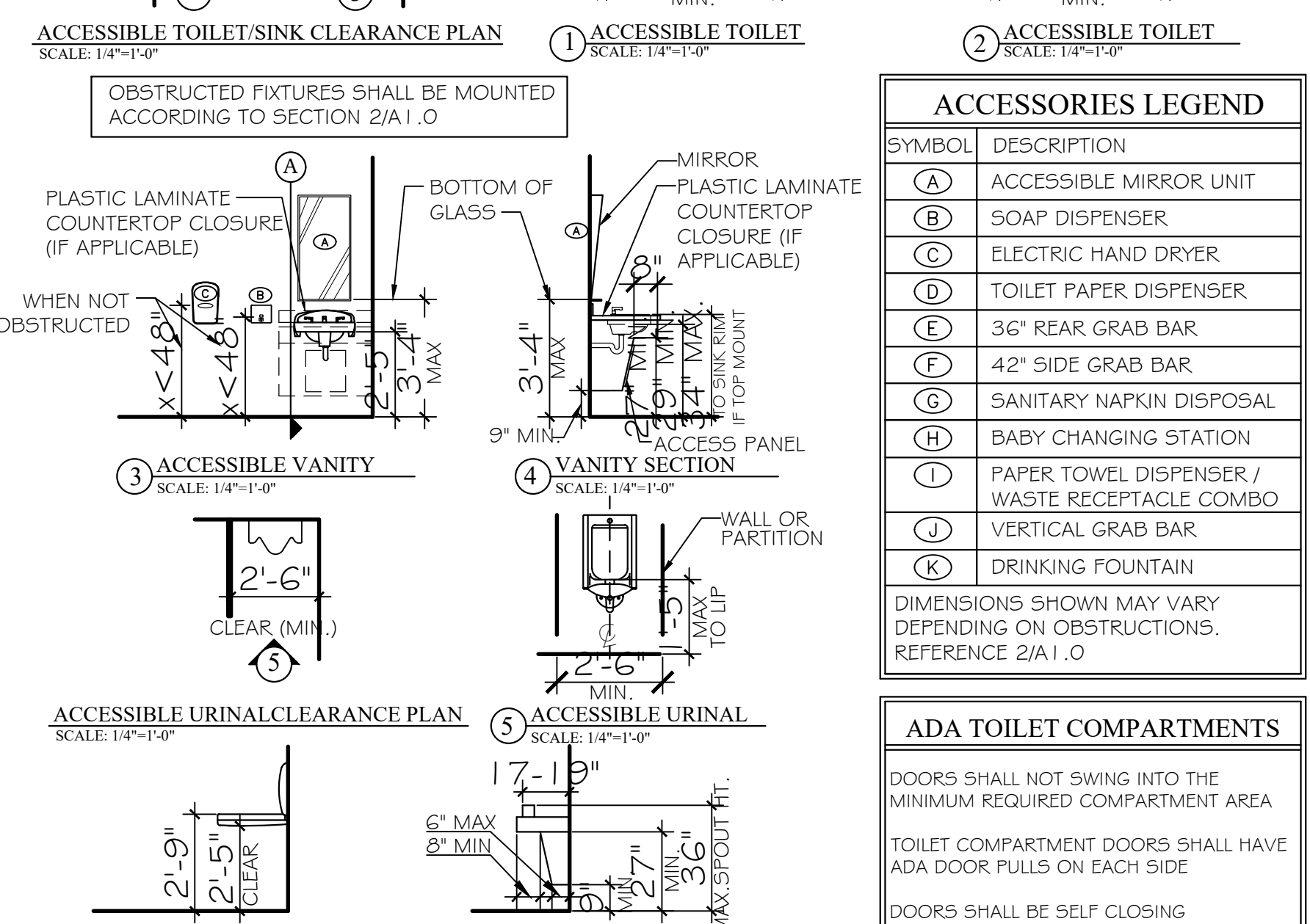
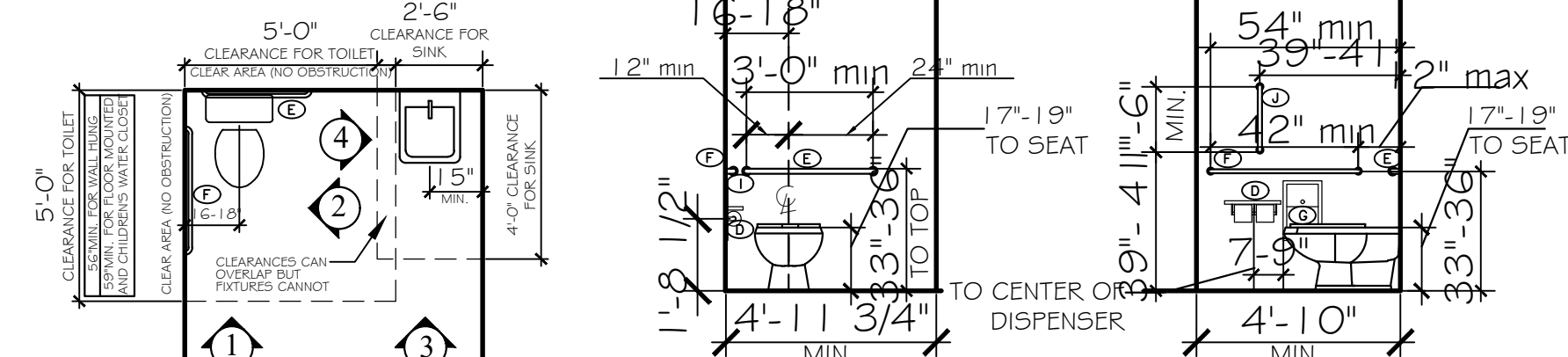
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 1.8 INCHES (45.5 MM) MINIMUM BY 1.8 INCHES (45.5 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7



## 6/A1.0 ADA ACCESSIBLE BATHROOM FIXTURES/ACCESSORIES

### SEC. 604 : 2010 ADA STANDARDS



ACCESSORIES LEGEND	
SYMBOL	DESCRIPTION
(A)	ACCESSIBLE MIRROR UNIT
(B)	SOAP DISPENSER
(C)	ELECTRIC HAND DRYER
(D)	TOILET PAPER DISPENSER
(E)	36" REAR GRAB BAR
(F)	42" SIDE GRAB BAR
(G)	SANITARY NAPKIN DISPOSAL
(H)	BABY CHANGING STATION
(I)	PAPER TOWEL DISPENSER / WASTE RECEPTACLE COMBO
(J)	VERTICAL GRAB BAR
(K)	DRINKING FOUNTAIN

DIMENSIONS SHOWN MAY VARY DEPENDING ON OBSTRUCTIONS. REFERENCE 2/A1.0

ADA TOILET COMPARTMENTS	
DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA	
TOILET COMPARTMENT DOORS SHALL HAVE ADA DOOR PULLS ON EACH SIDE	
DOORS SHALL BE SELF CLOSING	

## ABBREVIATION LEGEND

ABBREV.	TERM
ACC.	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
ASSEM.	ASSEMBLY
B.B.	BEAD BOARD
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
DIM	DIMENSION(S)
DW	DISHWASHER
ELEC.	ELECTRIC / ELECTRICAL
ELEV.	ELEVATOR
EQUIP.	EQUIPMENT
E.P.	EPOXY PAINT
EXT.	EXTERIOR
EWC	ELECTRIC WATER COOLER
FE	FIRE EXTINGUISHER CABINET
FG	FIBERGLASS
FIN.	FINISH / FINISHED
FLR.	FLOOR
FRP	FIBER-REINFORCED PLASTIC
FT.	FOOT / FEET
GFI	GROUND FAULT INTERRUPTOR
GYP.BD.	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR	HOUR
INT.	INTERIOR
JAN.	JANITOR
MAX	MAXIMUM
MECH.	MECHANICAL
MT.	METAL
MICRO.	MICROWAVE
MIN.	MINIMUM
M.R.	MOISTURE RESISTANT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PRE-FAB	PRE FABRICATED
PT.	PAINT / PAINTED
P.T.	PRESSURE TREATED
Q.T.	QUARRY TILE
REF.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
SC.	SOLID CORE
S.F.	SQUARE FOOT / FEET
SHWR.	SHOWER
S.S.	SCORED & STAINED
S/S	STAINLESS STEEL
ST.	STAINED
STOR.	STORAGE
TYP.	TYPICAL
U/C	UNDER COUNTER
VEND.	VENDING MACHINE
V.W.P.	VINYL WOOD PLANK
WD	WOOD
W	WITH
WD	WASHER DRYER
WO	WITH OUT

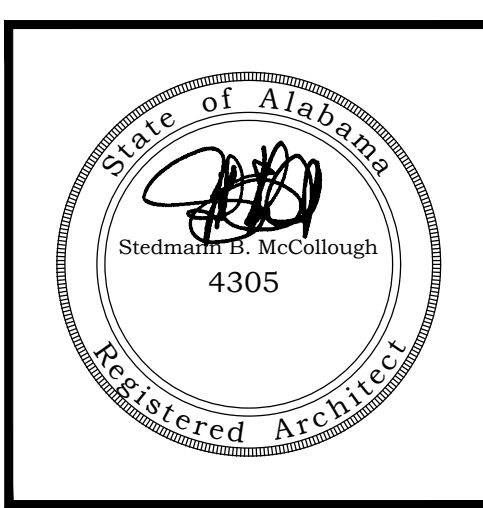
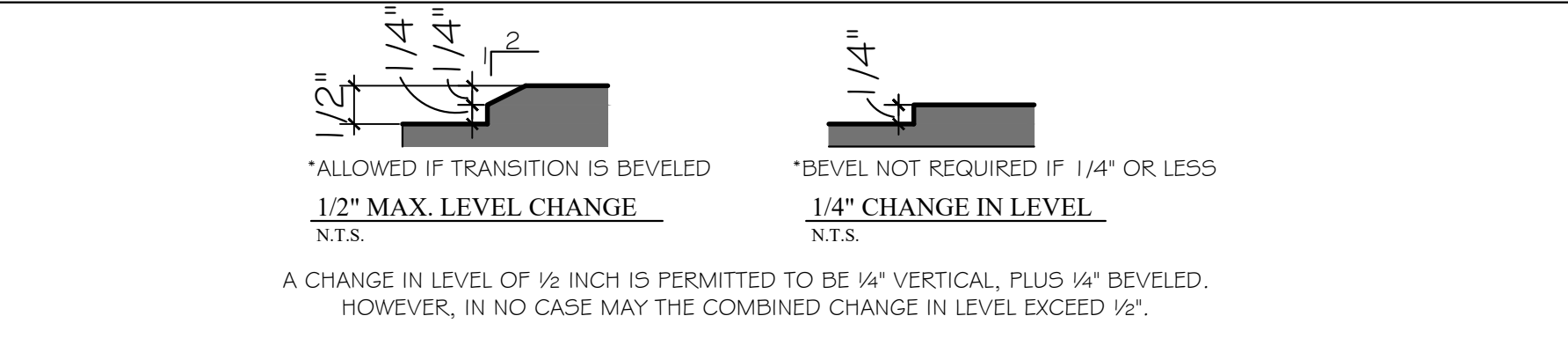
## PLAN MARKER/TAG LEGEND

[30]	ROOM NUMBER
[24]	DOOR NUMBER
(1) ACJ DETAIL NUMBER SHEET NUMBER	INTERIOR ELEVATION
BB A4.2 SECTION IDENTIFICATION SECTION LOCATION SHEET NUMBER	SECTION CUT LOCATION MARKER
A A2.5 DRAWING DESIGNATION DETAIL LOCATION SHEET NUMBER	DETAIL MARKER
WALL TYPE NUMBER INTERSECTS WALL REFERENCED	WALL TYPE MARKER
STOREFRONT TYPE	STOREFRONT TYPE
HEIGHT OF CEILING A.F.F.	ELEVATION MARKER
2 REVISION NUMBER	REVISION MARKER

## GENERAL NOTES

- ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
- THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
- IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
- CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
- DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
- DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION
- PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
- ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
- PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
- NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
- ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
- THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY W/ OSHA REQUIREMENTS.
- ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL PLUMBING, AND MECHANICAL.

## 7/A1.0 THRESHOLD CONDITIONS SEC. 303 : 2010 ADA STANDARDS



PHASE I DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

SCALE: 1/4"=1'-0"  
SHEET NO.:  
**A1.0**

ADA STADARDS

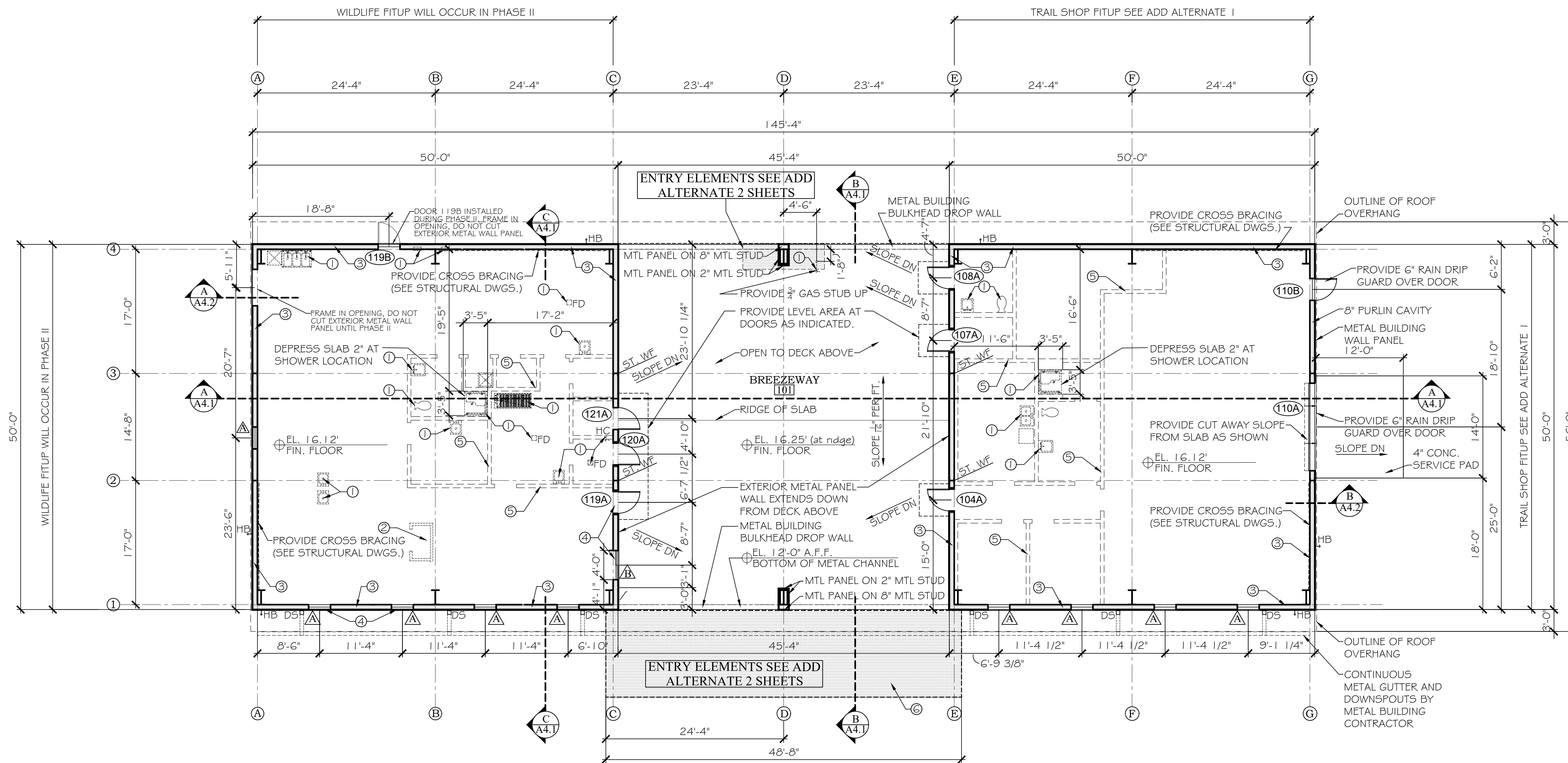




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36547-6310  
PHONE: 251-968-7222



**PHASE I DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA



**PHASE I FLOOR PLAN**  
SCALE: 1/8"=1'-0"  
(SECOND FLOOR PHASE I CONSISTS OF METAL BUILDING SHELL ONLY)

<b>AREA CALCULATIONS</b>
1ST FLOOR LEVEL: 7,316 S.F.

<b>WALL TYPES</b>
EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL 8" STEEL PURLINS AND SIMPLE SAVER INSULATION WHERE SCHEDULED

<b>ADD ALTERNATE 1</b>
TRAIL SHOP FIT UP REFER TO ADD ALTERNATE 1 SHEETS
<b>ADD ALTERNATE 2</b>
FRONT ENTRY TREATMENT REFER TO ADD ALTERNATE 2 SHEETS

<b>LEGEND</b>
ALTERNATE 2 WORK FUTURE WALLS

- |   |
|---|
| <b>PHASE I NOTES</b>  |
| 1 PLUMBING CONTRACTOR WILL COORDINATE ALL STUB UP LOCATIONS AS REQUIRED.<br>2 ELECTRICAL CONTRACTOR WILL COORDINATE ALL CONDUIT STUB UP LOCATIONS AS REQUIRED.<br>3 METAL BUILDING CONTRACTOR WILL PROVIDE SIMPLE SAVER INSULATION @ ENTIRE PERIMETER PURLIN CAVITY AND ROOF PURLINS EXCEPT WHERE OMITTED AT BREEZEWAY AREA.<br>4 METAL BUILDING CONTRACTOR SHALL VERIFY AND PROVIDE ALL DOOR AND WINDOW ROUGH OPENINGS AS REQUIRED.<br>5 PROVIDE THICKENED SLAB AT ALL LOAD BEARING WALLS AS REQUIRED. REFER TO STRUCTURAL FOUNDATION PLAN FOR REQUIREMENTS.<br>6 COORDINATE AS REQUIRED ALL PHASE I CONDITIONS AND PREP AS REQUIRED.<br>7 REFER TO SHEET A1.0 FOR THRESHOLD CONDITIONS. DO NOT EXCEED 1/2" VERTICAL RISE. |

JOB NO.:	21-05
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.06.01
REVISION:	

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

SHEET NO.:

**A1.1**

PHASE I FLOOR PLANS

**PHASE I**

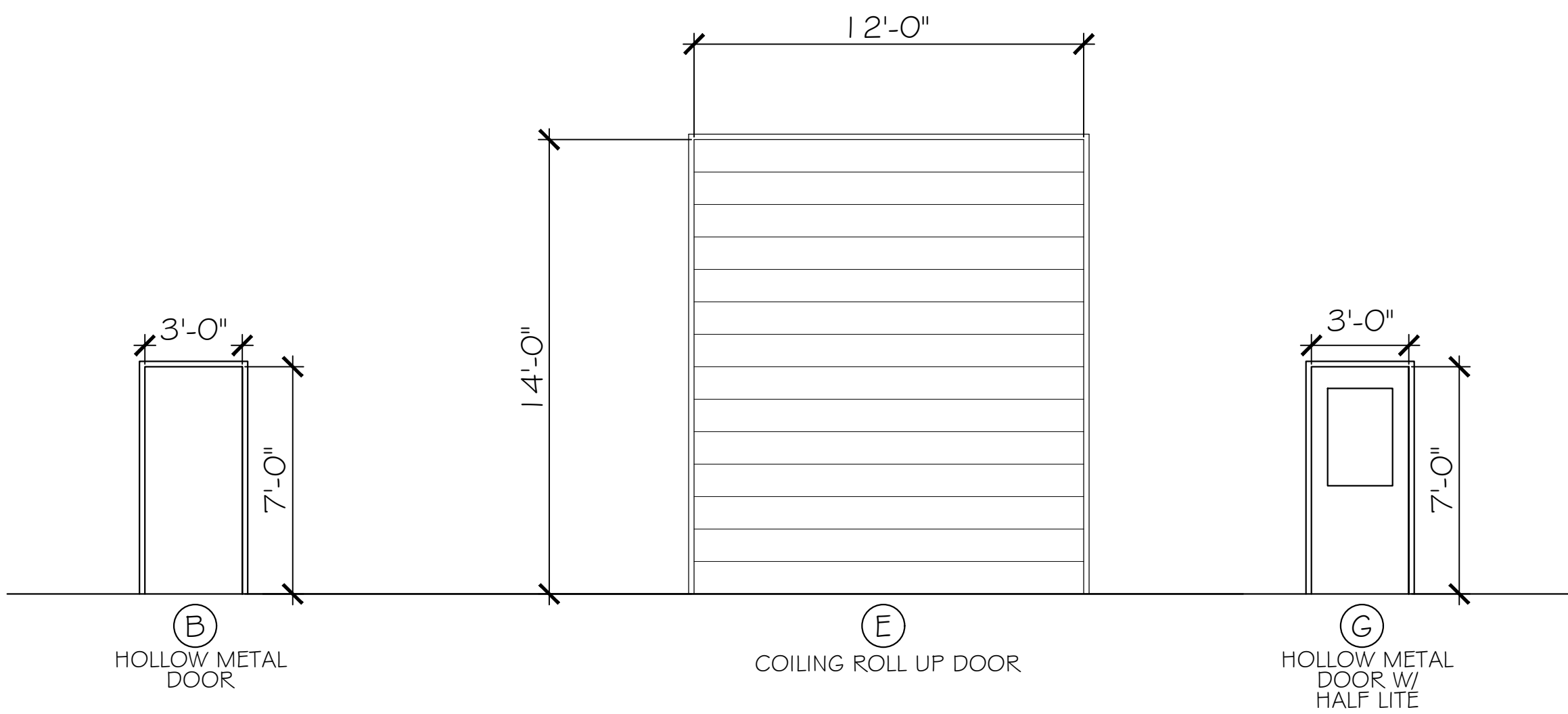




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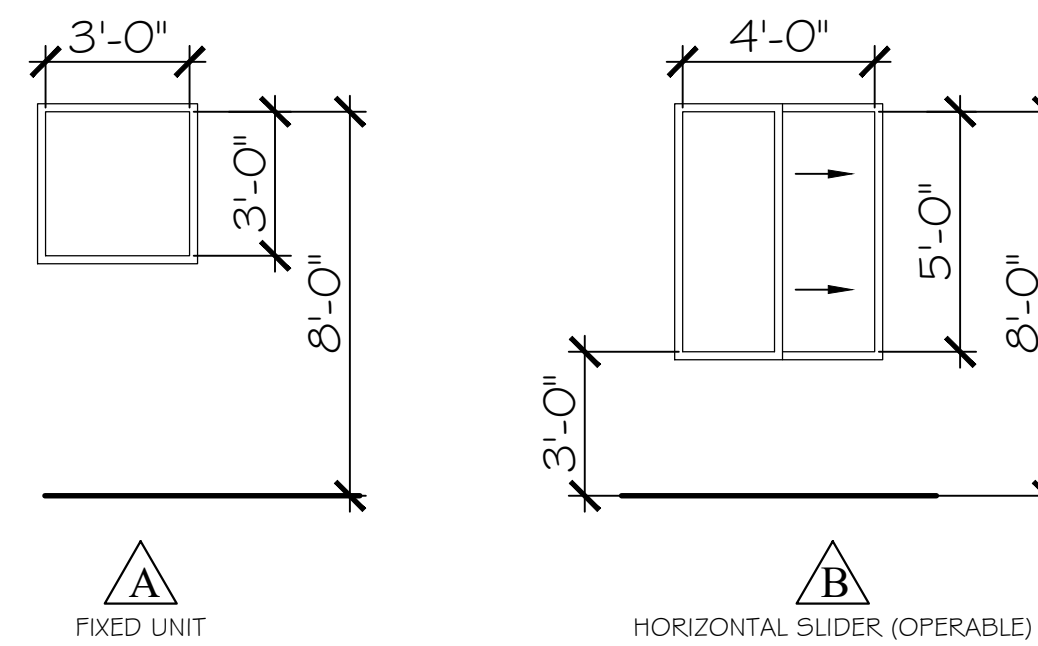


DOOR SCHEDULE											
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR LOCATION	DOOR FINISH	FRAME TYPE	FRAME FINISH	RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
104A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	
107A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	
108A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	CLOSER BY DOOR MANUF.
110A	12'-0" X 14'-0"	E	METAL	EXTERIOR	-	-	-	-	-	-	COILING ROLL UP DOOR/ FINISHES BY MANF.
110B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	
119A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	HOLLOW METAL DOOR W/ HALF LITE
119B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	FRAME IN ONLY, DOOR INSTALL DURING PHASE II, LEAVE EXTERIOR METAL WALL PANEL INTACT
120A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	
121A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	
202A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	FRAME IN ONLY, DOOR INSTALL DURING PHASE II, LEAVE EXTERIOR METAL WALL PANEL INTACT



**DOOR FRAME / TYPES**

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



**WINDOW/ TYPES**

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

ALL WINDOW UNITS SHALL BE ALUMINUM STOREFRONT AND LARGE MISSILE IMPACT RESISTANT

ROOM FINISH SCHEDULE							
ROOM NAME	FLOOR		WALLS		CEILING		REMARKS
	FLOORS	BASE	MATERIALS	FINISH	MATERIAL	FINISH	
101 BREEZEWAY	SEALED CONCRETE	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	
102 OFFICE							
103 OFFICE							
104 HALL							
105 BREAKROOM							
106 BATH							
107 STORAGE							
108 BATH							
109 TOOLS							
110 SHOP							
111 OFFICE							
112 OFFICE							
113 INTERN							
114 ELECTRICAL							
115 REHAB #2							
116 REHAB #1							
117 STORAGE							
118 KITCHEN / PREP.							
119 CORRIDOR							
120 ISOLATION							
121 STORAGE							
122 TRIAGE							
123 REHAB #3							
124 EMPLOYEE BATH							
125 JANITOR							
126 STORAGE							
127 STORAGE							
128 TREATMENT							
129 LAB							
130 LAUNDRY							
201 STORAGE	NONE						
202 STORAGE	NONE						

PHASE 1 DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

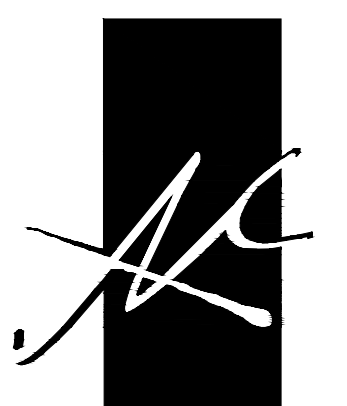
SHEET NO.:

**A2.1**

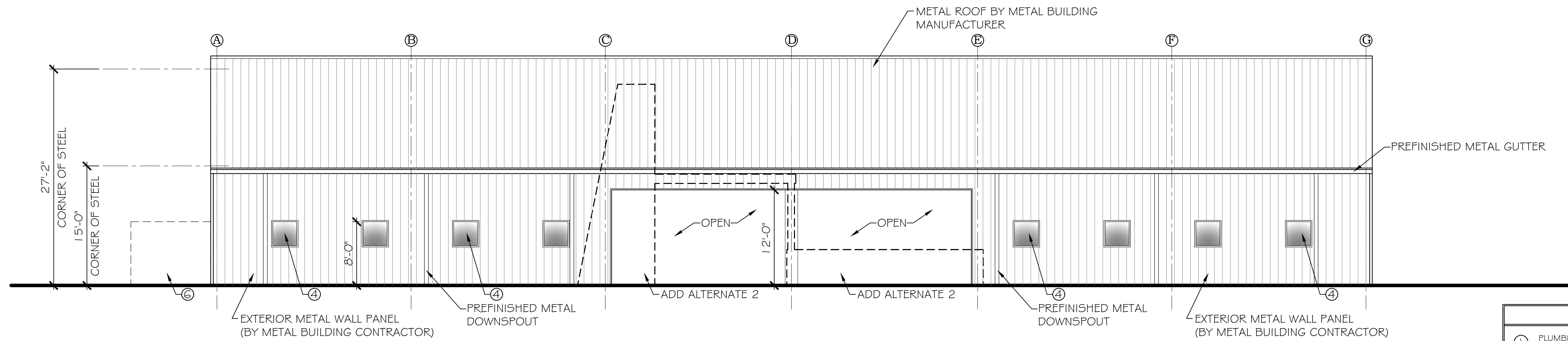
SCHEDULES AND DETAILS  
PHASE I

PHASE I



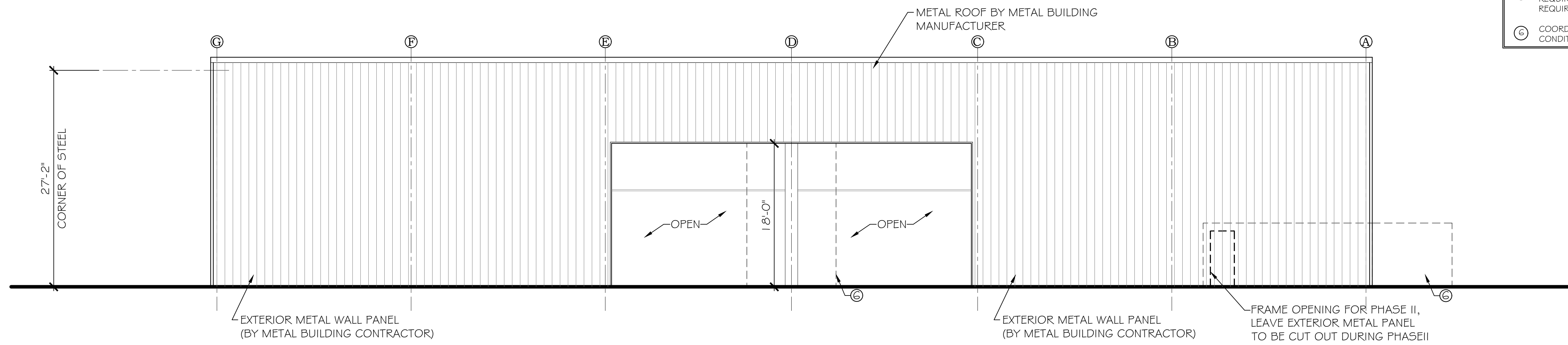


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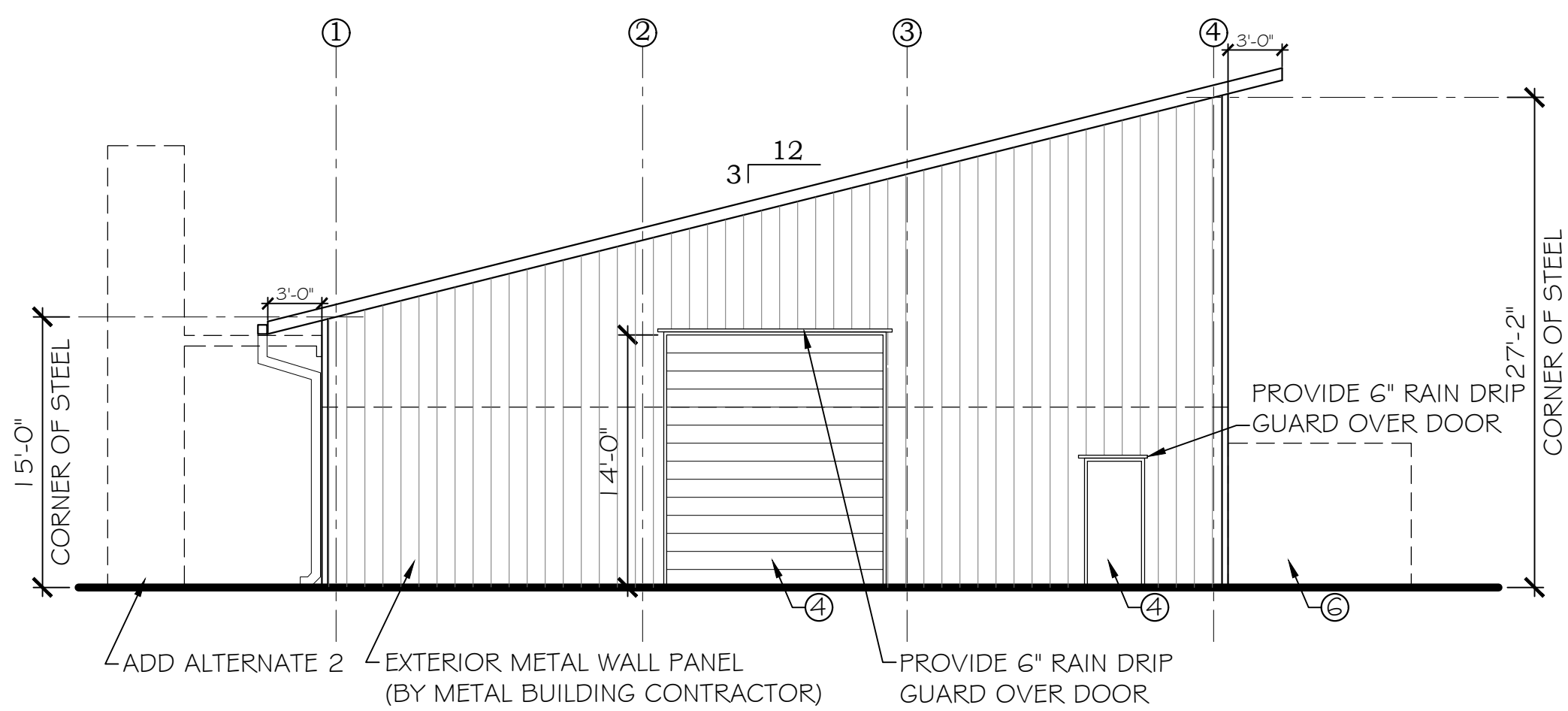


**FRONT ELEVATION**  
SCALE: 1/8"=1'-0"

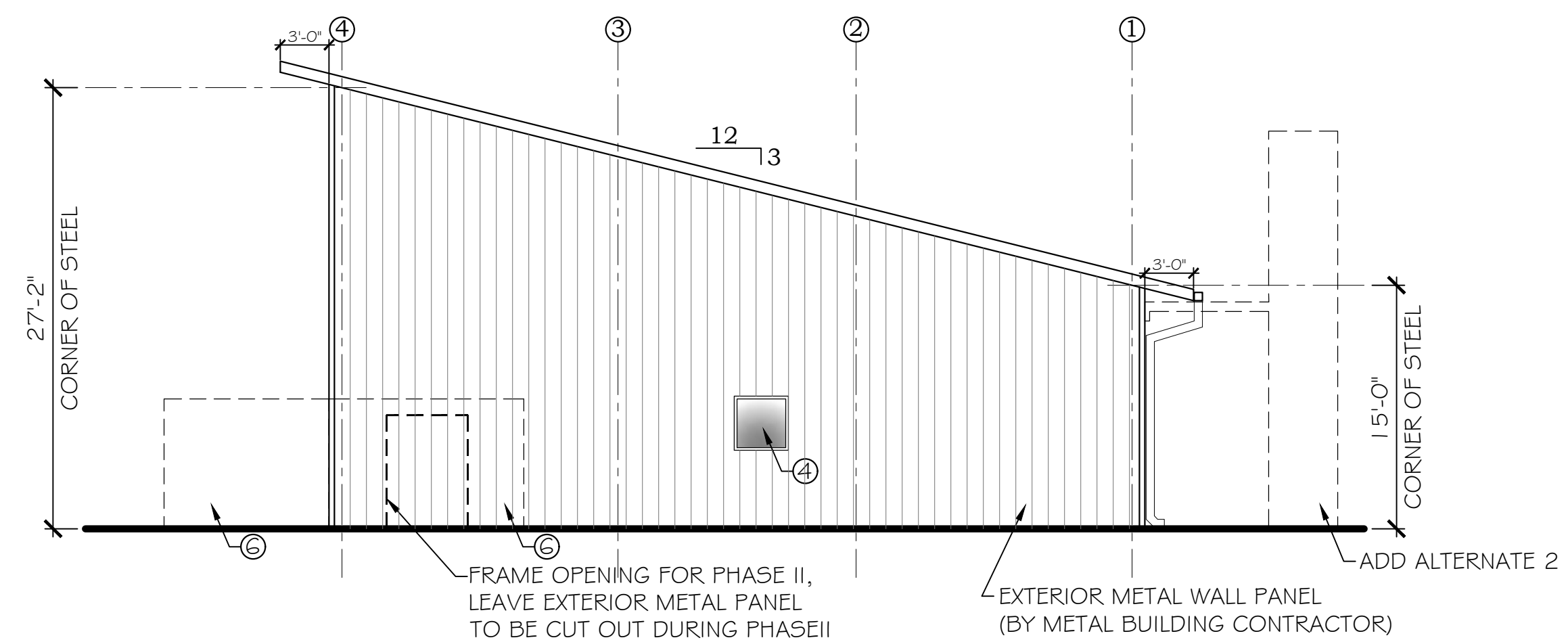
- PHASE I NOTES**
- ① PLUMBING CONTRACTOR WILL COORDINATE ALL STUB UP LOCATIONS AS REQUIRED.
  - ② ELECTRICAL CONTRACTOR WILL COORDINATE ALL CONDUIT STUB UP LOCATIONS AS REQUIRED.
  - ③ METAL BUILDING CONTRACTOR WILL PROVIDE SIMPLE SAVER INSULATION @ ENTIRE PERIMETER FURLIN CAVITY AND ROOF FURLING EXCEPT WHERE OMITTED AT BREEZEWAY AREA.
  - ④ METAL BUILDING CONTRACTOR SHALL VERIFY AND PROVIDE ALL DOOR AND WINDOW ROUGH OPENINGS AS REQUIRED.
  - ⑤ PROVIDE THICKENED SLAB AT ALL LOAD BEARING WALLS AS REQUIRED. REFER TO STRUCTURAL FOUNDATION PLAN FOR REQUIREMENTS.
  - ⑥ COORDINATE AS REQUIRED ALL PHASE I ADD ALT. AND PHASE II CONDITIONS AND PREP AS REQUIRED.



**REAR ELEVATION**  
SCALE: 1/8"=1'-0"



**LEFT SIDE ELEVATION**  
SCALE: 1/8"=1'-0"



**RIGHT SIDE ELEVATION**  
SCALE: 1/8"=1'-0"

**PHASE I DRAWINGS FOR**  
**ORANGE BEACH**  
**TRAIL SHOP / WILDLIFE CENTER**  
**ORANGE BEACH**  
**ALABAMA**

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

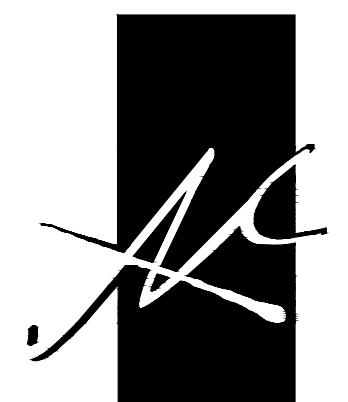
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**A3.1**

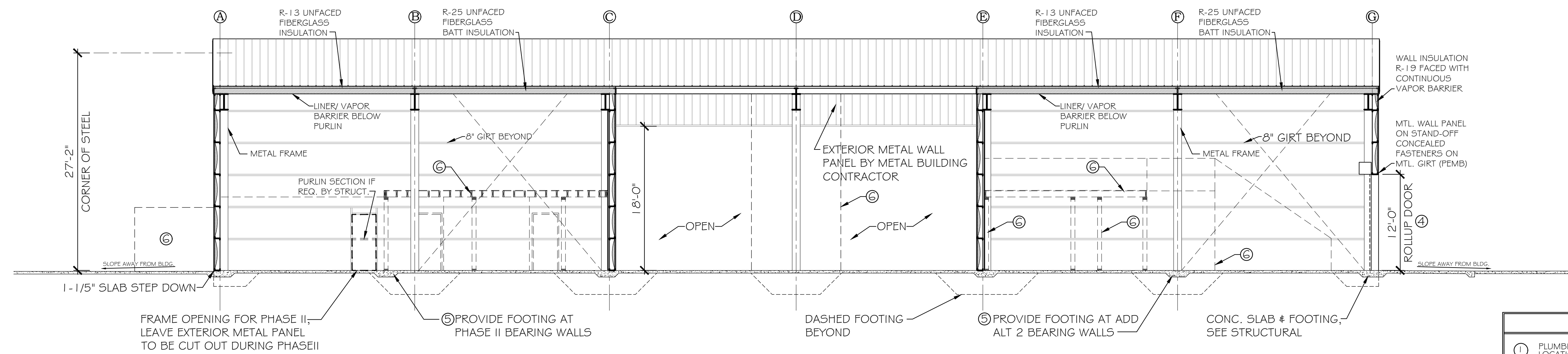
PHASE I  
EXTERIOR ELEVATIONS

**PHASE I**



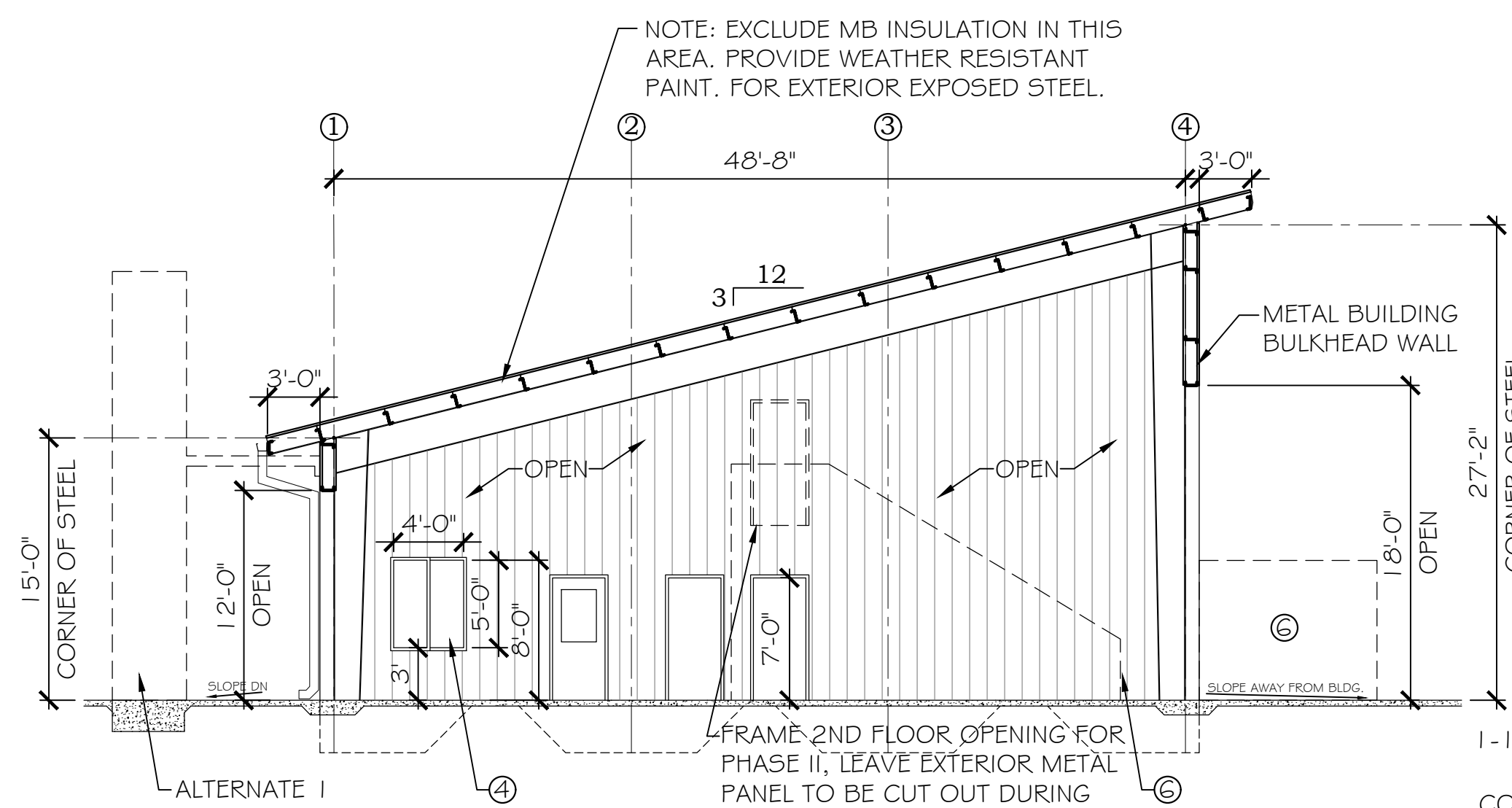


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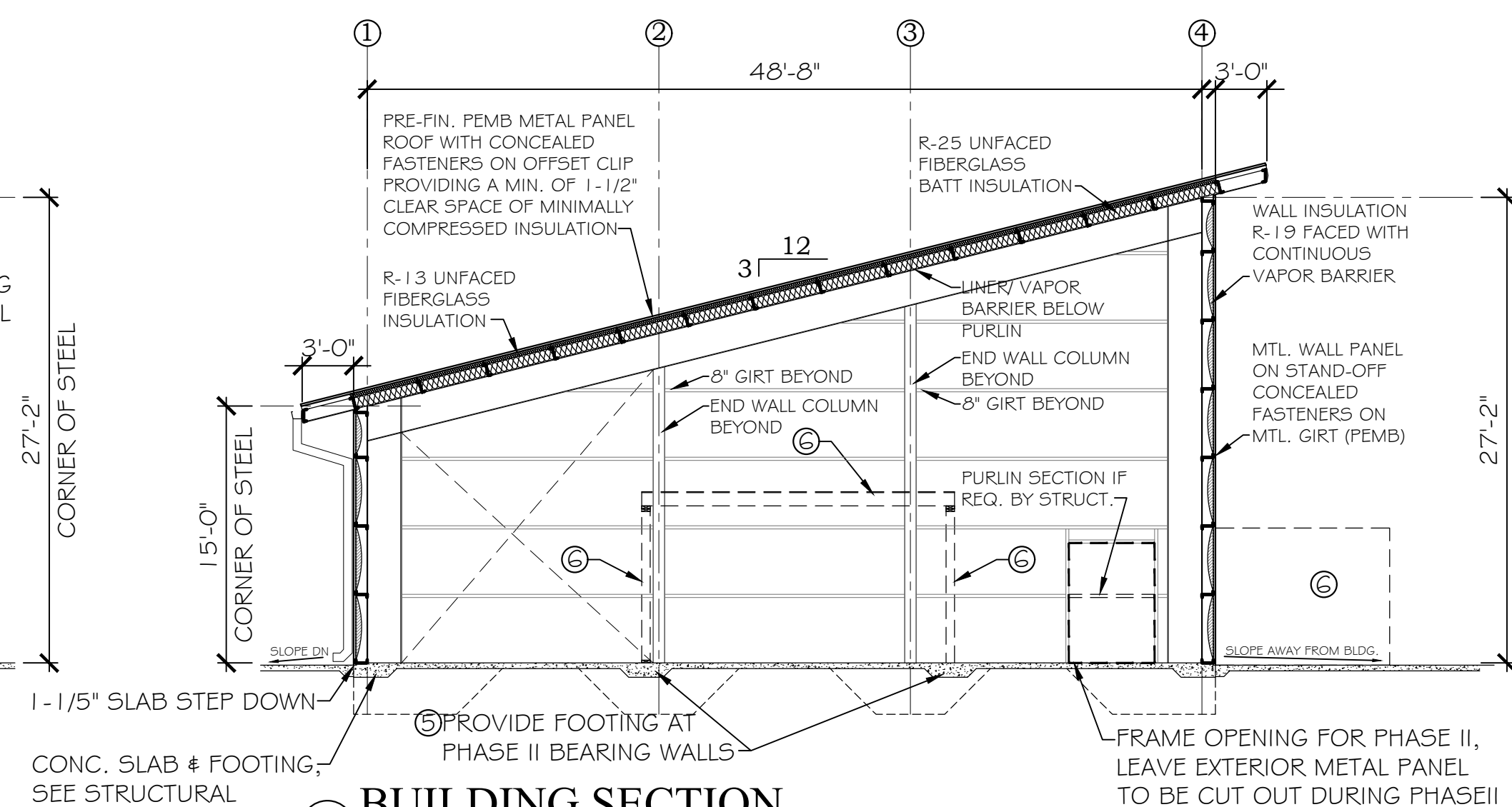


**A BUILDING SECTION**  
SCALE: 1/8"=1'-0"

- PHASE I NOTES**
- ① PLUMBING CONTRACTOR WILL COORDINATE ALL STUB UP LOCATIONS AS REQUIRED.
  - ② ELECTRICAL CONTRACTOR WILL COORDINATE ALL CONDUIT STUB UP LOCATIONS AS REQUIRED.
  - ③ METAL BUILDING CONTRACTOR WILL PROVIDE SIMPLE SAVER INSULATION @ ENTIRE PERIMETER PURLIN CAVITY AND ROOF PURLINS EXCEPT WHERE OMITTED AT BREEZEWAY AREA.
  - ④ METAL BUILDING CONTRACTOR SHALL VERIFY AND PROVIDE ALL DOOR AND WINDOW ROUGH OPENINGS AS REQUIRED.
  - ⑤ PROVIDE THICKENED SLAB AT ALL LOAD BEARING WALLS AS REQUIRED. REFER TO STRUCTURAL FOUNDATION PLAN FOR REQUIREMENTS.
  - ⑥ COORDINATE AS REQUIRED ALL PHASE I ADD ALT. AND PHASE II CONDITIONS AND PREP AS REQUIRED.



**B BUILDING SECTION**  
SCALE: 1/8"=1'-0"



**C BUILDING SECTION**  
SCALE: 1/8"=1'-0"

PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**A4.1**

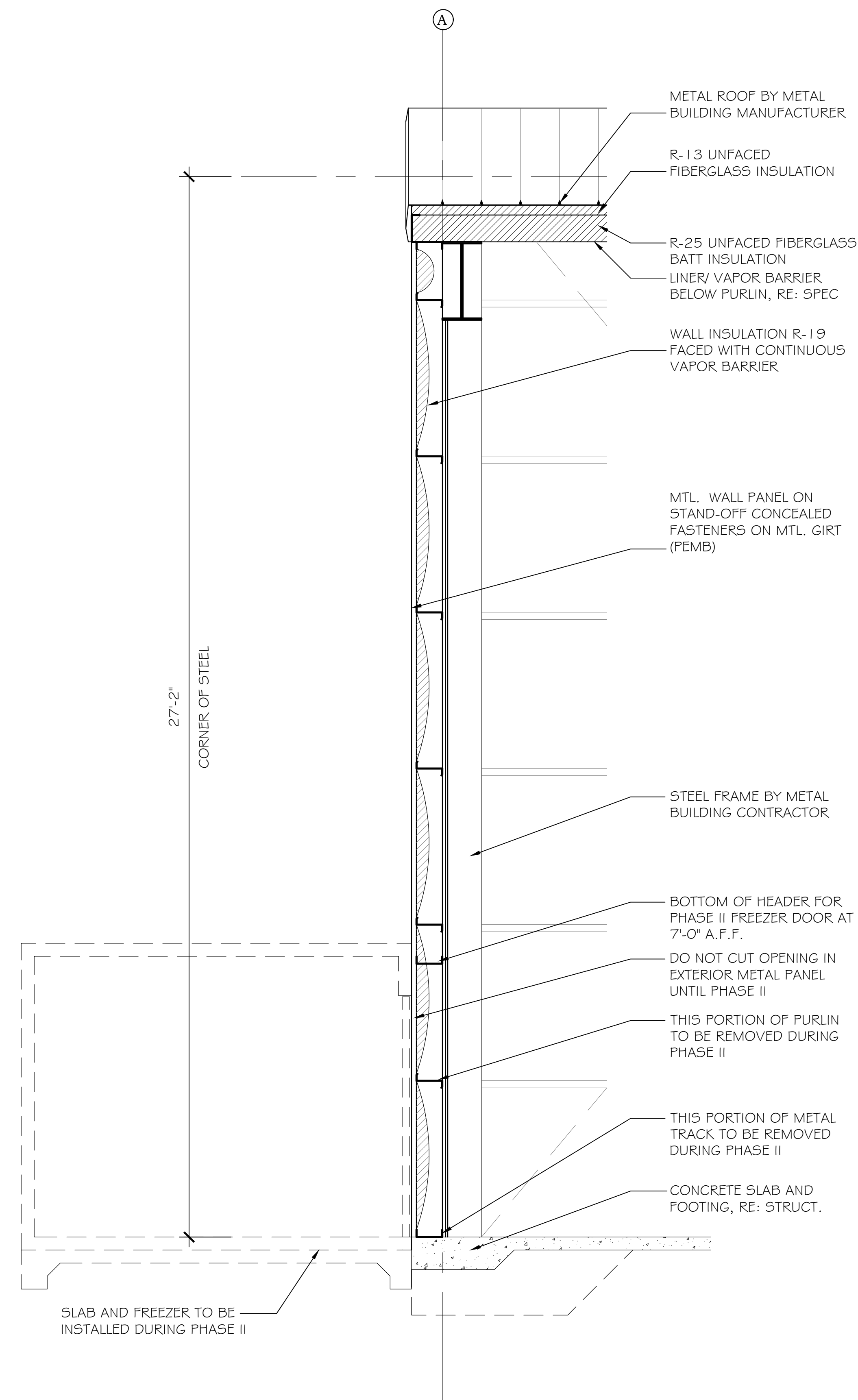
PHASE I  
BUILDING SECTIONS

PHASE I

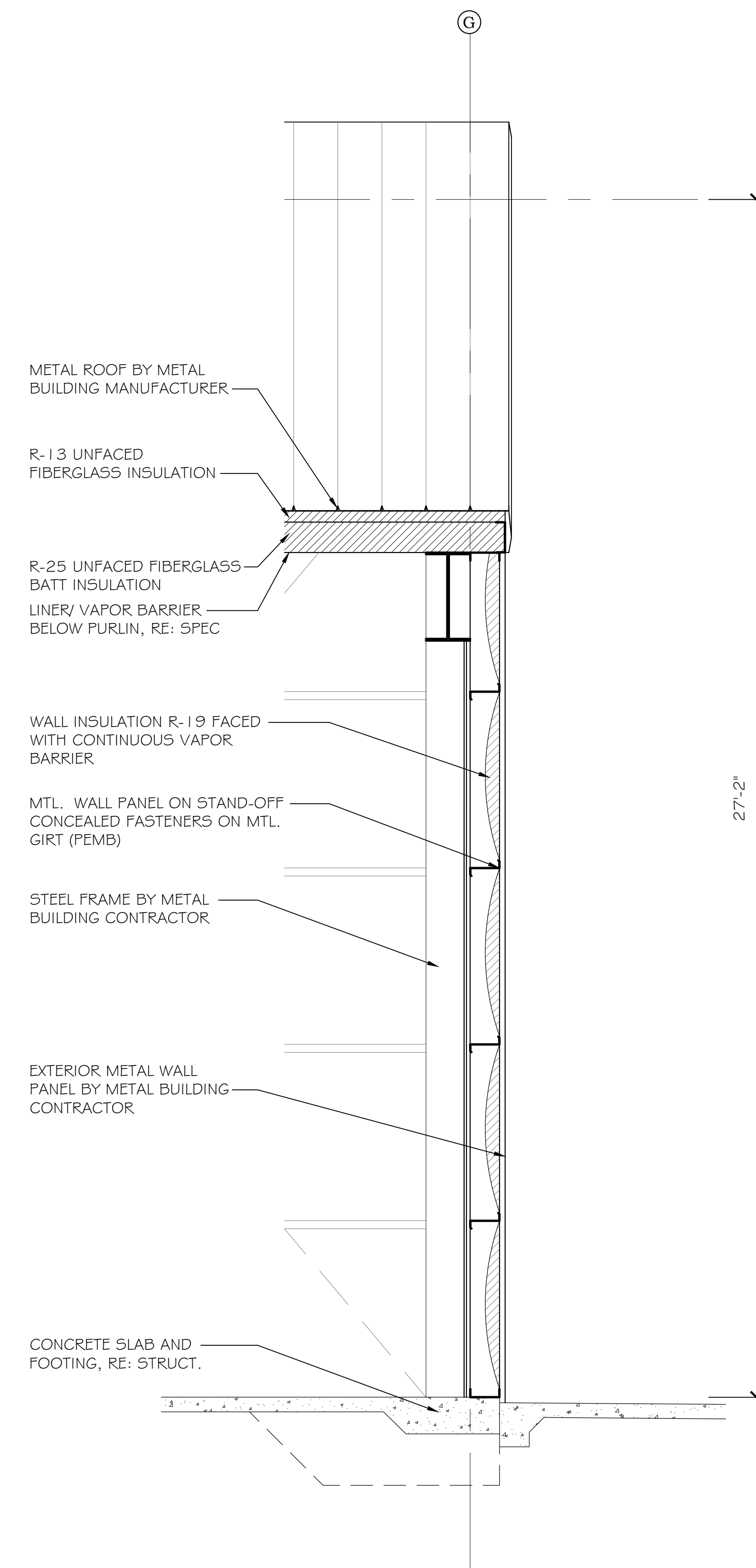




PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA



**A** BUILDING SECTION  
A4.2 SCALE 1/2"=1'-0"



**B** BUILDING SECTION  
A4.2 SCALE 1/2"=1'-0"

PHASE I

JOB NO.:	21-05
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.06.01
REVISION:	

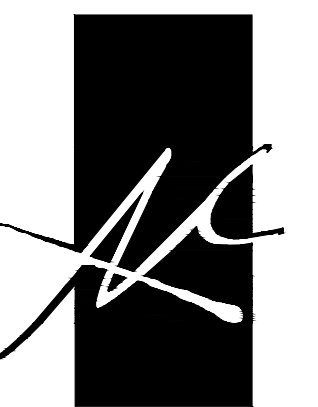
SCALE: 1/2" = 1'-0"

SHEET NO.:

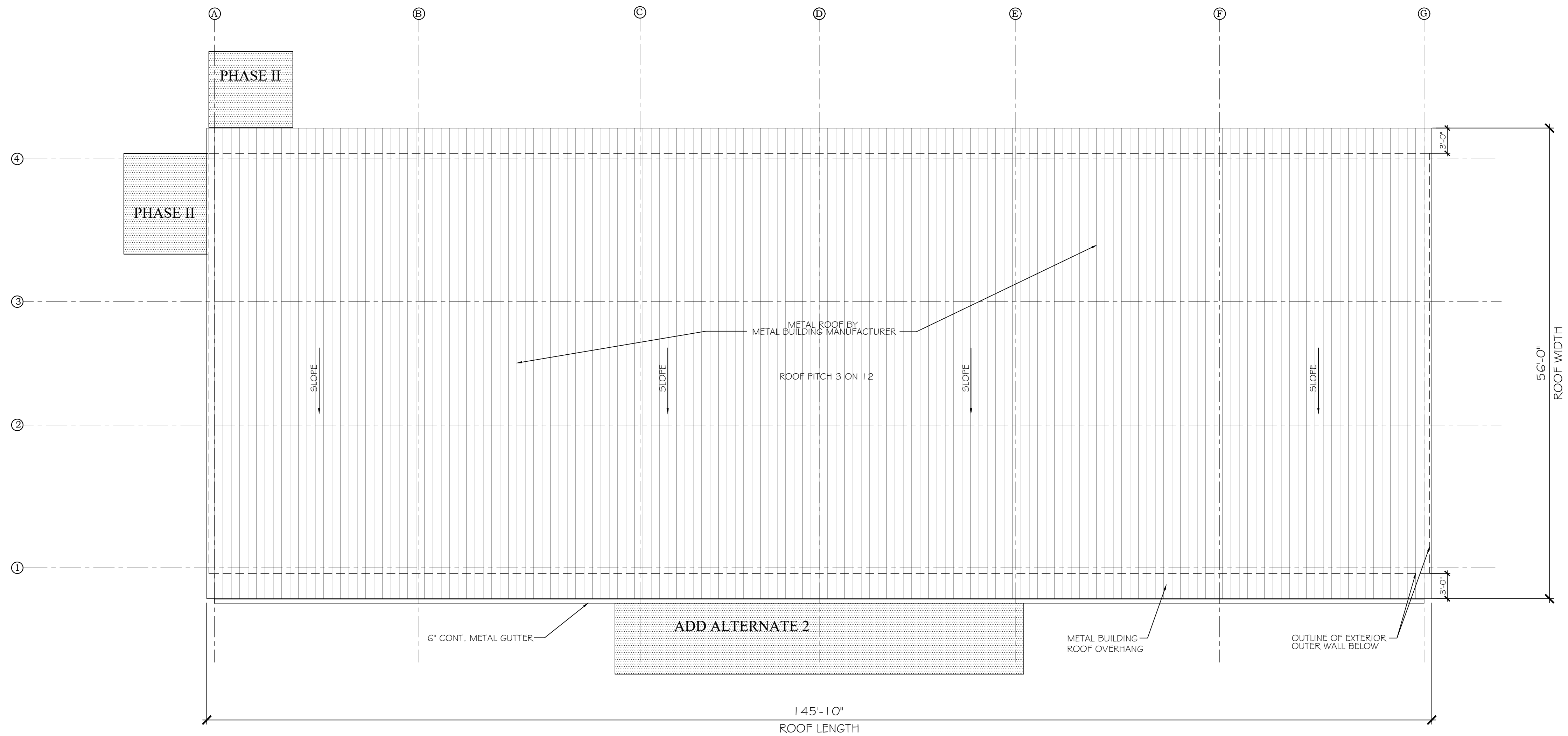
**A4.2**

SECTIONS AND DETAILS





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**ROOF PLAN**  
SCALE: 1/16"=1'-0"

PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

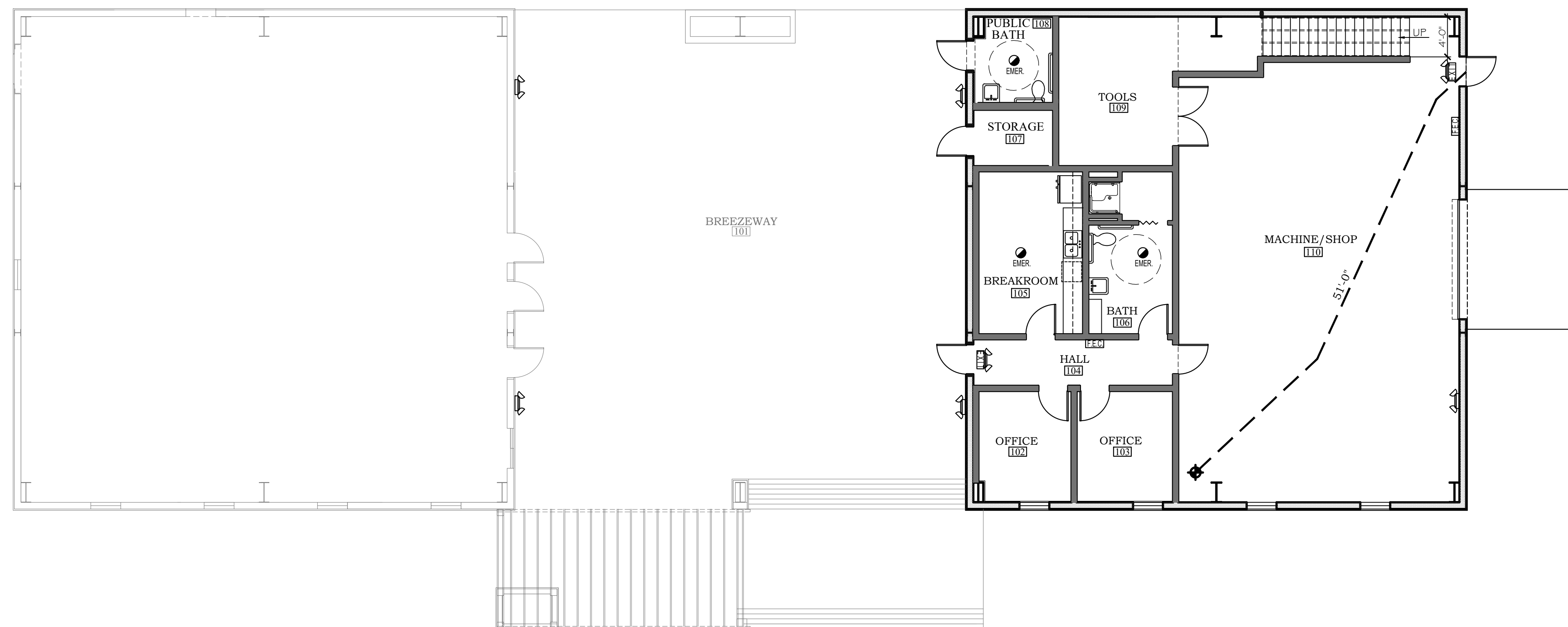
SHEET NO.:

**A7.1**

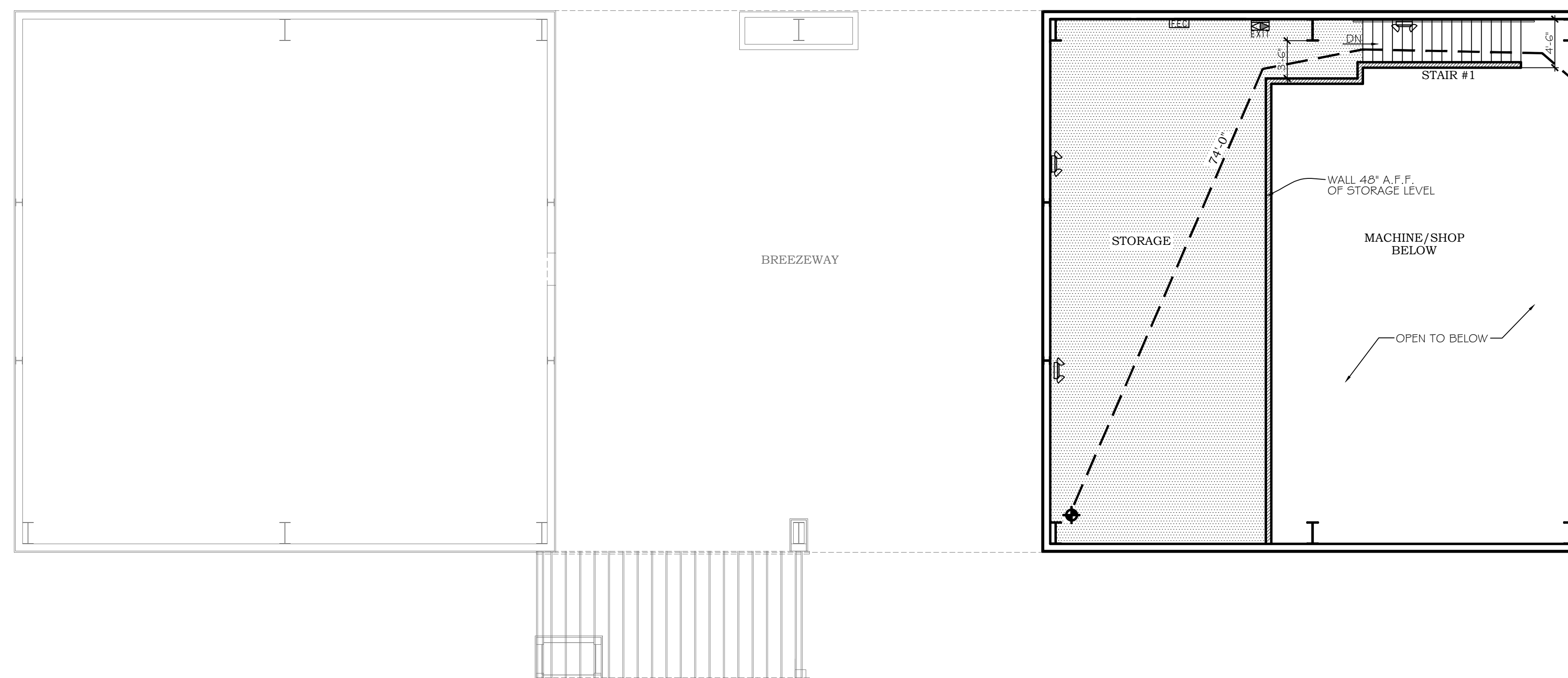
ROOF PLAN  
PHASE I

**PHASE I**





**FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0" FLOORED AREA: 2,368 S.F.



**SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0" FLOORED AREA: 1,022 S.F.

**GENERAL NOTES**

ALL GREYED OUT ITEMS ARE PART OF BASE PHASE I OR ADD ALTERNATE 2, NOT THIS ADD ALTERNATE 1

ALL DOOR THRESHOLDS TO HAVE MAXIMUM 1/2" TRANSITION, RE: A1.0

**LEGEND**

- 47' DISTANCE IN FEET EXIT TRAVEL DISTANCE
- EXIT SIGN WITH EMERGENCY LIGHTING
- HATCH INDICATES DIRECTION OF EXIT SIGN
- DIRECTIONAL ARROW EXIT SIGN
- BATTERY PACK EMERGENCY LIGHTS
- FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
- 2ND FLOOR - FLOORED AREA (FOR CLARITY)

**PROJECT SUMMARY**

THIS PROJECT PROVIDES FOR A NEW BUILD OUT (APPROXIMATELY 3,390 SQUARE FEET UNDER ROOF) FOR ORANGE BEACH COASTAL RESOURCES TRAIL SHOP. THE TRAIL SHOP PROVIDES FOR A SHOP AREA; ADMINISTRATION; AND RELATED SUPPORT SPACES.

THE OVERALL STRUCTURE IS A PRE-ENGINEERED METAL BUILDING STRUCTURE BUILT DURING BASE PHASE I. THIS ADD ALTERNATE 1 BUILD OUT INCLUDES WOOD-FRAMED INTERIOR WALL CONSTRUCTION.

- APPLICABLE BUILDING CODES**
- 2018 INTERNATIONAL BUILDING CODE
  - 2018 INTERNATIONAL PLUMBING CODE
  - 2018 INTERNATIONAL MECHANICAL CODE
  - 2018 INTERNATIONAL FIRE CODE
  - 2017 NATIONAL ELECTRICAL CODE
  - AMERICANS WITH DISABILITIES ACT (ADA)

**PROJECT CODE DATA**

-CONSTRUCTION TYPE	IIB, UNSPRINKLERED
-OCCUPANCY	MIXED, NON-SEPARATED <sup>1</sup>
<small>PHASE I-SI (MAINTENANCE SHOP)-3,200 @100 S.F./PERSON=34 PEOPLE                  PHASE I-BUSINESS (BREEZEWAY)-2,265 @150 S.F./PERSON=16 PEOPLE                  PHASE II-BUSINESS (WILDLIFE CENTER)-2,882 @150 S.F./PERSON=20 PEOPLE</small>	
-OCCUPANT LOAD	70 PEOPLE
-TOTAL AREA UNDER ROOF	8,852 S.F.
-FIRE RATED WALLS	NONE <sup>2</sup>
-REQUIRED EXIT TRAVEL DISTANCE	<200'
-REQUIRED FIRE EXTINGUISHER/PROVIDED	3,000 S.F./75FT. TRAVEL

<sup>1</sup> UNSEPARATED MIXED OCCUPANCY (B) BUSINESS, (SI) STORAGE  
<sup>2</sup> CORRIDOR FOR WILDLIFE CENTER SERVES LESS THAN 30 PEOPLE (NO RATING)

PHASE I DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.: 21-05  
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SCALE: 1/8" = 1'-0"

SHEET NO.:  
 ALT 1  
**LS1.1**

LIFE SAFETY PLAN

PHASE I ADD ALTERNATE 1





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**PHASE I DRAWINGS FOR  
ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA**

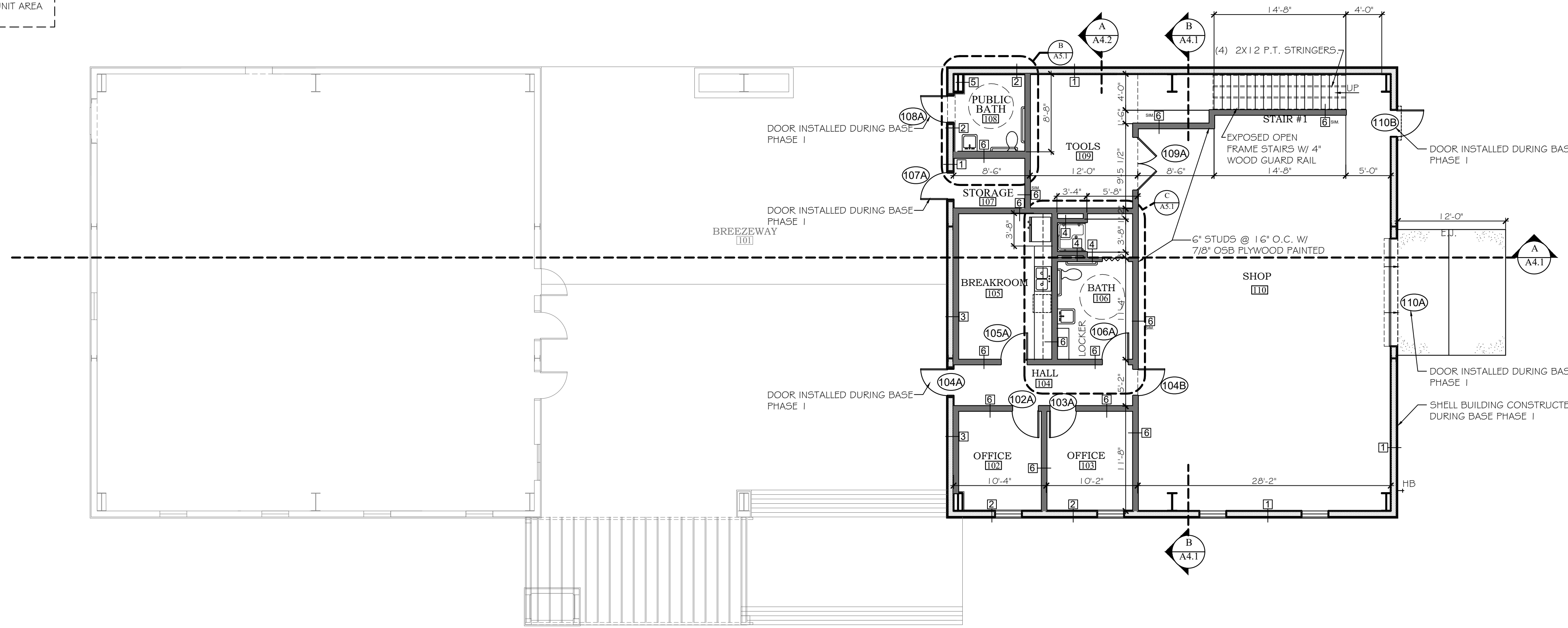
JOB NO.: 21-05  
DRAWN: CLT  
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DATE: 2021.06.01  
REVISION:

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

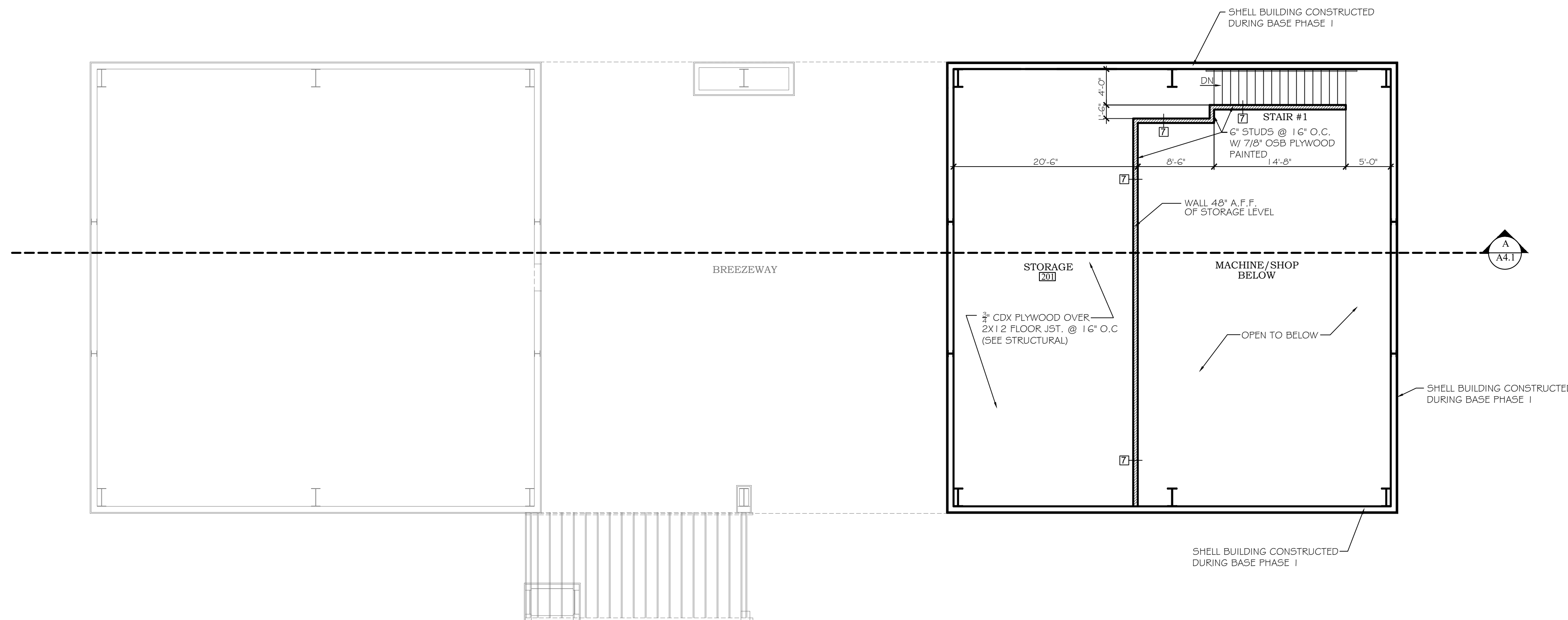
SHEET NO.:  
**ALT 1  
A1.1**

FLOOR PLANS

COND. UNIT AREA



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



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

**GENERAL NOTE**  
ALL GREYED OUT ITEMS ARE PART OF BASE PHASE 1 OR ADD ALTERNATE 2, NOT THIS ADD ALTERNATE 1

NOTE: ALL INTERIOR WALLS TO RECEIVE BATT INSULATION. 2X4 WALLS TO RECEIVE R-13, 2X6 WALLS TO RECEIVE R-19.

