ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

OWNER BEVILL STATE COMMUNITY COLLEGE
1411 INDIANA AVENUE
JASPER, ALABAMA 35501

ARCHITECT LATHAN ASSOCIATES ARCHITECTS, P.C.
300 CHASE PARK SOUTH
SUITE 200
HOOVER, ALABAMA 35244
EMAIL: RFI@LATHANASSOCIATES.COM

CIVIL TTL, INC.
10 INVERNESS CENTER PKWY
SUITE 350
BIRMINGHAM, ALABAMA 35242

STRUCTURAL STRUCTURAL DESIGN GROUP
300 CHASE PARK SOUTH
SUITE 125
HOOVER, ALABAMA 35244

MECHANICAL / PLUMBING / ELECTRICAL DEWBERRY ENGINEERS, INC.
RIVERCHASE OFFICE PLAZA 32
SUITE 205
HOOVER, ALABAMA 35244

DRAWING INDEX (SET - 85 TOTAL SHEETS)

GENERAL (2 SHEETS)

T1 - TITLE AND INDEX
LS1.1 - LIFE SAFETY PLAN

CIVIL DRAWINGS (10 SHEETS)

C0.1 - CIVIL NOTES
C1.0 - SITE LAYOUT & UTILITY PLAN
C1.1 - SITE LAYOUT & UTILITY PLAN
C2.0 - GRADING & DRAINAGE PLAN
C2.1 - GRADING & DRAINAGE PLAN
C3.0 - EROSION CONTROL PLAN
C3.1 - EROSION CONTROL PLAN
C3.2 - EROSION CONTROL DETAILS
C4.0 - CIVIL DETAILS
C4.1 - CIVIL DETAILS

ARCHITECTURAL DRAWINGS (24 SHEETS)

A1.0 - ARCHITECTURAL SITE PLAN
A1.1 - FLOOR PLAN - CONCRETE SLAB INFILL
A2.0 - FLOOR PLAN - AREA A
A2.1 - FLOOR PLAN - AREA B
A2.2 - ROOF, CANOPY, & AWNING PLAN
A2.3 - ROOF AND BUILDING DETAILS
A2.4 - DOOR AND WINDOW SCHEDULES
A3.0 - BUILDING ELEVATIONS
A3.0.1 - EXISTING BUILDING ELEVATIONS
A3.0.2 - ELEVATION - LIGHTING & ENLARGED DETAILS
A3.1 - BUILDING SECTIONS
A3.2 - WALL SECTIONS
A3.3 - WALL SECTIONS
A3.4 - WALL SECTIONS
A5.1 - ENLARGED TOILET PLANS, LEGEND, INTERIOR ELEVATIONS AND DETAILS
A6.1 - INTERIOR ELEVATIONS
A6.2 - DETAILS
A7.1 - REFLECTED CEILING PLAN, LEGEND, AND DETAILS - AREA A
A7.2 - REFLECTED CEILING PLAN, LEGEND, AND DETAILS - AREA B
A8.1 - FINISH FLOOR PLAN AND LEGEND - AREA A
A8.2 - FINISH FLOOR PLAN, LEGEND AND DETAILS - AREA B
A8.3 - FINISH SCHEDULE AND LEGEND
A9.1 - ROOM SIGNAGE PLAN, LEGEND, AND DETAILS - AREA A
A9.2 - ROOM SIGNAGE PLAN, LEGEND, AND DETAILS - AREA B

STRUCTURAL DRAWINGS (7 SHEETS)

S1.0 - GENERAL NOTES
S1.1 - GENERAL NOTES CONTINUED
S1.2 - TYPICAL DETAILS
S1.3 - TYPICAL DETAILS
S2.0 - FOUNDATION PLAN
S2.1 - ROOF FRAMING PLAN
S3.1 - SECTIONS AND DETAILS

PLUMBING DRAWINGS (8 SHEETS)

P0.1 - PLUMBING SCHEDULES AND NOTES
P0.2 - NON-PRESSURE - RISERS
P0.3 - PRESSURE - RISERS
P0.4 - PLUMBING - NATURAL GAS RISER
P1.1 - NON-PRESSURE PIPING - FLOOR PLAN AREA A
P1.2 - NON-PRESSURE PIPING - FLOOR PLAN AREA B
P1.3 - PRESSURE PIPING- FLOOR PLAN AREA A
P1.4 - PRESSURE PIPING- FLOOR PLAN AREA B

FIRE PROTECTION DRAWINGS (4 SHEETS)

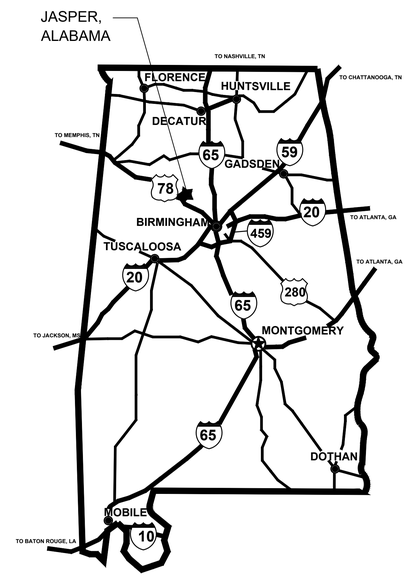
FP0.1 - FIRE PROTECTION SCHEDULES AND DETAILS
FP0.2 - FIRE PROTECTION - ZONE PLAN
FP1.0 - FIRE PROTECTION - FLOOR PLAN AREA A
FP1.1 - FIRE PROTECTION - FLOOR PLAN AREA B

MECHANICAL DRAWINGS (11 SHEETS)

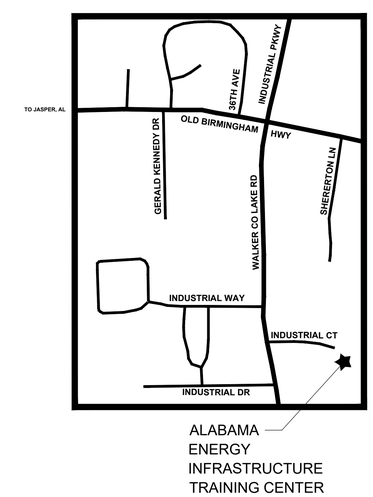
M0.1 - MECHANICAL LEGENDS
M0.2 - MECHANICAL SCHEDULES
M0.3 - MECHANICAL DETAILS
M0.4 - MECHANICAL CONTROLS
M0.5 - MECHANICAL CALCS
M1.0 - MECHANICAL - FLOOR PLAN- AREA "A"
M1.1 - MECHANICAL - FLOOR PLAN- AREA "B"
M1.2 - MECHANICAL - FLOOR PLAN- UPPER DUCTWORK
M2.0 - MECHANICAL - PIPING PLAN- AREA "A"
M2.1 - MECHANICAL - PIPING PLAN- AREA "B"
M2.2 - MECHANICAL - LARGE SCALE FLOOR PLANS

ELECTRICAL DRAWINGS (19 SHEETS)

E0.1 - ELECTRICAL LEGEND AND NOTES
E0.2 - ELECTRICAL DETAILS
E0.3 - ELECTRICAL DETAILS
E0.4 - ELECTRICAL DETAILS
E0.5 - ELECTRICAL SINGLE LINE DIAGRAM
E0.6 - ELECTRICAL - PANEL SCHEDULES
E0.7 - ELECTRICAL - PANEL SCHEDULES
E0.8 - ELECTRICAL - PANEL SCHEDULES
E0.9 - ELECTRICAL PANEL AND EQUIPMENT SCHEDULES
E1.0 - ELECTRICAL SITE PLAN
E2.0 - ELECTRICAL - LIGHTING FLOOR PLAN- AREA A
E2.1 - ELECTRICAL - LIGHTING FLOOR PLAN- AREA B
E2.2 - ELECTRICAL LUMINAIRE SCHEDULE
E3.0 - ELECTRICAL - POWER & VOICE/DATA FLOOR PLAN- AREA A
E3.1 - ELECTRICAL - POWER & VOICE/DATA FLOOR PLAN AREA B
E3.2 - ELECTRICAL- POWER & VOICE/ DATA CABLE TRAY PLAN
E4.0 - ELECTRICAL - AUXILIARY FLOOR PLAN- AREA A
E4.1 - ELECTRICAL - AUXILIARY FLOOR PLAN- AREA B
E5.0 - ELECTRICAL - POWER & VOICE/ DATA FLOOR PLAN- ENLARGED PLANS



AREA MAP
STATE OF ALABAMA



VICINITY MAP
JASPER, ALABAMA

LATHAN McKEE ARCHITECTS

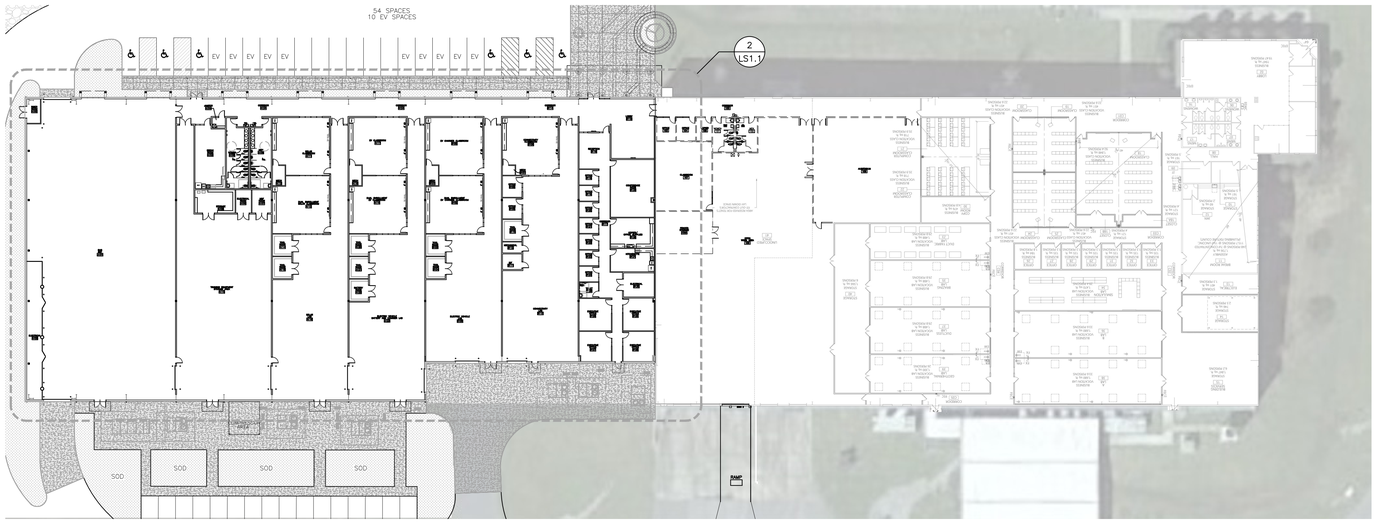
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: TITLE AND INDEX

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
T1
1 OF 2



1 OVERALL LIFE SAFETY PLAN

SCALE: 1/32" = 1'-0"

2 LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

2021 IBC - EXISTING BUILDING DATA	
EXISTING OCCUPANCY CLASSIFICATION:	GROUP B (S1)
EXISTING TYPE OF CONSTRUCTION :	TYPE IIB (S1)
EXISTING NUMBER OF STORIES:	1
EXISTING BUILDING AREA:	52,251 S.F.

2021 IBC NEW ADDITION BUILDING DATA		
OCCUPANCY CLASSIFICATION:	GROUP B (S1)	
TYPE OF CONSTRUCTION:	TYPE IIB (S1)	
BUILDING AREA:	49,583 S.F.	
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 4	ACTUAL STORIES: 1
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: S1	92,000 S.F.
TABLE 506.3.3 FRONTAGE INCREASE FACTOR: .75	ALLOWABLE INCREASE: 23,000(.75) = 17,250	ALLOWABLE AREA: 109,250 S.F.
	AREA OF NEW AND EXISTING: 101,834 S.F.	
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	IIB
	STRUCTURAL FRAME:	0
	BEARING WALLS:	
	EXTERIOR:	0
	INTERIOR:	0
	NONBEARING WALLS:	
	EXTERIOR:	SEE 705.5
	INTERIOR:	0
	FLOOR CONSTRUCTION:	0
	ROOF CONSTRUCTION:	0
TABLE 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS:	OCCUPANCY:	GROUP B
	SEPARATION DISTANCE:	< 5' : 1
		> 5'< 10' : 1
		> 10'< 30' : 0
		> 30' : 0
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP B SPRINKLERED	0

WALL TYPE LEGEND

1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1 HR WALL
2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	2 HR WALL
4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	4 HR WALL

LIFE SAFETY NOTES

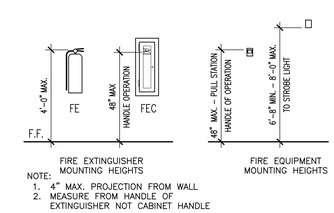
FEC — FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)	
FE — FIRE EXTINGUISHER	ACCESSIBLE
DEF — DEFIBRILLATOR	EXIT — EXIT; (320) — EXIT CAPACITY
EXIT SIGN DIRECTION	
EXTEND AND KEY ALL RATED WALLS TO SHAFT WALL SYSTEM, AND/OR BOTTOM OF ROOF ASSEMBLY	
STENCIL LABEL ALL RATED WALLS & DRAFT STOPS ABOVE CEILING EACH SIDE @ 20'-0" O.C. MAX.	
ALL RATED DOORS AND FRAMES TO BE LABELED WITH EMBOSSED LABELS INDICATING RATING IN MINUTES	
HE - HORIZONTAL EXIT	XHE - EXISTING HORIZONTAL EXIT
FB - FIRE BARRIER	XFB - EXISTING FIRE BARRIER
FP - FIRE PARTITION	XFP - EXISTING FIRE PARTITION
FW - FIRE WALL	XFW - EXISTING FIRE WALL
EGRESS TRAVEL DISTANCE	200' — DISTANCE; START; PATH; DIRECTION

FUNCTION — S 300G — LOAD FACTOR: N = NET, G = GROSS
OCCUPANT LOAD — 35

CR - CLASSROOM
O - OFFICE
S - STORAGE
ID - INDUSTRIAL
A - ASSEMBLY

CHAPTER 29 - PLUMBING SYSTEMS

OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
F1	255.9	1/100	1.28	1/100	1.28	1/100	1.28	1/100	1.28	1/400	.64	1
B	32.56	1/25 FIRST 50: 1/50 REMAINDER EXCEEDING 50.	.65	1/25 FIRST 50: 1/50 REMAINDER EXCEEDING 50.	.65	1/40 FIRST 80: 1/80 EXCEED 80.	.41	1/40 FIRST 80: 1/80 EXCEED 80.	.41	1/100	.33	
E	298.04	1/50	2.98	1/50	2.98	1/50	2.98	1/50	2.98	1/100	2.98	
S1,S2	26.05	1/100	.13	1/100	.13	1/100	.13	1/100	.13	1/1000	.03	
REQUIRED TOTALS			5.04		5.04		4.8		4.8		3.98	1
PROVIDED TOTALS			6		7		5		6		4	1



FIRE EXTINGUISHER MOUNTING HEIGHTS

FIRE EQUIPMENT MOUNTING HEIGHTS

NOTE:
1. 4" MAX. PROJECTION FROM WALL
2. MEASURE FROM HANDLE OF EXTINGUISHER NOT CABINET HANDLE

3 MOUNTING HEIGHTS

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: LIFE SAFETY PLANS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
LS1.1
2 OF 2

TTL
Job No.: 241101197
10 Inverness Center Parkway, Suite 350
Birmingham, AL 35242
205.539.0384 | www.ttlusa.com

LATHAN McKEE ARCHITECTS

EXISTING UTILITY NOTES

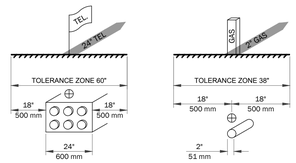
APWA UNIFORM COLOR CODE
FOR MARKING UNDERGROUND UTILITY LINES

WHITE - Proposed excavation
PINK - Temporary survey markings
RED - Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
BLUE - Potable Water
PURPLE - Reclaimed Water, Irrigation and Slurry Lines
GREEN - Sewers and Drain Lines

TO HAVE UNDERGROUND UTILITY LINES LOCATED DIAL:
- 811 (INSIDE ALABAMA)
- (800) 292-8525 (INSIDE AND OUTSIDE OF ALABAMA)

WWW.AL811.COM

Know what's below. Call before you dig. ALABAMA 811



ANY EXCAVATION WITHIN THE TOLERANCE ZONE SHOULD BE PERFORMED WITH NON-POWERED HAND TOOLS OR NON-INVASIVE METHODS UNTIL THE MARKED FACILITY IS EXPOSED. THE WIDTH OF THE TOLERANCE ZONE MAY BE SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY.

GENERAL PROJECT NOTES:

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, LOCAL WATER AUTHORITIES, AND UTILITY PROVIDERS, ETC. FOR UTILITY LOCATES AND PAY ANY REQUIRED FEES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
2. ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES,CAPPED PIPES, CAPPED MONUMENTS, ETC), DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION, ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
4. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES. STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
7. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
8. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.
9. ALL TEMPORARY STONE FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONE SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS.
10. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS AFTER THE COMPLETED INSTALLATION OF UTILITY CROSSINGS ON ROADWAYS OPEN TO TRAFFIC. IF THE ROADWAY IS CLOSED TO LOCAL TRAFFIC THEN ALL ASPHALT CUT LOCATIONS SHALL BE PATCHED BEFORE THE ROADWAY IS REOPENED. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ALL UTILITIES AND THEN TEMPORARY ASPHALT PATCH ALL AT ONE TIME. TEMPORARY ASPHALT PATCHING MUST OCCUR PERIODICALLY PHASED AS REFERENCED ABOVE.
11. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED IN THE PLANS. ASPHALT COLD MIXES SHALL NOT BE ACCEPTED. POORLY PATCHED CROSSINGS DISPLAYING NONUNIFORM, UNSMOOTH FINISHES SHALL NOT BE ACCEPTED AND SHALL BE REMOVED AT ONCE. THE REPATCH OF THE AREA SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE AT ALL TIMES.
13. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OWNER, PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN THIS AREA.

DEMOLITION NOTES:

1. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.
2. ALL AREAS DISTURBED BY THE CONTRACTOR; INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS, LAYDOWN AREAS, AREAS DISTURBED BY MOVING EQUIPMENT SHALL BE IMPROVED PER THE REQUIREMENTS OF THE PLANS, NO EXCEPTIONS.
3. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS) REQUIRED TO BE REMOVED/RESET FOR INSTALLATION OF SITE, UTILITY, BUILDING, ETC. IMPROVEMENTS SHALL BE DONE SO AT NO ADDITIONAL COST TO THE PROJECT AND IS CONSIDERED INCIDENTAL. THE PLANS HAVE BEEN NOTED WITH GENERAL AREAS THIS IS TO OCCUR IN. THE REMOVAL AND/OR REPLACEMENT LIMITS WILL BE DETERMINED IN THE FIELD.

GRADING NOTES:

1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY GRASSING AND MULCHING DURING GRADING OPERATIONS.
2. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS AS PER THE OWNER'S REPRESENTATIVES REQUIREMENTS. SEE THE GEOTECHNICAL REPORT FOR THIS INFORMATION.
3. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN. THE MAJORITY OF THE PROJECT WILL REQUIRE CLEARING AND REMOVAL OF EXISTING SIDEWALK, DRIVES, CURB AND GUTTER, CURBING, TREE STUMP REMOVAL, TOPSOIL, GRADING, ETC. AS SHOWN THROUGHOUT THE PROJECT CONSTRUCTION PLANS AND CONTRACT DOCUMENTS.
4. ALL EXISTING WATER VALVES, UTILITY VAULT TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS, ETC. NOTED ON THE DEMOLITION PLAN SHALL BE REMOVED, STOCKPILED IN A SECURE LOCATION, AND/OR RESET AS PER THE CONTRACT DOCUMENTS.
5. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED.
6. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS. ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS.
7. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT SITE. UNCLASSIFIED EXCAVATION, AND BORROW EXCAVATION, ROCK REMOVAL, ETC. TO BRING THE SITE TO FINISHED SUBGRADE (ONLY LEAVING PAVEMENTS AND TOPSOIL TO REACH FINAL FINISHED GRADE) AS SHOWN ON THE CONSTRUCTION PLANS. NO EXTRA PAYMENT WILL BE MADE FOR EXCESS MATERIAL BROUGHT ON-SITE, MATERIAL REQUIRED TO BE MOVED MULTIPLE TIMES BECAUSE OF CONSTRUCTION PHASING, OR EXCESS MATERIAL TO BE REMOVED FROM THE SITE UPON GRADING COMPLETION.
8. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN ½" IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.
9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8" LIFTS TO 98% OF THE STANDARD PROCTOR MAXIMUM (ASTM D 698) DRY DENSITY, AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT.

STORM DRAIN NOTES:

1. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING AND/OR INLET THROAT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
2. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
3. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB, ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM DRAIN STRUCTURE INSTALLATION.
4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS WITHIN THE PROJECT LIMITS AND IF AFFECTED BY CONSTRUCTION ACTIVITIES, OUTSIDE THE PROJECT LIMITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY AND ALL MATERIAL AND LABOR REQUIRED FOR TEMPORARY STORM SEWERS AND/OR PUMPS THAT MAY BE REQUIRED FOR BYPASSING. THE OWNER OR ITS REPRESENTATIVES SHALL NOT ACCEPT ANY RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY, OR ACCEPT ANY RESPONSIBILITY FROM CLAIMS OR DAMAGES RESULTING FROM THE FAILURE OF THE CONTRACTOR'S TEMPORARY STORM SEWER BYPASS FACILITIES.
5. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP. ALTHOUGH THE TOPS VARY FOR AN S-INLET, GRATE INLET, AND JUNCTION BOX, THE BOX ITSELF IS THE SAME AND REBAR REINFORCEMENT SHALL BE PLACED PER THE STANDARD DETAIL AND NOTES.
6. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
7. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
8. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT.
9. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE CONSTRUCTION PLANS.
10. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE.
11. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN AND SANITARY SEWER MAINS WHEN CROSSING WITH NO. 57 STONE MECHANICALLY CONSOLIDATED IN-PLACE TO PREVENT ANY SETTLEMENT AT THE CROSSING. THIS STONE SHALL EXTEND THE WIDTH OF THE UTILITY TRENCH TO APPROXIMATELY FOUR (4) FEET TO EITHER SIDE OF THE CROSSING.
12. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PREFABRICATED LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION NOT SHOWN ON THE PLANS TO VERIFY IF THE MAIN SHOULD BE TIED TO THE PROPOSED SYSTEMS OR BE ABANDONED AND/OR REMOVED.
2. ALL STORM DRAIN AND SANITARY SEWER SYSTEM STRUCTURES AND PIPING SHALL REMAIN ACTIVE UNTIL PROPOSED PROJECT UTILITIES ARE INSTALLED AND CAN COME INTO SERVICE. THIS APPLIES TO AREA INLETS IN YARDS AND/OR ROOF DRAINS. ANY WATER OR SEWER DAMAGE TO PRIVATE PROPERTY DUE TO FAILURE OF THE CONTRACTOR TO COORDINATE REMOVAL OF EXISTING UTILITIES AND TIE-INS TO REQUIRED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ALL CLEANUP AND ADDITIONAL WORK REQUIRED TO CORRECT THE DAMAGE.
3. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER, ETC. IF THESE ITEMS ARE BEING RETAINED. ANY ITEMS DAMAGED DURING THIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

SANITARY SEWER NOTES:

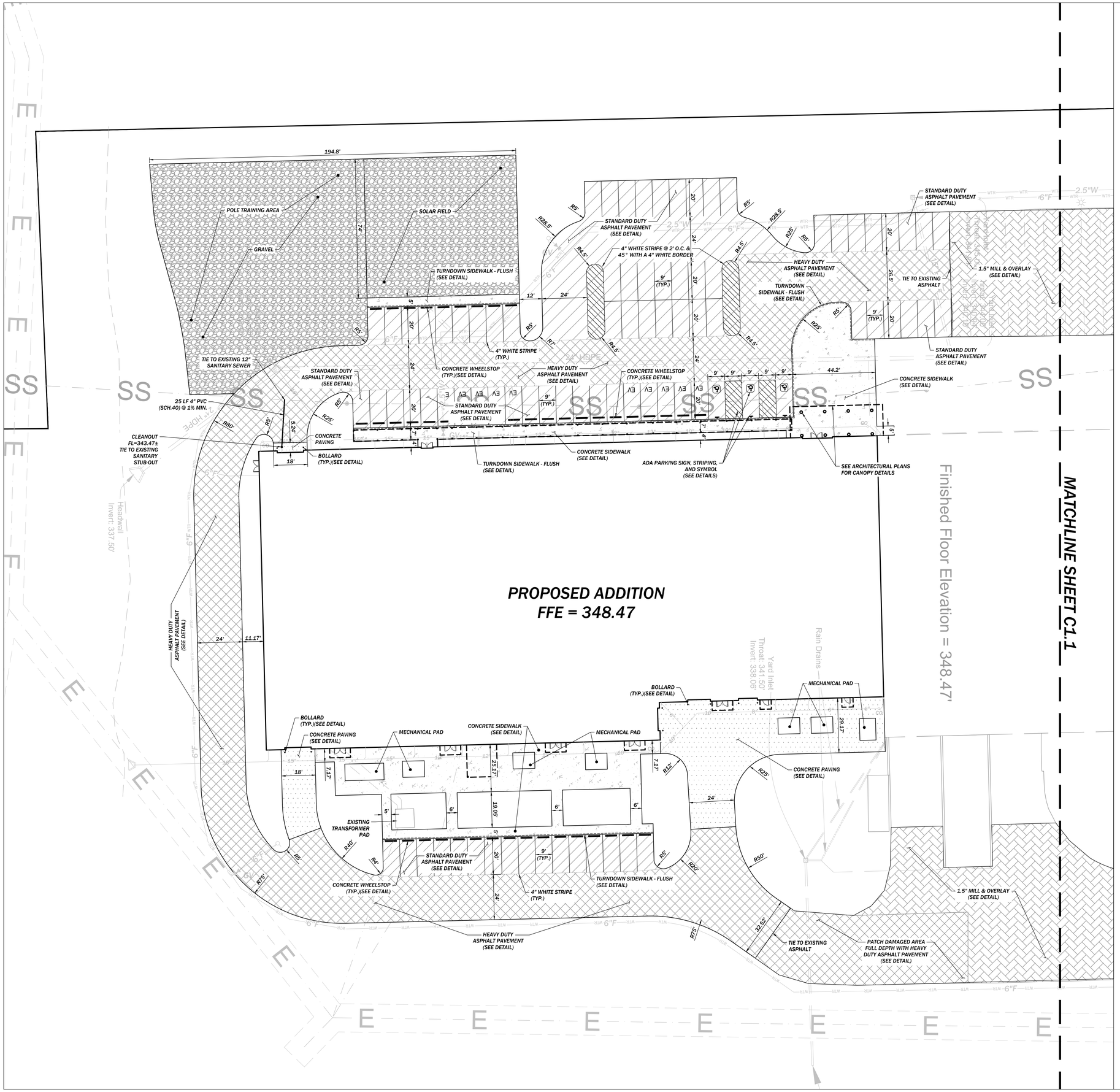
1. THE CONTRACTOR SHALL REFERENCE THE PLUMBING PLANS FOR ANY SEWER PLUMBING BENEATH THE PROPOSED BUILDING FOOTPRINT.
2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING.
3. SANITARY STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. SANITARY STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE SANITARY STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
5. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT.
6. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC.
7. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
8. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
9. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH SANITARY SEWER CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT
10. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT, OR ON WEEKENDS, ETC.
11. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED PER THE LOCAL SEWER AUTHORITY'S REQUIREMENTS. TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT.