WALL TYPES	
1	EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION (CONSTRUCTED DURING PHASE I)
2	EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED
3	EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2X6" WOOD STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
4	INTERIOR WALL PROVIDE 2X4" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
5	PROVIDE 2" METAL STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED
6	INTERIOR WALL PROVIDE 2X6" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
7	WALL 48" A.F.F. OF STORAGE LEVEL. 6" STUDS @ 16" O.C. W/ 7/8" OSB PLYWOOD PAINTED. PROVIDE 1X6 FIR TOP CAP AND 1X2 FIR CASING
8	SHIP LAP SILL. THIS TYPE STICK UP WALL SHEILD CONSTRUCTED DURING PHASE I. ALTERNATE 1. PLYWOOD ON WOOD STUDS @ 16" O.C.

**PHASE I ADD ALTERNATE 1**





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PHASE I DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.: 21-05  
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 CHECKED: SBM  
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SCALE: 1/4"=1'-0"

SHEET NO.:  
**ALT 1**  
**A2.1**  
 DOOR, WINDOW &  
 FINISH SCHEDULE

**DOOR SCHEDULE**

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR LOCATION	DOOR FINISH	FRAME TYPE	FRAME FINISH	RATING	PANIC HDVWE	DOOR CLOSURE	REMARKS
101A	3'-0" X 7'-0"	F	WOOD	EXTERIOR	STAIN	WOOD	STAIN	-	-	-	INSTALLED DURING A LATER PHASE
102A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	
103A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	
104A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
104B	3'-0" X 7'-0"	B	METAL	INTERIOR	PAINT	METAL	PAINT	-	-	-	
105A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	
106A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	** CLOSER BY DOOR MANF.
107A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
108A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
109A	PR 3'-0" X 7'-0"	D	METAL	INTERIOR	PAINT	METAL	PAINT	-	-	-	
110A	12'-0" X 14'-0"	E	METAL	EXTERIOR	-	-	-	-	-	-	INSTALLED DURING BASE PHASE I
110B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
111A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
112A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
113A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
114A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
115A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
116A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
118A	PR 1'-6" X 7'-0"	A	WD. W/ LAM	INTERIOR	-	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
119A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
119B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
120A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
120B	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
121A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING BASE PHASE I
122A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
123A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
124A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
125A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
126A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
127A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
128A	PR 1'-6" X 7'-0"	A	WD. W/ LAM	INTERIOR	-	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
128B	PR 1'-6" X 7'-0"	A	WD. W/ LAM	INTERIOR	-	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
129A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
130A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE
202A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	INSTALLED DURING A LATER PHASE

NOTES: \*\* PROVIDE FULL AND PUSH PLATES, KICK PLATES AND CLOSER

**ROOM FINISH SCHEDULE**

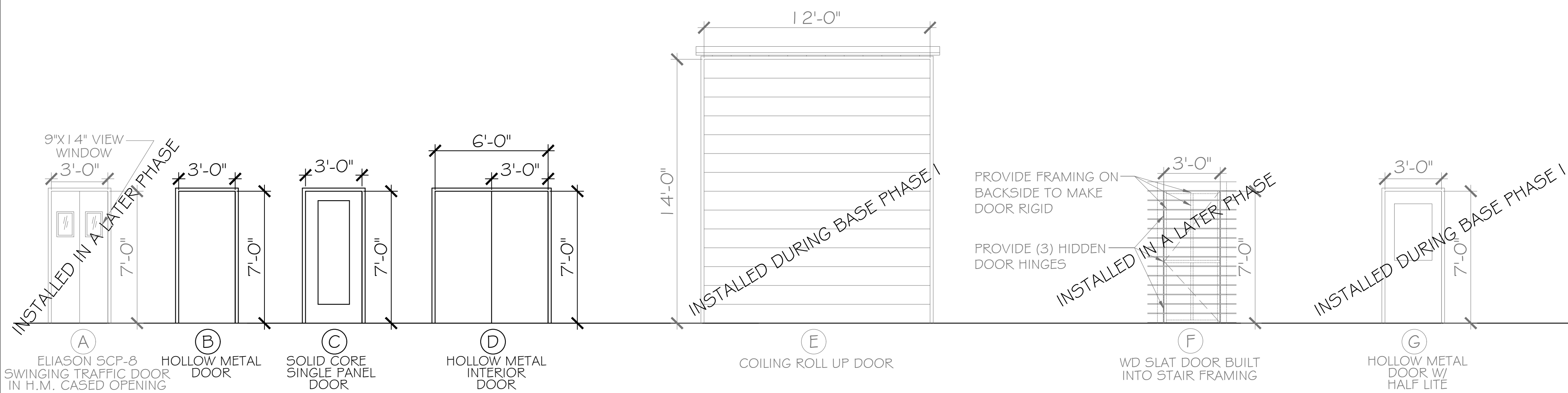
ROOM NAME	FLOOR		WALLS		CEILING		REMARKS
	FLOORS	BASE	MATERIALS	FINISH	MATERIAL	FINISH	
101 BREEZEWAY	SEALED CONCRETE	EXPOSED METAL BUILDING	METAL PANEL SIDING	-	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	COMPLETED DURING BASE PHASE I
102 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	
103 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	
104 HALL	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	
105 BREAKROOM	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	
106 BATH	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	PAINT	GYP. BD.	-	
107 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	
108 BATH	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	PAINT	GYP. BD.	-	
109 TOOLS	SEALED CONCRETE	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING	EXPOSED METAL BUILDING	GYP. BD.	-	
110 SHOP	SEALED CONCRETE	EXPOSED METAL BUILDING	PLYWOOD AT MEZZ. WALL / METAL BUILDING	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	-	
111 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
112 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
113 INTERN	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
114 ELECTRICAL	SEALED CONCRETE	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
115 REHAB #2	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
116 REHAB #1	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
117 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
118 KITCHEN / PREP.	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
119 CORRIDOR	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
120 ISOLATION	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
121 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
122 TRIAGE	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
123 REHAB #3	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
124 EMPLOYEE BATH	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
125 JANITOR	SEALED CONCRETE	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
126 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
127 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	COMPLETED DURING A LATER PHASE
128 TREATMENT	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
129 EXAM	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
130 LAUNDRY	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	COMPLETED DURING A LATER PHASE
201 STORAGE	EXPOSED PLYWOOD	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING				
202 STORAGE	EXPOSED PLYWOOD	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING				COMPLETED DURING A LATER PHASE

NOTES: \* ALL FRP PANELS INSTALLED TO 9'-0" A,F,F.

VCT - 12"X12" 1/8" STANDARD VINYL COMPOSITION TILE

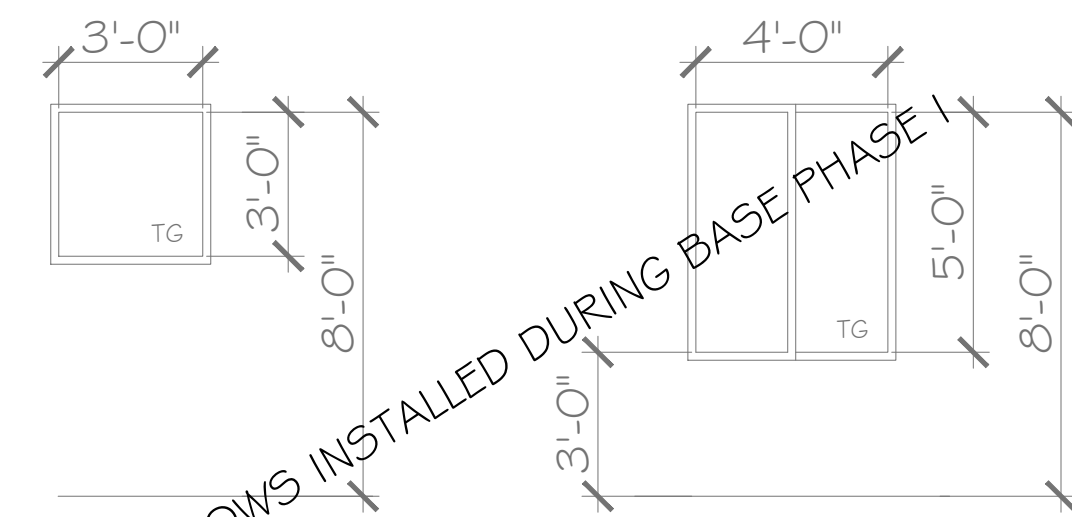
**GENERAL NOTES**

ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING BASE PHASE I OR ARE TO BE CONSTRUCTED DURING PHASE II



**DOOR FRAME / TYPES**

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



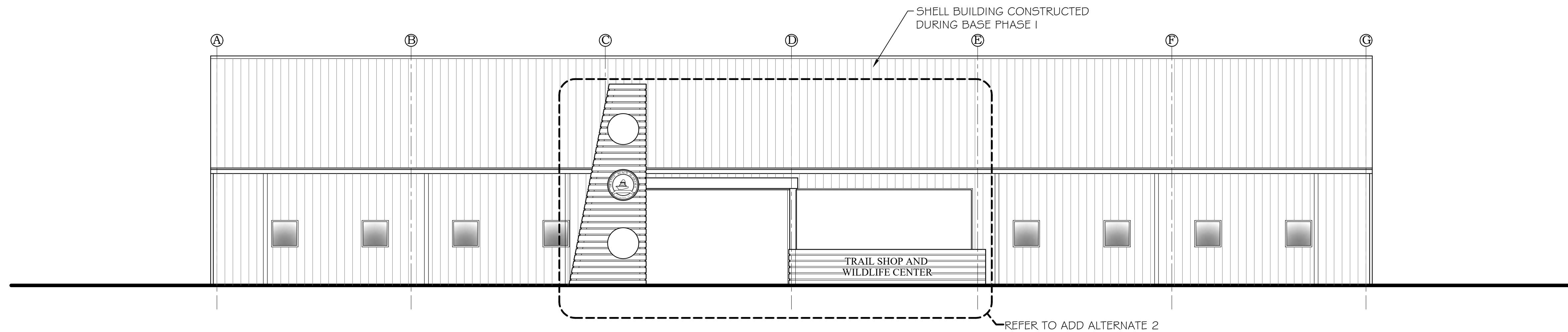
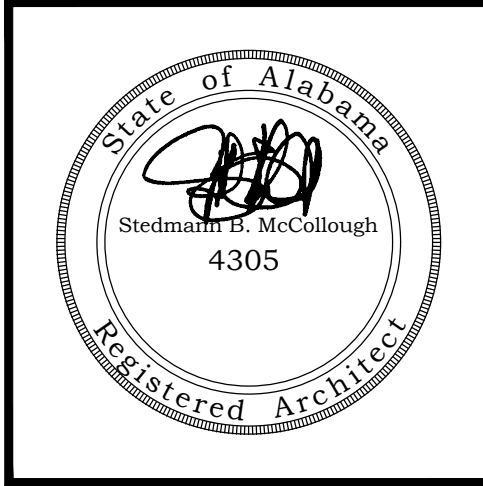
**WINDOW / TYPES**

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

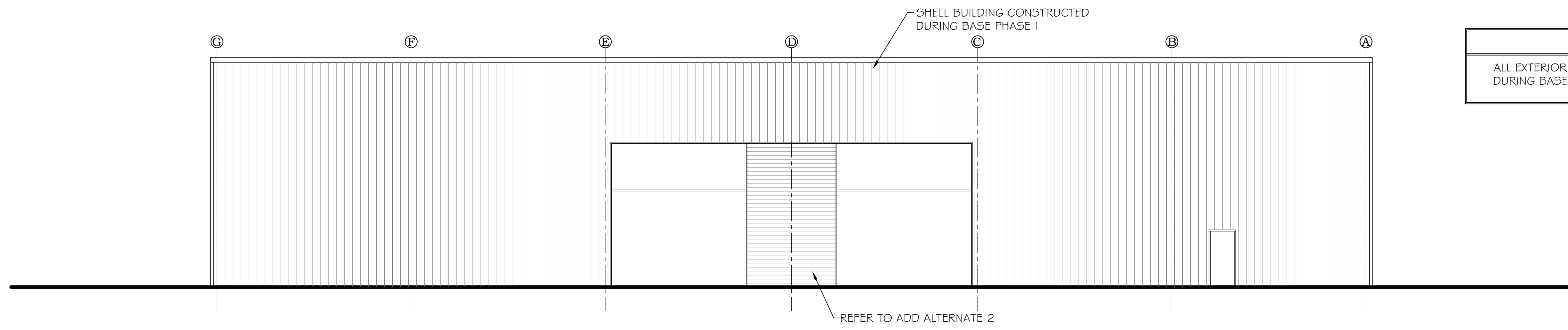
ALL WINDOW UNITS SHALL BE ALUMINUM STOREFRONT AND LARGE MISSILE IMPACT RESISTANT

PHASE I ADD ALTERNATE 1



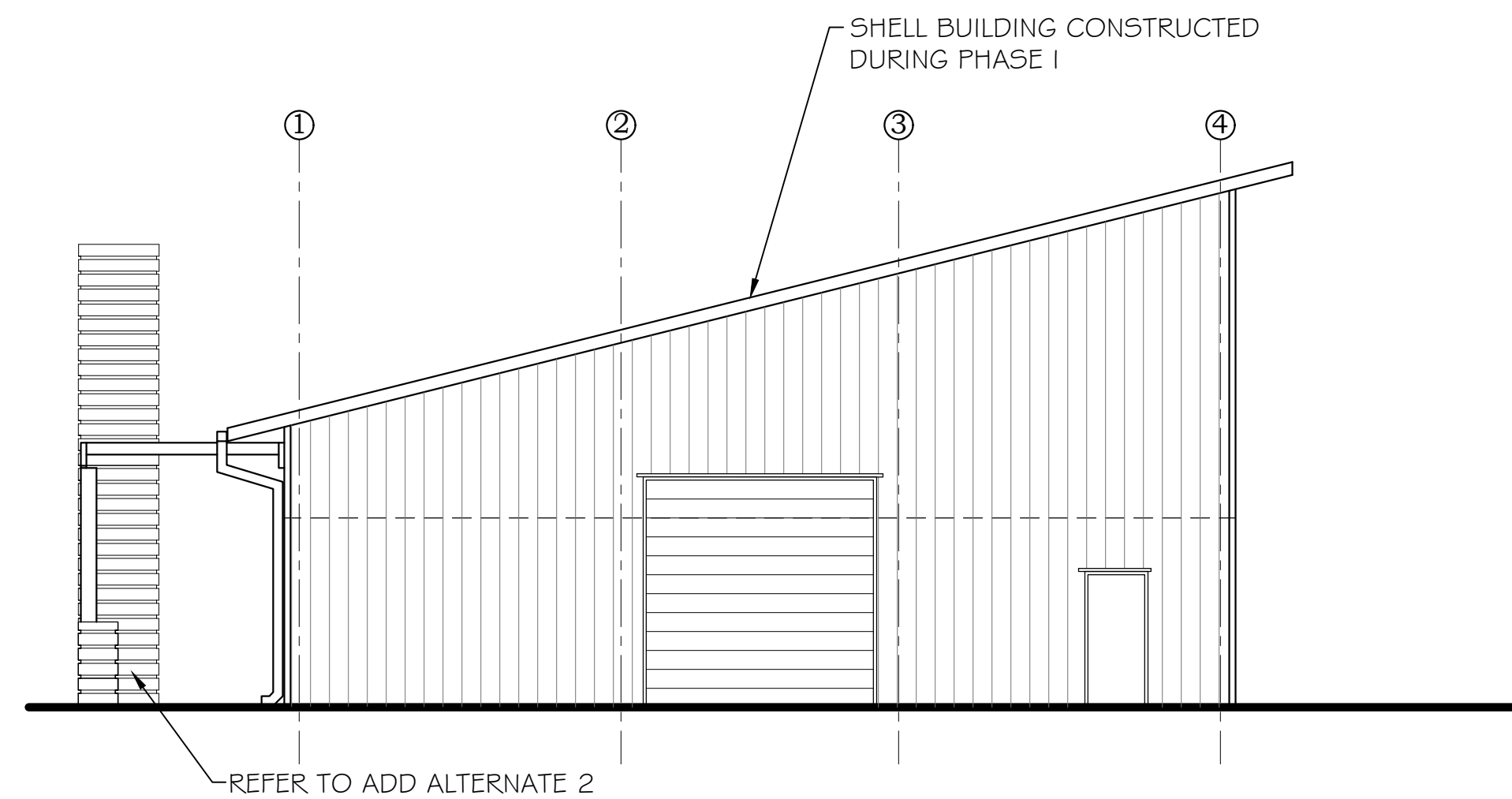


FRONT ELEVATION  
SCALE: 1/8"=1'-0"

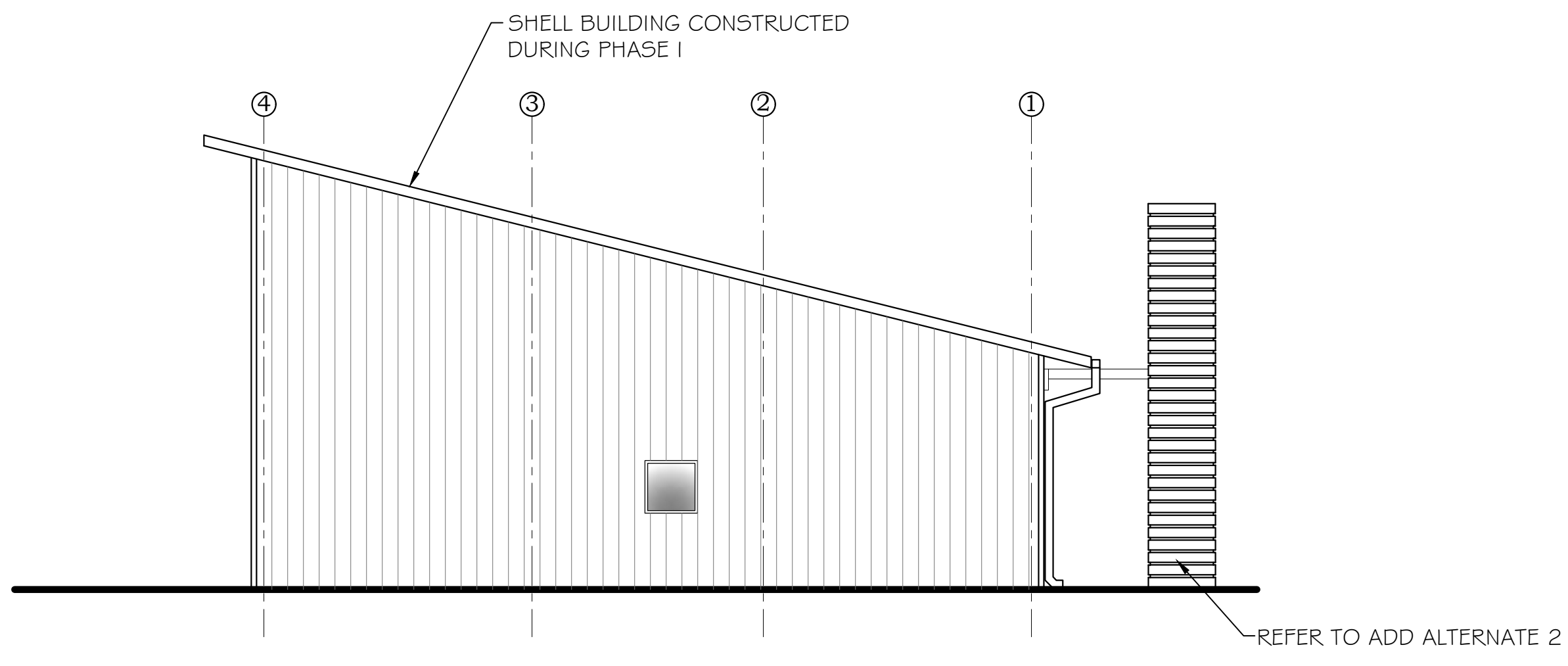


REAR ELEVATION  
SCALE: 1/8"=1'-0"

GENERAL NOTE  
ALL EXTERIOR ITEMS HAVE BEEN COMPLETED DURING BASE PHASE I OR ADD ALTERNATE II



LEFT SIDE ELEVATION  
SCALE: 1/8"=1'-0"



RIGHT SIDE ELEVATION  
SCALE: 1/8"=1'-0"

PHASE I DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

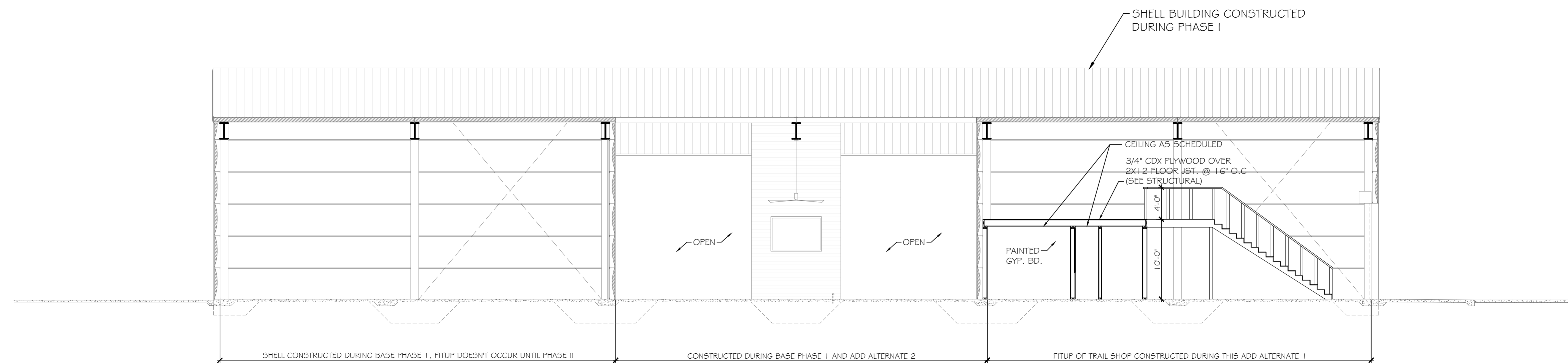
SCALE: 1/8" = 1'-0"

SHEET NO.:  
ALT 1  
A3.1

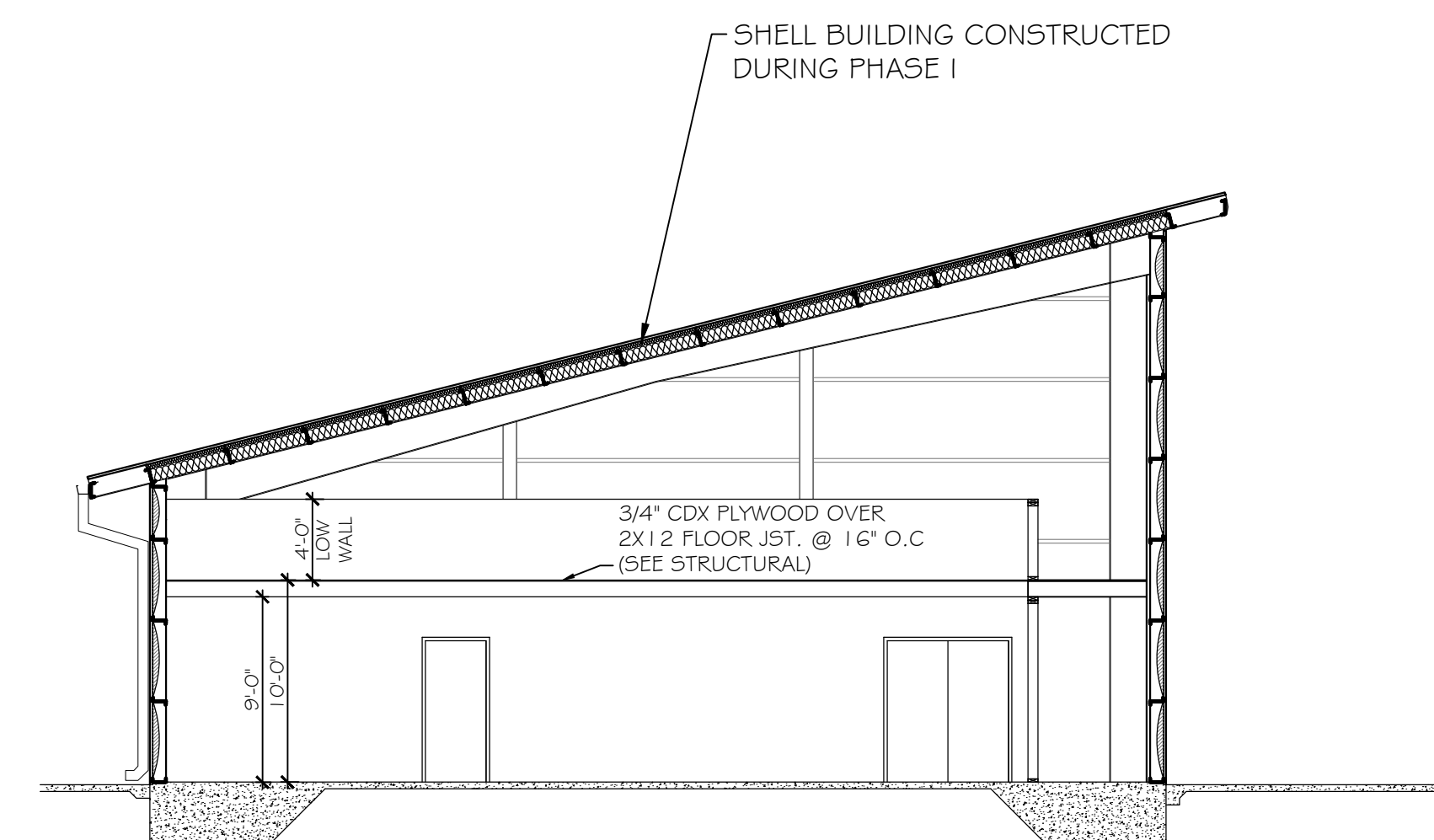
PHASE I  
EXTERIOR ELEVATIONS

PHASE I ADD ALTERNATE 1





**BUILDING SECTION**  
SCALE: 1/8"=1'-0"



**BUILDING SECTION**  
SCALE: 1/8"=1'-0"

PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:  
**ALT 1**  
**A4.1**  
PHASE I  
BUILDING SECTIONS

PHASE I ADD ALTERNATE 1

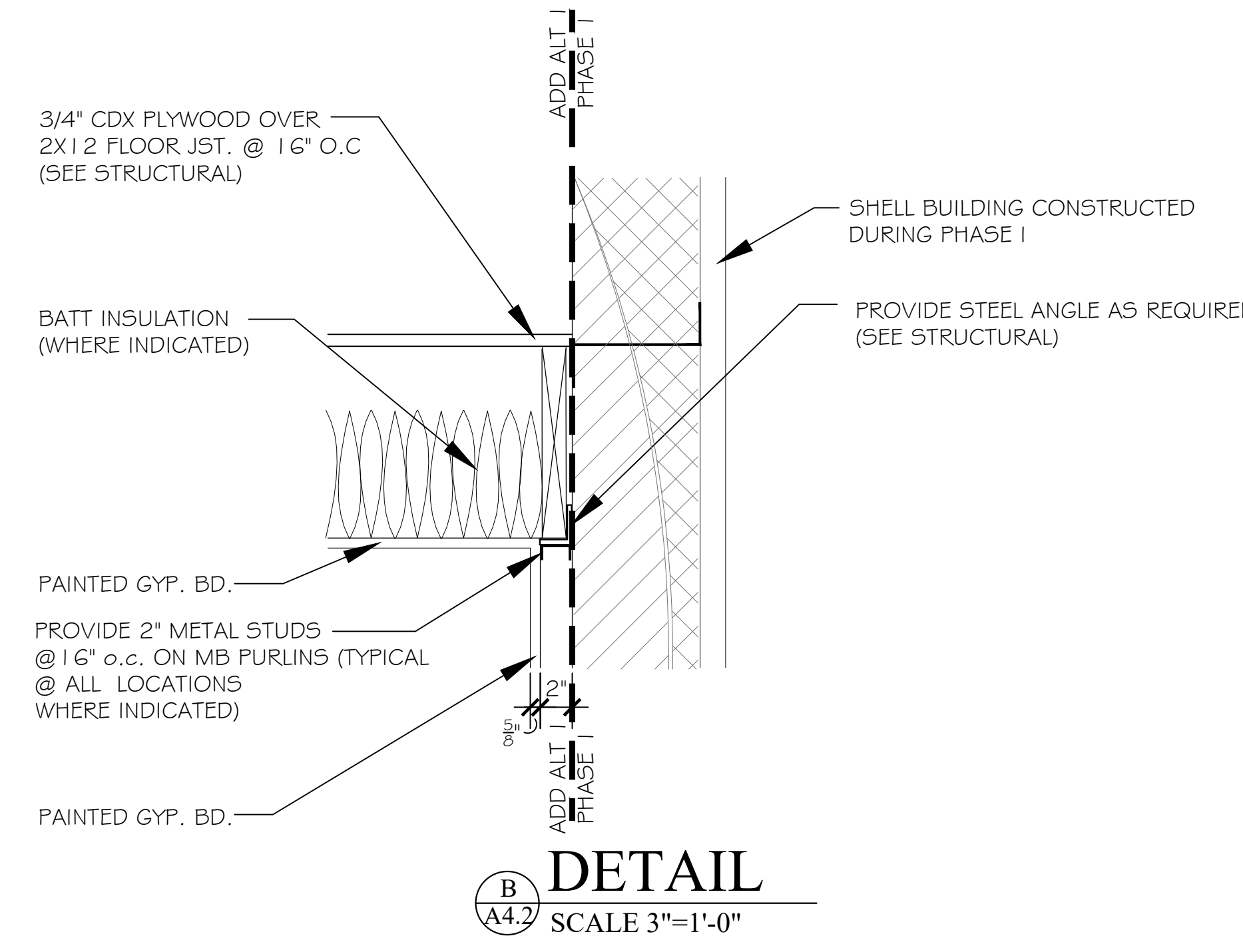




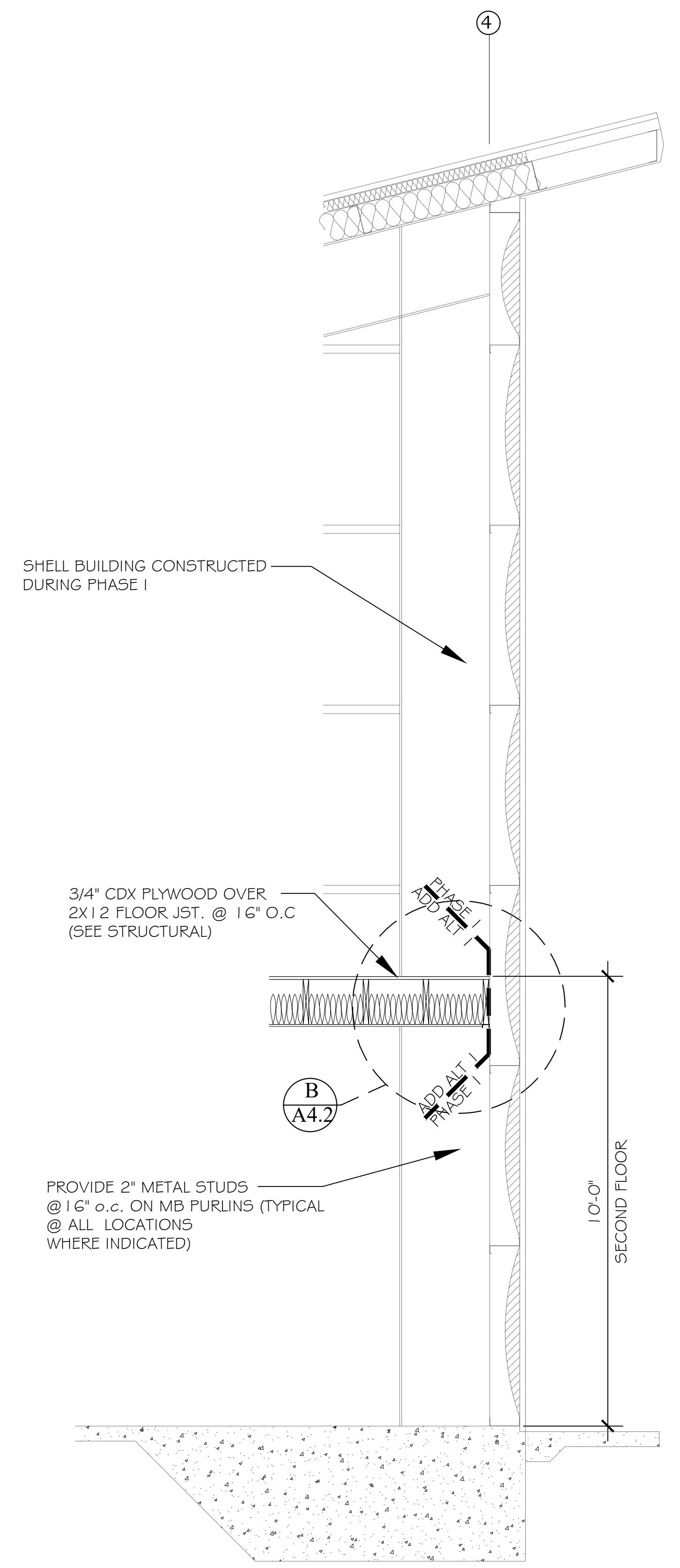
**MCCOLLOUGH  
ARCHITECTURE, INC.**  
P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA



**DETAIL**  
SCALE 3"=1'-0"



**BUILDING SECTION**  
SCALE 1/2"=1'-0"

PHASE I ADD ALTERNATE 1

JOB NO.:	21-05
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.06.01
REVISION:	

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

SHEET NO.:  
**ALT 1  
A4.2**

SECTIONS AND DETAILS





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36547-6310  
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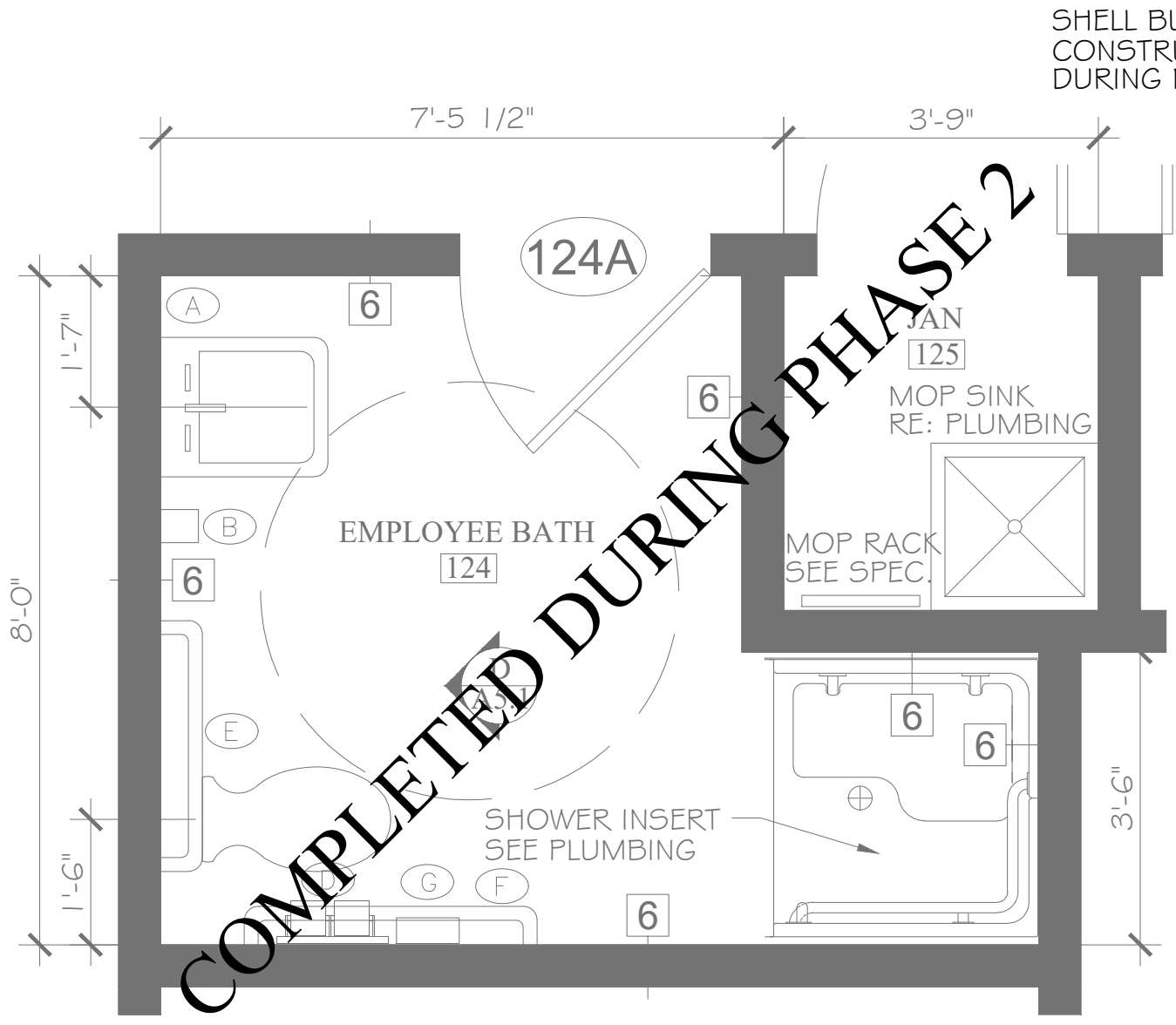
**PHASE I DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA**

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

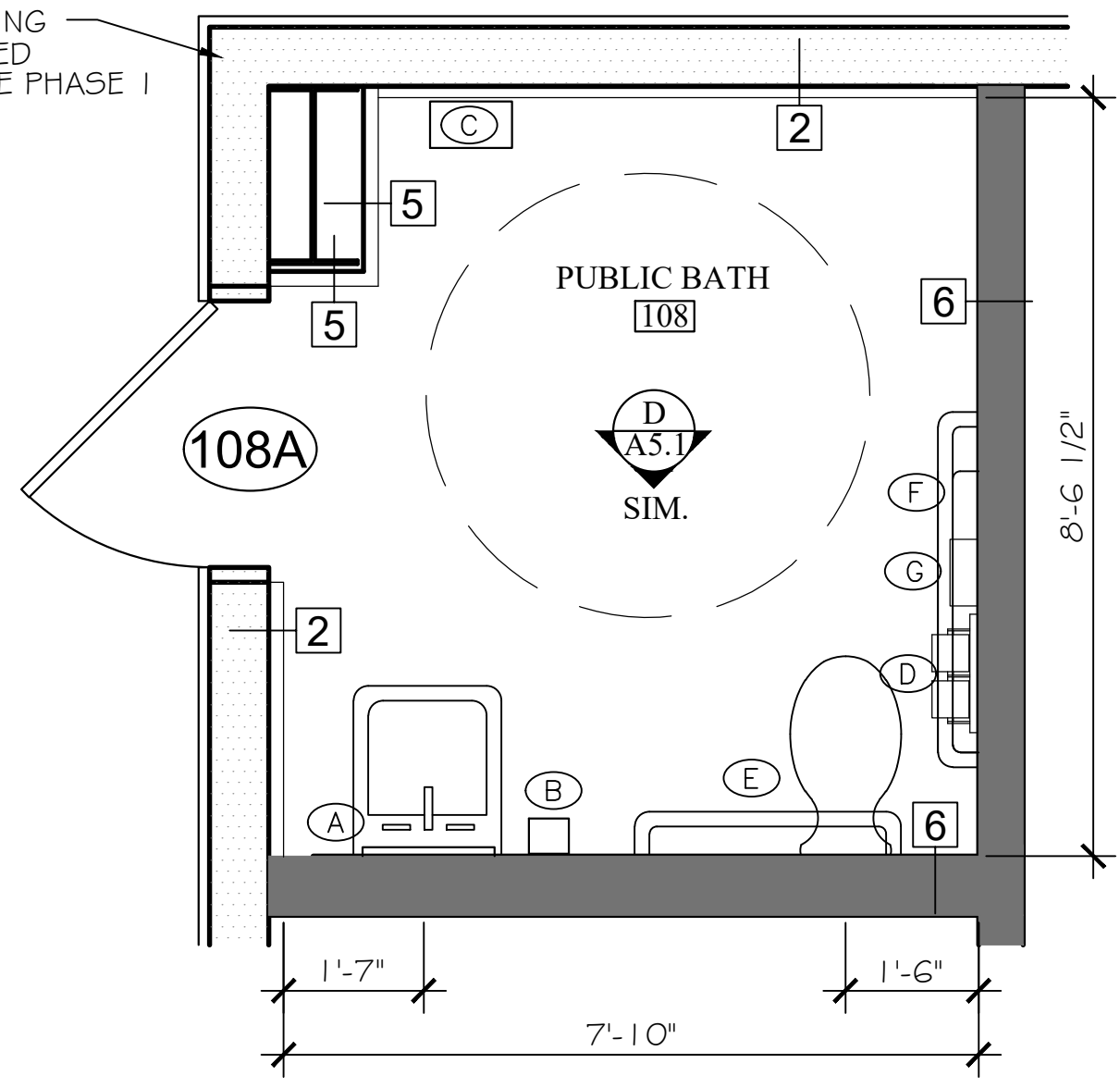
SCALE: 1/2" = 1'-0"

SHEET NO.: **ALT 1  
A5.1**

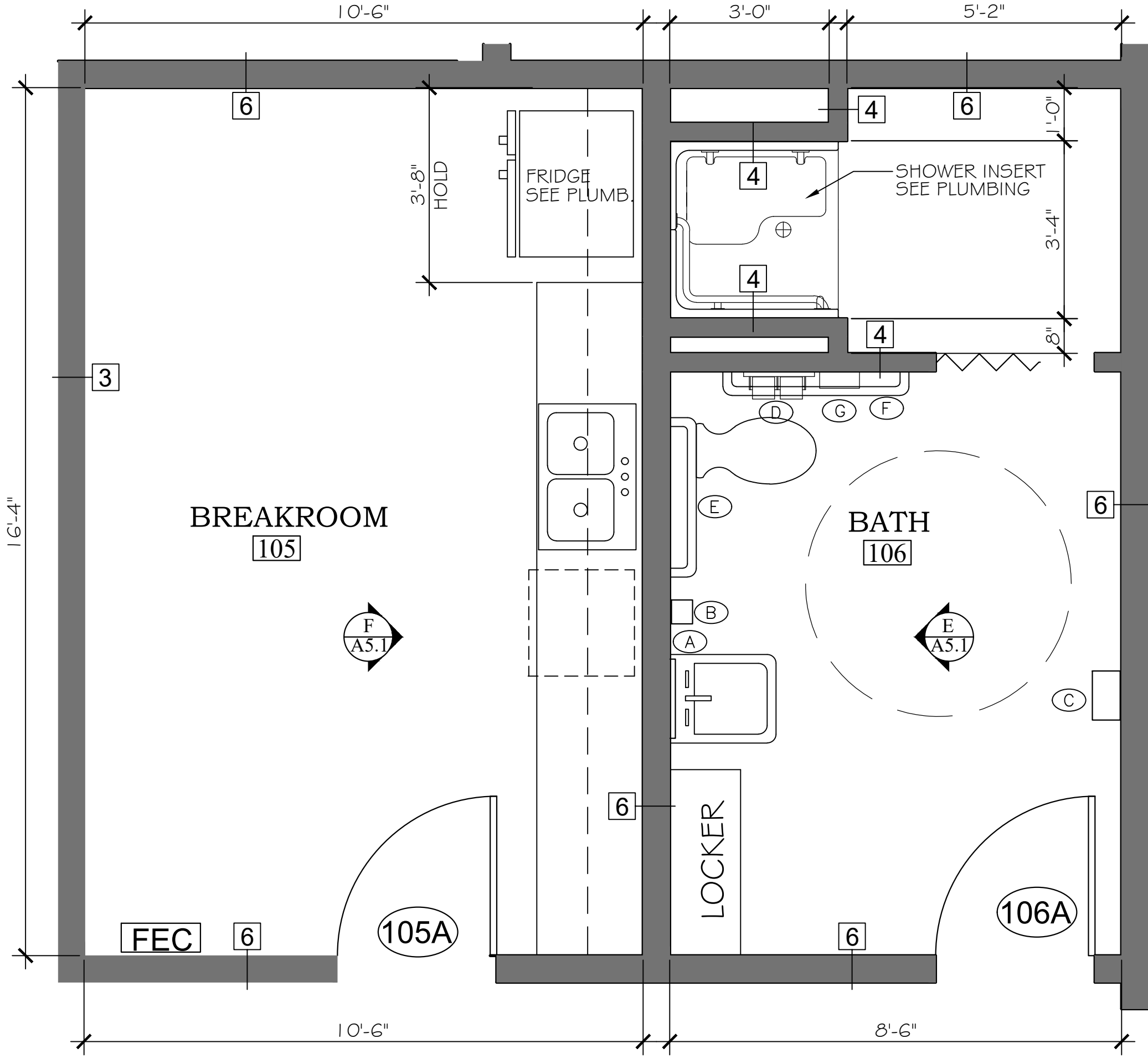
ENLARGED PLANS &  
INTERIOR ELEVATIONS



**A**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"



**B**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"

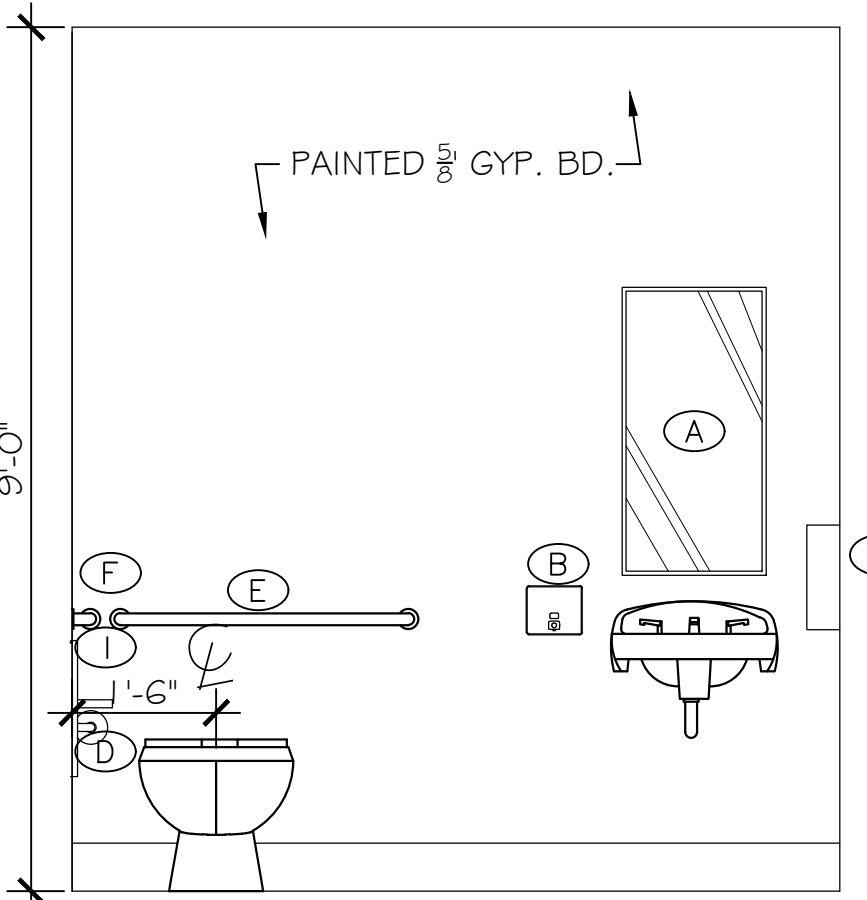


**C**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"

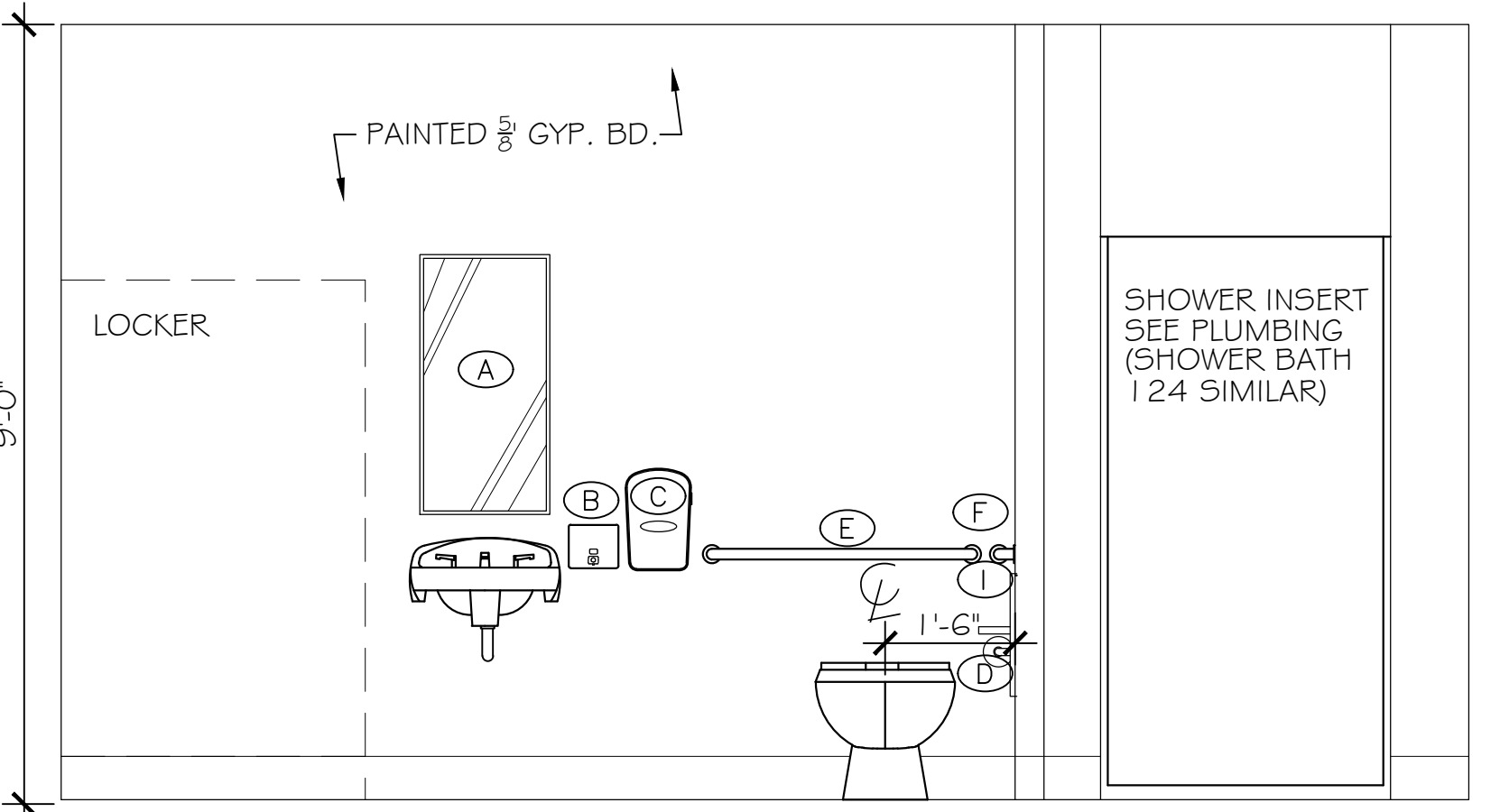
ACCESSORIES SCHEDULE	
SYMBOL	DESCRIPTION
(A)	ACCESSIBLE MIRROR UNIT (MIR)
(B)	SOAP DISPENSER (SD)
(C)	PAPER TOWEL DISP./WASTE RECEPT. (PTD)
(D)	TOILET PAPER DISPENSER (TPD)
(E)	36" REAR GRAB BAR (GB)
(F)	42" SIDE GRAB BAR (GB)
(G)	SANITARY NAPKIN DISPOSAL (SND)
(H)	18" VERT. GRAB BAR

NOTE: PROVIDE BLOCKING IN WALLS AS REQUIRED FOR ALL ACCESSORIES.

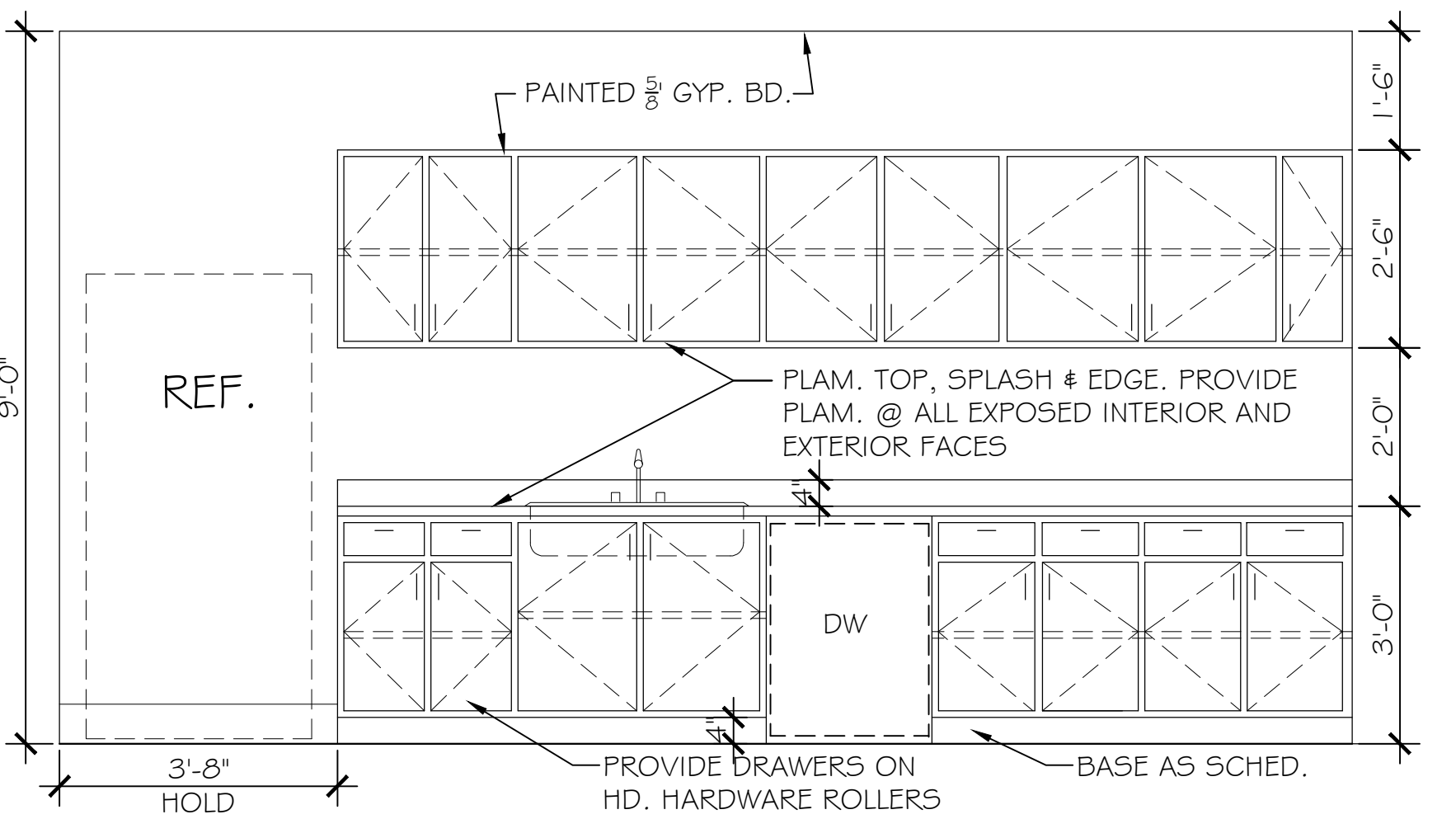
WALL TYPES	
<b>2</b>	EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED
<b>3</b>	EXTERIOR METAL BUILDING WALL WITH 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2X6" WOOD STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
<b>4</b>	INTERIOR WALL PROVIDE 2X4" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
<b>5</b>	PROVIDE 2" METAL STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED
<b>6</b>	INTERIOR WALL PROVIDE 2X6" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)



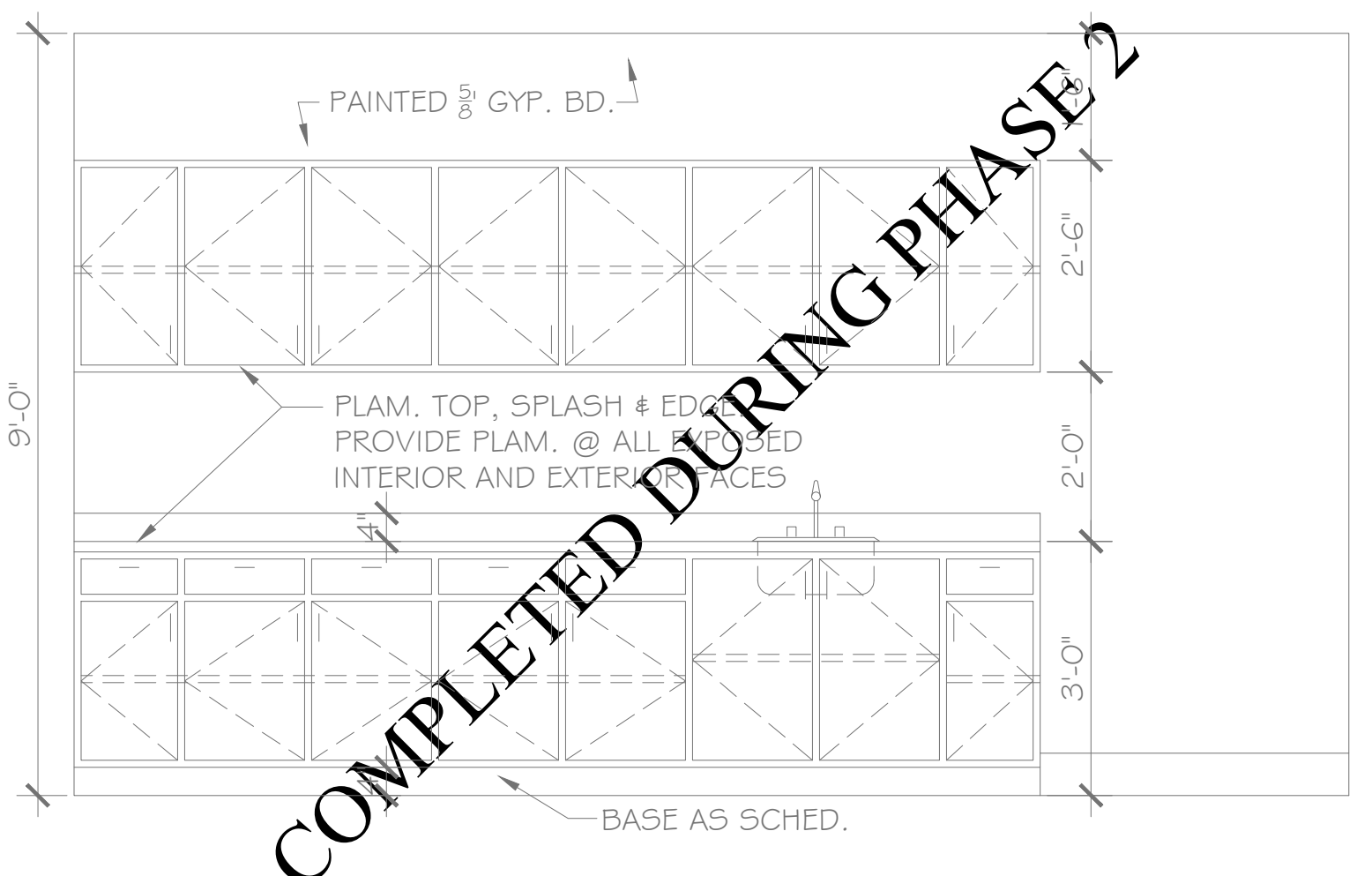
**D**  
A5.1 BATH 124 & 108  
SCALE: 1/2"=1'-0" NOTE: ROOM 124 TO BE BUILT DURING PHASE II



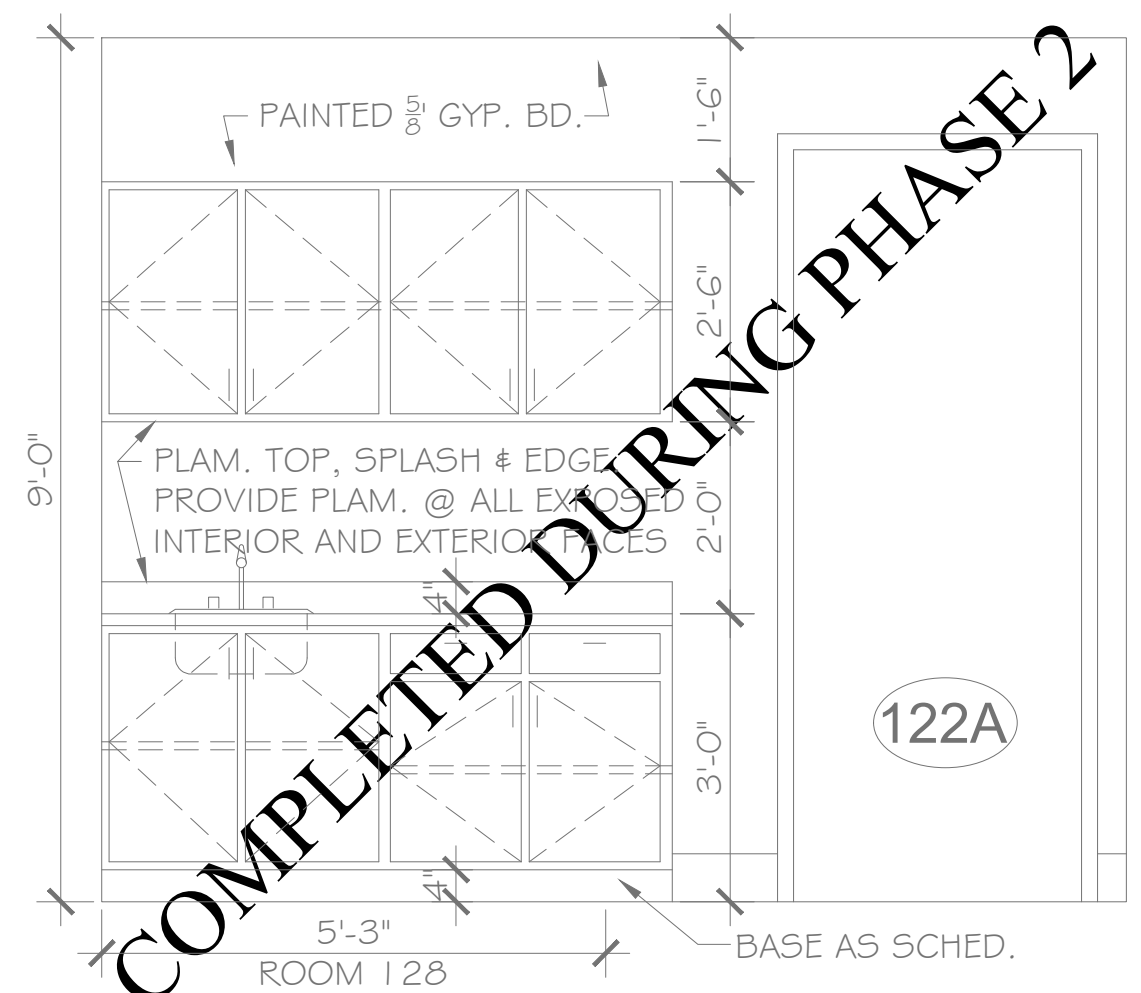
**E**  
A5.1 BATH 106  
SCALE: 1/2"=1'-0"



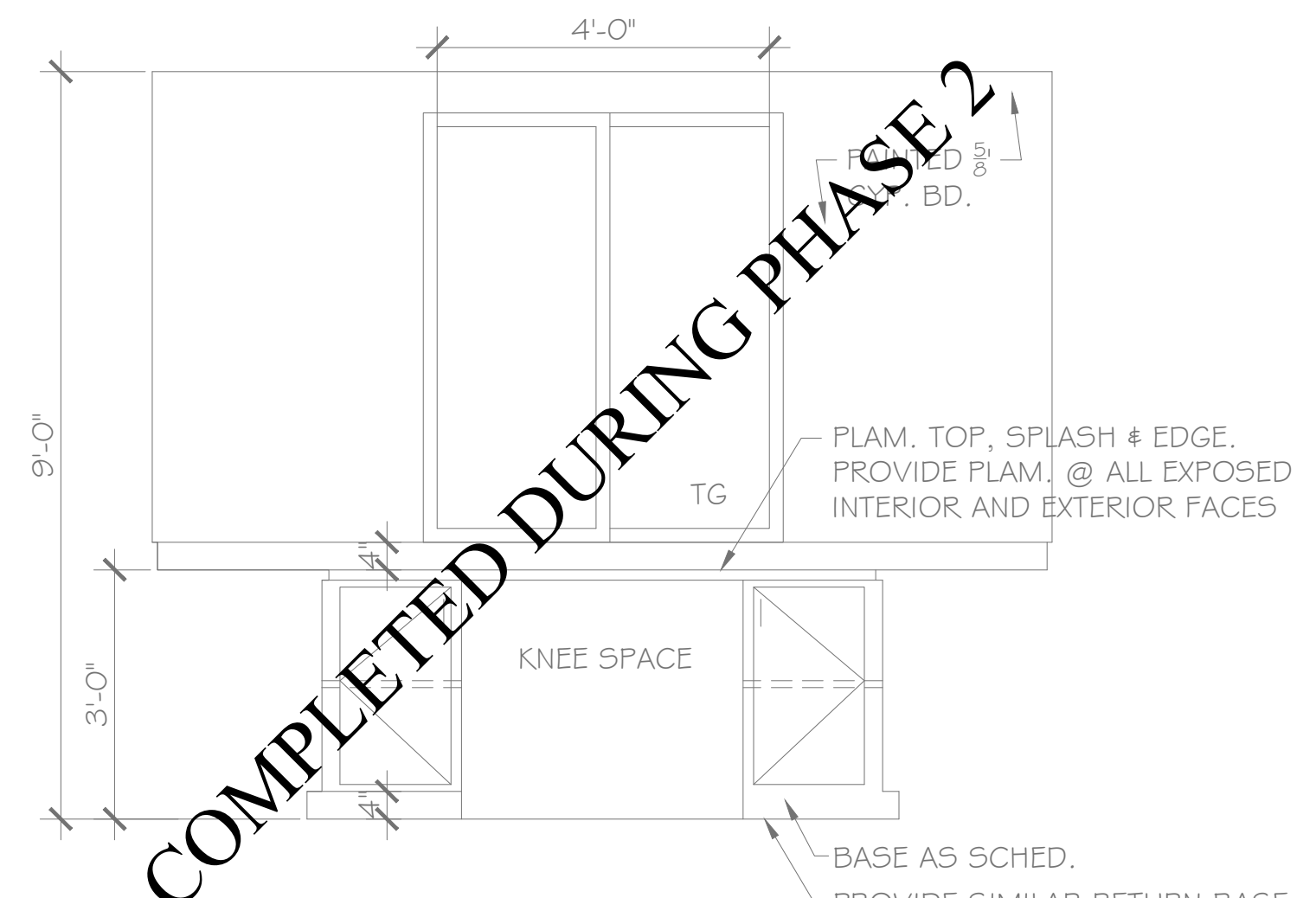
**F**  
A5.1 BREAKROOM 105  
SCALE: 1/2"=1'-0"



**G**  
A5.1 REHAB 2 115  
SCALE: 1/2"=1'-0" 116 SIM. OPP. HAND



**H**  
A5.1 TRIAGE 122  
SCALE: 1/2"=1'-0" 123 SIM. OPP. HAND 128 SIM.



**I**  
A5.1 OFFICE 111  
SCALE: 1/2"=1'-0"

PHASE I ADD ALTERNATE 1



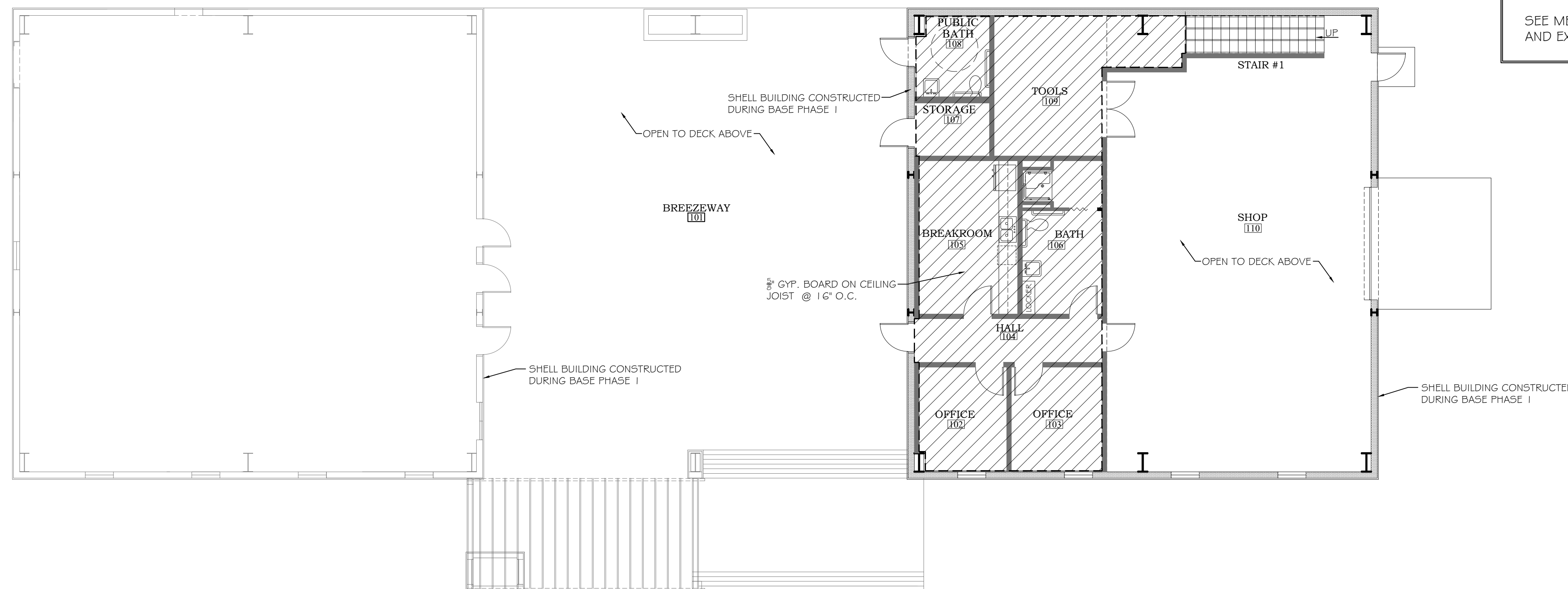
COND. UNIT AREA

**GENERAL NOTES**

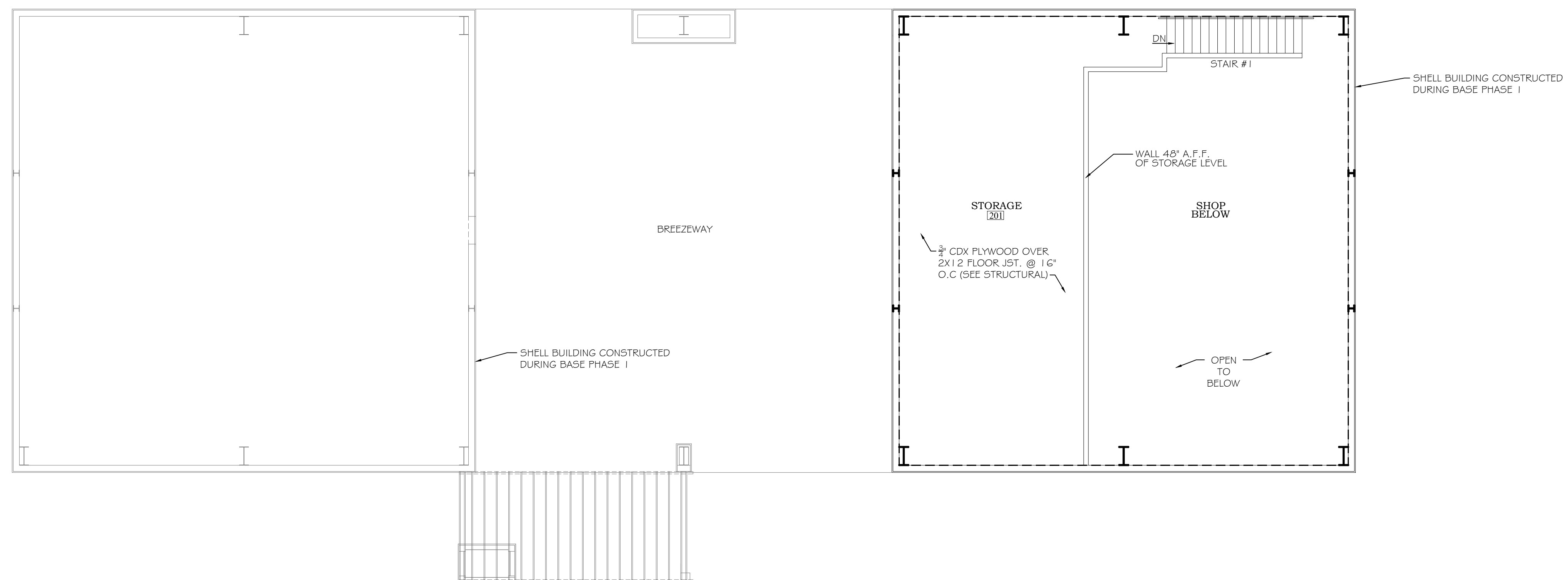
ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING BASE PHASE I AND ADD ALTERNATE 2

SEE ELECTRICAL AND LIFE SAFETY PLANS FOR LIGHT FIXTURES AND REQUIRED SAFETY DEVICES

SEE MECHANICAL PLANS FOR HVAC SUPPLY, RETURN AND EXHAUST VENTS



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



**SECOND FLOOR REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"

**PHASE I ADD ALTERNATE 1**



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PHONE: 251-968-7222



**PHASE I DRAWINGS FOR**  
**ORANGE BEACH**  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:  
**ALT 1**  
**A6.1**

REFLECTED CEILING PLAN





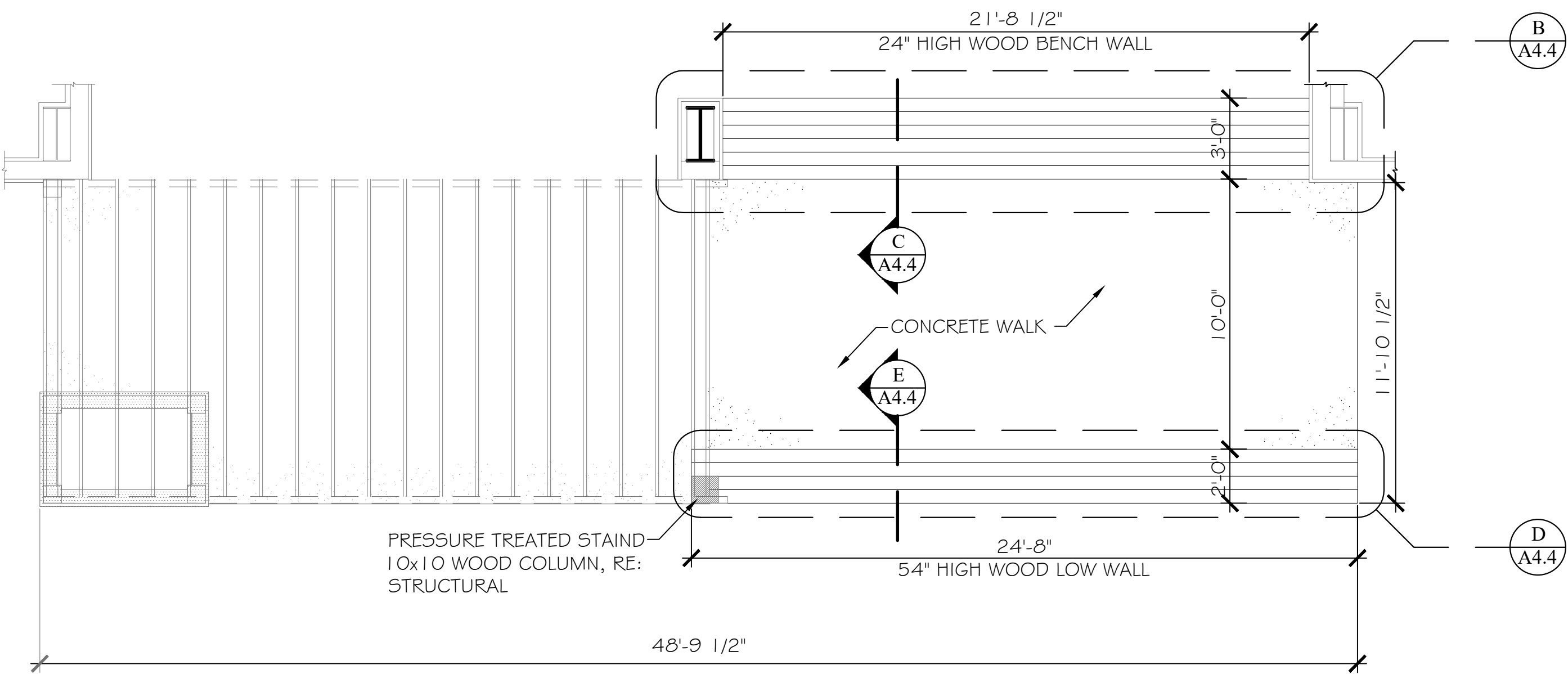






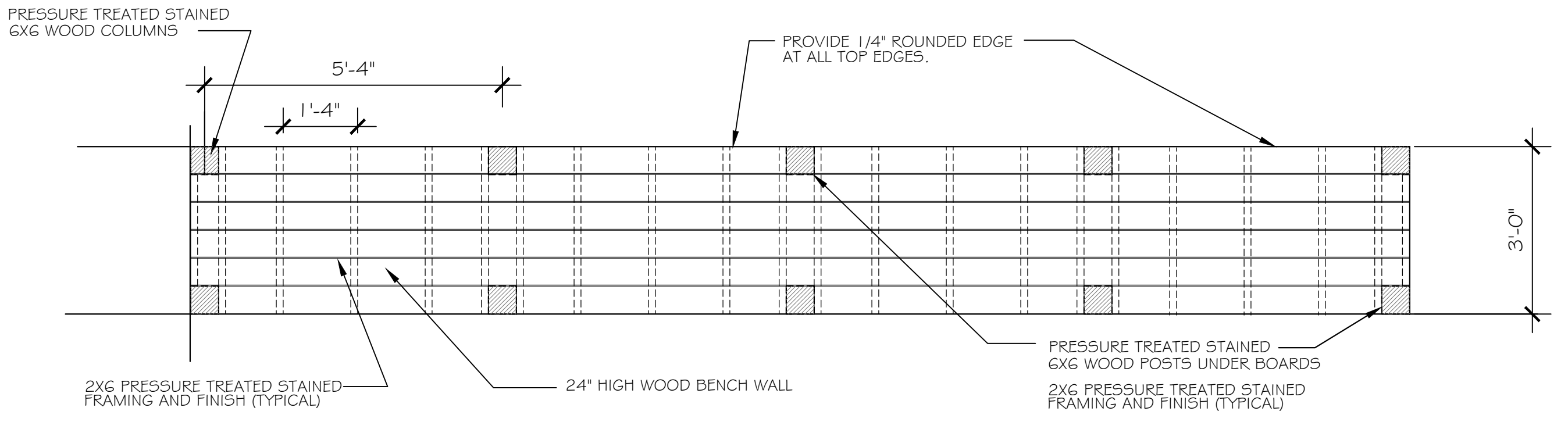


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 36547-6310  
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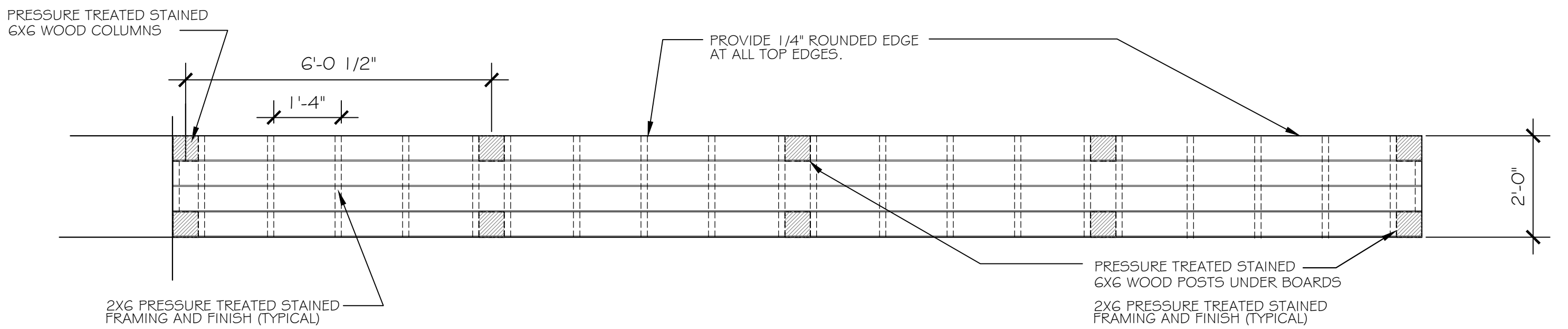


**A PLAN**  
 A4.3 SCALE 1/4"=1'-0"

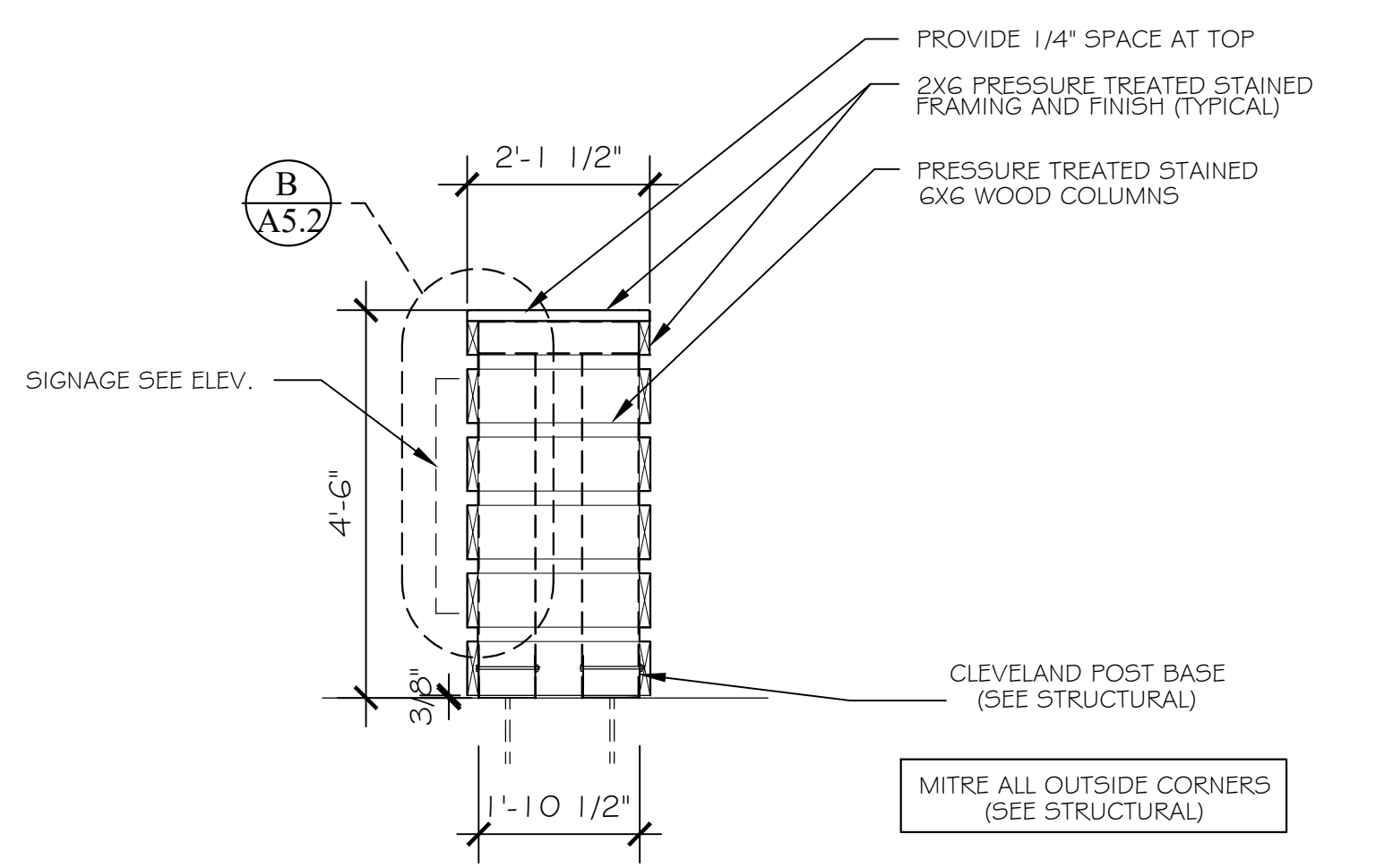
**NOTES**  
 REFER TO SPECIFICATIONS FOR EXTERIOR FASTENING, NAILING AND ALL REQUIREMENTS FOR EXTERIOR FINISH WOOD AND SIDING (SEE STRUCTURAL)  
 MITRE ALL OUTSIDE CORNERS (SEE STRUCTURAL)



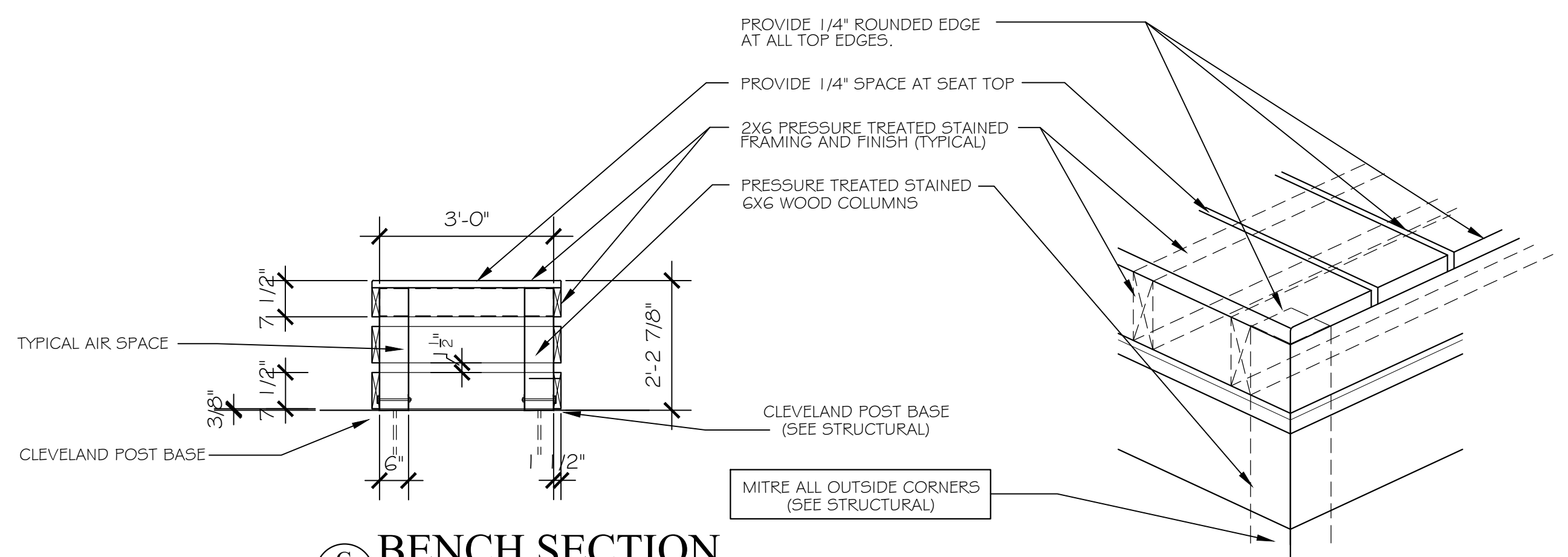
**B WOOD BENCH WALL**  
 A4.4 SCALE 1 1/2"=1'-0"



**D HIGH WOOD WALL PLAN**  
 A4.4 SCALE 1 1/2"=1'-0"



**E HIGH WOOD WALL SECTION**  
 A4.4 SCALE 1 1/2"=1'-0"



**C BENCH SECTION**  
 A4.4 SCALE 1/2"=1'-0"

**F PARTIAL AXON**  
 A4.4 SCALE 1/2"=1'-0"

PHASE I DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.: 21-05  
 DRAWN: CLT  
 CHECKED: SBM  
 DATE: 2021.06.01  
 REVISION:

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

SHEET NO.:  
 ALT 2  
**A4.4**

PHASE I ADD ALTERNATE 2

SECTIONS AND DETAILS





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36547-6310  
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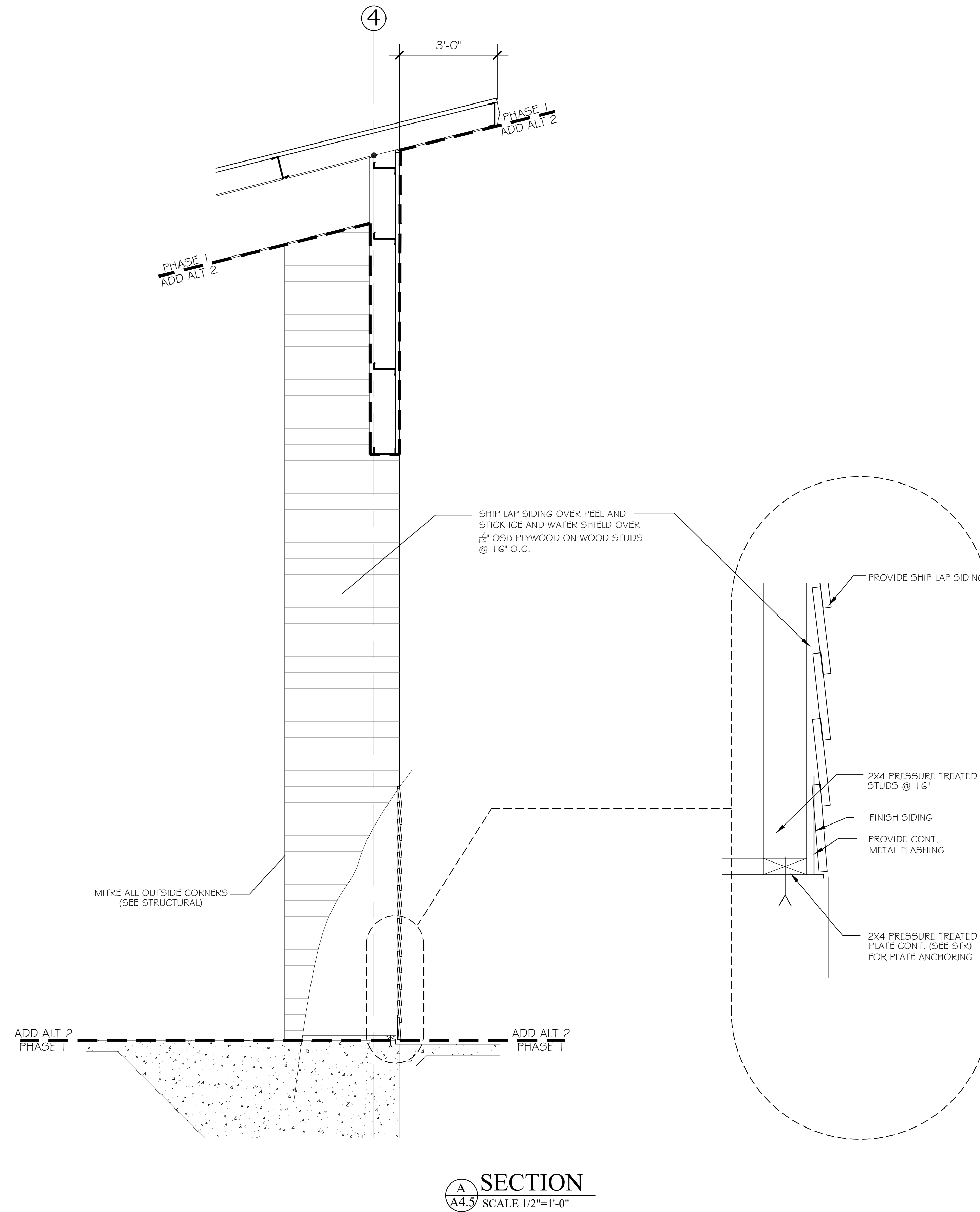
PHASE I DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-05  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

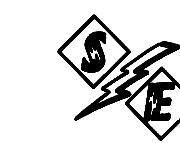
SHEET NO.:  
**ALT 2**  
**A4.5**

SECTIONS AND DETAILS



NOTE:  
REFER TO SPECIFICATIONS  
FOR EXTERIOR FASTENING, NAILING  
AND ALL REQUIREMENTS FOR  
EXTERIOR FINISH WOOD AND SIDING  
(SEE STRUCTURAL)

PHASE I ADD ALTERNATE 2



**STEWART ENGINEERING  
AND CONSTRUCTION**  
40680 STATE HWY 59  
BAY MINETTE, ALABAMA 36507  
(251)-937-6313 (251)-937-1782 Fax  
wstewart@stewartengineering.net



**McCullough  
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36547-6310  
PHONE: 251-968-7222



PHASE 1 DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: GWS  
 CHECKED: GWS  
 DATE: 2021.04.22  
 REVISION:  
 SCALE: AS SHOWN  
 SHEET NO.:  
**E1.0**  
 ELECTRICAL NOTES  
 AND LEGEND

**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
	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH, 120/277V, 20A. 3"-10" AFF
	MOTOR RATED SWITCH, VERIFY REQUIREMENT AND # OF POLES W/ EQUIPMENT
	SINGLE POLE, THREE POSITION MOMENTARY CONTACT, 120/277 V, 20A. 3"-10" AFF
	DIMMER SWITCH. 120/277V, FLUOR/INC AND AMPERAGE AS REQUIRED. 3"-10" AFF
	KEYED SWITCH. 120/277V, AMPERAGE AS REQUIRED. 3"-10" AFF
	LOW VOLTAGE SWITCH. 3"-10" AFF
	OCCUPANCY SENSOR, 3"-10" AFF WALL/CEILING MTD.
	OCCUPANCY SENSOR, 3"-10" AFF DUAL RELAY FOR LIGHTING/EXHAUST FAN
	OCCUPANCY SENSOR, RELAY/POWER PACK, CONCEALED, ACCESSIBLE.
	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, 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
	ABOVE GROUND CONDUIT
	UNDERGROUND CONDUIT
	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	MAX	MAXIMUM
&	AND	MCB	MAIN CIRCUIT BREAKER
A	AMPERE	MCC	MOTOR CONTROL CENTER
AB	ABOVE	MCM	1000 CIRCULAR MILS
AC	ALTERNATING CURRENT	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AFC	ABOVE FINISH CEILING	MIN	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	APPROXIMATE(LY)	MTG	MOUNTING
ARCH	ARCHITECT(URAL)	MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	N	NEUTRAL
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 ASSOC.
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
CTV	CURRENT TRANSFORMER	P	POLE
CU	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	POLY	POLYETHYLENE CHLORIDE
DN	DOWN	PW	PART WINDING
DP&L	GARBAGE DISPOSAL	REF	REFERENCE
DP&T	DOUBLE POLE - SINGLE THROW	REQ	REQUIRED
DP&T	DOUBLE POLE - DOUBLE THROW	RATED	RATED LOAD AMPERES
DTX&MR	DRY TYPE TRANSFORMER	RM	ROOM
DW	DISHWASHER	RNC	RIGID NONMETALLIC CONDUIT
EACH	EACH	RNG	ELECTRICAL RANGE
EA	EXHAUST	REF	REFRIGERATOR
EM	EMERGENCY	RT	RAIN TIGHT
EMT	ELECTRICAL METALLIC TUBING	SCCR	SHORT CIRCUIT CURRENT RATING
EP	EXPLOSION PROOF	SCH	SCHEDULE
EQUIP	EQUIPMENT	SD	SECONDARY
ER	EXISTING, REMOVE	SE	SERVICE ENTRANCE
EW	ELECTRIC WATER COOLER	SEC	SECONDARY
EX	EXISTING, REPLACE WITH NEW	SH	SHIELD
F	FUSE	SI	INTERNATIONAL SYSTEM OF UNITS
F	FLUSH MTG	SLD	SINGLE LINE DIAGRAM
FA	FIRE ALARM	SMR	SURFACE METALLIC RACEWAY
FIN	FINISHED	SN	SOLID NEUTRAL
FLR	FLOOR	SPECS	SPECIFICATIONS
FLA	FULL LOAD AMPERES	SPOT	SINGLE POLE - DOUBLE THROW
FLX	FLEXIBLE METAL CONDUIT	SP&T	SINGLE POLE - SINGLE THROW
GA	GAUGE	S&T	STATIC TRANSFER SWITCH
GALV	GALVANIZED	SW	SWITCH
GF	GROUND FAULT INTERRUPTER	SW BD	SWITCH BOARD
GRC	GALVANIZED RIGID METAL CONDUIT	SW OR	SWITCHGEAR
GND	GROUND	TB	TERMINAL BACKBOARD
HD	HEAVY DUTY	TELE	TELEPHONE
HH	HANDHOLE	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)	V	VOLTAGE
ID	INSIDE DIAMETER	V	VOLTS ALTERNATING CURRENT
IG	ISOLATED GROUND	VDC	VOLTS DIRECT CURRENT
IMC	INTERMEDIATE METAL CONDUIT	VENT	VENTILATION
J-BOX	JUNCTION BOX	W	WIRE
k	KILO (1000)	W/	WITH
kCMIL	KILO CIRCULAR MILS	WP	WEATHERPROOF
kV	KILO VOLTS	WT	WATERTIGHT
kVA	KILO VOLT - AMPERES	Z	ZONE
KW	KILO WATTS	'	FEET
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT	''	INCHES
LGT	LIGHTING		
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
	DATA OUTLET AND COVER PLATE, MOUNTED ON COLUMN OR POWER POLE,
	FLOOR BOX, ROUND WITH DUPLEX RECEPTACLE, TELEPHONE AND DATA OUTLET. FLOOR BOX COVER SHALL BE BRASS WITH HINGED COVERS FOR DEVICES. ("2D"= DUAL DATA OUTLET, "4D"= QUAD DATA OUTLET)
	CATV OUTLET SINGLE GANG BOX WITH 3/4" C TO AAF. VERIFY HEIGHT
	AUDIO SYSTEM SPEAKER. FURNISHED AND INSTALLED BY OTHERS.
	AUDIO VOLUME CONTROL. SINGLE GANG EMPTY OUTLET INSTALLED AT 46" AFF WITH 3/4" C TO AAF WITH DATA BUSHING.
	SECURITY CAMERA. PROVIDE ROUGH-IN OUTLET ONLY WITH 3/4" C TO SERVER ROOM IN DESIGNATED AREA ALLOCATED FOR CAMERA HEADEND EQUIPMENT.

**ELECTRICAL DESIGNATIONS**

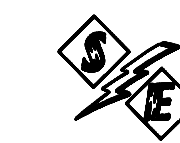
	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	FIXTURE NOTE	TYPE 'X' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	RECEPT NOTE	WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP)
	HOME RUN	HOMERUN (TYP) TO PANEL 'PPA'; CONNECT TO CIRCUIT NO.'S "5, 6, & 7" EX: 3#12 (PH), 1#12 (N) & 1#12 GND
	HOME RUN (ALTERNATE)	HOMERUN USING 2#8, 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:**

- "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR ONE LAMP OPERATIONAL AT ALL TIMES.
- ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
- 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
- UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.



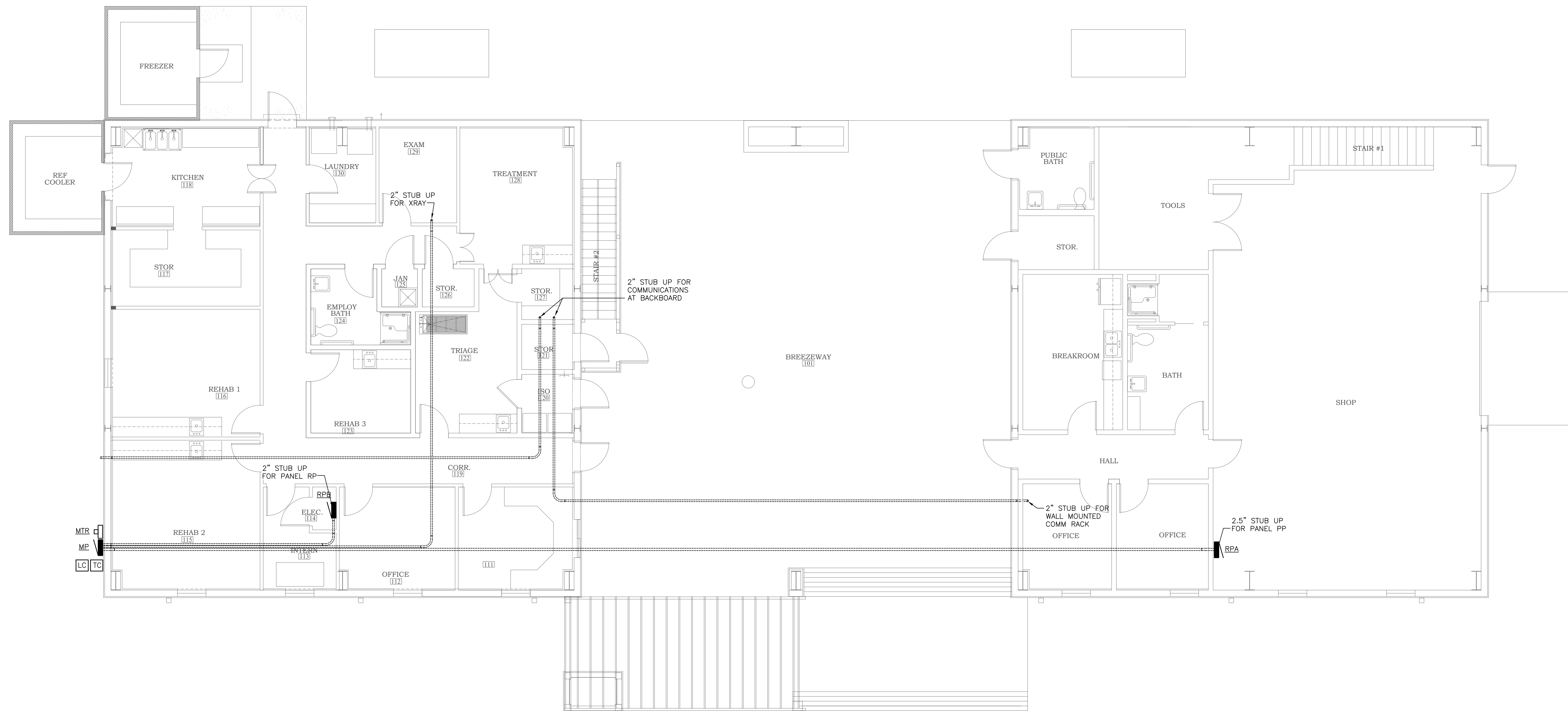
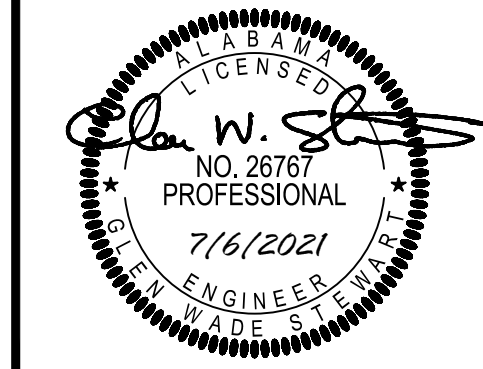




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PHASE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

1  
E1.1 POWER PLAN - FIRST FLOOR BASE BID  
SCALE: 3/16" = 1'-0"

**POWER & AUX. PHASE ONE:**

- 1. PIPING LAYOUT IS APPROXIMATE. COORDINATE WITH DIMENSIONED ARCHITECTURAL FLOOR PLANS FOR CONDUIT STUB UP LOCATIONS.
- 2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES WITH RESPECT TO ROUTING AND CLEARANCES. PROVIDING OFFSETS, DROPS, RISES, ETC. AS REQUIRED TO ACCOMMODATE.
- 3. CONTRACTOR TO INCLUDE FEEDER CONDUIT FROM MP TO AHU-1 BELOW GRADE AND STUB UP AT COORDINATED LOCATION

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

**E1.1**

POWER & AUX PLAN  
BASE BID

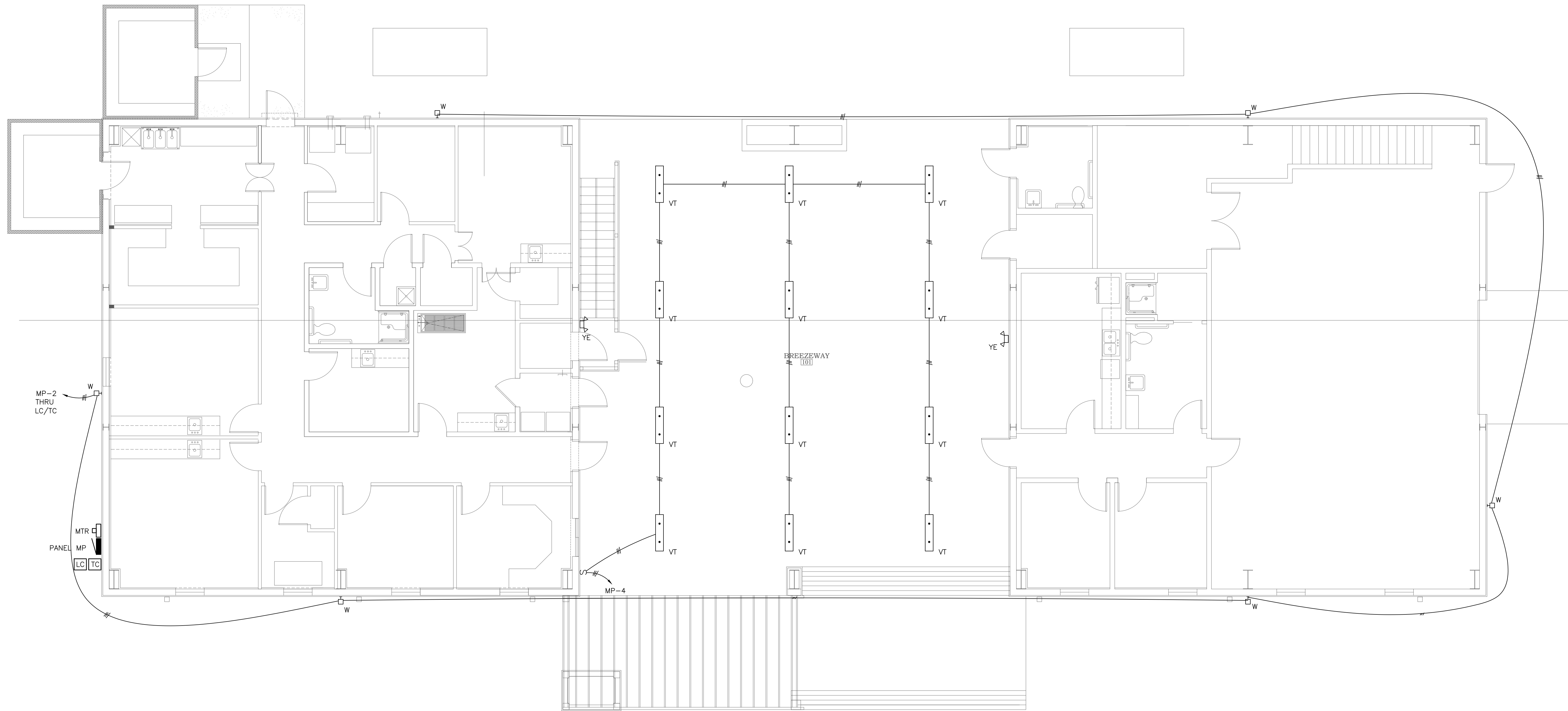
PHASE 1



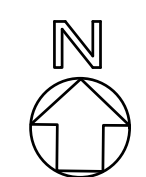
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PHASE 1 DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

 1 LIGHTING PLAN  
SCALE: 3/16" = 1'-0"

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

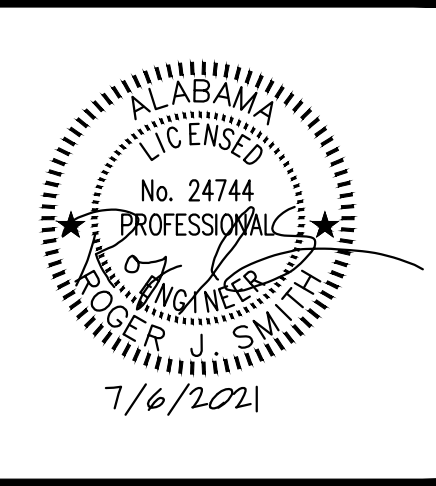
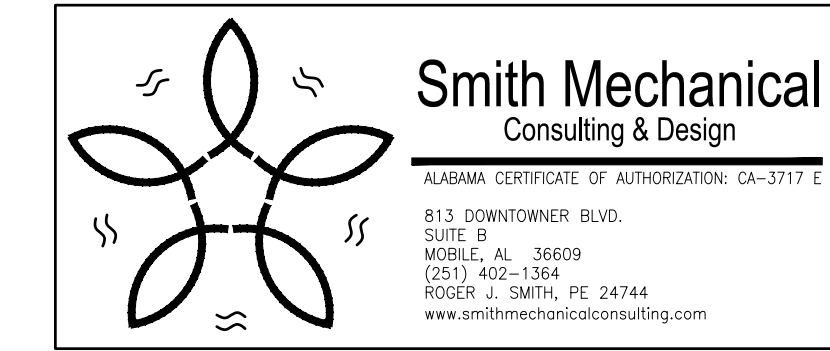
**E1.2**

LIGHTING PLAN

PHASE 1







**PLUMBING SYMBOL LEGEND**

- DCW PIPING
- DHW PIPING
- DHC PIPING
- SAN WASTE PIPING
- V VENT PIPING
- G GAS PIPING
- TP TRAP PRIMER PIPING
- PIPE TURNING UP
- PIPE TURNING DOWN
- BALL VALVE
- ◇ GATE VALVE
- ⋈ CHECK VALVE
- ⚡ TEMP/PRESSURE RELIEF VALVE
- ⊥ GAS COCK
- ⊕ UNION
- CLEANOUT
- ⊕ FD FLOOR DRAIN
- ⊕ FS FLOOR SINK
- ⊕ HOSE BIBB
- ⊕ WHA WATER HAMMER ARRESTOR TYPE "A" (TYP)

**PLUMBING ABBREVIATIONS**

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.  
REFER TO HVAC DRAWINGS FOR HVAC EQUIPMENT ABBREVIATIONS.

- AFF ABOVE FINISHED FLOOR
- AUX AUXILIARY
- CEIL CEILING
- CIRC CIRCULATING
- CO CLEANOUT
- CW COLD WATER
- DCW DOMESTIC COLD WATER
- DHC DOMESTIC HOT CIRCULATED
- DHW DOMESTIC HOT WATER
- DIA DIAMETER
- DST DEEP SEAL TRAP
- EQUIP EQUIPMENT
- EWC ELECTRIC WATER COOLER
- EWL ELECTRIC WATER HEATER
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FIXT FIXTURE
- GWH GAS WATER HEATER
- HB HOSE BIBB
- HR HOUR
- HW HOT WATER
- HWR HOT WATER RETURN
- MAX MAXIMUM
- MECH MECHANICAL
- MIN MINIMUM
- MTR METER
- NIC NOT IN CONTRACT
- PENE PENETRATION
- RM ROOM
- SAN SANITARY
- SURF SURFACE
- SYS SYSTEM
- T & P TEMPERATURE & PRESSURE
- TEMP TEMPERATURE
- TP TRAP PRIMER
- TYP TYPICAL
- VTR VENT TO ROOF
- WCO WALL CLEANOUT
- WET WET PIPING
- WH WALL HYDRANT
- WHA WATER HAMMER ARRESTOR
- W/ WITH
- YCO YARD CLEANOUT

PLUMBING FIXTURE SCHEDULE (FOR REFERENCE ONLY – NOT INCLUDED THIS PHASE)	
ID	DESCRIPTION
CB-1	ICE MAKER WATER CONNECTION. USE SIOUX CHIEF ICE MAKER OUTLET BOX WITH MINIRESTER 696 SERIES WITH 1/2" PEX CONNECTION; MOUNT @ 48" U.N.O. FURNISH FLEXIBLE CONNECTION FROM OUTLET BOX TO WALL MOUNTED WATER FILTER WITH FLEXIBLE CONNECTION TO APPLIANCE. WATER FILTER SHALL BE EQUAL TO WHIRLPOOL WHKF-DWHV OR EQUAL. FURNISH WITH ONE EXTRA FILTER. VERIFY WITH OWNER/CONTRACTOR. APPLIANCES FURNISHED BY OTHERS.
EWC-1	EWC-1, ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED WITH BOTTLE FILLER ELKAY LZSTLBSVRSK OR EQUAL WITH BOTTLE FILLER/FOUNTAIN ON LEFT AT ADA LEVEL; MCGUIRE 8902 TRAP; BRASSCRAFT 1912-A SUPPLY. MOUNT WITH LOWER SPOUT AT 36" AFF. CONNECTIONS: CW 1/2", WASTE 2", VENT 2" MIN.
FD-1	FLOOR DRAIN, J.R. SMITH 2005/2010 SERIES COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER AND GREEN DRAIN TRAP SEAL.
HB-1	HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".
MS-1	MOP BASIN – ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.
SH-1	SHOWER, ARRAY ADA3636, W/ CENTER DRAIN AS DESIGNATED IN PLAN DWGS, SHOWER, SOLID-SURFACE, SMOOTH SHOWER, SOAP HOLDER, GRAB BARS, FOLDING SEAT, ZURN Z7301-SS-WT-DV2P-HW-H7-S8 TEMP-GARD III SHOWER UNIT KIT WITH SINGLE HANDLE PRESSURE BALANCING & MIXING UNIT, 1.5 GPM SHOWER HEAD, FLEX METAL HOSE, INLINE VACUUM BREAKER, WALL CONNECTION, FLANGE AND WALL HOOK FOR HAND SHOWER, PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH ARM AND FLANGE. CONNECTIONS: CW 1/2", HW 1/2" TEMPERATURE LIMITING TO 110°F, WASTE 2", VENT 1-1/2" MIN.
SK-1	KITCHEN SINK, ELKAY CR3322, 20 GAUGE, STAINLESS STEEL, DOUBLE BOWL, 7" DEPTH, DROP IN TYPE, FURNISH WITH ELKAY LKD2437BHC GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SANI CONNECTION, NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. INCLUDE 1/4" FLEXIBLE SUPPLY CONNECTION TO REFRIGERATOR ICE MAKER UNIT. ROUTE TUBING CONCEALED IN BASE CABINET. STRAP TUBING TO REAR OF CABINET. EXISTING CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
SK-3	3 COMPARTMENT SINK – PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
WC-1H	WC-1H WATER CLOSET, ZURN SERIES Z5660, FLOOR MOUNTED, ELONGATED WATER CLOSET, ZURN Z6000AV-WS1 (1.6 gpf) FLUSH VALVE W/ SPLIT RING PIPE SUPPORT, & ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1", WASTE 3", VENT 2" MIN.
FS-1	FLOOR SINK, MIFAB FS1520-FLC-3-P, 8" SQUARE, 6" DEEP, CAST IRON, A.R.E. INTERIOR ALUMINUM DOME STRAINER, STAINLESS STEEL TOP W/CLAMPING DEVICE. FURNISH WITH PRO-SET TRAP SEAL. COORDINATE EXACT LOCATION OF DRAIN WITH ARCHITECTURAL PLANS SO AS TO CENTER FLOOR DRAIN CENTER OF TILE. FLOOR SHALL BE SLOPED TOWARD DRAIN.
HS-1	HAND SINK, ELKAY CR1721, 20 GAUGE, STAINLESS STEEL, SINGLE BOWL, DROP IN TYPE, FURNISH WITH ELKAY LKB00GN05T4 GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SAN CONNECTION, NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
LV-1H	ZURN Z5840 SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; ZURN Z81104-XL FAUCET WITH LEVER HANDLES, ZURN Z8800 SUPPLIES; ZURN Z8700 TRAP; Z8746-PC ADA GRID STRAINER; ZURN Z8946-3-NT ADA PROTECTORS, ASSE 1070 APPROVED TEMPERATURE LIMITING VALVE SET TO 110°F, ZURN Z1231 CONCEALED ARM CARRIER, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.
MV-1	MIXING VALVE, EQUAL TO SYMMONS, 0.5 GPM MINIMUM, 5.5 GPM MAXIMUM @ 10 PSI PRESSURE DROP

**GENERAL PLUMBING NOTES:**

- COMPLY WITH 2018 INTERNATIONAL MECHANICAL & PLUMBING CODE, NFPA, STATE AND LOCAL CODES.
- PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- 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.
- PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES, AND DIMENSIONS.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- ALL COMPONENTS USED IN PLENUM SPACES MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY FIRESTOPPED.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:  
A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER OR PEX.  
B. LINES ABOVE GRADE SHALL BE TYPE "L" HARD COPPER.  
C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.  
D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.  
E. EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL FLOOR DRAINS SHALL BE EQUIPPED WITH TRAP PRIMER. LOCATE TRAP PRIMER EQUIPMENT CONCEALED IN ACCESSIBLE LOCATION.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 180 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, 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 MECHANICAL CONTRACTOR'S EXPENSE.

**FIXTURE CONNECTION NOTES:**

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- PROVIDE PVC (SCH 80) P-TRAPS FOR UNDER FLOOR DRAINS.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MAXIMUM OF 0.5 GPM AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.

PHASE 1 DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: RJS  
 CHECKED: RJS  
 DATE: 2021.07.06  
 REVISION:

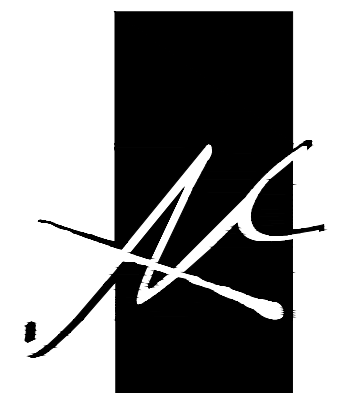
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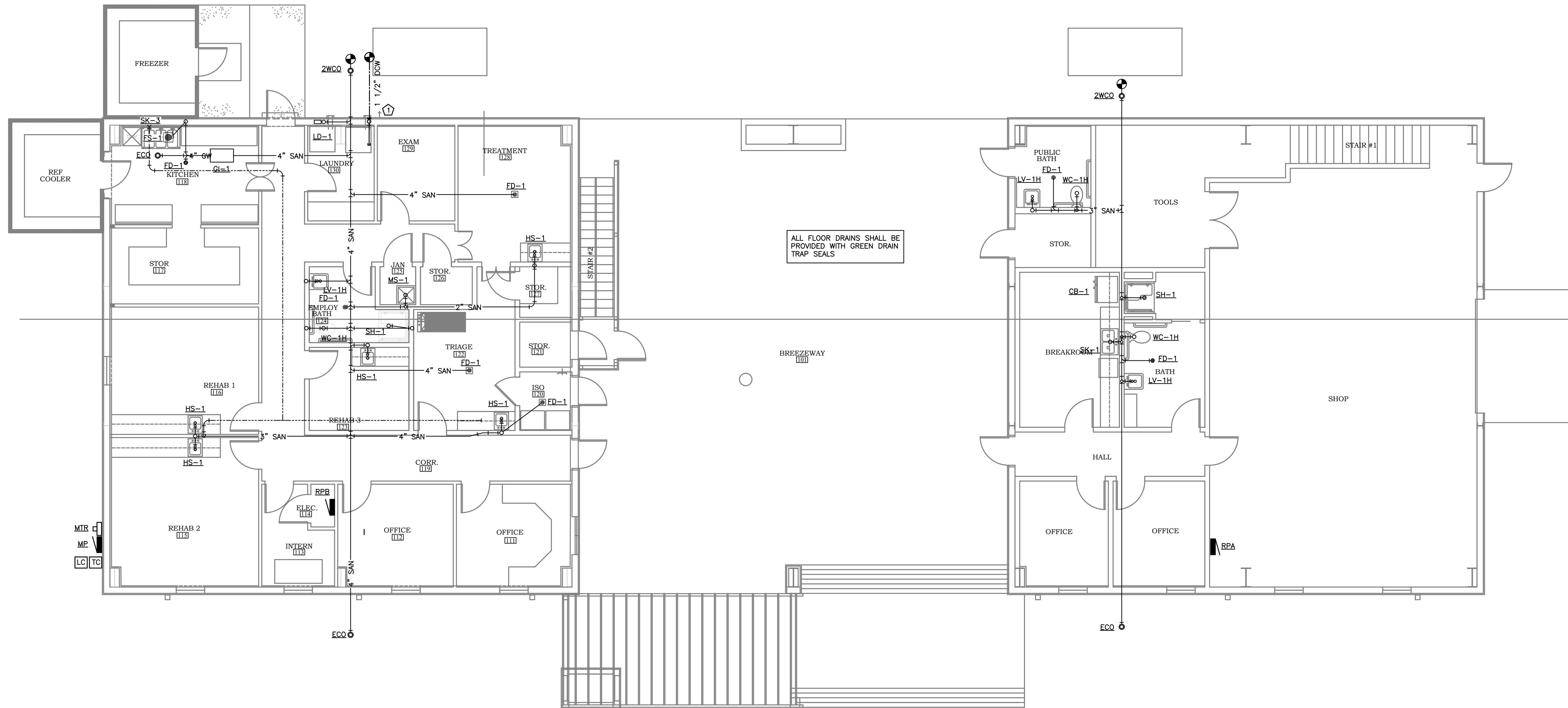
**P1.0**

PLUMBING NOTES,  
 SCHEDULES AND LEGEND





**McCULLOUGH**  
**ARCHITECTURE, INC.**  
P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



ALL FLOOR DRAINS SHALL BE PROVIDED WITH GREEN DRAIN TRAP SEALS

**KEY NOTES (THIS SHEET ONLY)**

- 1 PROVIDE ISOLATION SHUT OFF VALVE IN RISER AT 24" A.F.F. PROVIDE ACCESS DOOR IN WALL AT VALVE AND TURN UP INSIDE EXTERIOR WALL. ROUTE UP INTO CEILING SPACE AND CAP FOR FUTURE EXTENSION IN PHASE 1 ALT. 1 AND PHASE 2.

NOTE: PHASE ONE CONSISTS OF THE UNDERSLAB SANITARY WASTE PIPING ONLY. TOP OUT AND ABOVE SLAB DOMESTIC WATER WILL BE PROVIDED UNDER PHASE 1, ALTERNATE 1 AND PHASE 2 DRAWINGS. FIXTURES SHOWN IN THIS SHEET ARE FOR CLARITY ONLY.

**PLUMBING PLAN**  
SCALE: 3/16" = 1'-0"

**PHASE 1 DRAWINGS FOR**  
**ORANGE BEACH**  
**TRAIL SHOP / WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

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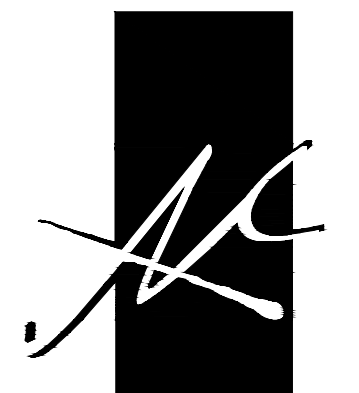
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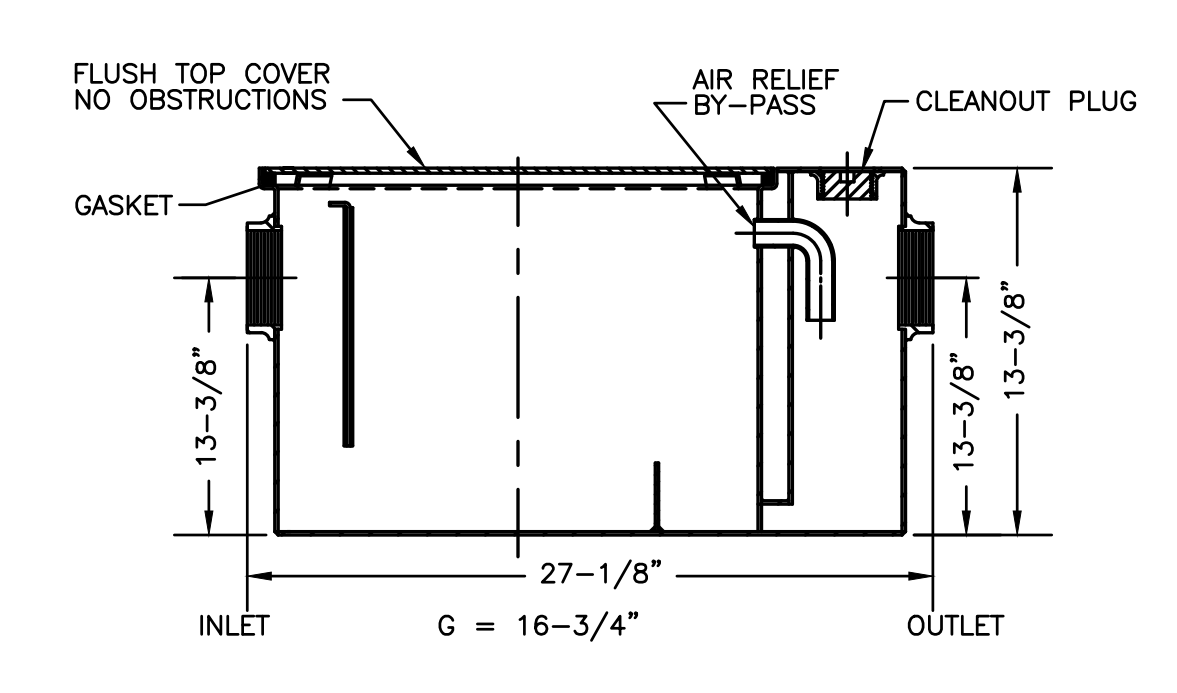
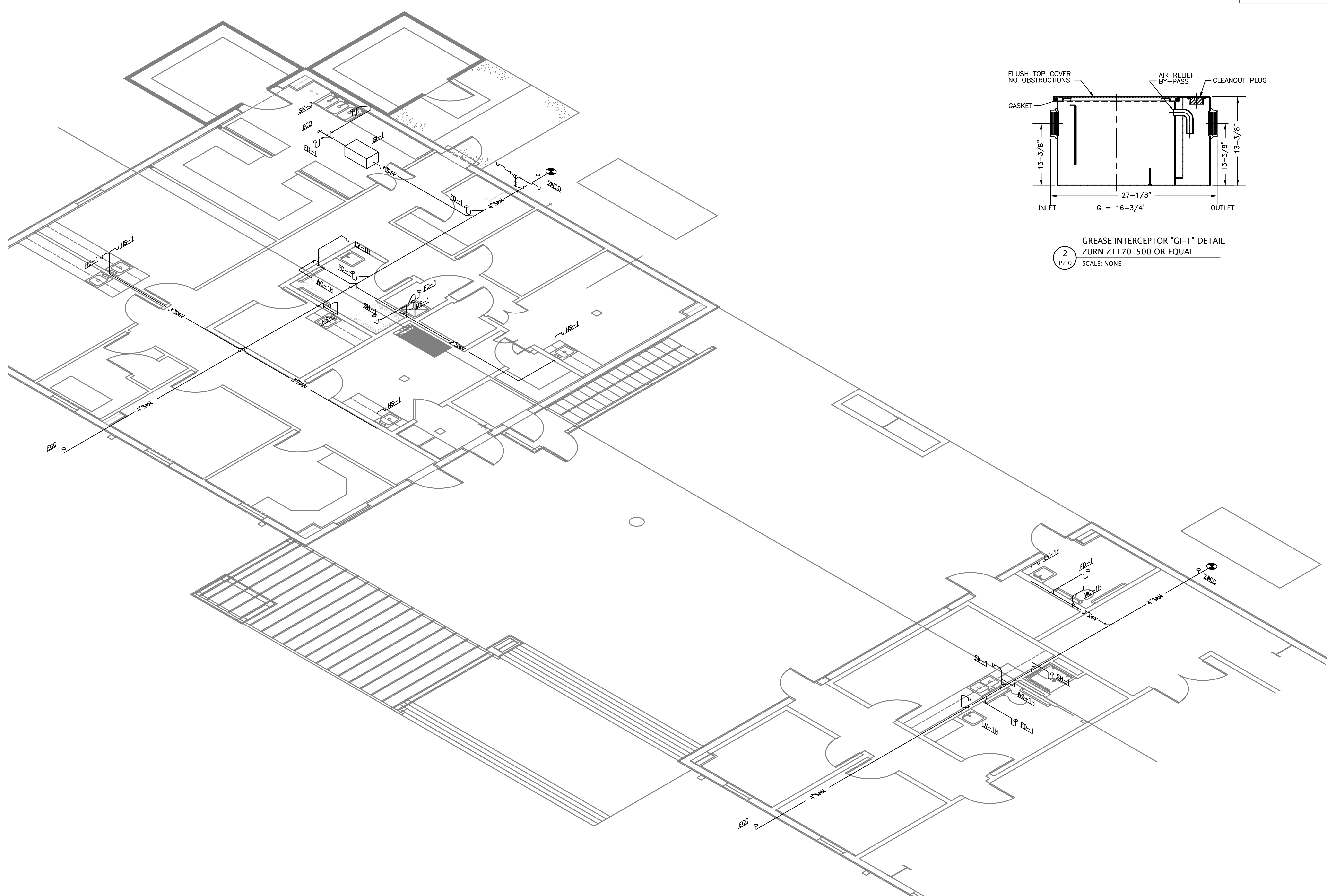
**P1.1**

PLUMBING PLAN

**PHASE 1**



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GREASE INTERCEPTOR "GI-1" DETAIL  
ZURN Z1170-500 OR EQUAL  
SCALE: NONE

1 SANITARY WASTE RISER  
SCALE: NONE

PHASE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP / WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

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SCALE: AS SHOWN

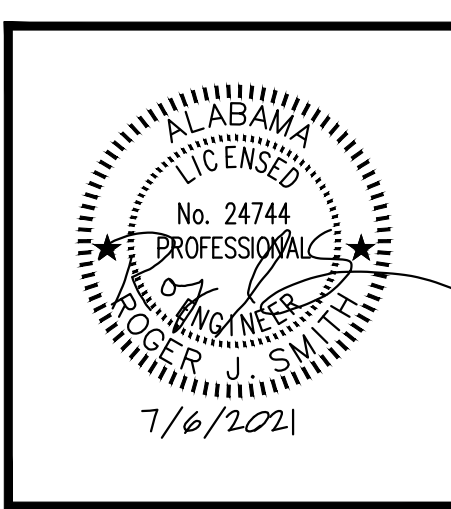
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P2.0

SANITARY WASTE RISERS

PHASE 1





PHASE 1 ALTERNATE 1 DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: RJS  
 CHECKED: RJS  
 DATE: 2021.07.06  
 REVISION:  
 SCALE: AS SHOWN  
 SHEET NO.:  
**M1.0**  
 HVAC LEGEND, NOTES, AND SCHEDULES

**HVAC SYMBOL LEGEND**

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ELBOW W/ TURNING VANES
- SPLITTER
- BALANCING DAMPER
- FIRE DAMPER - VERTICAL
- FIRE DAMPER - HORIZONTAL
- MOTORIZED DAMPER
- THERMOSTAT
- WALL CAP
- EXHAUST FAN
- FLEX DUCT
- DUCT TURNING UP/DOWN
- UNDERCUT DOOR 1" MIN.
- SUPPLY AIR
- DOOR GRILLE, SIGHT-PROOF
- EXHAUST AIR
- SMOKE DAMPER
- BACK DRAFT DAMPER

**HVAC ABBREVIATIONS**

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- AUX AUXILIARY
- BDD BACK DRAFT DAMPER
- BRD BAROMETRIC RELIEF DAMPER
- CEIL CEILING
- COND CONDENSATE
- DIA DIAMETER
- EAT ENTERING AIR TEMPERATURE
- EF ROOM EXHAUST FAN
- EQUIP EQUIPMENT
- FD FIRE DAMPER
- FURN FURNACE
- GA GAUGE
- GRH GAS RADIANT HEATER
- GUH GAS UNIT HEATER
- HP HEAT PUMP
- HR HOUR
- MAX MAXIMUM
- MCA MINIMUM CIRCUIT AMPACITY
- MD MOTORIZED DAMPER
- MECH MECHANICAL
- MFR MANUFACTURER
- MIN MINIMUM
- MOCPP MAXIMUM OVERCURRENT PROTECTION
- NIC NOT IN CONTRACT
- OA OUTSIDE AIR
- PENE PENETRATION
- PTAC PACKAGED TERMINAL AIR CONDITIONER
- RA RETURN AIR
- RM ROOM
- REG REGISTER
- RND ROUND
- RTU ROOFTOP UNIT
- SYS SYSTEM
- TEMP TEMPERATURE
- TSTAT THERMOSTAT
- TYP TYPICAL
- VEL VELOCITY
- VF VENTILATION FAN
- W/ WITH

SPLIT SYSTEM HEAT PUMP SCHEDULE (PHASE 1 ALTERNATE 1)																					
MARK NO.	AREA SERVED	TONS	TOTAL CFM	O.A. (CFM)	MIN EFFICIENCY		COOLING CAPACITY		HEATING CAPACITY		INDOOR UNIT					OUTDOOR UNIT				NOTES	
					HSPF	SEER	TOTAL MBH	SENS. MBH	CAPACITY MBH	AUX. HEAT KW	VOLT PHASE	HP	E.S.P.	MCA	MOCPP	VOLT PHASE	MCA	MOCPP	WEIGHT (LBS)		
AHU-1	HP-1	OFFICES & BREAKROOM	2	800	100	8.2	14	24.2	17	8	5	240/1	1/2	0.5	28	30	240/1	16	25	275	ALL

- NOTES:
1. BASIS OF DESIGN CARRIER FX4D FAN COIL WITH 25HNB6 2-STAGE HEAT PUMP (COASTAL APPLICATIONS)
  2. FURNISH WITH PROGRAMMABLE THERMOSTAT WITH REMOTE BULB SENSOR AT AHU RETURN.
  3. FURNISH WITH LOW AMBIENT CONTROLS.
  4. FURNISH WITH ANTI-SHORT CYCLE TIMER.
  5. FURNISH WITH EVAPORATOR DEFROST CONTROL.
  6. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.
  7. FASTEN OUTDOOR UNITS TO HOUSEKEEPING PAD.

AIR TERMINAL DEVICE SCHEDULE						
MARK	DESCRIPTION	MFGR	MODEL	MATERIAL	NECK	NOTES
CDA	DIFFUSER, LAY-IN, LOUVERED FACE	TITUS	TDC-AA	ALUM.	ROUND	1,2,3
CGA	CLG RETURN AIR GRILLE - GRID CLG	TITUS	50FF	ALUM.	ROUND	1,2,3
CGB	CLG RETURN AIR GRILLE - GYP CLG	TITUS	55FL	ALUM.	RECTANGULAR	1,2,3
CGC	CLG SUPPLY REGISTER	TITUS	112RL	ALUM.	RECTANGULAR	1,2,3
WGA	WALL SUPPLY GRILLE	TITUS	300FL	ALUM.	RECTANGULAR	1,2,3
WGB	WALL RETURN GRILLE	TITUS	55FL	ALUM.	RECTANGULAR	1,2,3
WLA	OUTDOOR AIR LOUVER	RUSKIN	ELF811DD	ALUM.	RECTANGULAR	1,2,4,5,6

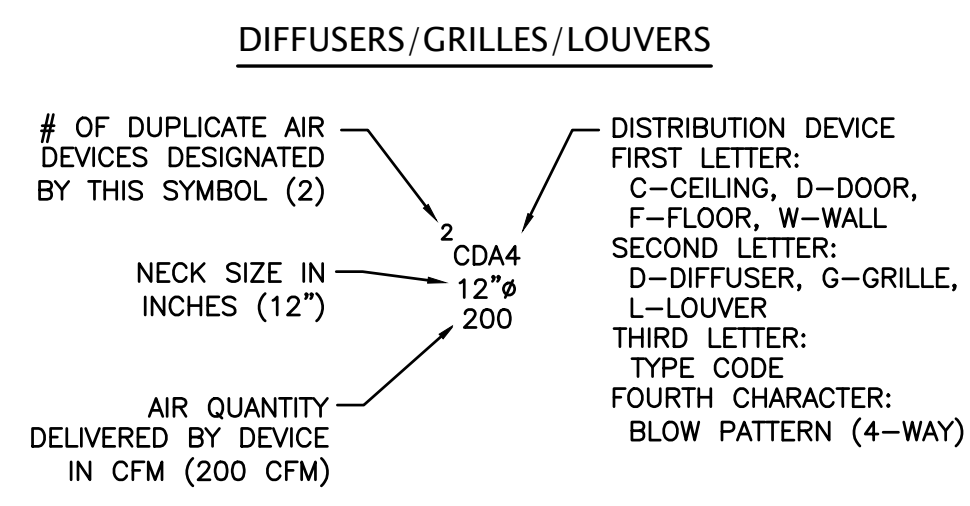
- NOTES:
1. BASIS OF DESIGN
  2. FINISH SHALL BE VERIFIED W/ARCHITECT
  3. PROVIDE W/ MFR'S PLASTER FRAME OF SAME MATERIAL.
  4. FRAME DEPTH TO COORDINATE WITH EXTERIOR WALL.
  5. FURNISHED WITH INSECT SCREEN.
  6. STATIONARY EXTRUDED ALUMINUM DOUBLE-DRAINABLE 4" DEEP FRAME WITH BIRD SCREEN
  7. COORDINATE INSTALLATION AND WATERPROOFING WITH GEN. CONTRACTOR.
  - 8.

FAN PERFORMANCE DATA									
TAG	SERVICE	CFM	SONES	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
				POWER	E.S.P.	VOLTAGE	MFGR	MODEL	
EF-1	BATH 108	70	1.3	21	0.25	120/1	GREENHECK	SP-B90	ALL
EF-2	BATH 106	90	3.0	80	0.25	120/1	GREENHECK	SP-B110	ALL

- EQUIPMENT NOTES:
- MFGR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFGR, MODEL AND PERFORMANCE DATA.
1. INTEGRAL DISCONNECT
  2. VIBRATION ISOLATION KIT
  3. INTEGRAL BACKDRAFT KIT
  4. FAN SPEED CONTROL
  5. INTERLOCK WITH LIGHTING
  6. ALUMINUM CEILING GRILL

Zone Name / Space Name	Floor		Required		Corrected		Required	
	Area (ft <sup>2</sup> )	Maximum Occupants	Outdoor Air (CFM/person)	Outdoor Air (CFM/ft <sup>2</sup> )	Outdoor Air (CFM)	Exhaust Air (CFM)	Exhaust Air (CFM)	
102 OFFICE	104	1	5	0.06	11	-	-	
103 OFFICE	104	1	5	0.06	11	-	-	
104 HALL	94	0	0	0.06	6	-	-	
105 BREAKROOM	180	3	5	0.06	26	-	-	
106 BATHROOM	139	0	0	0	-	90	90	
107 STORAGE	45	0	0	0.12	5	-	-	
108 PUBLIC BATH	70	0	0	0	-	-	-	
109 TOOLS	173	0	0	0.12	21	-	-	
Totals					80		90	

VENTILATION NOTE: EXCEEDING MINIMUM TO ACCOUNT FOR EXHAUST AIR



**GENERAL HVAC NOTES**

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE AND 2018 INTERNATIONAL ENERGY CONSERVATION CODE.
2. FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
3. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
4. MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
5. MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
6. DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR ARE TO BE MADE OF CONTINUOUS SHEET METAL.
7. DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATION CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCT TYPE SHALL BE APPROVED BY APPLICABLE CODE AND MECHANICAL ENGINEER.
8. ALL RETURN AIR, AND SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. LINED DUCTWORK DOES NOT REQUIRE EXTERIOR INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, INSTALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND DUCTWORK IN CONDITIONED SPACE DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED.
9. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
10. ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
11. FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 10'-0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
12. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM TO INCLUDE: PANELS, MODULES, RELAYS, WIRING, THERMOSTATS, SENSORS, DAMPERS, ACTUATORS AND ALL MISCELLANEOUS ITEMS AS REQUIRED TO FULFILL THE DESIGN INTENT AS INDICATED ON THE PLANS AND IN THE CODED NOTES.
13. ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
14. ALL LOW VOLTAGE WIRING AND CONDUIT REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
15. SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
16. CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
17. TEST & BALANCE ALL SUPPLY & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS.
18. ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR UNITS.

**SEQUENCE OF OPERATION**

**OCCUPIED MODE**

AHU SHALL RUN IN AUTO MODE WITH HEAT PUMP UNIT CYCLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE IN COOL OR HEAT MODE. SETPOINT FOR COOLING SHALL BE 75°F ADJUSTABLE AND HEATING SHALL BE 70°F ADJUSTABLE.

A CALL FOR COOLING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE AIR HANDLER

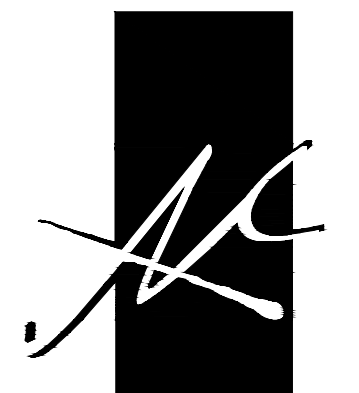
**HEATING**

A CALL FOR HEATING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE AIR HANDLER AND REFRIGERATION CIRCUITS IN STAGES IN REVERSE MODE AS DICTATED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS. THE AIR HANDLER AND ALL REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

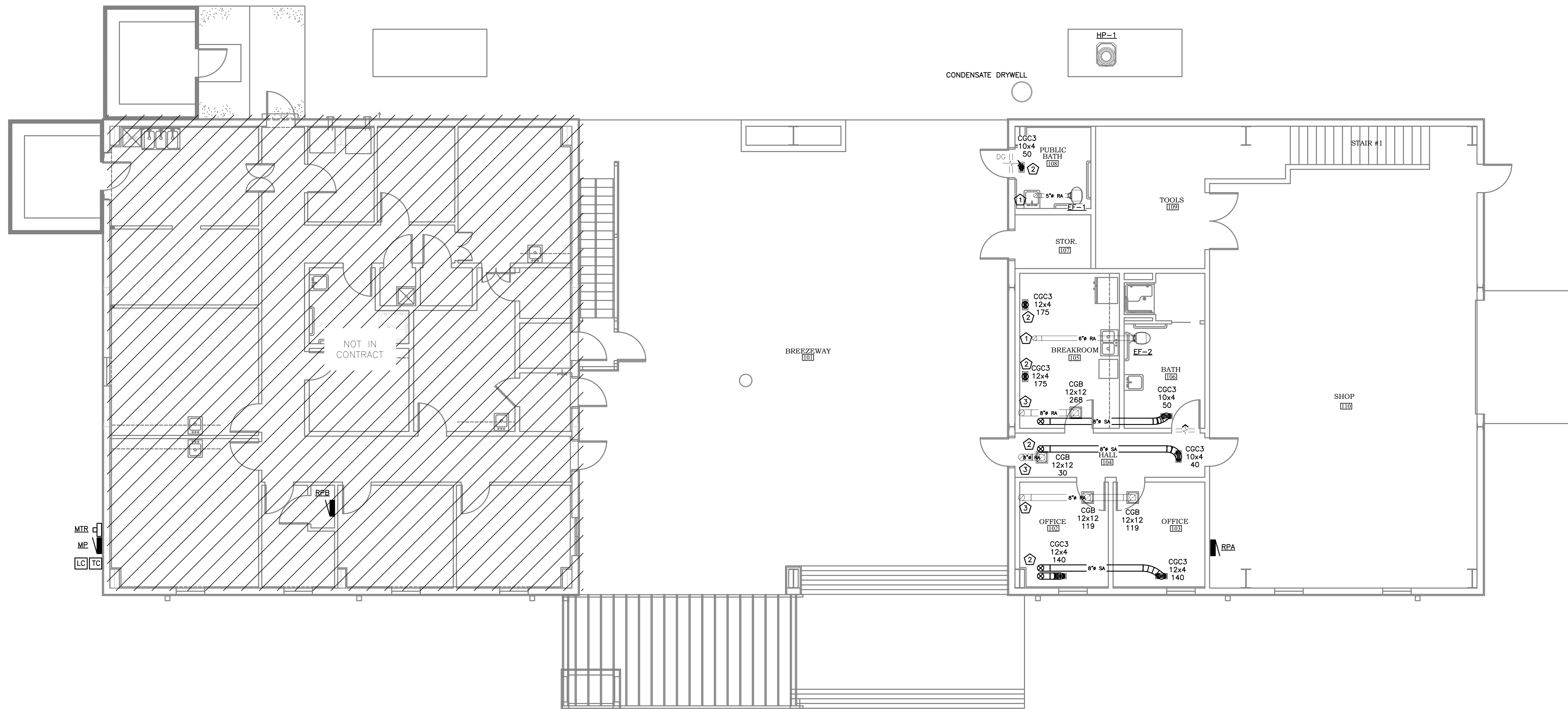
IF THE SPACE HEATING REQUIREMENTS CAN NOT BE MET USING THE REVERSE CYCLE ALONE, THE ELECTRIC HEATER WILL BE ENERGIZED IN STAGES AND CONTROLLED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS TO PROVIDE SUPPLEMENTAL HEAT. THE ELECTRIC HEATER AND THE REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

**UNOCCUPIED MODE**

AHU AND HEAT PUMP SHALL CYCLE AS REQUIRED TO MAINTAIN SETPOINT. TEMPERATURE SETPOINT FOR COOLING SHALL BE 80°F. SETPOINT FOR HEATING SHALL BE 65°F. BOTH COOLING AND HEATING SETPOINTS SHALL BE ADJUSTABLE.



McCULLOUGH ARCHITECTURE, INC.  
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PHONE: 251-968-7222



N  
1  
M1.1  
HVAC PLAN- FIRST FLOOR  
SCALE: 3/16" = 1'-0"

KEY NOTES (THIS SHEET ONLY)

- ① EXHAUST DUCT UP FOR CONNECTION TO EXHAUST TRUNK DUCT
- ② SUPPLY BRANCH DUCT UP FOR CONNECTION TO SUPPLY TRUNK DUCT
- ③ RETURN BRANCH DUCT UP FOR CONNECTION TO RETURN TRUNK DUCT

PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH ALABAMA

JOB NO.:  
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REVISION:

SCALE: AS SHOWN

SHEET NO.:

M1.1

HVAC PLAN  
FIRST FLOOR





FAN PERFORMANCE DATA								
TAG	SERVICE	CFM	SONES	ELECTRICAL DATA			BASIS OF DESIGN	NOTES
				POWER	E.S.P.	VOLTAGE		
VF 1	WORK SHOP	2500	28	3/4 HP	0.5	208/1	AER-E20C-415-A	ALL

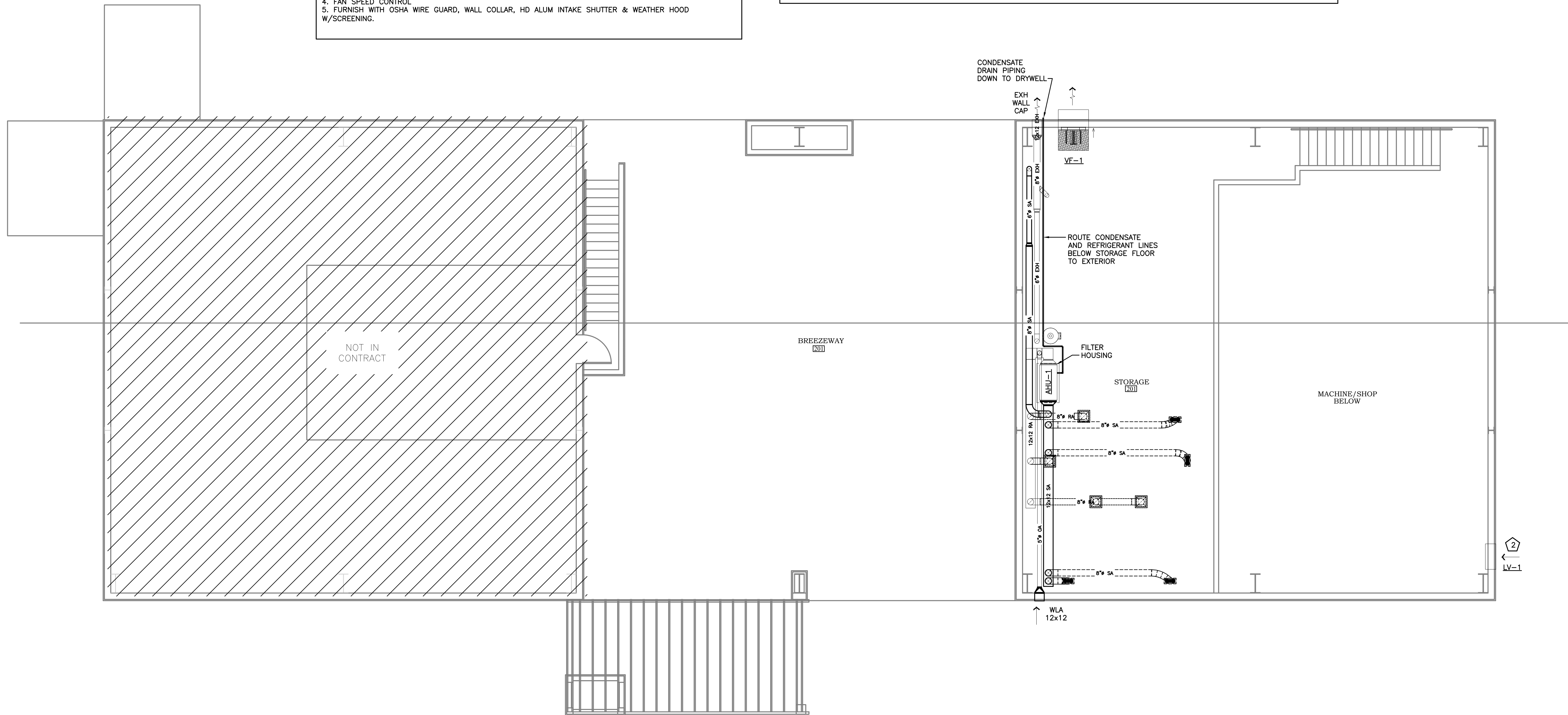
EQUIPMENT NOTES:  
MFGR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFGR, MODEL AND PERFORMANCE DATA.

1. INTEGRAL DISCONNECT
2. VIBRATION ISOLATION KIT
3. INTEGRAL BACKDRAFT KIT
4. FAN SPEED CONTROL
5. FURNISH WITH OSHA WIRE GUARD, WALL COLLAR, HD ALUM INTAKE SHUTTER & WEATHER HOOD W/SCREENING.

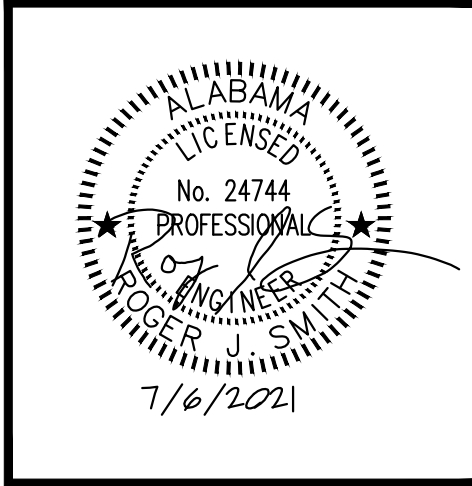
LOUVER SCHEDULE												
TAG	DESCRIPTION	MFGR	MODEL	CFM	SIZE		FREE AREA	DAMPER				NOTES
					W	H		HP	VOLT	PHASE	MODEL	
LV-1	INTAKE	GREENHECK	EHV-550D-32x32	2500	32	32	45%	-	-	-	-	ALL

EQUIPMENT NOTES:  
MFGR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFGR, MODEL AND PERFORMANCE DATA.