PAVING, SIGNING AND STRIPING NOTES:

1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
2. ALL COMBINATION CURB AND GUTTER SHALL BE ONE AND A HALF (1.5) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER MAY VARY IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION.
3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. ALL PERMANENT SIGNS AND POSTS SHALL BE PER THE MUTCD.
5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B.
6. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.
9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
10. ALL TEMPORARY STRIPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. TEMPORARY STRIPING SHALL BE REQUIRED TO CLEARLY DELINEATE WHERE TRAFFIC BOTH PEDESTRIAN AND MOTOR VEHICLE KNOW HOW TO NAVIGATE THE WORK AREA. DURING PAVEMENT CURING TEMPORARY STRIPING SHALL BE APPLIED FOR TRAFFIC CONTROL.
11. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER. THE CONTRACTOR SHALL MAKE ALL PAVEMENT ARE FINISHED OUT SMOOTHLY AND CLEANLY. IRREGULARITIES, "BIRD BATHS", RANDOM CRACKING, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL NOTES:

1. REGARDLESS IF AN NPDES PERMIT IS REQUIRED OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S. PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION. NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH THE NPDES PERMIT.
2. THE DESIGN OF THE CBMPP, IF REQUIRED, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S QCP. IN THE EVENT THAT SEDIMENT BASINS ARE REQUIRED BY THE DESIGN, NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR STOCKPILING MATERIAL TO LATER FILL THE BASINS, ADDITIONAL GRADING TO FILL THE BASINS, TEMPORARY PIPING, RESEEDING AND REMULCHING, RESTORING PERMANENT DRAINAGE STRUCTURES AND GRADES TO THEIR PERMANENT REQUIREMENTS, OR ANY OTHER ITEMS OF WORK THAT ARE REQUIRED BY THE PHASING OF CONSTRUCTION OR THE CBMPP.
3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR. ANY ADDITIONAL WORK AND MATERIALS REQUIRED TO COMPLY WITH ANY VIOLATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. ALL TEMPORARY RIPRAP USED FOR EROSION CONTROL PURPOSES SHALL BE INCLUDED IN THE PRICE OF EROSION CONTROL. TEMPORARY RIPRAP BERMS SHALL BE SPREAD OUT IN AREAS WHERE PERMANENT RIPRAP IS REQUIRED AND SHALL BE SPREAD IN A MANNER TO NOT IMPEDE FLOW OF STORM DRAINS AFTER THE SITE IMPROVEMENTS ARE COMPLETE AND THE PROJECT IS STABILIZED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR TEMPORARY RIPRAP OR SPREADING IT UPON COMPLETION OF THE SITE IMPROVEMENTS. ALL TEMPORARY RIPRAP THAT IS SPREAD FOR USE AS PERMANENT RIPRAP SHALL BE PLACED ON THE STONE BEDDING AND FILTER FABRIC AS SHOWN IN THE DETAILS. COSTS FOR STONE AND FILTER FABRIC PLACED UNDERNEATH ALL TEMPORARY RIPRAP THAT IS SPREAD IN PERMANENT LOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EROSION CONTROL MANAGEMENT AND MAINTENANCE, OR IF THERE ARE NO UNIT PRICES, THE COST SHALL BE INCIDENTAL TO THE PROJECT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION & SEDIMENT CONTROL STRUCTURES UNTIL THE NPDES PERMIT IS ACCEPTED AS COMPLETE BY THE QCP & ADEM, AND IS TERMINATED BY THE CONTRACTOR.
6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE PLACED ONSITE AND STABILIZED.
7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS CLEAN OF ANY SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS, NO EXCEPTIONS.
9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION OF GRADING OPERATIONS. ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS TO BE PROVIDED WITH TEMPORARY GROUND COVER.
10. THE CONTRACTOR SHALL INSTALL WATTLES, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT AFTER SAW-CUTTING THE ASPHALT TO AVOID RUNOFF INTO OTHER ROADWAYS, DRIVES, AND AREAS PARALLEL AND ADJACENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 12".
12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. AS NECESSARY. ALL STONES FOR CONSTRUCTION ENTRANCE/EXIT , SIDEWALKS, ROADWAY/DRIVES, ETC. ARE CONSIDERED INCIDENTAL REGARDLESS THE NUMBER OF TIMES FRESH STONE IS REQUIRED FOR EROSION CONTROL MEASURES. AT THE END OF THE PROJECT, ALL STONE SHALL BE REMOVED AND NOT WASTED ON THE PROJECT SITE.
13. WHEN INSTALLING SILT FENCE OR OTHER BMP'S. THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED ON THE DRAWINGS OR THE CBMPP. WASTEFUL AND/OR POORLY PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION AFTER MOVING TO ANOTHER PHASE OF THE WORK.
14. ADEM CLOSELY MONITORS DEVELOPMENTS FOR EROSION & S



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LATHAN McKEE ARCHITECTS

PAVING LEGEND

- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVING
- GRAVEL (4" NO. 57 STONE)
- 1.5" MILL AND OVERLAY

NOTES:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

0 20 40 60
SCALE: 1"=20'

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

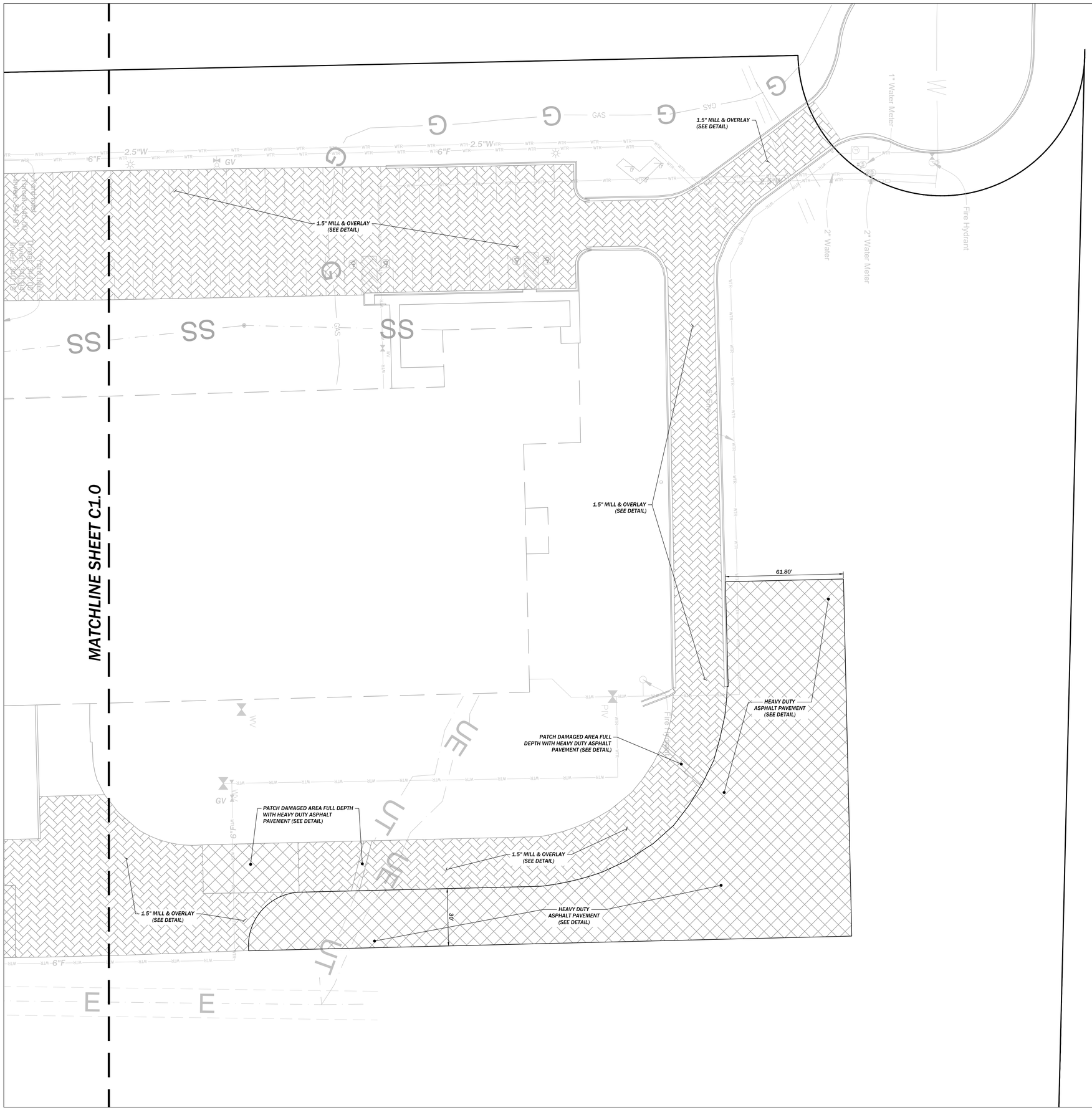
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
SITE LAYOUT & UTILITY PLAN

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER
12/19/2025

PROJ. MGR.:	CAH
DRAWN:	LBH
DATE:	DECEMBER 19, 2025
REVISIONS	

JOB NO. 24-40C
SHEET NO:
C1.0



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SCALE: 1"=20'

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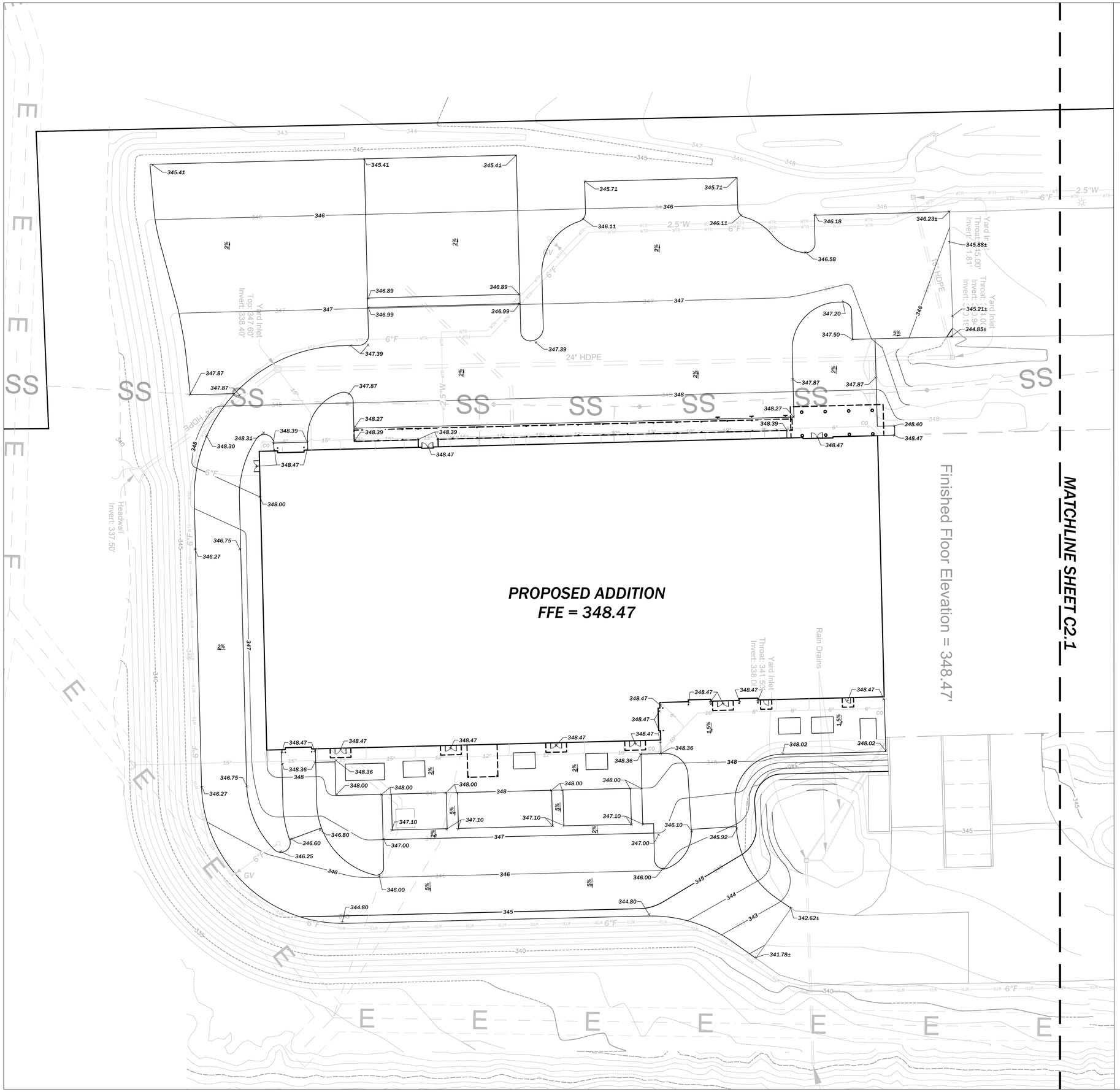
SHEET NO:

C1.1

0 1" 2"



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SHEET TITLE:
GRADING & DRAINAGE PLAN

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER
12/19/2025

PROJ. MGR.:	CAH
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JOB NO. 24-40C
SHEET NO:
C2.0

NOTES:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. EXISTING TOPOGRAPHY SHOWN IS FROM THE PREVIOUS MASS GRADING PACKAGE PLANS AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ALL PAVED AREAS SHOULD HAVE BEEN GRADED TO SUBGRADE IN THE MASS GRADING PACKAGE.

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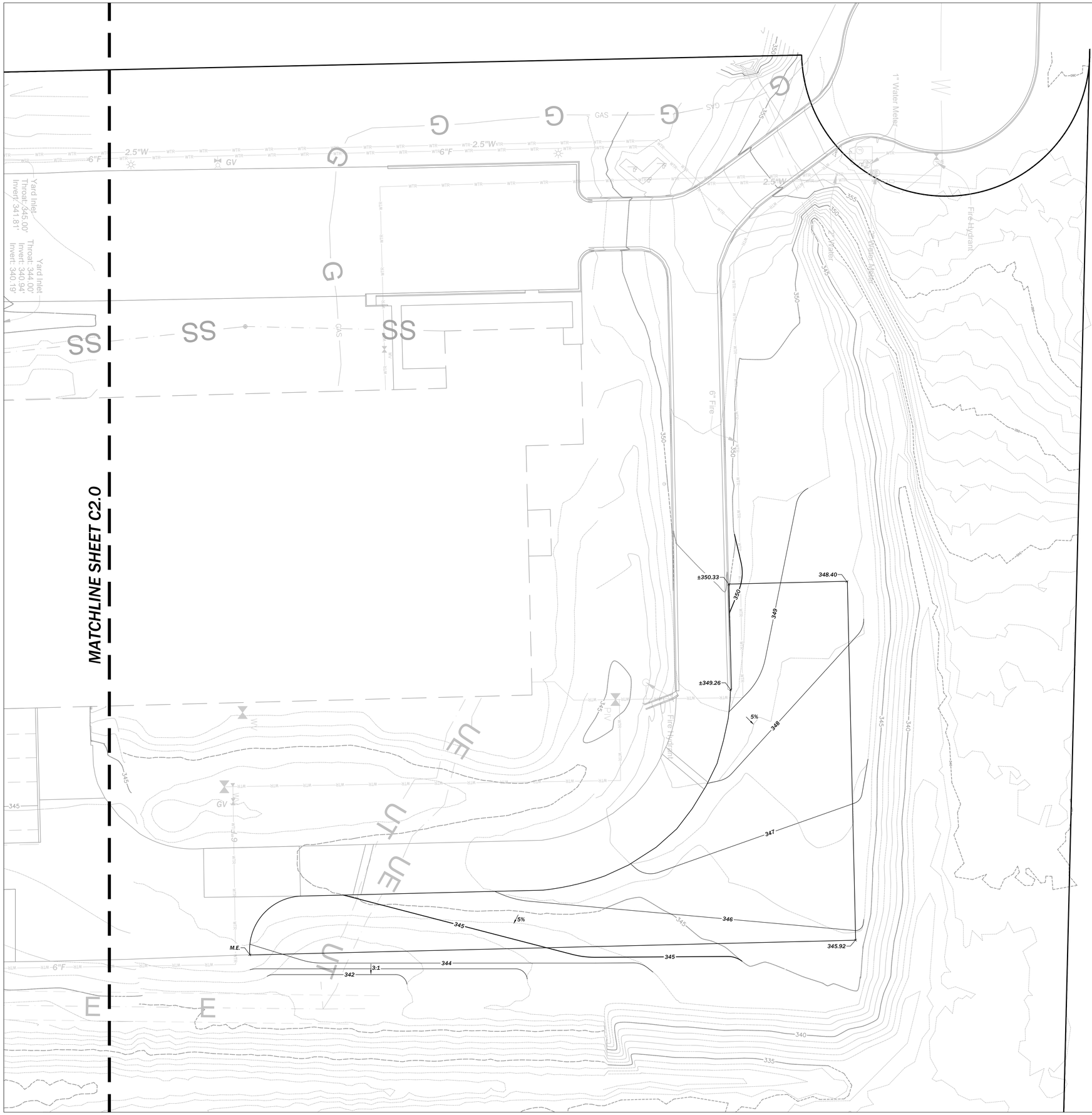
SCALE: 1"=20'



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NOTES:

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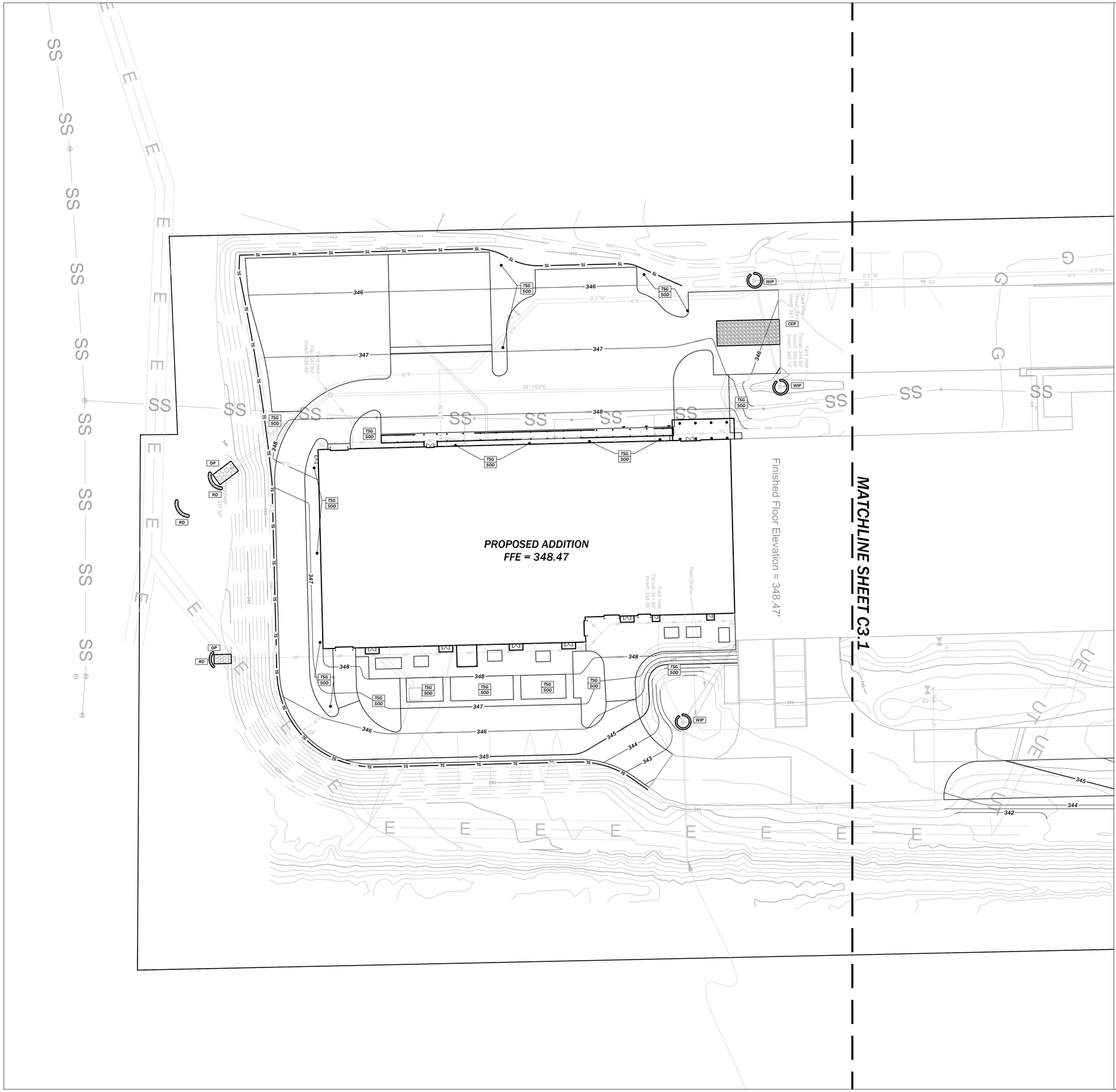
JOB NO. 24-40C
SHEET NO:
C2.1



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LATHAN McKEE ARCHITECTS

EROSION CONTROL LEGEND

- SF — SILT FENCE
- CEP — CONSTRUCTION EXIT PAD
- DV — DIVERSION CHANNEL
- WIP — WATTLE INLET PROTECTION
- CDW — WATTLE CHECK DAM
- TSG — TOPSOILING
- MU — MULCHING
- PS — PERMANENT SEEDING
- SU — SURFACE ROUGHENING
- ECB — EROSION CONTROL BLANKET
- OP — OUTLET PROTECTION
- RD — ROCK FILTER DAM
- SL — SEDIMENT LOG
- TS — TEMPORARY SEEDING

NOTES:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

0 30 60 90
SCALE: 1"=30'

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SHEET NO:

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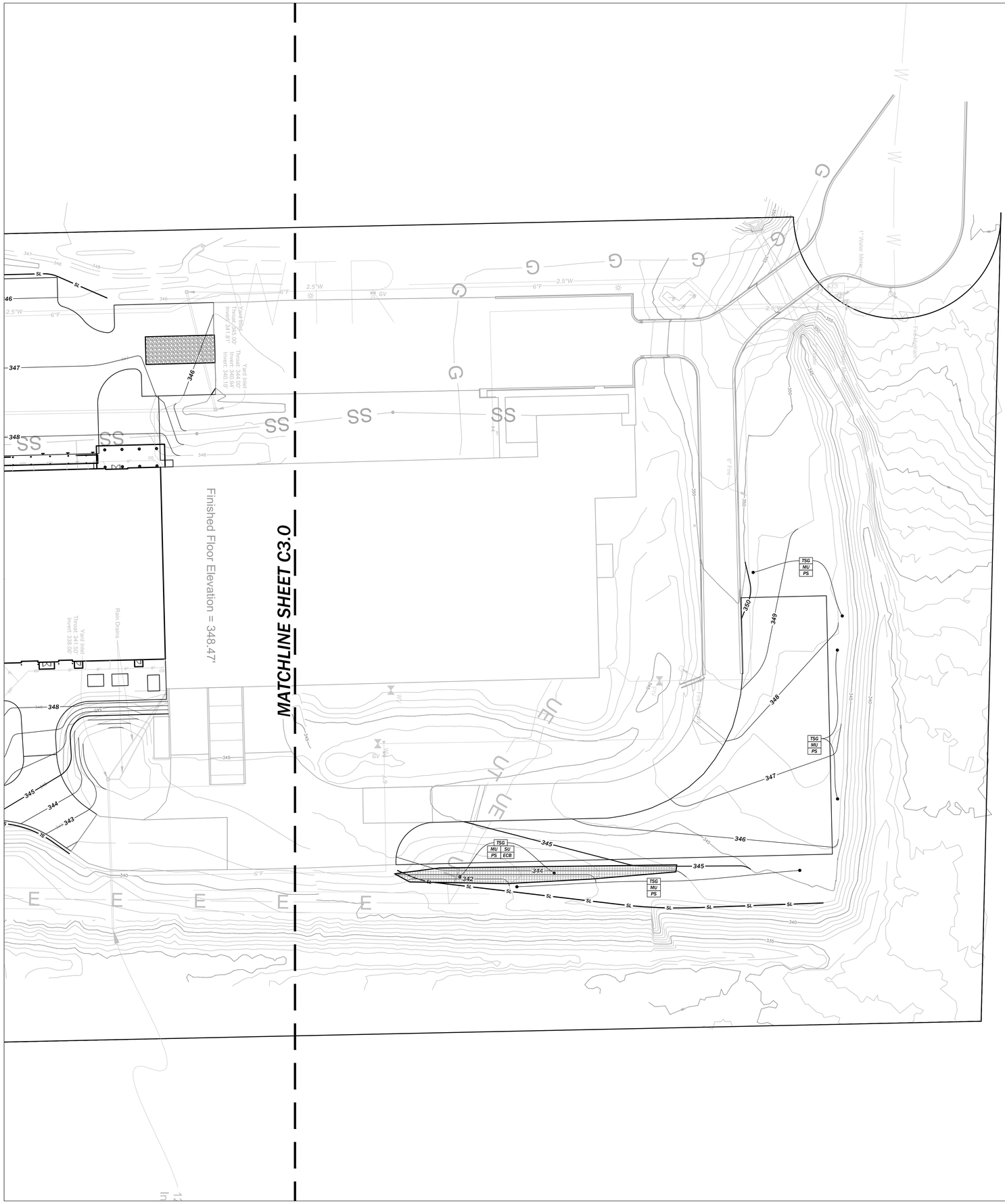

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LATHAN McKEE ARCHITECTS

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DV	DIVERSION CHANNEL
WIP	WATTLE INLET PROTECTION
CDW	WATTLE CHECK DAM
TSG	TOPSOILING
MU	MULCHING
PS	PERMANENT SEEDING
SU	SURFACE ROUGHENING
TS	TEMPORARY SEEDING
SOD	SODDING
ECB	EROSION CONTROL BLANKET
OP	OUTLET PROTECTION
RD	ROCK FILTER DAM
SL	SEDIMENT LOG

NOTES:

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SCALE: 1"=30'

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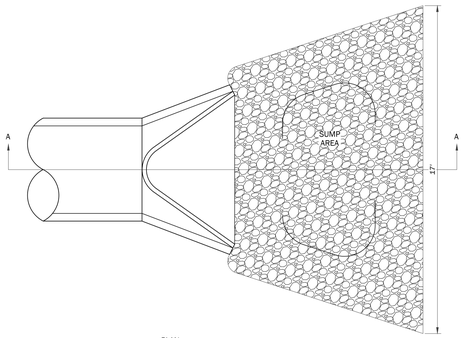
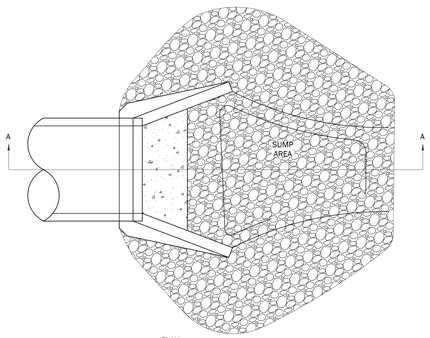
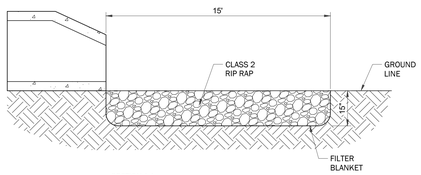


PLAN

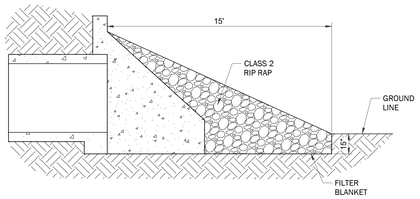


PLAN



SECTION A-A

PIPE OUTLET TO FLAT AREA - NOT WELL-DEFINED CHANNEL



SECTION A-A

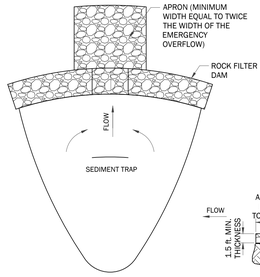
PIPE OUTLET TO WELL-DEFINED CHANNEL

NOTES:

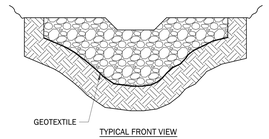
1. IN A WELL DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO THE TOP OF THE BANK.
2. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION. A NON-WOVEN GEOTEXTILE MEETING THE REQUIREMENTS OF AASHTO M288 FOR A CLASS 2 SEPARATION GEOTEXTILE.