1. DRAINABLE COMBINATION LOUVER WITH GRAVITY BACKDRAFT DAMPER
2. LOUVERS PRIMED FOR FIELD PAINTING
3. FURNISH WITH BIRD/INSECT SCREEN
4. COORDINATE LOCATION WITH BLDG ELEVATIONS AND GENERAL CONTRACTOR



HVAC PLAN- SECOND FLOOR  
SCALE: 3/16" = 1'-0"



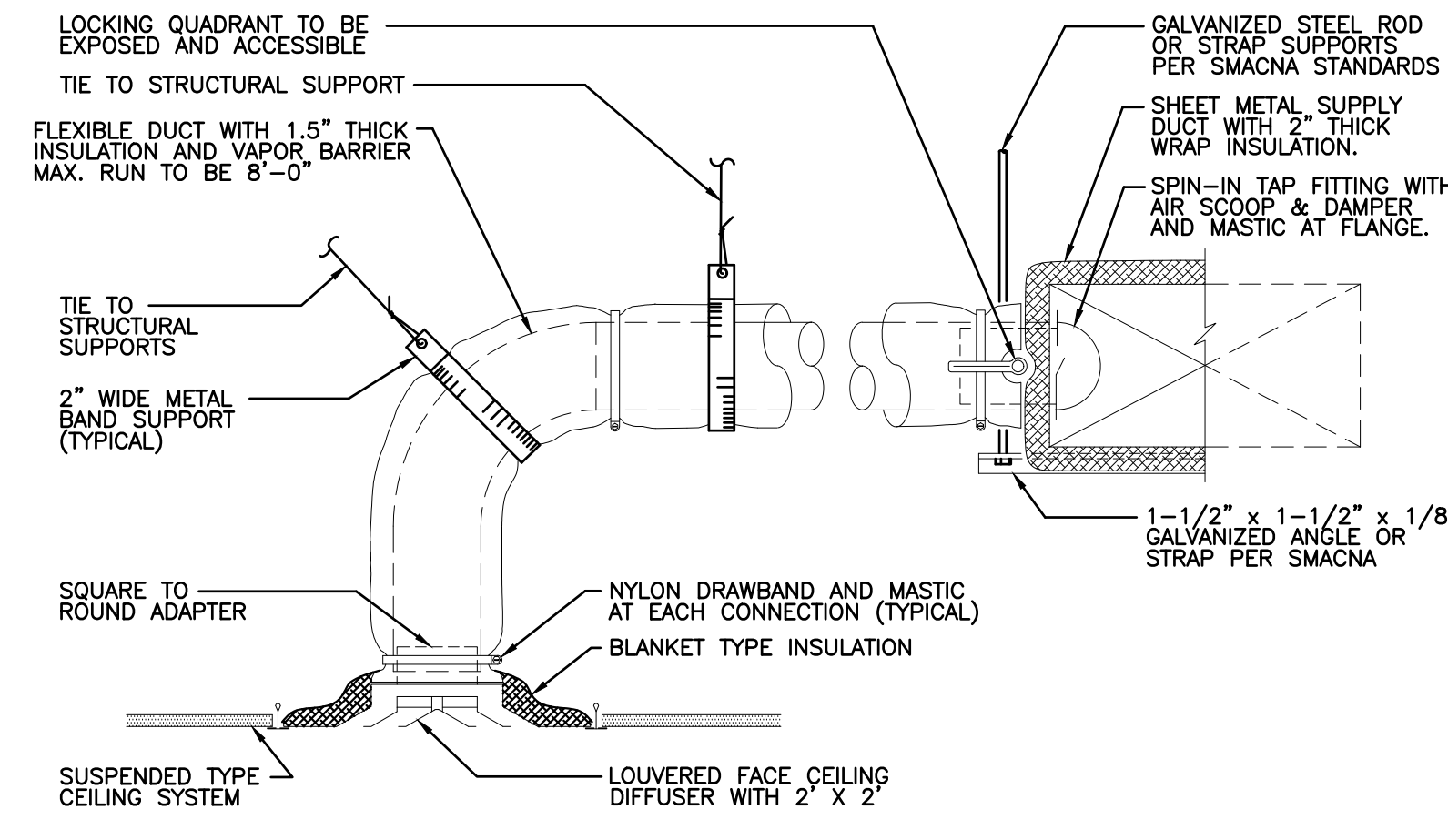
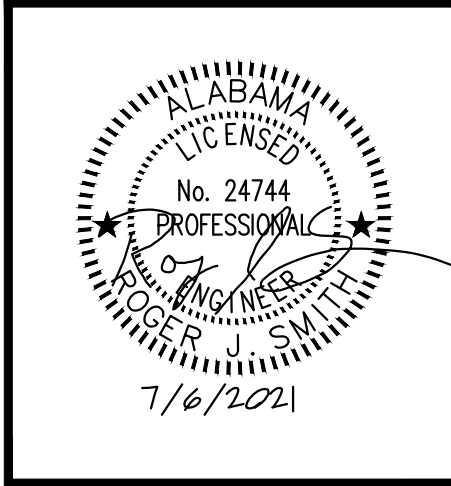
PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP**  
ORANGE BEACH  
ALABAMA

JOB NO.:  
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SCALE: AS SHOWN

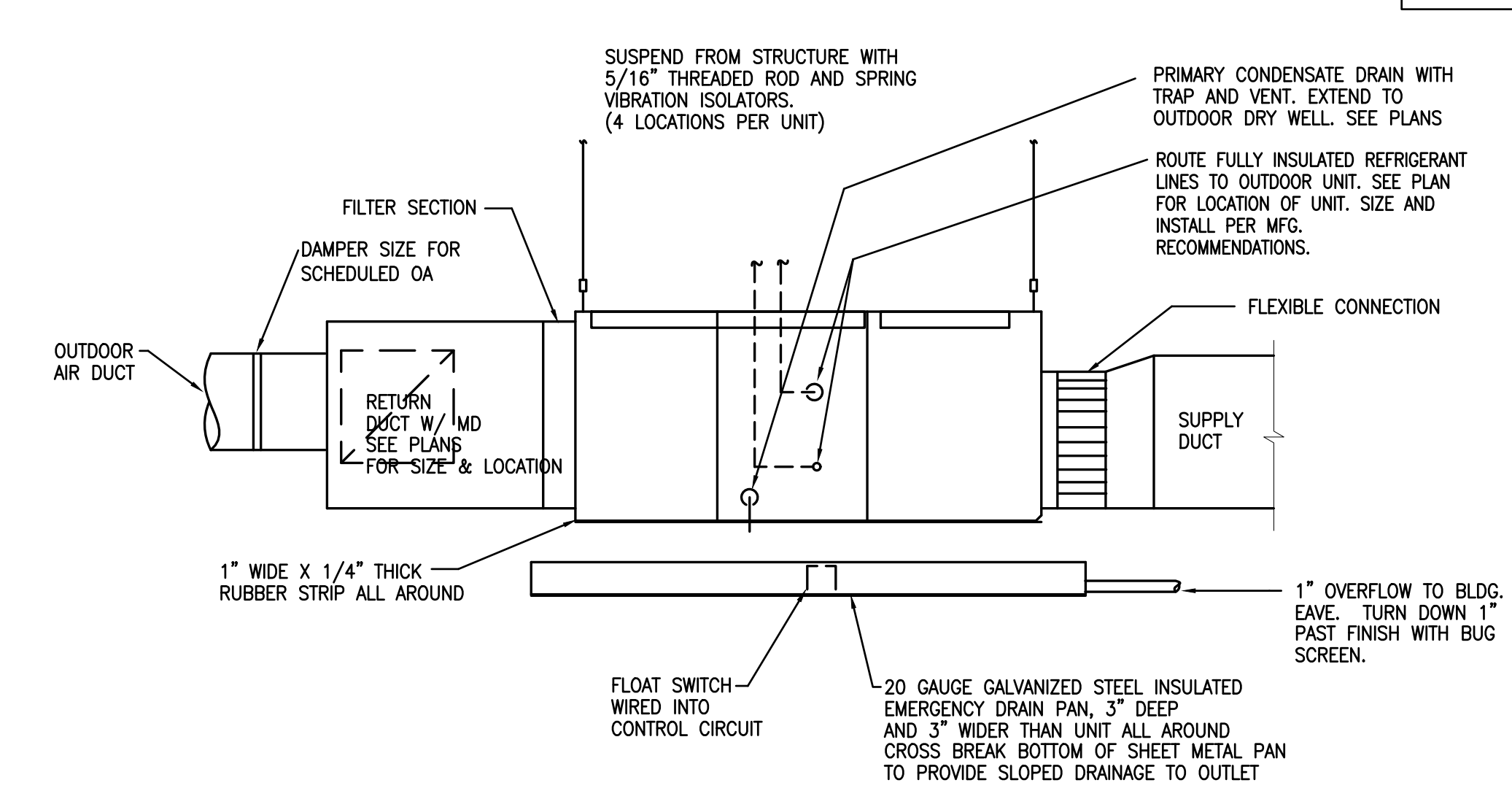
SHEET NO.:

**M1.2**  
HVAC PLAN  
SECOND FLOOR

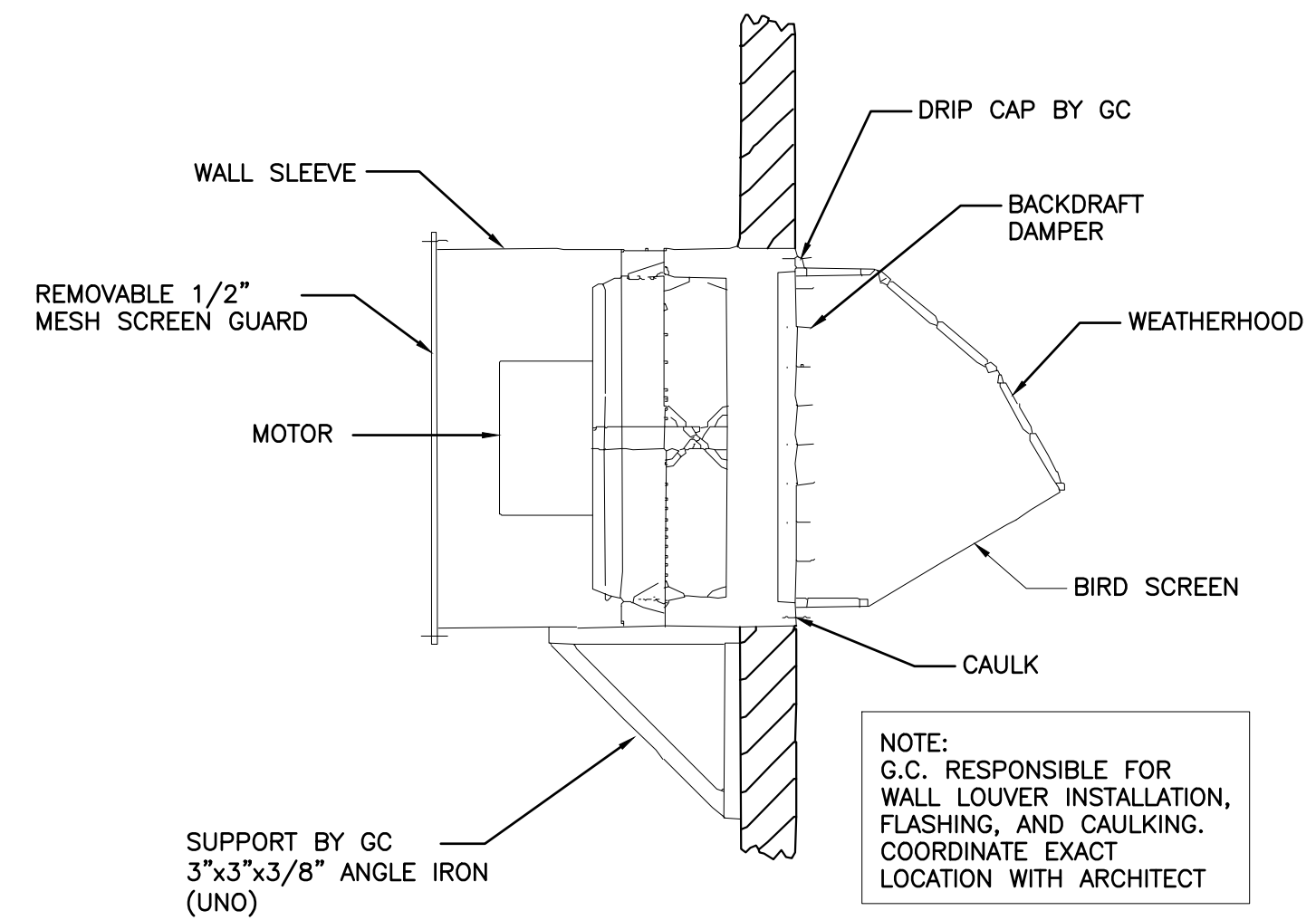


NOTE: FOR BRANCH DUCT CONNECTIONS IN EXCESS OF 8'-0" PROVIDE RIGID ROUND DUCT TO WITHIN 6'-0" OF DIFFUSER AND CONNECT WITH FLEXIBLE DUCT.

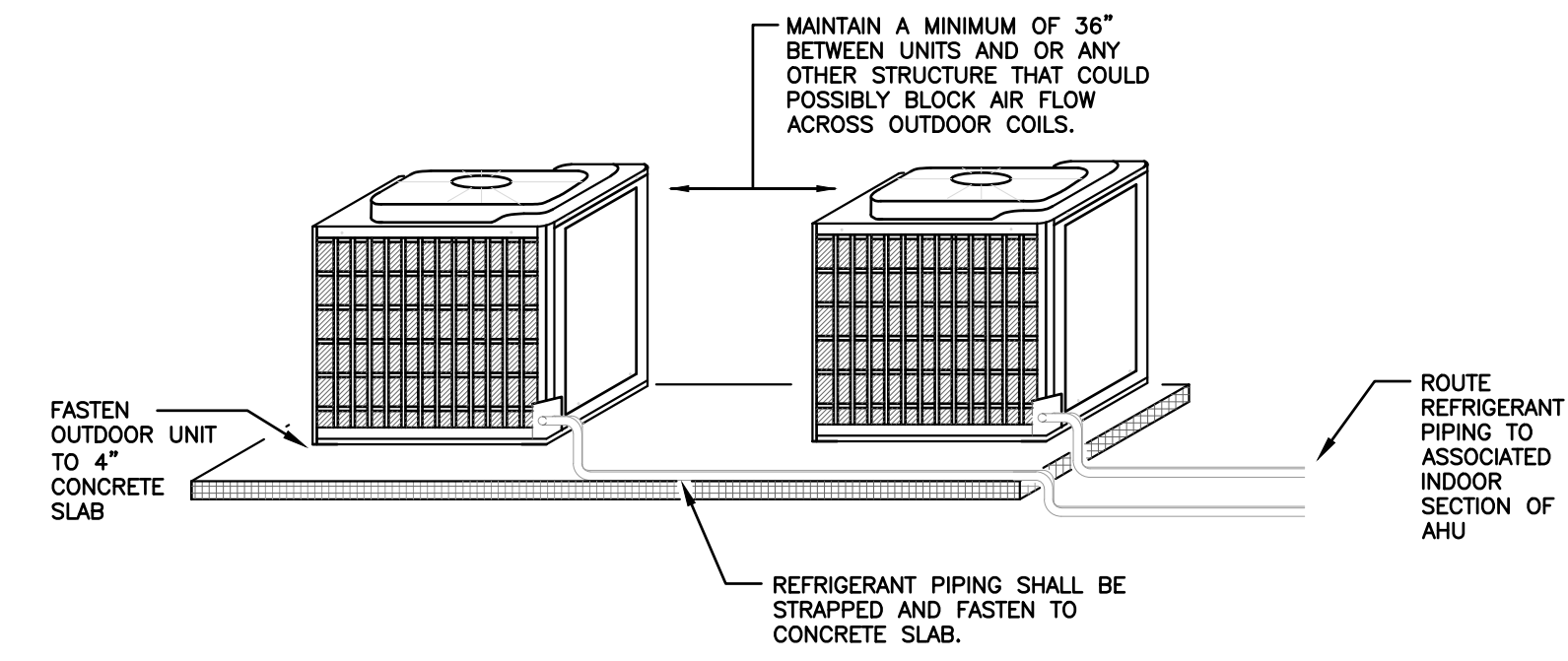
2 TYP. DIFFUSER & BRANCH CONNECTION  
SCALE: NONE



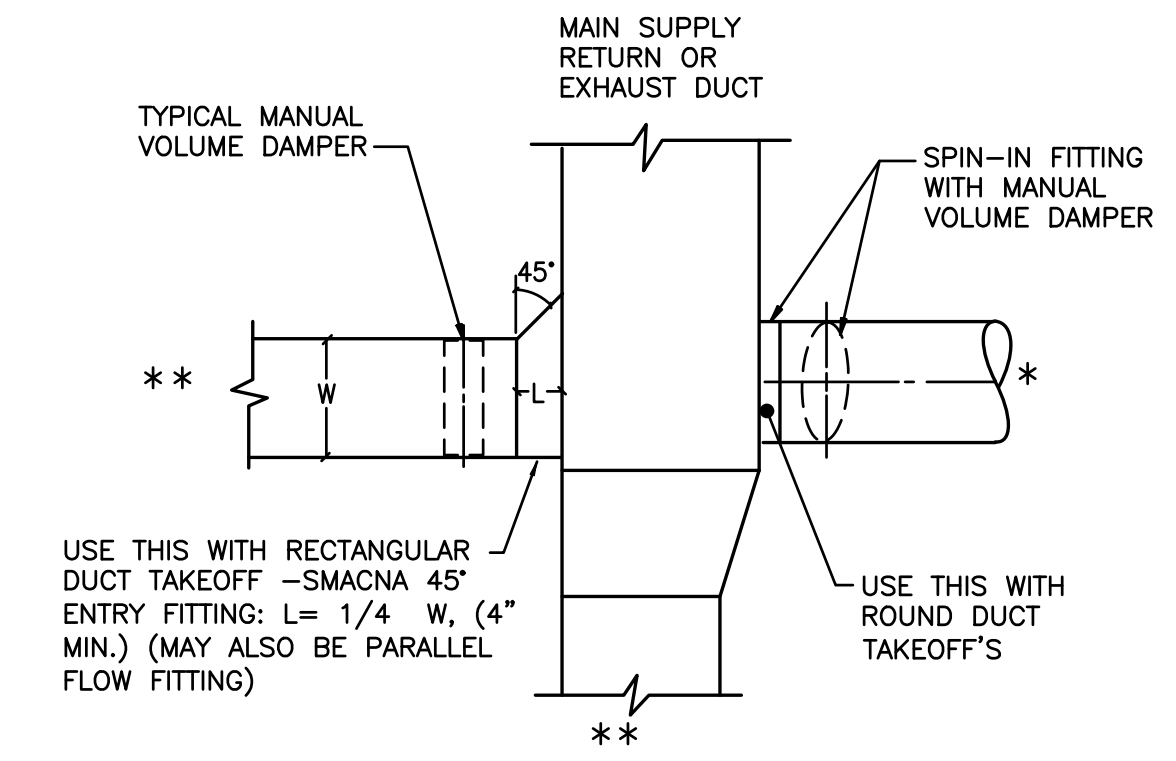
1 AHU INSTALLATION DETAIL  
SCALE: NONE



3 WALL FAN DETAIL  
SCALE: NONE

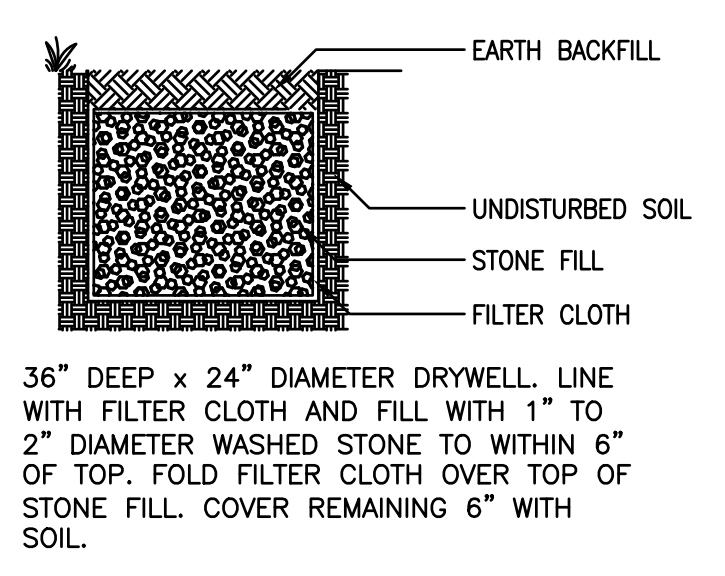


4 OUTDOOR UNIT DETAIL (TYPICAL)  
SCALE: NONE

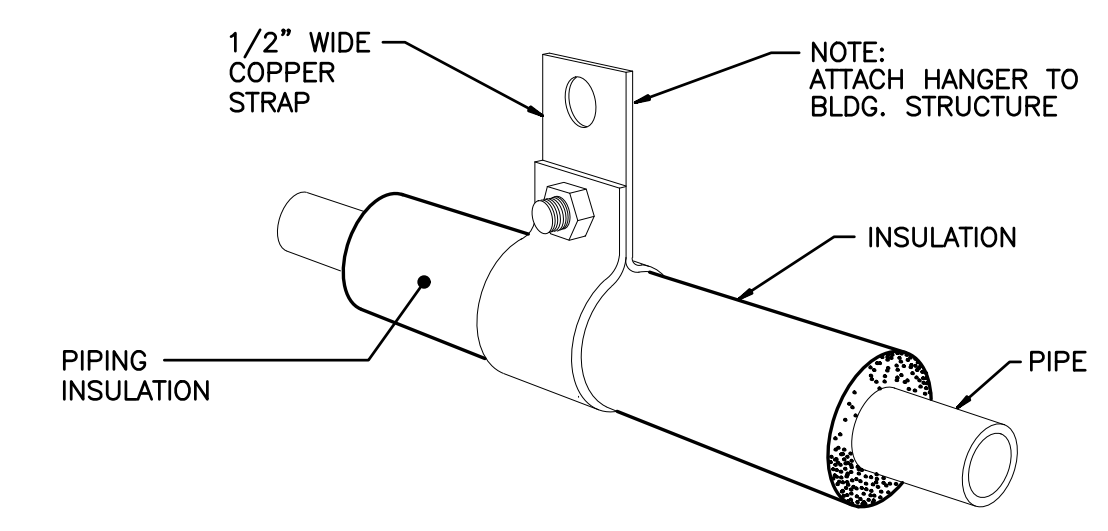


\* = BRANCH TO INDIVIDUAL DIFFUSER OR GRILLE  
\*\* = SUBMAIN, BRANCHMAIN, OR BRANCH.

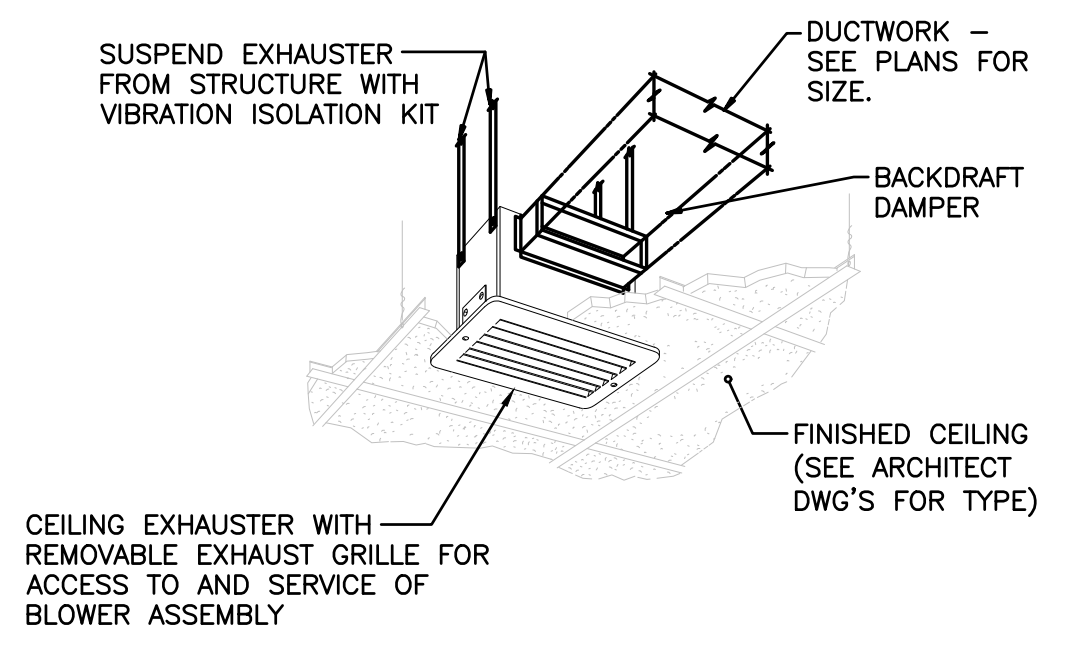
5 LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS  
SCALE: NONE



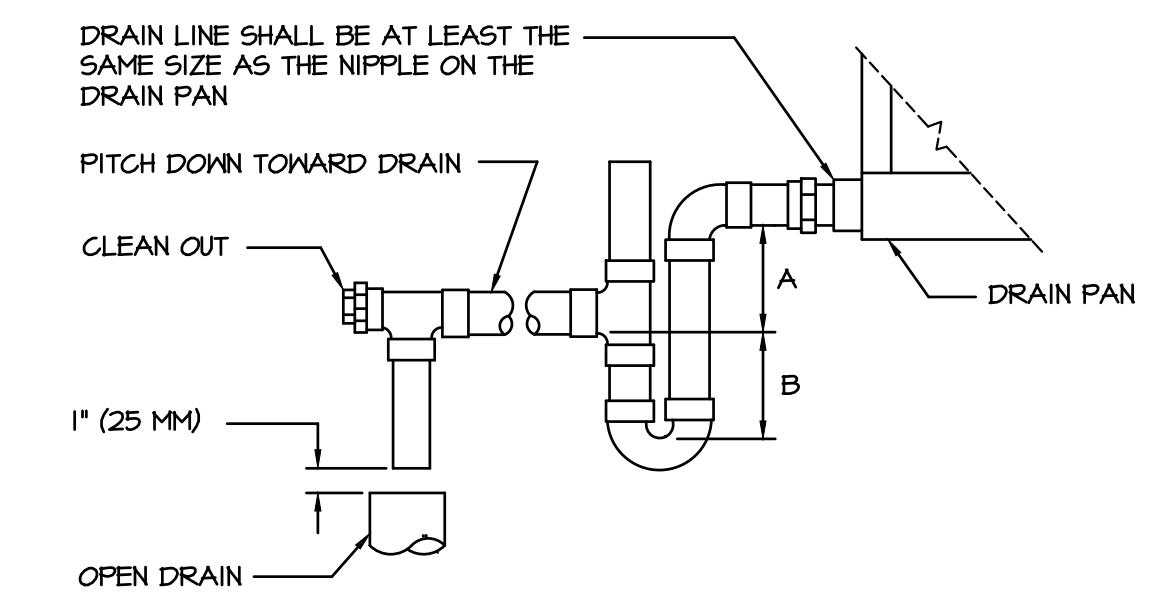
9 DRYWELL DETAIL  
SCALE: NONE



8 REFRIGERANT PIPING HANGER DETAIL  
SCALE: NONE



7 CEILING EXHAUST FAN DETAIL  
SCALE: NONE



DESIGNER'S NOTE:

UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MIN.	2X

WHERE X = STATIC PRESSURE IN PAN

6 AHU DRAIN TRAP DETAIL  
SCALE: NONE

PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH  
ALABAMA

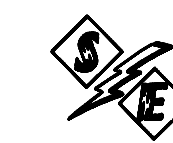
JOB NO.:  
DRAWN: RJS  
CHECKED: RJS  
DATE: 2021.07.06  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

**M2.0**  
HVAC DETAILS





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POWER & LIGHTING LEGEND

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

Table with 2 columns: Symbol and Description. Includes entries for fixture strip, emergency, battery backup, emergency battery pack, surface mtd., exit sign, single pole toggle switch, three-way toggle switch, motor rated switch, single pole momentary contact, dimmer switch, keyed switch, occupancy sensor, photo cell, fused disconnect, non-fused disconnect, motor starter, combination nonfusable disconnect, exhaust fan, single receptacle, duplex/quad receptacle outlet, receptacle, two gang floor box, 2-pole single receptacle, TVSS receptacle, junction box, above ground conduit, underground conduit, communications, hvac controls, lighting contactor.

ELECTRICAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

Table with 3 columns: Symbol, Abbreviation, and Description. Includes symbols for AT, MCB, MCC, MCM, MECH, MH, MN, MISC, MLO, MFR, MTD, MTG, MTS, N, NA, N.C., NEC, NEMA, NFPA, N.I.C., NL, NLO, NO, OD, P, PF, PH, PMS, PMT, PNL, PRI, PROVIDE, PT, PVC, RW, RM, RNC, RNS, REF, RT, SCOR, SCH, SD, SE, SEC, SH, SI, SLD, SMR, SN, SPECS, SPOT, SPST, SITS, SW, SW BD, SW OR, TB, TELE, TEMP, TVSS, TYP, UL, V, VAC, VDC, VENT, W, WP, WT, Z, and various electrical terms like AIR CONDITIONING, ALUMINUM, ALTERNATING CURRENT, AMPERE INTERRUPTING CAPACITY, APPROXIMATE, ARCHITECT, AUTOMATIC TRANSFER SWITCH, BUILDING, BACKBOARD, BREAKER, BUILDING CONDUIT, CABINET, CIRCUIT, CONTROL, CURRENT TRANSFORMER, CABLE TELEVISION, COPPER, COLD WATER PIPE, DIRECT BURIAL, DIRECT CURRENT, DEGREE, DUAL ELEMENT TIME DELAY, DIRECTED DISCONNECT SWITCH, DOWN, GARBAGE DISPOSAL, DOUBLE POLE, DRY TYPE TRANSFORMER, DISHWASHER, EXHAUST, EMERGENCY, ELECTRICAL METALLIC TUBING, EXPLOSION PROOF EQUIPMENT, EXISTING, REMOVE, ELECTRIC WATER COOLER, EXISTING, REPLACE WITH NEW FUSE, FLUSH MTC, FIRE ALARM, FINISHED, FLOOR, FILL LOAD AMPERES, FLEXIBLE METAL CONDUIT, GAUGE, GALVANIZED, GROUND FAULT INTERRUPTER, GALVANIZED RIGID METAL CONDUIT, GROUND, HEAVY DUTY HANDHOLE, HORSEPOWER, HIGH VOLTAGE HEATING/VENTILATION/AIR COND., HERTZ, INSIDE DIAMETER, ISOLATED GROUND, INTERMEDIATE METAL CONDUIT, JUNCTION BOX, KILO (1000), KILO CIRCULAR MILS, KILO VOLTS, KILO VOLT - AMPERES, KILO WATTS, LIQUIDTIGHT FLEXIBLE CONDUIT, LIGHTING, LOW VOLTAGE.

AUXILIARY LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

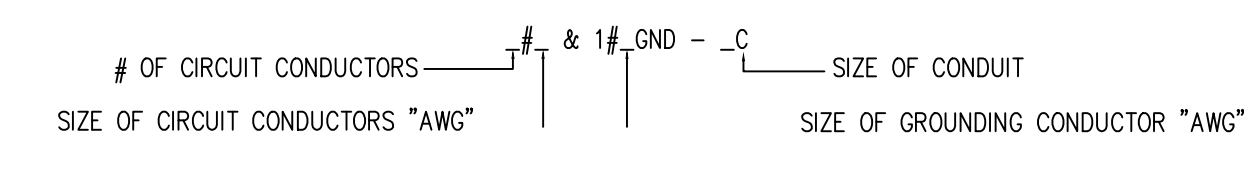
Table with 2 columns: Symbol and Description. Includes symbols for fire alarm manual pull station, fire alarm strobe, fire alarm strobe ceiling mounted, fire alarm smoke detector, fire alarm duct-mounted smoke detector, fire alarm remote test station, fire alarm heat detector, fire alarm auxiliary relay, monitor module, 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, wall mounted telephone, combination data/telephone outlet, data outlet and cover plate, floor box, audio system speaker, audio volume control, security camera.

ELECTRICAL DESIGNATIONS

Table with 3 columns: Symbol, Description, and Notes. Includes designations for fixture note, recept note, home run, home run (alternate), and wire designation.

NOTES:

- 1. "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR ONE LAMP OPERATIONAL 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.



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 2018, NEC 2017, STATE AND LOCAL CODES 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 "TMC". 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.
- 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.

PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH ALABAMA

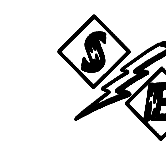
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CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

E1.0

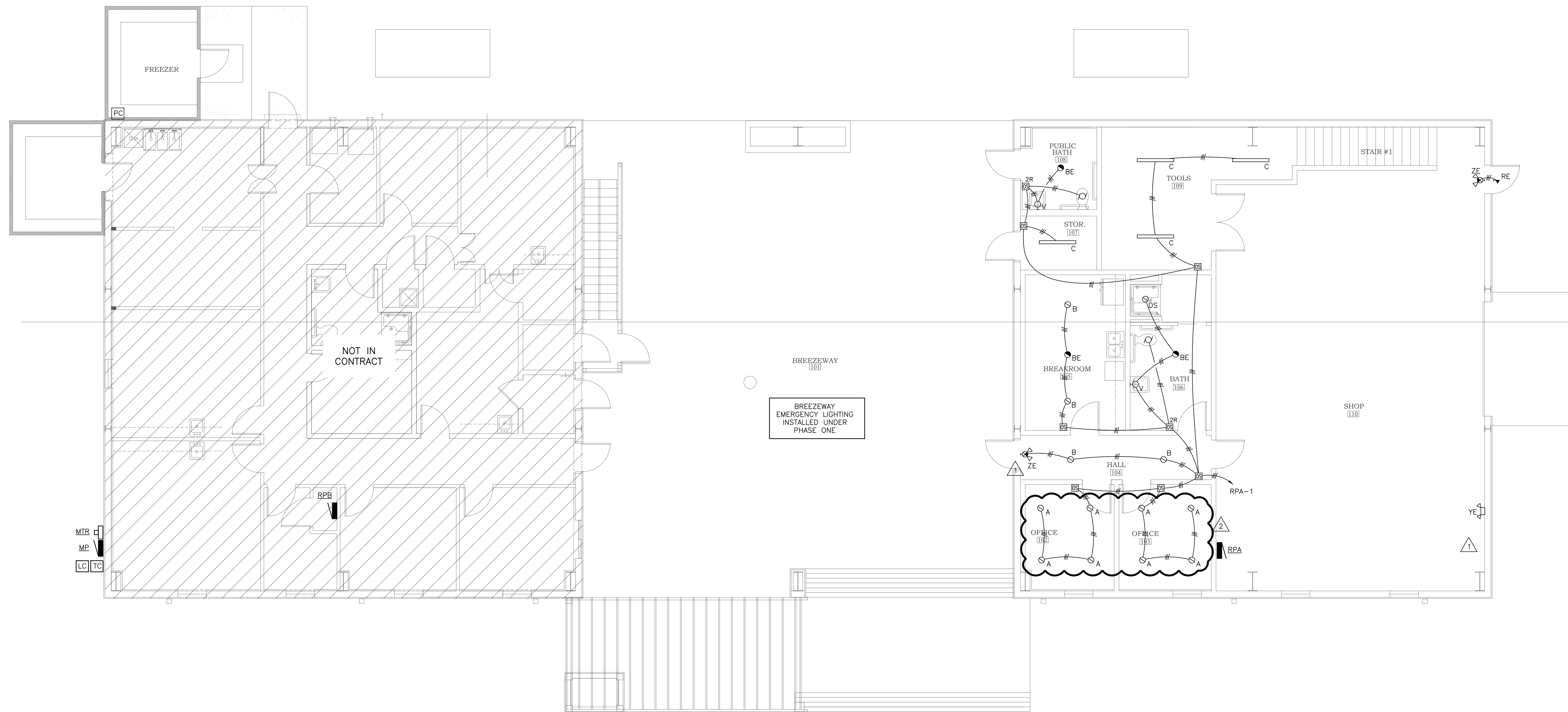
ELECTRICAL NOTES AND LEGEND



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PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH  
ALABAMA

1 LIGHTING PLAN - FIRST FLOOR  
SCALE: 3/16" = 1'-0"

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION: 2022.01.04

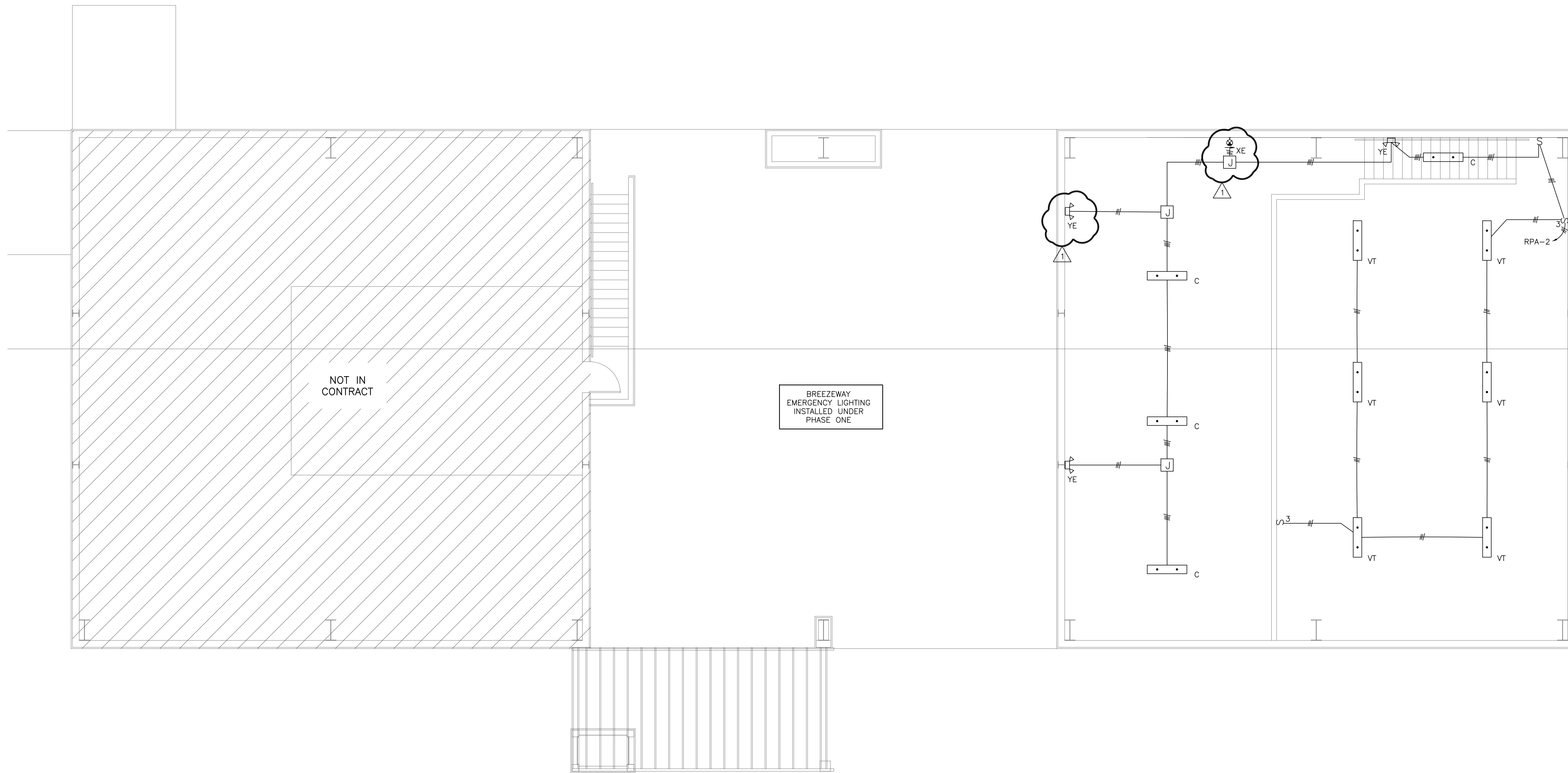
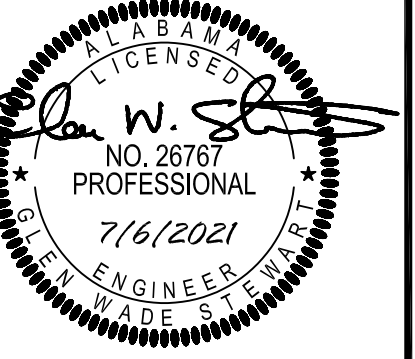
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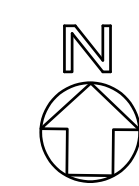
**E1.1**  
LIGHTING PLAN  
ALTERNATES

PHASE 1 ALTERNATE 1





PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH  
ALABAMA

 **1**  
E.1.2 LIGHTING PLAN- SECOND FLOOR  
SCALE: 3/16" = 1'-0"

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

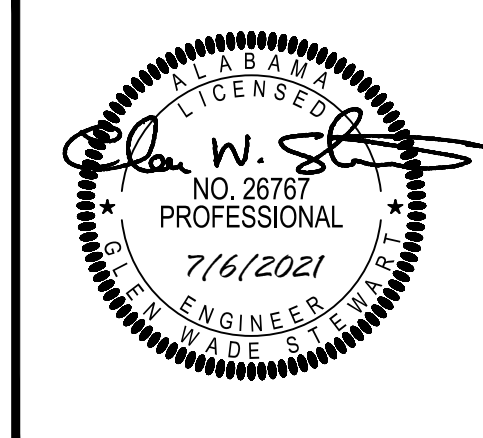
SCALE: AS SHOWN

SHEET NO.:

**E1.2**

LIGHTING PLAN  
2ND FLOOR ALTERNATES

PHASE 1 ALTERNATE 1



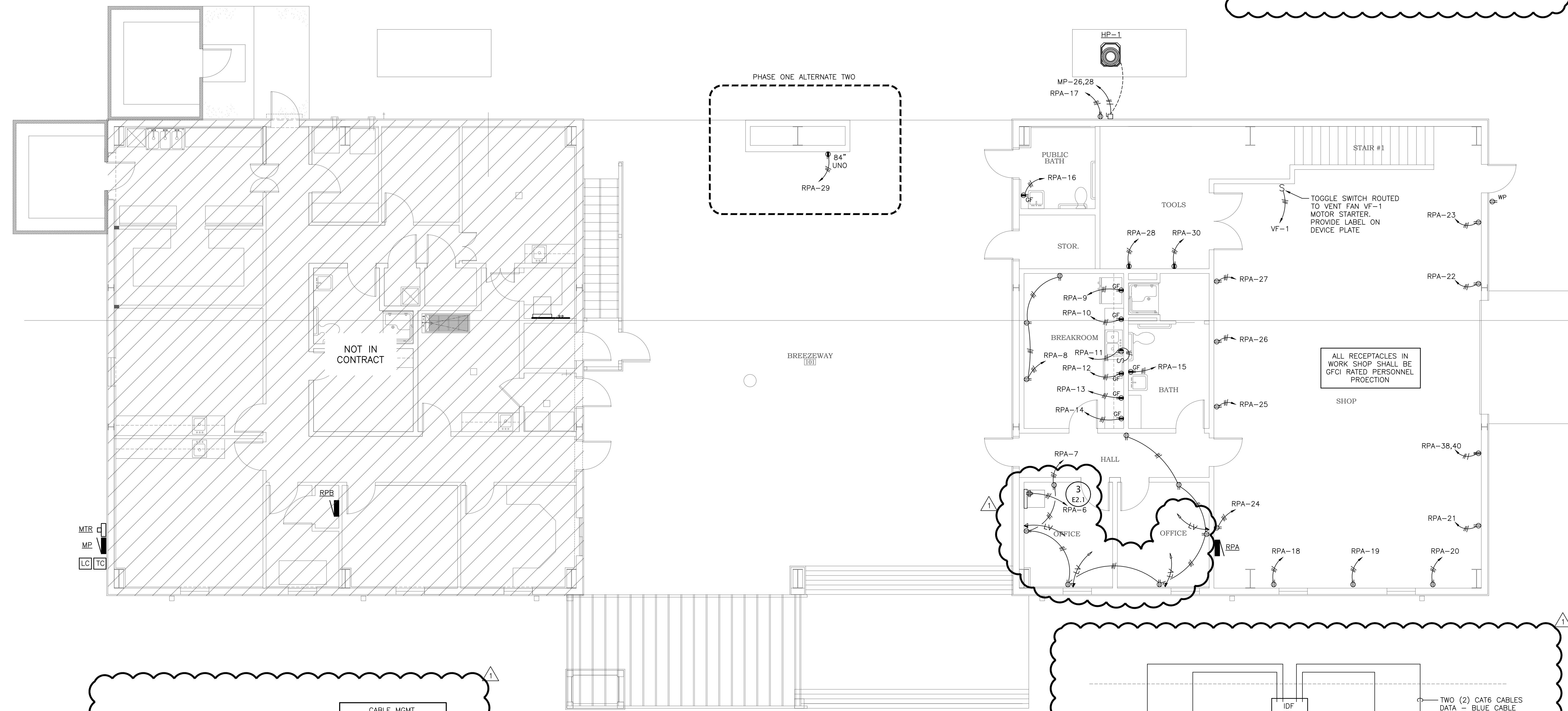
**PHASE 1 ALTERNATE 1 DRAWINGS FOR  
 ORANGE BEACH  
 TRAIL SHOP  
 ORANGE BEACH  
 ALABAMA**

JOB NO.:  
 DRAWN: GWS  
 CHECKED: GWS  
 DATE: 2021.04.22  
 REVISION: 2022.01.04

SCALE: AS SHOWN

SHEET NO.:  
**E2.1**  
 POWER & AUX  
 FIRST FLOOR ALTERNATES

**CATEGORY 6 TERMINATION NOTE:**  
 MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUIDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTION FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END ALLOW MINIMUM OF FIVE (5) FUTURE RE-TERMINATIONS WITHOUT RE-ROUTING CABLE.

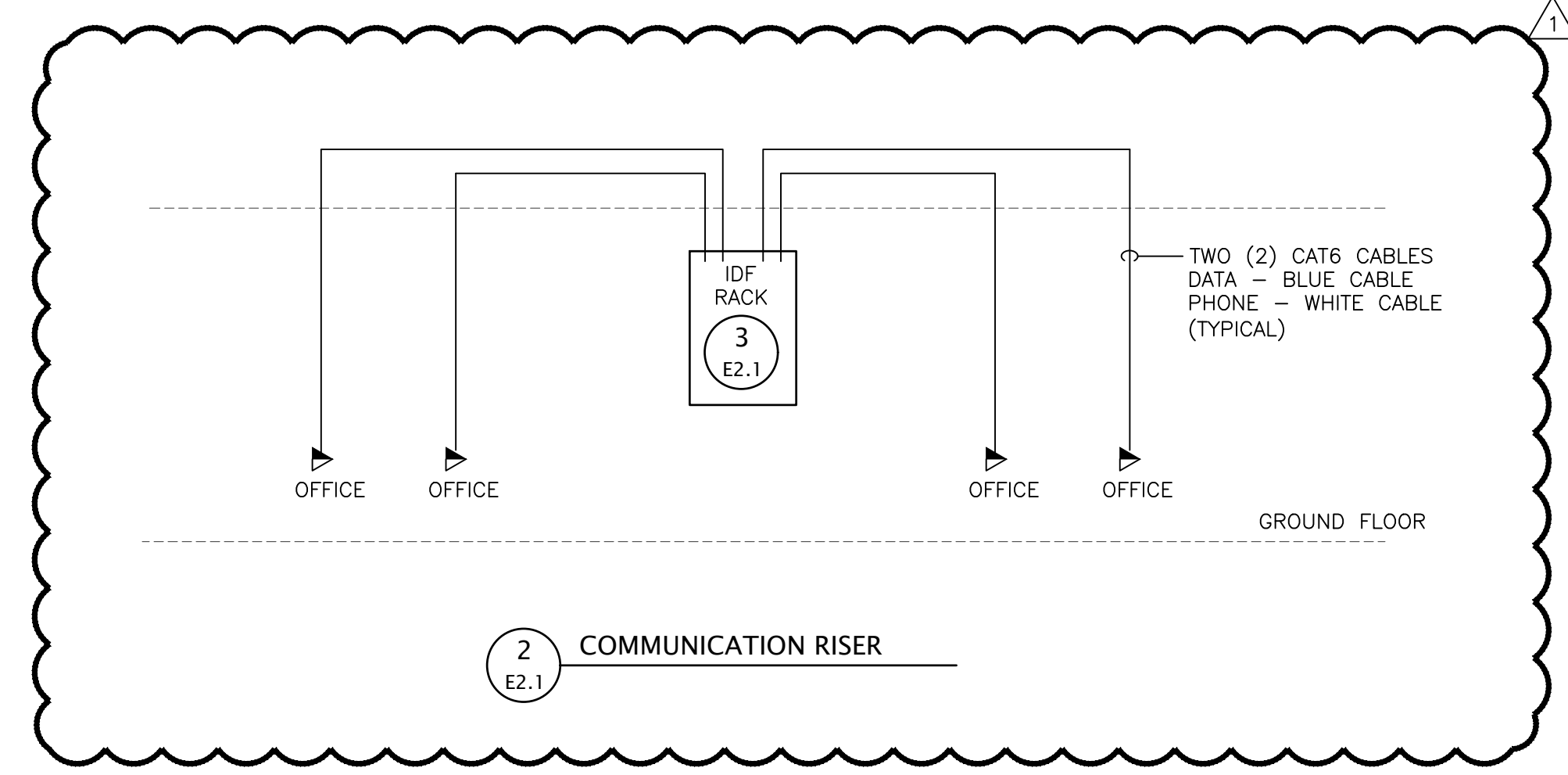


**EQUIPMENT NOTE:**  
 E.C. SHALL INSTALL ALL COMPONENTS OF THE EQUIPMENT RACKS INCLUDING BUT NOT LIMITED TO: POSTS, RACKS, MOUNTING HARDWARE, GROUNDING SYSTEM, CABLE MANAGEMENT HARDWARE, THERMAL MGMT SYSTEM, CABLING, LABELING, SHELF HARDWARE, NETWORK SWITCH/ROUTER, UPS SYSTEM, TELEPHONE SERVER, PATCH PANELS, ONE PATCH CORD PER OUTLET TO PROVIDE A FULLY FUNCTIONAL, OPERATIONAL AND CERTIFIED SYSTEM. VERIFY WITH CITY OF ORANGE BEACH EQUIPMENT SPECIFICATIONS.

CABLE MGMT
UTPP-48
CABLE MGMT
UTPP-48
CABLE MGMT
SPACE FOR USER EQUIPMENT

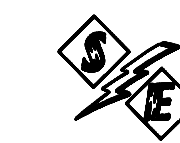
**3** IDF ELEVATION DETAIL (VERIFY WITH OWNER)

**1** POWER & AUX - FIRST FLOOR  
 SCALE: 3/16" = 1'-0"



**2** COMMUNICATION RISER  
 E2.1

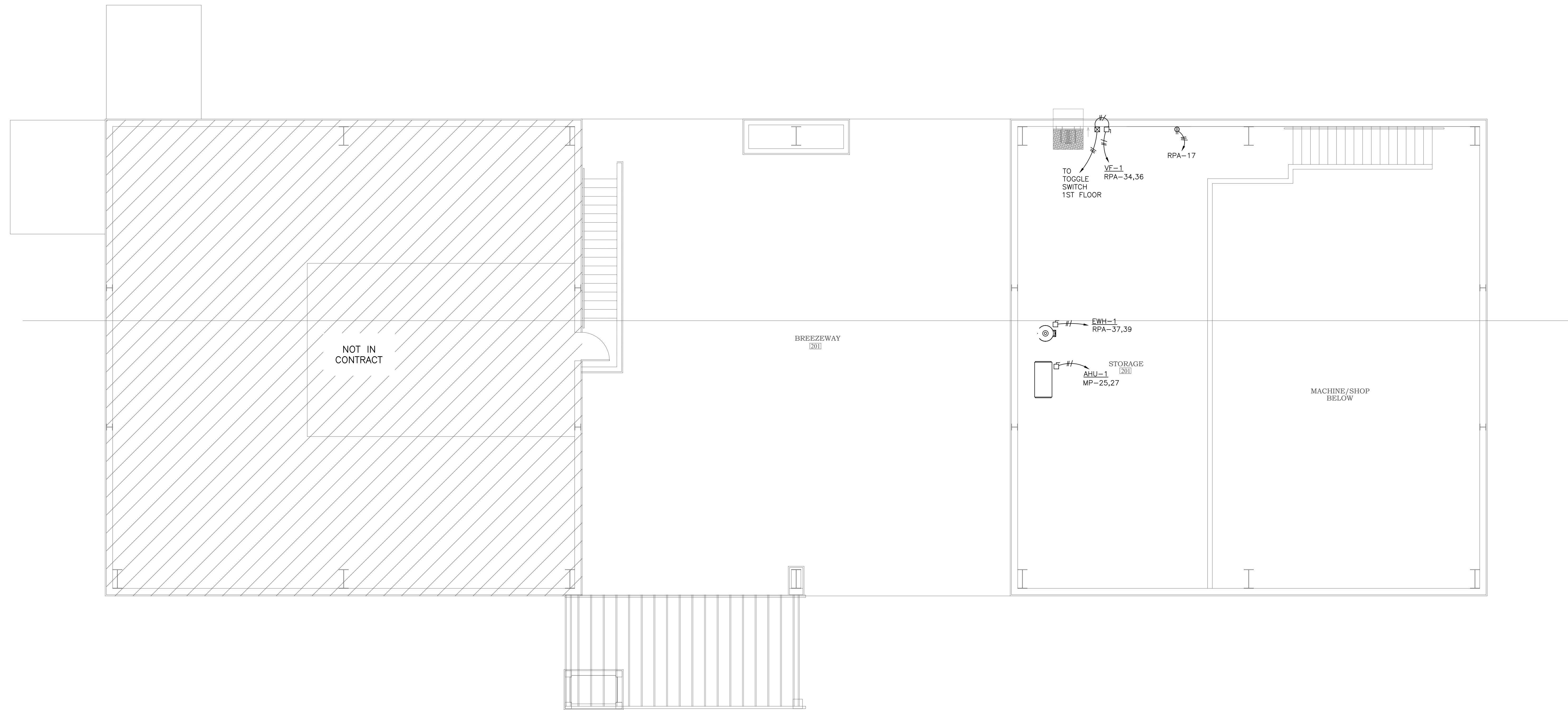




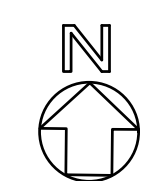
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PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH  
ALABAMA

 1  
E2.2 POWER PLAN - SECOND FLOOR  
SCALE: 3/16" = 1'-0"

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

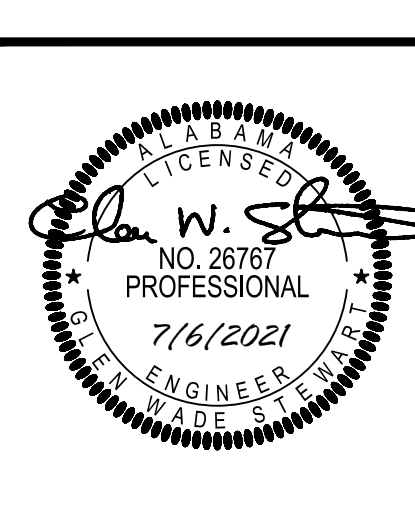
E2.2

POWER PLAN  
SECOND FLOOR

PHASE 1 ALTERNATE 1



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**PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
TRAIL SHOP  
ORANGE BEACH  
ALABAMA**

PANEL		MP									
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 3R					
VOLTAGE (L-L):		240		MOUNTING:		SURFACE					
PHASES, WIRES:		1 φ, 3 W		AIC RATING:		10000					
MINIMUM BUS CAPACITY (A):		600 A		NOTES:		----					
MAIN O.C. DEVICE (A):		600 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	POLE					
1,3	AHU-2	30	2	3360	102	3360	1548	1	20	LGTS, EXT.	2
1,3	AHU-2	30	2					1	20	LGTS, BREEZEWAY	4
5,7	AHU-3	30	2	3360	0			2	20	SPACE	6,8
5,7	AHU-3	30	2			3360	0	2	20	SPACE	6,8
9,11	SPACE	20	2	0	0			2	20	SPACE	10,12
9,11	SPACE	20	2					2	20	SPACE	10,12
13,15	SPACE	20	2	0	0			2	20	SPACE	14,16
13,15	SPACE	20	2					2	20	SPACE	14,16
17,19	SPACE	20	2	0	0			2	20	SPACE	18,20
17,19	SPACE	20	2					2	20	SPACE	18,20
21,23	SPACE	20	2	0	0			2	20	SPACE	22,24
21,23	SPACE	20	2					2	20	SPACE	22,24
25,27	AHU-1	30	2	3360	1920	3360	1920	2	25	HP-1	26,28
25,27	AHU-1	30	2					2	25	HP-1	26,28
29,31	PANEL RPA	200	2	17025	0			2	40	HP-2	30,32
29,31	PANEL RPA	200	2					2	40	HP-2	30,32
33,35	PANEL RPB	200	2	14980	4560	14676	0	2	60	HP-3	34,36
33,35	PANEL RPB	200	2					2	60	HP-3	34,36
37,39	SPARE	30	2	0	0			2	30	GP-1	38,40
37,39	SPARE	30	2					2	30	GP-1	38,40
				CONNECTED LOAD PHASE TOTALS (VA)							
				48667		44788					
				CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	DEMAND LOAD		SPARE CAPACITY		
				1.6	1.25	2.1	82.5 KVA		61.5 KVA		
				0.0	1.00	0.0	256.1 AMPS		43%		
				1.5	1.25	1.9					
				10.0	1.00	10.0					
				25.1	0.50	12.6					
				13.0	1.00	13.0					
				9.6	1.00	9.6					
				29.2	1.00	29.2					
				3.5	1.25	4.3					
TOTAL:				93.5		82.5					
LOAD (AMPS):				389.4		343.9					

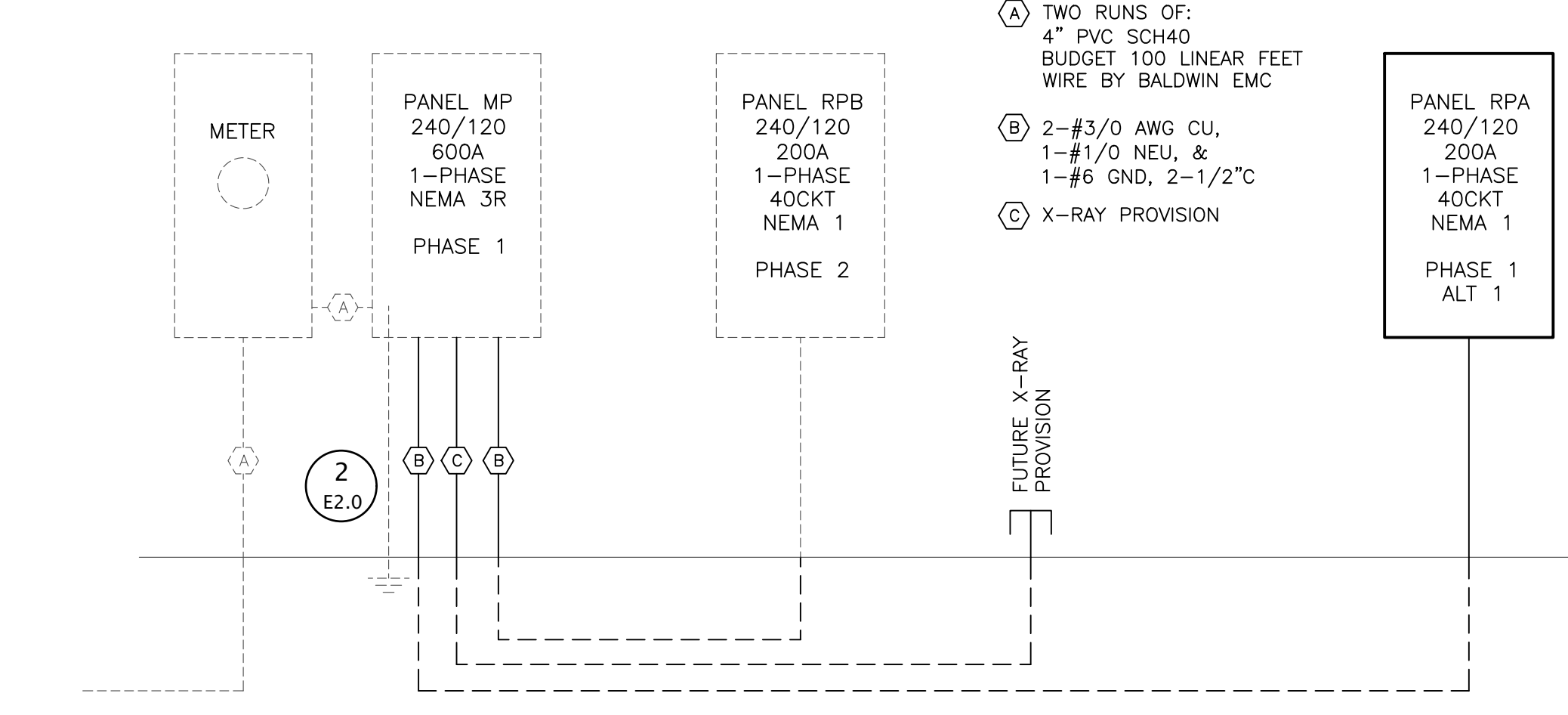
PANEL		RPA									
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1					
VOLTAGE (L-L):		240		MOUNTING:		SURFACE					
PHASES, WIRES:		1 φ, 3 W		AIC RATING:		10000					
MINIMUM BUS CAPACITY (A):		200 A		NOTES:		----					
MAIN O.C. DEVICE (A):		200 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	POLE					
1	LGTS, 101-109	20	1	399	1130			1	20	LGTS, 110	2
3	LGTS, BREEZEWAY	20	1			0	0	1	20	LGTS, EXTERIOR	4
5	SPARE	20	1	0	0			1	20	SPARE	6
7	REC, 102-4	20	1			1260	800	1	20	REC, 105/107/109	8
9	REC, 105 REF	20	1	1500	1500			1	20	REC, 105 CNTR	10
11	REC, 105 GARBAGE DISP.	20	1			500	1500	1	20	REC, 105 CNTR	12
13	REC, 105 CNTR	20	1	1500	1500			1	20	REC, 105 CNTR	14
15	REC, 106	20	1			1500	200	1	20	REC, 108	16
17	REC, EXT. & MEZZ	20	1	400	180			1	20	REC, WORK SHOP	18
19	REC, WORK SHOP	20	1			180	180	1	20	REC, WORK SHOP	20
21	REC, WORK SHOP	20	1	180	180			1	20	REC, WORK SHOP	22
23	REC, WORK SHOP	20	1			180	200	1	20	REC, WORK SHOP	24
25	REC, WORK SHOP	20	1	200	200			1	20	REC, WORK SHOP	26
27	REC, WORK SHOP	20	1			200	180	1	20	REC, TOOL RM	28
29	REC, BREEZEWAY TV	20	1	180	180			1	20	REC, TOOL RM	30
31	SPARE	20	1			0	0	1	20	SPARE	32
33,35	SPARE	30	2	0	746			2	20	VF-1	34,36
33,35	SPARE	30	2			0	746	2	20	VF-1	34,36
37,39	EW-1	30	2	2250	4800			2	50	WELDER	38,40
37,39	EW-1	30	2			2250	4800	2	50	WELDER	38,40
				CONNECTED LOAD PHASE TOTALS (VA)							
				17025		14676					
				CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	DEMAND LOAD		SPARE CAPACITY		
				0.0	1.00	0.0	30.2 KVA		17.8 KVA		
				1.5	1.25	1.9	74.3 AMPS		37%		
				10.0	1.00	10.0					
				4.6	0.50	2.3					
				9.6	1.00	9.6					
				4.5	1.00	4.5					
				1.5	1.25	1.9					
TOTAL:				31.7		30.2					
LOAD (AMPS):				132.1		125.7					

**PANELBOARD SCHEDULE AND DETAIL NOTES:**

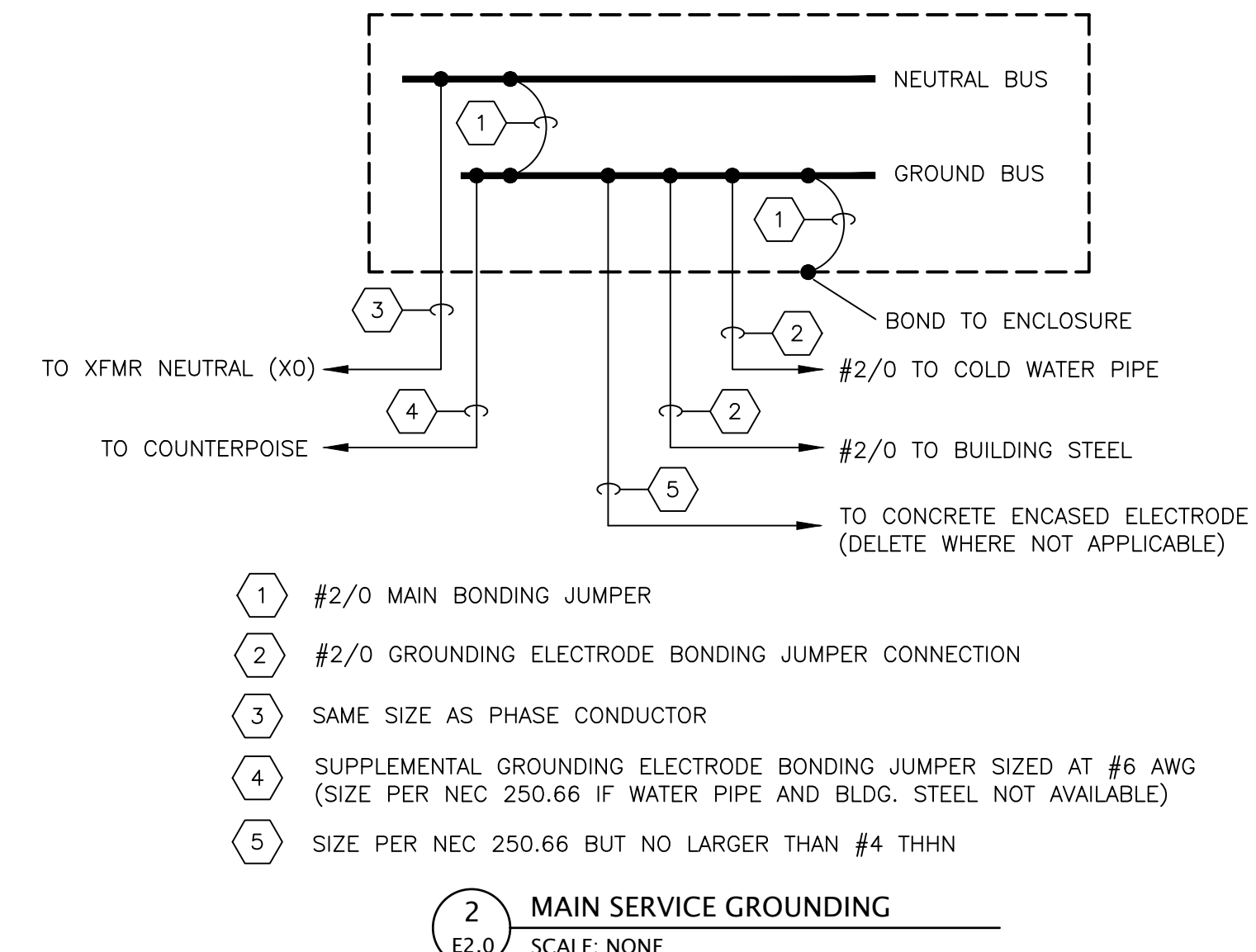
- PANELBOARD & PANELBOARD INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, ART. 384. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THIS LISTING AND FULLY SUPPORTED BY MEANS DESIGNED FOR THAT LISTED INSTALLATION. ALL CLEARANCES REQUIRED BY CODE SHALL BE MAINTAINED AS MINIMUM.
- EACH PANELBOARD SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED CAN, INTERNAL HARDWARE, DEVICES, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION TO PROVIDE THE DESIGNED PERFORMANCE UNDER THE AMBIENT CONDITIONS ENCOUNTERED. ALL DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION. ALL DEVICES INSTALLED SHALL HAVE AN INTERRUPTING RATING GREATER THAN OR EQUAL TO THE SPECIFIED SCCR.
- EACH PANELBOARD SHALL BE FURNISHED WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE. THIS GROUND BUS SHALL BE UTILIZED TO BOND ALL GROUNDING PROVISIONS IN ORDER TO ESTABLISH EQUAL POTENTIAL TO ALL GROUNDED COMPONENTS OF THE POWER SYSTEM.
- PANELBOARD CANS SHALL BE RIGID AND CONTAIN KNOCKOUT PROVISIONS TO FACILITATE THE TERMINATION OF THE NUMBER AND SIZE OF CONDUIT SYSTEMS REQUIRED.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP AND BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
- CONDUCTORS, SPLICES AND TERMINATIONS SHALL BE ACCESSIBLE. ONLY CONDUCTORS RATED AND SIZED FOR THE TEMPERATURE OF THE TERMINATION SHALL BE USED.
- PANELBOARDS SHALL NOT BE INSTALLED IN CONTACT WITH COMBUSTIBLE MATERIALS. ADEQUATE SPACE FOR AIR CIRCULATION AND CODE COMPLIANCE SHALL BE PROVIDED AS A MINIMUM. FURNISH SPACERS, WASHERS, SUPPORTING DEVICES, ETC., AS REQUIRED TO MAINTAIN PROPER CLEARANCES.
- ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 1" EMPTY SPARE CONDUITS TO ABOVE THE NEAREST ACCESSIBLE CEILING.

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. ALL HVAC 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 BASES 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 COPPER CONDUCTORS.  
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.



1 ELECTRICAL RISER  
SCALE: NONE



2 MAIN SERVICE GROUNDING  
SCALE: NONE

		LIGHTING FIXTURE SCHEDULE																		
ID	DESCRIPTION	ELECTRICAL DATA			LAMP DATA			BASIS OF DESIGN				MOUNT TYPE								
		LOAD VA	VOLTAGE	QTY	LUMENS	MANUFACTURER	MODEL OR SERIES	CEILING	FLOOR	GROUND	POLE	ROOF	SUSPENDED	WALL	FLUSH	PEDestal	Pendant	Recessed	Surface	Track
A	DOWN LIGHT	20	120	--	1500	LITHONIA	LDN6 40/15 LO6AR LS													
B	DOWN LIGHT	20	120	--	2000	LITHONIA	LDN6 40/20 LO6AR LS													
BE	DOWN LIGHT	20	120	--	2000	LITHONIA	LDN6 40/20 LO6AR LS ELSD													
C	STRIP	15	120	--	1500	LITHONIA	ZL1N L24 1500LM FST MVOLT 4000K 80 WH													
D	2X4 TROFFER	49	120	--	5400	LITHONIA	EPANL 2X4 5400 80CRI 40K													
DE	2X4 TROFFER	49	120	--	5400	LITHONIA	EPANL 2X4 5400 80CRI 40K E10WCP													
F	2X2 TROFFER	31	120	--	3400	LITHONIA	EPANL 2X2 3400 80CRI 40K													
FE	2X2 TROFFER	31	120	--	3400	LITHONIA	EPANL 2X2 3400 80CRI 40K E10WCP													
V	VANITY	20	120	--	--		ALLOWANCE \$150													
VT	VAPORTIGHT	116	120	--	15000	LITHONIA	VAP 15000LM PCL WD 40K 80CRI													
W	WALL PACK	30	120	--	4000	LITHONIA	ARC2 LED P4 40K MVOLT DDBXD													
RE	REMOTE EGRESS	6	120	--	--	EMERGI-LITE	EF44-2-LED-WP													
YE	EMERGENCY LIGHT	1	120	--	--	EMERGI-LITE	EL-2LED (LITE-2-LG-FINISH-N)													
ZE	EXIT/EMER. COMBO	1	120	--	--	EMERGI-LITE	ELXN400-G-2LED-R													

JOB NO.:  
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CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

SCALE: AS SHOWN

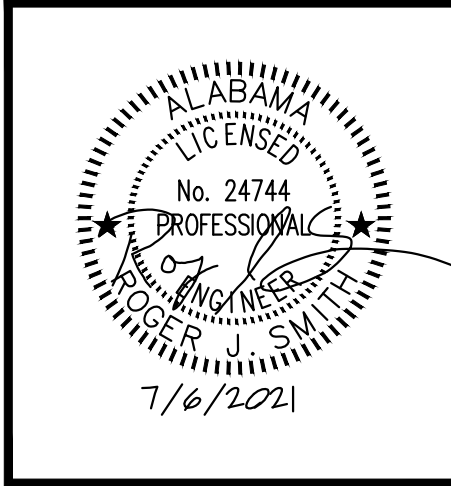
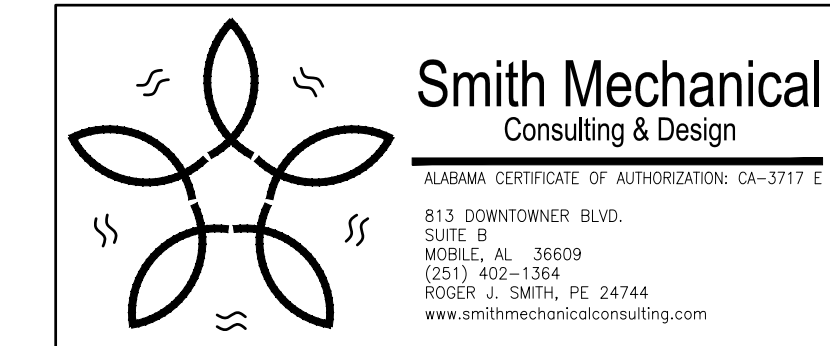
SHEET NO.:

**E3.0**

ELECTRICAL RISER  
AND DETAILS

**PHASE 1 ALTERNATE 1**





PHASE 1 ALTERNATE 1 DRAWINGS FOR  
 ORANGE BEACH  
**TRAIL SHOP**  
 ORANGE BEACH  
 ALABAMA

**PLUMBING SYMBOL LEGEND**

- DCW PIPING
- DHW PIPING
- DHC PIPING
- SAN WASTE PIPING
- V VENT PIPING
- G GAS PIPING
- TP TRAP PRIMER PIPING
- WET FIRE WATER WET PIPING
- PIPE TURNING UP
- PIPE TURNING DOWN
- BALL VALVE
- GATE VALVE
- CHECK VALVE
- TEMP/PRESSURE RELIEF VALVE
- GAS COCK
- UNION
- CLEANOUT
- FD FLOOR DRAIN
- FS FLOOR SINK
- HOSE BIBB
- WHA WATER HAMMER ARRESTOR TYPE "A" (TYP)

**PLUMBING ABBREVIATIONS**

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS. REFER TO HVAC DRAWINGS FOR HVAC EQUIPMENT ABBREVIATIONS.

- AFB ABOVE FINISHED FLOOR
- AUX AUXILIARY
- CEIL CEILING
- CIRC CIRCULATING
- CO CLEANOUT
- CW COLD WATER
- DCW DOMESTIC COLD WATER
- DHC DOMESTIC HOT CIRCULATED
- DHW DOMESTIC HOT WATER
- DIA DIAMETER
- DST DEEP SEAL TRAP
- EQUIP EQUIPMENT
- EWV ELECTRIC WATER COOLER
- EWV ELECTRIC WATER HEATER
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FIKT FIXTURE
- GWH GAS WATER HEATER
- HB HOSE BIBB
- HR HOUR
- HW HOT WATER
- HWR HOT WATER RETURN
- MAX MAXIMUM
- MECH MECHANICAL
- MIN MINIMUM
- MTR METER
- NIC NOT IN CONTRACT
- PENE PENETRATION
- RM ROOM
- SAN SANITARY
- SURF SURFACE
- SYS SYSTEM
- T & P TEMPERATURE & PRESSURE
- TEMP TEMPERATURE
- TP TRAP PRIMER
- TYP TYPICAL
- VTR VENT TO ROOF
- WCO WALL CLEANOUT
- WET WET PIPING
- WH WALL HYDRANT
- WHA WATER HAMMER ARRESTOR
- W/ WITH
- YCO YARD CLEANOUT

**PLUMBING FIXTURE SCHEDULE (PHASE 1 ALTERNATE 1)**

ID	DESCRIPTION
CB-1	ICE MAKER WATER CONNECTION. USE SIOUX CHIEF ICE MAKER OUTLET BOX WITH MINIRESTER 696 SERIES WITH 1/2" PEX CONNECTION; MOUNT @ 48" U.N.O. FURNISH FLEXIBLE CONNECTION FROM OUTLET BOX TO WALL MOUNTED WATER FILTER WITH FLEXIBLE CONNECTION TO APPLICANCE. WATER FILTER SHALL BE EQUAL TO WHIRLPOOL WHKF-DWHV OR EQUAL. FURNISH WITH ONE EXTRA FILTER. VERIFY WITH OWNER/CONTRACTOR. APPLIANCES FURNISHED BY OTHERS.
EWC-1	EWC-1, ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED WITH BOTTLE FILLER ELKAY LZSTL8WSVRSK OR EQUAL WITH BOTTLE FILLER/FOUNTAIN ON LEFT AT ADA LEVEL; MCGUIRE 8902 TRAP; BRASSCRAFT 1912-A SUPPLY. MOUNT WITH LOWER SPOUT AT 36" AFF. CONNECTIONS: CW 1/2", WASTE 2", VENT 2" MIN.
FD-1	FLOOR DRAIN, J.R. SMITH 2005/2010 SERIES COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER AND GREEN DRAIN TRAP SEAL.
HB-1	HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".
MS-1	MOP BASIN - ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.
SH-1	SHOWER, ARRAY ADA3636, W/ CENTER DRAIN AS DESIGNATED IN PLAN DWGS, SHOWER, SOLID-SURFACE, SMOOTH SHOWER, SOAP HOLDER, GRAB BARS, FOLDING SEAT, ZURN Z7301-SS-MT-DV2P-HW-117-SB TEMP-GARD III SHOWER UNIT KIT WITH SINGLE HANDLE PRESSURE BALANCING & MIXING UNIT, 1.5 GPM SHOWER HEAD, FLEX METAL HOSE, INLINE VACUUM BREAKER, WALL CONNECTION, FLANGE AND WALL HOOK FOR HAND SHOWER, PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH ARM AND FLANGE. CONNECTIONS: CW 1/2", HW 1/2" TEMPERATURE LIMITING TO 110°F, WASTE 2", VENT 1-1/2" MIN.
SK-1	KITCHEN SINK, ELKAY CR3222, 20 GAUGE, STAINLESS STEEL, DOUBLE BOWL, 7" DEPTH, DROP IN TYPE, FURNISH WITH ELKAY LKD2437BHC GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SAN CONNECTION; NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. INCLUDE 1/4" FLEXIBLE SUPPLY CONNECTION TO REFRIGERATOR ICE MAKER UNIT. ROUTE TUBING CONCEALED IN BASE CABINET. STRAP TUBING TO REAR OF CABINET. EXISTING CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
SK-3	3 COMPARTMENT SINK - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
WC-1H	WC-1H WATER CLOSET, ZURN SERIES Z5660, FLOOR MOUNTED, ELONGATED WATER CLOSET, ZURN Z6000AV-WS1 (1.6 gpf) FLUSH VALVE W/ SPLIT RING PIPE SUPPORT, & ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1", WASTE 3", VENT 2" MIN.
FS-1	FLOOR SINK, MIFAB FS1520-FLC-3-P, 8" SQUARE, 6" DEEP, CAST IRON, A.R.E. INTERIOR ALUMINUM DOME STRAINER, STAINLESS STEEL TOP W/CLAMPING DEVICE. FURNISH WITH PRO-SET TRAP SEAL. COORDINATE EXACT LOCATION OF DRAIN WITH ARCHITECTURAL PLANS SO AS TO CENTER FLOOR DRAIN CENTER OF TILE. FLOOR SHALL BE SLOPED TOWARD DRAIN.
HS-1	HAND SINK, ELKAY CR1721, 20 GAUGE, STAINLESS STEEL, SINGLE BOWL, DROP IN TYPE, FURNISH WITH ELKAY LK800GNOST4 GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SAN CONNECTION, NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
LV-1H	ZURN Z5840 SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; ZURN Z81104-XL FAUCET WITH LEVER HANDLES, ZURN Z8800 SUPPLIES; ZURN Z8700 TRAP; Z8746-PC ADA GRID STRAINER; ZURN Z8946-3-NT ADA PROTECTORS, ASSE 1070 APPROVED TEMPERATURE LIMITING VALVE SET TO 110°F, ZURN Z1231 CONCEALED ARM CARRIER, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.
MV-1	MIXING VALVE, EQUAL TO SYMMONS, 0.5 GPM MINIMUM, 5.5 GPM MAXIMUM @ 10 PSI PRESSURE DROP

**WATER HEATER SCHEDULE**

TAG	ELECTRIC DATA				HYDRONIC DATA					BASIS OF DESIGN		WEIGHT	NOTES
	FLA	MOCPP	VOLT PHASE	KW	EWT	LWT	RATE OF RECOVERY	RISE OF RECOVERY	CAPACITY (GAL)	MFGR	MODEL		
	AMPS	AMPS			DEG.F	DEG.F	GPM	DEG. F					
EWH-1	28	30	240/1	4	60	140	0.33	80	40	RHEEM	ELD40	108	ALL

NOTES:  
 1. 3/4" INLET OUTLET CONNECTIONS  
 2. SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES. LAVATORIES SHALL BE EQUIPPED WITH INDIVIDUAL TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070.  
 3. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI  
 4. 1/2" INLET OUTLET CONNECTIONS  
 5. INSTALL HOT WATER CIRC. PUMP RATED FOR 5 GPM, 20 FT HEAD PRESSURE, 120VAC, 1/12 HP, WITH AQUASTAT.

**HOT WATER RECIRCULATION PUMP SCHEDULE**

MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	Hz	PHASE	NOTES
1	AQUASTAT	5	20	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4
NOTES									
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.								
2	PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 110F.								
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.								

**GENERAL PLUMBING NOTES:**

- COMPLY WITH 2018 INTERNATIONAL MECHANICAL & PLUMBING CODE, NFPA, STATE AND LOCAL CODES.
- PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- 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.
- PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES, AND DIMENSIONS.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- ALL COMPONENTS USED IN PLENUM SPACES MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY FIRESTOPPED.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:  
 A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER OR PEX.  
 B. LINES ABOVE GRADE SHALL BE TYPE "L" HARD COPPER.  
 C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.  
 D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.  
 E. EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL FLOOR DRAINS SHALL BE EQUIPPED WITH TRAP PRIMER. LOCATE TRAP PRIMER EQUIPMENT CONCEALED IN ACCESSIBLE LOCATION.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 180 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10" WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, 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 MECHANICAL CONTRACTOR'S EXPENSE.

**FIXTURE CONNECTION NOTES:**

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- PROVIDE PVC (SCH 80) P-TRAPS FOR UNDER FLOOR DRAINS.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MAXIMUM OF 0.5 GPM AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.

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 CHECKED: RJS  
 DATE: 2021.07.06  
 REVISION:

SCALE: AS SHOWN

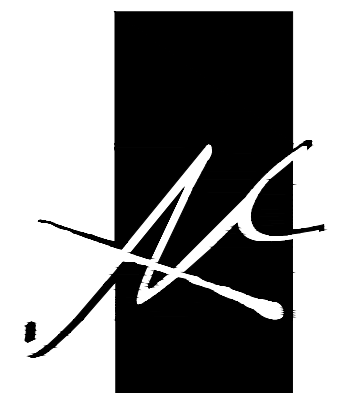
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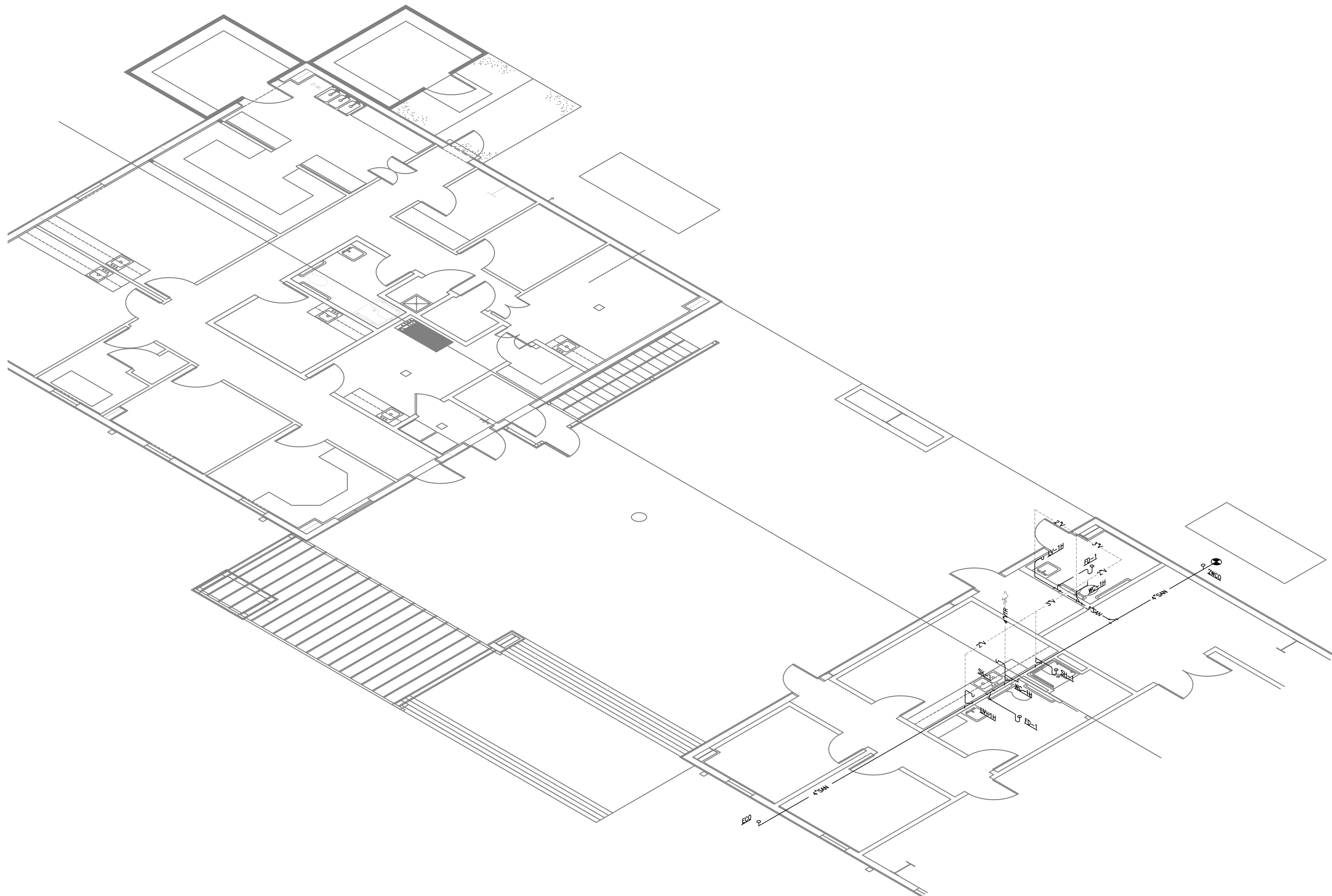
PLUMBING NOTES, SCHEDULES AND LEGEND







McCULLOUGH  
ARCHITECTURE, INC.  
P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



PHASE 1 ALTERNATE 1 DRAWINGS FOR  
ORANGE BEACH  
**TRAIL SHOP**  
ORANGE BEACH  
ALABAMA

JOB NO.:  
DRAWN: RJS  
CHECKED: RJS  
DATE: 2021.07.06  
REVISION:

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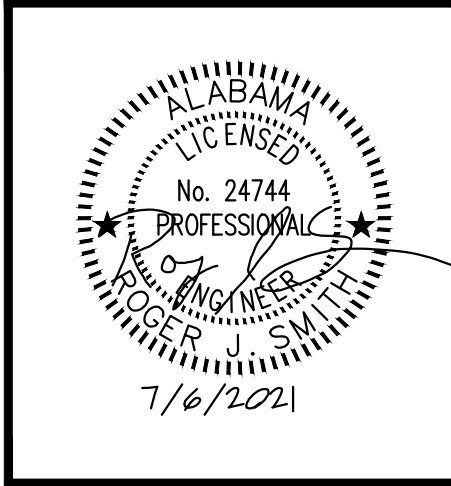
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**P2.0**

SANITARY WASTE  
RISERS

1 SANITARY WASTE RISER  
P2.0 SCALE: NONE

PHASE 1 ALTERNATE 1



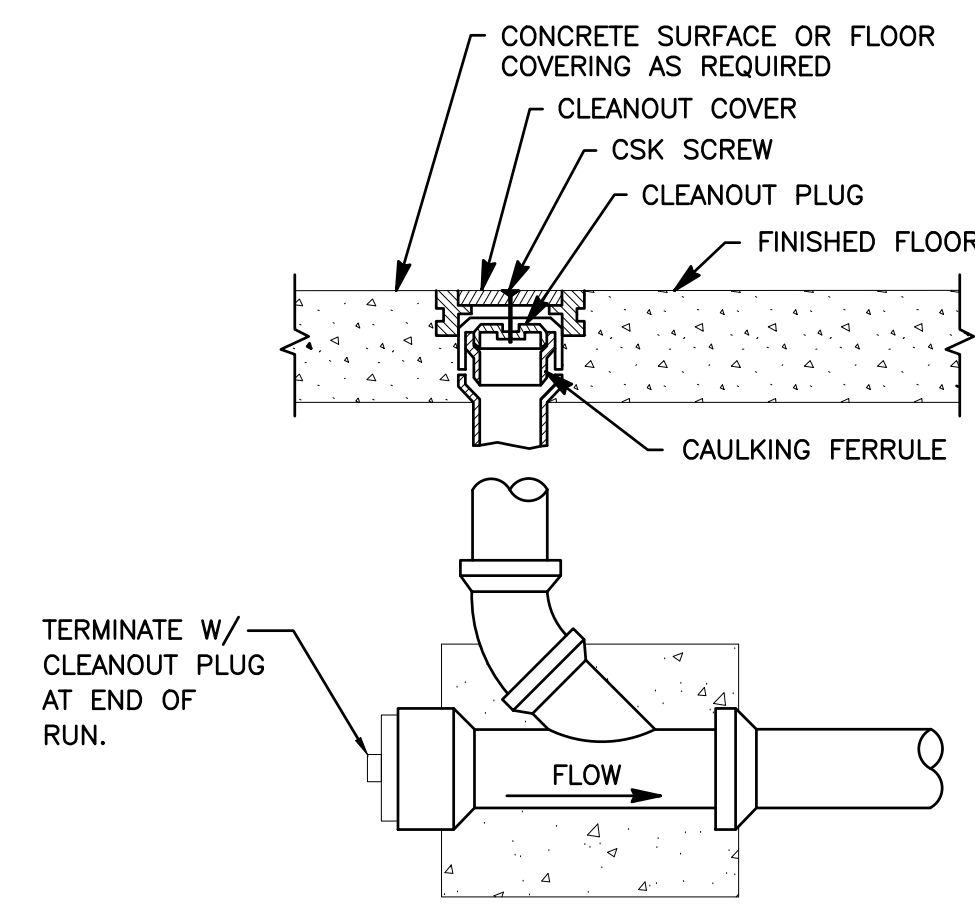
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ORANGE BEACH  
**TRAIL SHOP**  
ORANGE BEACH  
ALABAMA

JOB NO.:  
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DATE: 2021.07.06  
REVISION:

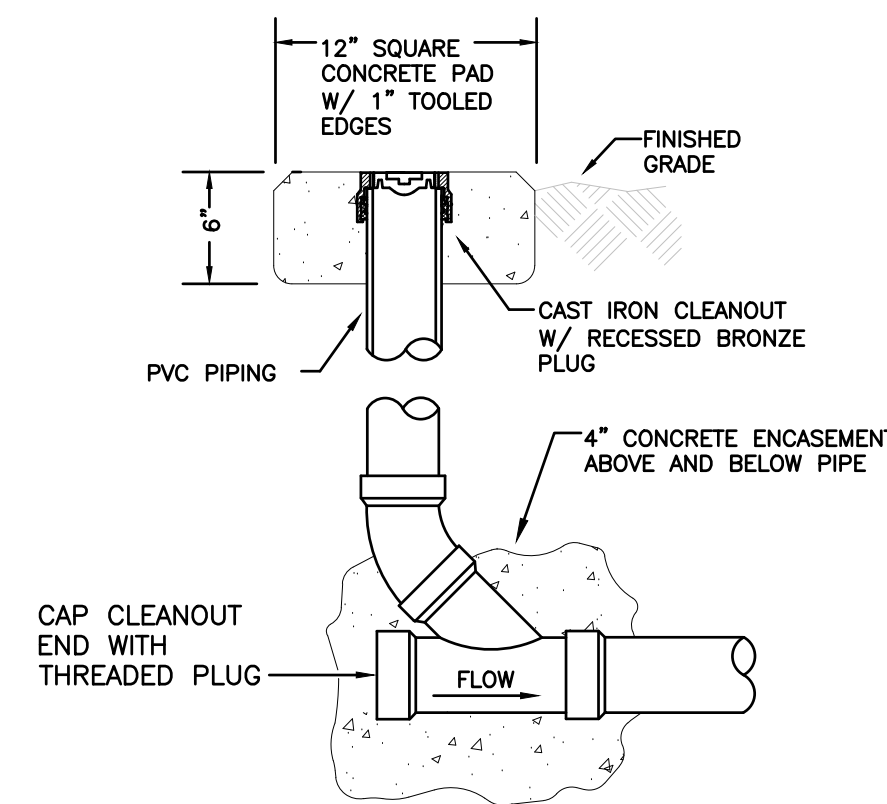
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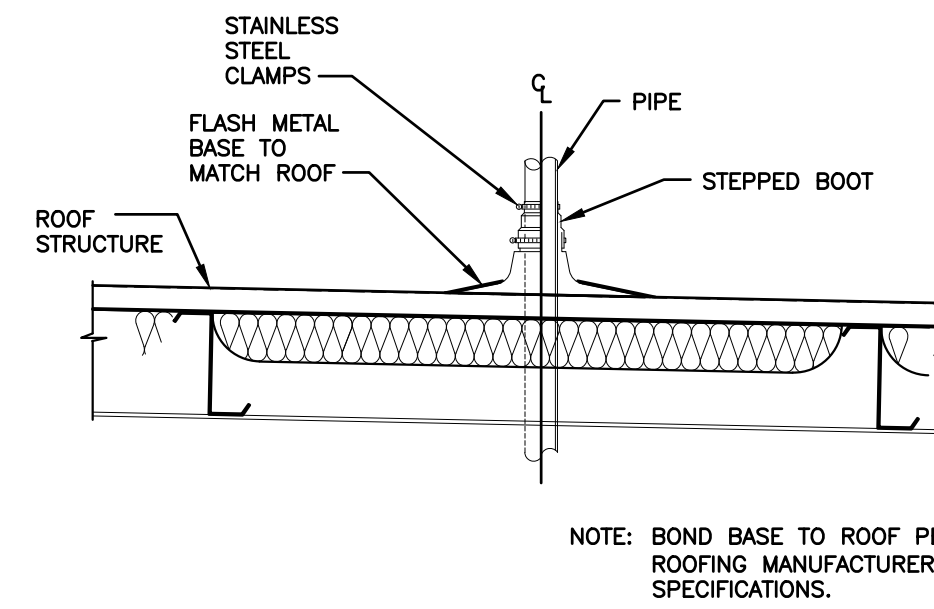
**P2.1**  
PLUMBING  
DETAILS



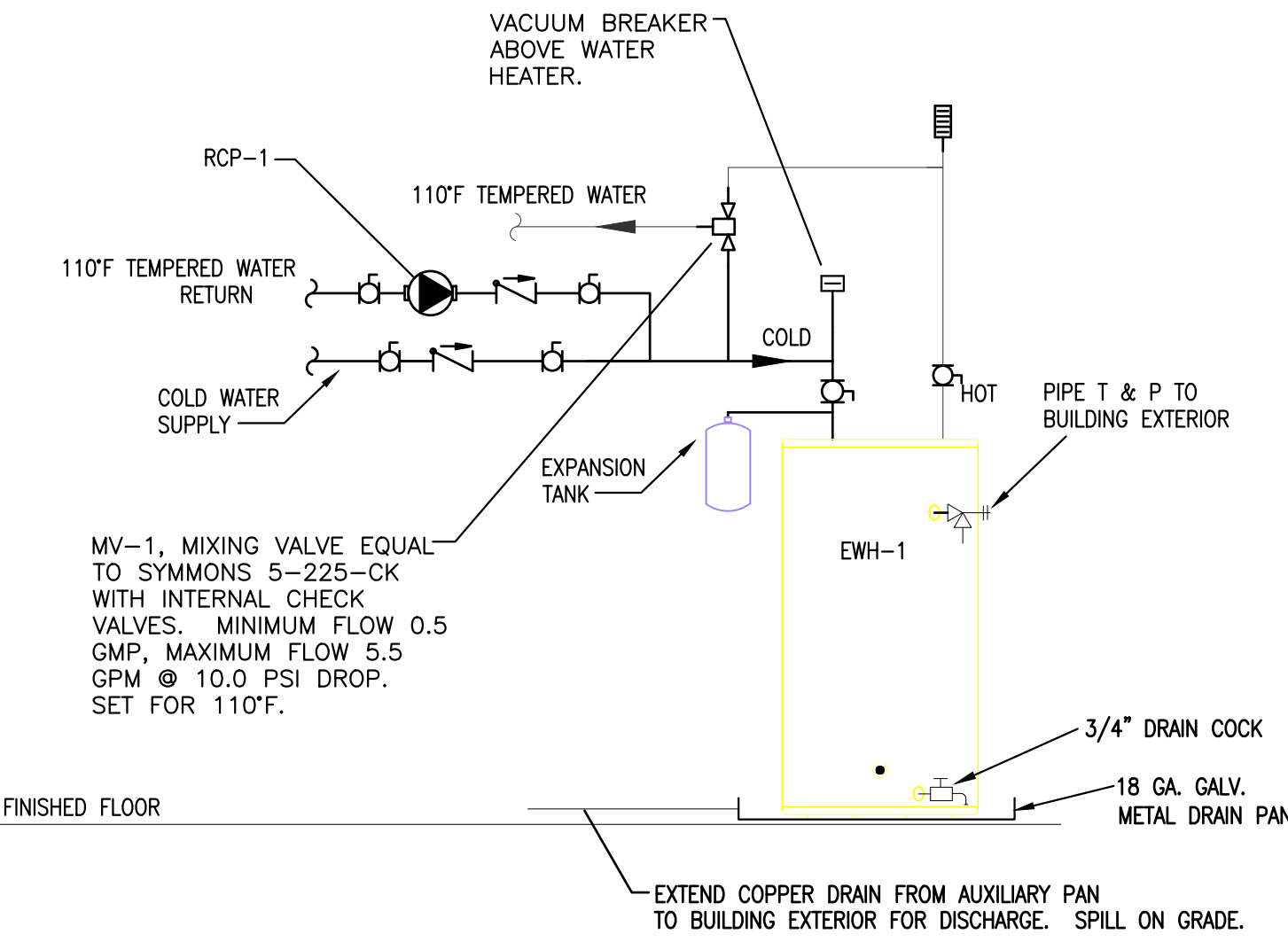
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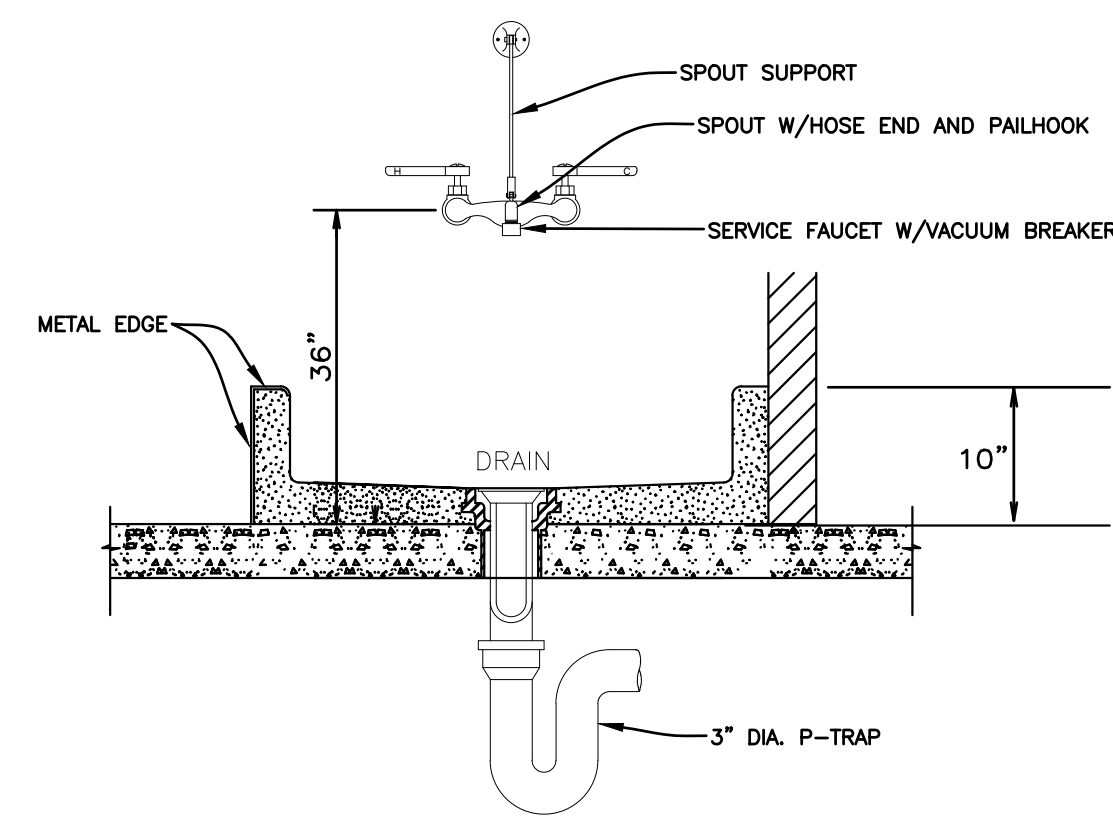
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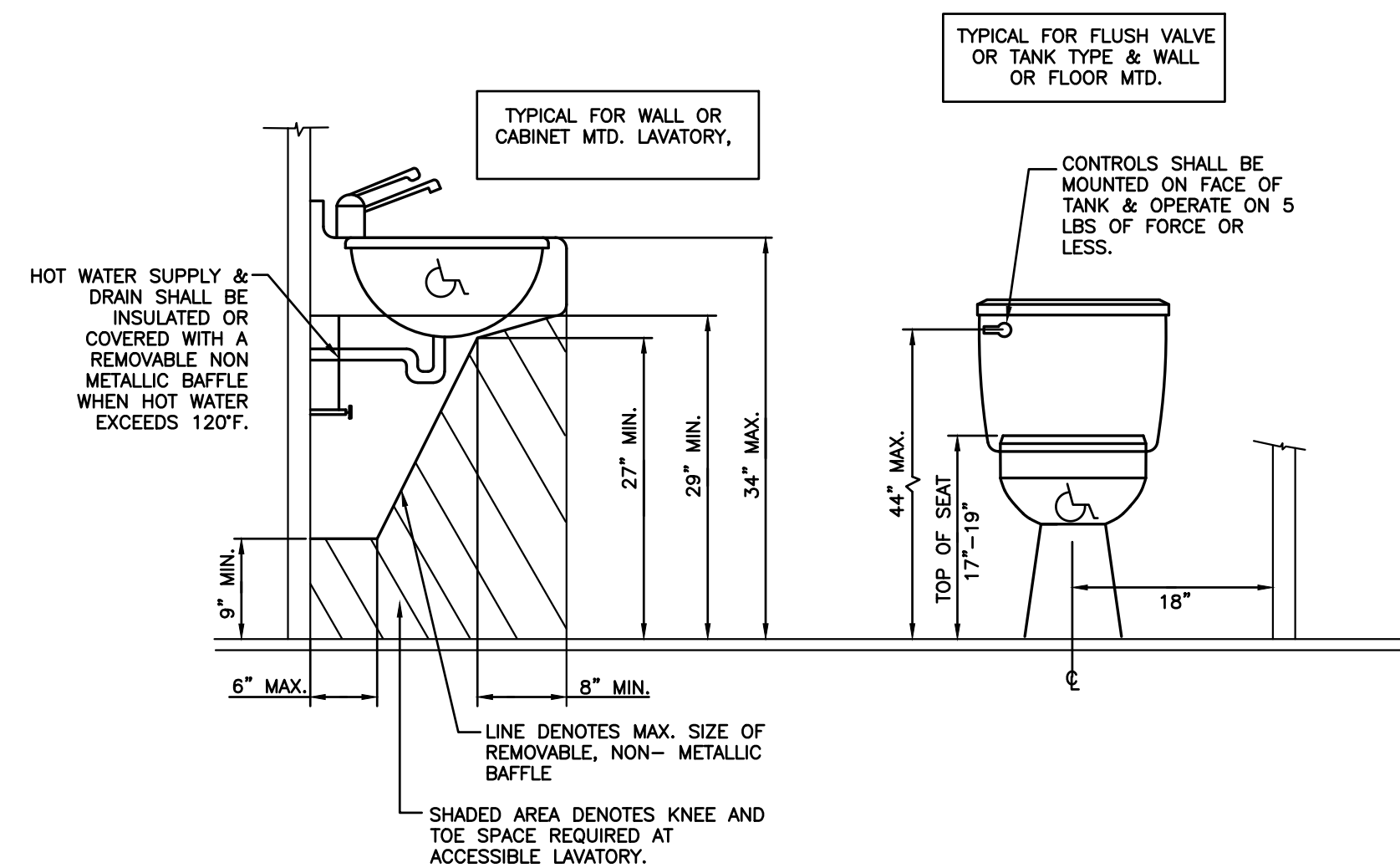
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VENT THRU ROOF DETAIL  
SCALE: NONE



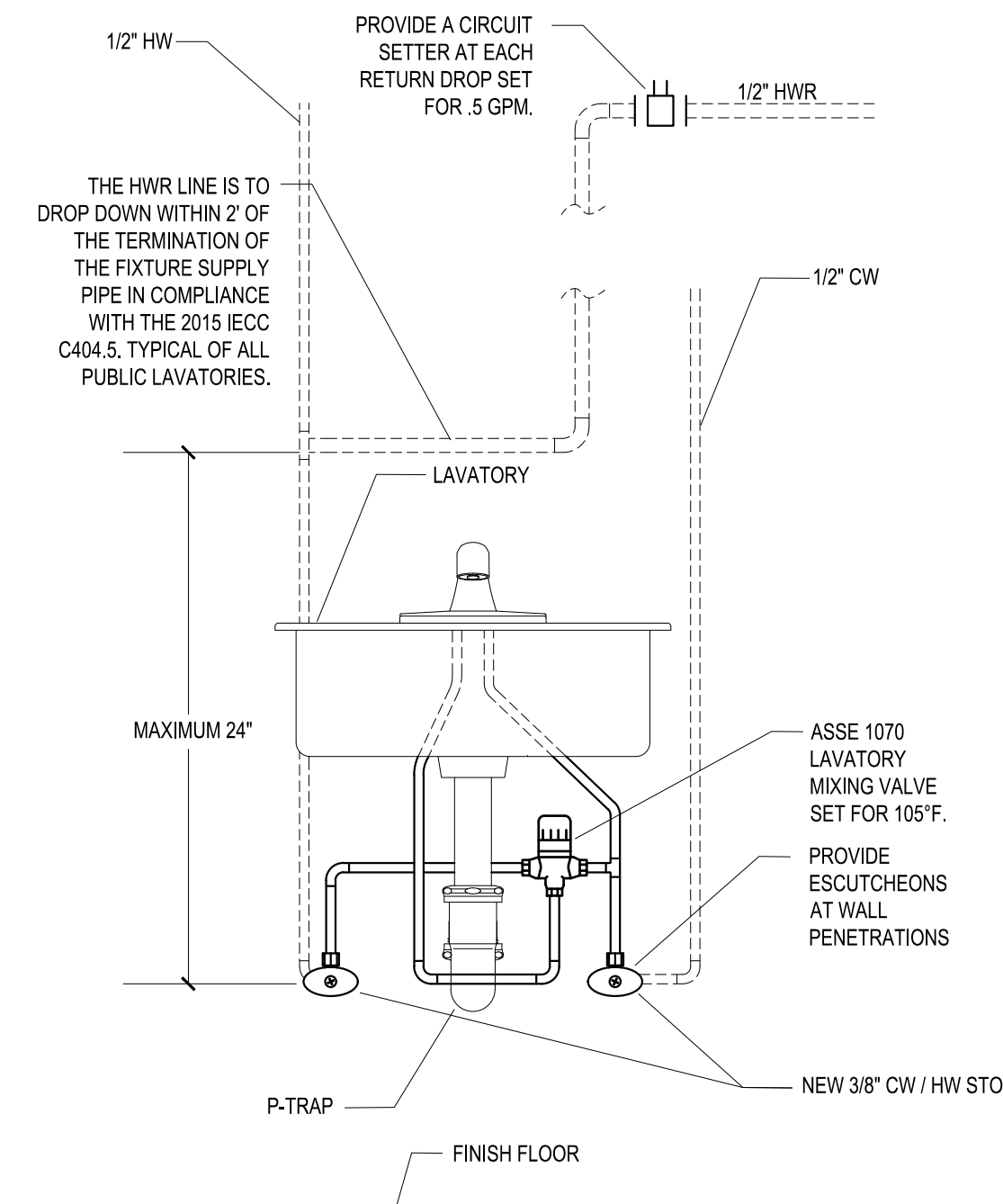
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DOMESTIC HOT WATER WITH RECIRC. DETAIL  
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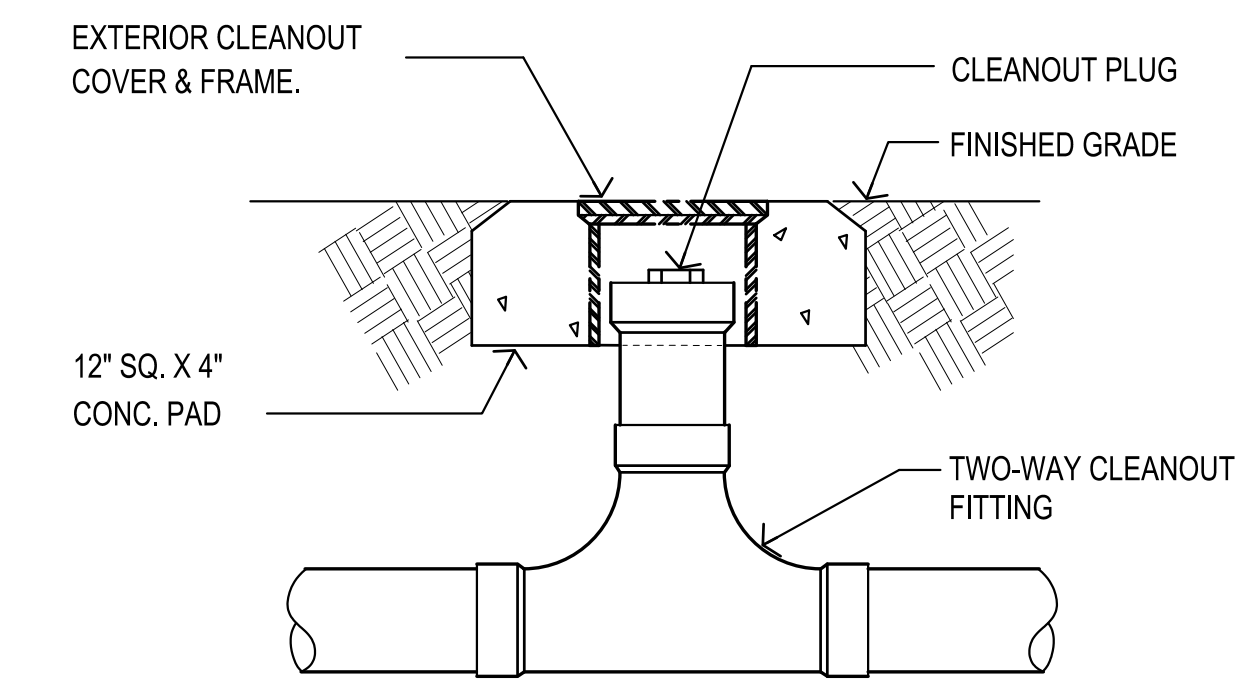
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MOP SINK DETAIL  
SCALE: NONE



**6**  
ADA PLUMBING FIXTURE INSTALLATION DETAIL  
SCALE: NONE



**7**  
LAVATORY MIXING VALVE DETAIL  
SCALE: NONE



**8**  
TWO-WAY CLEANOUT DETAIL  
SCALE: NONE



# A NEW BUILDING FOR ORANGE BEACH WILDLIFE CENTER

## ORANGE BEACH, ALABAMA



ORANGE BEACH  
**WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.: 21-06  
 DRAWN: CLT  
 CHECKED: SBM  
 DATE: 2021.06.01  
 REVISION:

SCALE: AS NOTED

SHEET NO.:

**T1.1**

TITLE SHEET  
 PHASE II

### GENERAL NOTES

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES, AND INDUSTRY STANDARDS FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.
2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED HEREIN. DEVIATIONS FROM THESE DRAWINGS ARE AT THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
3. IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
4. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUD OR MASONRY UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASE OF MATERIALS, FABRICATION, OR BEGINNING CONSTRUCTION.
6. PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN ALL SOIL WHICH FLOWS OFF-SITE.
7. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
8. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
9. NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES ARE ALLOWED.
10. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROMPTLY.
11. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
12. ALL MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS ARE TO BE FULLY COORDINATED WITH THE ARCHITECTURAL DOCUMENTS.
13. ALL PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE DESIGNED AND INSTALLED BY A STATE OF ALABAMA LICENSED AND CERTIFIED CONTRACTOR AND THEIR RESPECTIVE DISCIPLINE. PLUMBING CONTRACTOR SHALL SHOW EVIDENCE OF THEIR ALABAMA PLUMBERS AND GAS FITTERS LICENSE; HEATING AND COOLING CONTRACTOR'S LICENSE; AND ALABAMA ELECTRICAL CONTRACTOR'S LICENSE.
14. PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS SHALL PROVIDE THE OWNER WITH SHOP DRAWINGS AND SPECIFICATIONS PRIOR TO ORDERING AND INSTALLATION. ALL WORK SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL PLUMBING AND GAS CODES, 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL FIRE CODE, AND 2017 NATIONAL ELECTRICAL CODE.
15. **DO NOT SCALE DRAWINGS!** DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENT OVER NOTED DIMENSIONS.
16. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL COMPLY WITH OSHA REQUIREMENTS.
17. ALL EXTERIOR DOORS AND WINDOWS SHALL BE DESIGNED AND INSTALLED TO WITHSTAND DESIGN WIND LOADS BASED ON ASCE 7-16 AND 160 MPH WIND RATING.
18. ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

### PROJECT SUMMARY PHASE II

IN GENERAL, THE WORK FOR PHASE II OF THIS PROJECT WILL CONSIST OF A 2,368 SQUARE FOOT COMPLETE INTERIOR FITUP OF THE WILDLIFE SPACE. THIS FIT UP INCLUDES INTERIOR WALLS, DOORS, MILLWORK, FIXTURES, MECHANICAL EQUIPMENT, ELECTRICAL, APPLIANCES AND FINISHES THROUGHOUT. ALSO A 514 S.F. SECOND FLOOR OR "MEZZANINE" WILL BE PART OF THIS PHASE II, INCLUDING WOOD FRAMED STAIRS AND FINISHES.

IN GENERAL, PHASE II IS MEANT TO TAKE THE TRAIL SHOP/WILDLIFE CENTER FROM ITS STATE AT COMPLETION OF PHASE I TO A COMPLETE "TURN KEY" BUILDING WITH ALL BUILDING SYSTEMS IN PLACE AND IN NEW WORKING ORDER. UPON COMPLETION OF PHASE II THIS PROJECT IS MEANT TO BE MOVE IN READY.

### CONTACT INFORMATION

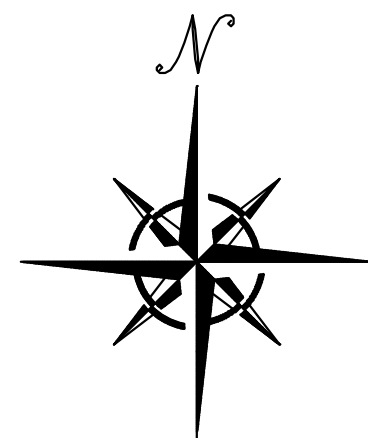
**ARCHITECT**  
 McCOLLOUGH ARCHITECTURE, INC.  
 CONTACT: STED McCOLLOUGH  
 4790 MAIN STREET #209  
 ORANGE BEACH, ALABAMA 36561  
 PHONE: 251-968-7222

**MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING**  
 STEWART ENGINEERING  
 CONTACT: WADE STEWART  
 40680 STATE HIGHWAY 59  
 BAY MINETTE, ALABAMA 36507  
 PHONE: 251-937-6313

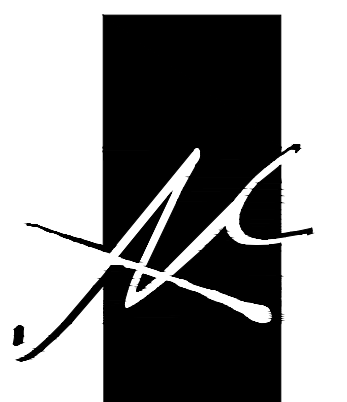
**STRUCTURAL ENGINEER**  
 LARRY M. OLIVER ENTERPRISES, INC.  
 CONTACT: LARRY OLIVER  
 7228 OAKBRIAR DRIVE S.  
 MOBILE, ALABAMA 36619  
 PHONE: 251-377-6101

### SHEET INDEX

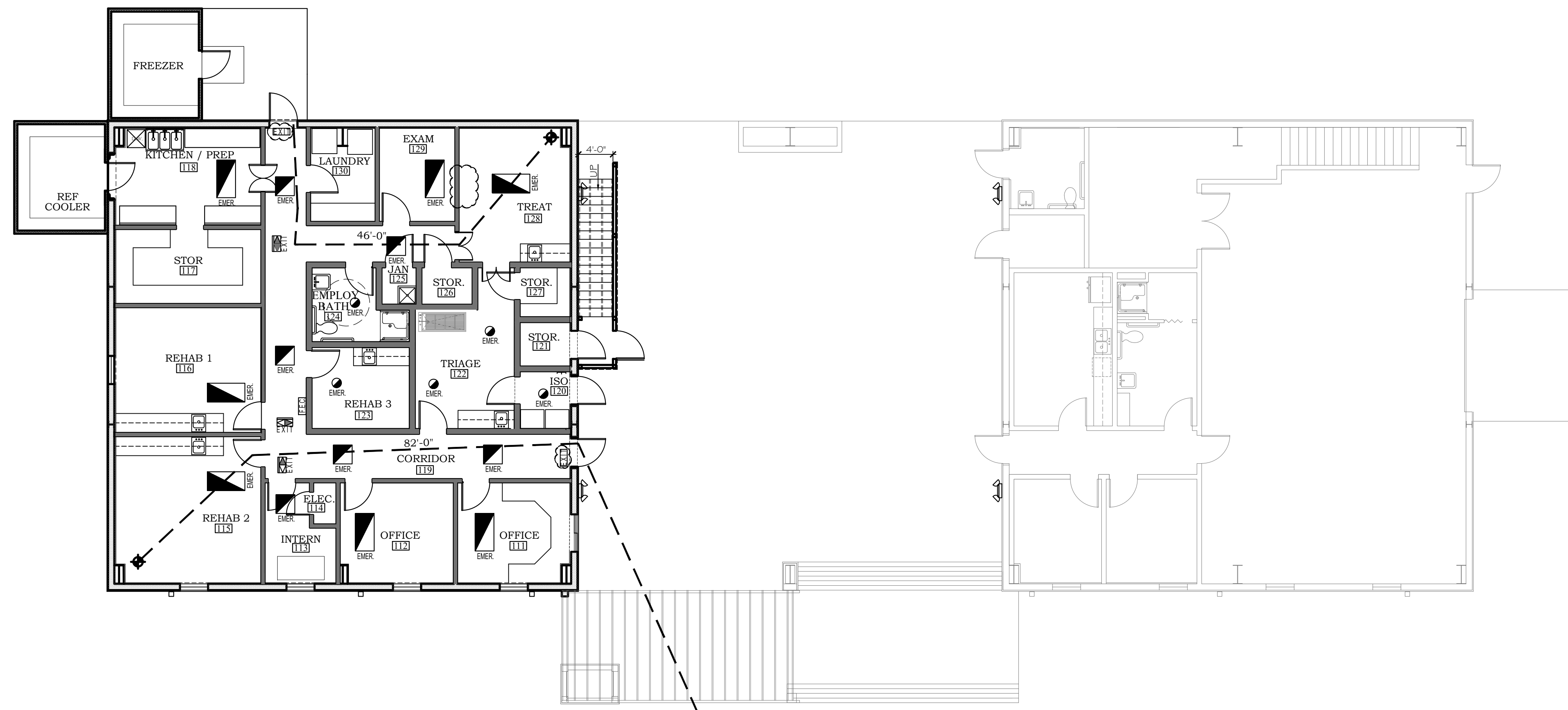
- TITLE**  
 T1.1 - TITLE SHEET AND GENERAL NOTES
- ARCHITECTURAL**  
 LS1.1 - LIFE SAFETY PLAN  
 A1.0 - ADA STANDARDS  
 A1.1 - FLOOR PLAN  
 A2.1 - DOOR, WINDOW & FINISH SCHEDULE  
 A3.1 - EXTERIOR ELEVATIONS  
 A4.1 - BUILDING SECTIONS  
 A4.2 - SECTIONS AND DETAILS  
 A5.1 - ENLARGED PLANS & INTERIOR ELEVATIONS  
 A6.1 - REFLECTED CEILING PLAN
- MECHANICAL**  
 M1.0 - HVAC LEGEND, NOTES AND SCHEDULES  
 M1.1 - HVAC PLAN FIRST FLOOR  
 M1.2 - HVAC PLAN SECOND FLOOR
- ELECTRICAL**  
 E1.0 - ELECTRICAL NOTES AND LEGEND  
 E1.1 - LIGHTING PLAN 1ST FLOOR  
 E1.2 - LIGHTING PLAN 2ND FLOOR  
 E2.1 - POWER & AUX FIRST FLOOR  
 E2.2 - POWER PLAN SECOND FLOOR  
 E3.0 - ELECTRICAL RISER AND DETAILS
- PLUMBING**  
 P1.0 - PLUMBING NOTES, SCHEDULES AND LEGEND  
 P1.1 - PLUMBING PLAN BASE BID  
 P2.0 - SANITARY WASTE RISERS



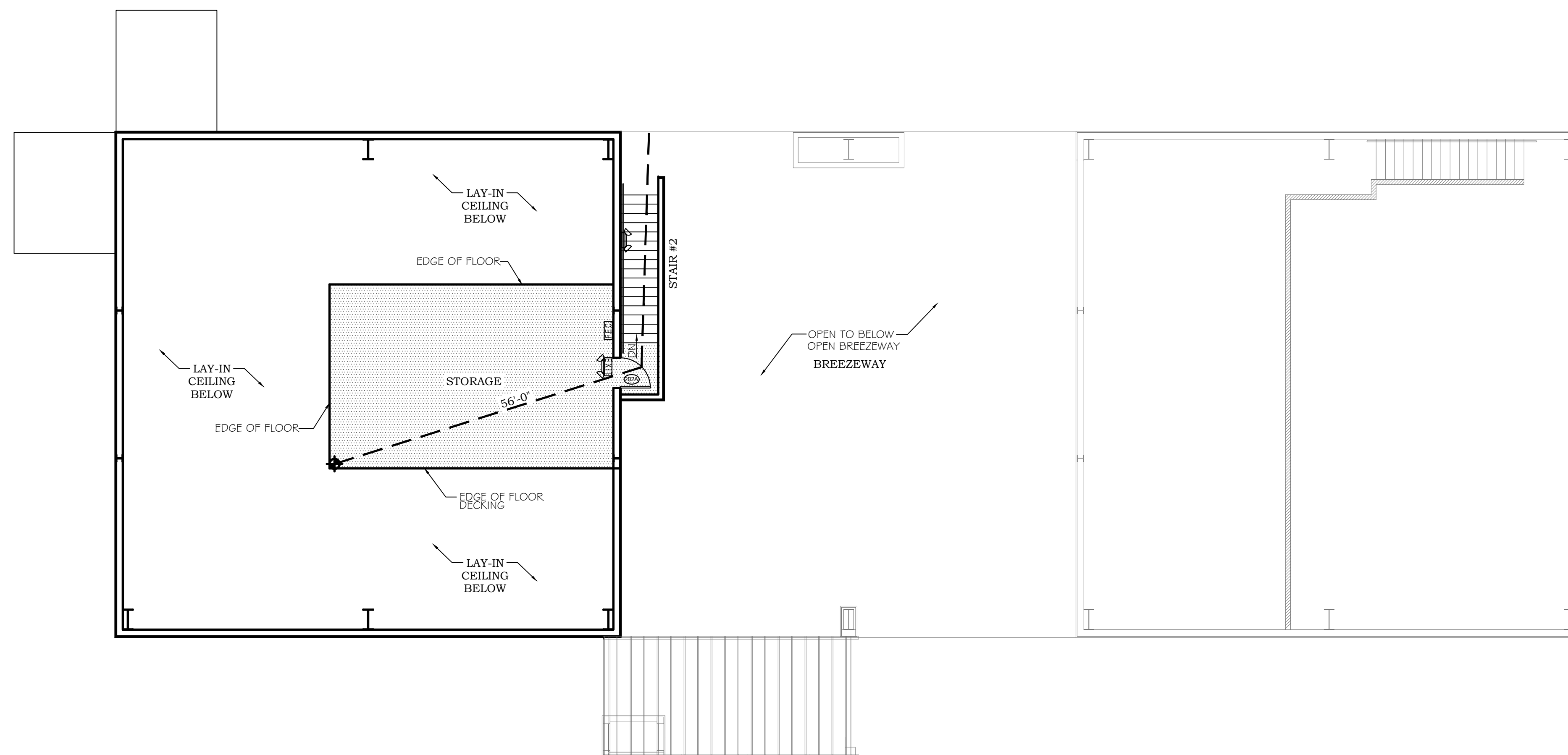




**McCOLLOUGH  
ARCHITECTURE, INC.**  
P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



**FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0" FLOORED AREA: 2,368 S.F.



**SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0" FLOORED AREA: 514 S.F.

**GENERAL NOTES**

ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING PHASE I  
ALL DOOR THRESHOLDS TO HAVE MAXIMUM 1/2" TRANSITION, RE: A.I.O

**LEGEND**

- 47' - DISTANCE IN FEET  
EXIT TRAVEL DISTANCE
- [EXIT SIGN] - EXIT SIGN WITH EMERGENCY LIGHTING
- [EXIT SIGN WITH ARROW] - HATCH INDICATES DIRECTION  
DIRECTIONAL ARROW  
EXIT SIGN
- [BATTERY PACK] - BATTERY PACK EMERGENCY LIGHTS
- [FIRE EXTINGUISHER] - FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
- [HATCH] - 2ND FLOOR - FLOORED AREA (FOR CLARITY)

**PROJECT SUMMARY**

THIS PROJECT PROVIDES FOR A NEW BUILD OUT (APPROXIMATELY 2,882 SQUARE FEET UNDER ROOF) FOR ORANGE BEACH COASTAL RESOURCES WILDLIFE CENTER. THE WILDLIFE CENTER SPACES INCLUDE TREATMENT AND SUPPORT ROOMS FOR ANIMALS AND ADMINISTRATIVE OFFICES.  
THE OVERALL STRUCTURE IS A PRE-ENGINEERED METAL BUILDING STRUCTURE BUILT DURING PHASE I. THIS PHASE II BUILD OUT INCLUDES WOOD-FRAMED INTERIOR WALL CONSTRUCTION.

**APPLICABLE BUILDING CODES**

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRICAL CODE
- AMERICANS WITH DISABILITIES ACT (ADA)

**PROJECT CODE DATA**

-CONSTRUCTION TYPE	IIB, UNSPRINKLERED
-OCCUPANCY	MIXED, NON-SEPARATED <sup>1</sup>
<small>PHASE II-BUSINESS (WILDLIFE CENTER)-2,882 @ 150 S.F./PERSON= 20 PEOPLE                  PHASE I-SI (MAINTENANCE SHOP)- 3,390 @ 100 S.F./PERSON= 34 PEOPLE                  PHASE I-BUSINESS (BREEZEWAY)-2,265 @ 150 S.F./PERSON= 16 PEOPLE</small>	
-OCCUPANT LOAD	70 PEOPLE
-TOTAL AREA UNDER ROOF	8,852 S.F.
-FIRE RATED WALLS	NONE <sup>2</sup>
-REQUIRED EXIT TRAVEL DISTANCE	<200'
-REQUIRED FIRE EXTINGUISHER/PROVIDED	3,000 S.F./75FT. TRAVEL

<sup>1</sup> UNSEPARATED MIXED OCCUPANCY (B) BUSINESS; (SI) STORAGE  
<sup>2</sup> CORRIDOR FOR WILDLIFE CENTER SERVES LESS THAN 30 PEOPLE (NO RATING)

**ORANGE BEACH  
WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**LS1.1**

LIFE SAFETY PLAN

**PHASE II**



# ACCESSIBLE NOTES:

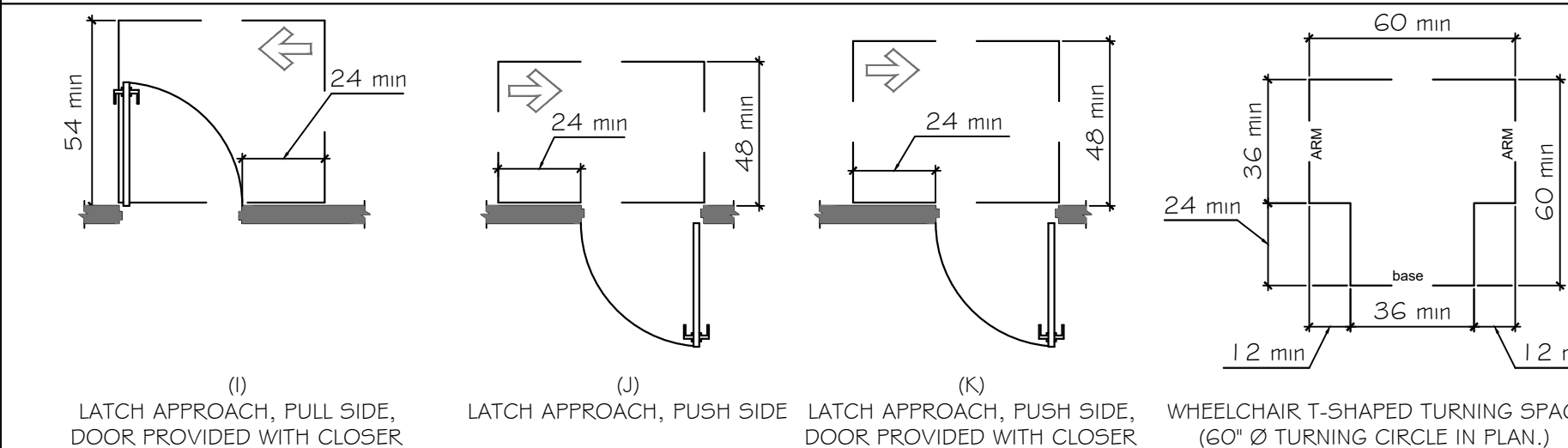
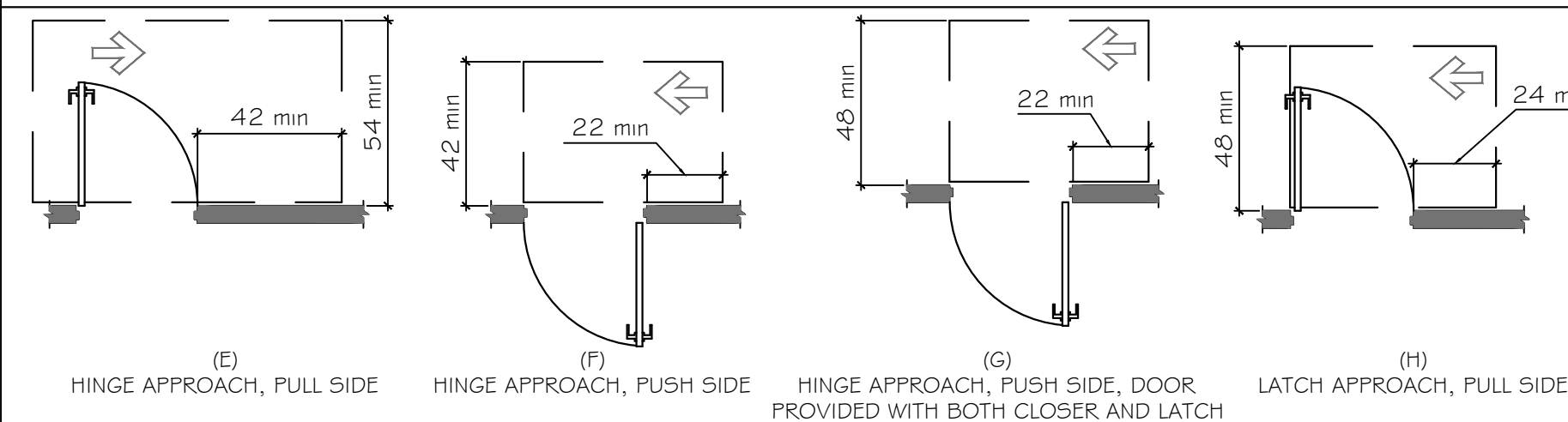
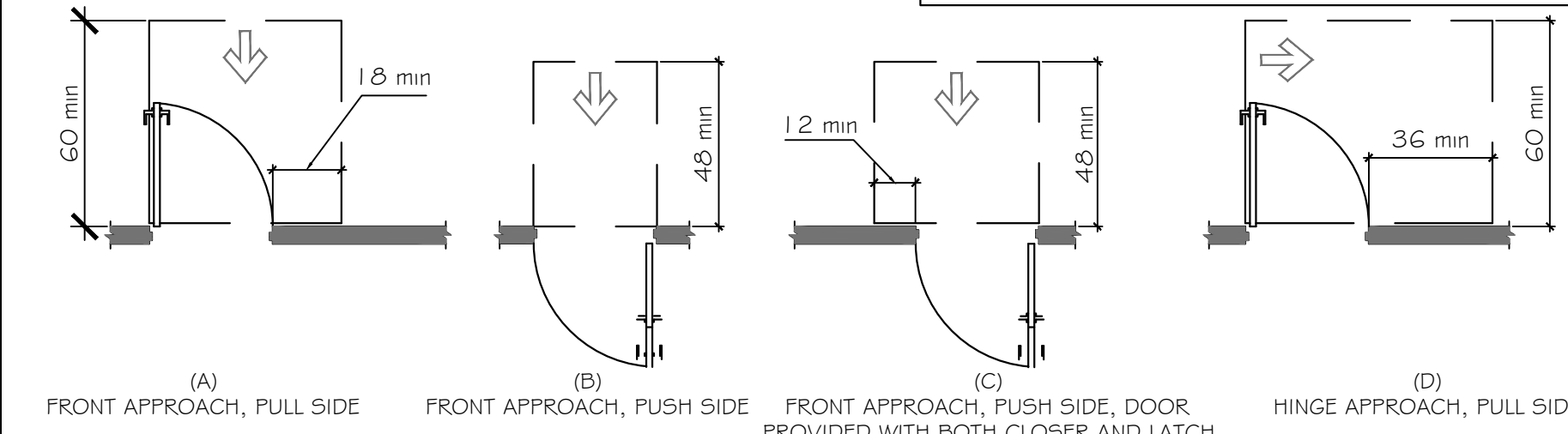
## 1/A1.0 ADA COMPLIANCE DOOR SWINGS AND CLEARANCES

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5# MAXIMUM.

404.2.7 DOOR & GATE HARDWARE. DOOR HARDWARE THAT CAN BE OPERATED WITH A CLOSED FIST OR A LOOSE GRIP ACCOMMODATES THE GREATEST RANGE OF USERS. HARDWARE THAT REQUIRES SIMULTANEOUS HAND AND FINGER MOVEMENTS REQUIRE GREATER DEXTERITY AND COORDINATION, AND IS NOT RECOMMENDED.

DOOR PULLS TO HAVE ACCESSIBLE LEVERS AND NOT TO EXCEED 5LBS. OF FORCE REQUIRED TO OPEN

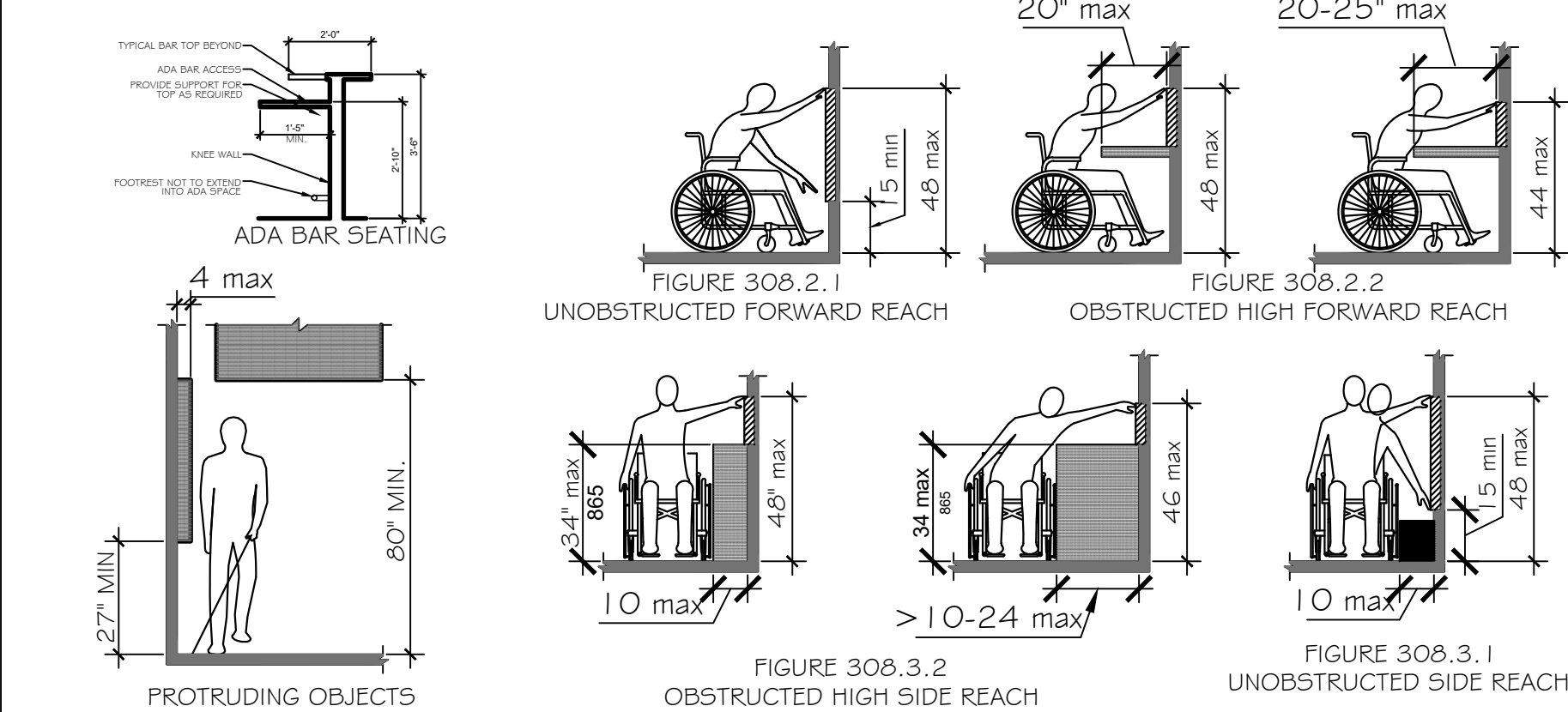
### SEC. 404 : 2010 ADA STANDARDS



## 2/A1.0 REACH / PROTRUDING OBJECTS

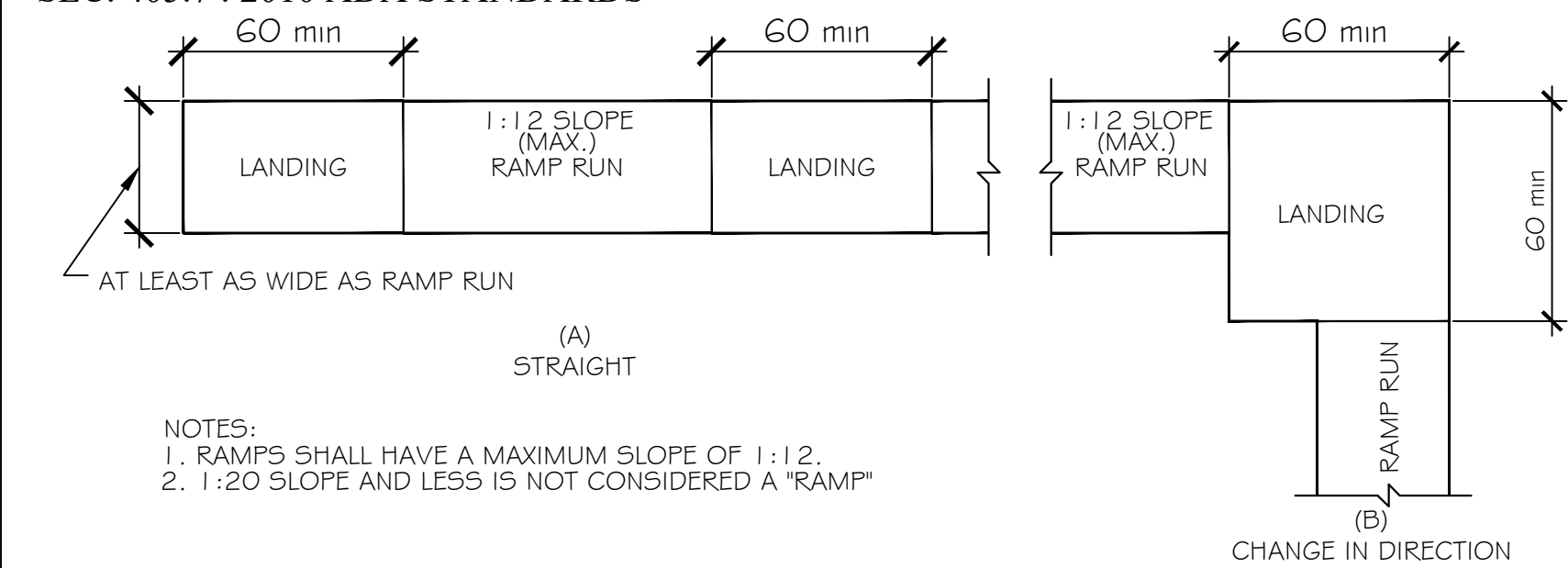
THE FOLLOWING DIAGRAMS SHALL BE TYPICAL FOR ALL ADA COMPLIANT CONDITIONS FOR MOUNTED OBJECTS: (INCLUDING BUT NOT LIMITED TO HAND DRYERS, SOAP DISPENSERS, AND PAPER TOWEL DISPENSERS)

### SEC. 308 : 2010 ADA STANDARDS



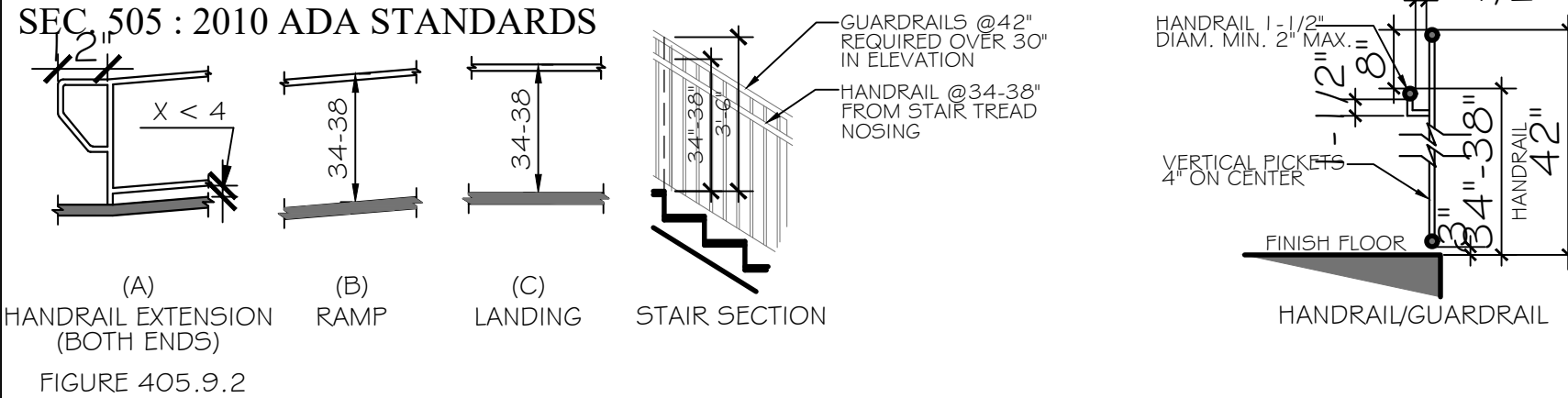
## 3/A1.0 ADA COMPLIANT RAMPS

### SEC. 405.7 : 2010 ADA STANDARDS



## 4/A1.0 RAILINGS

### SEC. 505 : 2010 ADA STANDARDS

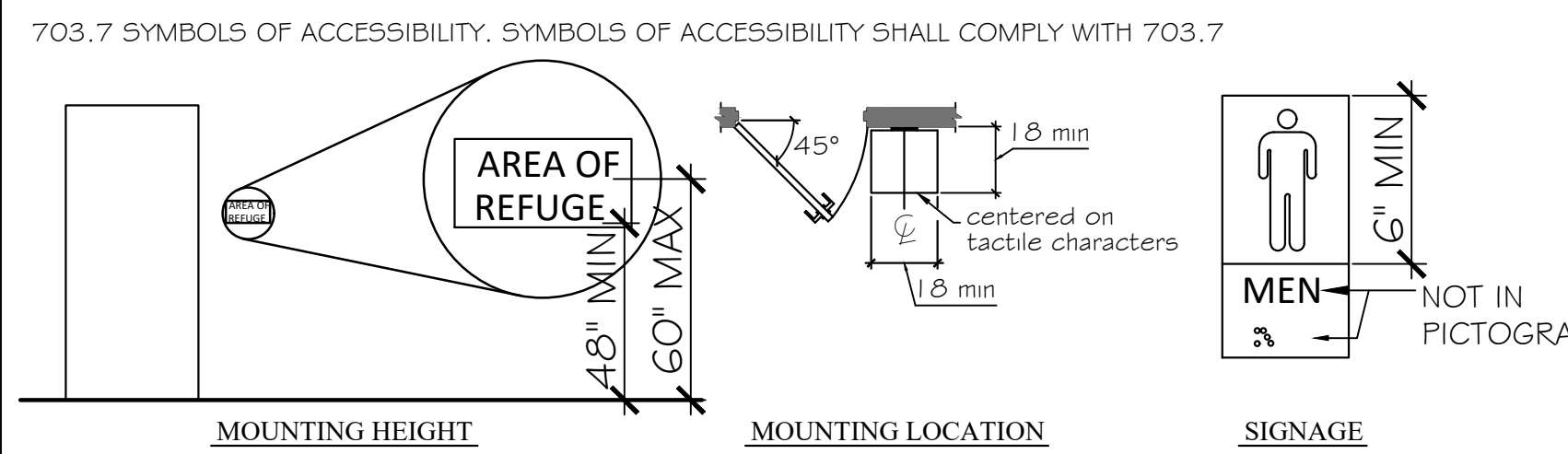


## 5/A1.0 COMMUNICATION ELEMENTS AND FEATURES

### SEC. 703 : 2010 ADA STANDARDS

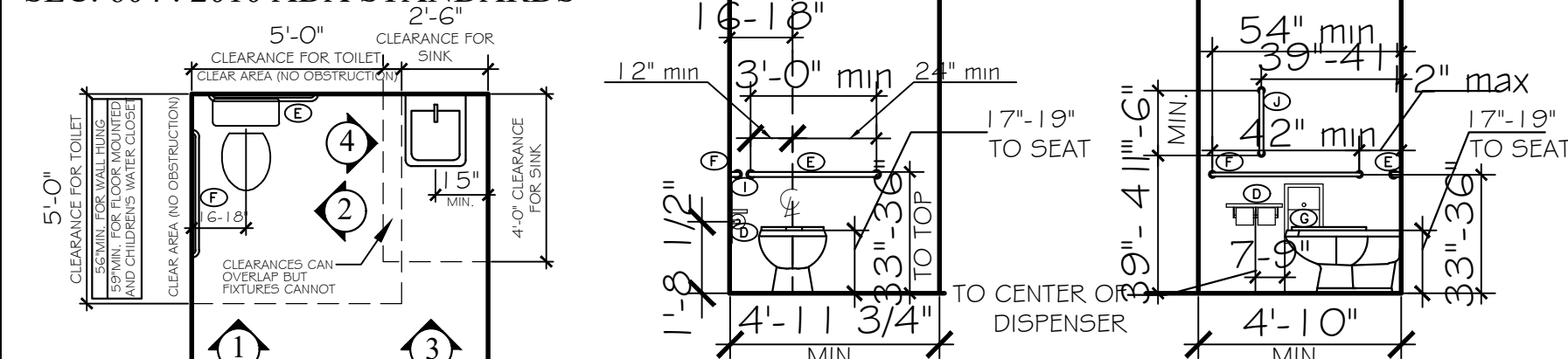
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 1.8 INCHES (45.5 MM) MINIMUM BY 1.8 INCHES (45.5 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7



## 6/A1.0 ADA ACCESSIBLE BATHROOM FIXTURES/ACCESSORIES

### SEC. 604 : 2010 ADA STANDARDS



### ACCESSIBLE TOILET/SINK CLEARANCE PLAN

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

OBSTRUCTED FIXTURES SHALL BE MOUNTED ACCORDING TO SECTION 2/A1.0

PLASTIC LAMINATE COUNTERTOP CLOSURE (IF APPLICABLE)

WHEN NOT OBSTRUCTED

ACCESS PANEL

WALL OR PARTITION

ACCESSIBLE URINAL CLEARANCE PLAN

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

BABY CHANGING STATION

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

ELECTRIC WATER COOLER

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

ACCESSIBLE URINAL

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

ACCESSIBLE TRANSFER SHOWER

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

PER ADA 608.2.1

ACCESSIBLE ROLL-IN SHOWER

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

PER ADA 608.2.2

MIN. CLEARANCE OF 1.5' BELOW GRAB BAR

SEE ALSO DETAIL 2 FROM SECTION 6/A1.0 ABOVE FOR DISTANCE FROM TOILET

48" MAX REACH RANGE

PUSH BUTTON

FINISHED FLOOR

SOAP DISPENSERS (TO PUSH BUTTON)

PAPER TOWEL DISPENSER & DISPOSAL

HAND DRYER (TO START BUTTON)

TOILET PAPER/ SANITARY NAPKIN DISPENSER

SHELF

OBSTRUCTED FIXTURES SHALL BE MOUNTED ACCORDING TO SECTION 2/A1.0

SHELVES TO BE 40" MIN. - 48" MAX A.F.F.

ALLOWED IF TRANSITION IS BEVELED

1/2" MAX. LEVEL CHANGE N.T.S.

A CHANGE IN LEVEL OF 1/2 INCH IS PERMITTED TO BE 1/4" VERTICAL, PLUS 1/4" BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2".

BEVEL NOT REQUIRED IF 1/4" OR LESS N.T.S.

1/4" CHANGE IN LEVEL N.T.S.

1/4" CHANGE IN LEVEL N.T.S.

1/4" CHANGE IN LEVEL N.T.S.

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1/4" CHANGE IN LEVEL N.T.S.

1/4" CHANGE IN LEVEL N.T.S.

### ACCESSORIES LEGEND

SYMBOL	DESCRIPTION
(A)	ACCESSIBLE MIRROR UNIT
(B)	SOAP DISPENSER
(C)	ELECTRIC HAND DRYER
(D)	TOILET PAPER DISPENSER
(E)	36" REAR GRAB BAR
(F)	42" SIDE GRAB BAR
(G)	SANITARY NAPKIN DISPOSAL
(H)	BABY CHANGING STATION
(I)	PAPER TOWEL DISPENSER / WASTE RECEPTACLE COMBO
(J)	VERTICAL GRAB BAR
(K)	DRINKING FOUNTAIN

DIMENSIONS SHOWN MAY VARY DEPENDING ON OBSTRUCTIONS. REFERENCE 2/A1.0

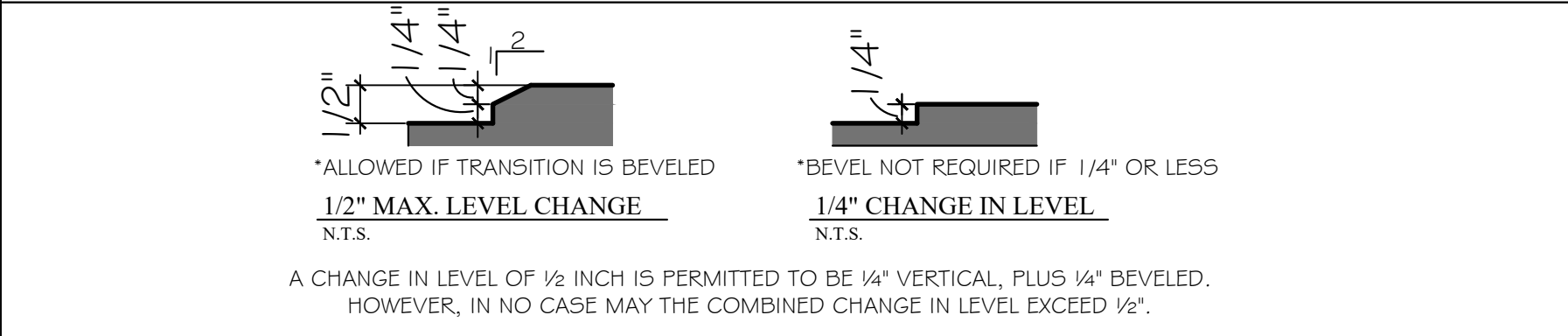
### ADA TOILET COMPARTMENTS

DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA

TOILET COMPARTMENT DOORS SHALL HAVE ADA DOOR PULLS ON EACH SIDE

DOORS SHALL BE SELF CLOSING

## 7/A1.0 THRESHOLD CONDITIONS SEC. 303 : 2010 ADA STANDARDS



## ABBREVIATION LEGEND

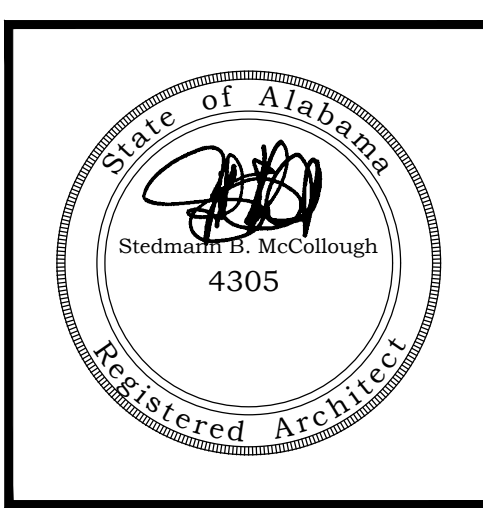
ABBREV.	TERM
ACC.	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
ASSEM.	ASSEMBLY
B.B.	BEAD BOARD
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
DIM	DIMENSION(S)
DW	DISHWASHER
ELEC.	ELECTRIC / ELECTRICAL
ELEV.	ELEVATOR
EQUIP.	EQUIPMENT
E.P.	EPOXY PAINT
EXT.	EXTERIOR
EWC	ELECTRIC WATER COOLER
FE	FIRE EXTINGUISHER CABINET
FG.	FIBERGLASS
FIN.	FINISH / FINISHED
FLR.	FLOOR
FRP	FIBER-REINFORCED PLASTIC
FT.	FOOT / FEET
GFI	GROUND FAULT INTERRUPTOR
GYP.BD.	GYP. BOARD
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
INT.	INTERIOR
JAN.	JANITOR
MAX	MAXIMUM
MECH.	MECHANICAL
MT.	METAL
MICRO.	MICROWAVE
MIN.	MINIMUM
M.R.	MOISTURE RESISTANT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PRE-FAB	PRE FABRICATED
PT.	PAINT / PAINTED
P.T.	PRESSURE TREATED
Q.T.	QUARRY TILE
REF.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
SC.	SOLID CORE
S.F.	SQUARE FOOT / FEET
SHWR.	SHOWER
S.S.	SCORED & STAINED
S/S	STAINLESS STEEL
ST.	STAINED
STOR.	STORAGE
TYP.	TYPICAL
UIC	UNDER COUNTER
VEND.	VENDING MACHINE
V.W.P.	VINYL WOOD PLANK
WD	WOOD
W	WITH
WD	WASHER DRYER
WO	WITH OUT

## PLAN MARKER/TAG LEGEND

130	ROOM NUMBER
234	DOOR NUMBER
1 ACJ	INTERIOR ELEVATION
BB' A4.2	SECTION CUT LOCATION MARKER
A A2.5	DETAIL MARKER
WALL TYPE NUMBER	INTERSECTS WALL REFERENCED
STOREFRONT TYPE	STOREFRONT TYPE
9'-0"	ELEVATION MARKER
2	REVISION MARKER

## GENERAL NOTES

- ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
- THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
- IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
- CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
- DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
- DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION
- PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
- ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
- PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
- NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
- ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
- THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY W/ OSHA REQUIREMENTS.
- ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL PLUMBING, AND MECHANICAL.