OUTLET PROTECTION DURING CONSTRUCTION

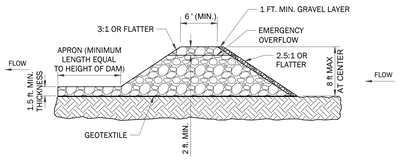
NOT TO SCALE



TYPICAL TOP SECTION



TYPICAL FRONT VIEW



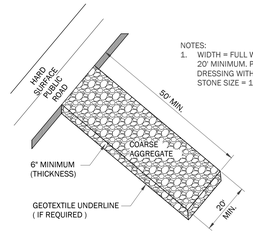
TYPICAL SECTION

NOTES:

1. SEDIMENT TRAP SHALL BE ACCESSIBLE FOR PERIODIC SEDIMENT REMOVAL.
2. DAM SHALL BE FACED WITH 1 FOOT OF SMALLER STONE ON UPSTREAM SIDE. (TYPICALLY No. 57 STONE).
3. REMOVE SEDIMENT FROM THE TRAP AREA WHEN IT ACCUMULATES ½ THE DESIGN VOLUME.
4. IF THE BASIN DOES NOT DRAIN BETWEEN STORM EVENTS DUE TO THE SMALLER STONE ON THE UPSTREAM FACE BEING CLOGGED, THE CLOGGED STONE SHOULD BE REPLACED WITH CLEAN STONE.
5. RIPRAP CLASS AS SHOWN IN PLANS.
6. NON-WOVEN GEOTEXTILE, MEETING AASHTO M288 CLASS 2, SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE, THE SOIL BASE AND THE ABUTMENTS. GEOTEXTILE MAY ALSO BE ADDED BETWEEN THE SMALLER STONE AND ROCK.

ROCK FILTER DAM AND EROSION CONTROL SEDIMENT TRAP

NOT TO SCALE

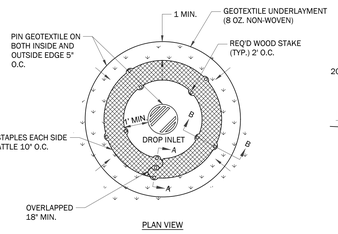


NOTES:

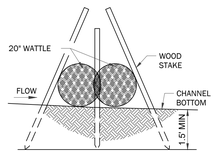
1. WIDTH = FULL WIDTH OF VEHICULAR ACCESS, 20' MINIMUM. PROVIDE PERIODIC TOP DRESSING WITH 2' STONE, AS NECESSARY. STONE SIZE = 1 1/2" TO 3 1/2" DIA.

CONSTRUCTION ENTRANCE/EXIT PAD

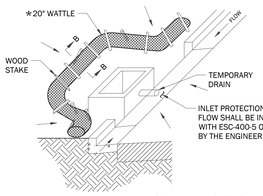
NOT TO SCALE



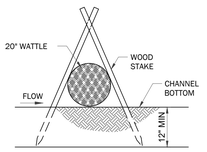
PLAN VIEW



SECTION A-A



CURB INLET PROTECTION



SECTION B-B

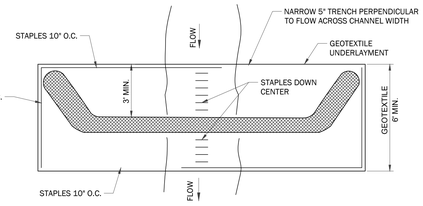
NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (18" MIN, 3' MAX).

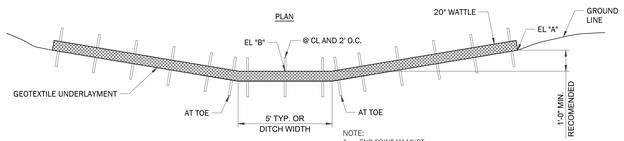
*3. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

WATTLE INLET PROTECTION

NOT TO SCALE



PLAN



ELEVATION

NOTE:

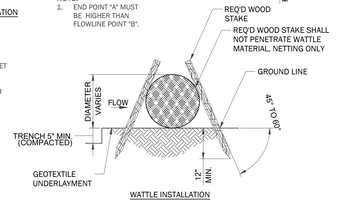
1. END POINT "A" MUST BE HIGHER THAN FLOWLINE POINT "B".

NOTES:

1. SPACING SHALL BE AS SHOWN ON THE PLANS FOR SPECIAL AREA'S, OR AS DETERMINED BY THE ACTUAL PROJECT NEEDS TO MINIMIZE EROSION.
2. ADDITIONAL EROSION CONTROL METHODS WILL BE REQUIRED AT THE DITCH OUTLET TO CONTAIN SEDIMENT.
3. WATTLE SHOULD NOT BE PLACED IN HARD BOTTOM CHANNELS.
4. STAPLES PLACED 18" APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES PLACED 10" APART ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

WATTLE CHECK DAM / SEDIMENT CONTROL LOG

NOT TO SCALE



WATTLE INSTALLATION

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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: EROSION CONTROL DETAILS

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER
12/19/2025

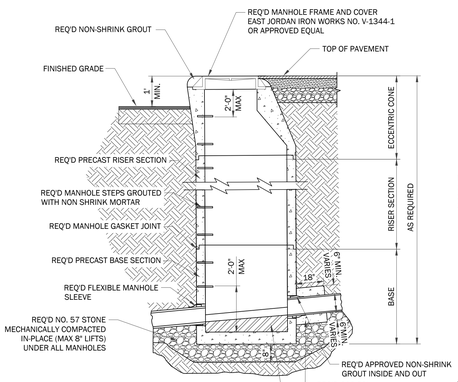
PROJ. MGR.:	CAH
DRAWN:	LBH
DATE: DECEMBER 19, 2025	
REVISIONS	

JOB NO. 24-40C

SHEET NO:

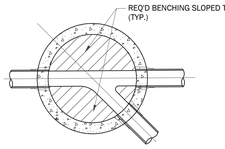
C3.2

0 1" 2"



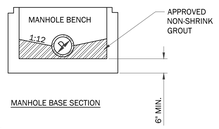
SECTION

NOTES:
1. MANHOLES IN STREETS AND IMPROVED AREAS SHALL BE FINISHED FLUSH WITH FINISHED SURFACE. IN UNIMPROVED AREAS, 12" ABOVE FINISHED SURFACE OR AS DIRECTED BY THE ENGINEER.
2. AFTER SEWER PIPE HAS BEEN LAID TO CORRECT GRADE ALIGNMENT, THE OPENING BETWEEN THE SEWER PIPE AND MANHOLE WALLS WILL BE SEALED WITH NON-SHRINKING GROUT SUCH AS "WATER PLUG OR ANTI-HYDRO".
3. DAMAGE TO THE PRECAST MANHOLE STRUCTURE SPECIFICALLY TO THE TONGUE AND GROOVE ENDS AND/OR GASKET SECTION SHALL REQUIRE THE STRUCTURE TO BE REPLACED BEFORE INSTALLATION. EXTREME CARE SHOULD BE USED DURING DELIVERY, INSTALLATION, ETC.



MANHOLE BASE PLAN

NOTES:
1. PLACE STEPS ON LEAST OBSTRUCTED WALL.
2. MAX. DEFLECTION ANGLE OF SEWER ALIGNMENT = 90°
3. OPENINGS FOR PIPES TO BE FACTORY CAST OR CORED.

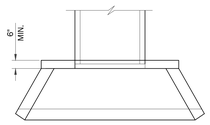


MANHOLE BASE SECTION

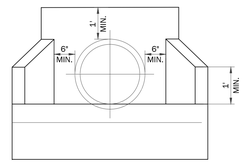
NOTES:
1. BENCH REQUIRED FOR PIPE DIAMETER LESS THAN 48"

STANDARD PRECAST MANHOLE

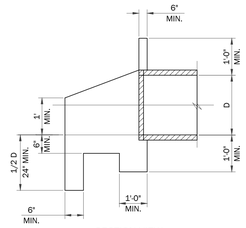
NOT TO SCALE



TOP VIEW



END VIEW

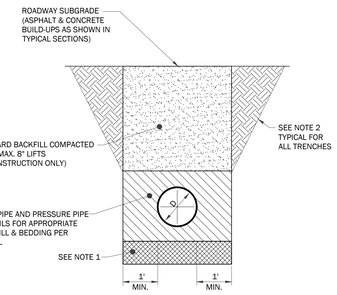


SECTION VIEW

NOTES:
1. ALL SUBMITTAL/SHOP DRAWINGS FOR PRECAST OR CAST-IN-PLACE HEADWALLS SHALL BE STAMPED BY A LICENSED, PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA. ALL DESIGN CALCULATIONS SHALL BE SUBMITTED.
2. THE DETAILS AND DIMENSIONS CHART PROVIDED GIVE STANDARD DIMENSIONS FOR HEADWALLS FOR VARIOUS STORM DRAIN DIAMETERS. THE CONTRACTOR SHOULD NOTE ALL MINIMUM DIMENSIONS.

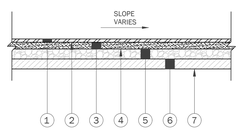
VERTICAL HEADWALL

NOT TO SCALE



TRENCH DETAIL - PAVED SURFACES (NEW CONSTRUCTION)

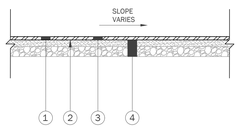
NOT TO SCALE



TYPICAL ASPHALT PAVEMENT (HEAVY DUTY)

NOT TO SCALE

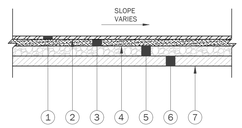
1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1.5" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(2.5" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(8" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
6. REQ'D: SUBGRADE (COMPACTED TO 98% ASTM D 698)
7. REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)



1.5" MILL AND OVERLAY

NOT TO SCALE

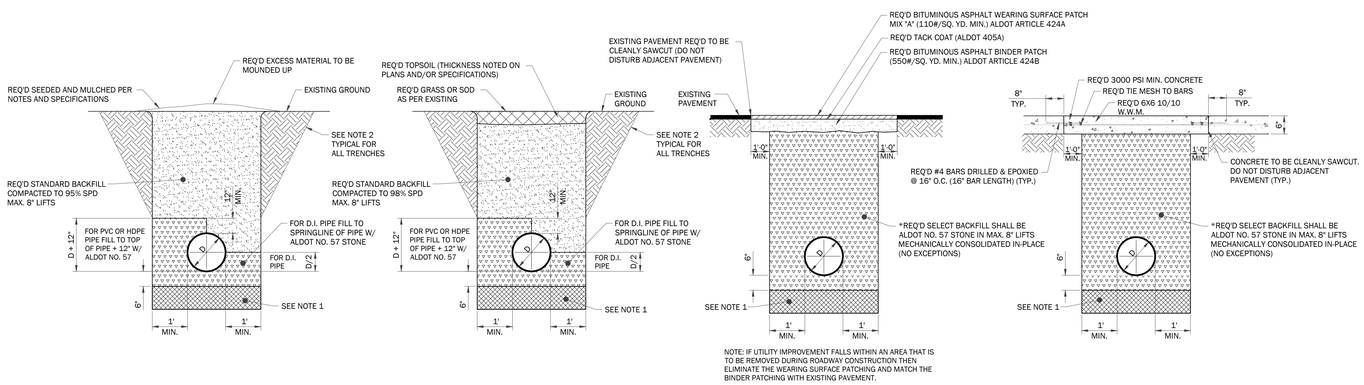
1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1.5" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: MILL EXISTING ASPHALT PAVING - 1.5"
4. REQ'D: EXISTING ASPHALT PAVEMENT TO REMAIN



TYPICAL ASPHALT PAVEMENT (STANDARD DUTY)

NOT TO SCALE

1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1.5" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(2" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(6" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
6. REQ'D: SUBGRADE (COMPACTED TO 98% ASTM D 698)
7. REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)



UNIMPROVED AREAS | IMPROVED AREAS OR LAWNS | EXISTING ASPHALT PAVING | EXISTING CONCRETE PAVING

TRENCH DETAILS

NOT TO SCALE

TRENCH DETAIL NOTES

1. TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE ENGINEER, DEPTH VARIES.
2. THERE IS NO ADDITIONAL PAY FOR TRENCH LAY BACK, BENCHING, SHORING, TRENCH BOXES, ETC. THIS IS CONSIDERED A SUBSIDIARY OBLIGATION TO THE UTILITY INSTALLATION.
*3. THE CONTRACTOR SHALL MECHANICALLY CONSOLIDATE ALL STONE BACKFILL IN MAXIMUM 8" LIFTS AS NOTED. FAILURE TO DO SO SHALL RESULT IN THE STONE BEING REMOVED/REINSTALLED AT THE CONTRACTOR'S EXPENSE OR ONLY PARTIAL PAYMENT BEING MADE FOR THE BID ITEM. STONE SHALL BE PLACED IN APPROPRIATE THICKNESS AND COMPACTED IN THE FOLLOWING SEQUENCE:
   (1) BEDDING (6" MIN.)
   (2) SPRINGLINE OF PIPE
   (3) ONE FOOT ABOVE TOP OF PIPE
   (4) 8" LIFTS FOR REMAINING TRENCH DEPTH
4. UNIMPROVED AREAS SHALL BE CONSIDERED AREAS WHERE NO PREVIOUS DEVELOPMENT HAS OCCURRED AND THE AREA IS NOT MAINTAINED REGULARLY SUCH AS A WOODED/FORESTED AREA OR OPEN FIELD.
5. IMPROVED AREAS OR LAWNS SHALL BE CONSIDERED AREAS WHERE REGULAR MAINTENANCE OCCURS SUCH AS IN PUBLIC RIGHT-OF-WAYS AND ON PRIVATE PROPERTIES. SETTLEMENT OF ANY KIND IN THESE AREAS IS UNACCEPTABLE AND MAXIMUM EFFORT SHALL BE GIVEN TO ENSURE THE IMPROVED/LANDSCAPE AREAS ARE RETURNED TO THEIR PREVIOUS STATE, UNLESS FURTHER IMPROVED BY THE PROJECT.
6. PAVEMENT AREAS (ASPHALT OR CONCRETE) SHALL BE CONSIDERED ANY ROADWAY, DRIVE, SIDEWALK, PAVERS, PARKING LOT, ETC. WHERE THE EXISTING OR FINAL FINISH GRADE IS AN ASPHALT OR CONCRETE SURFACE.
7. IN AREAS OF EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED COMPLETELY WITH STONE AS SHOWN ON THE EXISTING PAVEMENT TRENCH DETAILS. THESE AREAS INCLUDE CROSSING OF EXISTING ROADWAYS, PARKING LOTS, SIDEWALKS, ETC., AND ARE AREAS WHERE EXCAVATED WIDTHS DO NOT ALLOW FOR COMPACTION AND TESTING OF STANDARD BACKFILL. THESE CONFINED AREAS TYPICALLY CANNOT BE BENCHED BACK AND REQUIRE TALLER TRENCH BOXES TO MAINTAIN OSHA REQUIREMENTS.

   IN THE EVENT THAT THE EXISTING PAVEMENT AREA IS BEING COMPLETELY REMOVED TO A LIMIT THAT PROVIDES SUFFICIENT SPACE TO ALLOW PROPER VIBRATORY EQUIPMENT AND, IF NECESSARY, BENCHING OF SIDE SLOPES AS REQUIRED IN THE PROJECT EARTHWORK SPECIFICATIONS (BENCHING IS REQUIRED ON SLOPES GREATER THAN 4:1 SLOPE), THEN THE CONTRACTOR MAY FOLLOW THE TRENCH DETAIL FOR PAVED AREAS (NEW CONSTRUCTION). THIS DETAIL ALLOWS FOR THE USE OF EARTHEN BACKFILL AND WOULD ALSO REQUIRE THE CONTRACTOR TO ALLOW SUFFICIENT WIDTH THAT THE OWNER'S GEOTECHNICAL REPRESENTATIVE COULD TAKE PERIODIC COMPACTION TESTS. IF THE CONTRACTOR IS UNSURE OF WHERE STONE OR EARTHEN BACKFILL IS TO BE INSTALLED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.

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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: CIVIL DETAILS

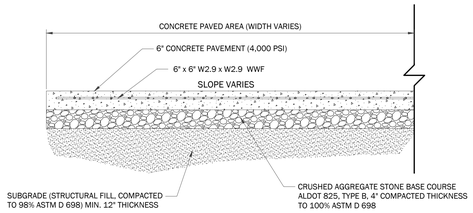
ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER
12/19/2025

PROJ. MGR.:	CAH
DRAWN:	LBH
DATE: DECEMBER 19, 2025	
REVISIONS	

JOB NO. 24-40C

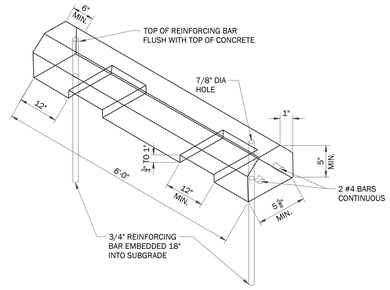
SHEET NO:

C4.0



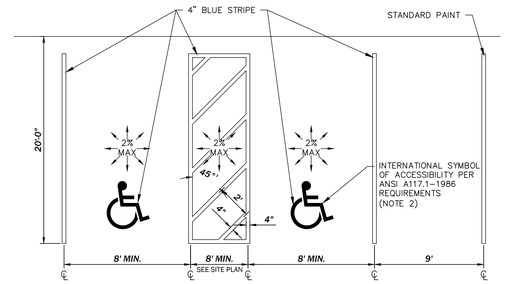
TYPICAL CONCRETE PAVING SECTION

NOT TO SCALE



PRECAST CONCRETE WHEELSTOP

NOT TO SCALE

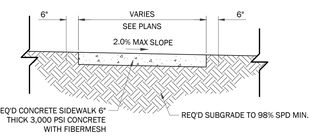


1. RE: SITE PLAN FOR LOCATION OF ADA PARKING SPACES AND ACCESS AISLE IN RELATIONSHIP TO THE DOOR LOCATION. (THIS DETAIL IS FOR STRIPING LAYOUT ONLY)

2. PARKING STRIPES AND THE ADA INTERNATIONAL HANDICAP SYMBOL ARE TO BE PAINTED PER THE MANUFACTURER'S RECOMMENDATIONS.

ADA PARKING LAYOUT DETAIL

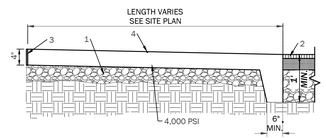
NOT TO SCALE



NOTES:
1. EXPANSION JT. REQ'D. @ 40' MAX. INTERVALS BUT NOT LESS THAN 30' WITH EXPANSION JOINT MATERIAL.
2. CONTRACTION JOINTS SHALL BE HAND-TOOLED ONLY IN LOCATIONS AS INDICATED BY THE SCORING PATTERN SHOWN IN THE CONSTRUCTION PLANS. JOINTS SHALL BE INSTALLED AT A DEPTH OF 1/4 THICKNESS OF THE SLAB MIN. NO SAW-CUT OF JOINTS IS ALLOWED.
3. SIDEWALKS SHALL HAVE AN EXPANSION JOINT INSTALLED IN ALL LOCATIONS WHERE NEW IMPROVEMENTS MEET EXISTING INFRASTRUCTURE.
4. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
5. THE CONTRACTOR SHALL PROVIDE 3 MOCKUP PANELS (AT MINIMUM 3' X 3' IN SIZE) THAT HE FLOATS LIGHT BROOM, MEDIUM BROOM, AND HEAVY BROOM. THE OWNER WILL CHOOSE THE FINISH THEY DESIRE FOR THE PROJECT AND THE CONTRACTOR WILL PROCEED AS DIRECTED.
6. ALL STONE SHALL BE MECHANICALLY COMPACTED IN PLACE, NO EXCEPTIONS.
7. CONTRACTOR SHALL REFERENCE THE PLANS FOR THE CONCRETE SIDEWALK SCORING PATTERN. THE CONTRACTOR SHALL MATCH THIS PATTERN AS SHOWN.
8. EXPANSION JOINT MATERIAL SHALL BE PUSHED DOWN 1/8" FROM TOP OF SIDEWALK.
9. EXPANSION JOINT MATERIAL SHALL BE CONTINUOUS THROUGH THE OVERALL DEPTH OF THE SIDEWALK.

CONCRETE SIDEWALK

NOT TO SCALE

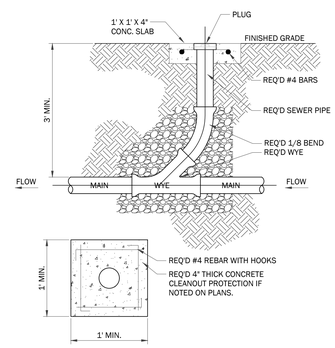


KEYED NOTES:

1. 4" COMPACTED AGGREGATE BASE
2. PAVEMENT
3. COMPRESSIBLE FILLER, CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER.
4. 1/8" CONTRACTION JOINT EVERY 5' TO 10'; EXPANSION JOINT EVERY 15 FEET.

PERIMETER SIDEWALK-FLUSH DETAIL

NOT TO SCALE

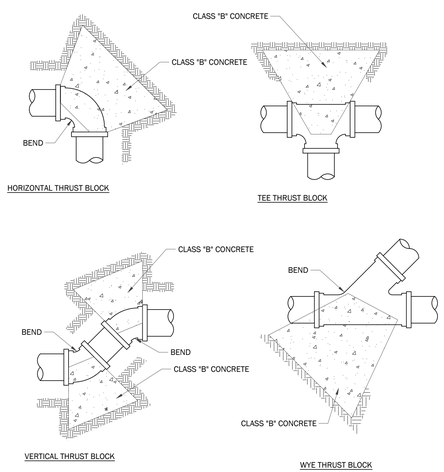


CLEANOUT PROTECTION DETAIL

NOTES:
1. CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS.
2. CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.

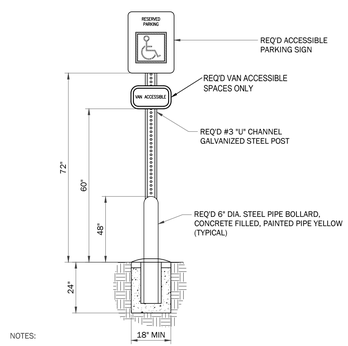
CLEANOUT DETAIL

NOT TO SCALE



THRUST BLOCK DETAILS

NOT TO SCALE

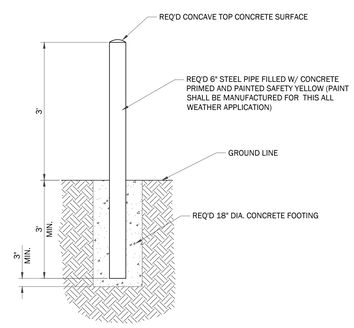


NOTES:

1. ADA ACCESSIBLE PARKING SIGN SHALL CONFORM TO ALL GOVERNING REGULATIONS.
2. NO BOLLARD REQUIRED FOR TEMPORARY ADA PARKING SIGNS.

ADA PARKING SIGN DETAIL

NOT TO SCALE



STATIONARY BOLLARD

NOT TO SCALE

TTL
Job No.: 241101197
10 Inverness Center Parkway, Suite 350
Birmingham, AL 35242
205.539.0384 | www.ttlusa.com

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: CIVIL DETAILS

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER
12/19/2025

PROJ. MGR.:	CAH
DRAWN:	LBH
DATE: DECEMBER 19, 2025	
REVISIONS	

JOB NO. 24-40C

SHEET NO:

C4.1

0 1" 2"

GENERAL NOTES

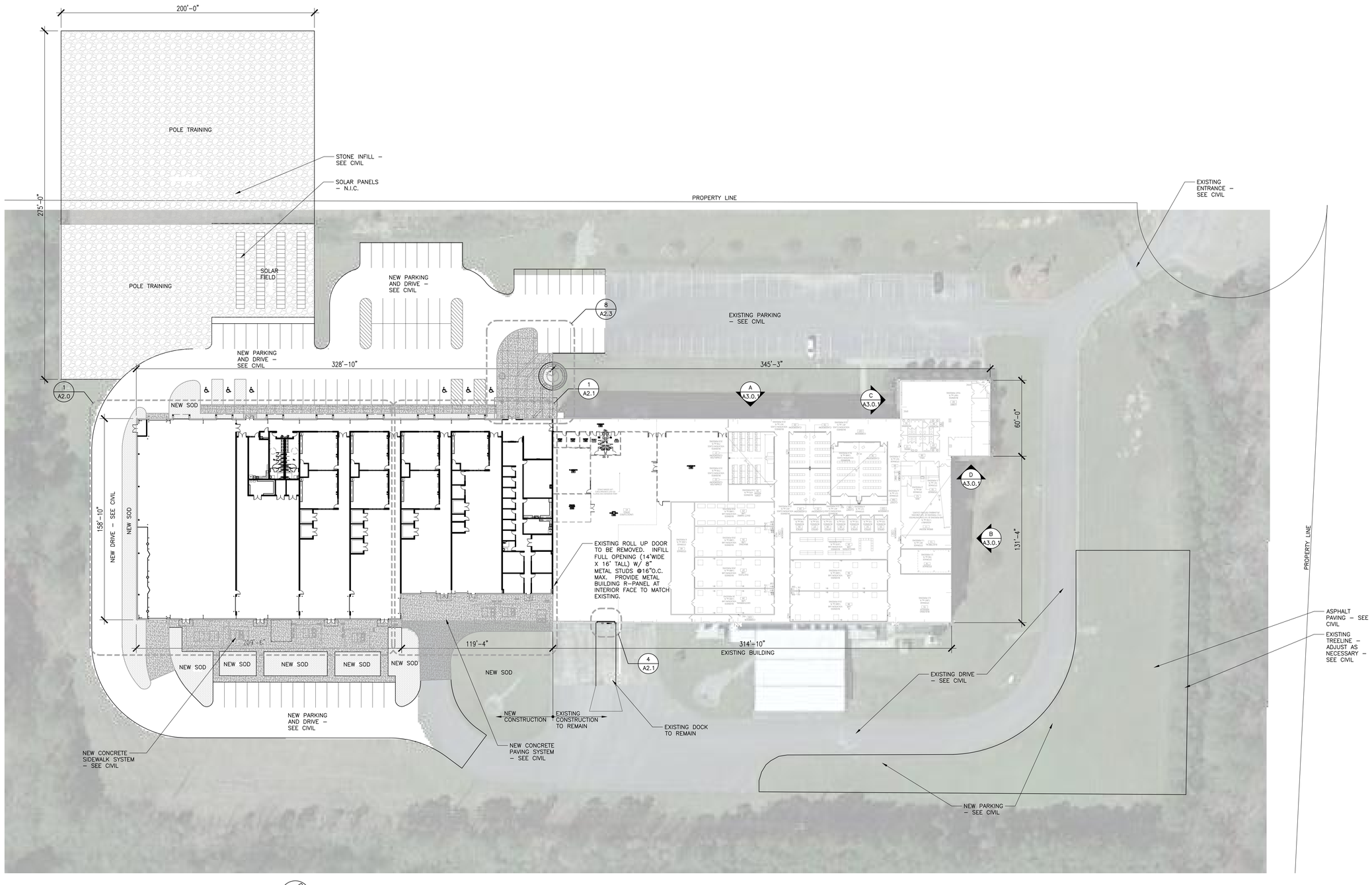
SEE ARCHITECTURAL FINISH PLANS AND SPECIFICATIONS FOR AREAS REQUIRING THICKSET OR THINSET CERAMIC TILE INSTALLATION. COORDINATE WITH SUBCONTRACTOR AND DROP CONCRETE FLOOR SLAB IN SUCH AREAS AS REQUIRED AND RECOMMENDED BY THE TILE MANUFACTURER AND THE "TILE COUNCIL OF AMERICA." PROVIDE SLOPE FOR POSITIVE DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.