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WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

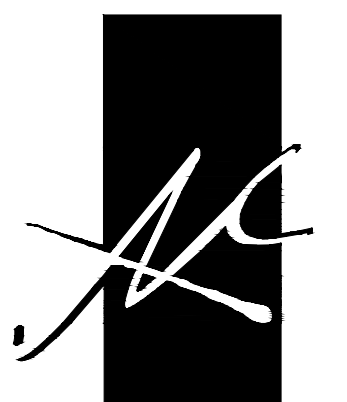
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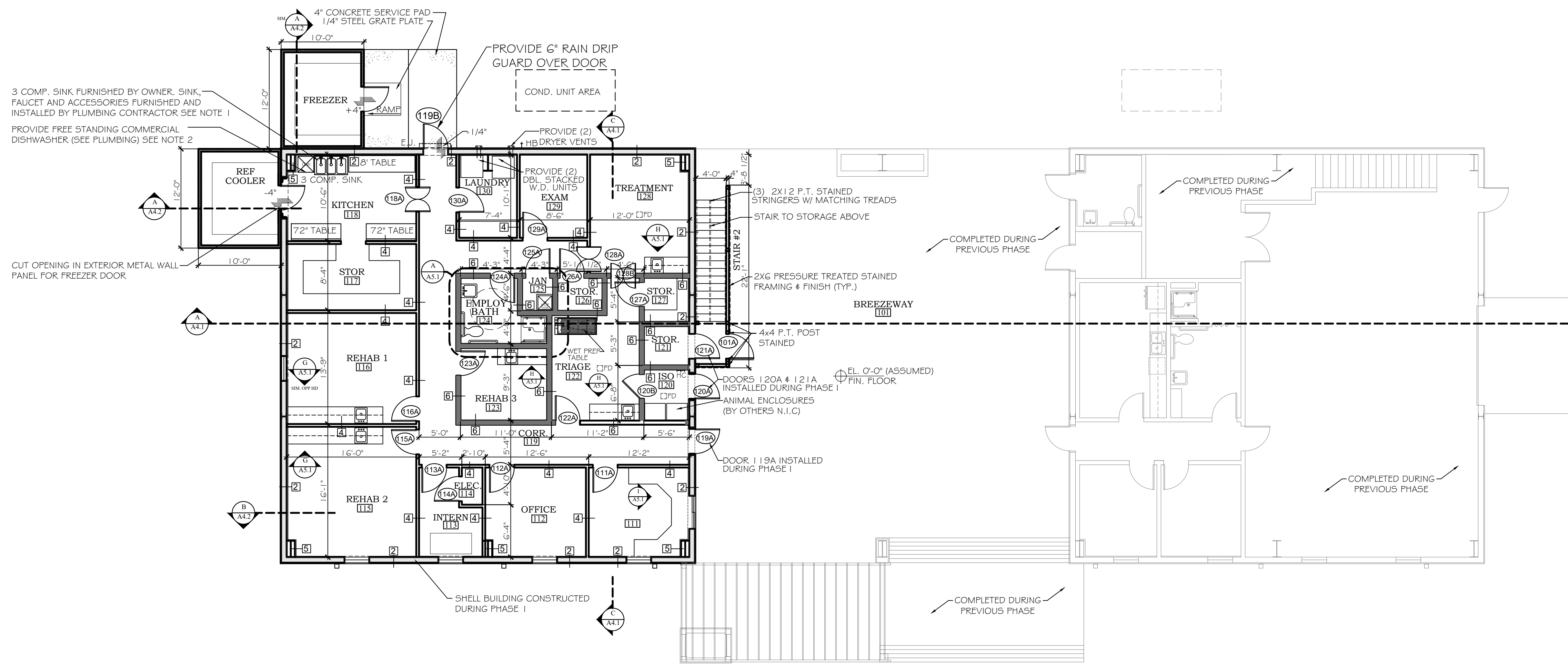
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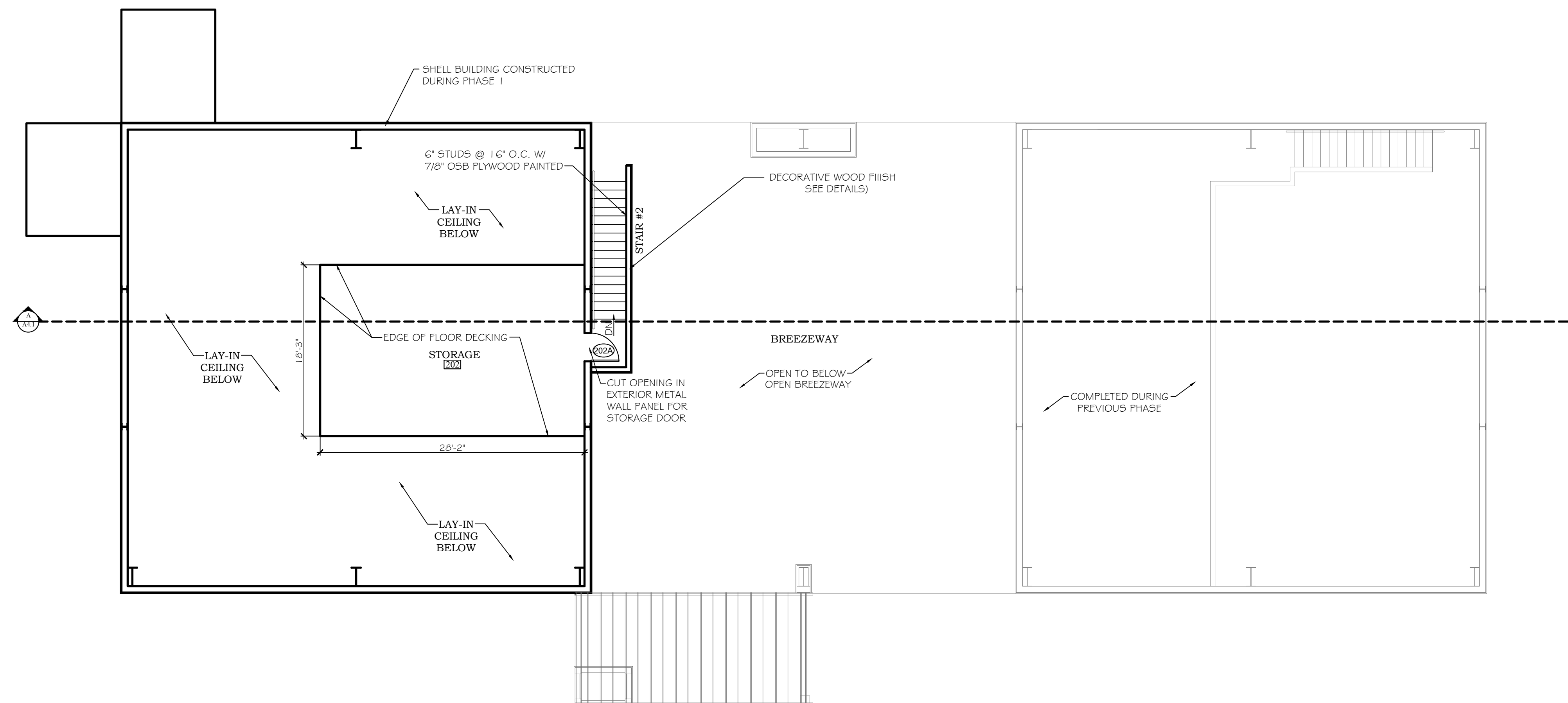
ADA STADARDS



**McCOLLOUGH  
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P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



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



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

NOTE: ALL INTERIOR WALLS TO RECEIVE BATT INSULATION. 2X4 WALLS TO RECEIVE R-13, 2X6 WALLS TO RECEIVE R-19.

**GENERAL NOTE**

ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING PHASE I

**WALL TYPES**

- 1 EXTERIOR METAL BUILDING WALL OF THIS TYPE WITH 1 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED
- 2 EXTERIOR METAL BUILDING WALL WITH 1 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED
- 3 EXTERIOR METAL BUILDING WALL OF THIS TYPE WITH 1 1/2" METAL WALL PANEL, 8" STEEL PURLINS AND SIMPLE SAVER INSULATION. PROVIDE 2" METAL STUDS @ 16" O.C. AT INSIDE WALL WITH 3/8" GYP. BD. PAINTED. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- 4 INTERIOR WALL PROVIDE 2X4" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- 5 PROVIDE 2" METAL STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED
- 6 INTERIOR WALL PROVIDE 2X6" WOOD STUDS @ 16" O.C. WITH 3/8" GYP. BD. PAINTED EACH SIDE. PROVIDE DOUBLE TOP PLATE AND PRESSURE TREATED BOTTOM PLATE (SEE STRUCTURAL)
- 7 WALL 48" A.F.F. OF STORAGE. PROVIDE THIS TYPE OF STUDS @ 16" O.C. W/ 7/8" OSB PLYWOOD PAINTED. PROVIDE 1" X 6" FIR TOP CAP AND 1" X 2" FIR CASING
- 8 SHIP LAP SIDING OVER PEEL AND STICK ICE AND WATER SHIELD OVER 3/4" OSB PLYWOOD ON WOOD STUDS @ 16" O.C.

ORANGE BEACH  
**WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**A1.1**

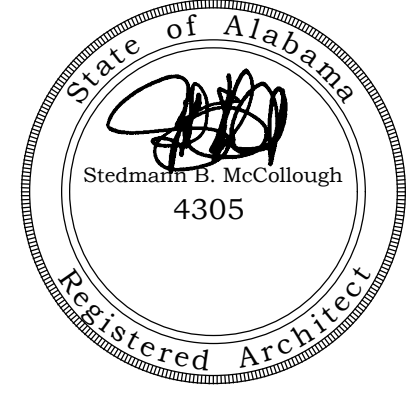
FLOOR PLANS

PHASE II





**McColough  
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36547-6310  
PHONE: 251-968-7222



**ORANGE BEACH  
WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**A2.1**

DOOR, WINDOW & FINISH SCHEDULE

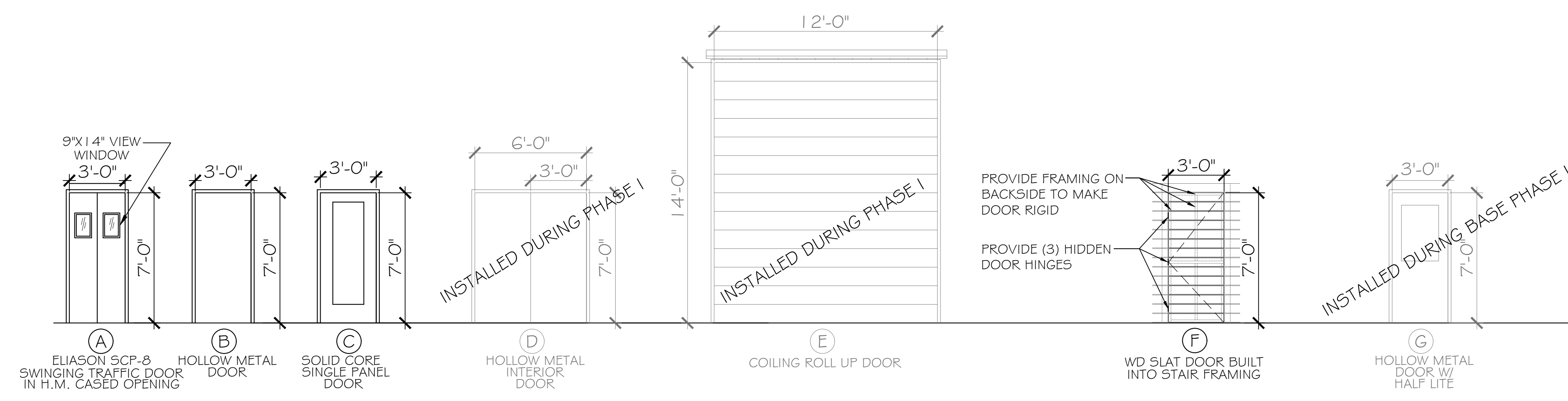
DOOR SCHEDULE												
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR LOCATION	DOOR FINISH	FRAME			RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
						FRAME TYPE	FRAME FINISH					
I 01A	3'-0" X 7'-0"	F	WOOD	EXTERIOR	PAINT	WOOD	STAIN	-	-	-	-	WOOD SLAT DOOR TO MATCH STAIR FRAMING
I 02A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 03A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 04A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 04B	3'-0" X 7'-0"	B	METAL	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 05A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 06A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 07A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 08A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 09A	PR 3'-0" X 7'-0"	D	METAL	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 10A	12'-0" X 12'-0"	E	METAL	EXTERIOR	-	-	-	-	-	-	-	INSTALLED DURING PHASE I
I 10B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 11A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 12A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 13A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 14A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 15A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 16A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 18A	PR 1'-6" X 7'-0"	A	WD W/ LAM.	INTERIOR	-	METAL	PAINT	-	-	-	-	HARDWARE BY DOOR MANF.
I 19A	3'-0" X 7'-0"	G	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 19B	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 20A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 20B	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 21A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 22A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 23A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 24A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	** CLOSER BY DOOR MANF.
I 25A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 26A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 27A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 28A	PR 1'-6" X 7'-0"	A	WD W/ LAM.	INTERIOR	-	METAL	PAINT	-	-	-	-	HARDWARE BY DOOR MANF.
I 28B	PR 1'-6" X 7'-0"	A	WD W/ LAM.	INTERIOR	-	METAL	PAINT	-	-	-	-	HARDWARE BY DOOR MANF.
I 29A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
I 30A	3'-0" X 7'-0"	C	WOOD	INTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I
202A	3'-0" X 7'-0"	B	METAL	EXTERIOR	PAINT	METAL	PAINT	-	-	-	-	INSTALLED DURING PHASE I

NOTES: PROVIDE PULL AND PUSH PLATES, KICK PLATES AND CLOSER

ROOM NAME	FLOOR		WALLS		CEILING		REMARKS
	FLOORS	BASE	MATERIALS	FINISH	MATERIAL	FINISH	
101 BREEZEWAY	SEALED CONCRETE	EXPOSED METAL BUILDING	METAL PANEL SIDING	-	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	COMPLETED DURING PHASE I
102 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
103 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
104 HALL	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
105 BREAKROOM	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
106 BATH	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
107 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
108 BATH	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	PAINT	GYP. BD.	-	COMPLETED DURING PHASE I
109 TOOLS	SEALED CONCRETE	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING	EXPOSED METAL BUILDING	GYP. BD.	-	COMPLETED DURING PHASE I
110 SHOP	SEALED CONCRETE	EXPOSED METAL BUILDING	PLYWOOD AT MEZZ. WALL / METAL BUILDING	EXPOSED METAL BUILDING	EXPOSED METAL BUILDING	-	COMPLETED DURING PHASE I
111 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
112 OFFICE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
113 INTERN	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
114 ELECTRICAL	SEALED CONCRETE	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
115 REHAB #2	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	
116 REHAB #1	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	
117 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
118 KITCHEN / PREP.	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	* PROVIDE VINYL FACED WASHABLE LAY IN . CEIL. SURFACE
119 CORRIDOR	VCT	6" VINYL	GYP. BD	PAINT	LAY IN CEILING	-	
120 ISOLATION	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	
121 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	
122 TRIAGE	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	
123 REHAB #3	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	
124 EMPLOYEE BATH	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	
125 JANITOR	SEALED CONCRETE	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	GYP. BD.	PAINT	
126 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	
127 STORAGE	VCT	6" VINYL	GYP. BD	PAINT	GYP. BD.	PAINT	
128 TREATMENT	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	
129 EXAM	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	
130 LAUNDRY	VCT	6" VINYL	MOISTURE RESISTANT GYP. BD	FRP	LAY IN CEILING	-	
201 STORAGE	EXPOSED PLYWOOD	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING				COMPLETED DURING PHASE I
202 STORAGE	EXPOSED PLYWOOD	EXPOSED METAL BUILDING	EXPOSED FRAMING / METAL BUILDING				COMPLETED DURING PHASE I

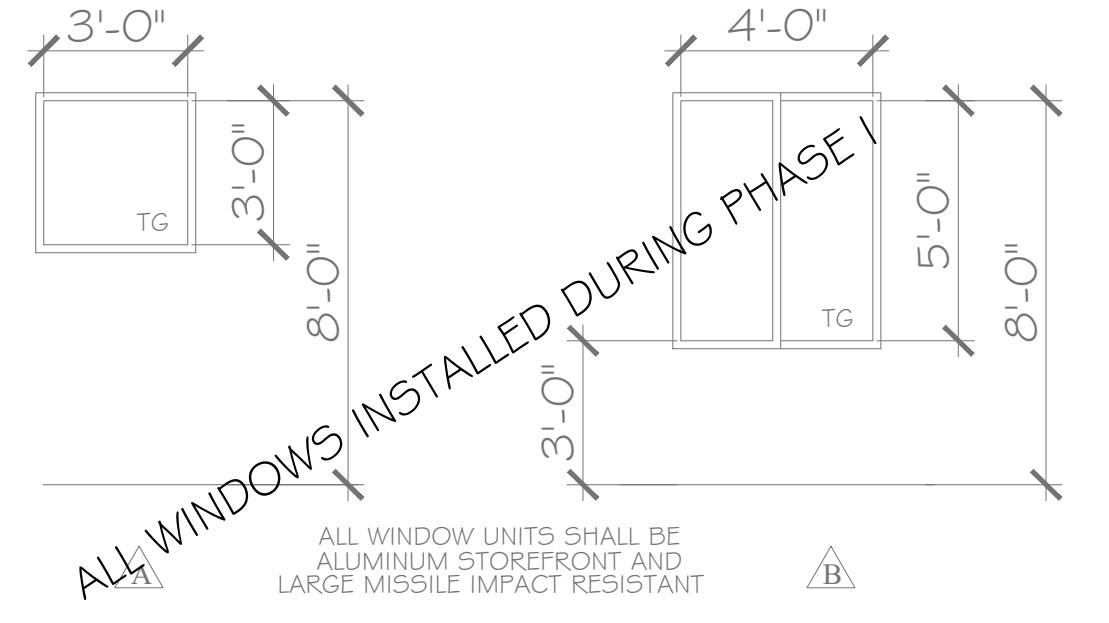
NOTES: \* ALL FRP PANELS INSTALLED TO 9'-0" A,F,F.  
VCT - 12"X12" 1/8" STANDARD VINYL COMPOSITION TILE

**GENERAL NOTES**  
ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING PHASE I



**DOOR FRAME / TYPES**

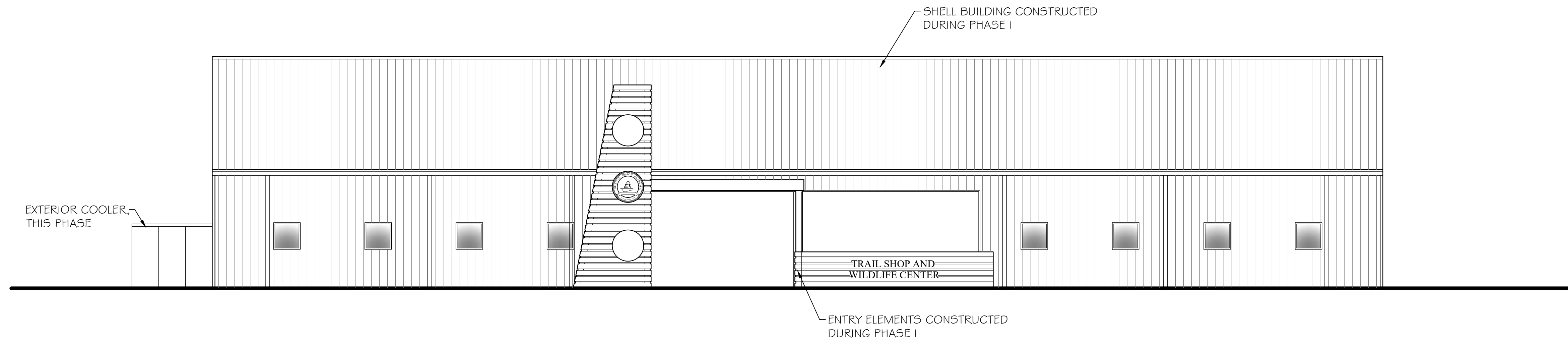
SCALE: 1/4"=1'-0"



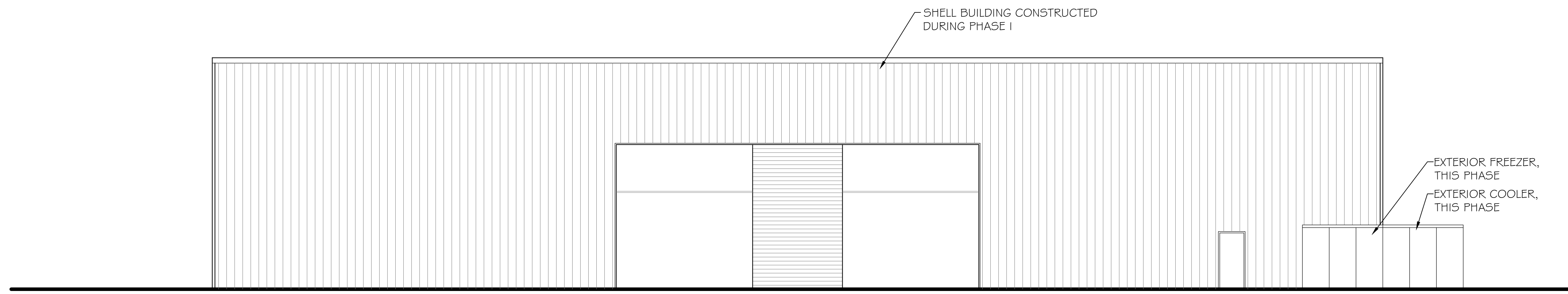
**WINDOW / TYPES**

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

PHASE II

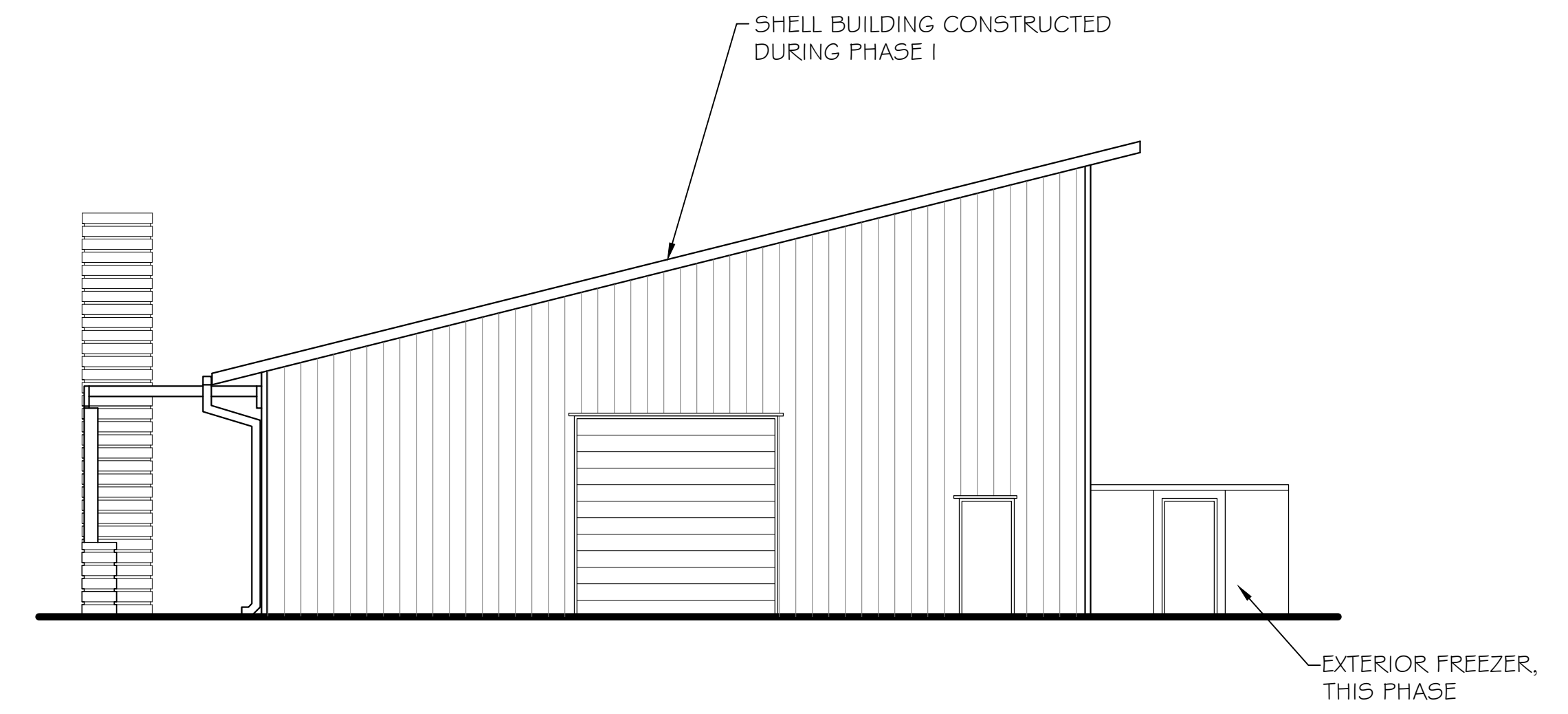


**FRONT ELEVATION**  
SCALE: 1/8"=1'-0"

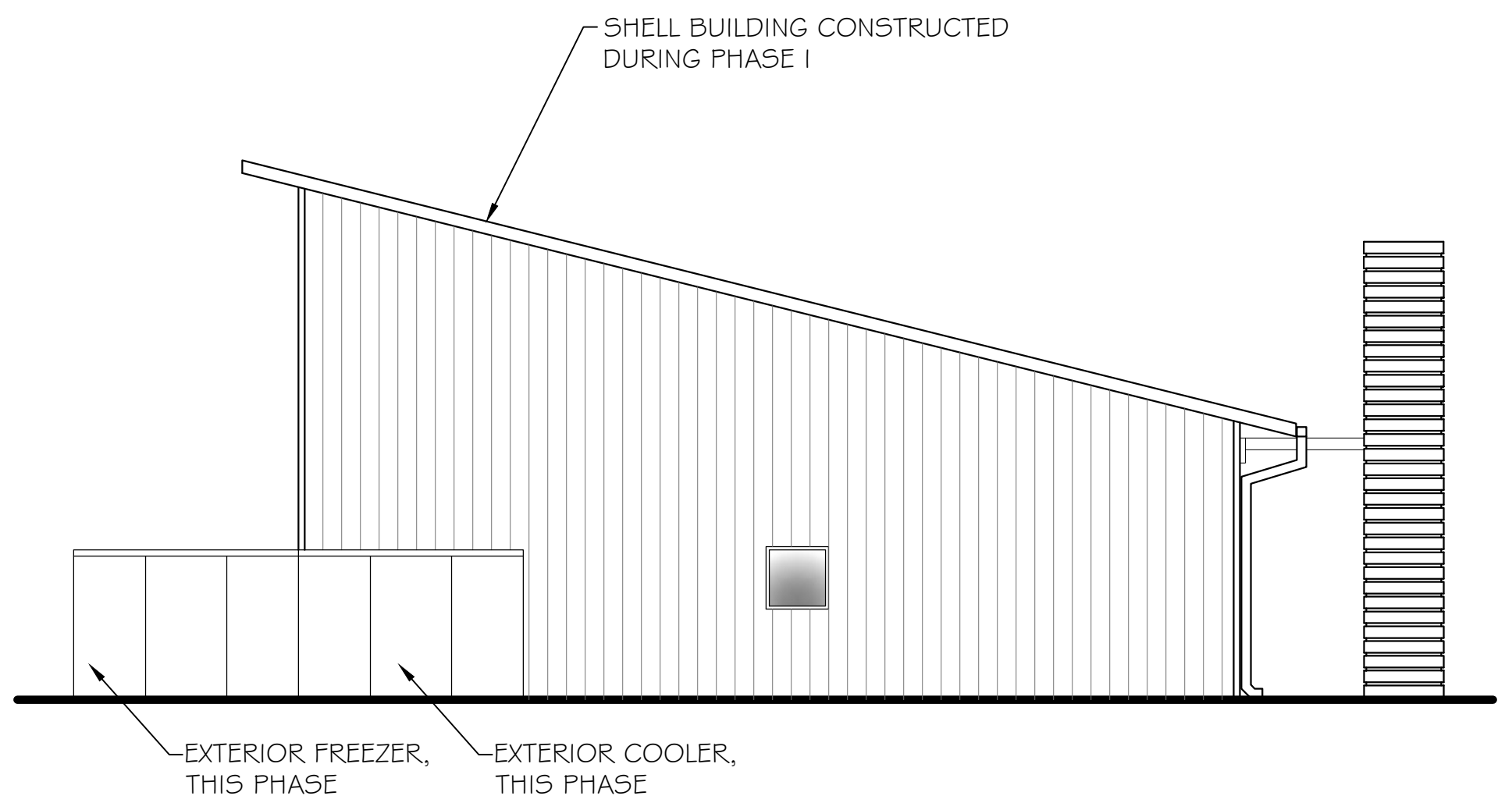


**REAR ELEVATION**  
SCALE: 1/8"=1'-0"

**GENERAL NOTE**  
ALL EXTERIOR ITEMS HAVE BEEN COMPLETED DURING A PREVIOUS PHASE, OTHER THAN THE COOLER, FREEZER AND ASSOCIATED CONCRETE PADS WHICH ARE TO BE CONSTRUCTED / INSTALLED DURING THIS PHASE II.



**LEFT SIDE ELEVATION**  
SCALE: 1/8"=1'-0"



**RIGHT SIDE ELEVATION**  
SCALE: 1/8"=1'-0"

ORANGE BEACH  
**WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**A3.1**

PHASE II  
EXTERIOR ELEVATIONS

**PHASE II**



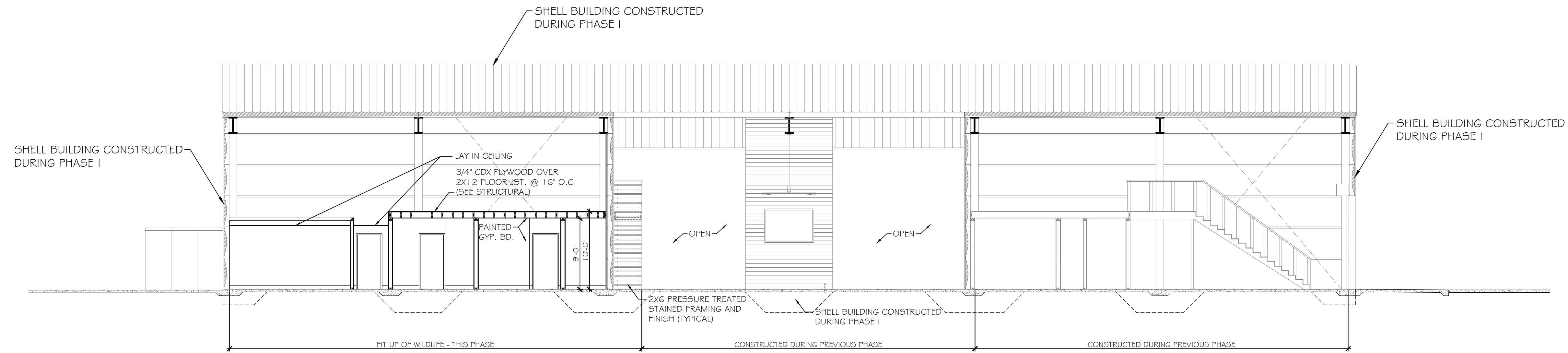


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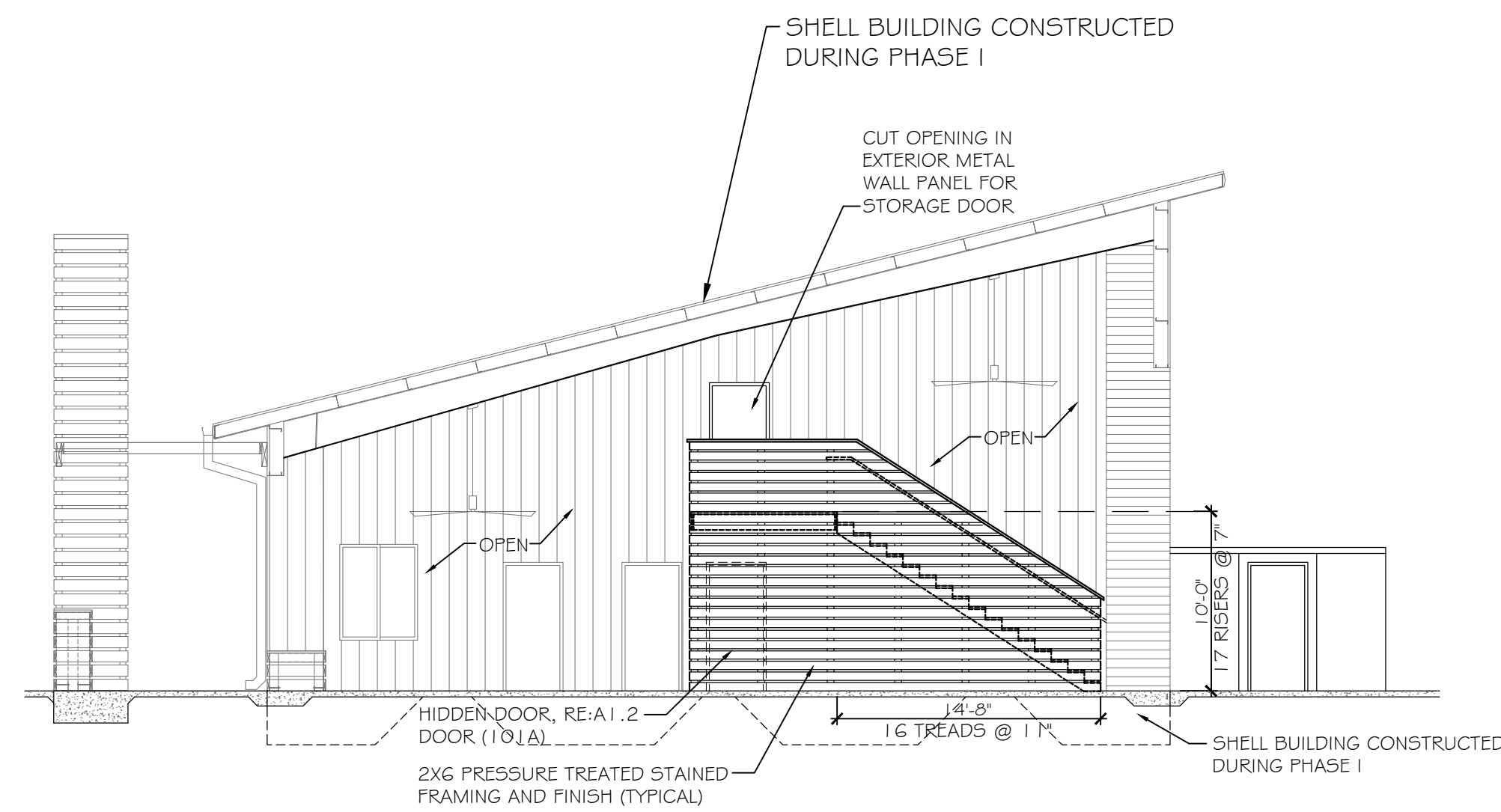


**GENERAL NOTE**

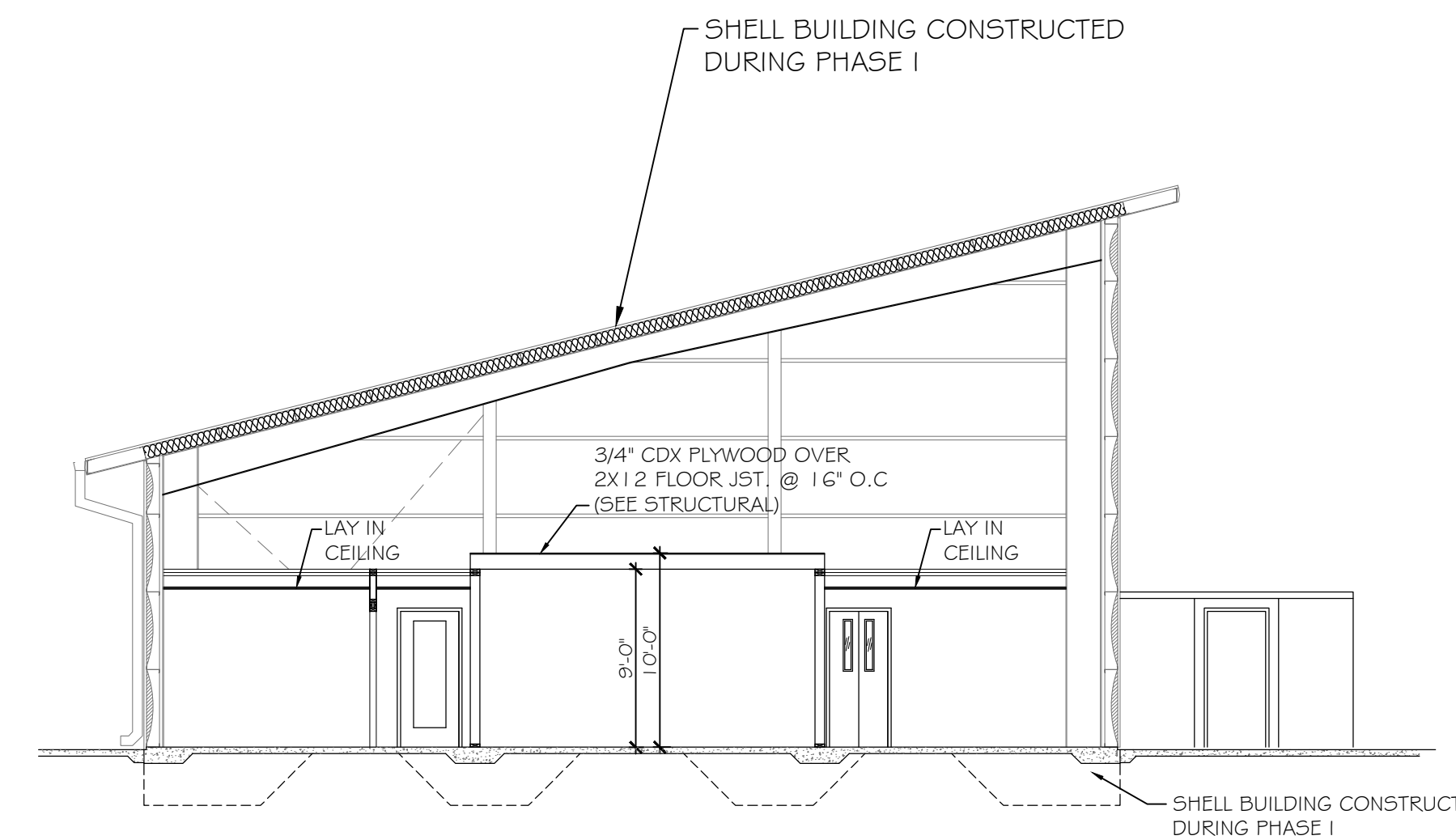
ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING PHASE I



**A**  
**BUILDING SECTION**  
SCALE: 1/8"=1'-0"



**B**  
**BUILDING SECTION**  
SCALE: 1/8"=1'-0"



**C**  
**BUILDING SECTION**  
SCALE: 1/8"=1'-0"

**ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA**

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

SHEET NO.:

**A4.1**

PHASE II  
BUILDING SECTIONS

**PHASE II**



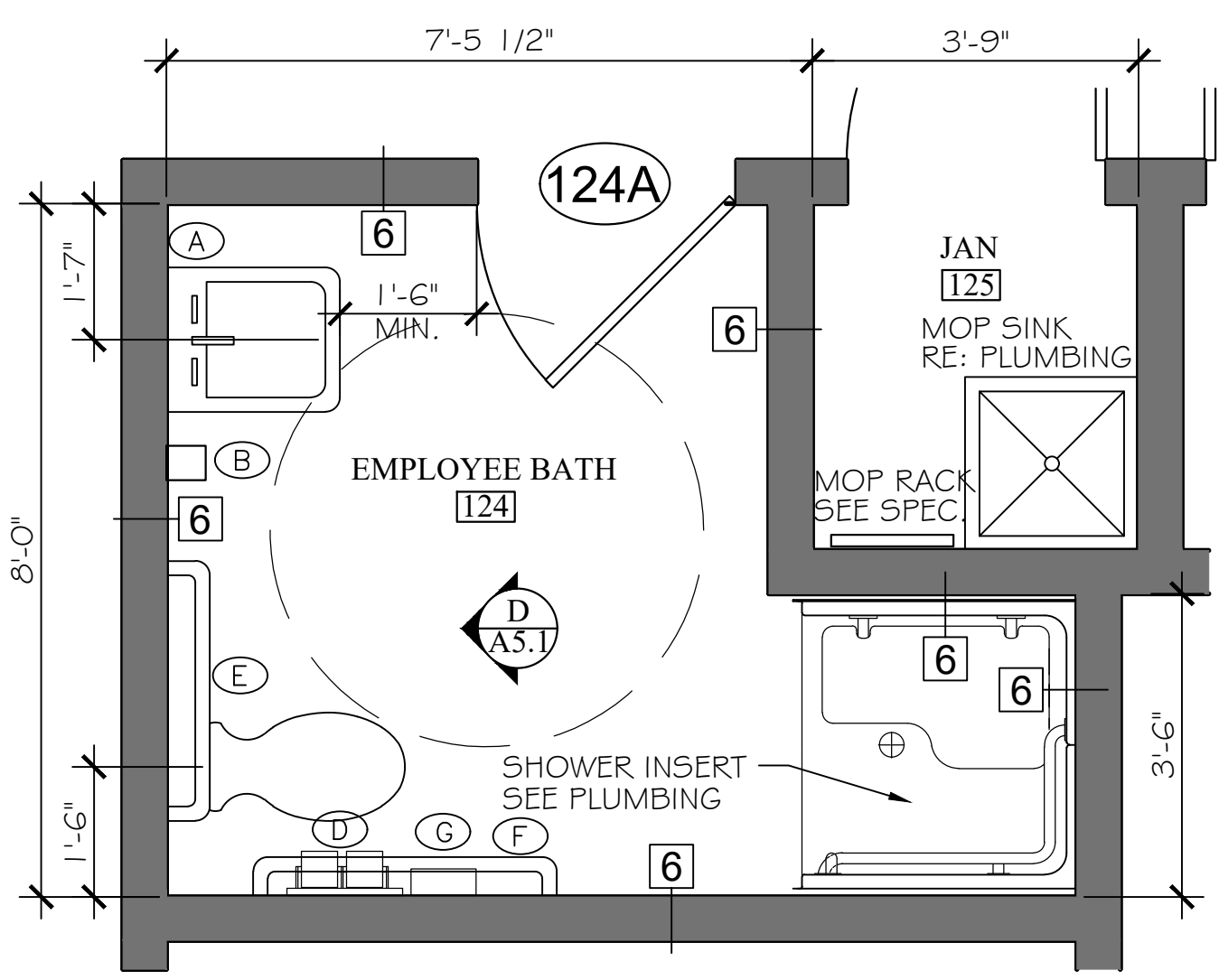




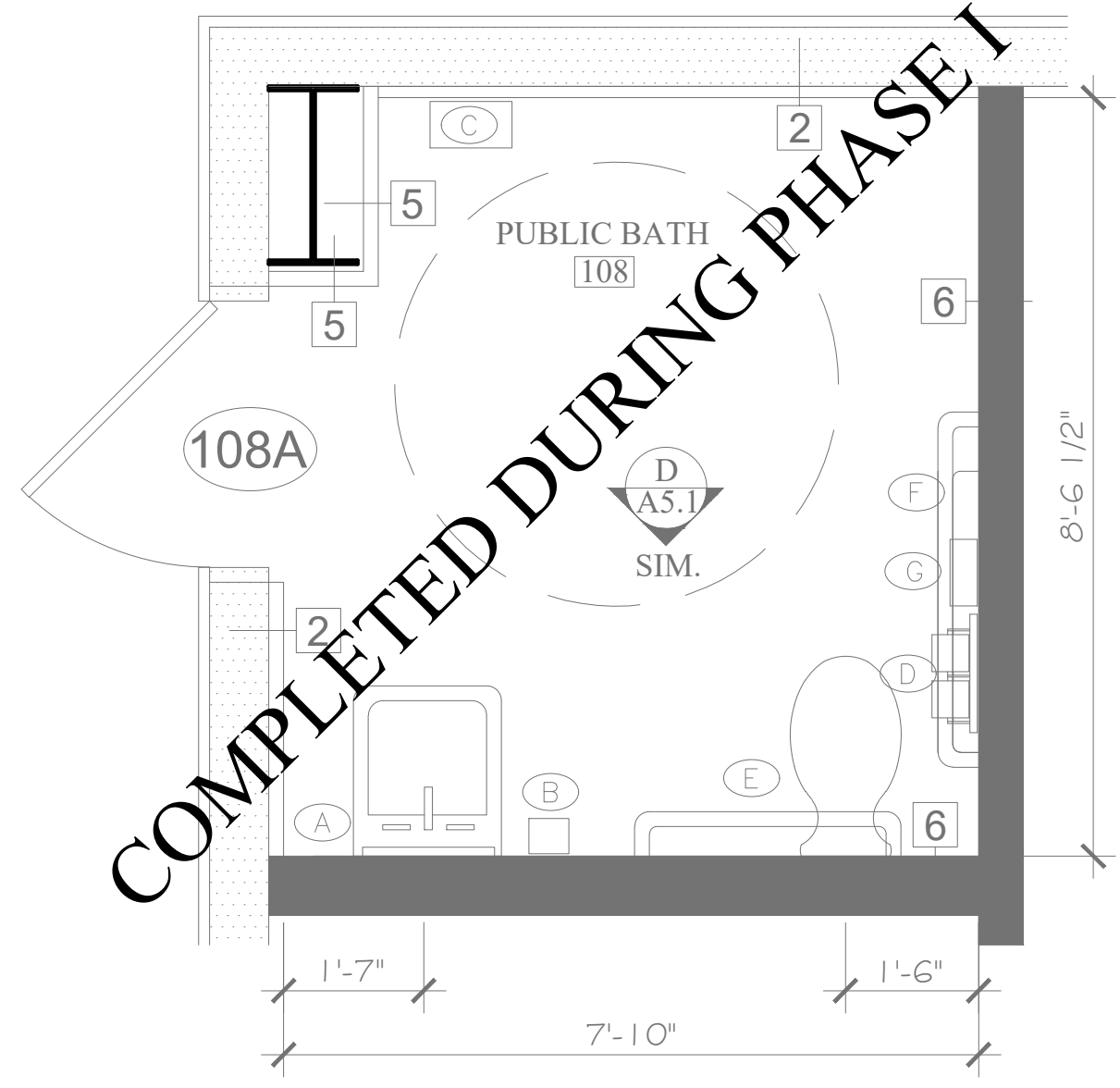
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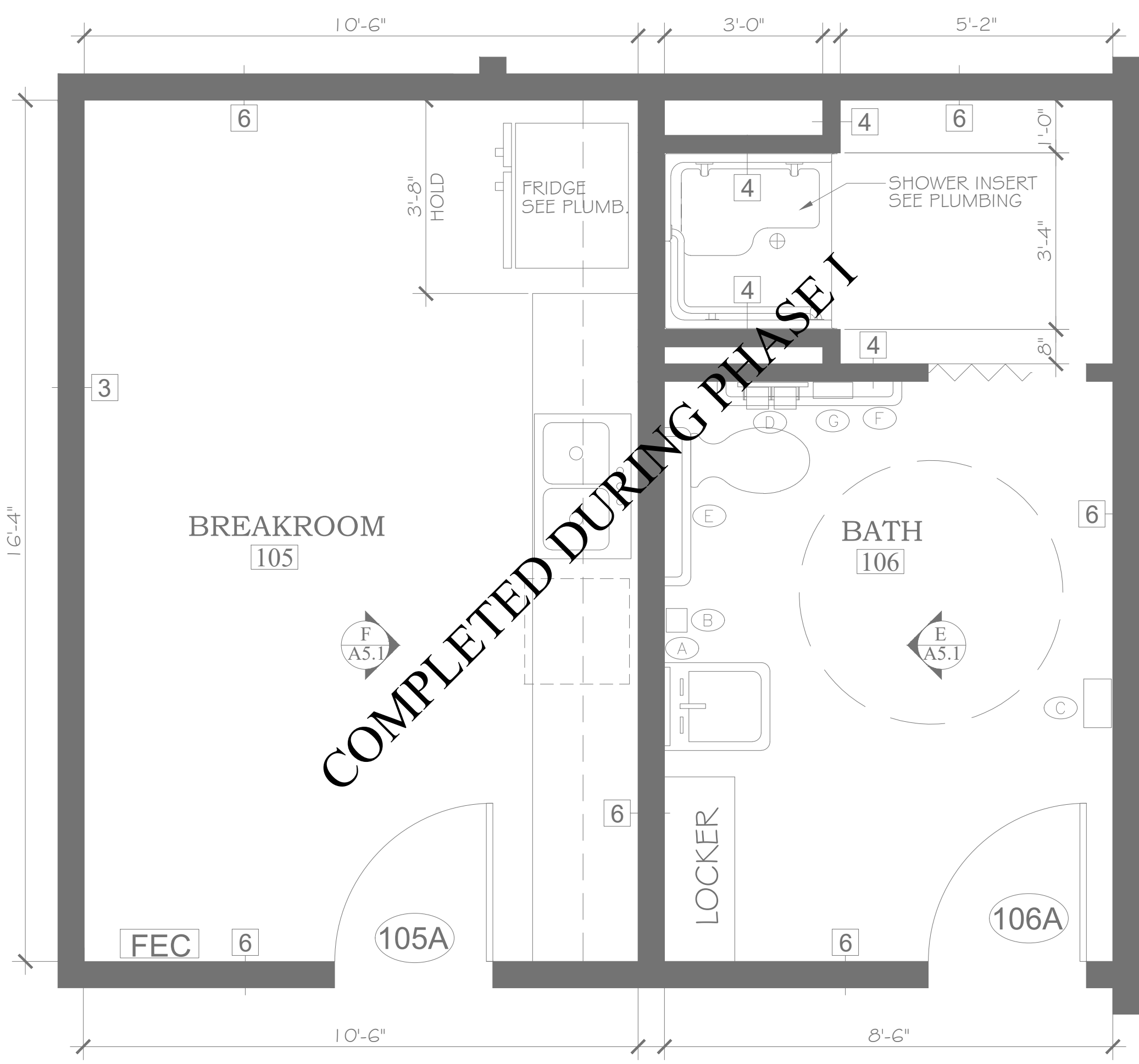
ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA



**A**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"



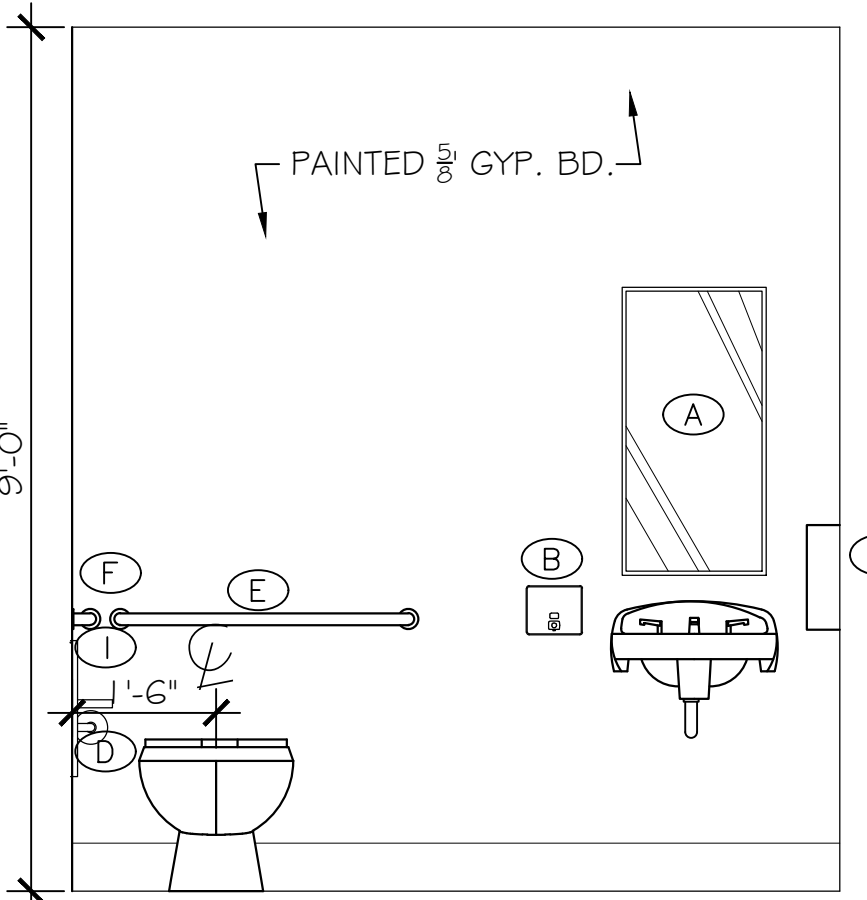
**B**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"



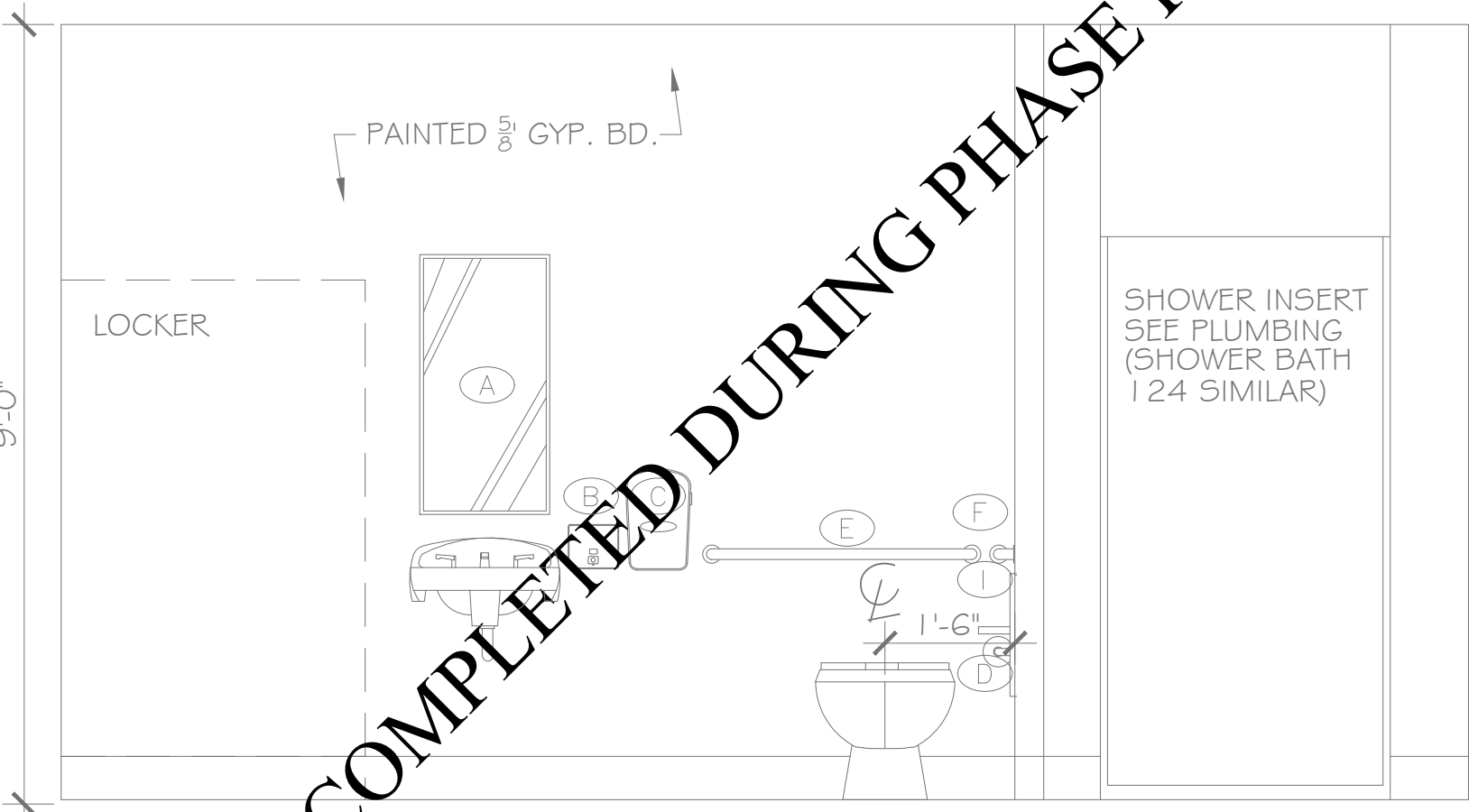
**C**  
A5.1 ENLARGED PLAN  
SCALE: 1/2"=1'-0"

ACCESSORIES SCHEDULE	
SYMBOL	DESCRIPTION
(A)	ACCESSIBLE MIRROR UNIT (MIR)
(B)	SOAP DISPENSER (SD)
(C)	PAPER TOWEL DISP./WASTE RECEPT. (PTD)
(D)	TOILET PAPER DISPENSER (TPD)
(E)	36" REAR GRAB BAR (GB)
(F)	42" SIDE GRAB BAR (GB)
(G)	SANITARY NAPKIN DISPOSAL (SND)
(H)	18" VERT. GRAB BAR

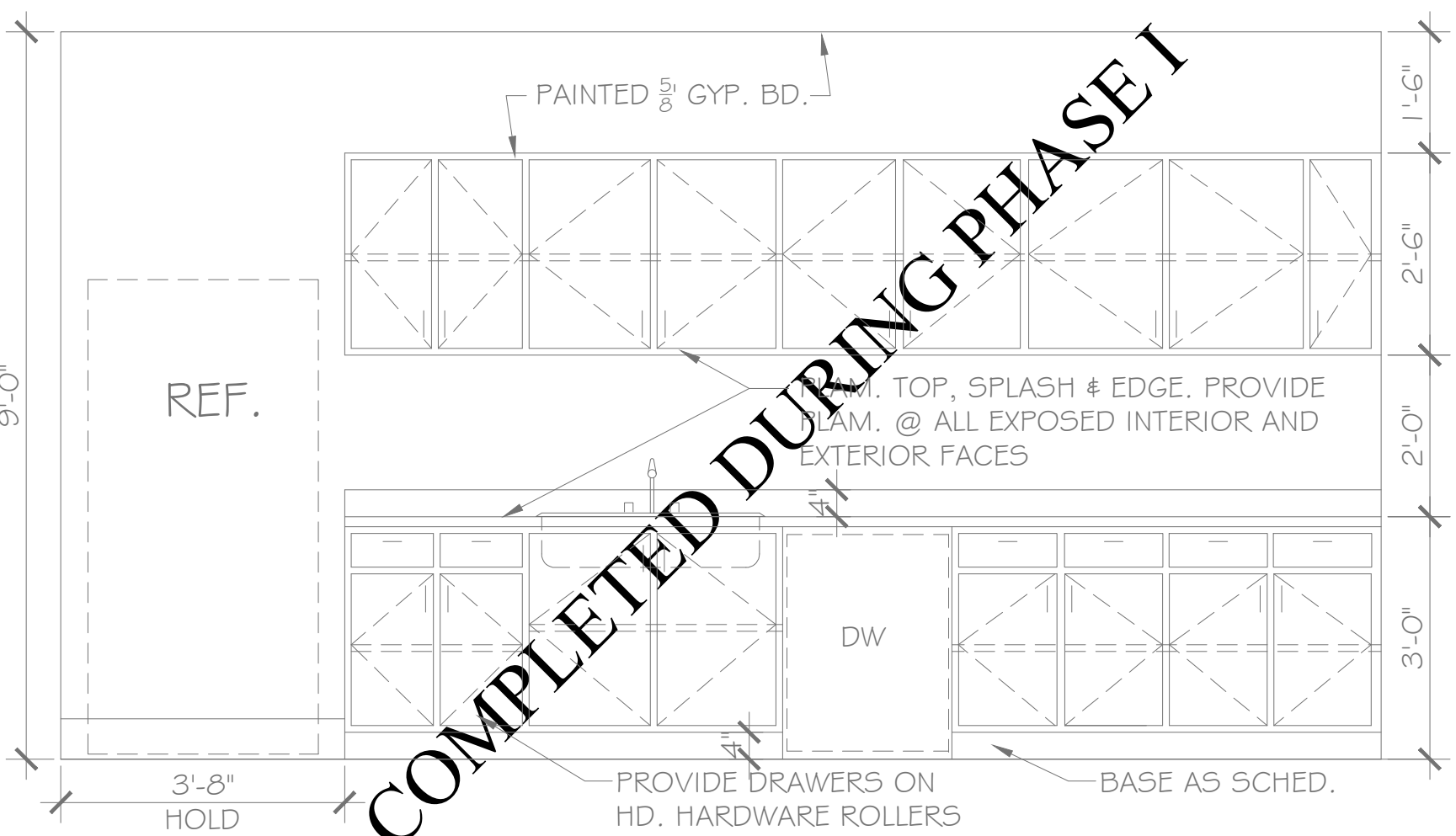
NOTE:  
PROVIDE BLOCKING IN WALLS AS REQUIRED FOR ALL ACCESSORIES.



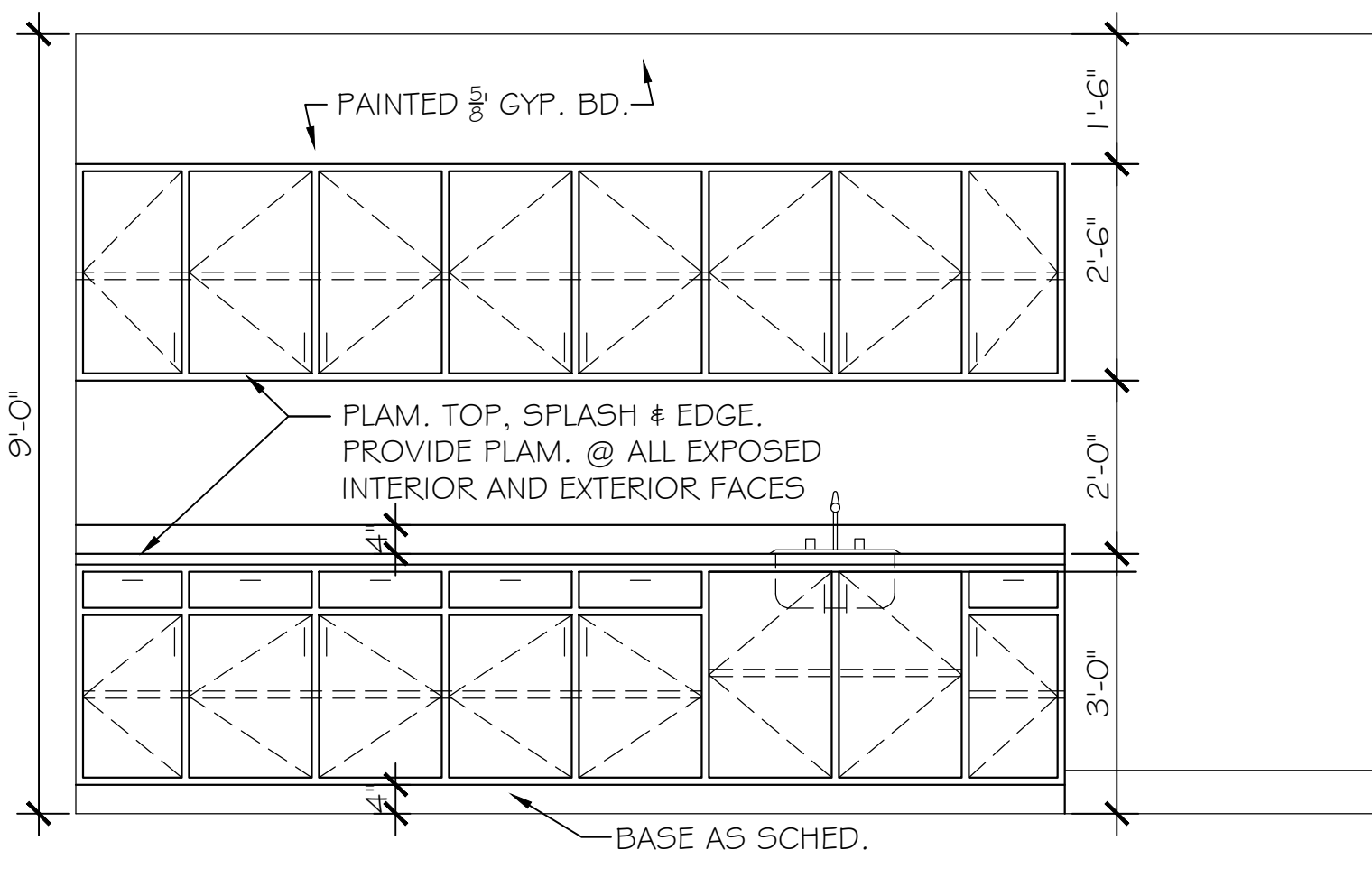
**D**  
A5.1 BATH 124 & 108  
SCALE: 1/2"=1'-0" NOTE: ROOM 108 BUILT DURING PHASE I



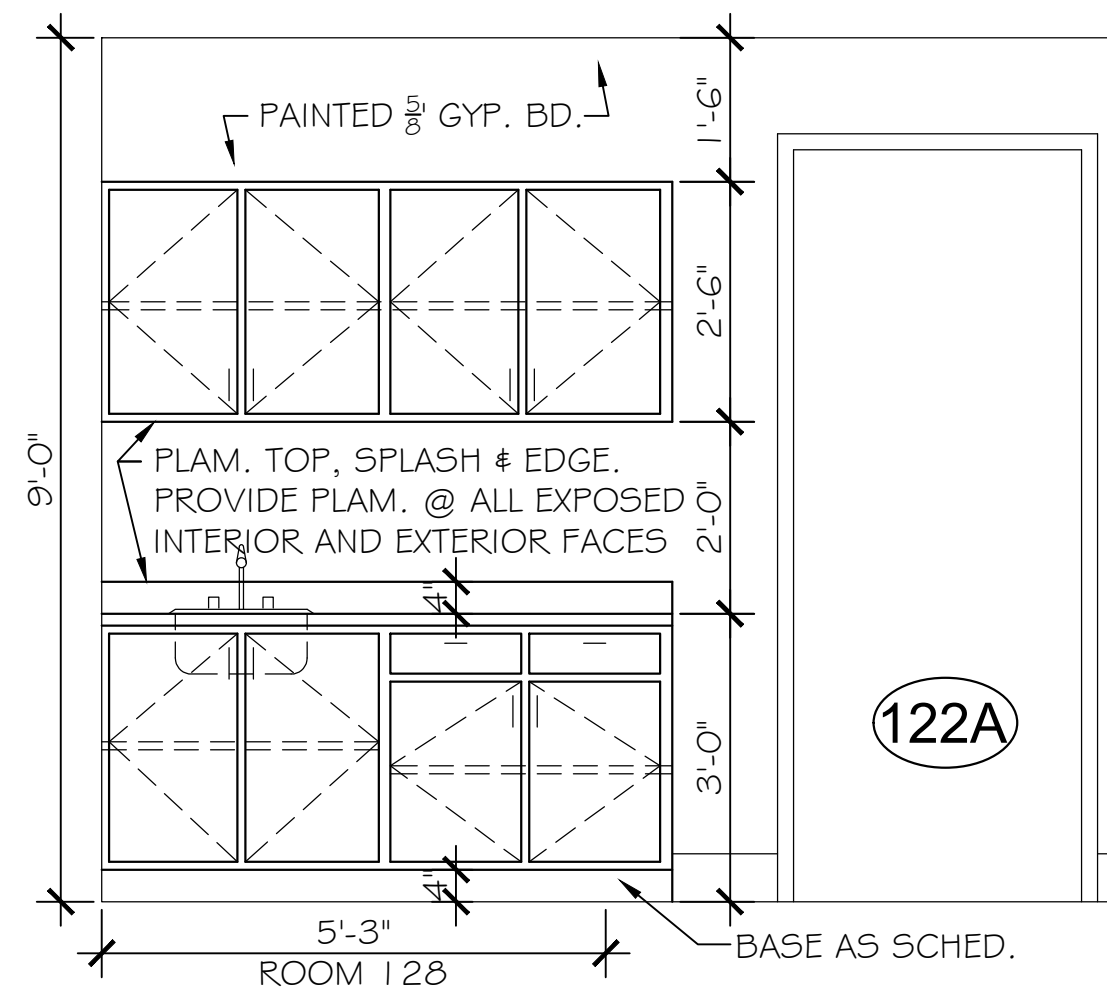
**E**  
A5.1 BATH 106  
SCALE: 1/2"=1'-0"



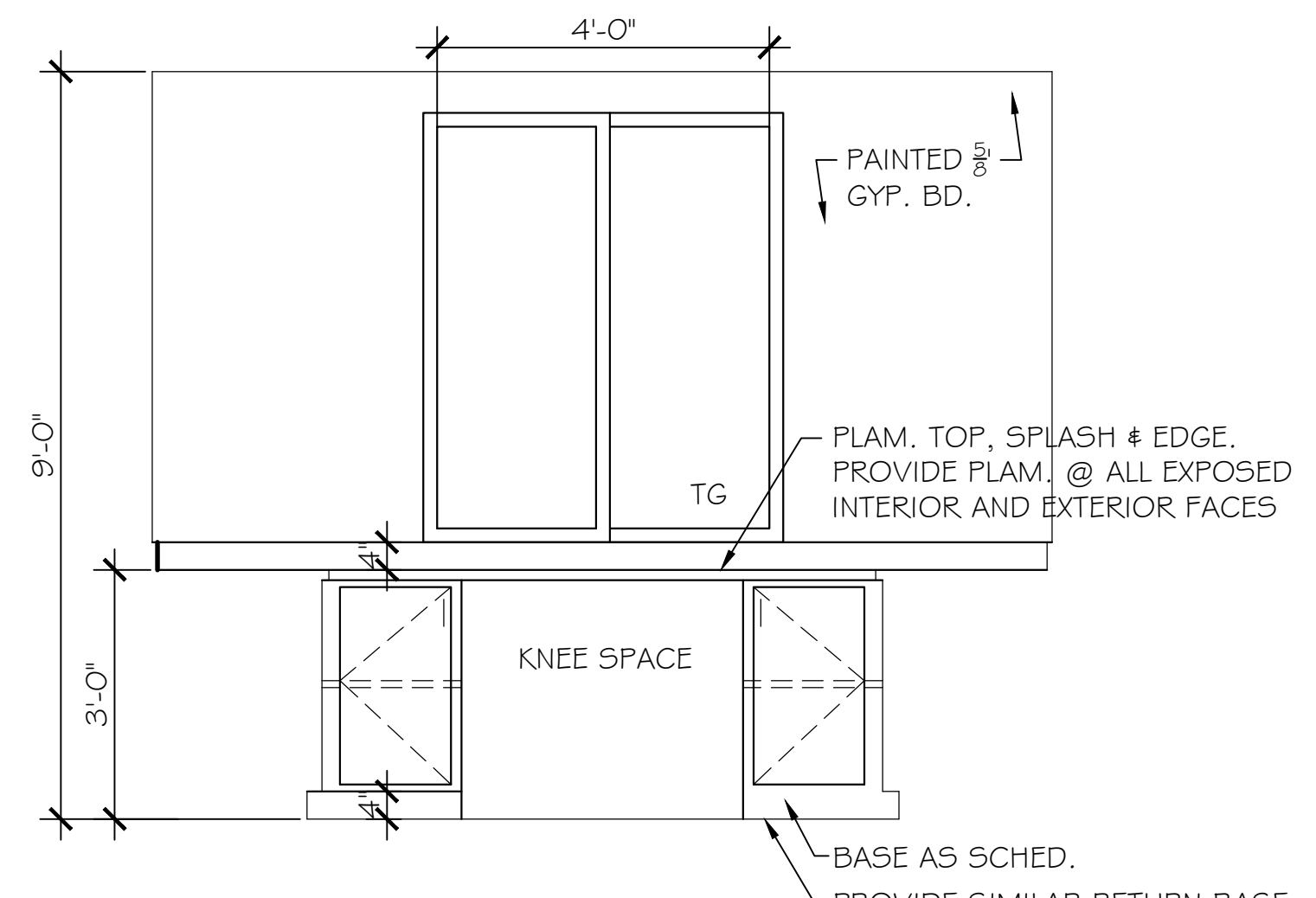
**F**  
A5.1 BREAKROOM 105  
SCALE: 1/2"=1'-0"



**G**  
A5.1 REHAB 2 115  
SCALE: 1/2"=1'-0" 116 SIM. OPP. HAND



**H**  
A5.1 TRIAGE 122  
SCALE: 1/2"=1'-0" 123 SIM. OPP. HAND 128 SIM.



**I**  
A5.1 OFFICE 111  
SCALE: 1/2"=1'-0"

PHASE II

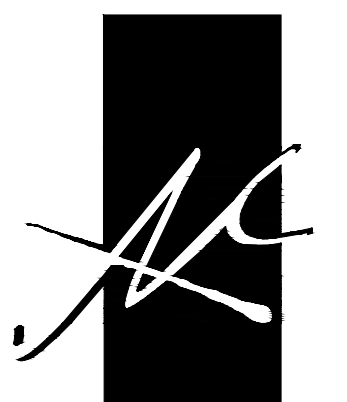
JOB NO.:	21-06
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.06.01
REVISION:	

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

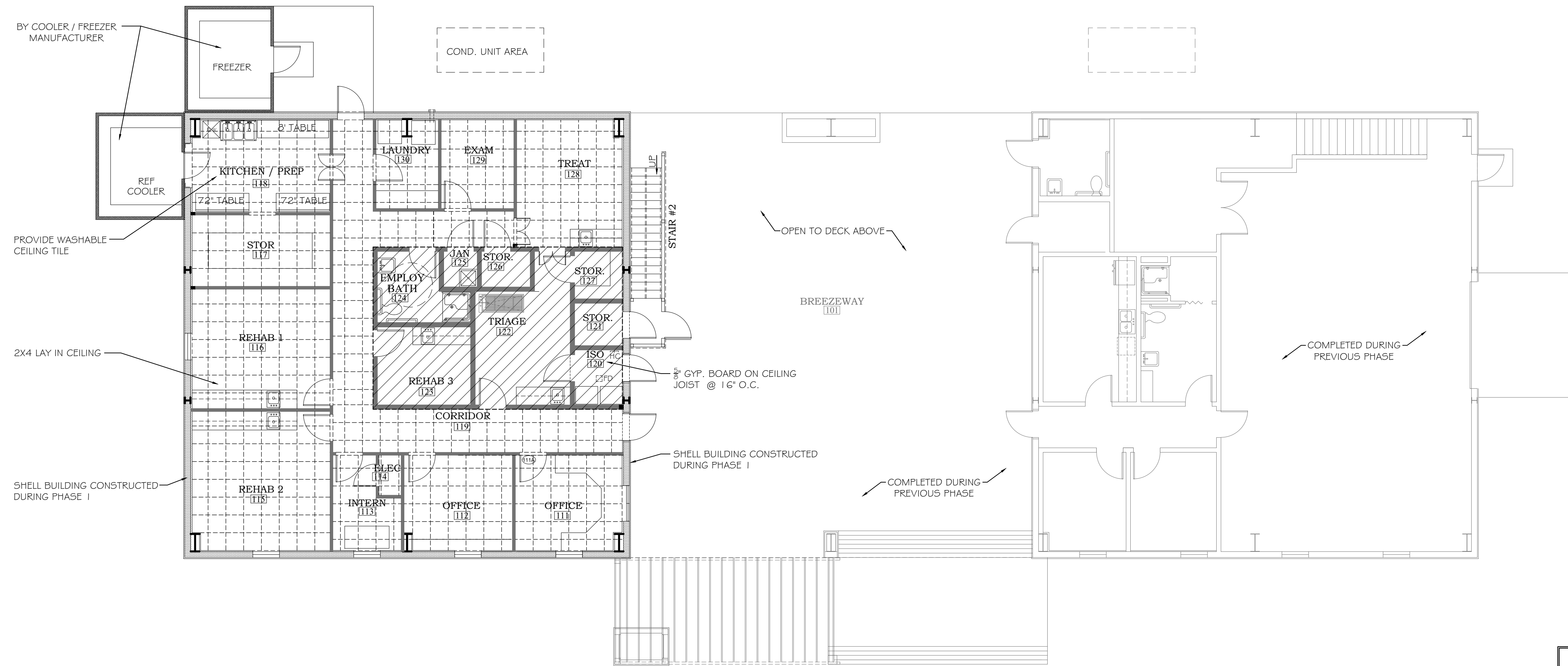
SHEET NO.:

**A5.1**

ENLARGED PLANS & INTERIOR ELEVATIONS



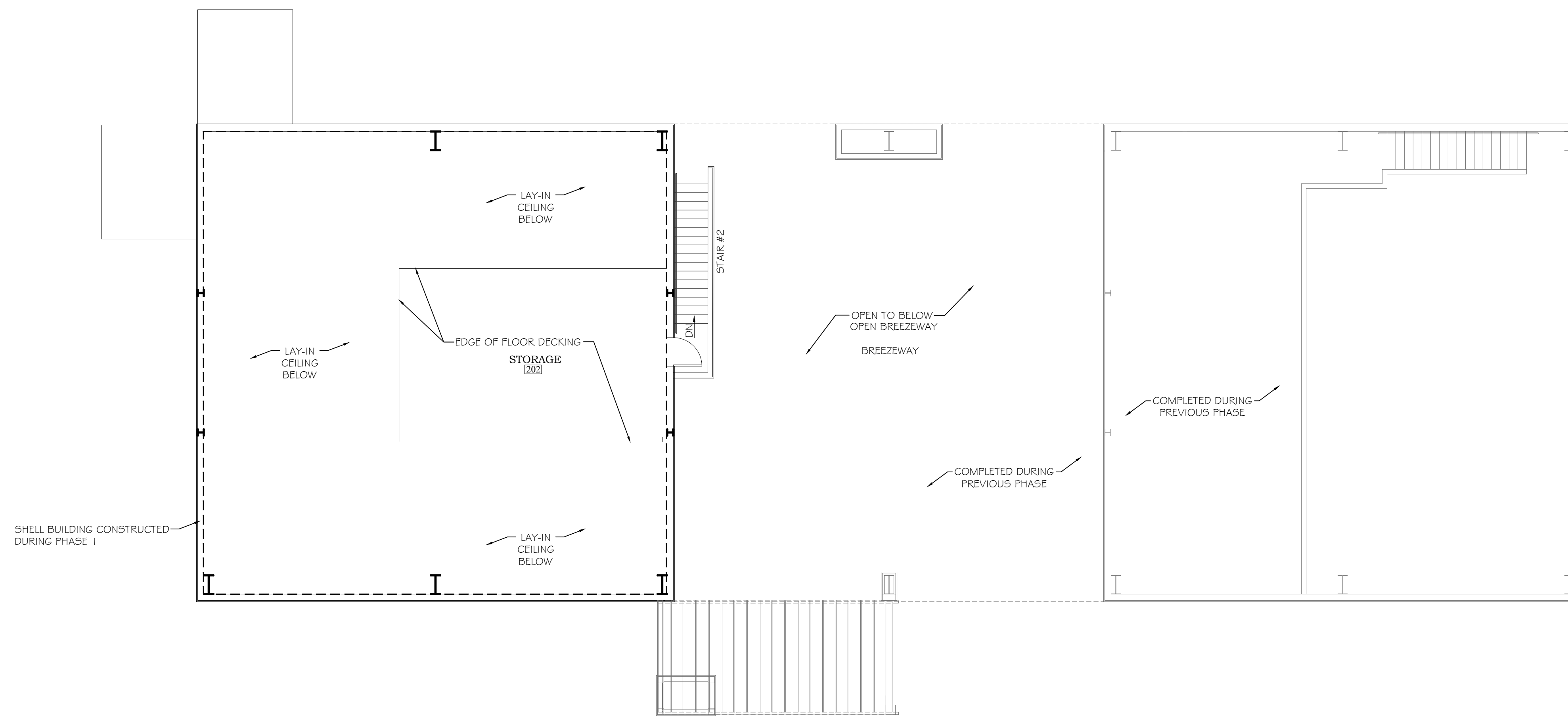
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ARCHITECTURE, INC.  
P.O. BOX 6310  
GULF SHORES, ALABAMA  
36547-6310  
PHONE: 251-968-7222



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

**GENERAL NOTES**

- ALL GREYED OUT ITEMS WERE CONSTRUCTED DURING PHASE I
- SEE ELECTRICAL AND LIFE SAFETY PLANS FOR LIGHT FIXTURES AND REQUIRED SAFETY DEVICES
- SEE MECHANICAL PLANS FOR HVAC SUPPLY, RETURN AND EXHAUST VENTS



**SECOND FLOOR REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"

ORANGE BEACH  
**WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

JOB NO.: 21-06  
DRAWN: CLT  
CHECKED: SBM  
DATE: 2021.06.01  
REVISION:

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

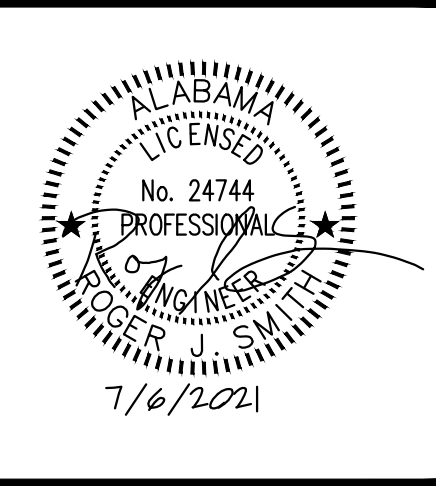
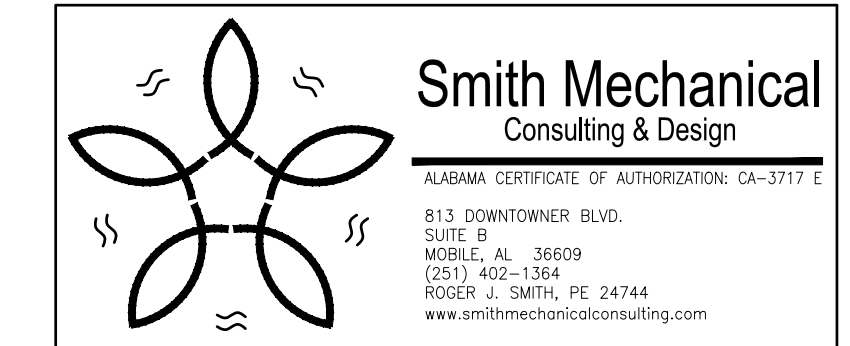
SHEET NO.:

**A6.1**

REFLECTED CEILING PLAN

PHASE II





PHASE 2 DRAWINGS FOR  
 ORANGE BEACH  
**WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: RJS  
 CHECKED: RJS  
 DATE: 2021.07.06  
 REVISION:  
 SCALE: AS SHOWN  
 SHEET NO.:  
**M1.0**  
 HVAC LEGEND, NOTES,  
 AND SCHEDULES

**HVAC SYMBOL LEGEND**

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

- ☒ SUPPLY AIR
- ☒ RETURN AIR
- ☒ EXHAUST AIR
- ☒ ELBOW W/ TURNING VANES
- ☒ SPLITTER
- ☒ BALANCING DAMPER
- ☒ FIRE DAMPER - VERTICAL
- ☒ FIRE DAMPER - HORIZONTAL
- ☒ MOTORIZED DAMPER
- ☒ THERMOSTAT
- ☒ WALL CAP
- ☒ EXHAUST FAN
- ☒ FLEX DUCT
- ☒ DUCT TURNING UP/DOWN
- ☒ UNDERCUT DOOR 1" MIN.
- ☒ SUPPLY AIR
- ☒ DOOR GRILLE, SIGHT-PROOF
- ☒ EXHAUST AIR
- ☒ SMOKE DAMPER
- ☒ BACK DRAFT DAMPER

**HVAC ABBREVIATIONS**

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- AUX AUXILIARY
- BDD BACK DRAFT DAMPER
- BRD BAROMETRIC RELIEF DAMPER
- CEIL CEILING
- COND CONDENSATE
- DIA DIAMETER
- EAT ENTERING AIR TEMPERATURE
- EF ROOM EXHAUST FAN
- EQUIP EQUIPMENT
- FD FIRE DAMPER
- FURN FURNACE
- GA GAUGE
- GRH GAS RADIANT HEATER
- GUH GAS UNIT HEATER
- HP HEAT PUMP
- HR HOUR
- MAX MAXIMUM
- MCA MINIMUM CIRCUIT AMPACITY
- MD MOTORIZED DAMPER
- MECH MECHANICAL
- MFR MANUFACTURER
- MIN MINIMUM
- MOCPP MAXIMUM OVERCURRENT PROTECTION
- NIC NOT IN CONTRACT
- OA OUTSIDE AIR
- PENE PENETRATION
- PTAC PACKAGED TERMINAL AIR CONDITIONER
- RA RETURN AIR
- RM ROOM
- REG REGISTER
- RND ROUND
- RTU ROOFTOP UNIT
- SYS SYSTEM
- TEMP TEMPERATURE
- TSTAT THERMOSTAT
- TYP TYPICAL
- VEL VELOCITY
- VF VENTILATION FAN
- W/ WITH

SPLIT SYSTEM HEAT PUMP SCHEDULE (WILDLIFE CENTER / PHASE TWO)																					
MARK NO.	AREA SERVED	TONS	TOTAL CFM	O.A. (CFM)	MIN EFFICIENCY		COOLING CAPACITY			HEATING CAPACITY		INDOOR UNIT					OUTDOOR UNIT				NOTES
					HSPF	SEER	TOTAL MBH	SENS. MBH	CAPACITY MBH	AUX. HEAT KW	VOLT PHASE	HP	E.S.P.	MCA	MOCPP	VOLT PHASE	MCA	MOCPP	WEIGHT (LBS)		
AHU-2	HP-2	WILDLIFE CENTER	3	1200	138	8.2	14	36	25.2	8	5	240/1	1/2	0.5	28	30	240/1	24	40	296	ALL
AHU-3	HP-3	WILDLIFE CENTER	3	1200	101	8.2	14	32.3	22.6	8	5	240/1	1/2	0.5	28	30	240/1	24	40	296	ALL

NOTES:  
 1. BASIS OF DESIGN CARRIER FX4D FAN COIL WITH 25HNB6 2-STAGE HEAT PUMP (COASTAL APPLICATIONS)  
 2. FURNISH WITH PROGRAMMABLE THERMOSTAT WITH REMOTE BULB SENSOR AT AHU RETURN.  
 3. FURNISH WITH LOW AMBIENT CONTROLS.  
 4. FURNISH WITH ANTI-SHORT CYCLE TIMER.  
 5. FURNISH WITH EVAPORATOR DEFROST CONTROL.  
 6. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.  
 7. FASTEN OUTDOOR UNITS TO HOUSEKEEPING PAD.