EXTEND & KEY RATED WALLS TO BOTTOM OF ROOF DECK - SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.

COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PADS AS REQUIRED

ALL PLAN DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE

SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.



1 ARCHITECTURAL SITE PLAN

SCALE: 1/32" = 1'-0"

NOTE; THE OWNER OWNS THE SITE TO THE WEST TO ALLOW FOR THE POLE TRAINING YARD

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ARCHITECTURAL SITE PLAN

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

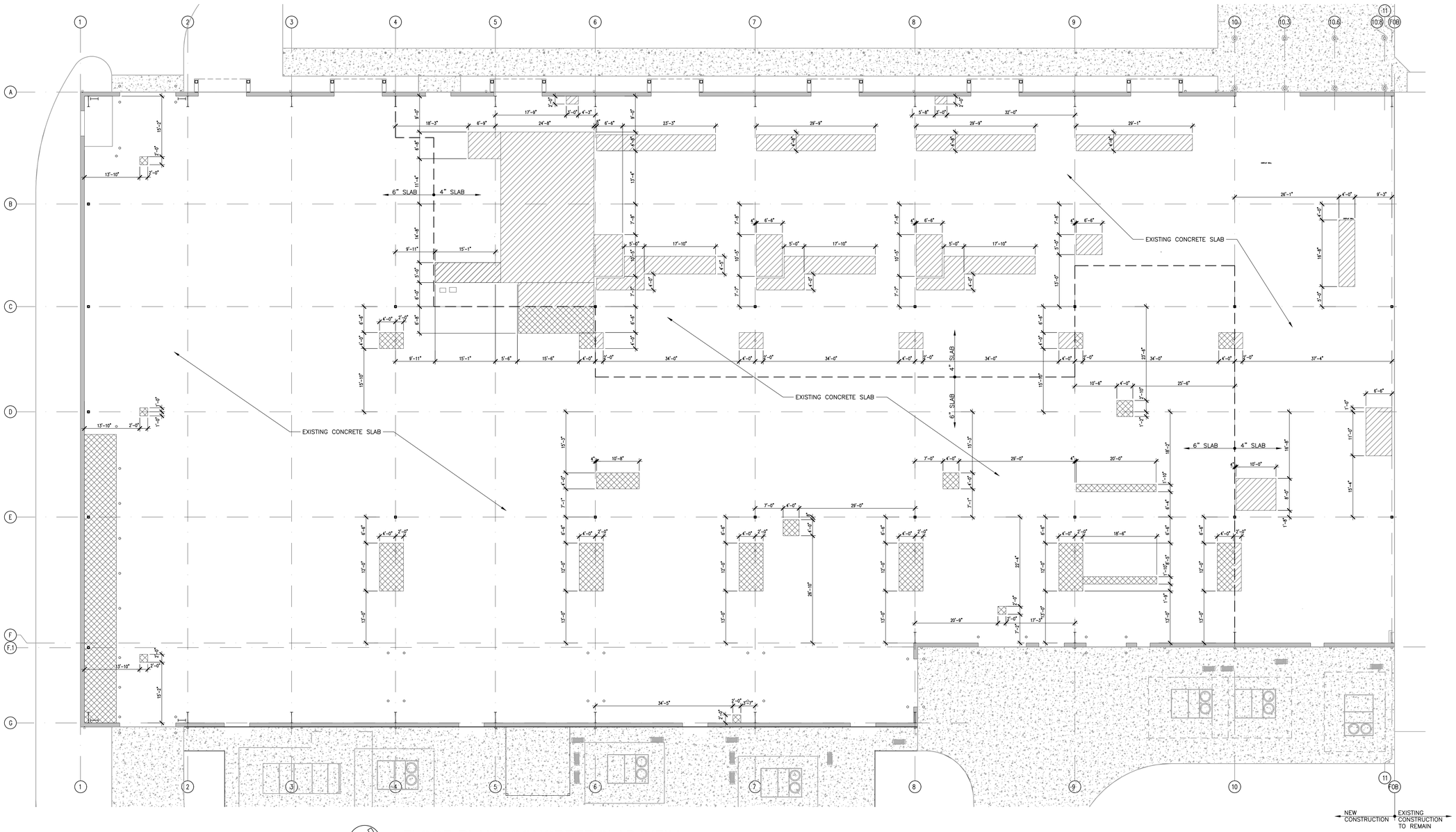
PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A1.0
1 OF 24

0 1" 2"

LEGEND

- NEW 4" CONCRETE SLAB OVER EXISTING POROUS FILL – SEE STRUCTURAL
- NEW 6" CONCRETE SLAB OVER EXISTING POROUS FILL – SEE STRUCTURAL



1 FLOOR PLAN - CONCRETE SLAB INFILL

SCALE: 3/32" = 1'-0"

NOTE: SEE STRUCTURAL FOR SLAB INFILL DETAILS
INTERIOR WALLS NOT SHOWN FOR CLARITY

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FLOOR PLAN- CONCRETE SLAB INFILL

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A1.1
2 OF 24

SYMBOLS LEGEND

DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, HOLD OPEN	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL
DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, MANUAL HOLD OPEN
DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ROUGH IN ELECTRICAL	SECT. MARK, SHEET NUMBER
ELEV. MARK, SHEET NUMBER	SHEET NUMBER, INT. ELEVATION
NEW DOOR AND SWING	WALL PARTITION TYPE - ASSUME TYPE 'A' FOR NEW WALLS NOT KEYED. CONTACT ARCH. WITH ?S
EWC ELECTRIC WATER COOLER	EXTERIOR WINDOW
TB TACK BOARD	STOREFRONT
GB GLASS BOARD	INTERIOR WINDOW
FEC RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	AREA OF SLAB BLOCKOUT
A200 ROOM NUMBER	AREA OF CONCRETE
EJ EXPANSION JOINT	F.D. FLOOR DRAIN
FE SURFACE MOUNT FIRE EXTINGUISHER	CJ CONTROL JOINT

GENERAL NOTES

SEE ARCHITECTURAL FINISH PLANS AND SPECIFICATIONS FOR AREAS REQUIRING THICKSET OR THINSET CERAMIC TILE INSTALLATION. COORDINATE WITH SUBCONTRACTOR AND DROP CONCRETE FLOOR SLAB IN SUCH AREAS AS REQUIRED AND RECOMMENDED BY THE TILE MANUFACTURER AND THE "TILE COUNCIL OF AMERICA." PROVIDE SLOPE FOR POSITIVE DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.

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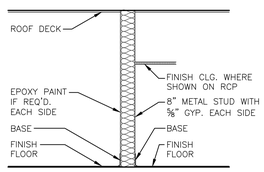
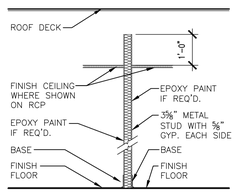


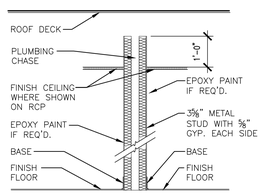
TYPE A — MTL STUD WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND ALL DUCTS, CONDUIT, PIPING, ETC.



TYPE B — MTL STUD WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND DUCTS, PIPING, ETC.



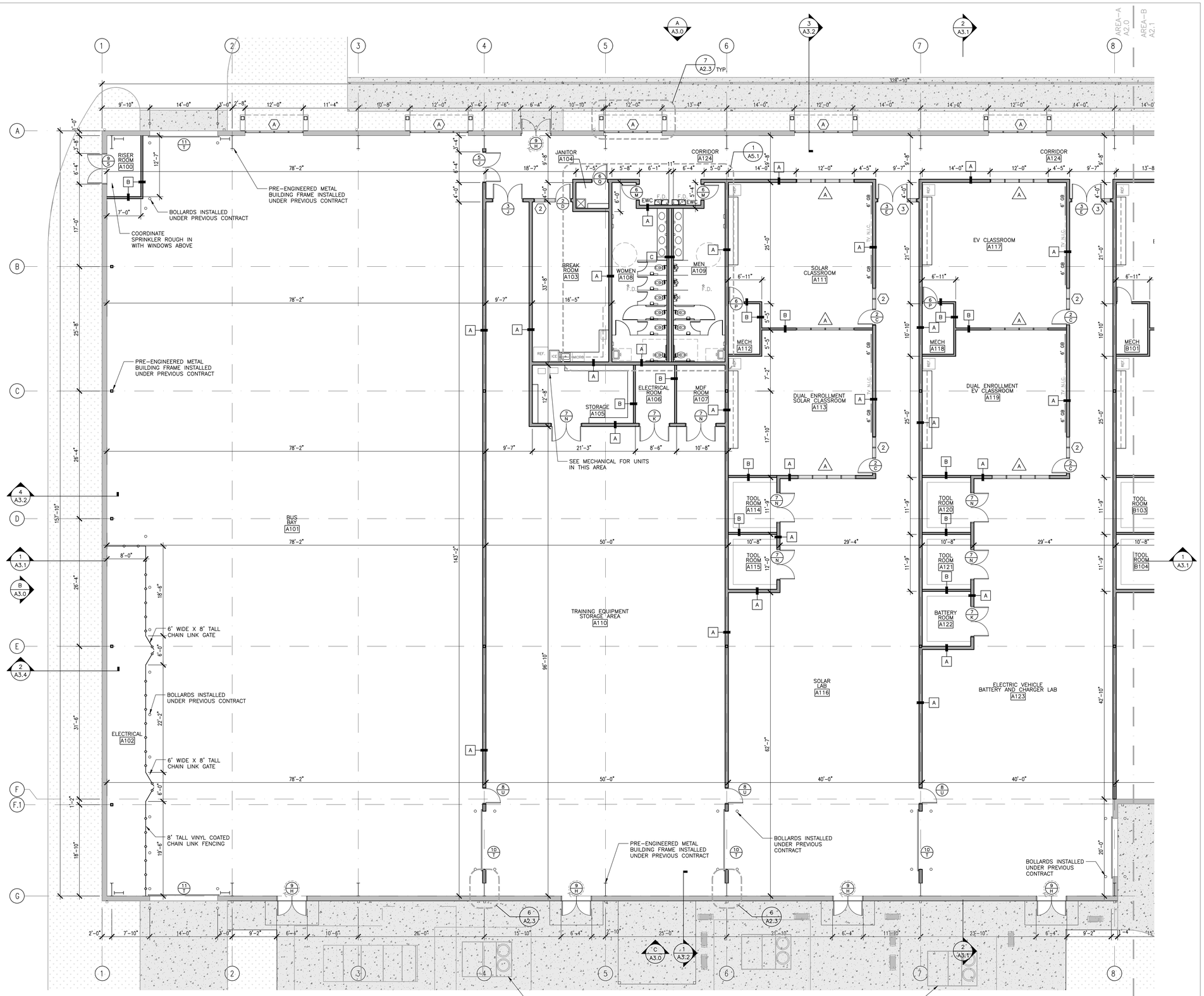
TYPE C — MTL STUD WET WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND ALL DUCTS, CONDUIT, PIPING, ETC.

PARTITION SCHEDULE

SCALE: NTS

NOTE: SEE LIFE SAFETY PLAN FOR FIRE RATING. PROVIDE FIRE DAMPERS AND SEAL ALL PENETRATIONS WITH FIRE CAULK AS REQUIRED AT RATED PARTITIONS AND BARRIERS.

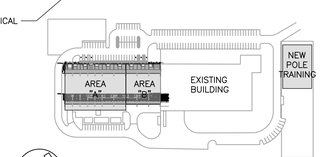


1 FLOOR PLAN- AREA "A"

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

NOTE:

1. UNDERGROUND PLUMBING AND ELECTRICAL ROUGH IN PROVIDED UNDER PREVIOUS CONTRACT – PROTECT AS REQUIRED.
2. INTERIOR WALL LINER PANEL (MATERIAL PROVIDED– CONTRACTOR INSTALLED) EXTENT OF EAST WALL/ COLUMN LINE "G" AND "F"



2 KEY PLAN

NOT TO SCALE

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FLOOR PLAN- AREA "A"

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.:	S. CALMA
DRAWN:	JWW
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

A2.0

3 OF 24

SYMBOLS LEGEND

DOOR TYPE / DOOR RATING / HARDWARE SYMBOL / HOLD OPEN	DOOR TYPE / DOOR RATING / HARDWARE SYMBOL
DOOR TYPE / DOOR RATING / HARDWARE SYMBOL / ACCESS CONTROL	DOOR TYPE / DOOR RATING / HARDWARE SYMBOL / MANUAL HOLD OPEN
DOOR TYPE / DOOR RATING / HARDWARE SYMBOL / ROUGH IN ELECTRICAL	SECT. MARK / SHEET NUMBER
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EWC ELECTRIC WATER COOLER	EXTERIOR WINDOW
TB TACK BOARD	STOREFRONT
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A200 ROOM NUMBER	AREA OF CONCRETE
EJ EXPANSION JOINT	F.D. FLOOR DRAIN
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GENERAL NOTES

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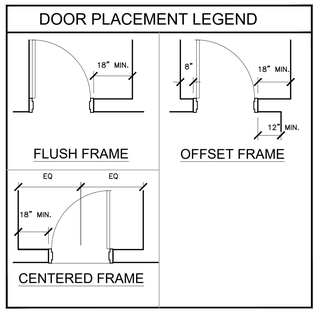
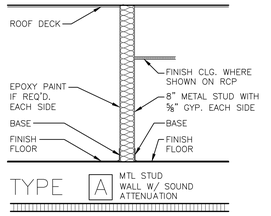
SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

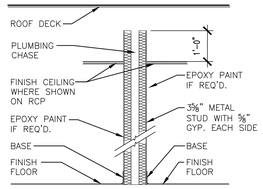
DOOR PLACEMENT LEGEND





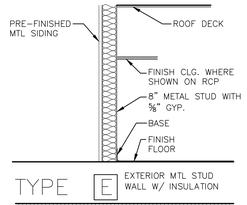
TYPE A MTL STUD WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND ALL DUCTS, CONDUIT, PIPING, ETC.



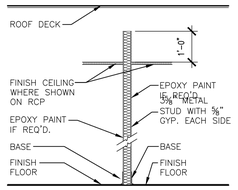
TYPE C MTL STUD WET WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND ALL DUCTS, CONDUIT, PIPING, ETC.



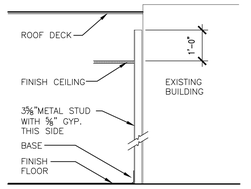
TYPE E EXTERIOR MTL STUD WALL W/ INSULATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND ALL DUCTS, CONDUIT, PIPING, ETC.



TYPE B MTL STUD WALL W/ SOUND ATTENUATION

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND DUCTS, PIPING, ETC.



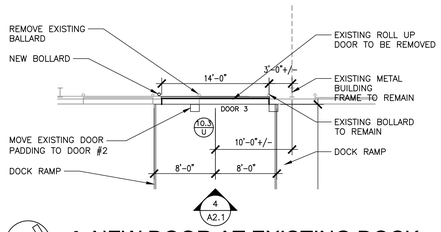
TYPE D

SEE LIFE SAFETY PLAN FOR FIRE RATING.
SEAL AROUND DUCTS, PIPING, ETC.

PARTITION SCHEDULE

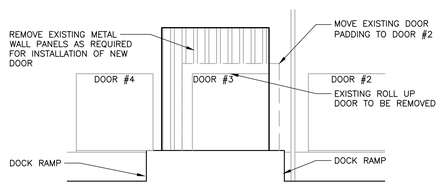
SCALE: NTS

NOTE: SEE LIFE SAFETY PLAN FOR FIRE RATING. PROVIDE FIRE DAMPERS AND SEAL ALL PENETRATIONS WITH FIRE CAULK AS REQUIRED AT RATED PARTITIONS AND BARRIERS. EXTEND ALL CORRIDOR WALLS TO BOTTOM OF STRUCTURE ABOVE AS REQUIRED.



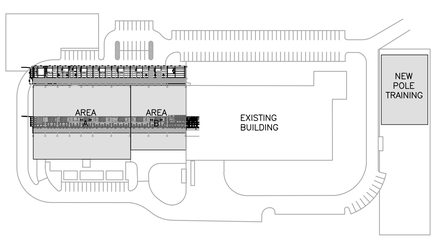
4 NEW DOOR AT EXISTING DOCK

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



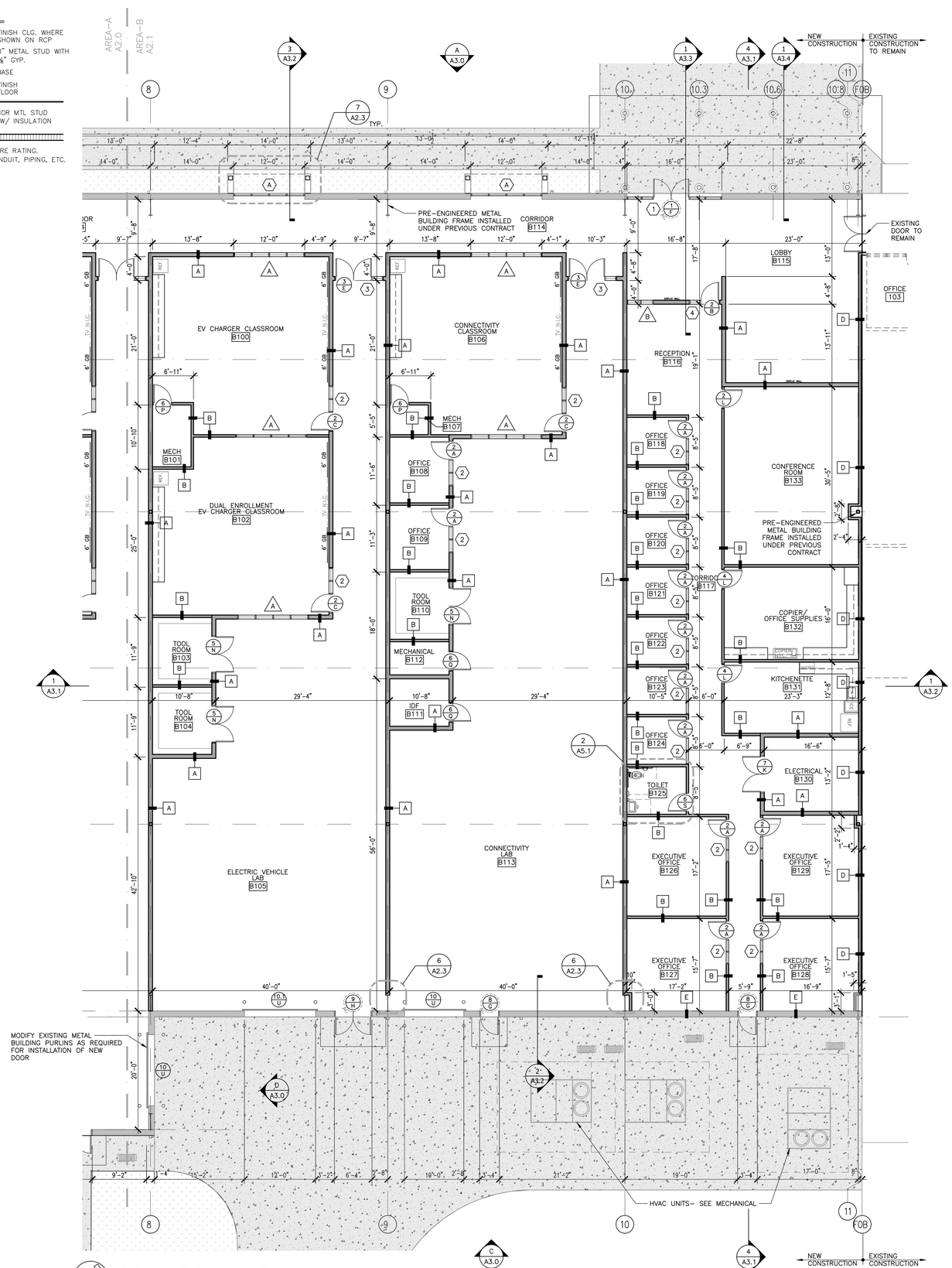
3 ELEVATION AT EXISTING DOCK

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



2 KEY PLAN

NOT TO SCALE



1 FLOOR PLAN- AREA "B"

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

NOTE:
1. UNDERGROUND PLUMBING AND ELECTRICAL ROUGH IN PROVIDED UNDER PREVIOUS CONTRACT – PROTECT AS REQUIRED.
2. INTERIOR WALL LINER PANEL (MATERIAL PROVIDED UNDER PREVIOUS CONTRACT– CONTRACTOR INSTALLED) EXTENT OF EAST WALL/ COLUMN LINE "G" AND "F"

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FLOOR PLAN- AREA "B"

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

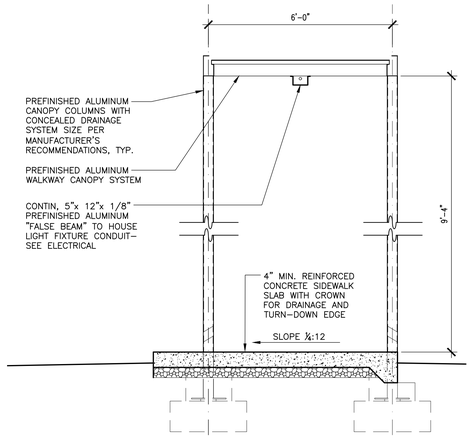
PROJ. MGR.:	S. CALMA
DRAWN:	JWW
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

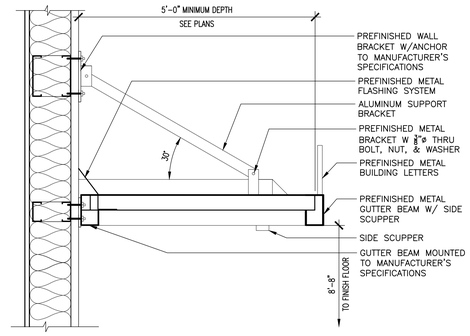
A2.1

4 OF 24



2 CONNECTOR CANOPY SECTION

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



3 AWNING DETAIL

SCALE: 1" = 1'-0"

SYMBOLS LEGEND

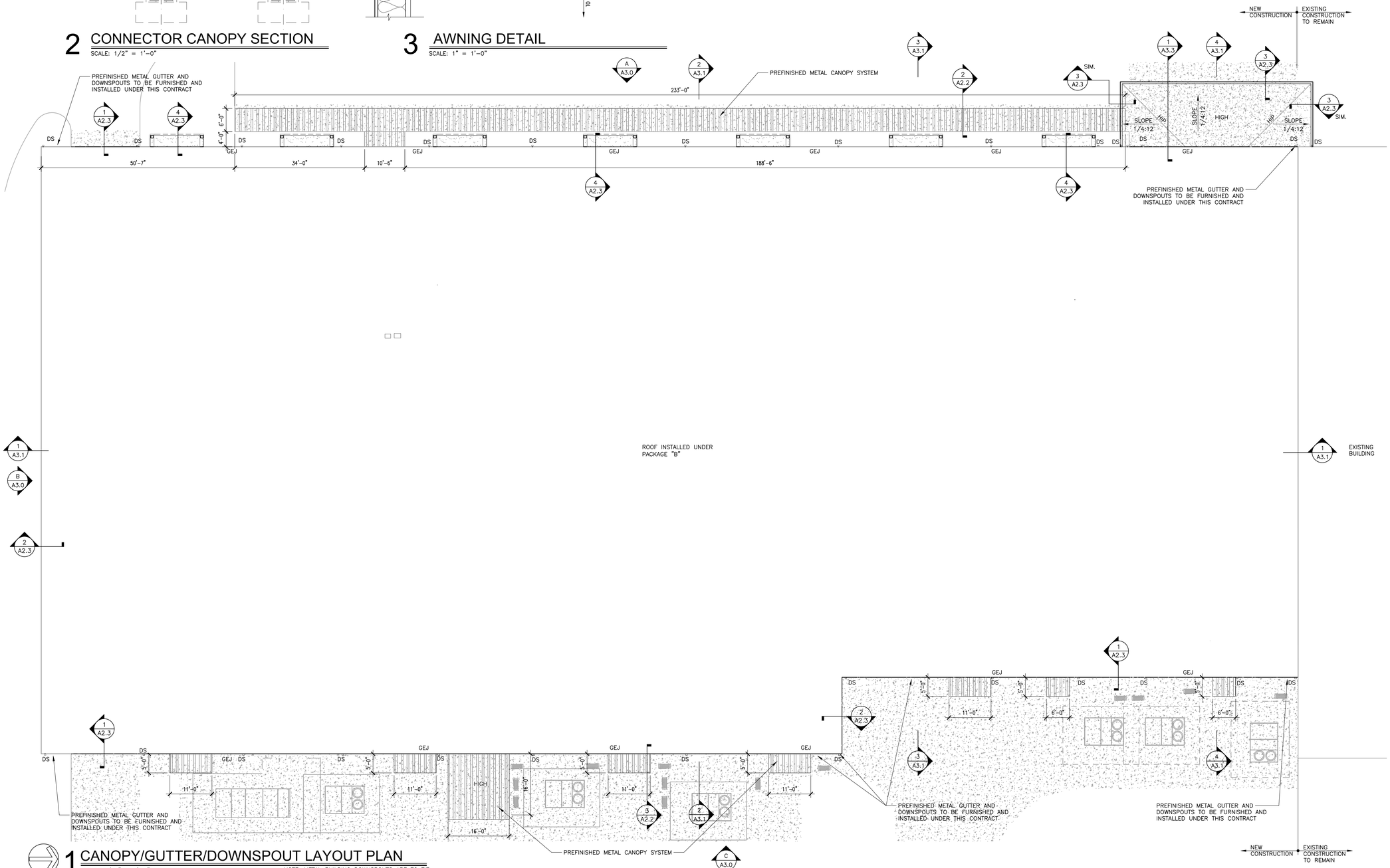
ROOF DETAIL MARKER: DETAIL NUMBER / SHEET NUMBER	DIRECTION OF ROOF SLOPE MARKER: SLOPE 1/4:12 — DOWNWARD SLOPE; RISE : RUN
PREFINISHED METAL CANOPY SYSTEM	
TPO ROOFING SYSTEM	

ROOF LEGEND

DS	DOWNSPOUT	HIGH	HIGH CANOPY
GEJ	GUTTER EXPANSION JOINT	SIM	SIMILAR TO OTHERS
SB	SPLASH BLOCK		

GENERAL ROOFING NOTES

1. DO NOT SCALE DRAWINGS–FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
2. VERIFY ALL BUILDING UTILITIES AND PLUMBING & ELECTRICAL SERVING ROOF TOP EQUIPMENT PRIOR TO START OF WORK. SHOULD EXISTING UTILITIES POSE A SAFETY THREAT OR INTERFERE WITH THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL TEMPORARILY REMOVE AND REPLACE, IN SCHEDULED COORDINATION WITH THE BUILDING OWNER, TO PROVIDE WORK IN PROXIMITY AND ENDEAVOR TO MINIMIZE BUILDING UTILITY DOWN–TIME. ROOF–TOP EQUIPMENT SHALL REMAIN FUNCTIONAL PER ORIGINAL CONDITION UPON COMPLETION OF THE WORK.
3. NEW WORK SHALL ALIGN/BLEND WITH AND TIE TO EXISTING REMAINING WORK AS IF PROVIDED ORIGINALLY.
4. ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE.
5. DO NOT CONCENTRATE MATERIAL LOADS ON THE EXISTING ROOF.
6. ASSUME ADJACENT BUILDINGS WILL BE OCCUPIED AND MUST BE MAINTAINED OPERATIONAL; MAINTAIN TRAFFIC FLOW AND AVOID DISRUPTIONS TO THE OCCUPANTS DURING THE WORK.
7. DO NOT IMPAIR FACILITY OPERATIONS WITH REROOFING OPERATIONS; AVOID DELIVERIES DURING TIMES OF HEAVY TRAFFIC, MAINTAIN UTILITIES OPERATION/COORDINATE ANY PLANNED OUTAGES, DO NOT BLOCK EXITS, ETC.
8. ENSURE MINIMUM INTERFERENCE W/ THE DAILY OPERATIONS OF THE FACILITY; MAINTAIN CLEAR EXITS, SIDEWALKS & DRIVES. REMOVE OR CONTAIN DEBRIS DAILY. COORDINATE TO AVOID DISRUPTION OF THE OCCUPANT'S SPECIAL EVENTS. COORDINATE DELIVERY SCHEDULE TO AVOID TRAFFIC CONFLICT WITH THE OCCUPANTS.
9. PROTECT EXISTING INTERIOR AND EXISTING TO REMAIN. SECURE AND PROTECT BUILDING INTERIOR AND CONTENTS FROM WEATHER DAMAGES AND THEFT INTRUSION.
10. MAINTAIN THE EXISTING BUILDING DRIED–IN DAILY AS REQUIRED TO FULLY KEEP RAIN FROM ENTERING, REGARDLESS OF FAVORABLE WEATHER FORECASTS, SHALL BE REQUIRED PRIOR TO COMPLETION OF THE WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEATHER TIGHTNESS, SHALL INSPECT AND ACCEPT ALL SUBSTRATE AND PENETRATION CONDITIONS PRIOR TO COMMENCING WITH REROOFING OPERATIONS.
12. PROTECT EXISTING LANDSCAPING TO REMAIN.
13. REMOVE AND LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS FROM ROOF AND GROUNDS DAILY.
14. PROVIDE CLEAN–UP AND CORRECT ANY DAMAGES TO EXISTING BUILDING AND GROUNDS.
15. GUTTERS SHALL NOT EXCEED 50' IN LENGTH WITHOUT A GUTTER EXPANSION JOINT.
16. DOWNSPOUTS SHOWN ON THIS SHEET ARE SHOWN AS REFERENCE. CONTRACTOR TO SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS AND TO AVOID ANY CONFLICT WITH DOORS, WINDOWS, AND HEAVY TRAFFIC AREAS.



1 CANOPY/GUTTER/DOWNSPOUT LAYOUT PLAN

SCALE: 3/32" = 1'-0"

NOTE: METAL BUILDING DOWNSPOUTS ARE TO TIE TO EXISTING STORM SEWER PIPING

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ROOF, CANOPY & AWNING PLAN

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

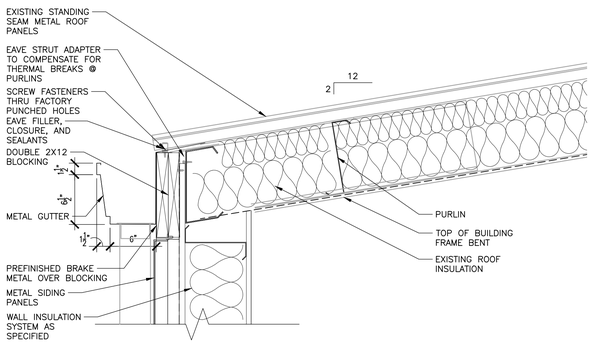
PROJ. MGR.:	S. CALMA
DRAWN:	JWW
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

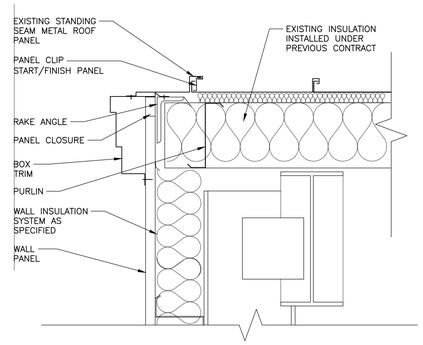
A2.2

5 OF 24



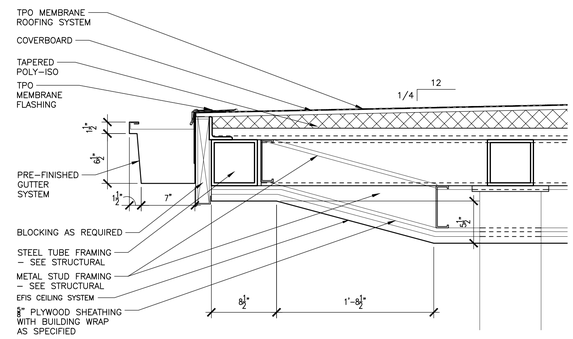
1 TYPICAL EXISTING EAVE DETAIL

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



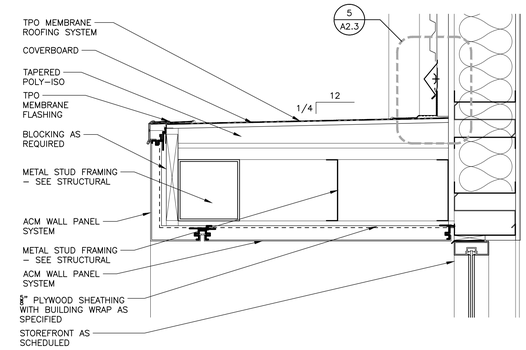
2 TYPICAL RAKE DETAIL

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



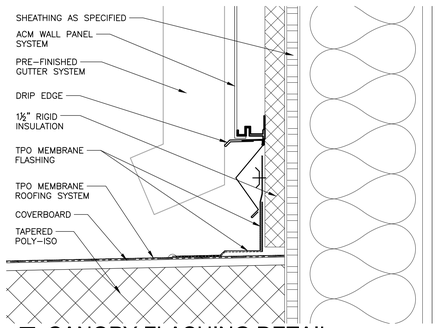
3 CANOPY DETAIL

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



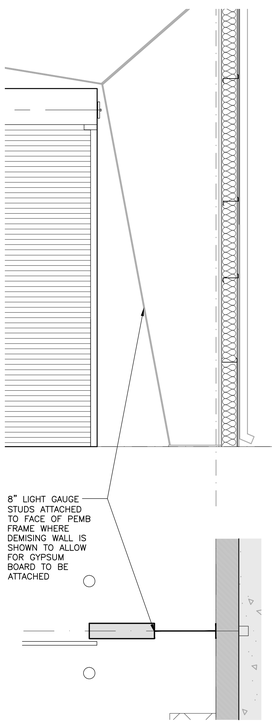
4 WING WALL DETAIL

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



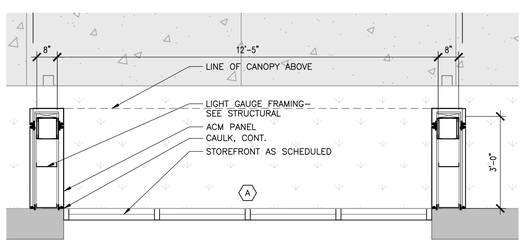
5 CANOPY FLASHING DETAIL

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



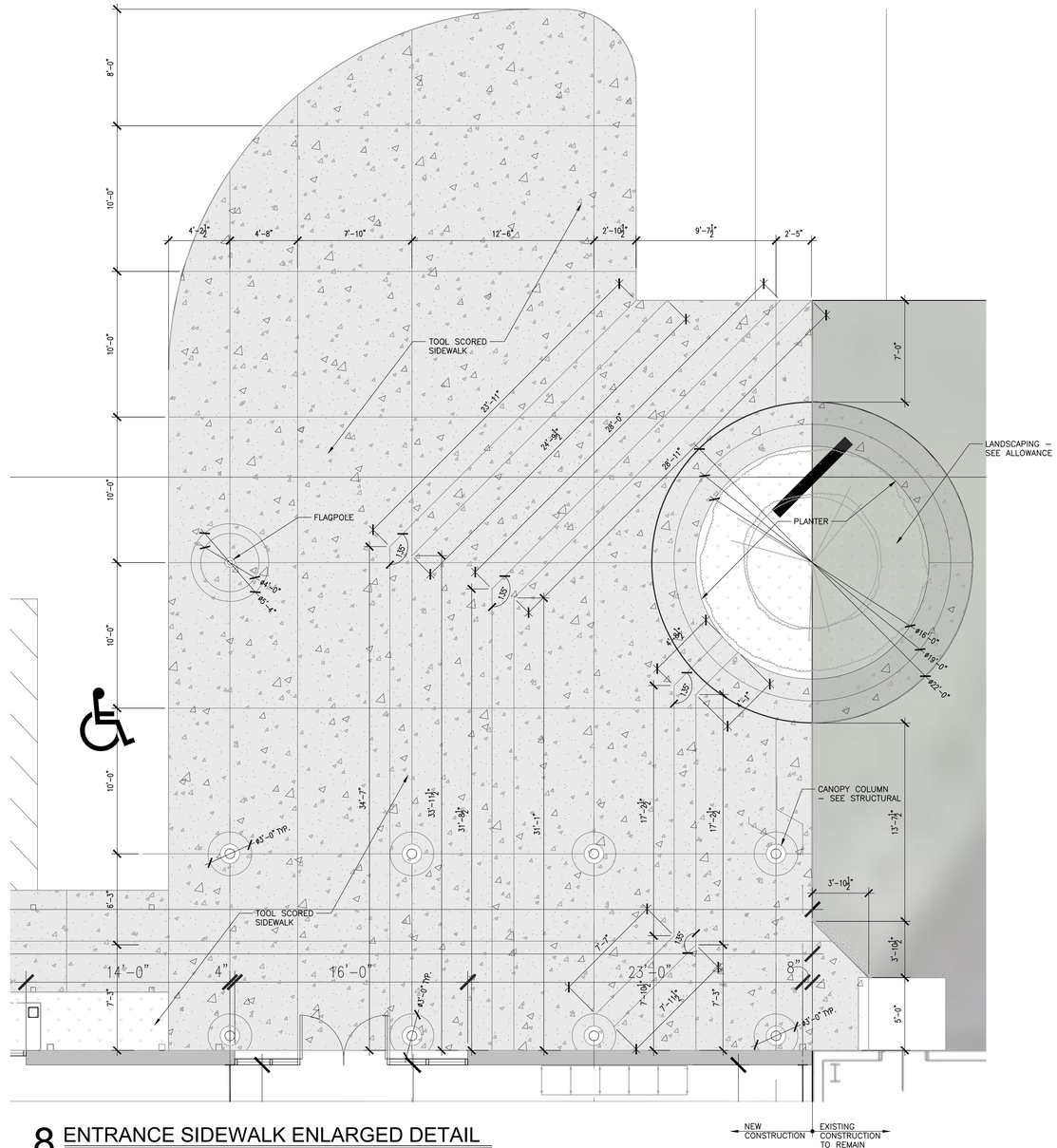
6 LIGHT GAUGE MTL STUD TO PEMB

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



7 ACM WRAPPED AND COVERED WING WALL DETAIL

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



8 ENTRANCE SIDEWALK ENLARGED DETAIL

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ROOF AND BUILDING DETAILS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A2.3
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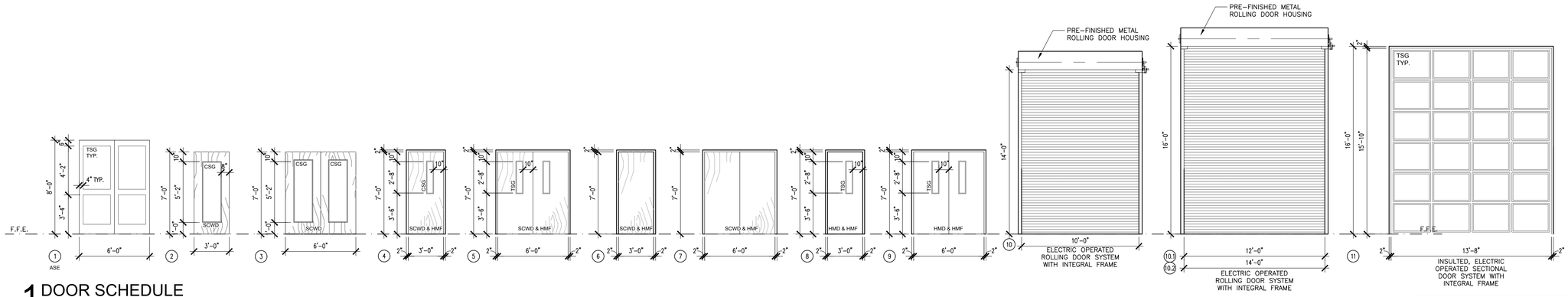
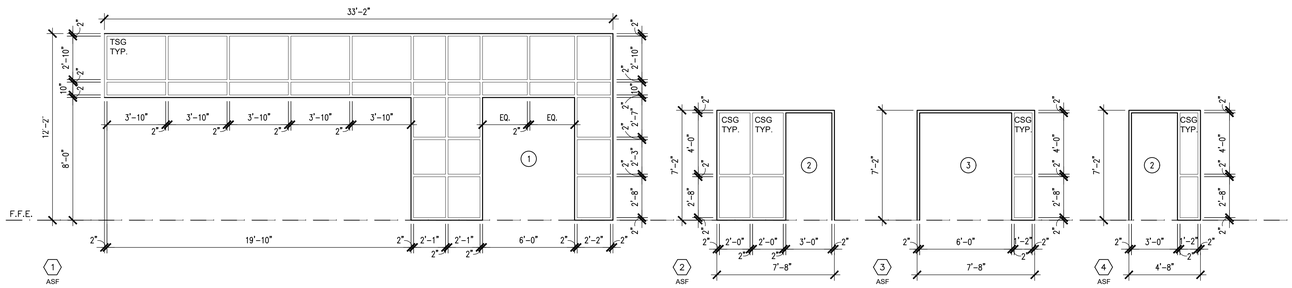


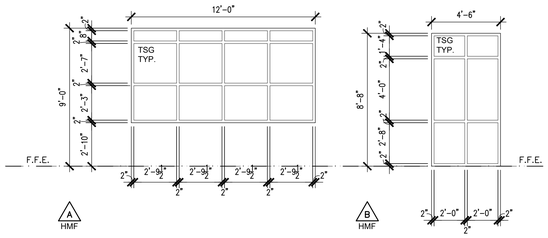
1 DOOR SCHEDULE

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



2 STOREFRONT SCHEDULE

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



3 INTERIOR WINDOW SCHEDULE

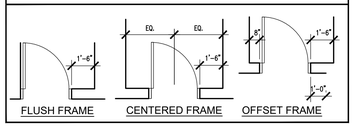
SCALE: 1/4" = 1'-0"

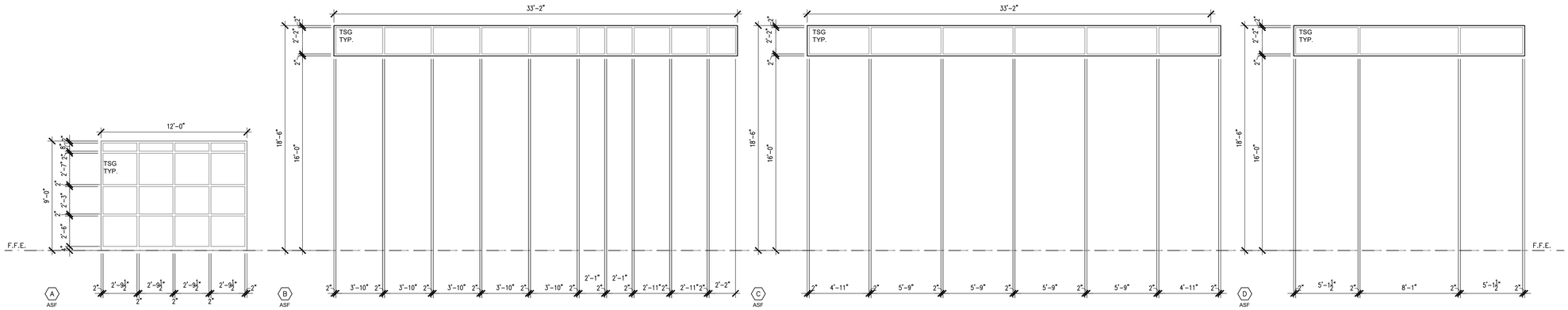
DOOR AND WINDOW LEGEND

AL	PREFINISHED ALUMINUM LOUVER SYSTEM AS SPECIFIED
CSG	1/4" THICK CLEAR TEMPERED SAFETY GLASS.
CFG	CLEAR FIRE RATED SAFETY GLASS AS SPECIFIED.
TSG	1" TINTED INSULATED LOW-E TEMPERED SAFETY GLASS AS SPEC.
SCWD	SOLID CORE WOOD DOOR
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
ASE	PREFINISHED ALUMINUM STOREFRONT ENTRANCE SYSTEM AS SPECIFIED.
ASF	PREFINISHED ALUMINUM STOREFRONT FRAME SYSTEM AS SPECIFIED.

NOTES:
1. PROVIDE CFG WHERE GLASS IS INDICATED IN RATED DOORS AND WINDOWS.
2. ALL EXTERIOR WINDOW AND STOREFRONT GLAZING SHALL BE 1" INSULATED SAFETY GLAZING.
3. OVERALL DIMENSIONS INDICATE ROUGH OPENING / MASONRY OPENING.

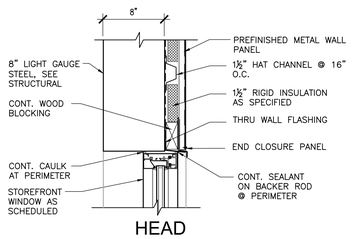
DOOR PLACEMENT LEGEND





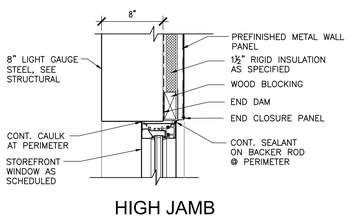
4 WINDOW SCHEDULE

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



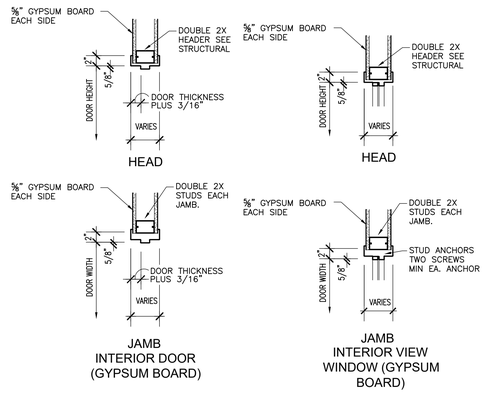
5 DETAIL

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



6 DETAIL

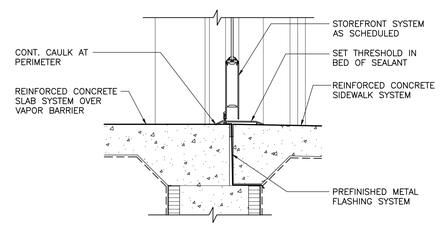
SCALE: 1 1/2" = 1'-0"



7 HOLLOW METAL DETAILS

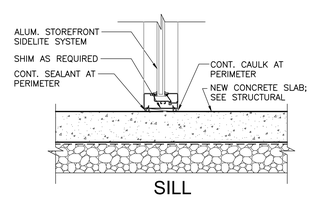
SCALE: 1" = 1'-0"

TYPICAL



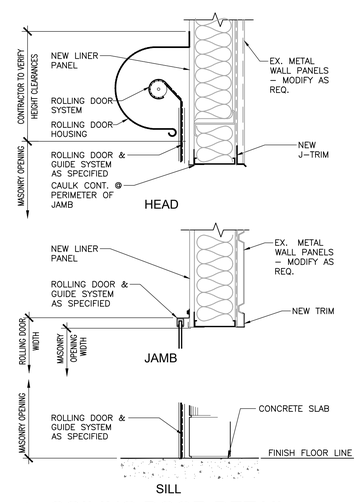
8 DETAIL

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



9 DETAIL

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



3 COILING DOOR DETAIL

SCALE: 1" = 1'-0"

LATHAN McKEE ARCHITECTS

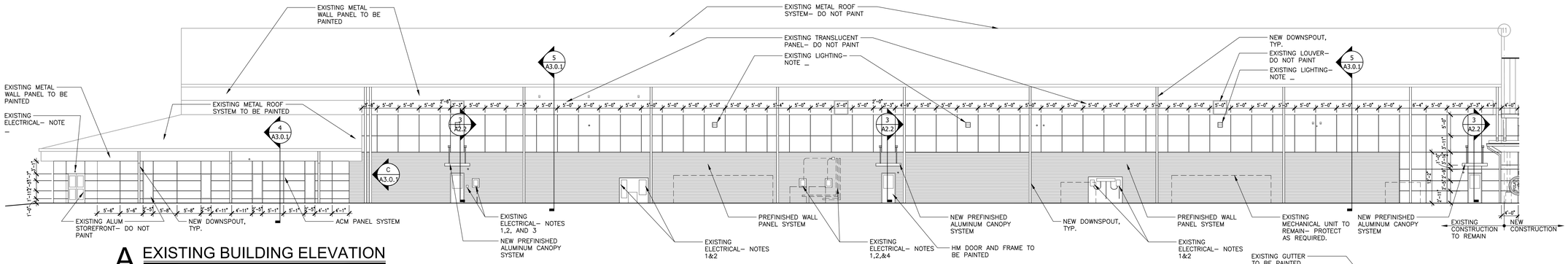
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: DOOR AND WINDOW SCHEDULES

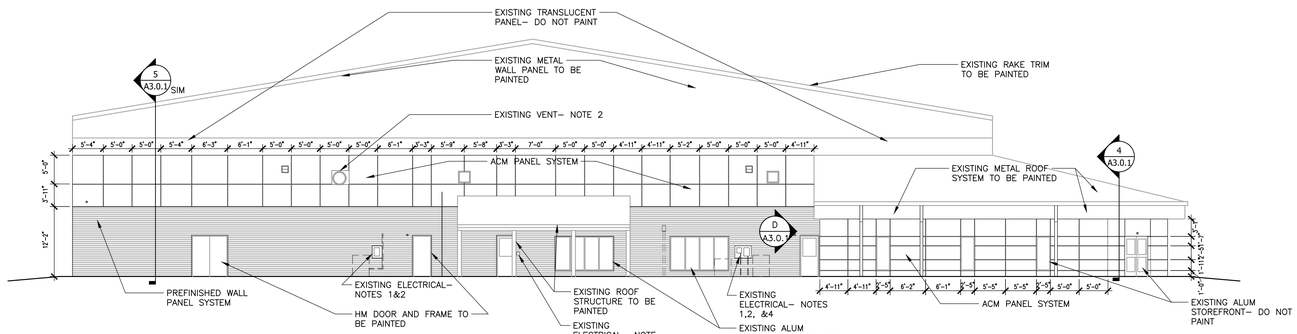
STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A2.4
7 OF 24



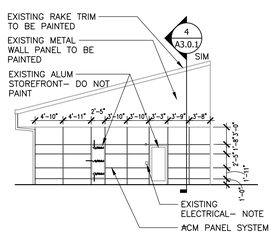
A EXISTING BUILDING ELEVATION
SCALE: 3/32" = 1'–0"



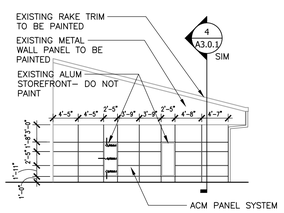
B EXISTING BUILDING ELEVATION
SCALE: 3/32" = 1'–0"

NOTES:

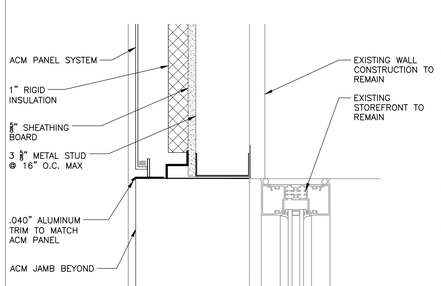
1. ELECTRICAL PANEL BOXES AND SHUT OFFS ARE TO REMAIN IN PLACE.
2. PROVIDE MIN. 6" CLEAR AROUND SHUT OFFS/ PANEL BOXES. UTILIZE DETAILS 1,2, AND 3/ A3.0.1 TO FRAME NEW OPENINGS AROUND COMPONENTS.
3. PROVIDE EXTENSION RINGS AND WIRING AS TO EXTEND DEVICE TO FACE OF NEW WALL SURFACE.
4. EXISTING SURFACE MOUNT CONDUIT/ PANDUIT IS TO REMAIN IN PLACE. FRAME NEW WALL AROUND THESE ITEMS AS REQUIRED.
5. RETURN WALL MATERIALS TO OUTSIDE EDGE OF EXISTING DOOR FRAME OPENINGS SIM. TO DETAILS 2&3
6. PROTECT EXISTING SOD AND LANDSCAPING AS REQUIRED TO REMAIN. DAMAGED LANDSCAPING ITEMS ARE TO BE REPLACED IN LIKE KIND.