AIR TERMINAL DEVICE SCHEDULE						
MARK	DESCRIPTION	MFR	MODEL	MATERIAL	NECK	NOTES
CDA	DIFFUSER, LAY-IN, LOUVERED FACE	TITUS	TDC-AA	ALUM.	ROUND	1,2,3
CGA	CLG RETURN AIR GRILLE - GRID CLG	TITUS	50FF	ALUM.	ROUND	1,2,3
CGB	CLG RETURN AIR GRILLE - GYP CLG	TITUS	55FL	ALUM.	RECTANGULAR	1,2,3
CGC	CLG SUPPLY REGISTER	TITUS	112RL	ALUM.	RECTANGULAR	1,2,3
WGA	WALL SUPPLY GRILLE	TITUS	300FL	ALUM.	RECTANGULAR	1,2,3
WGB	WALL RETURN GRILLE	TITUS	55FL	ALUM.	RECTANGULAR	1,2,3
WLA	OUTDOOR AIR LOUVER	RUSKIN	ELF811DD	ALUM.	RECTANGULAR	1,2,4,5,6

NOTES:  
 1. BASIS OF DESIGN  
 2. FINISH SHALL BE VERIFIED W/ARCHITECT  
 3. PROVIDE W/ MFR'S PLASTER FRAME OF SAME MATERIAL.  
 4. FRAME DEPTH TO COORDINATE WITH EXTERIOR WALL.  
 5. FURNISHED WITH INSECT SCREEN.  
 6. STATIONARY EXTRUDED ALUMINUM DOUBLE-DRAINABLE 4" DEEP FRAME WITH BIRD SCREEN  
 7. COORDINATE INSTALLATION AND WATERPROOFING WITH GEN. CONTRACTOR.  
 8.

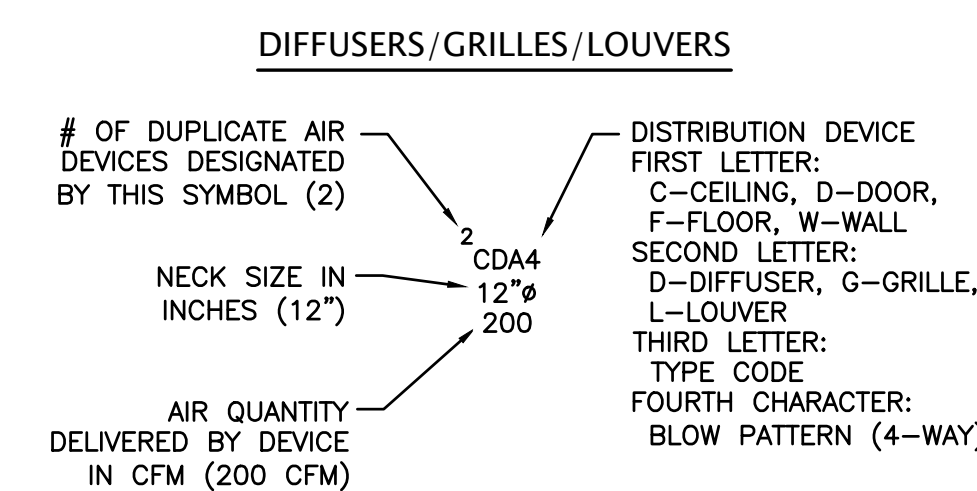
FAN PERFORMANCE DATA									
TAG	SERVICE	CFM	SONES	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
				POWER	E.S.P.	VOLTAGE	MFR	MODEL	
EF-2	EMPLOYEE BATH 124	90	0.6	17	0.25	120/1	GREENHECK	SP-A110	ALL
EF-3	JAN 125	45	0.6	14	0.25	120/1	GREENHECK	SP-A90	ALL

EQUIPMENT NOTES:  
 MFR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFR, MODEL AND PERFORMANCE DATA.

1. INTEGRAL DISCONNECT  
 2. VIBRATION ISOLATION KIT  
 3. INTEGRAL BACKDRAFT KIT  
 4. FAN SPEED CONTROL  
 5. INTERLOCK WITH LIGHTING  
 6. ALUMINUM CEILING GRILL

AHU-2 VENTILATION CALCULATIONS						
Zone Name / Space Name	Floor	Area (ft²)	Required Occupants	Required Outdoor Air (CFM/person)	Corrected Outdoor Air (CFM)	Required Exhaust Air (CFM)
111 OFFICE		130	1	5	0.06	16
112 OFFICE		130	1	5	0.06	16
113 ON CALL		82	1	5	0.06	12
115 REHAB 2		242	1	5	0.06	24
116 REHAB 1		208	1	5	0.06	22
120 ISO		33	0	5	0.06	3
121 STORAGE		26	0	0	0.12	4
122 TRIAGE		154	2	5	0.06	24
123 REHAB 3		92	1	5	0.06	13
127 STORAGE		26	0	0	0.12	4
Totals						138

AHU-3 VENTILATION CALCULATIONS						
Zone Name / Space Name	Floor	Area (ft²)	Required Occupants	Required Outdoor Air (CFM/person)	Corrected Outdoor Air (CFM)	Required Exhaust Air (CFM)
117 STORAGE		124	0	0	0.12	15
118 KITCHEN		161	2	7.5	0.12	34
124 EMPLOYEE BATH		68	0	0	0	90
125 JANITOR		15	0	0	0.12	2
126 STORAGE		21	0	0	0.12	3
128 TREAT/SURGERY		170	1	5	0.06	15
129 XRAY		82	1	5	0.06	10
130 LAUNDRY		70	0	0	0	-
119 CORRIDOR		367	0	0	0.06	22
Totals						101



**GENERAL HVAC NOTES**

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE.
- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR ARE TO BE MADE OF CONTINUOUS SHEET METAL.
- DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATION CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCT TYPE SHALL BE APPROVED BY APPLICABLE CODE AND MECHANICAL ENGINEER.
- ALL RETURN AIR, AND SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. LINED DUCTWORK DOES NOT REQUIRE EXTERIOR INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS. ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, INSTALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND DUCTWORK IN CONDITIONED SPACE DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED.
- ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
- FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 10'-0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM TO INCLUDE: PANELS, MODULES, RELAYS, WIRING, THERMOSTATS, SENSORS, DAMPERS, ACTUATORS AND ALL MISCELLANEOUS ITEMS AS REQUIRED TO FULFILL THE DESIGN INTENT AS INDICATED ON THE PLANS AND IN THE CODED NOTES.
- ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
- ALL LOW VOLTAGE WIRING AND CONDUIT REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
- CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- TEST & BALANCE ALL SUPPLY & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS.
- ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR UNITS.

**SEQUENCE OF OPERATION**

**OCCUPIED MODE**

AHU SHALL RUN CONTINUOUSLY WITH HEAT PUMP UNIT CYCLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE IN COOL OR HEAT MODE. SETPOINT FOR COOLING SHALL BE 75°F ADJUSTABLE AND HEATING SHALL BE 70°F ADJUSTABLE.

A CALL FOR COOLING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE AIR HANDLER

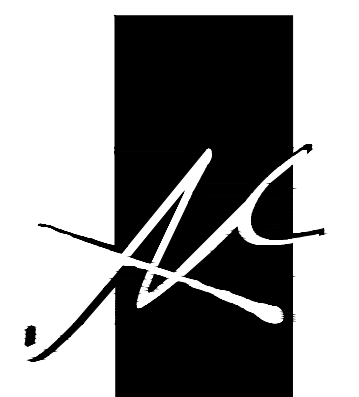
**HEATING**

A CALL FOR HEATING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE AIR HANDLER AND REFRIGERATION CIRCUITS IN STAGES IN REVERSE MODE AS DICTATED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS. THE AIR HANDLER AND ALL REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

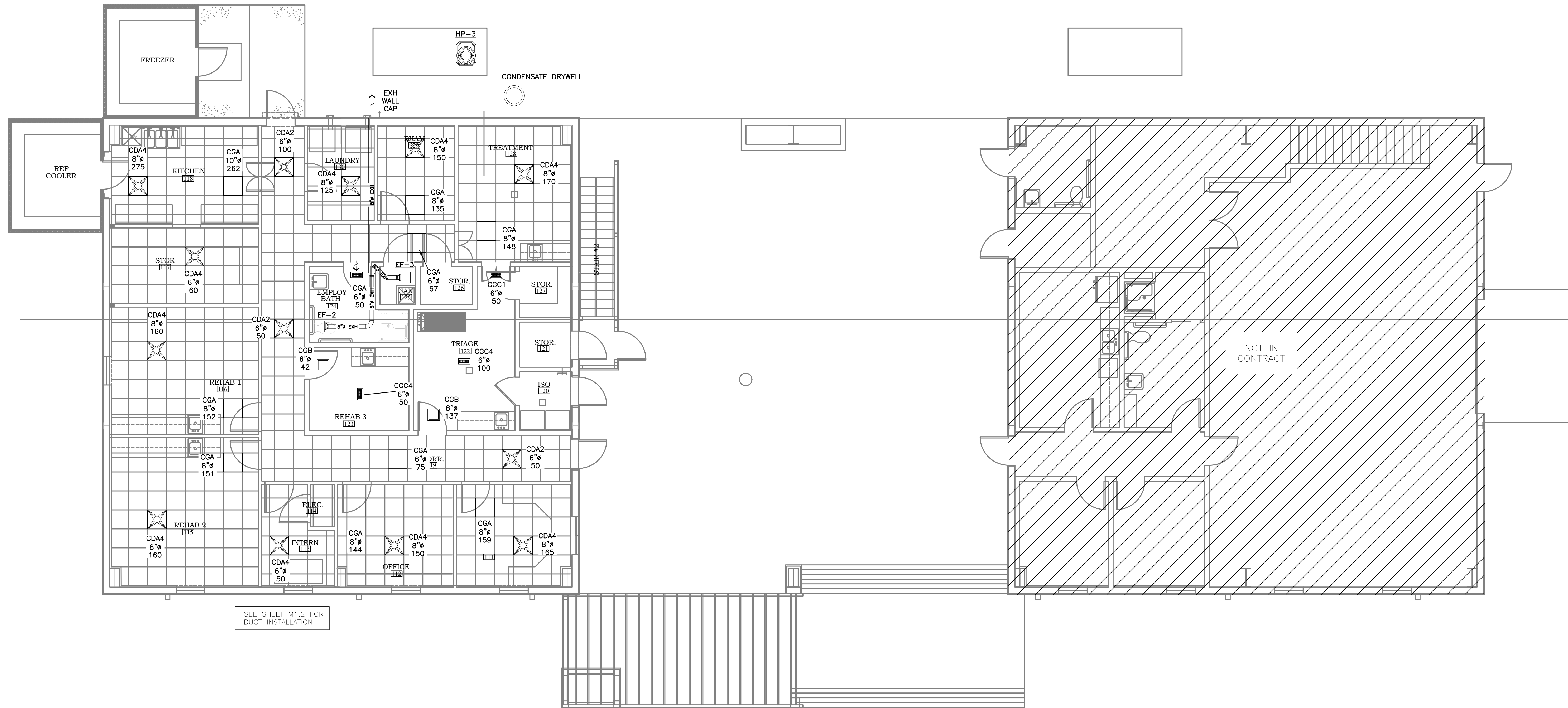
IF THE SPACE HEATING REQUIREMENTS CAN NOT BE MET USING THE REVERSE CYCLE ALONE, THE ELECTRIC HEATER WILL BE ENERGIZED IN STAGES AND CONTROLLED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS TO PROVIDE SUPPLEMENTAL HEAT. THE ELECTRIC HEATER AND THE REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

**UNOCCUPIED MODE**

AHU AND HEAT PUMP SHALL CYCLE AS REQUIRED TO MAINTAIN SETPOINT. TEMPERATURE SETPOINT FOR COOLING SHALL BE 80°F. SETPOINT FOR HEATING SHALL BE 65°F. BOTH COOLING AND HEATING SETPOINTS SHALL BE ADJUSTABLE.



McCULLOUGH ARCHITECTURE, INC.  
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PHONE: 251-968-7222



PHASE 2 DRAWINGS FOR  
ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.:  
DRAWN: RJS  
CHECKED: RJS  
DATE: 2021.07.06  
REVISION:

SCALE: AS SHOWN

SHEET NO.:

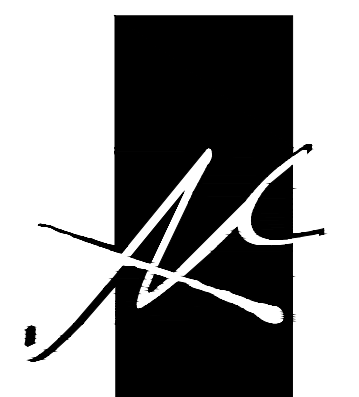
M1.1

HVAC PLAN  
FIRST FLOOR

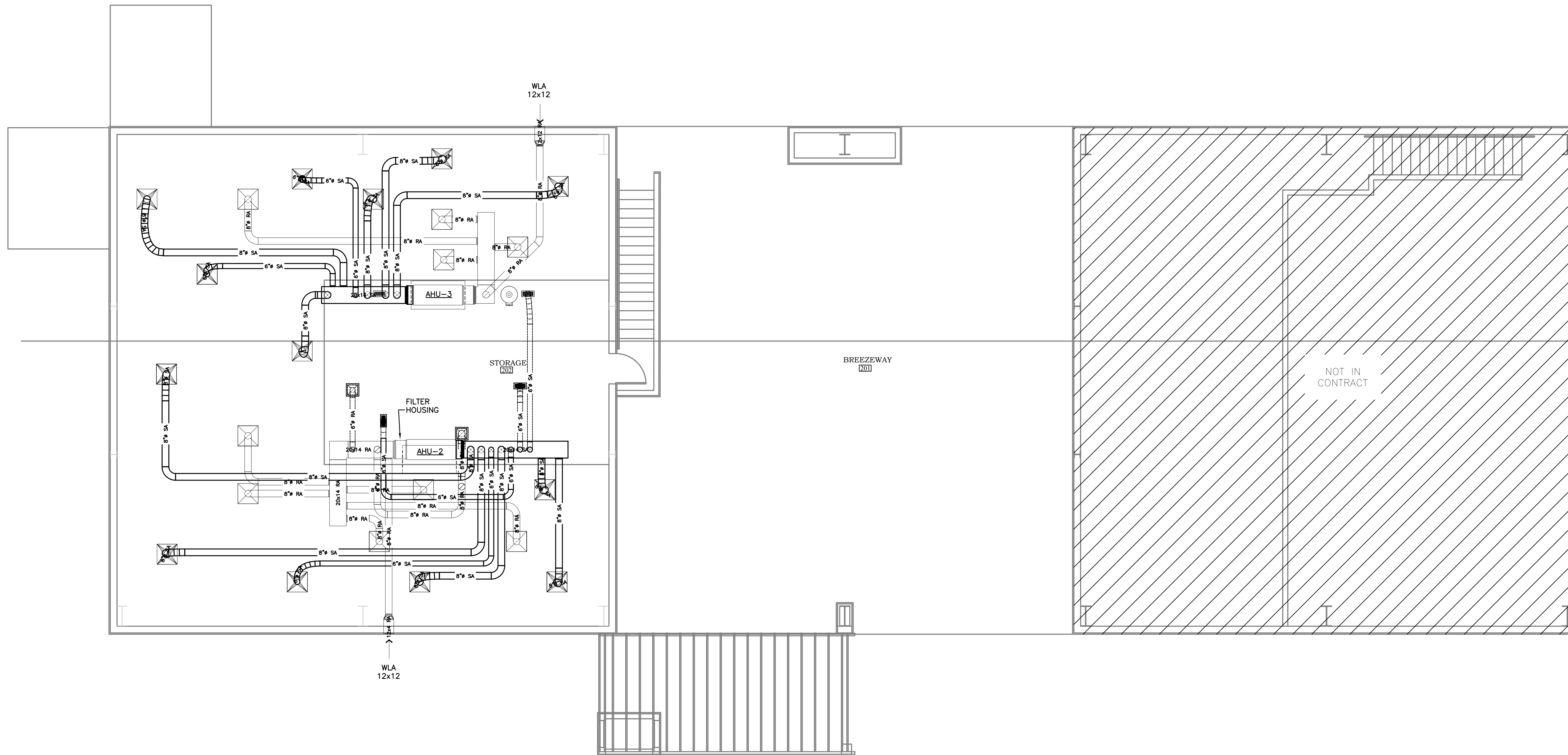
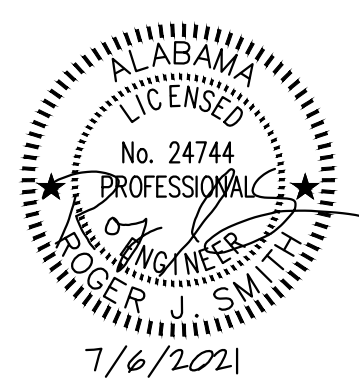
PHASE 2

N  
1  
M1.1  
HVAC PLAN- FIRST FLOOR  
SCALE: 3/16" = 1'-0"





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**1**  
 M1.2  
 HVAC PLAN- SECOND FLOOR  
 SCALE: 3/16" = 1'-0"

PHASE 2 DRAWINGS FOR  
 ORANGE BEACH  
**WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: RJS  
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 REVISION:

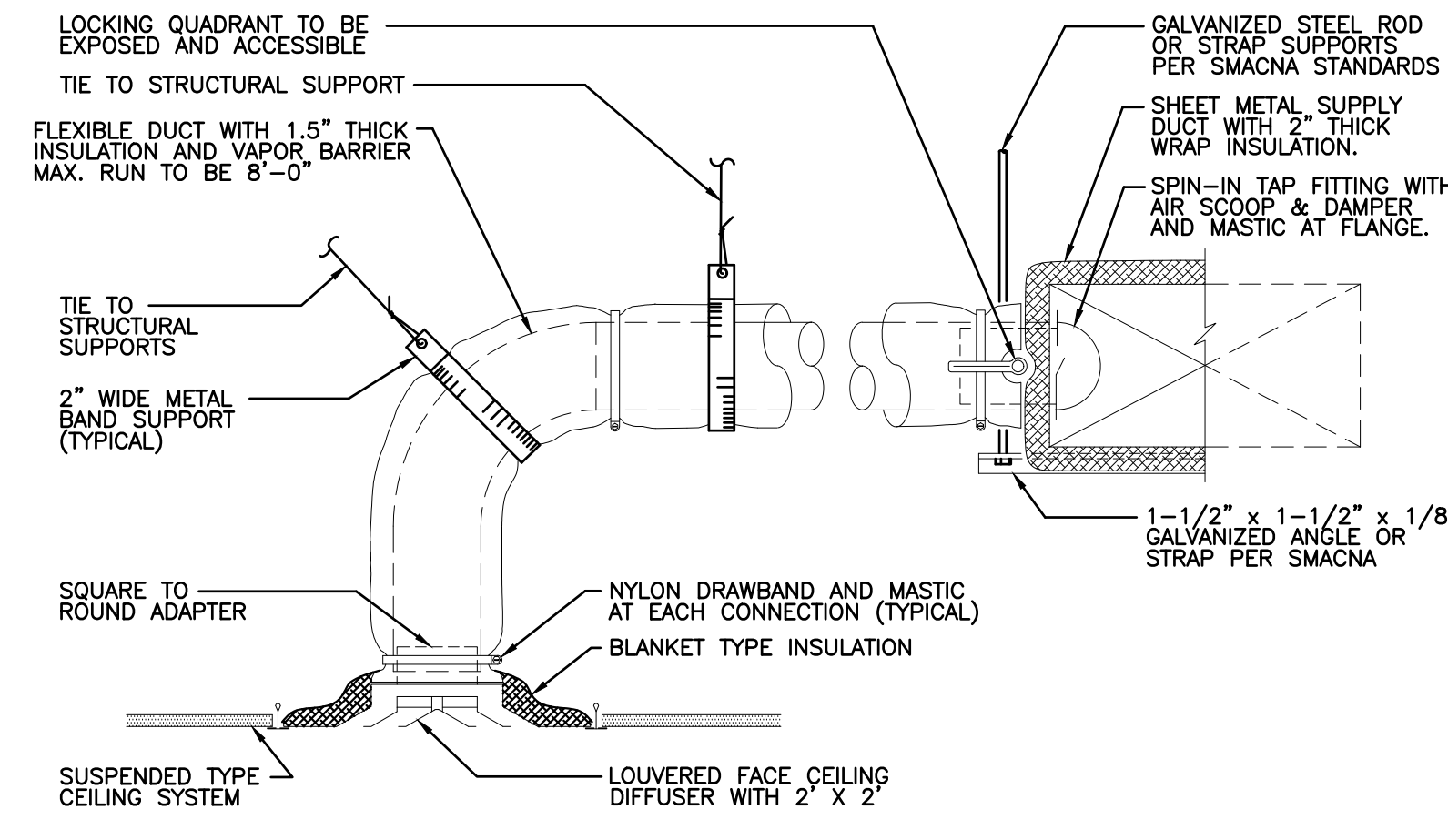
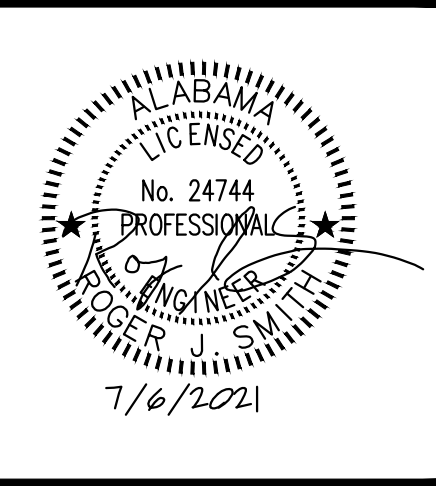
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SHEET NO.:

**M1.2**

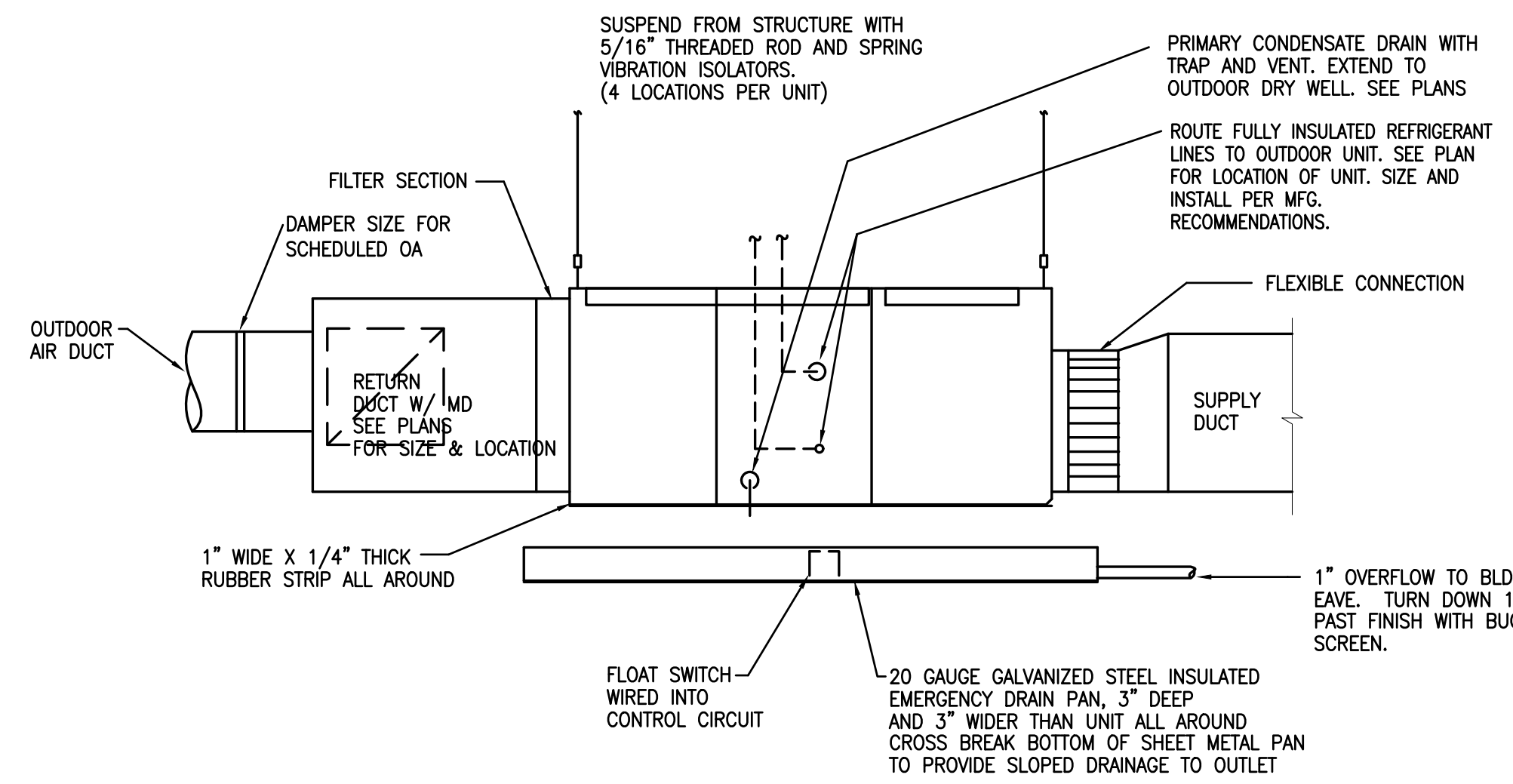
HVAC PLAN  
 SECOND FLOOR

PHASE 2

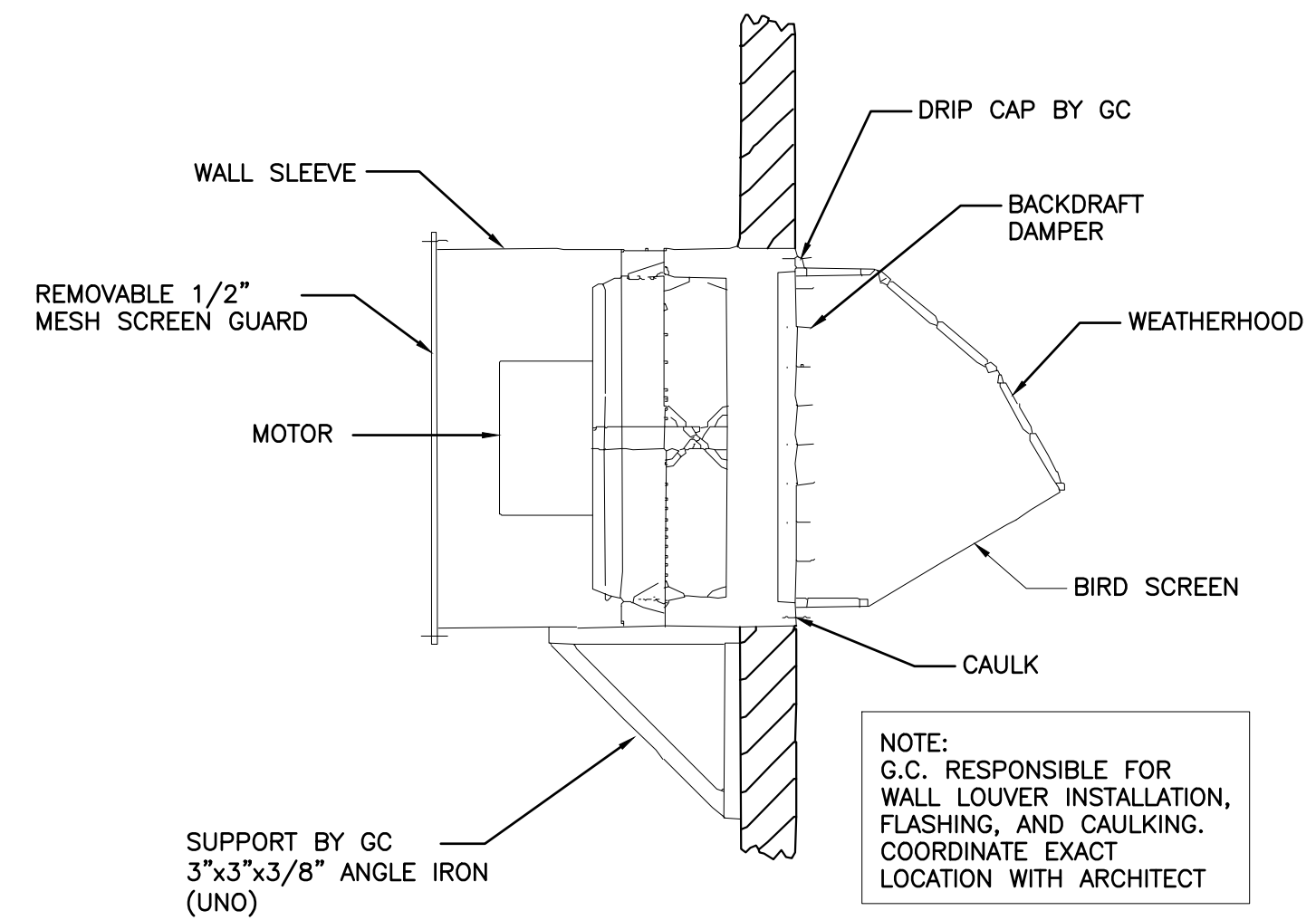


NOTE: FOR BRANCH DUCT CONNECTIONS IN EXCESS OF 8'-0" PROVIDE RIGID ROUND DUCT TO WITHIN 6'-0" OF DIFFUSER AND CONNECT WITH FLEXIBLE DUCT.

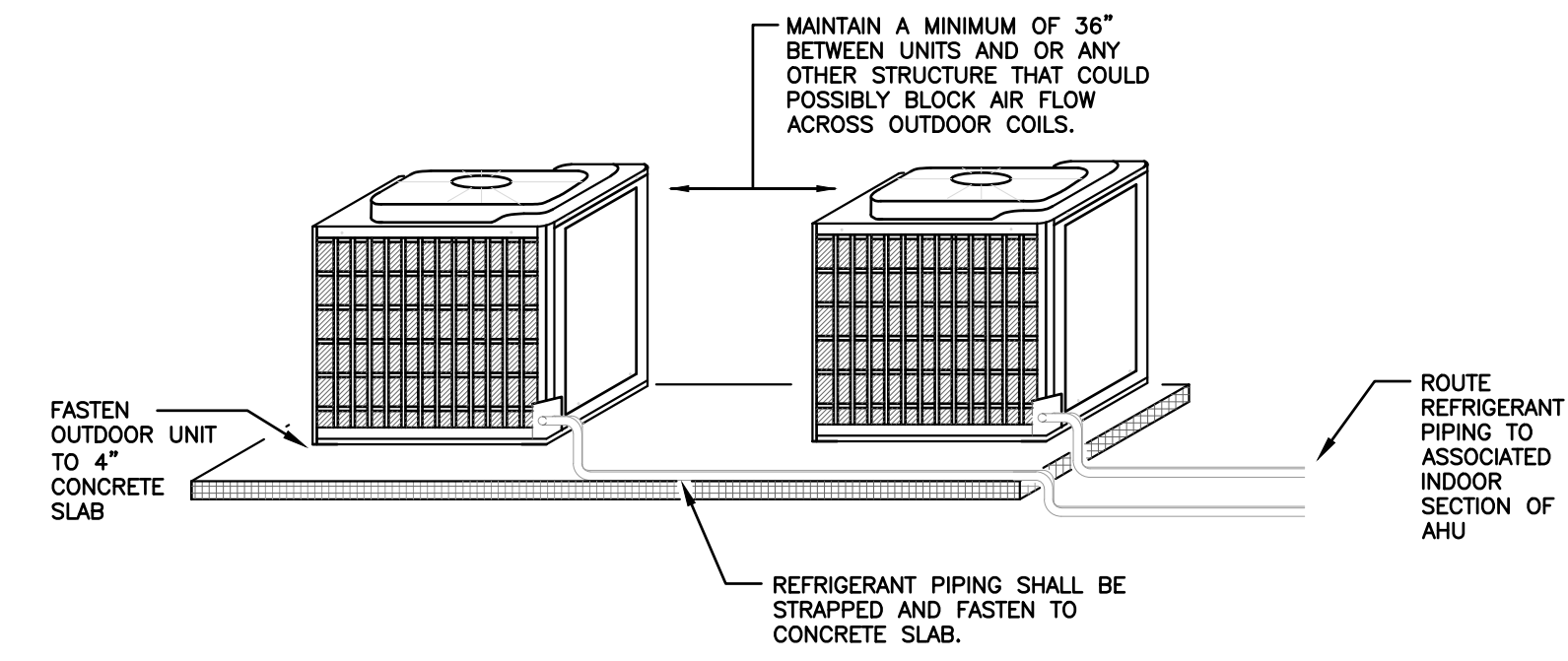
2 TYP. DIFFUSER & BRANCH CONNECTION  
M2.0 SCALE: NONE



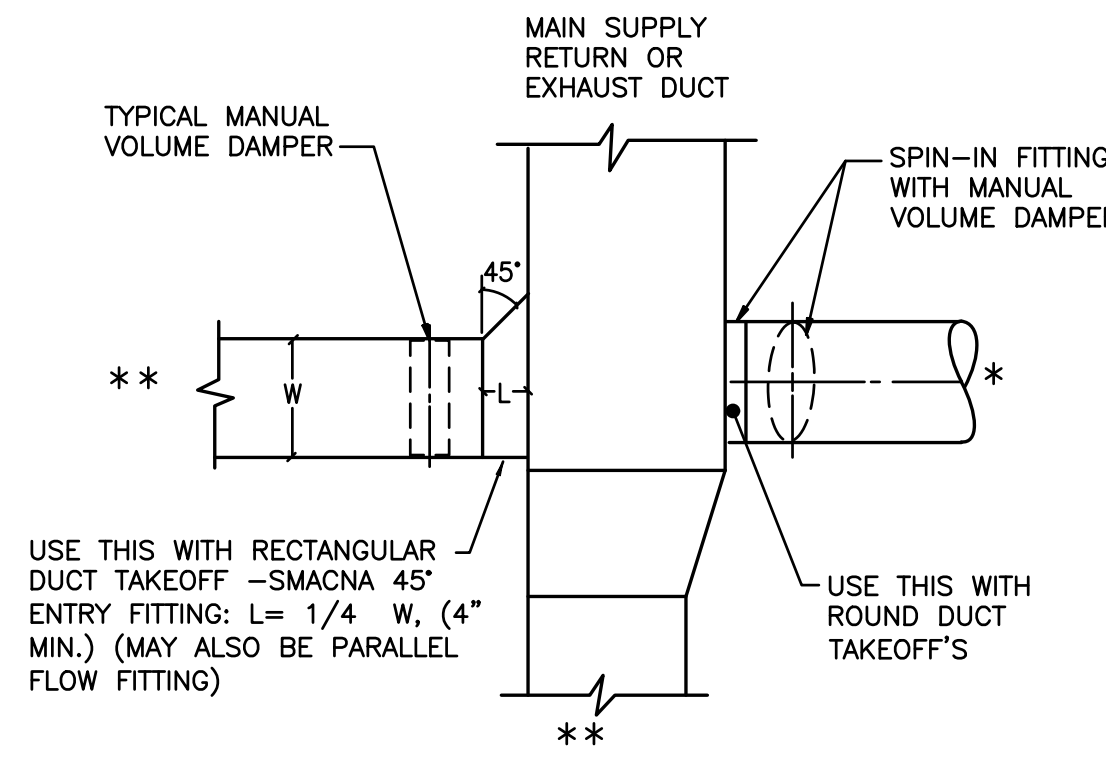
1 AHU INSTALLATION DETAIL  
M2.0



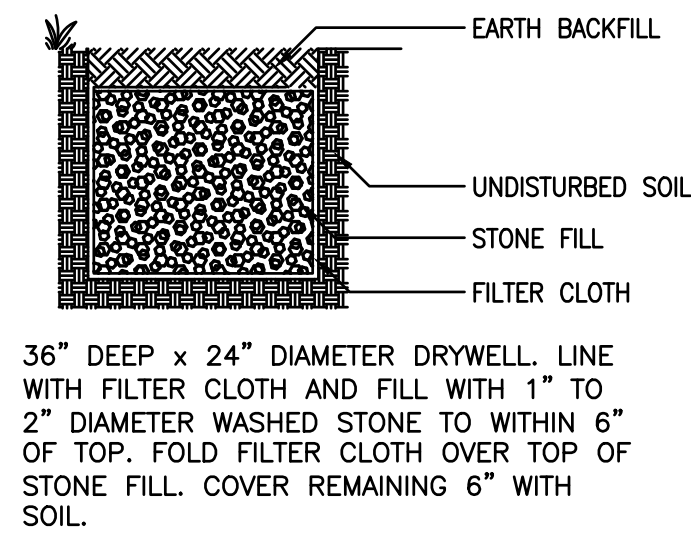
3 WALL FAN DETAIL  
M2.0 SCALE: NONE



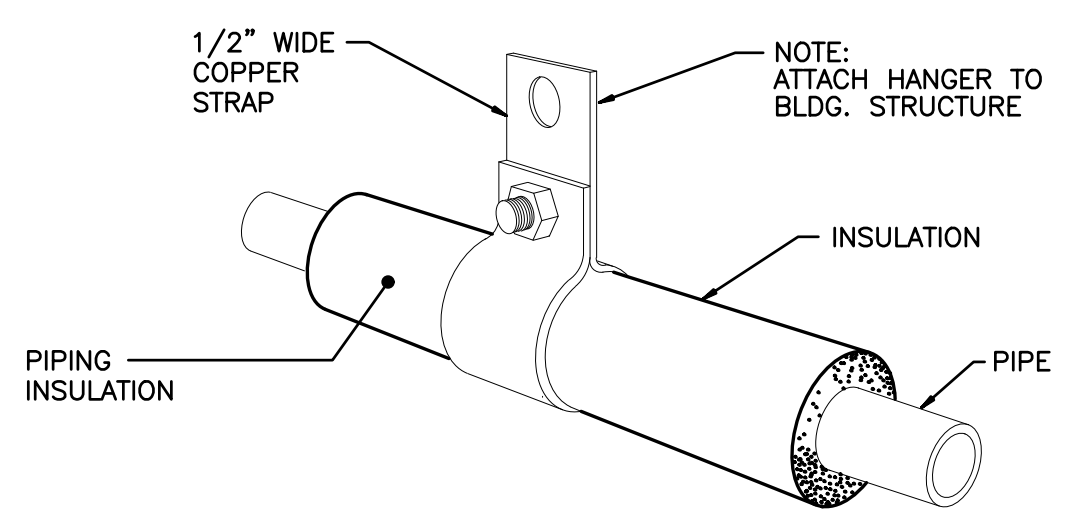
4 OUTDOOR UNIT DETAIL (TYPICAL)  
M2.0 SCALE: NONE



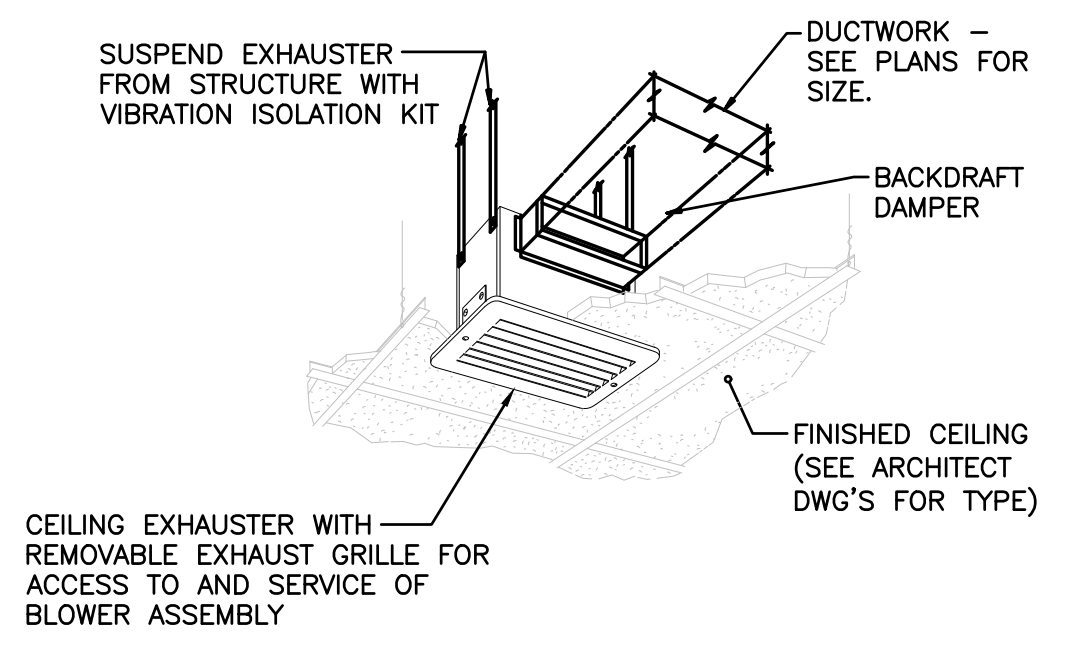
5 LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS  
M2.0 SCALE: NONE



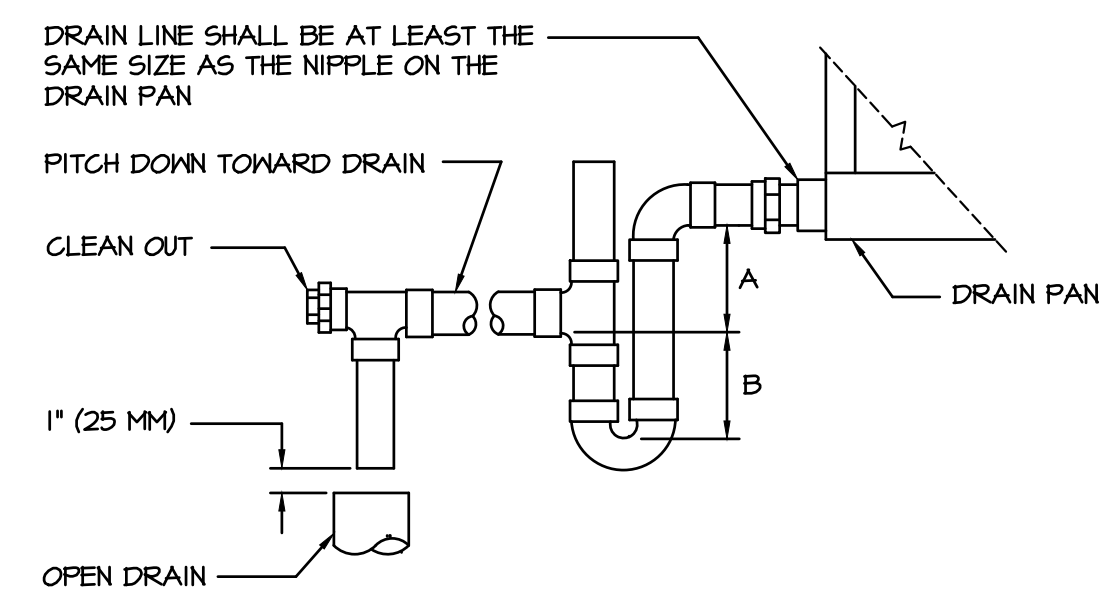
9 DRYWELL DETAIL  
M2.0 SCALE: NONE



8 REFRIGERANT PIPING HANGER DETAIL  
M2.0 SCALE: NONE



7 CEILING EXHAUST FAN DETAIL  
M2.0 SCALE: NONE



DESIGNER'S NOTE:

UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MIN.	2X

WHERE X = STATIC PRESSURE IN PAN

6 AHU DRAIN TRAP DETAIL  
M2.0 SCALE: NONE

PHASE 2 DRAWINGS FOR  
ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.:  
DRAWN: RJS  
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DATE: 2021.07.06  
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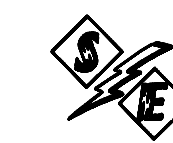
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SHEET NO.:

M2.0

HVAC DETAILS

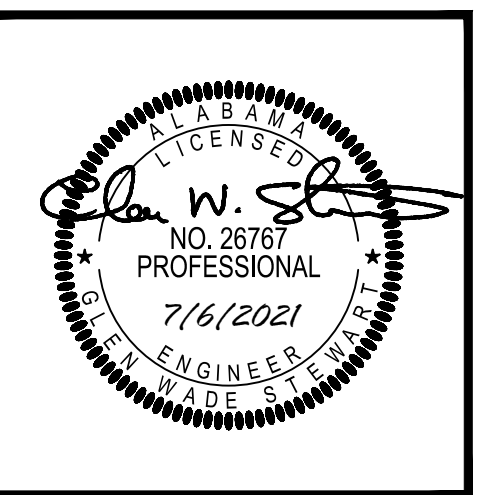




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**POWER & LIGHTING LEGEND**

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
	SINGLE POLE TOGGLE SWITCH, 120/277V, 20A. 3"-10" AFF
	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH, 120/277V, 20A. 3"-10" AFF
	MOTOR RATED SWITCH, VERIFY REQUIREMENT AND # OF POLES W/ EQUIPMENT
	SINGLE POLE, THREE POSITION MOMENTARY CONTACT, 120/277 V, 20A. 3"-10" AFF
	DIMMER SWITCH. 120/277V, FLUOR/INC AND AMPERAGE AS REQUIRED. 3"-10" AFF
	KEYED SWITCH. 120/277V, AMPERAGE AS REQUIRED. 3"-10" AFF
	LOW VOLTAGE SWITCH. 3"-10" AFF
	OCCUPANCY SENSOR, 3"-10" AFF WALL/CEILING MTD.
	OCCUPANCY SENSOR, 3"-10" AFF DUAL RELAY FOR LIGHTING/EXHAUST FAN
	OCCUPANCY SENSOR, RELAY/POWER PACK, CONCEALED, ACCESSIBLE.
	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, 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
	ABOVE GROUND CONDUIT
	UNDERGROUND CONDUIT
	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		MAXIMUM
	ABOVE		MAIN CIRCUIT BREAKER
	ALTERNATING CURRENT		MOTOR CONTROL CENTER
	AIR CONDITIONING		TODD CIRCULAR MILS
	ABOVE FINISH CEILING		MECHANICAL
	ABOVE FINISH FLOOR		MANHOLE
	ABOVE FINISH GRADE		MINIMUM
	AMPERE INTERRUPTING CAPACITY		MISCELLANEOUS
	ALUMINUM		MAIN LUGS ONLY
	APPROXIMATE(LY)		MANUFACTURER
	ARCHITECT(URAL)		MOUNTED
	AUTOMATIC TRANSFER SWITCH		MOUNTING
	AUXILIARY		MANUAL TRANSFER SWITCH
	AMERICAN WIRE GAGE		NEUTRAL
	BACKBOARD		NOT APPLICABLE
	BREAKER		NORMALLY CLOSED
	BUILDING		NATIONAL ELECTRICAL CODE
	CONDUIT		NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
	CABINET		NATIONAL FIRE PROTECTION ASSOCIATION
	CIRCUIT		NOT IN CONTRACT
	CEILING		NIGHT LIGHT
	CONTROL		NORMALLY OPEN
	CURRENT TRANSFORMER		NUMBER
	CABLE TELEVISION		OUTSIDE DIAMETER
	COPPER		POLE
	COLD WATER PIPE		POWER FACTOR
	DIRECT BURIAL		PHASE
	DIRECT CURRENT		PAD MOUNTED SWITCH
	DEGREE		PAD MOUNTED TRANSFORMER
	DUAL ELEMENT TIME DELAY		PANEL
	DIRECTED		PRIMARY
	DISCONNECT SWITCH		FURNISH AND INSTALL
	DOWN		POTENTIAL TRANSFORMER
	DOUBLE POLE - SINGLE THROW		POLYETHYLENE CHLORIDE
	DOUBLE POLE - DOUBLE THROW		PVC
	DRY TYPE TRANSFORMER		PART WINDING
	DISHWASHER		REFERENCE
	EACH		REQUIRED
	EXHAUST		RATED LOAD AMPERES
	EMERGENCY		ROOM
	ELECTRICAL METALLIC TUBING		RIGID NONMETALLIC CONDUIT
	EXPLOSION PROOF		ELECTRICAL RANGE
	EQUIPMENT		REFRIGERATOR
	EXISTING, REMOVE		RAIN TIGHT
	ELECTRIC WATER COOLER		SHORT CIRCUIT CURRENT RATING
	EXISTING, REPLACE WITH NEW		SCHEDULE
	FUSE		SECONDARY
	FLUSH MTC		SECONDARY
	FIRE ALARM		SHIELD
	FLOOR		INTERNATIONAL SYSTEM OF UNITS
	FULL LOAD AMPERES		SINGLE LINE DIAGRAM
	FLEXIBLE METAL CONDUIT		SURFACE METALLIC RACEWAY
	GAUGE		SOLID NEUTRAL
	GALVANIZED		SPECIFICATIONS
	GROUND FAULT INTERRUPTER		SINGLE POLE - DOUBLE THROW
	GROUND		SINGLE POLE - SINGLE THROW
	HEAVY DUTY HANDHOLE		STATIC TRANSFER SWITCH
	HORSEPOWER		SWITCH
	HIGH VOLTAGE		SWITCH BOARD
	HEATING/VENTILATION/AIR COND.		SWITCHGEAR
	HERTZ (CYCLES PER SECOND)		TERMINAL BACKBOARD
	INSIDE DIAMETER		TELEPHONE
	ISOLATED GROUND		TEMPERATURE
	INTERMEDIATE METAL CONDUIT		TRANSIENT VOLTAGE SURGE SUPPRESSORS
	JUNCTION BOX		TYPICAL
	KILO (1000)		UNDERWRITER'S LABORATORY
	KILO CIRCULAR MILS		VOLTS
	KILO VOLTS		VOLTS ALTERNATING CURRENT
	KILO VOLT - AMPERES		VOLTS DIRECT CURRENT
	KILO WATTS		VENTILATION
	LIQUIDTIGHT FLEXIBLE CONDUIT		WIRE
	LIGHTING		WEATHERPROOF
	LOW VOLTAGE		WATERTIGHT
			ZONE
			FEET
			INCHES

**AUXILIARY LEGEND**

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

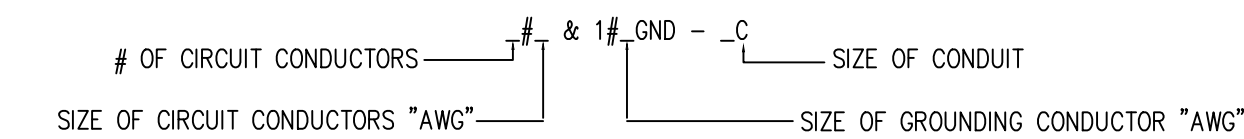
	FIRE ALARM MANUAL PULL STATION, 3'-10" AFF
	FIRE ALARM STROBE / HORN-STROBE, 7'-6" AFF
	FIRE ALARM STROBE / HORN-STROBE. CEILING MOUNTED.
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM DUCT-MOUNTED SMOKE DETECTOR W/ SAMPLING TUBE.
	FIRE ALARM REMOTE TEST STATION, 3'-10" AFF
	FIRE ALARM HEAT 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
	DATA OUTLET AND COVER PLATE, MOUNTED ON COLUMN OR POWER POLE,
	FLOOR BOX, ROUND WITH DUPLEX RECEPTACLE, TELEPHONE AND DATA OUTLET. FLOOR BOX COVER SHALL BE BRASS WITH HINGED COVERS FOR DEVICES. ("2D"= DUAL DATA OUTLET, "4D"= QUAD DATA OUTLET)
	CATV OUTLET SINGLE GANG BOX WITH 3/4" C TO AAF. VERIFY HEIGHT
	AUDIO SYSTEM SPEAKER. FURNISHED AND INSTALLED BY OTHERS.
	AUDIO VOLUME CONTROL. SINGLE GANG EMPTY OUTLET INSTALLED AT 46" AFF WITH 3/4" C TO AAF WITH DATA BUSHING.
	SECURITY CAMERA. PROVIDE ROUGH-IN OUTLET ONLY WITH 3/4" C TO SERVER ROOM IN DESIGNATED AREA ALLOCATED FOR CAMERA HEADEND EQUIPMENT.

**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)
	HOME RUN	HOMERUN (TYP) TO PANEL 'PPA'; CONNECT TO CIRCUIT NO.'S "5, 6, & 7" EX: 3#12 (PH), 1#12 (N) & 1#12 GND
	HOME RUN (ALTERNATE)	HOMERUN USING 2#8, 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:**

- "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR ONE LAMP OPERATIONAL AT ALL TIMES.
- ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
- 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
- UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.



**ELECTRICAL NOTES**

- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- ALL WORK SHALL COMPLY WITH IBC 2018, NEC 2017, STATE AND LOCAL CODES WHERE APPLICABLE. VERIFY WITH AUTHORITY HAVING JURISDICTION AND COMPLY AS REQUIRED.
- 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.
- 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.
- 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.
- ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL "RGS" OR "TMC". EMT SHALL NOT BE ACCEPTABLE. COORDINATE WITH ARCHITECT IF FINISH PAINTING SHALL BE REQUIRED.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- 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.
- ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER IBC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
- COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT.
- 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.
- 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.
- 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.
- CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT THHN INSULATION.
- 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.
- THE USE OF MC CABLE IS PERMISSIBLE ONLY IN CONCEALED LOCATIONS AND FOR FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES.
- 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.
- 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.

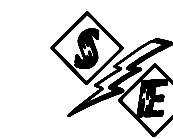
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 DRAWN: GWS  
 CHECKED: GWS  
 DATE: 2021.04.22  
 REVISION:

SCALE: AS SHOWN

SHEET NO.:

**E1.0**

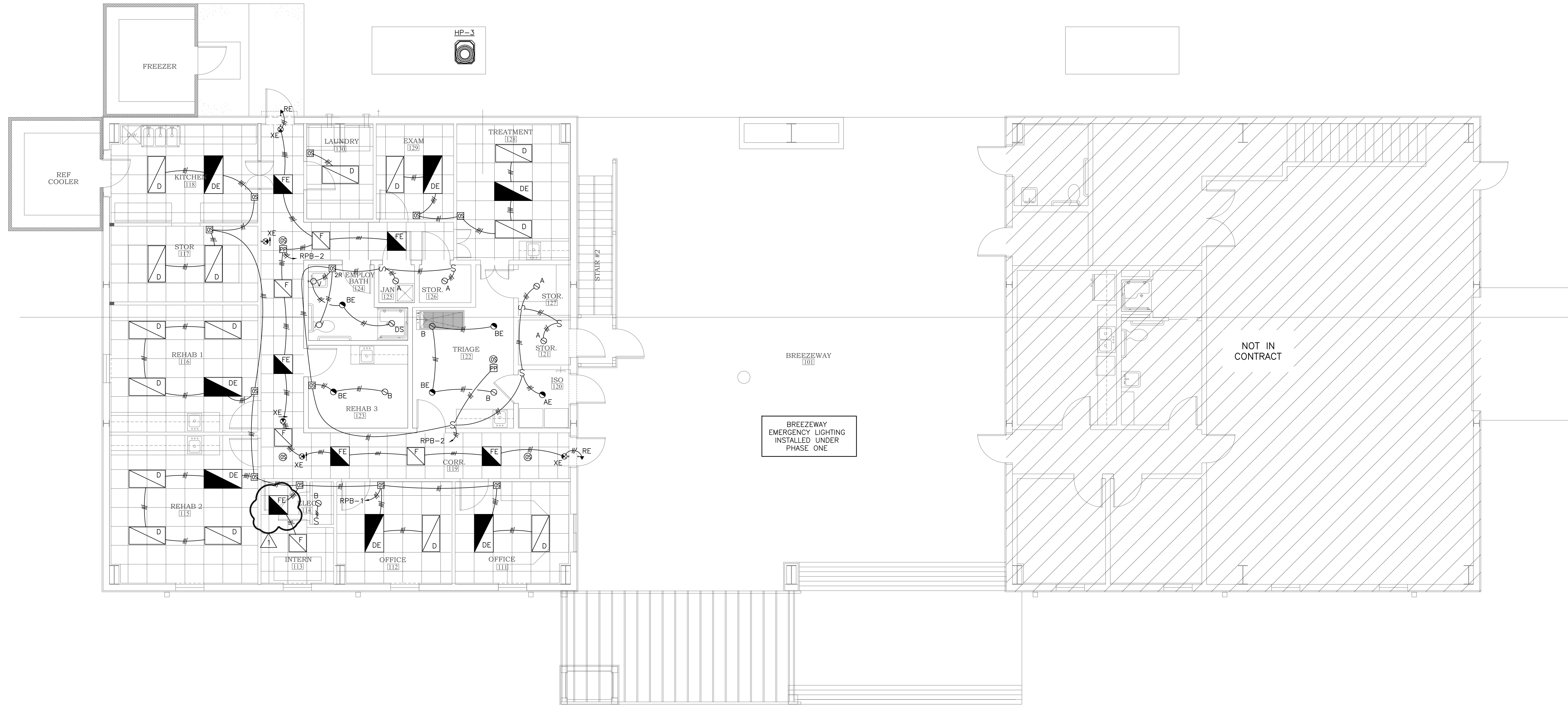
ELECTRICAL NOTES AND LEGEND



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LIGHTING PLAN - FIRST FLOOR  
SCALE: 3/16" = 1'-0"

WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION: 2021.08.10

SCALE: AS SHOWN

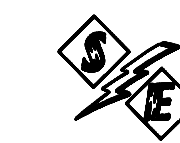
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LIGHTING PLAN ALTERNATES

PHASE 2

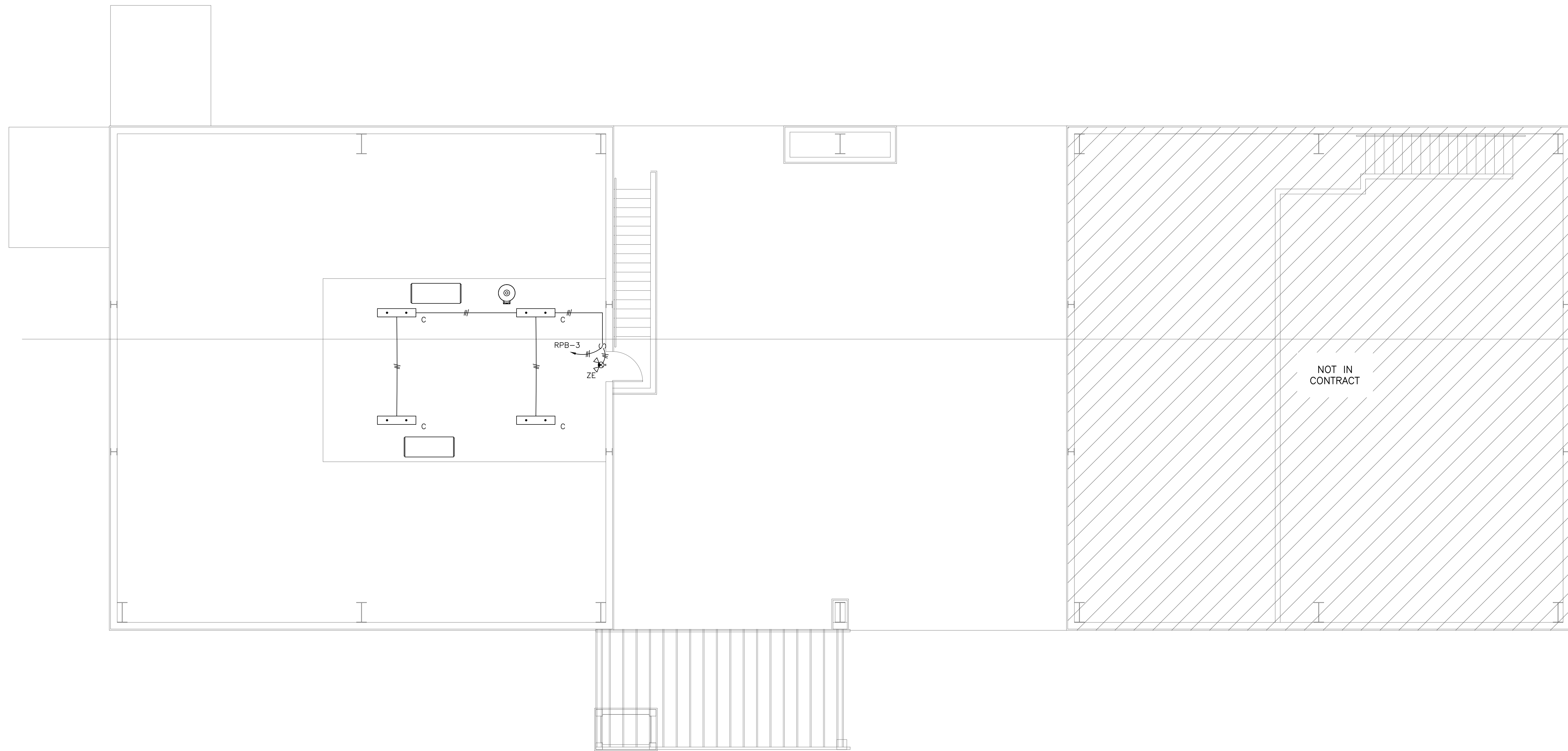
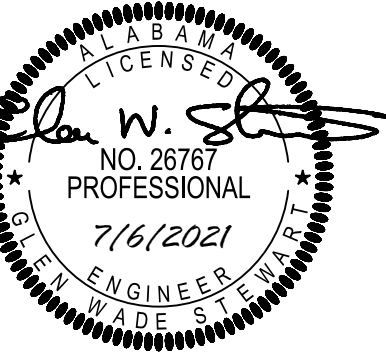




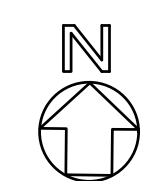
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WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

 1 LIGHTING PLAN- SECOND FLOOR  
E.1.2 SCALE: 3/16" = 1'-0"

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

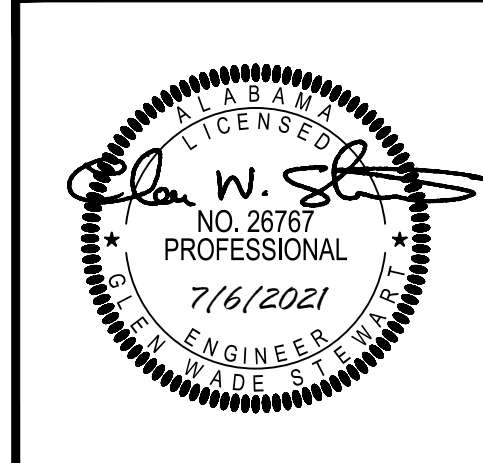
SCALE: AS SHOWN

SHEET NO.:

E1.2

LIGHTING PLAN  
2ND FLOOR ALTERNATES

PHASE 2



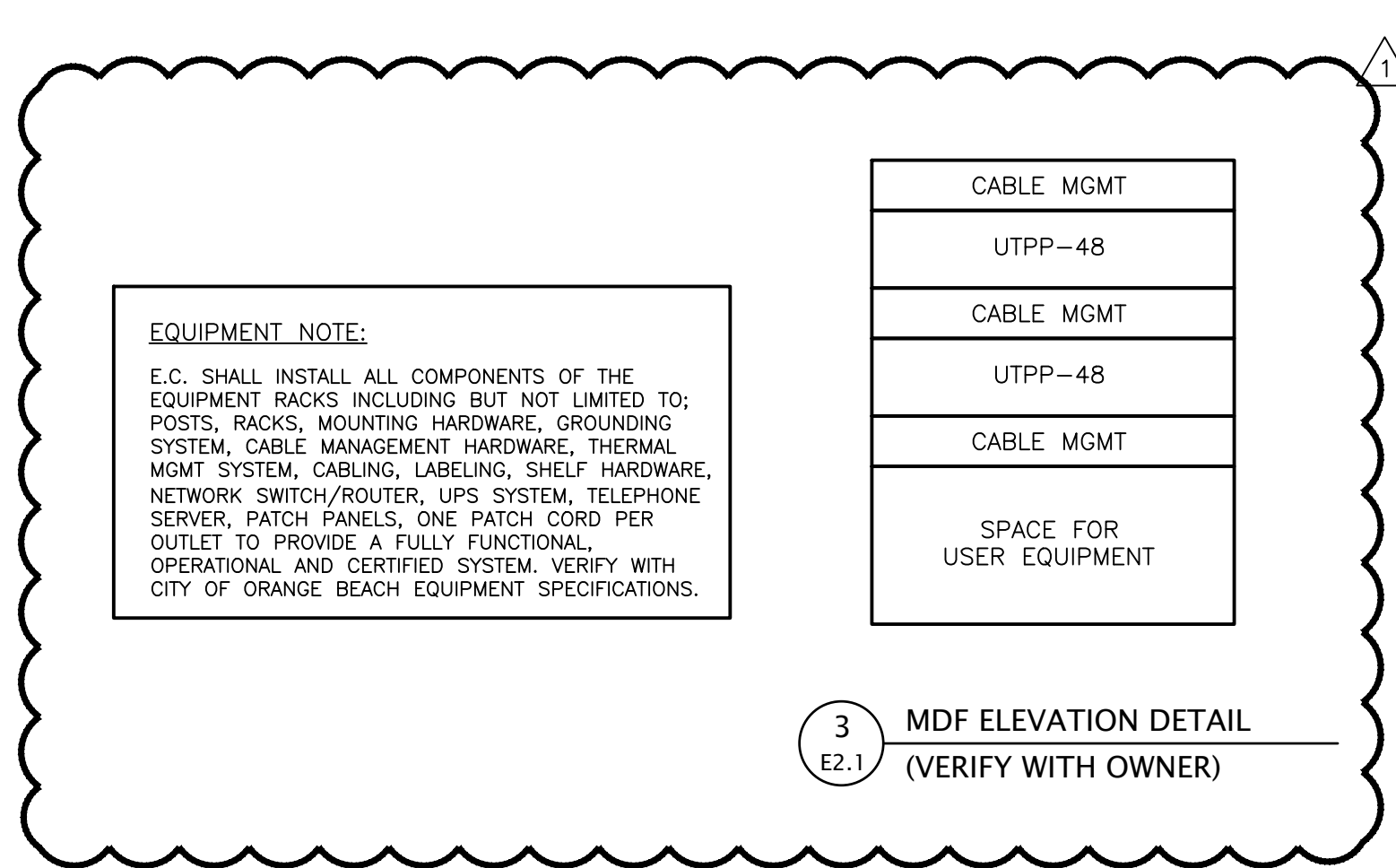
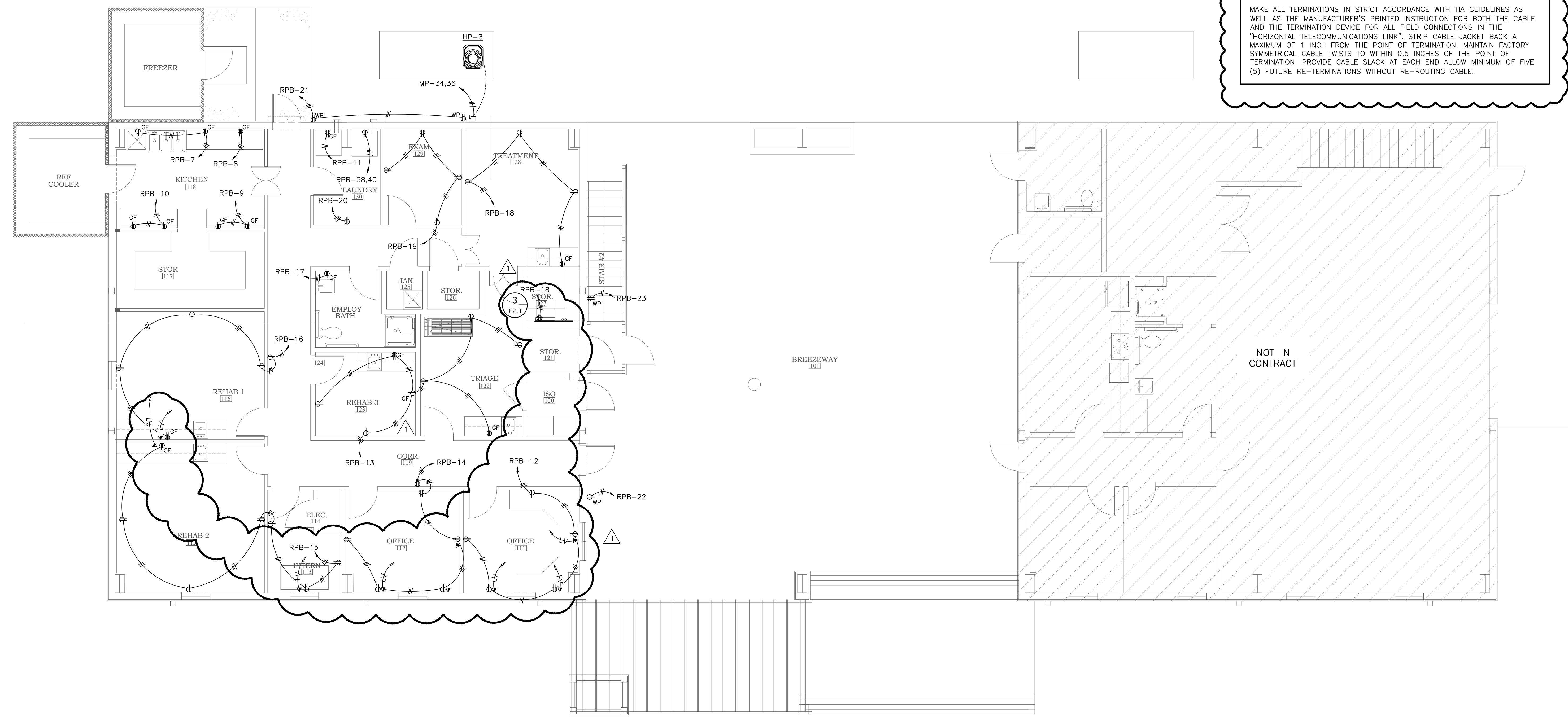
**WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: GWS  
 CHECKED: GWS  
 DATE: 2021.04.22  
 REVISION: 2022.01.04

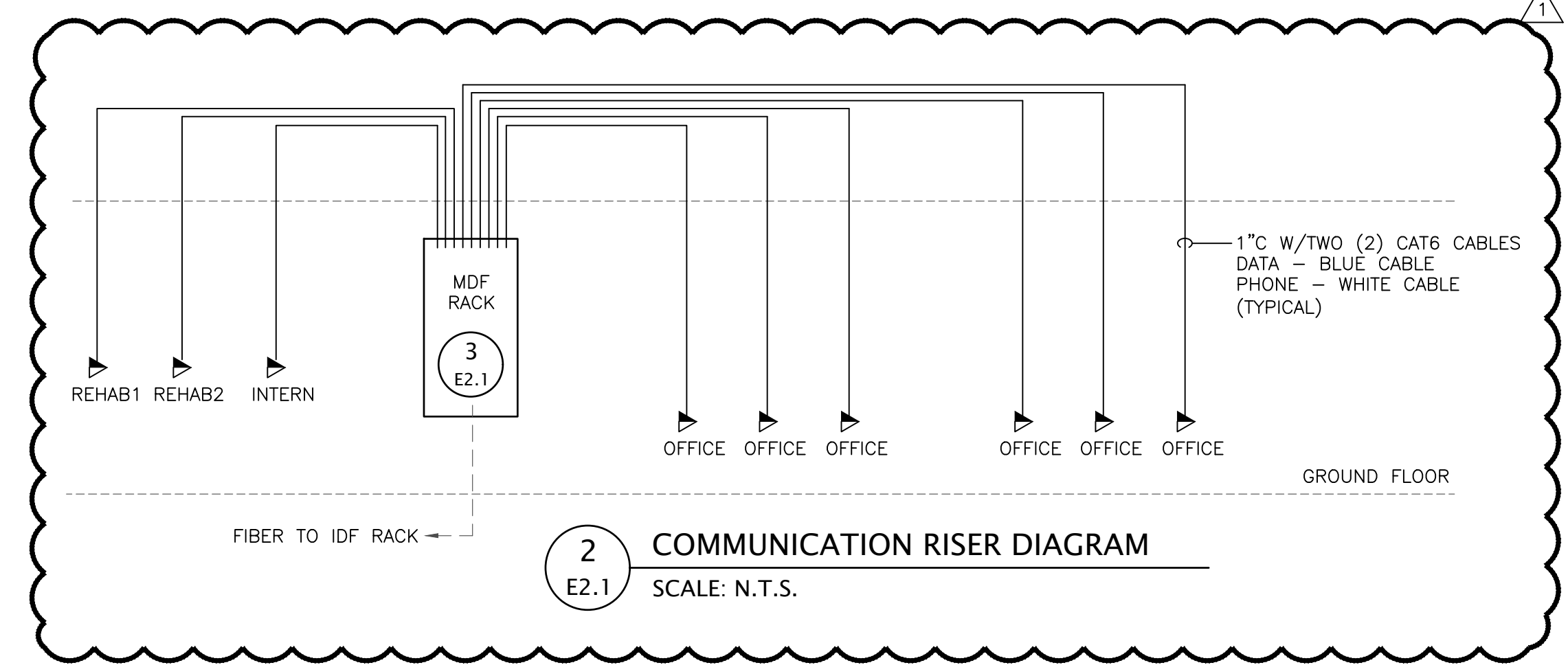
SCALE: AS SHOWN

SHEET NO.:  
**E2.1**  
 POWER & AUX  
 FIRST FLOOR ALTERNATES

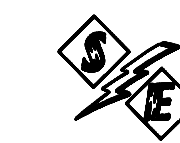
**CATEGORY 6 TERMINATION NOTE:**  
 MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUIDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTION FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END ALLOW MINIMUM OF FIVE (5) FUTURE RE-TERMINATIONS WITHOUT RE-ROUTING CABLE.