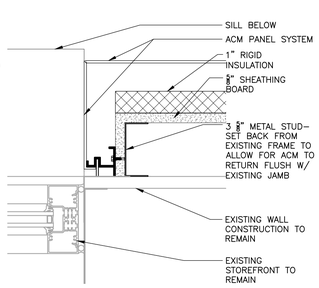
C EXISTING BUILDING ELEVATION
SCALE: 3/32" = 1'–0"



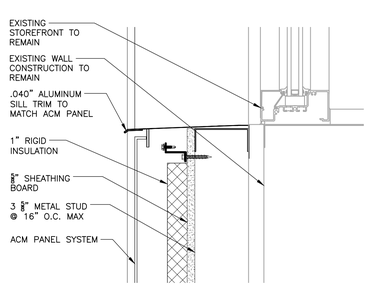
D EXISTING BUILDING ELEVATION
SCALE: 3/32" = 1'–0"



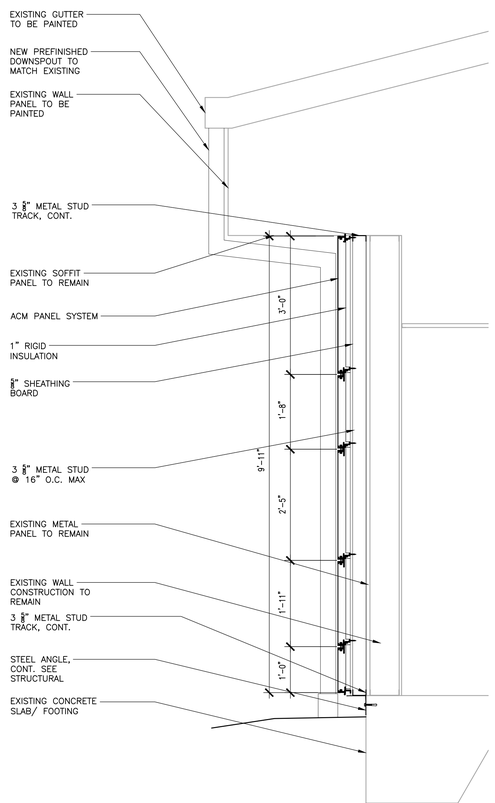
1 DETAIL SECTION
SCALE: 3" = 1'–0" HEAD



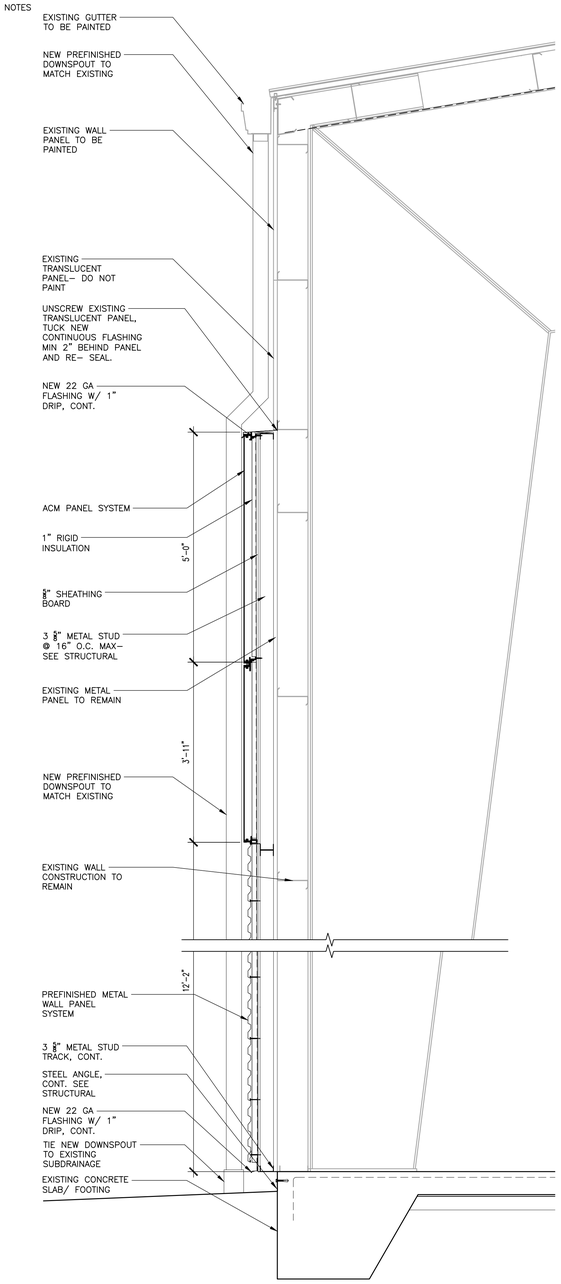
2 DETAIL SECTION
SCALE: 3" = 1'–0" JAMB



3 DETAIL SECTION
SCALE: 3" = 1'–0" SILL



4 WALL SECTION
SCALE: 3/4" = 1'–0"



5 WALL SECTION
SCALE: 3/4" = 1'–0"

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: EXISTING BUILDING ELEVATIONS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A3.0.1
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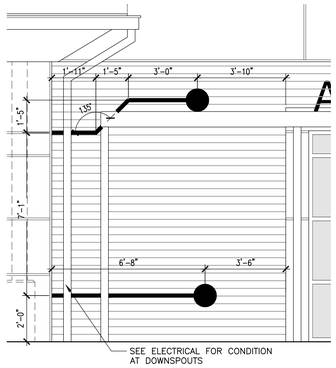
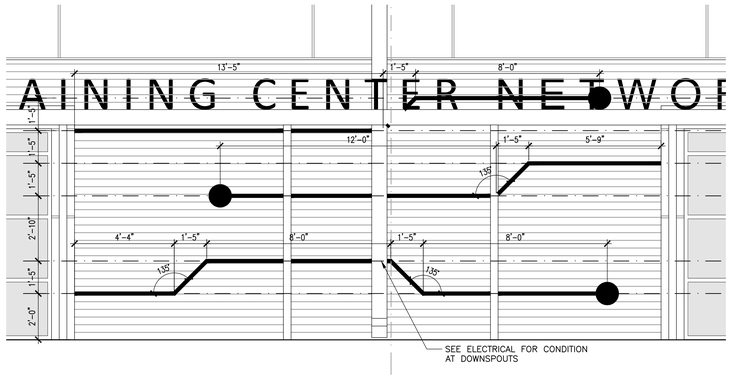


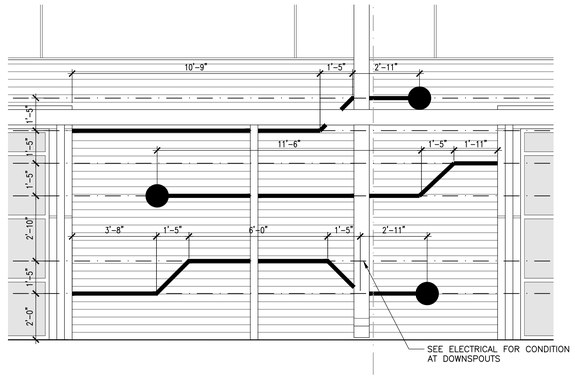
1 LIGHTING DETAIL

SCALE: 3/8" = 1'-0"
NOTE: FOR MANUFACTURER – SEE ELEC.
FOR INSTALLATION AND DETAILS – SEE MANUFACTURER'S INSTRUCTIONS.



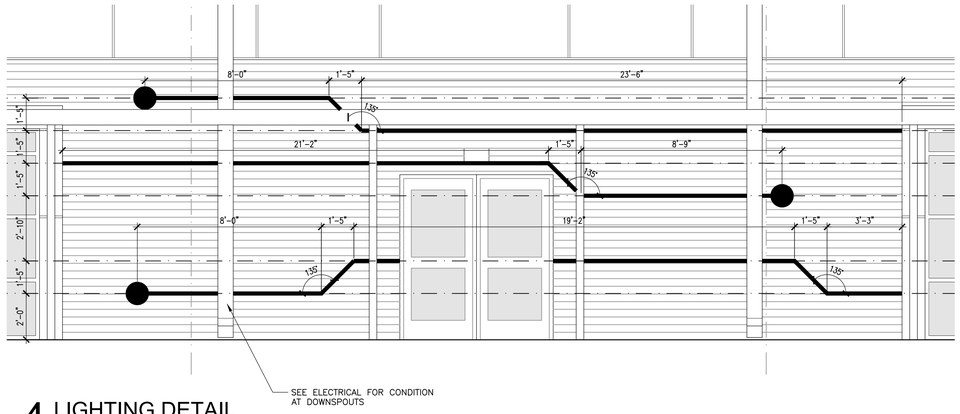
2 LIGHTING DETAIL

SCALE: 3/8" = 1'-0"
NOTE: FOR MANUFACTURER – SEE ELEC.
FOR INSTALLATION AND DETAILS – SEE MANUFACTURER'S INSTRUCTIONS.



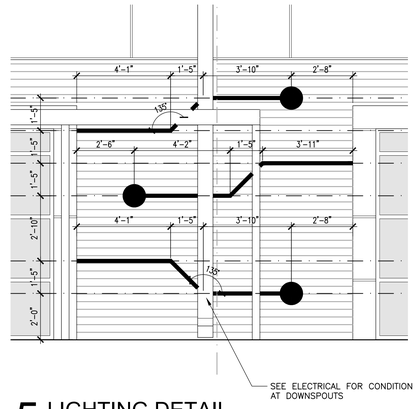
3 LIGHTING DETAIL

SCALE: 3/8" = 1'-0"
NOTE: FOR MANUFACTURER – SEE ELEC.
FOR INSTALLATION AND DETAILS – SEE MANUFACTURER'S INSTRUCTIONS.



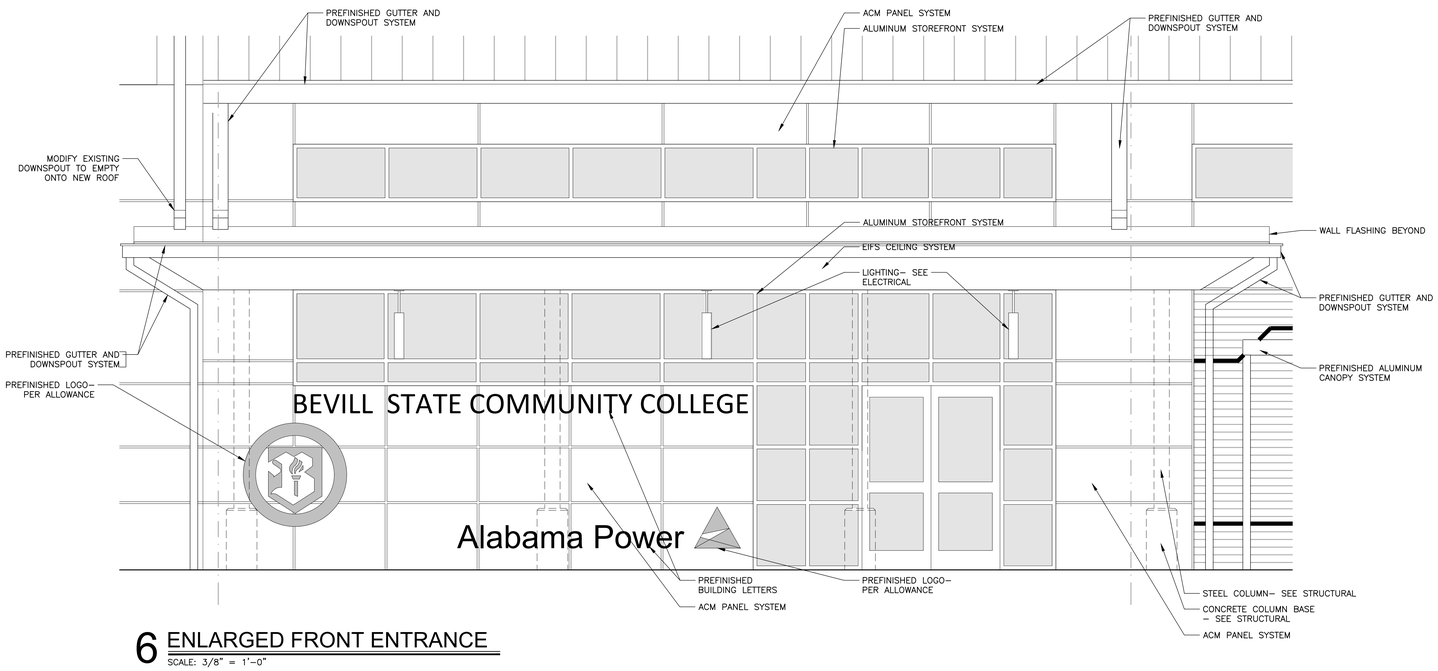
4 LIGHTING DETAIL

SCALE: 3/8" = 1'-0"
NOTE: FOR MANUFACTURER – SEE ELEC.
FOR INSTALLATION AND DETAILS – SEE MANUFACTURER'S INSTRUCTIONS.



5 LIGHTING DETAIL

SCALE: 3/8" = 1'-0"
NOTE: FOR MANUFACTURER – SEE ELEC.
FOR INSTALLATION AND DETAILS – SEE MANUFACTURER'S INSTRUCTIONS.



6 ENLARGED FRONT ENTRANCE

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELEVATION - LIGHTING & ENLARGED DETAILS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A3.0.2
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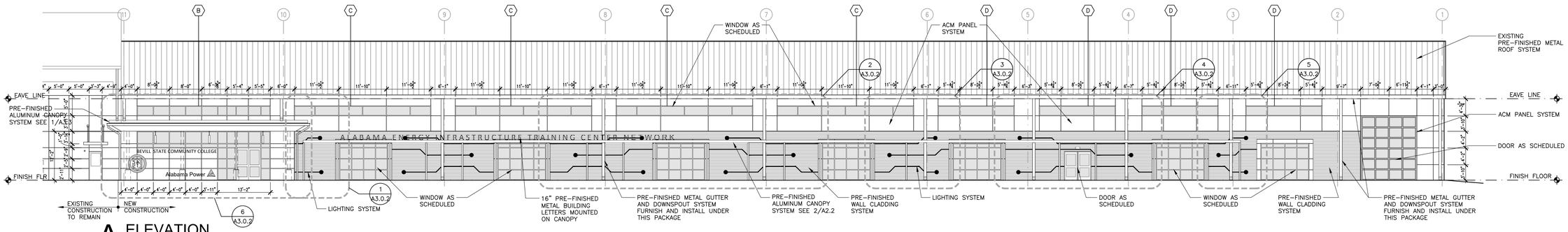
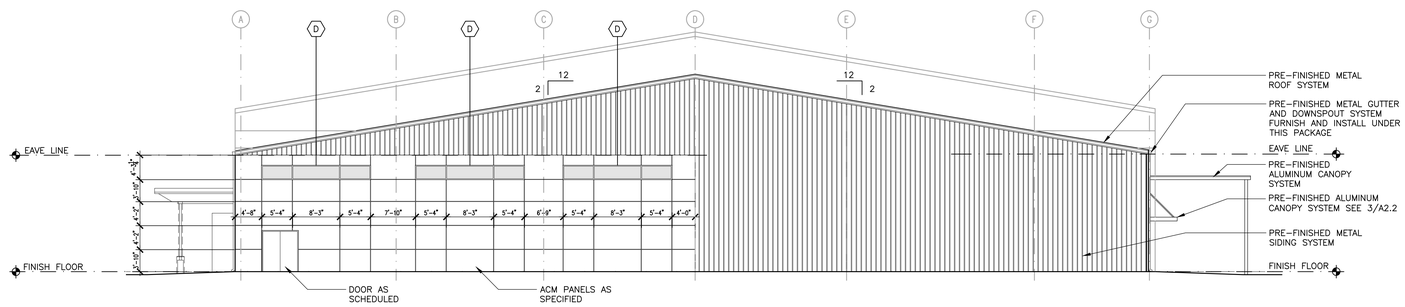


A ELEVATION

SCALE: 3/32" = 1'-0"

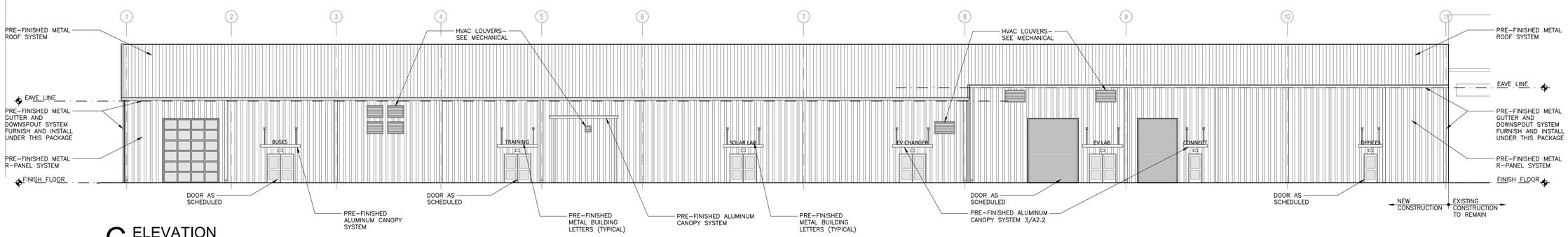
NOTE: ALL WALL CLADDING TO BE CONTRACTOR PROVIDED AND INSTALLED UNDER THIS CONTRACT



B ELEVATION

SCALE: 3/32" = 1'-0"

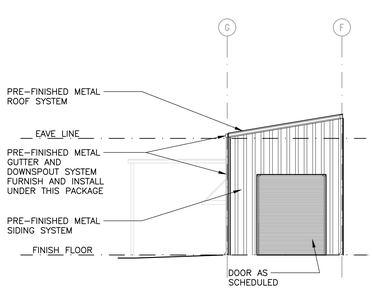
NOTE: ALL WALL CLADDING TO BE CONTRACTOR PROVIDED AND INSTALLED UNDER THIS CONTRACT



C ELEVATION

SCALE: 3/32" = 1'-0"

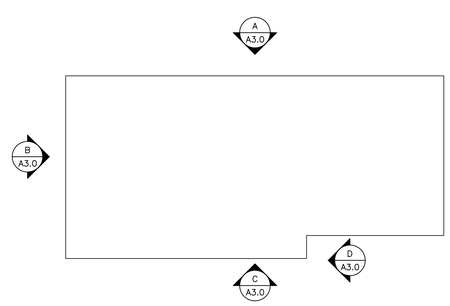
NOTE: PRE-FINISHED METAL R-PANEL MATERIAL HAS BEEN SUPPLIED UNDER PREVIOUS PACKAGE. CONTRACTOR INSTALLATION TO BE INCLUDED IN THIS PACKAGE. (THIS ELEVATION)



D ELEVATION

SCALE: 3/32" = 1'-0"

NOTE: PRE-FINISHED METAL R-PANEL MATERIAL HAS BEEN SUPPLIED UNDER PREVIOUS PACKAGE. CONTRACTOR INSTALLATION TO BE INCLUDED IN THIS PACKAGE. (THIS ELEVATION)



1 CLADDING DIAGRAM

SCALE: N.T.S.

CLADDING MATRIX

A – ALL EXTERIOR WALL CLADDING AND WALL INSULATION MATERIAL INDICATED SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT.

B – ALL EXTERIOR WALL CLADDING AND INSULATION MATERIAL INDICATED SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT.

C – ALL EXTERIOR WALL CLADDING AND INSULATION MATERIAL HAS BEEN PROVIDED UNDER PREVIOUS CONTRACT. CONTRACTOR SHALL INSTALL ALL STORED MATERIAL UNDER THIS CONTRACT.

D – ALL EXTERIOR WALL CLADDING AND INSULATION MATERIAL HAS BEEN PROVIDED UNDER PREVIOUS CONTRACT. CONTRACTOR SHALL INSTALL ALL STORED MATERIAL UNDER THIS CONTRACT.

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

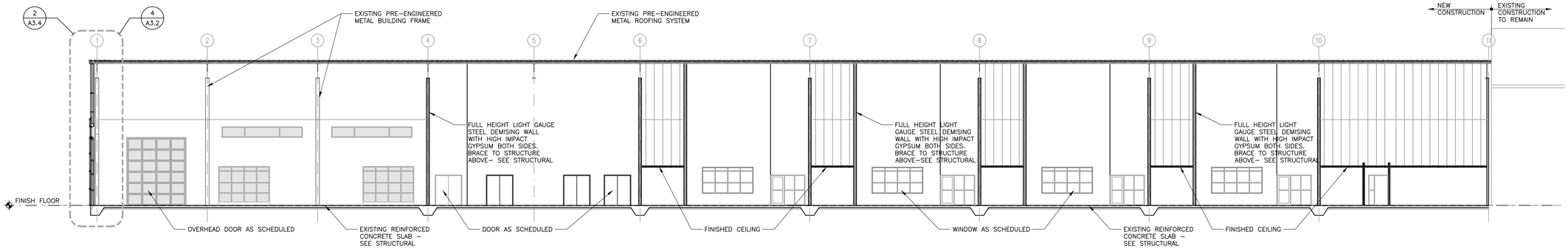
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: BUILDING ELEVATIONS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

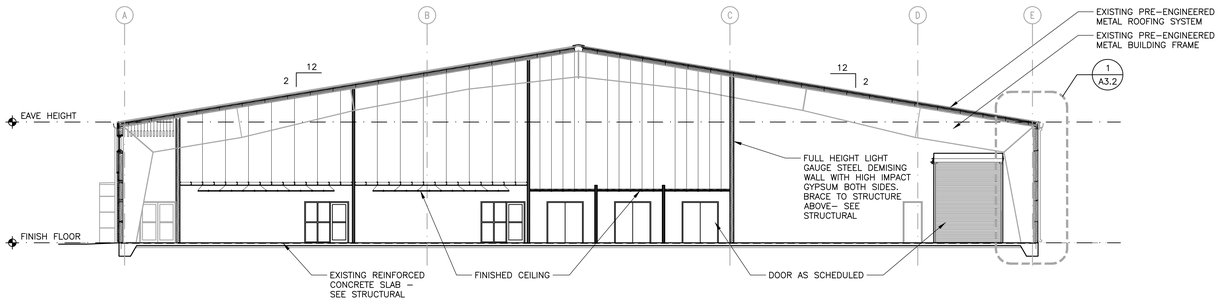
PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A3.0
8 OF 24



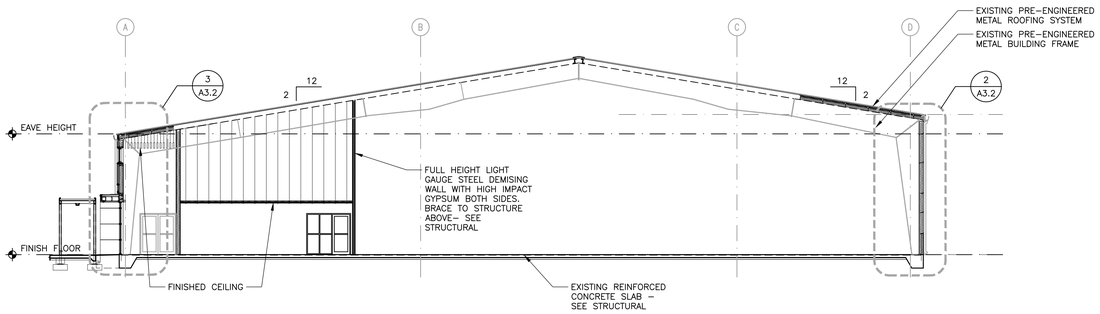
1 BUILDING SECTION

SCALE: 3/32" = 1'-0"



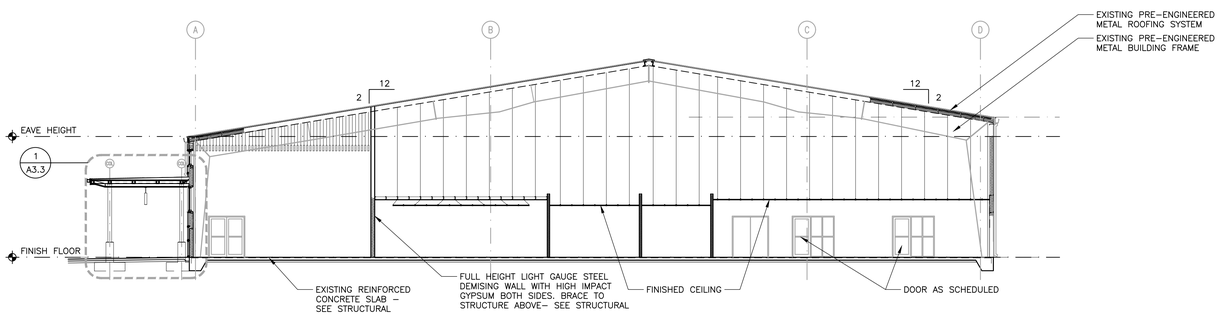
2 BUILDING SECTION

SCALE: 3/32" = 1'-0"



3 BUILDING SECTION

SCALE: 3/32" = 1'-0"



4 BUILDING SECTION

SCALE: 3/32" = 1'-0"

NOTE:
BUILDING WALL INSULATION TO BE INSTALLED @ FULL PERIMETER OF NEW BUILDING - FULL LENGTH AND FULL HEIGHT OF ALL EXTERIOR WALLS.

LATHAN McKEE ARCHITECTS

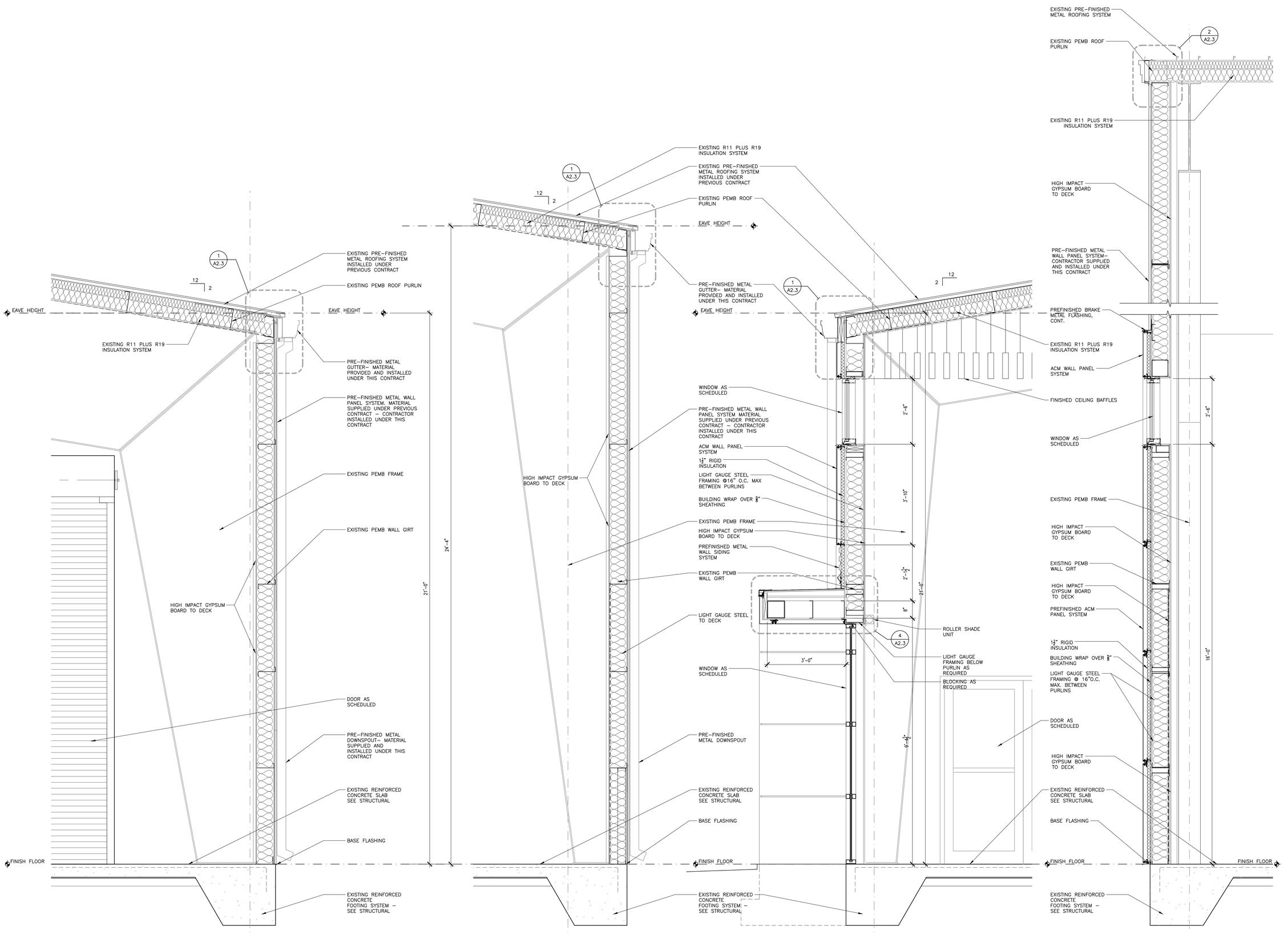
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: BUILDING SECTIONS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A3.1
11 OF 24



1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

3 WALL SECTION
SCALE: 3/4" = 1'-0"

4 WALL SECTION
SCALE: 3/4" = 1'-0"

LATHAN McKEE ARCHITECTS

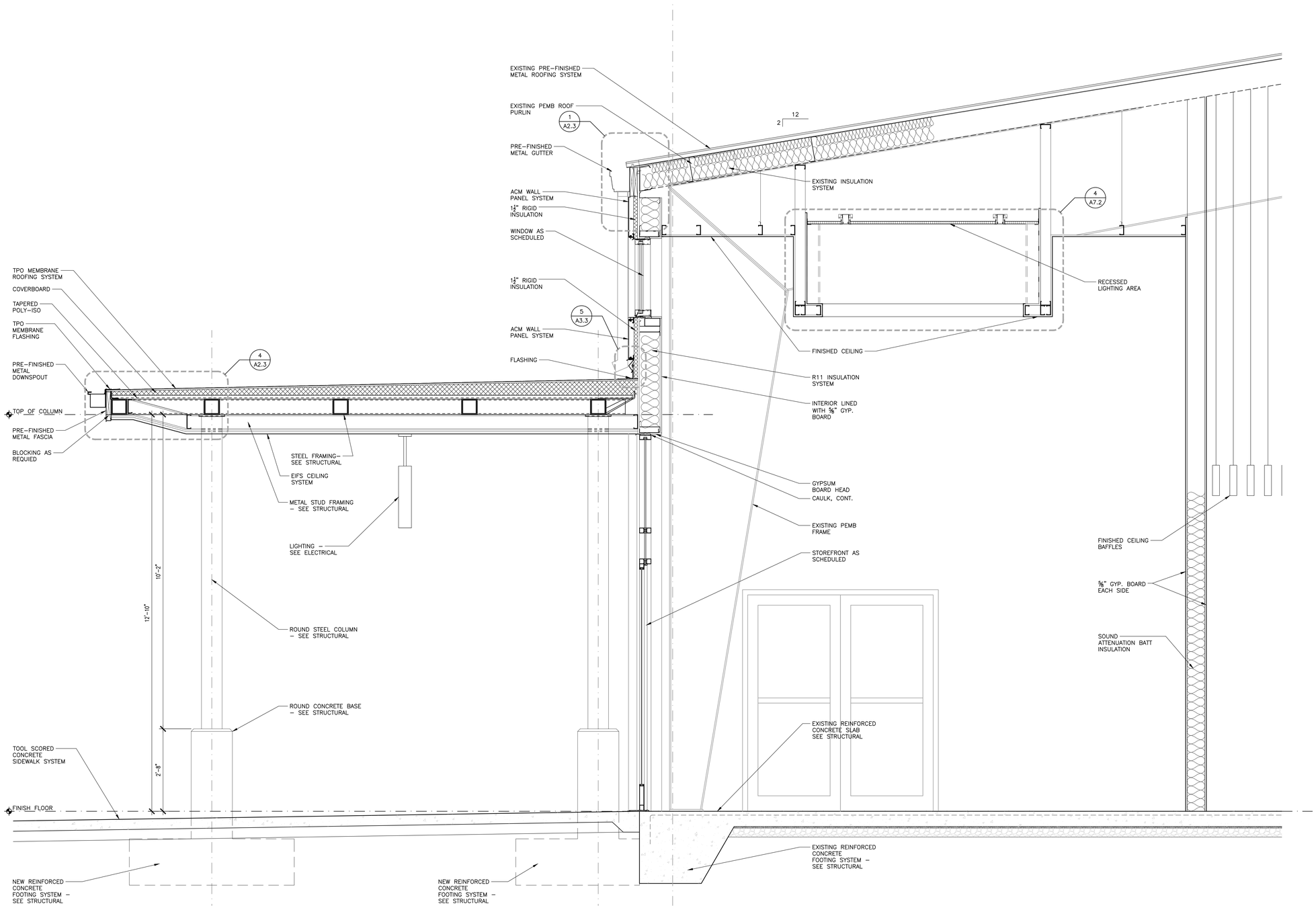
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: WALL SECTIONS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A3.2
12 OF 24



1 WALL SECTION

SCALE: 3/4" = 1'-0"

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: WALL SECTIONS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA

DRAWN: JWW

DATE: 12.19.25

REVISIONS

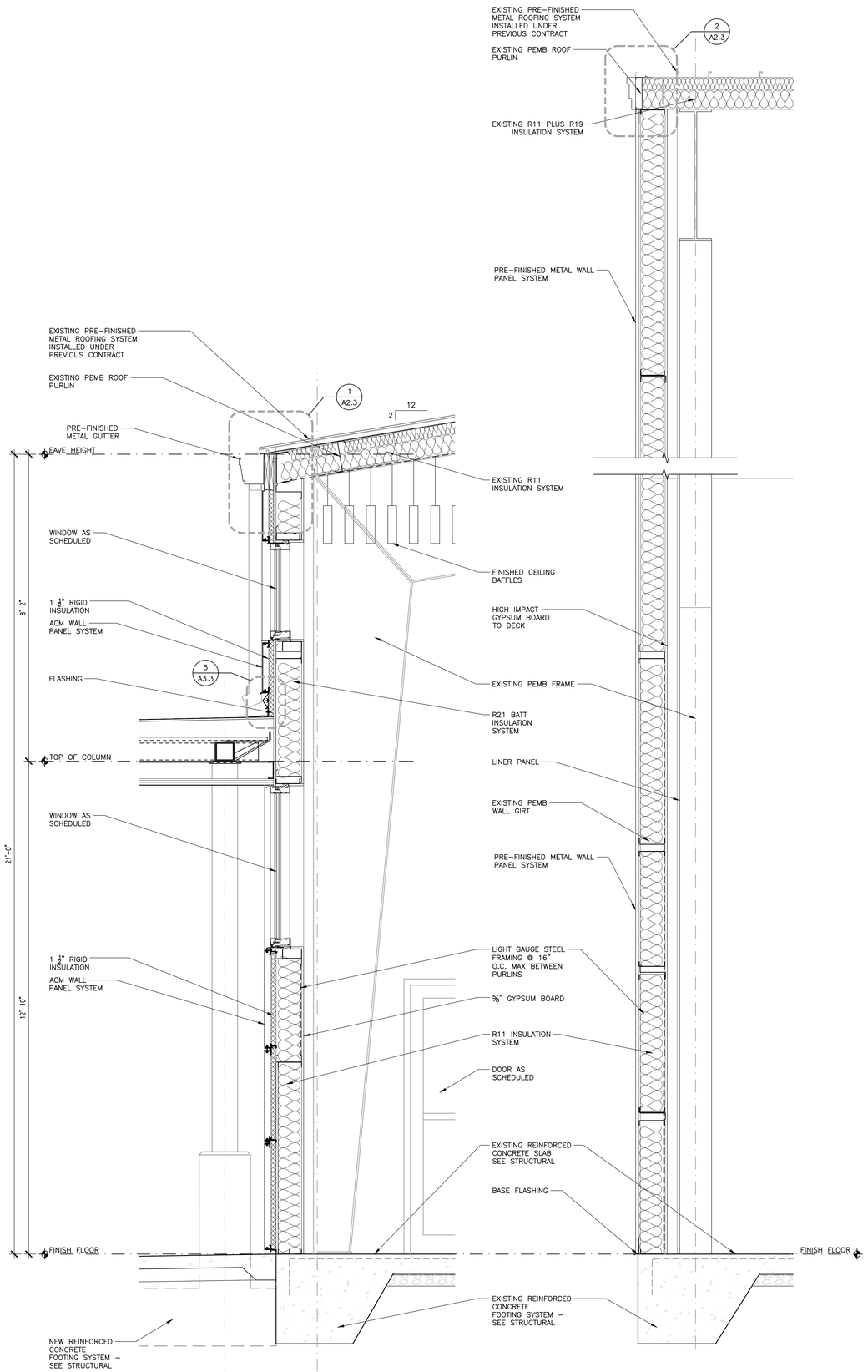
JOB NO. 24-40C

SHEET NO:

A3.3

13 OF 24

0 1" 2"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

LATHAN McKEE ARCHITECTS

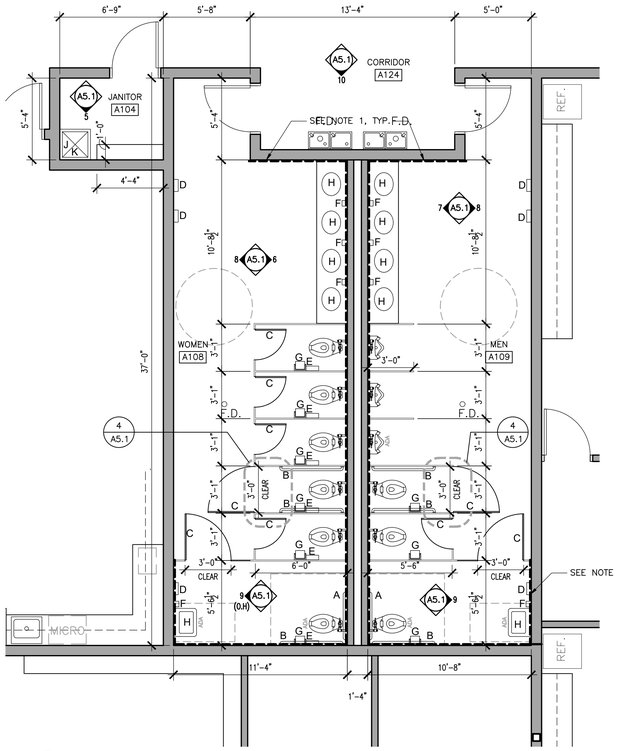
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: WALL SECTIONS

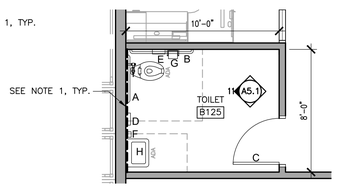
STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: JWW
DATE: 12.19.25
REVISIONS

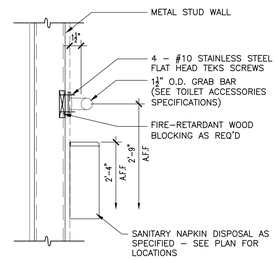
JOB NO. 24-40C
SHEET NO:
A3.4
14 OF 24
0 1" 2"



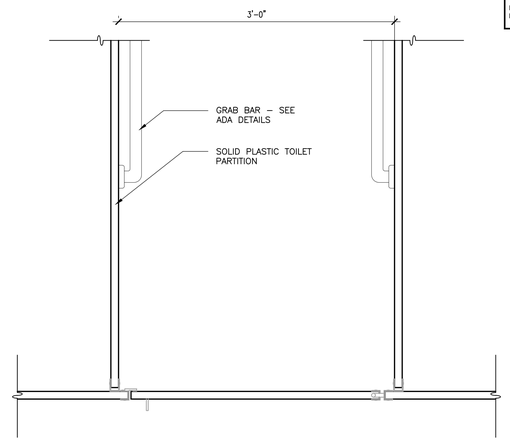
1 ENLARGED TOILET PLAN @ JANITOR A104, WOMENS A108, MENS A109, AND CORRIDOR A124
SCALE: 1/4" = 1'-0"



2 ENLARGED TOILET PLAN @ TOILET B125
SCALE: 1/4" = 1'-0"



3 DETAIL @ GRAB BAR WITH SANITARY NAPKIN AT METAL STUD
SCALE: 1–1/2" = 1'–0"

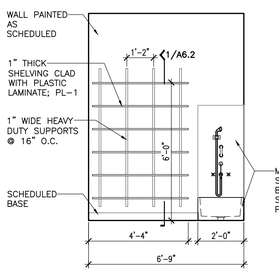


4 DETAIL @ AMBULATORY STALL (PARTITION)
SCALE: 1–1/2" = 1'–0"

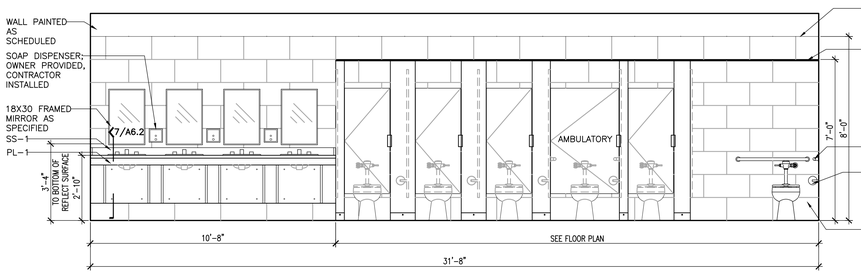
TOILET ACCESSORY LEGEND

A	36" S.S. GRAB BAR
B	42" S.S. GRAB BAR
C	COAT HOOK (MOUNTED ON INTERIOR STALL DOOR)
D	PAPER TOWEL DISPENSER - OWNER PROVIDED, CONTRACTOR INSTALLED
E	FEMININE NAPKIN DISPOSAL
F	SOAP DISPENSER - OWNER PROVIDED, CONTRACTOR INSTALLED
G	TOILET TISSUE DISPENSER - OWNER PROVIDED, CONTRACTOR INSTALLED
H	FRAMED MIRROR 18" X 30"
J	MOP RACK
K	MOP SINK

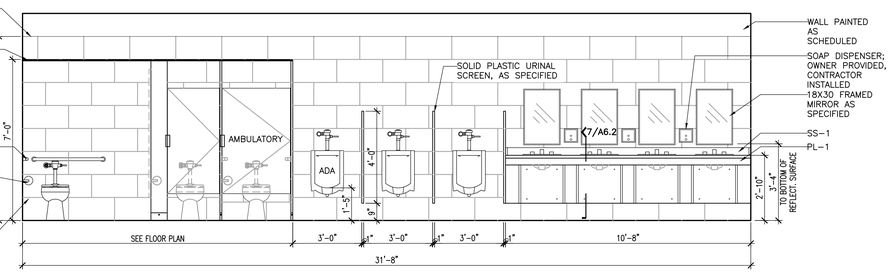
NOTE:
1. DASHED LINE INDICATES PORCELAIN WALL TILE, PWT, AS INDICATED ON FINISH SCHEDULE. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF TILE



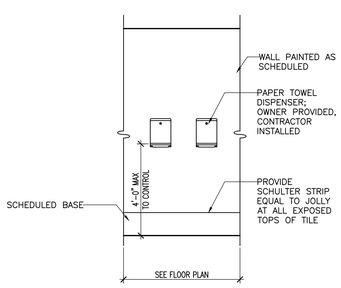
5 INTERIOR ELEVATION @ JANITOR A104
SCALE: 3/8" = 1'–0"



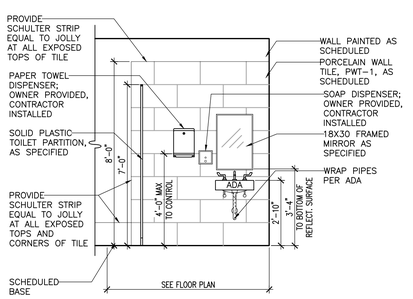
6 INTERIOR ELEVATION @ WOMENS A108
SCALE: 3/8" = 1'–0"



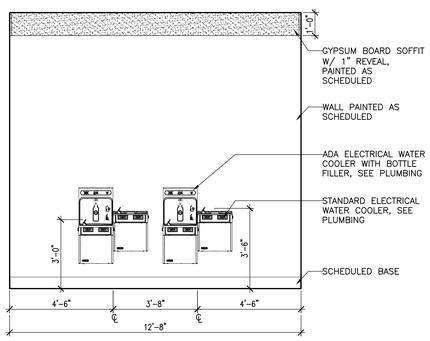
7 INTERIOR ELEVATION @ MENS A109
SCALE: 3/8" = 1'–0"



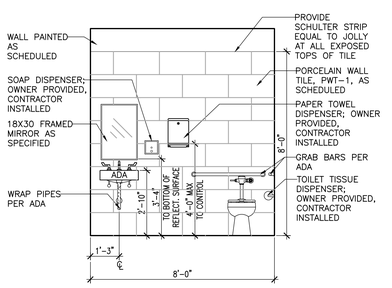
8 INTERIOR ELEVATION @ WOMENS A108 AND MENS A109
SCALE: 3/8" = 1'–0"



9 INTERIOR ELEVATION @ WOMENS A108 AND MENS A109
SCALE: 3/8" = 1'–0"



10 INTERIOR ELEVATION @ CORRIDOR A124
SCALE: 3/8" = 1'–0"



11 INTERIOR ELEVATION @ TOILET B123
SCALE: 3/8" = 1'–0"

LATHAN McKEE ARCHITECTS

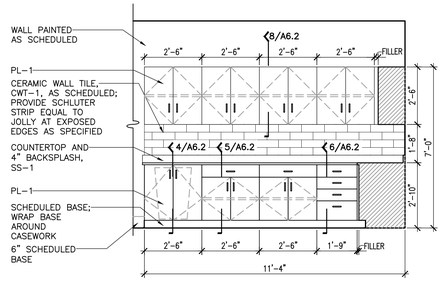
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ENLARGED TOILET PLANS, LEGEND, INTERIOR ELEVATIONS, AND DETAILS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

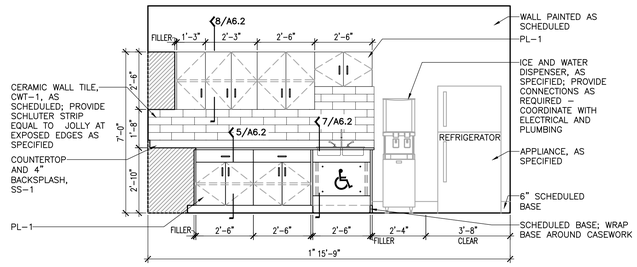
PROJ. MGR.: S. CALMA
DRAWN: K.JOINER
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A5.1
15 OF 24



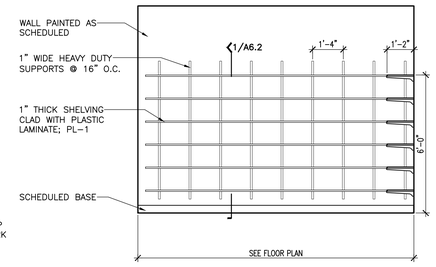
1 INTERIOR ELEVATION @ BREAK ROOM A103

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



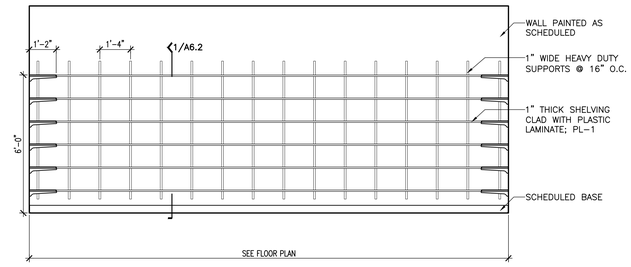
2 INTERIOR ELEVATION @ BREAK ROOM A103

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



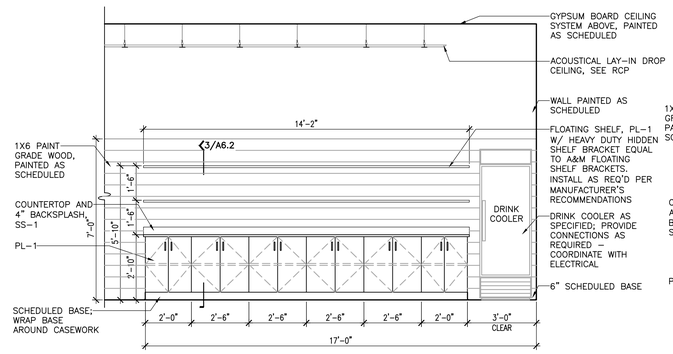
3 INTERIOR ELEVATION @ STORAGE A105

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



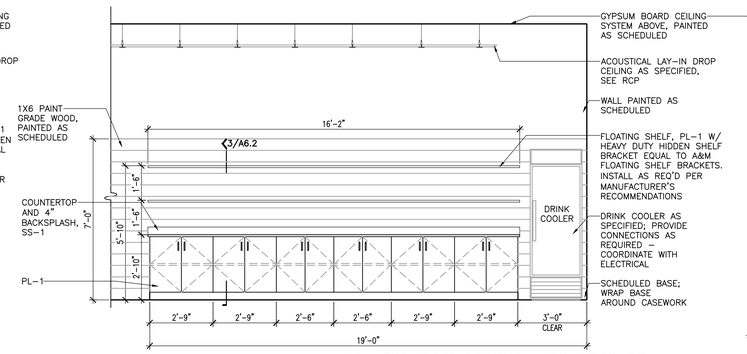
4 INTERIOR ELEVATION @ STORAGE A105

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



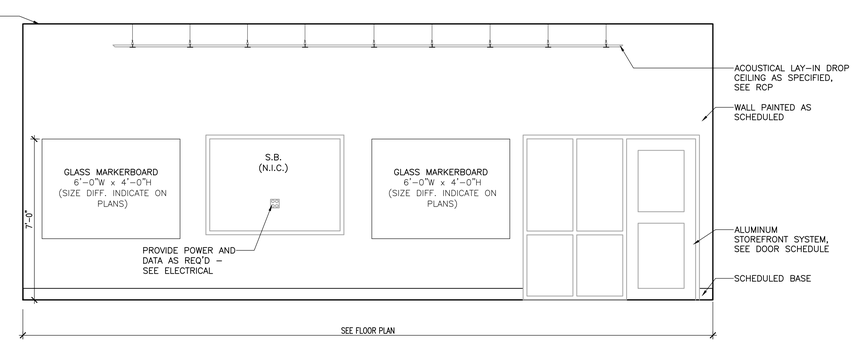
5 INTERIOR ELEVATION @ SOLAR CLASSROOM A111, EV CLASSROOM A117, EV CHARGER CLASSROOM B100, AND CONNECTIVITY CLASSROOM B106

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



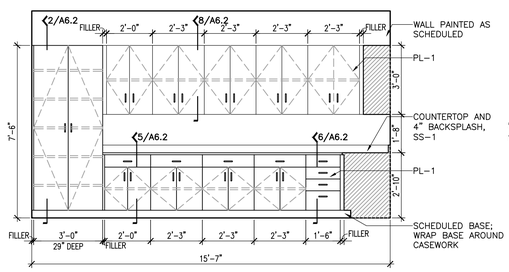
6 INTERIOR ELEVATION @ DUAL ENROLLMENT SOLAR CLASSROOM A113, DUAL ENROLLMENT EV CLASSROOM A119, AND DUAL ENROLLMENT EV CHARGER CLASSROOM B102

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



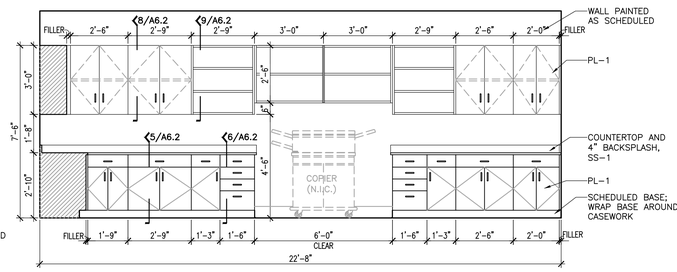
7 INTERIOR ELEVATION @ TYPICAL CLASSROOM GLASS MAKERBOARD/TV

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



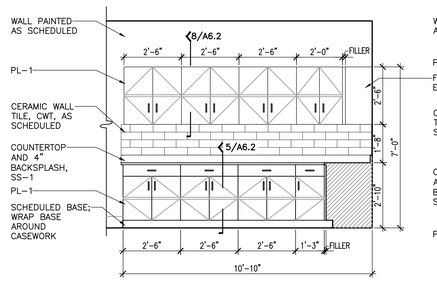
8 INTERIOR ELEVATION @ COPIER/OFFICE SUPPLIES B124

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



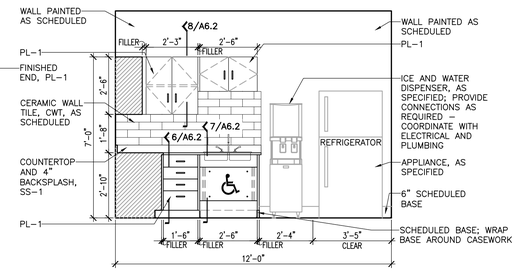
9 INTERIOR ELEVATION @ COPIER/OFFICE SUPPLIES B124

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



10 INTERIOR ELEVATION @ KITCHENETTE B125

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



11 INTERIOR ELEVATION @ KITCHENETTE B125

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

LATHAN McKEE ARCHITECTS

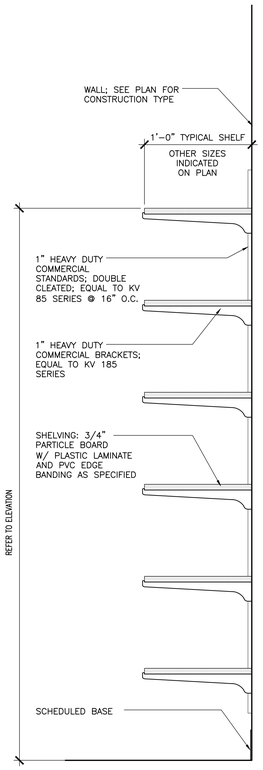
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: INTERIOR ELEVATIONS

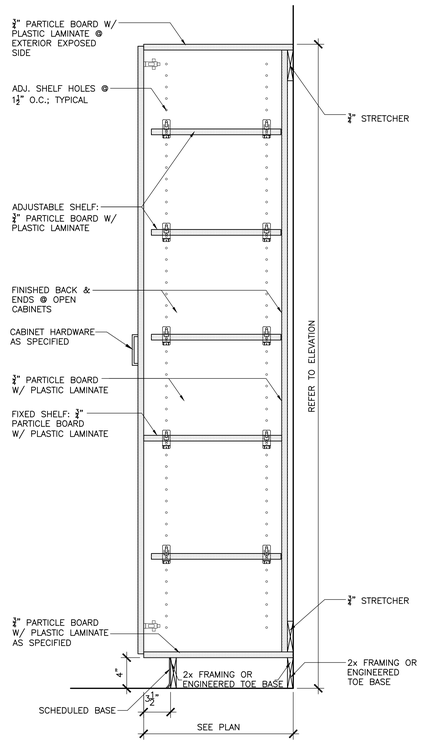
STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: K.JOINER
DATE: 12.19.25
REVISIONS