**1** POWER & AUX - FIRST FLOOR  
 SCALE: 3/16" = 1'-0"



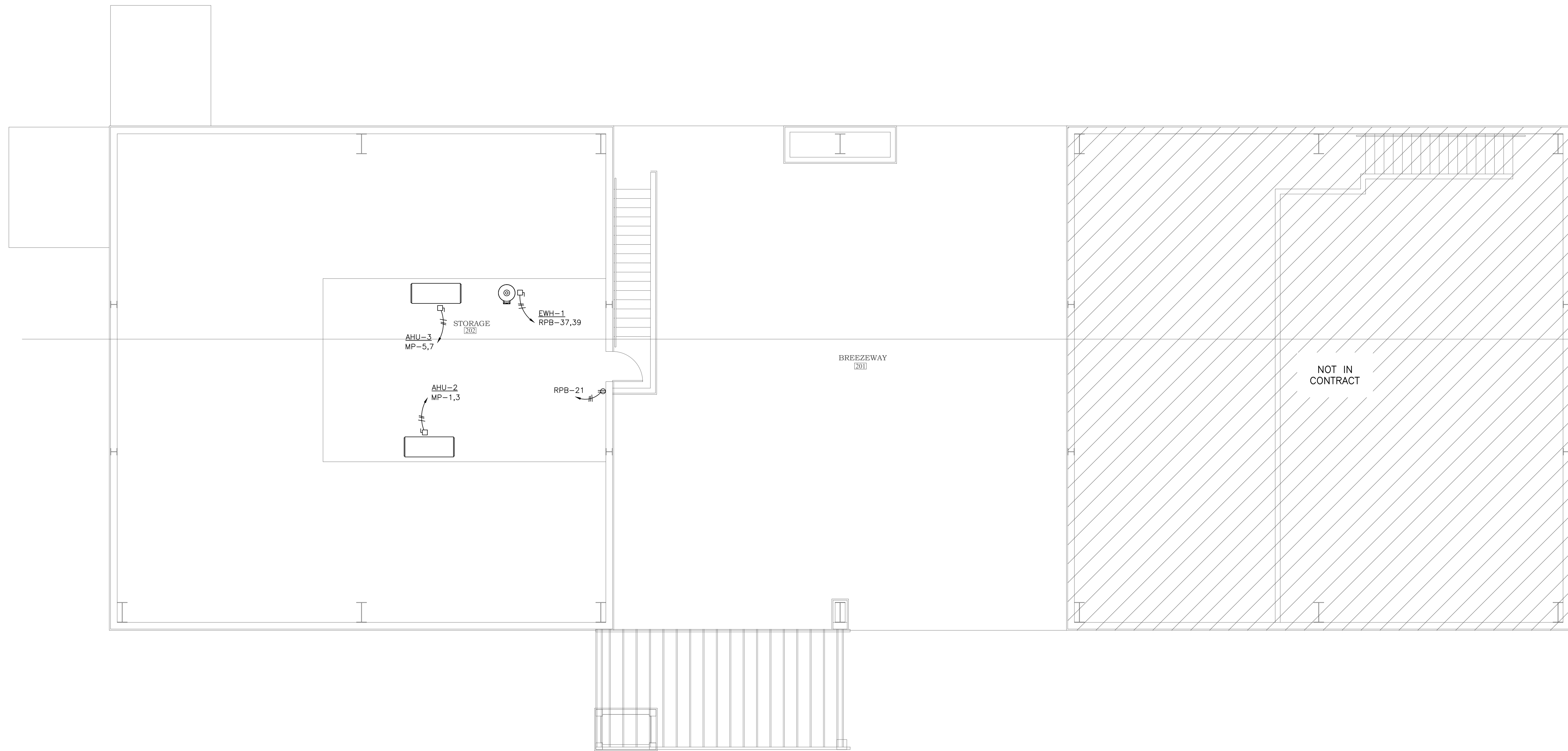
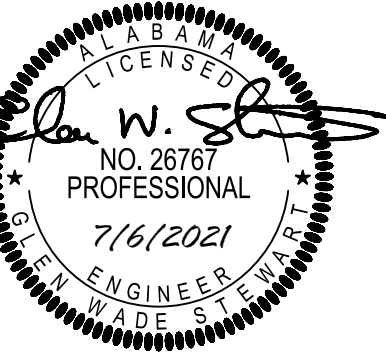


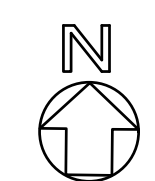


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 1  
E2.2 POWER PLAN - SECOND FLOOR  
SCALE: 3/16" = 1'-0"

WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

JOB NO.:  
DRAWN: GWS  
CHECKED: GWS  
DATE: 2021.04.22  
REVISION:

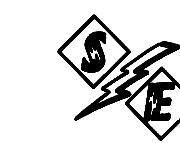
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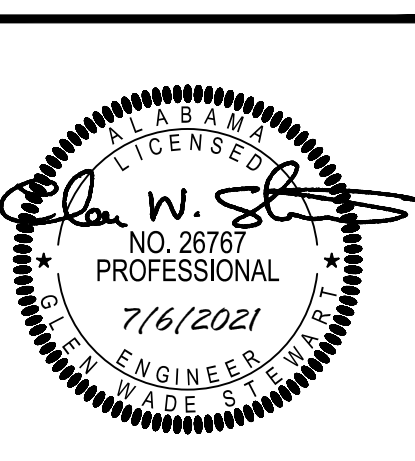
E2.2

POWER PLAN  
SECOND FLOOR

PHASE 2



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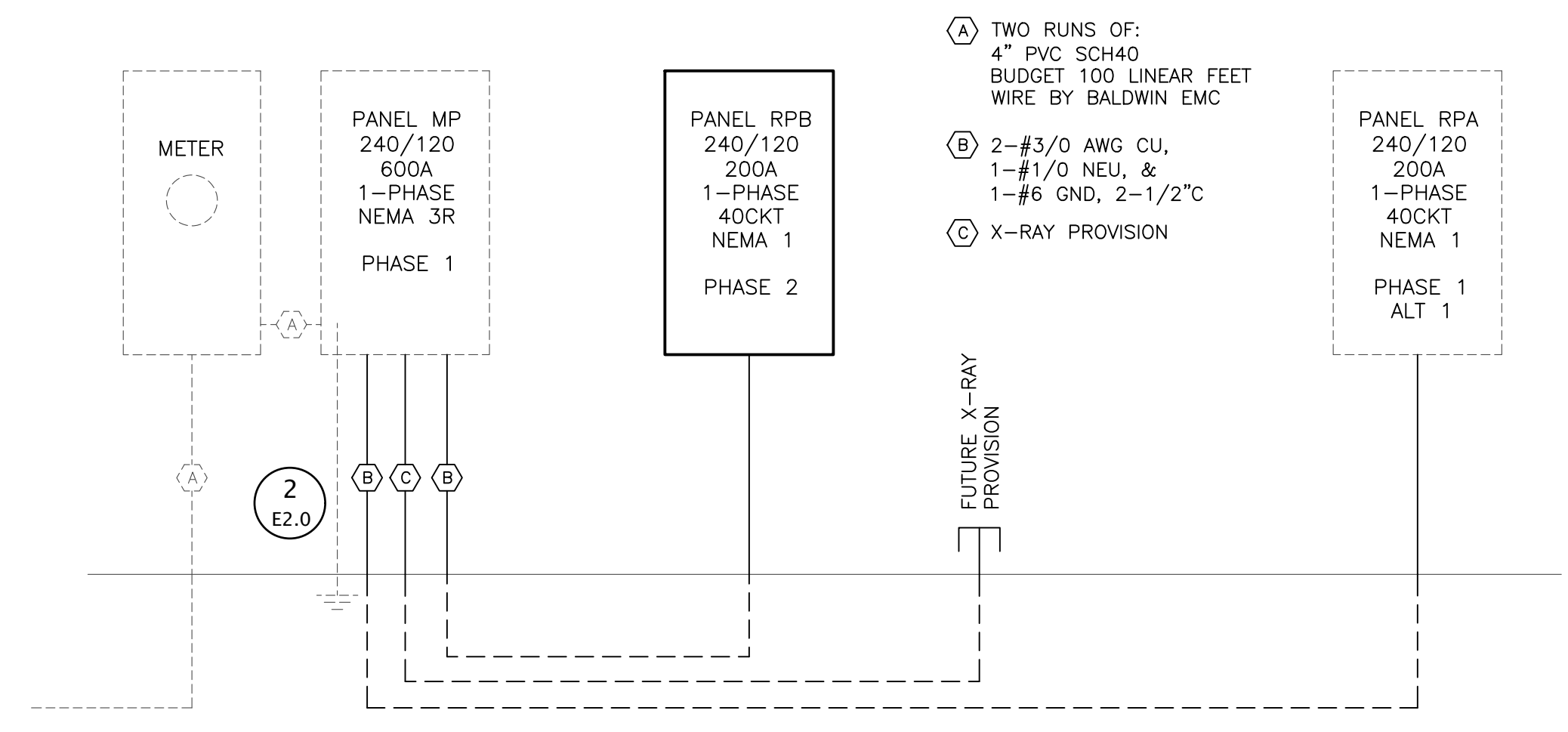


**WILDLIFE CENTER**  
 ORANGE BEACH ALABAMA

PANEL MP											
VOLTAGE (L-N):	120	ENCLOSURE TYPE:	NEMA 3R								
VOLTAGE (L-L):	240	MOUNTING:	SURFACE								
PHASES, WIRES:	1 $\Phi$ , 3 W	AIC RATING:	10000								
MINIMUM BUS CAPACITY (A):	600 A	NOTES:	----								
MAIN O.C. DEVICE (A):	600 A										
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	POLE					
1,3	AHU-2	30	2	3360	102	3360	1548	1	20	LGTS, EXT.	2
1,3	AHU-2	30	2					1	20	LGTS, BREEZEWAY	4
5,7	AHU-3	30	2	3360	0			2	20	SPACE	6,8
5,7	AHU-3	30	2			3360	0	2	20	SPACE	6,8
9,11	SPACE	20	2	0	0			2	20	SPACE	10,12
9,11	SPACE	20	2					2	20	SPACE	10,12
13,15	SPACE	20	2	0	0			2	20	SPACE	14,16
13,15	SPACE	20	2					2	20	SPACE	14,16
17,19	SPACE	20	2	0	0			2	20	SPACE	18,20
17,19	SPACE	20	2					2	20	SPACE	18,20
21,23	SPACE	20	2	0	0			2	20	SPACE	22,24
21,23	SPACE	20	2					2	20	SPACE	22,24
25,27	AHU-1	30	2	3360	1920			2	25	HP-1	26,28
25,27	AHU-1	30	2			3360	1920	2	25	HP-1	26,28
29,31	PANEL RPA	200	2	17025	0			2	40	HP-2	30,32
29,31	PANEL RPA	200	2			14676	0	2	40	HP-2	30,32
33,35	PANEL RPB	200	2	14980	4560			2	60	HP-3	34,36
33,35	PANEL RPB	200	2			12004	4560	2	60	HP-3	34,36
37,39	SPARE	30	2	0	0			2	30	GP-1	38,40
37,39	SPARE	30	2					2	30	GP-1	38,40
				CONNECTED LOAD PHASE TOTALS (VA)							
				48667		44788					
				CONNECTED LOAD (kVA)	DEMAND FACTOR	DEMAND LOAD (kVA)	DEMAND LOAD		SPARE CAPACITY		
				1.6	1.25	2.1	82.5 KVA		61.5 KVA		
				0.0	1.00	0.0	SPARE CAPACITY		256.1 AMPS		
				1.5	1.25	1.9	SPARE CAPACITY		43%		
				10.0	1.00	10.0					
				25.1	0.50	12.6					
				13.0	1.00	13.0					
				9.6	1.00	9.6					
				29.2	1.00	29.2					
				3.5	1.25	4.3					
TOTAL:				93.5		82.5					
LOAD (AMPS):				389.4		343.9					

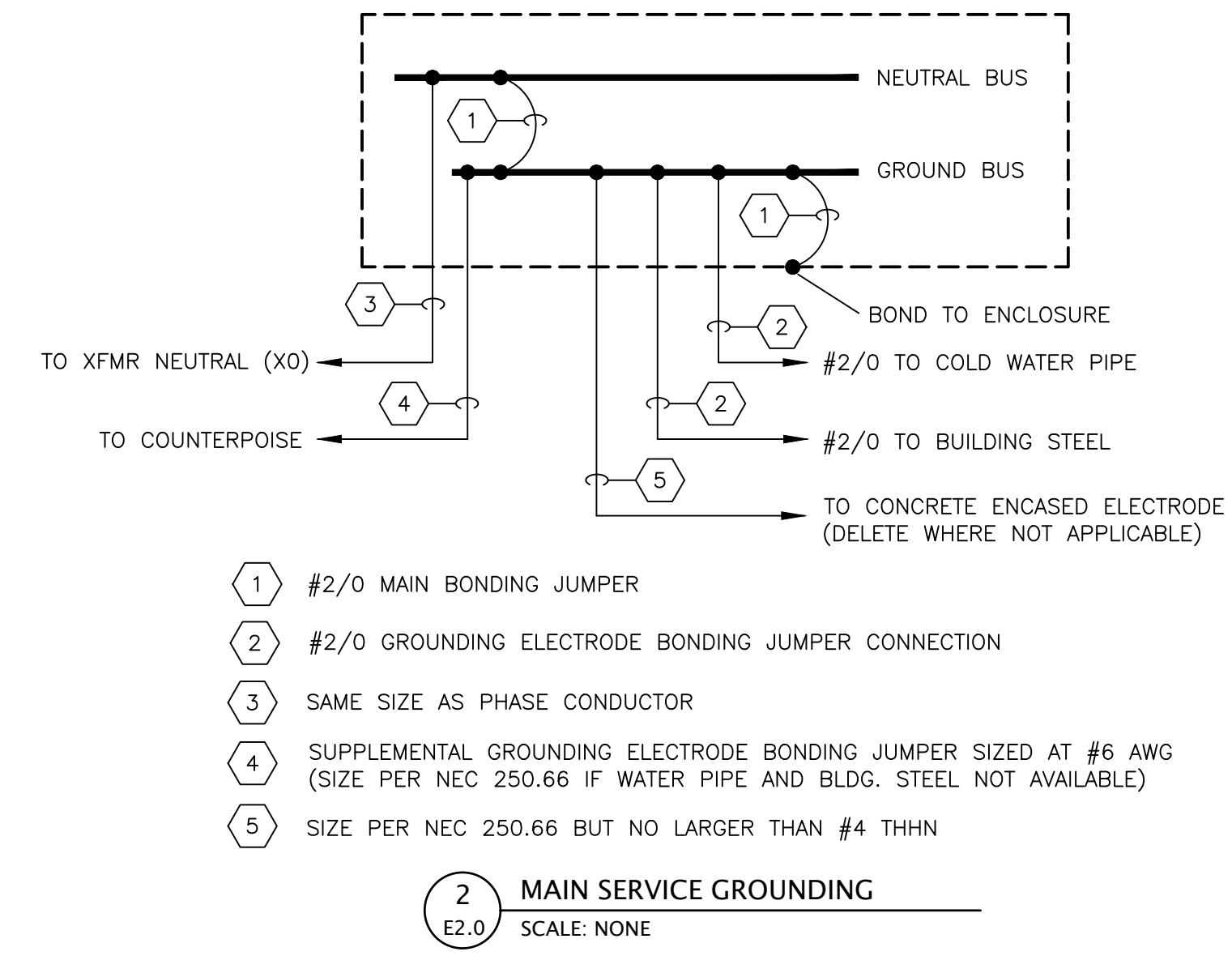
CONDUCTOR SCHEDULE			
CONDUCTORS / CONDUITS SHALL BE SIZED ACCORDING TO THE FOLLOWING CHART UNLESS OTHERWISE NOTED.			
CKT BKR	WIRE (AWG)	EQUIP. GND	CONDUIT
15	12	#12	3/4"
20	12	#12	3/4"
30	10	#10	3/4"
40	8	#10	1"
50	6	#10	1"
60	6	#10	1"
70	4	#8	1-1/4"
80	4	#8	1-1/4"
90	3	#8	1-1/4"
100	3	#8	1-1/4"
125	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. ALL HVAC 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 BASES 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 COPPER CONDUCTORS.  
 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.



1 ELECTRICAL RISER  
 SCALE: NONE

PANEL RPB											
VOLTAGE (L-N):	120	ENCLOSURE TYPE:	NEMA 1								
VOLTAGE (L-L):	240	MOUNTING:	SURFACE								
PHASES, WIRES:	1 $\Phi$ , 3 W	AIC RATING:	10000								
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	----								
MAIN O.C. DEVICE (A):	200 A										
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	POLE					
1	LGTS, 111-119	20	1	1117	713			1	20	LGTS, 120-130	2
3	LGTS, MEZZ STOR	20	1			104	0	1	20	SPARE	4
5	SPARE	20	1	0	0			1	20	SPARE	6
7	REC, KITCHEN	20	1			1150	1500	1	20	REC, KITCHEN	8
9	REC, KITCHEN	20	1	1500	1500			1	20	REC, KITCHEN	10
11	WASHER	20	1			400	1000	1	20	REC, 111	12
13	REC, 122/123	20	1	1600	1200			1	20	REC, 111/112	14
15	REC, 113/115	20	1			1400	1000	1	20	REC, 116/COOR	16
17	REC, 124	20	1	1500	800			1	20	REC, 128	18
19	REC, 129	20	1			800	200	1	20	REC, 130	20
21	REC, EXT/MEZZ.	20	1	600	200			1	20	SPARE	22
23	SPARE	20	1			200	0	1	20	SPARE	24
25	SPARE	20	1	0	0			1	20	SPARE	26
27	SPARE	20	1	0	0			1	20	SPARE	28
29	SPARE	20	1	0	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			1	20	SPARE	36
37,39	EW-1	30	2	2250	2000			2	30	DRYER	38,40
37,39	EW-1	30	2			2250	2000	2	30	DRYER	38,40
				CONNECTED LOAD PHASE TOTALS (VA)							
				14980		12004					
				CONNECTED LOAD (kVA)	DEMAND FACTOR	DEMAND LOAD (kVA)	DEMAND LOAD		SPARE CAPACITY		
				10.0	1.00	10.0	22.2 KVA		25.8 KVA		
				10.6	0.50	5.3	SPARE CAPACITY		107.5 AMPS		
				0.0	1.00	0.0	SPARE CAPACITY		54%		
				4.5	1.00	4.5					
				1.9	1.25	2.4					
TOTAL:				27.0		22.2					
LOAD (AMPS):				112.4		92.5					



2 MAIN SERVICE GROUNDING  
 SCALE: NONE

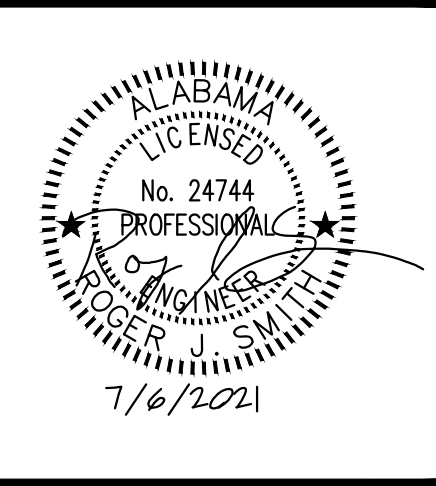
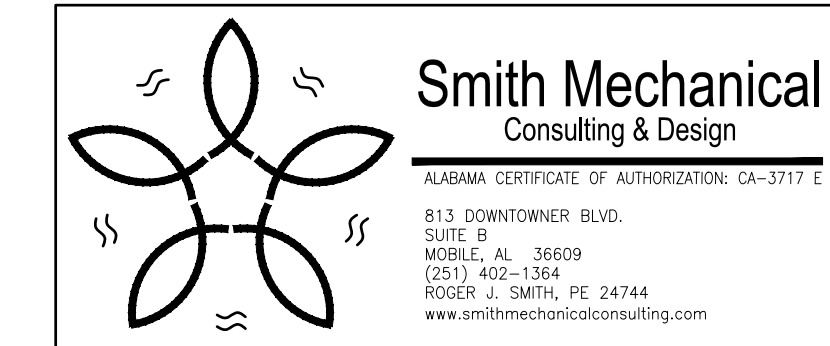
PANELBOARD SCHEDULE AND DETAIL NOTES:

- PANELBOARD & PANELBOARD INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, ART. 384. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THIS LISTING AND FULLY SUPPORTED BY MEANS DESIGNED FOR THAT LISTED INSTALLATION. ALL CLEARANCES REQUIRED BY CODE SHALL BE MAINTAINED AS MINIMUM.
- EACH PANELBOARD SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED CAN, INTERNAL HANDWARD, DEVICES, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION TO PROVIDE THE DESIGNED PERFORMANCE UNDER THE AMBIENT CONDITIONS ENCOUNTERED. ALL DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION. ALL DEVICES INSTALLED SHALL HAVE AN INTERRUPTING RATING GREATER THAN OR EQUAL TO THE SPECIFIED SCCR.
- EACH PANELBOARD SHALL BE FURNISHED WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE. THIS GROUND BUS SHALL BE UTILIZED TO BOND ALL GROUNDING PROVISIONS IN ORDER TO ESTABLISH EQUAL POTENTIAL TO ALL GROUNDED COMPONENTS OF THE POWER SYSTEM.
- PANELBOARD CANS SHALL BE RIGID AND CONTAIN KNOCKOUT PROVISIONS TO FACILITATE THE TERMINATION OF THE NUMBER AND SIZE OF CONDUIT SYSTEMS REQUIRED.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP AND BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
- CONDUCTORS, SPLICES AND TERMINATIONS SHALL BE ACCESSIBLE. ONLY CONDUCTORS RATED AND SIZED FOR THE TEMPERATURE OF THE TERMINATION SHALL BE USED.
- PANELBOARDS SHALL NOT BE INSTALLED IN CONTACT WITH COMBUSTIBLE MATERIALS. ADEQUATE SPACE FOR AIR CIRCULATION AND CODE COMPLIANCE SHALL BE PROVIDED AS A MINIMUM. FURNISH SPACERS, WASHERS, SUPPORTING DEVICES, ETC., AS REQUIRED TO MAINTAIN PROPER CLEARANCES.
- ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 1" EMPTY SPARE CONDUITS TO ABOE THE NEAREST ACCESSIBLE CEILING.

LIGHTING FIXTURE SCHEDULE																				
ID	DESCRIPTION	ELECTRICAL DATA			LAMP DATA		BASIS OF DESIGN			MOUNT TYPE										
		LOAD VA	VOLTAGE	QTY	LUMENS	MANUFACTURER	MODEL OR SERIES	CEILING	FLOOR	GROUND	POLE	ROOF	SUSPENDED	WALL	FLUSH	FEDERAL	PENDANT	RECESSED	SURFACE	TRUCK
A	DOWN LIGHT	20	120	--	1500	LITHONIA	LDN6 40/15 LO6AR LS													
B	DOWN LIGHT	20	120	--	2000	LITHONIA	LDN6 40/20 LO6AR LS													
BE	DOWN LIGHT	20	120	--	2000	LITHONIA	LDN6 40/20 LO6AR LS ELSD													
C	STRIP	15	120	--	1500	LITHONIA	ZL1N L24 1500LM FST MVOLT 4000K 80 WH													
D	2X4 TROFFER	49	120	--	5400	LITHONIA	EPANL 2X4 5400 80CRI 40K													
DE	2X4 TROFFER	49	120	--	5400	LITHONIA	EPANL 2X4 5400 80CRI 40K E10WCP													
F	2X2 TROFFER	31	120	--	3400	LITHONIA	EPANL 2X2 3400 80CRI 40K													
FE	2X2 TROFFER	31	120	--	3400	LITHONIA	EPANL 2X2 3400 80CRI 40K E10WCP													
V	VANITY	20	120	--	--		ALLOWANCE \$150													
VT	VAPORTIGHT	116	120	--	15000	LITHONIA	VAP 15000LM PCL WD 40K 80CRI													
W	WALL PACK	30	120	--	4000	LITHONIA	ARC2 LED P4 40K MVOLT DDBXD													
RE	REMOTE EGRESS	6	120	--	--	EMERGI-LITE	EF44-2-LED-WP													
YE	EMERGENCY LIGHT	1	120	--	--	EMERGI-LITE	EL-2LED (LITE-2-LG-FINISH-N)													
ZE	EXIT/EMER. COMBO	1	120	--	--	EMERGI-LITE	ELXN400-G-2LED-R													

JOB NO.:  
 DRAWN: GWS  
 CHECKED: GWS  
 DATE: 2021.04.22  
 REVISION:  
 SCALE: AS SHOWN  
 SHEET NO.:  
**E3.0**  
 ELECTRICAL RISER AND DETAILS





PHASE 2 DRAWINGS FOR  
 ORANGE BEACH  
**WILDLIFE CENTER**  
 ORANGE BEACH  
 ALABAMA

JOB NO.:  
 DRAWN: RJS  
 CHECKED: RJS  
 DATE: 2021.07.06  
 REVISION:

SCALE: AS SHOWN

SHEET NO.:

**P1.0**

PLUMBING NOTES,  
 SCHEDULES AND LEGEND

PLUMBING FIXTURE SCHEDULE (PHASE 2)	
ID	DESCRIPTION
CB-1	ICE MAKER WATER CONNECTION. USE SIOUX CHIEF ICE MAKER OUTLET BOX WITH MINIRESTER 696 SERIES WITH 1/2" PEX CONNECTION; MOUNT @ 48" U.N.O. FURNISH FLEXIBLE CONNECTION FROM OUTLET BOX TO WALL MOUNTED WATER FILTER WITH FLEXIBLE CONNECTION TO APPLIANCE. WATER FILTER SHALL BE EQUAL TO WHIRLPOOL WHKF-DWHV OR EQUAL. FURNISH WITH ONE EXTRA FILTER. VERIFY WITH OWNER/CONTRACTOR. APPLIANCES FURNISHED BY OTHERS.
EWC-1	EWC-1. ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED WITH BOTTLE FILLER ELKAY LZSTLBSVRSK OR EQUAL WITH BOTTLE FILLER/FOUNTAIN ON LEFT AT ADA LEVEL; MCGUIRE 8902 TRAP; BRASSCRAFT 1912-A SUPPLY. MOUNT WITH LOWER SPOUT AT 36" AFF. CONNECTIONS: CW 1/2", WASTE 2", VENT 2" MIN.
FD-1	FLOOR DRAIN, J.R. SMITH 2005/2010 SERIES COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER AND GREEN DRAIN TRAP SEAL.
HB-1	HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".
MS-1	MOP BASIN - ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.
SH-1	SHOWER, ARRAY ADA3636, W/ CENTER DRAIN AS DESIGNATED IN PLAN DWGS, SHOWER, SOLID-SURFACE, SMOOTH SHOWER, SOAP HOLDER, GRAB BARS, FOLDING SEAT, ZURN Z7301-SS-MT-DV2P-HW-H7-S8 TEMP-GARD III SHOWER UNIT KIT WITH SINGLE HANDLE PRESSURE BALANCING & MIXING UNIT, 1.5 GPM SHOWER HEAD, FLEX METAL HOSE, INLINE VACUUM BREAKER, WALL CONNECTION, FLANGE AND WALL HOOK FOR HAND SHOWER, PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH ARM AND FLANGE. CONNECTIONS: CW 1/2", HW 1/2" TEMPERATURE LIMITING TO 110°F, WASTE 2", VENT 1-1/2" MIN.
SK-1	KITCHEN SINK, ELKAY CR3322, 20 GAUGE, STAINLESS STEEL, DOUBLE BOWL, 7" DEPTH, DROP IN TYPE, FURNISH WITH ELKAY LKD2437BHC GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SAN CONNECTION. NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. INCLUDE 1/4" FLEXIBLE SUPPLY CONNECTION TO REFRIGERATOR ICE MAKER UNIT. ROUTE TUBING CONCEALED IN BASE CABINET. STRAP TUBING TO REAR OF CABINET. EXISTING CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
SK-3	3 COMPARTMENT SINK - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
WC-1H	WC-1H WATER CLOSET. ZURN SERIES Z5660, FLOOR MOUNTED, ELONGATED WATER CLOSET, ZURN Z6000AV-W51 (1.6 gpi) FLUSH VALVE W/ SPLIT RING PIPE SUPPORT, & ZURN Z5855SS-EL OPEN FRONT SEAT WITHOUT COVER MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1", WASTE 3", VENT 2" MIN.
FS-1	FLOOR SINK, MIFAB FS1520-FLC-3-P, 8" SQUARE, 6" DEEP, CAST IRON, A.R.E. INTERIOR ALUMINUM DOME STRAINER, STAINLESS STEEL TOP W/CLAMPING DEVICE. FURNISH WITH PRO-SET TRAP SEAL. COORDINATE EXACT LOCATION OF DRAIN WITH ARCHITECTURAL PLANS SO AS TO CENTER FLOOR DRAIN CENTER OF TILE. FLOOR SHALL BE SLOPED TOWARD DRAIN.
HS-1	HAND SINK, ELKAY CR1721, 20 GAUGE, STAINLESS STEEL, SINGLE BOWL, DROP IN TYPE, FURNISH WITH ELKAY LK800GNO574 GOOSENECK FAUCET WITH LEVER HANDLES AND GRID WASTE. PROVIDE 1-1/2" P-TRAP AT EXISTING SAN CONNECTION. NEW 1/4" FLEXIBLE SUPPLIES AND WATER STOPS. CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". FURNISH WITH TEMPERATURE LIMITING DEVICE SET FOR 110°F
LV-1H	ZURN Z5840 SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; ZURN Z81104-XL FAUCET WITH LEVER HANDLES; ZURN Z8800 SUPPLIES; ZURN Z8700 TRAP; ZURN Z8746-PC ADA GRID STRAINER; ZURN Z8946-3-NI ADA PROTECTORS, ASSE 1070 APPROVED TEMPERATURE LIMITING VALVE SET TO 110°F, ZURN Z1231 CONCEALED ARM CARRIER, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.
MV-1	MIXING VALVE, EQUAL TO SYMMONS, 0.5 GPM MINIMUM, 5.5 GPM MAXIMUM @ 10 PSI PRESSURE DROP

WATER HEATER SCHEDULE													
TAG	ELECTRIC DATA				HYDRONIC DATA					BASIS OF DESIGN		WEIGHT	NOTES
	FLA	MOCP	VOLT PHASE	KW	EW	LWT	RATE OF RECOVERY	RISE OF RECOVERY	CAPACITY (GAL)	MFGR	MODEL		
	AMPS	AMPS			DEG.F	DEG.F	GPM	DEG. F					
EW-1	28	30	240/1	4	60	140	0.33	80	40	RHEEM	ELD40	108	ALL

NOTES:  
 1. 3/4" INLET/OUTLET CONNECTIONS  
 2. SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES. LAVATORIES SHALL BE EQUIPPED WITH INDIVIDUAL TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070.  
 3. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI  
 4. 1/2" INLET/OUTLET CONNECTIONS  
 5. INSTALL HOT WATER CIRC. PUMP RATED FOR 5 GPM, 20 FT HEAD PRESSURE, 120VAC, 1/12 HP, WITH AQUASTAT.

HOT WATER RECIRCULATION PUMP SCHEDULE									
MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	Hz	PHASE	NOTES
1	AQUASTAT	5	20	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4

NOTES:  
 1. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.  
 2. PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 110°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.

SAN  
 V  
**PLUMBING SYMBOL LEGEND**

---	DCW PIPING
---	DHW PIPING
---	DHC PIPING
---	WASTE PIPING
---	VENT PIPING
---	GAS PIPING
---	TRAP PRIMER PIPING
---	FIRE WATER WET PIPING
○	PIPE TURNING UP
○	PIPE TURNING DOWN
●	BALL VALVE
⊗	GATE VALVE
⊘	CHECK VALVE
⊕	TEMP/PRESSURE RELIEF VALVE
⊖	GAS COCK
⊕	UNION
○	CLEANOUT
○	FD FLOOR DRAIN
○	FS FLOOR SINK
⊕	HOSE BIBB
⊕	WHA WATER HAMMER ARRESTOR TYPE "A" (TYP)

**PLUMBING ABBREVIATIONS**

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS. REFER TO HVAC DRAWINGS FOR HVAC EQUIPMENT ABBREVIATIONS.

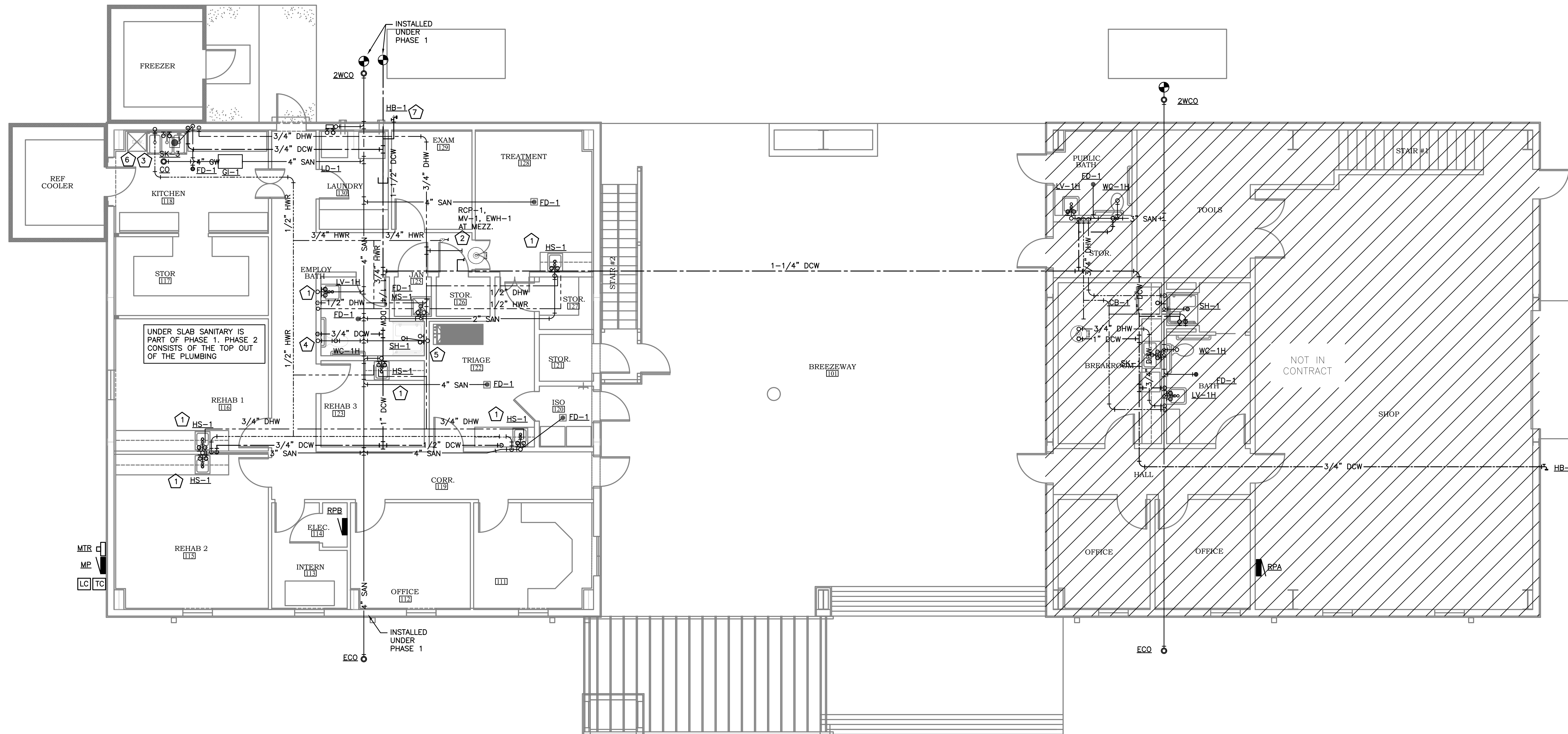
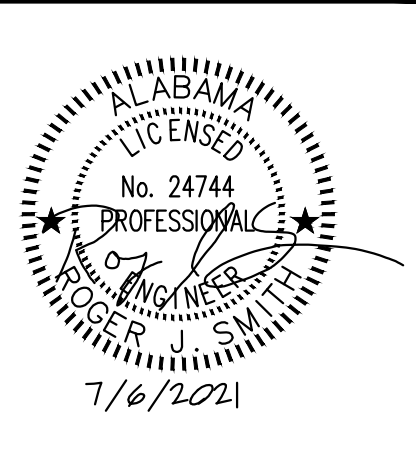
AFF	ABOVE FINISHED FLOOR
AUX	AUXILIARY
CEIL	CEILING
CIRC	CIRCULATING
CO	CLEANOUT
CW	COLD WATER
DCW	DOMESTIC COLD WATER
DHC	DOMESTIC HOT CIRCULATED
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DST	DEEP SEAL TRAP
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIXT	FIXTURE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RETURN
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MTR	METER
NIC	NOT IN CONTRACT
PENE	PENETRATION
RM	ROOM
SAN	SANITARY
SURF	SURFACE
SYS	SYSTEM
T & P	TEMPERATURE & PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER
TYP	TYPICAL
VTR	VENT TO ROOF
WCO	WALL CLEANOUT
WET	WET PIPING
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
W/	WITH
YCO	YARD CLEANOUT

**GENERAL PLUMBING NOTES:**

- COMPLY WITH 2018 INTERNATIONAL MECHANICAL & PLUMBING CODE, NFPA, STATE AND LOCAL CODES.
- PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- 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.
- PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES, AND DIMENSIONS.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- ALL COMPONENTS USED IN PLENUM SPACES MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY FIRESTOPPED.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:  
 A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER OR PEX.  
 B. LINES ABOVE GRADE SHALL BE TYPE "L" HARD COPPER.  
 C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.  
 D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.  
 E. EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL FLOOR DRAINS SHALL BE EQUIPPED WITH TRAP PRIMER. LOCATE TRAP PRIMER EQUIPMENT CONCEALED IN ACCESSIBLE LOCATION.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 180 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, 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 MECHANICAL CONTRACTOR'S EXPENSE.

**FIXTURE CONNECTION NOTES:**

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- PROVIDE PVC (SCH 80) P-TRAPS FOR UNDER FLOOR DRAINS.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MAXIMUM OF 0.5 GPM AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.



PHASE 2 DRAWINGS FOR  
ORANGE BEACH  
**WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA

**PLUMBING PLAN**  
SCALE: 3/16" = 1'-0"

**KEY NOTES (THIS DETAIL ONLY)**

- 1 1/2" HW/CW/HWR DOWN TO LV-1H OR HS-1
- 2 WATER HEATER, MIXING VALVE, AND DHW RECIRCULATION PUMP SHOWN FOR CLARITY BUT LOCATED ON MEZZANINE LEVEL ABOVE.
- 3 3/4" HW/CW, 1/2" HWR DOWN TO SK-3
- 4 1/2" CW DOWN TO WC-1H
- 5 3/4" HW/CW DOWN TO SH-1
- 6 1/2" HW BRANCH CONNECTION TO DISHWASHER. EXTEND DRAIN FROM DISHWASHER TO FS-1 FOR INDIRECT DISCHARGE.
- 7 3/4" DCW DOWN TO HOSE BIBB.

JOB NO.:  
DRAWN: RJS  
CHECKED: RJS  
DATE: 2021.07.06  
REVISION:

SCALE: AS SHOWN

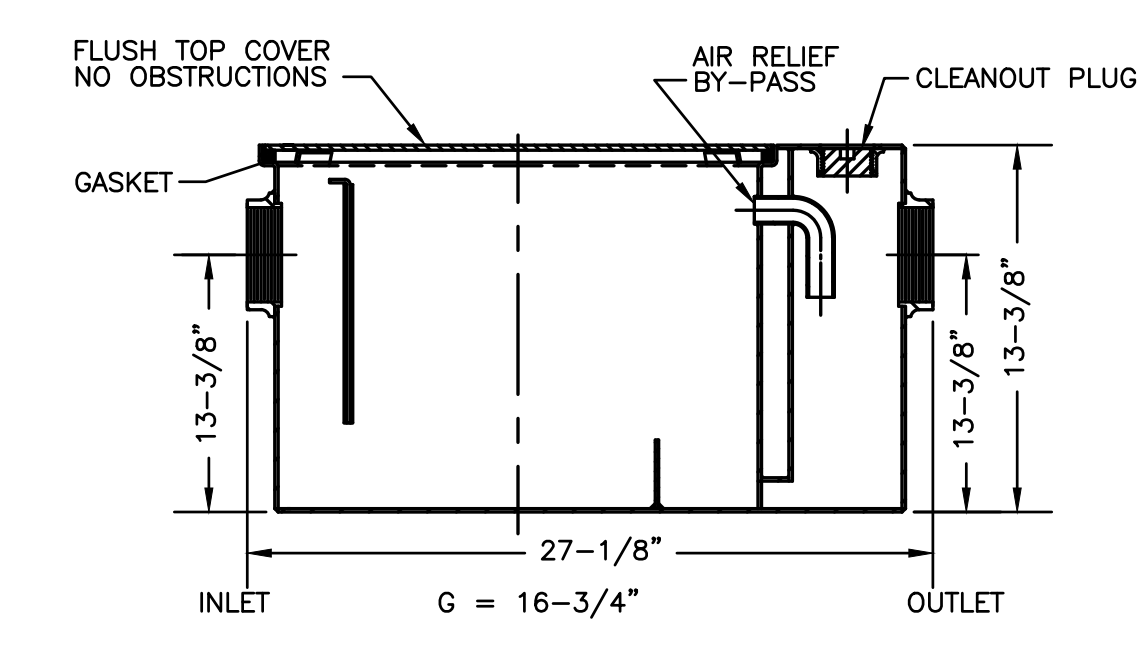
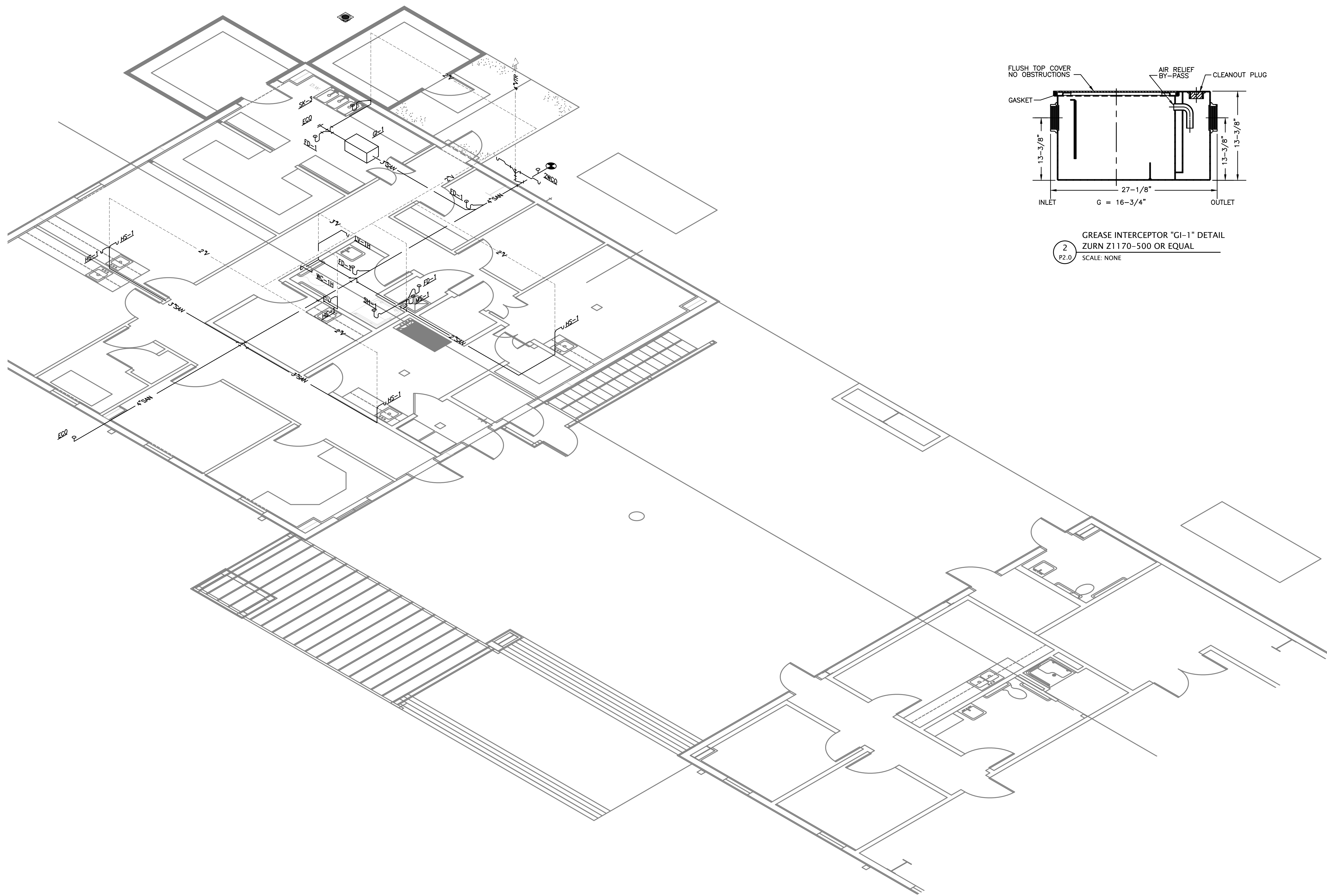
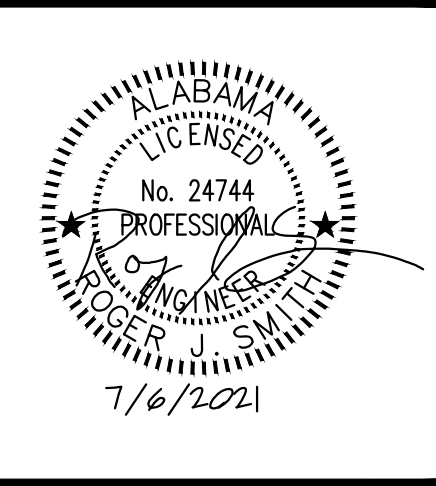
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**P1.1**

PLUMBING PLAN  
BASE BID

PHASE 2





GREASE INTERCEPTOR "GI-1" DETAIL  
ZURN Z1170-500 OR EQUAL  
SCALE: NONE

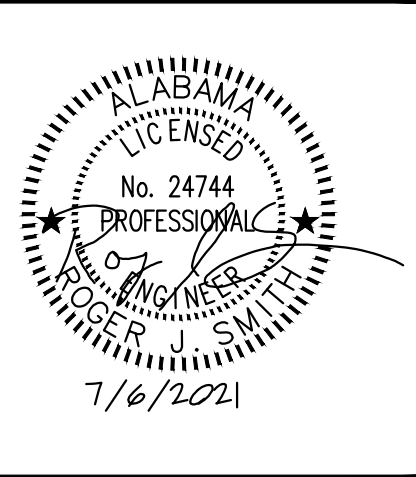
1 SANITARY WASTE RISER  
SCALE: NONE

PHASE 2 DRAWINGS FOR  
ORANGE BEACH  
WILDLIFE CENTER  
ORANGE BEACH  
ALABAMA

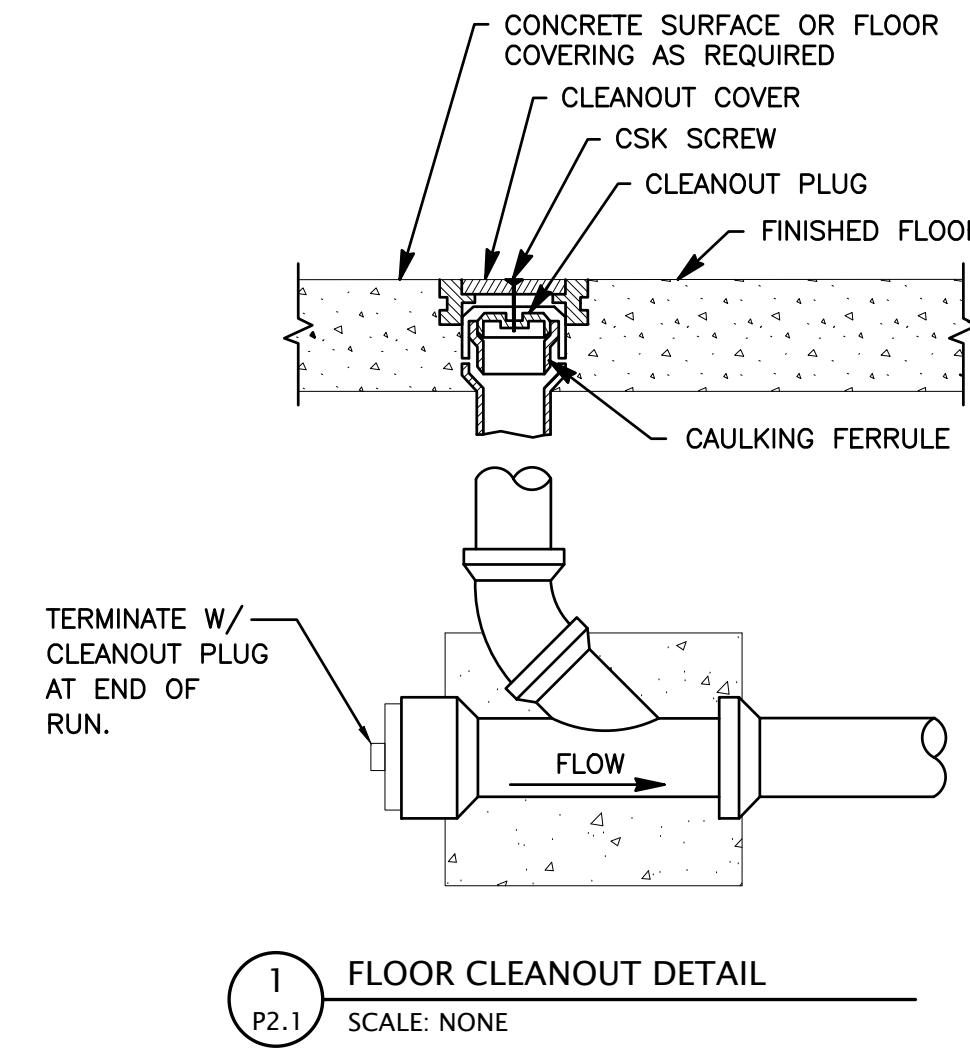
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REVISION:

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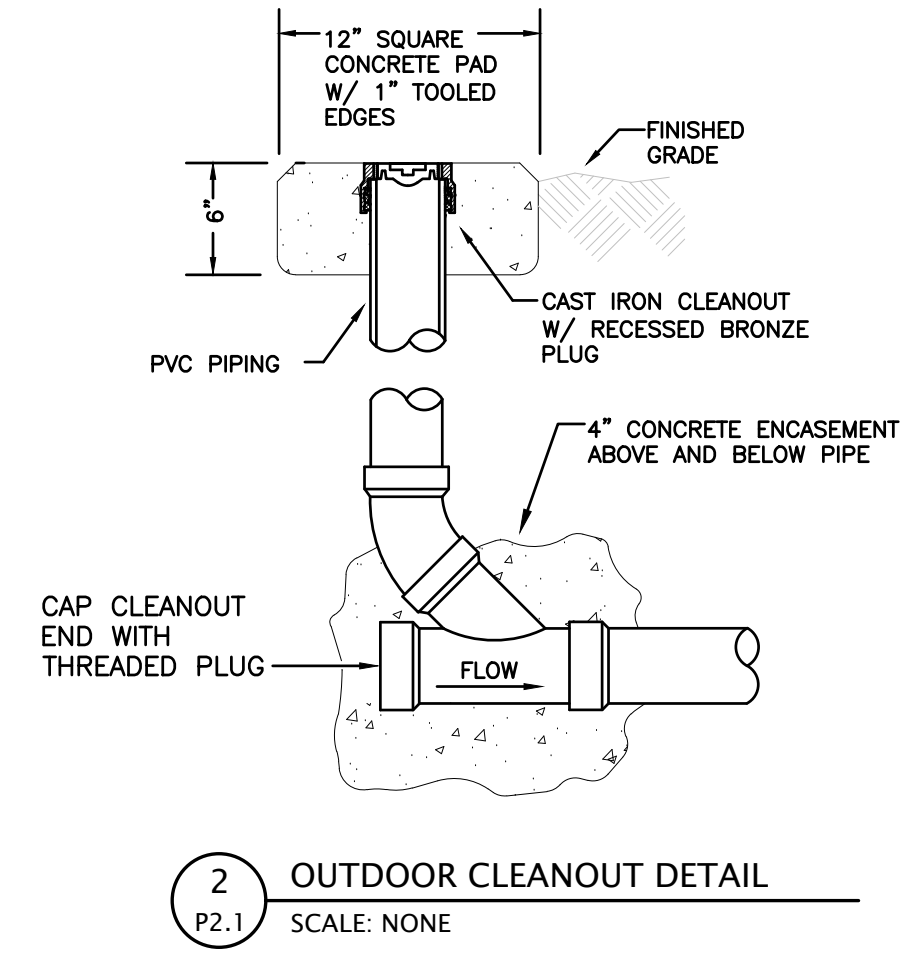
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**P2.0**  
SANITARY WASTE RISERS



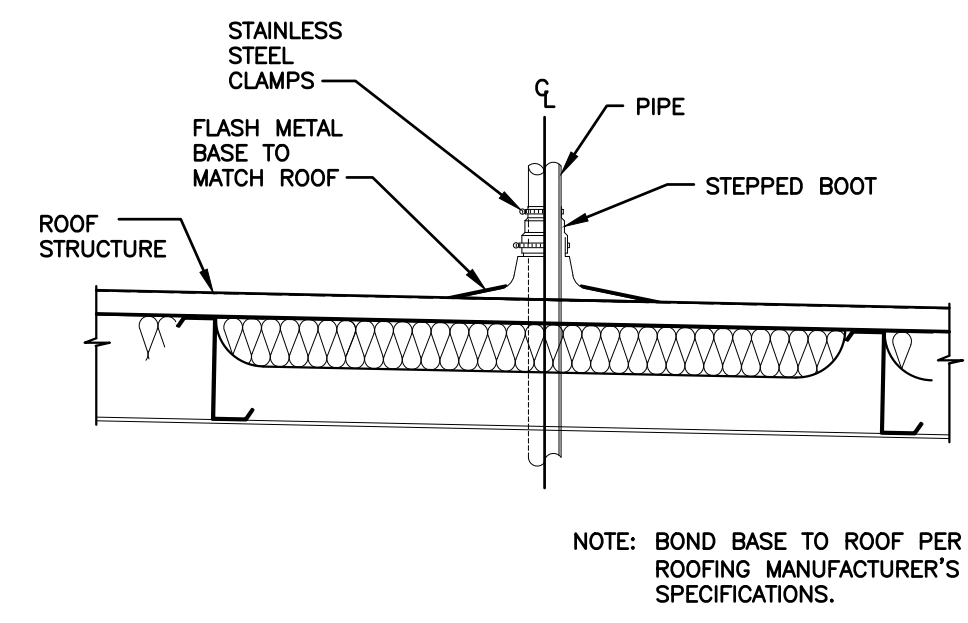
PHASE 2 DRAWINGS FOR  
ORANGE BEACH  
**WILDLIFE CENTER**  
ORANGE BEACH  
ALABAMA



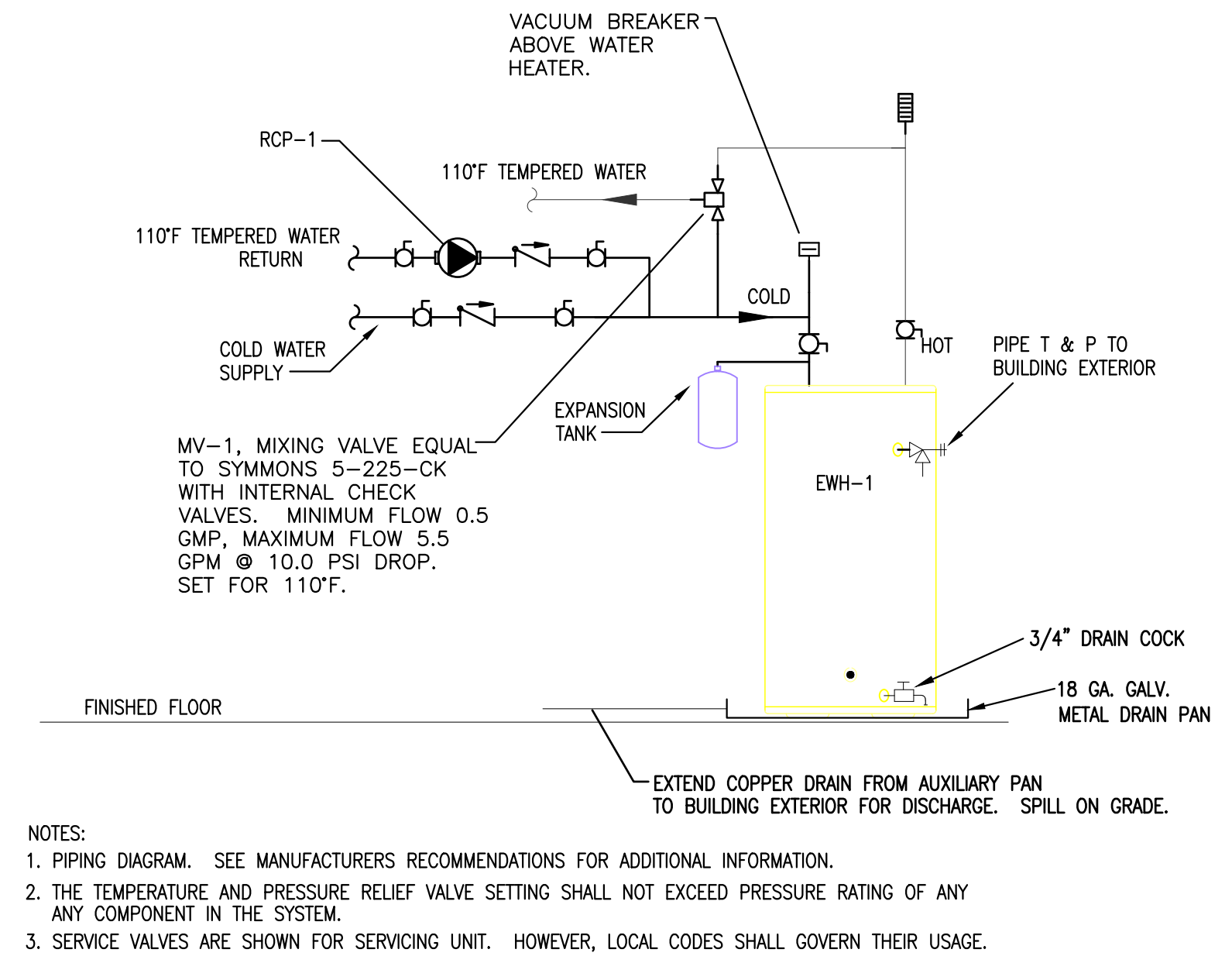
**1 FLOOR CLEANOUT DETAIL**  
SCALE: NONE



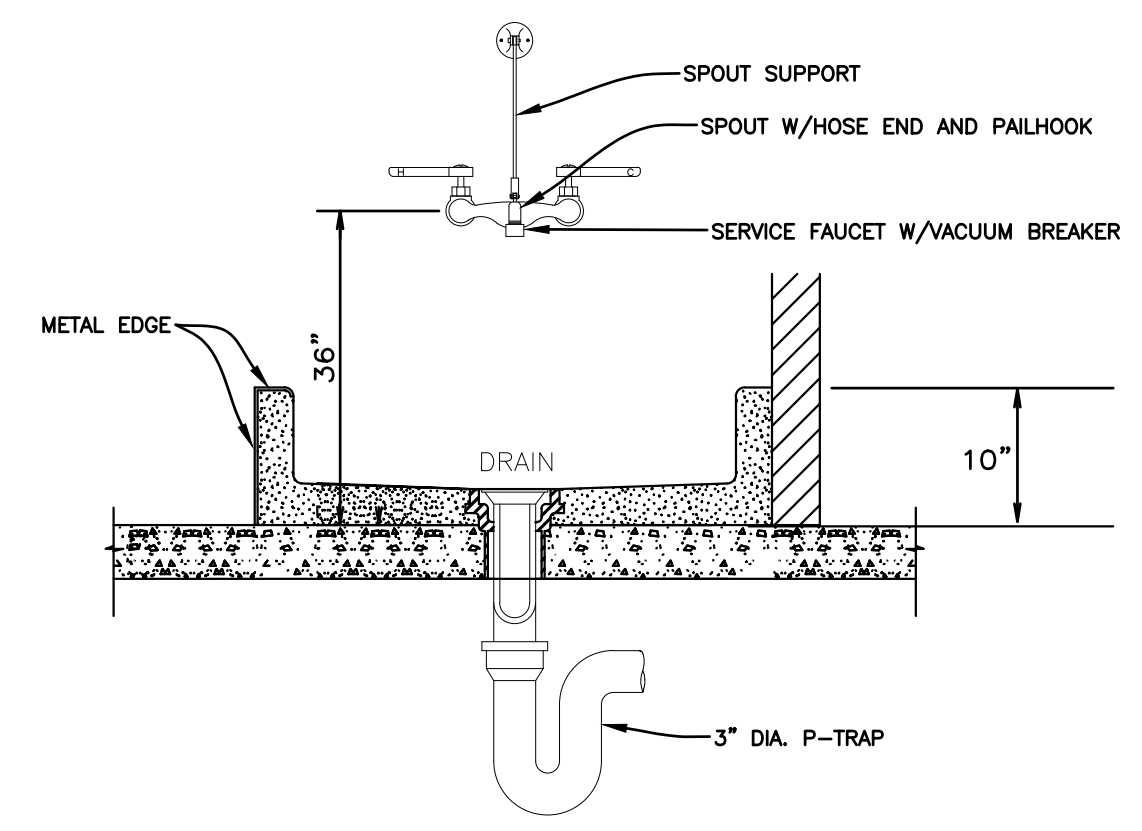
**2 OUTDOOR CLEANOUT DETAIL**  
SCALE: NONE



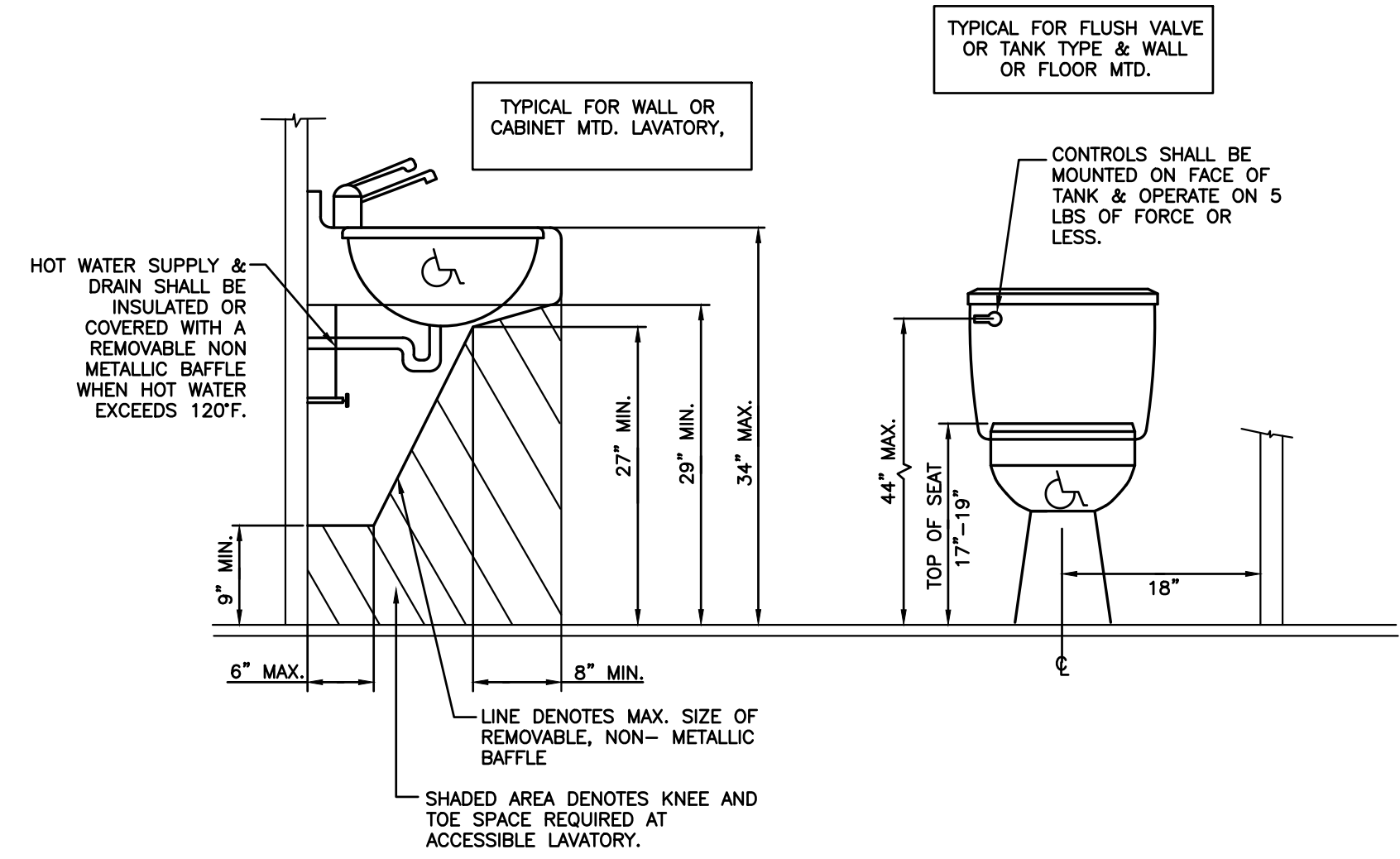
**3 VENT THRU ROOF DETAIL**  
SCALE: NONE



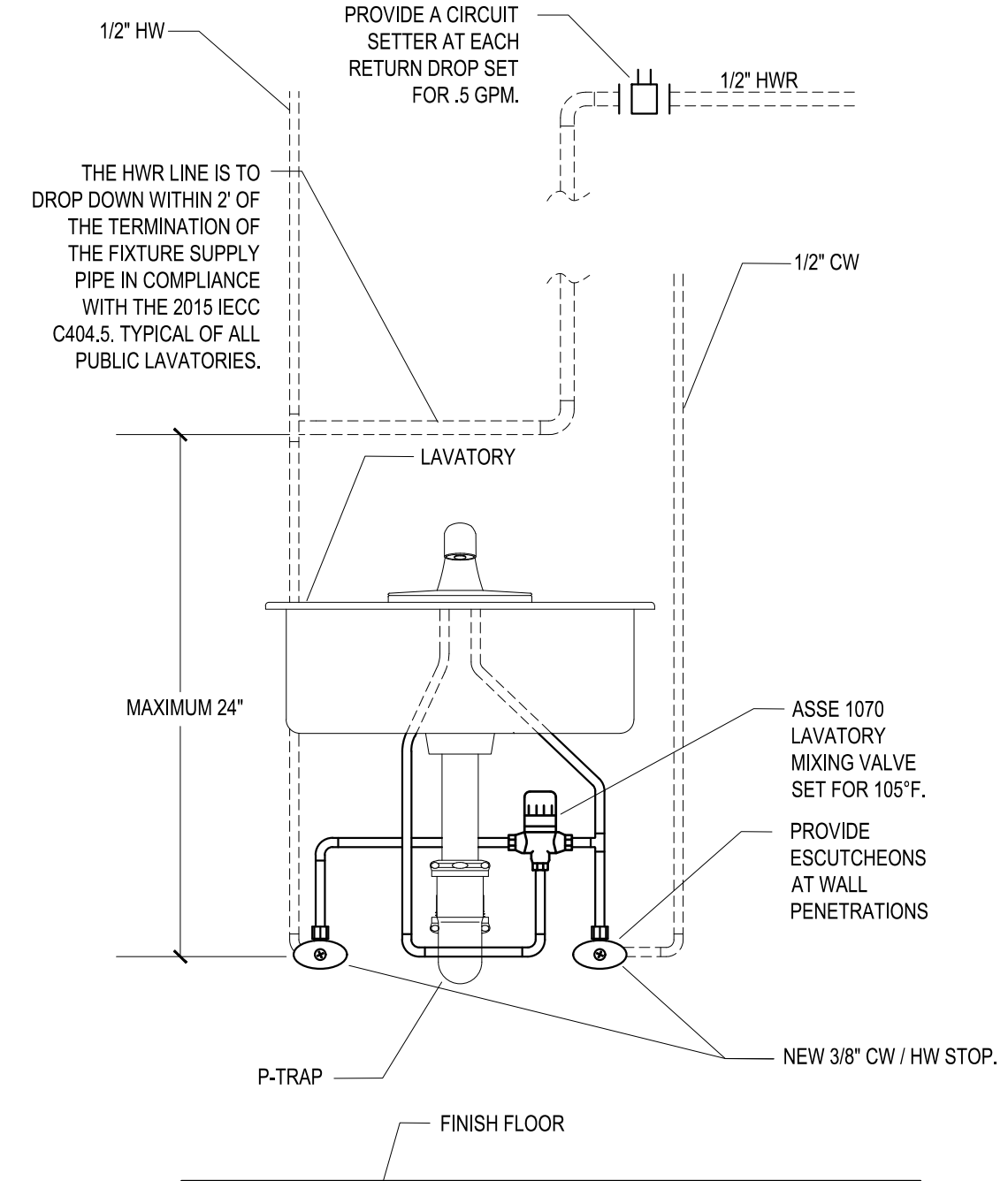
**4 DOMESTIC HOT WATER WITH RECIRC. DETAIL**  
SCALE: N.T.S.



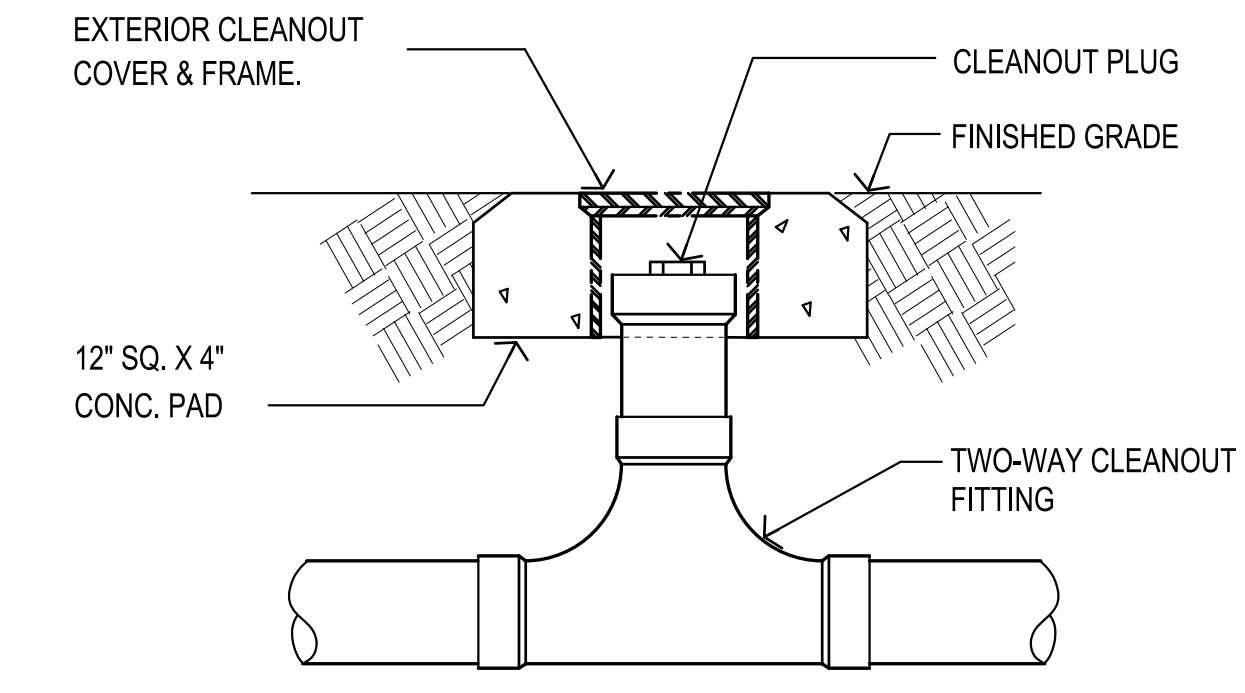
**5 MOP SINK DETAIL**  
SCALE: NONE



**6 ADA PLUMBING FIXTURE INSTALLATION DETAIL**  
SCALE: NONE



**7 LAVATORY MIXING VALVE DETAIL**  
SCALE: NONE



**8 TWO-WAY CLEANOUT DETAIL**  
SCALE: NONE

JOB NO.:	
DRAWN:	RJS
CHECKED:	RJS
DATE:	2021.07.06
REVISION:	

SCALE: AS SHOWN

SHEET NO.:

**P2.1**

PLUMBING  
DETAILS