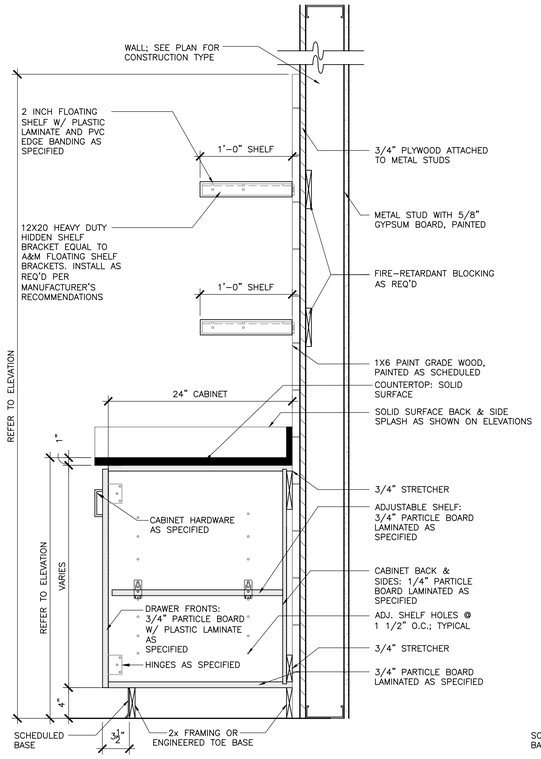
JOB NO. 24-40C
SHEET NO:
A6.1
16 OF 24



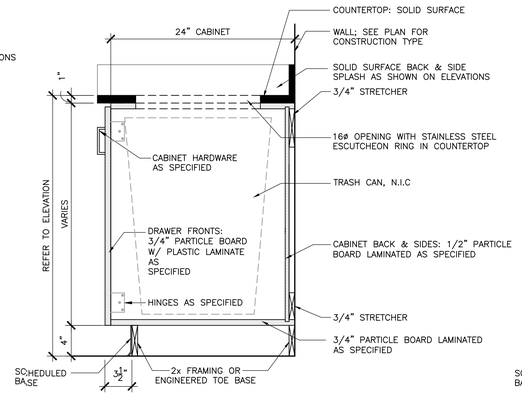
1 DETAIL @ ADJUSTABLE SHELVING
SCALE: 1-1/2" = 1'-0"



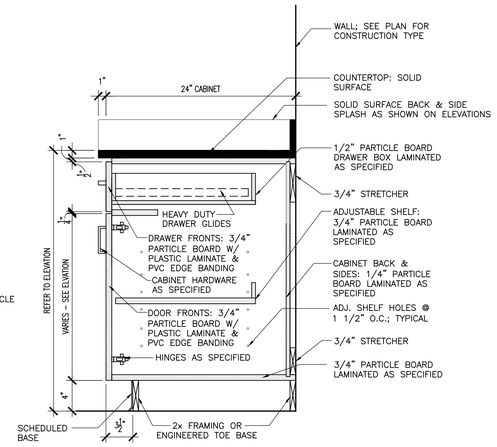
2 DETAIL @ TALL STORAGE WITH ADJUSTABLE SHELVING
SCALE: 1-1/2" = 1'-0"



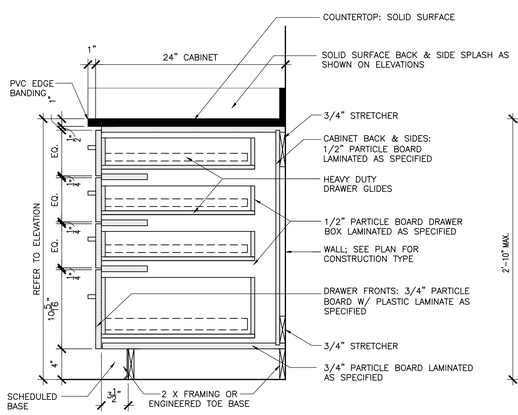
3 DETAIL @ BASE CABINET WITH FLOAT SHELVES
SCALE: 1-1/2" = 1'-0"



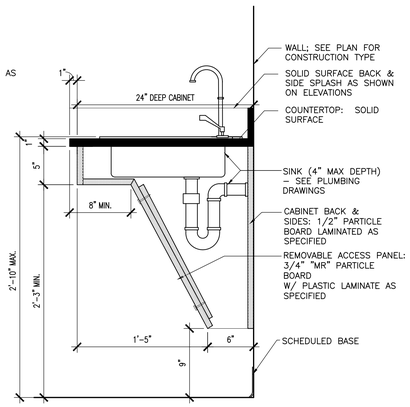
4 DETAIL @ BASE CABINET WITH TRASH CAN
SCALE: 1-1/2" = 1'-0"



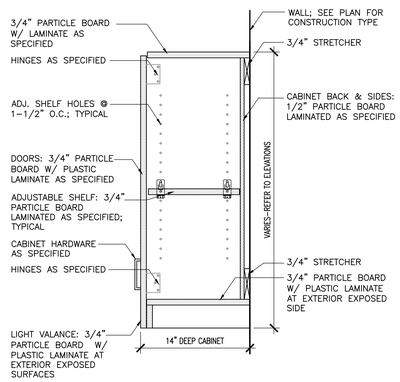
5 DETAIL @ BASE CABINET WITH DRAWER
SCALE: 1-1/2" = 1'-0"



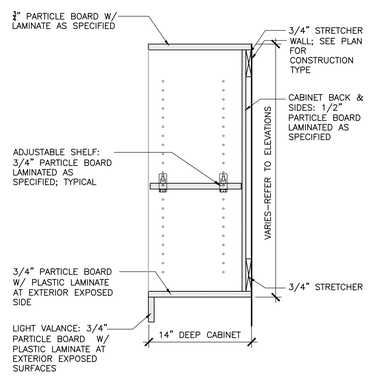
6 DETAIL @ 4-DRAWER BASE
SCALE: 1-1/2" = 1'-0"



7 DETAIL @ ADA SINK BASE
SCALE: 1-1/2" = 1'-0"



8 DETAIL @ TYPICAL UPPER CABINET
SCALE: 1-1/2" = 1'-0"



9 DETAIL @ OPEN UPPER
SCALE: 1-1/2" = 1'-0"

NOTE: PROVIDE QUANTITY OF SHELVES INDICATED ON INTERIOR ELEVATIONS

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: DETAILS

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: K.JOINER
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A6.2
17 OF 24

CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
GB - GYPSUM BOARD	90 = 9'-0" AFF
L1 - 2 x 2 LAY-IN ACOUSTIC CEILING TILE; SEE SPEC	96 = 9'-6" AFF
L5 - 4 x 4 LAY-IN METAL CEILING TILE; SEE SPEC	100 = 10'-0" AFF
R - 1" REVEAL AT ALL GYPSUM SOFFITS; HORIZONTAL AS SHOWN, EXTEND VERTICAL - PAINTED TO MATCH SOFFIT	110 = 11'-0" AFF
ML - MOISTURE RESISTANT LAY-IN, SEE SPEC	120 = 12'-0" AFF
ESA - EXPOSED STRUCTURE ABOVE; PAINTED	160 = 15'-0" AFF
ERS - ELECTRIC ROLLER SHADES, SEE SPEC	187 = 18'-7" AFF
AB - ACOUSTICAL BAFFLES, SEE SPECS	190 = 19'-0" AFF

REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS

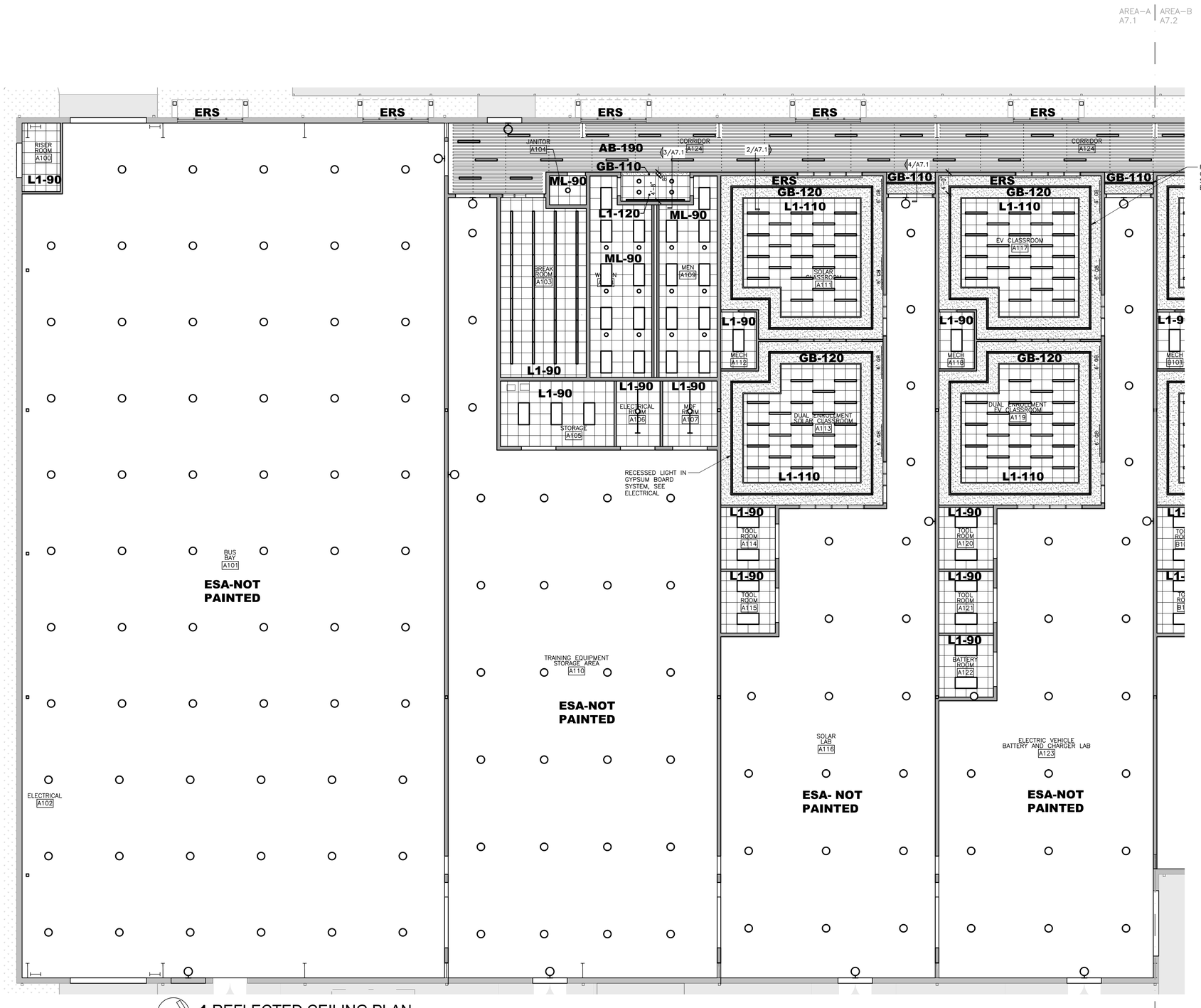
CEILING TYPE — L1-90 — CEILING HEIGHT

CEILING NOTES

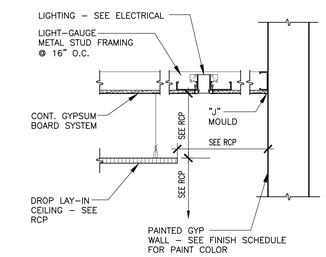
- AFF = ABOVE FINISH FLOOR
- ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR
- CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.
- ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS SHOWN OR NOTED OTHERWISE
- USE 2x4 LAY-IN CEILING TILES CUT TO FIT AT ALL LOCATIONS LESS THAN 12" AT PERIMETER OF ROOM. WHERE 2x4 TILES OCCUR THEY SHALL MATCH SPECIFIED TILE AS INDICATED FOR EACH ROOM.
- COORDINATE W/ PLUMBING, MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS

LIGHTING/ELECTRICAL NOTES

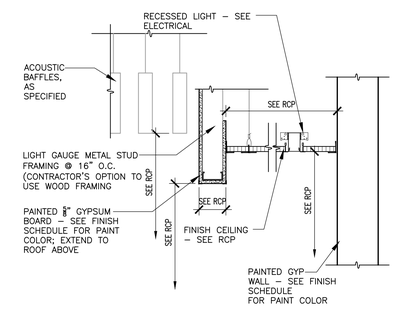
- COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS. CONTACT ARCHITECT WITH ANY DISCREPANCIES



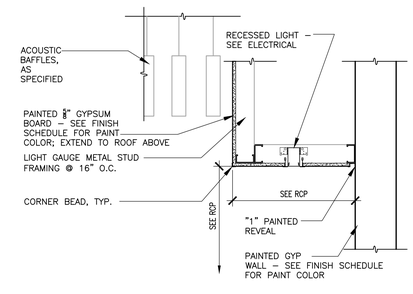
1 REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"
AREA A



2 DETAIL @ GYP CEILING WITH DROP LAY–IN CEILING
SCALE: 1" = 1'–0"



3 DETAIL @ LAY–IN CEILING W/ RECESSED LIGHT AT GYP SOFFIT AND ESA
SCALE: 1" = 1'–0"



4 DETAIL @ GYP CEILING W/ RECESSED LIGHT AT ESA
SCALE: 1" = 1'–0"

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: REFLECTED CEILING PLAN, LEGEND, AND DETAILS - AREA A

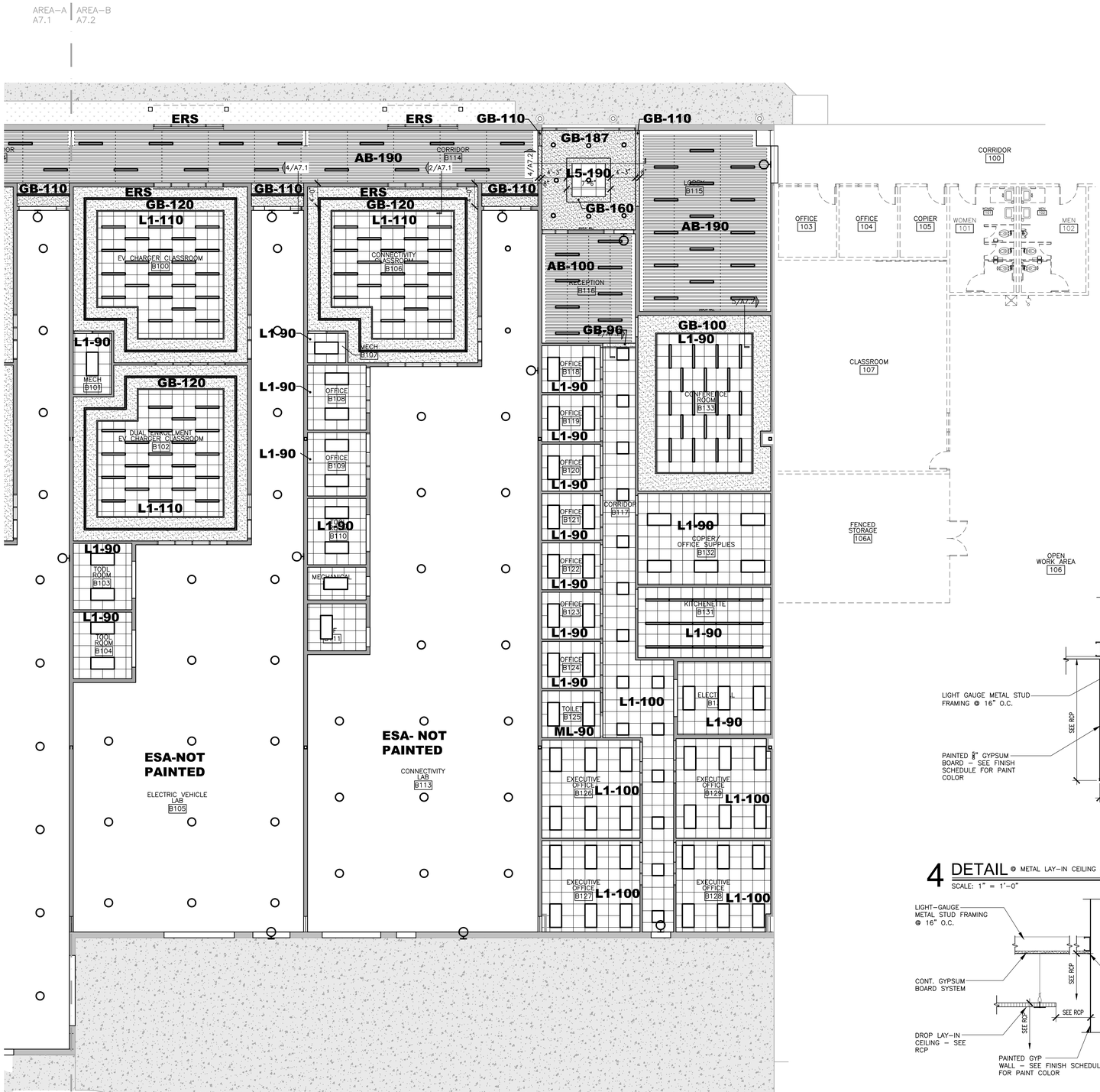
STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.:	S. CALMA
DRAWN:	K.JOINER
DATE:	12.19.25
REVISIONS	

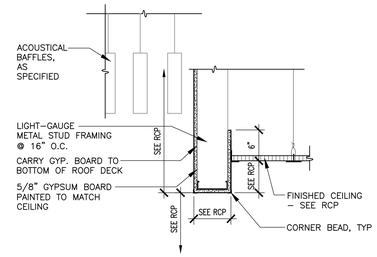
JOB NO. 24-40C

SHEET NO:

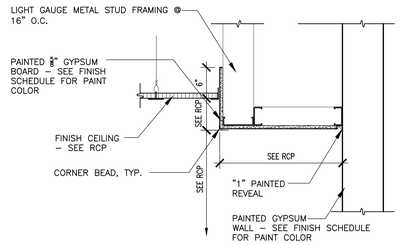
A7.1



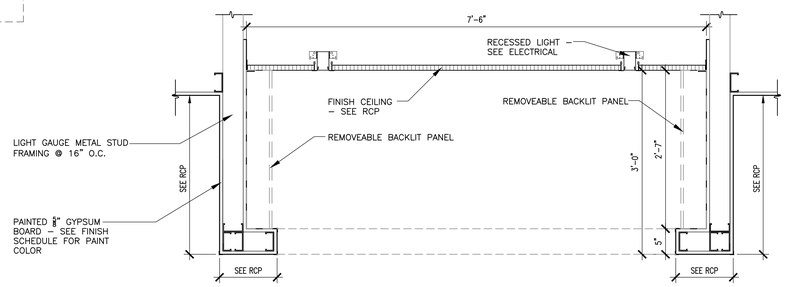
1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'–0"
AREA B



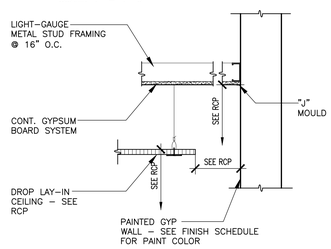
2 DETAIL @ SOFFIT WITH LAY–IN AND ESA
SCALE: 1" = 1'–0"



3 DETAIL @ SOFFIT WITH LAY–IN AT GYPSUM WALL
SCALE: 1" = 1'–0"



4 DETAIL @ METAL LAY–IN CEILING WITH GYP SOFFIT ON BOTH SIDES AT ESA
SCALE: 1" = 1'–0"



5 DETAIL @ GYP CEILING WITH DROP DOWN LAY–IN CEILING
SCALE: 1" = 1'–0"

CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
GB - GYPSUM BOARD	90 = 9'-0" AFF
L1 - 2 x 2 LAY-IN ACOUSTIC CEILING TILE; SEE SPEC	96 = 9'-6" AFF
L5 - 4 x 4 LAY-IN METAL CEILING TILE; SEE SPEC	100 = 10'-0" AFF
R - 1" REVEAL AT ALL GYPSUM SOFFITS; HORIZONTAL AS SHOWN, EXTEND VERTICAL - PAINTED TO MATCH SOFFIT	110 = 11'-0" AFF
ML - MOISTURE RESISTANT LAY-IN, SEE SPEC	120 = 12'-0" AFF
ESA - EXPOSED STRUCTURE ABOVE; PAINTED	160 = 15'-0" AFF
ERS - ELECTRIC ROLLER SHADES, SEE SPEC	187 = 18'-7" AFF
AB - ACOUSTICAL BAFFLES, SEE SPECS	190 = 19'-0" AFF
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS CEILING TYPE —— L1-90 CEILING HEIGHT	

CEILING NOTES

- AFF = ABOVE FINISH FLOOR
- ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR
- CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.
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- COORDINATE W/ PLUMBING, MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS

LIGHTING/ELECTRICAL NOTES

- COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS. CONTACT ARCHITECT WITH ANY DISCREPANCIES

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: REFLECTED CEILING PLAN, LEGEND, AND DETAILS - AREA B

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
DRAWN: K.JOINER
DATE: 12.19.25
REVISIONS

JOB NO. 24-40C
SHEET NO:
A7.2
19 OF 24

FINISH PATTERN LEGEND

SC — SC SEALED CONCRETE	LVT-1 LUXURY VINYL TILE
ERF-1 EPOXY RESIN FLOOR	PFT-1 PORCELAIN FLOOR TILE
PFT-2 PORCELAIN FLOOR TILE	CPT-1 CARPET
CPT-2 CARPET	CPT-3 CARPET

NOTE: CORNER GUARDS, CG, SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL GYPSUM WALL CORNERS. SEE FINISH SCHEDULE FOR COLOR SELECTION

AREA-A A8.1 | AREA-B A8.2

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FINISH FLOOR PLAN AND LEGEND - AREA A

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA
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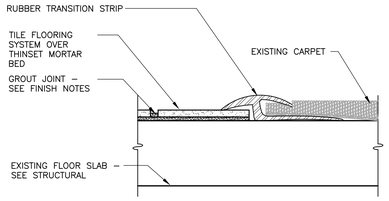
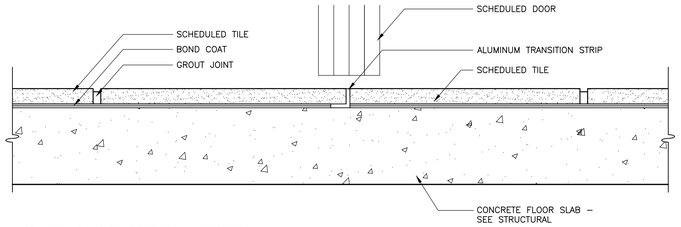
JOB NO. 24-40C
SHEET NO:
A8.1
20 OF 24



2 FLOOR TRANSITION @ EXISTING CARPET TO NEW TILE
NOT TO SCALE

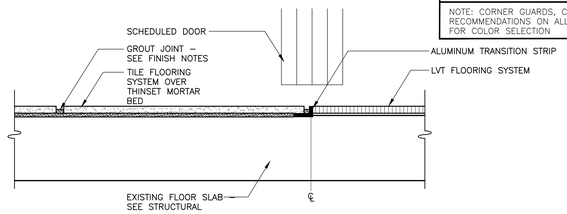


3 FLOOR TRANSITION @ TILE TO TILE
NOT TO SCALE

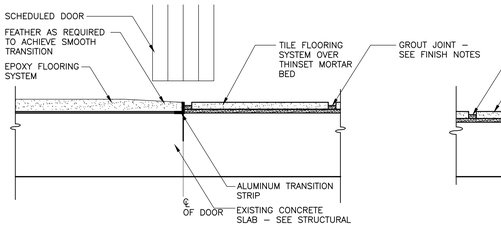
FINISH PATTERN LEGEND

SC — SC SEALED CONCRETE	LVT-1 LUXURY VINYL TILE
ERF-1 EPOXY RESIN FLOOR	PFT-1 PORCELAIN FLOOR TILE
PFT-2 PORCELAIN FLOOR TILE	CPT-1 CARPET
CPT-2 CARPET	CPT-3 CARPET

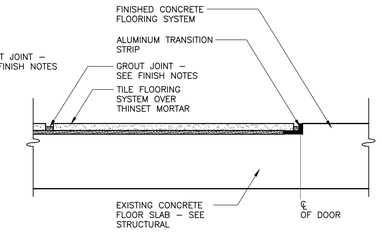
NOTE: CORNER GUARDS, CG, SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL GYPSUM WALL CORNERS. SEE FINISH SCHEDULE FOR COLOR SELECTION



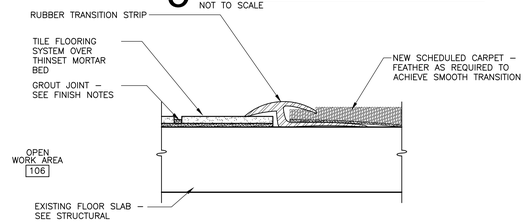
4 FLOOR TRANSITION @ TILE TO LVT
NOT TO SCALE



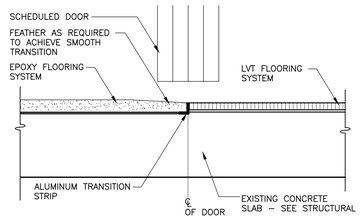
5 FLOOR TRANSITION @ TILE TO EPOXY
NOT TO SCALE



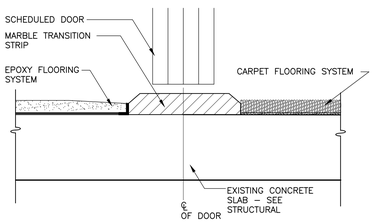
6 FLOOR TRANSITION @ TILE TO CONCRETE
NOT TO SCALE



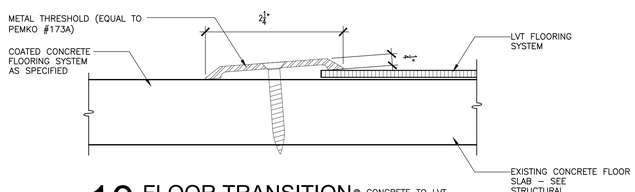
7 FLOOR TRANSITION @ TILE TO CARPET
NOT TO SCALE



8 FLOOR TRANSITION @ EPOXY TO LVT
NOT TO SCALE



9 FLOOR TRANSITION @ EPOXY TO CARPET
NOT TO SCALE



10 FLOOR TRANSITION @ CONCRETE TO LVT
NOT TO SCALE

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FINISH FLOOR PLAN, LEGEND, AND DETAILS - AREA B

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.:	S. CALMA
DRAWN:	K.JOINER
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C
SHEET NO:
A8.2
21 OF 24

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	MILLWORK FACE	MILLWORK TOP	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	DOOR FRAME	CEILING/SOFFIT/ ACCENT PAINT	NOTES
AREA A												
A100	RISER ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A101	BUS BAY	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A102	ELECTRICAL	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A103	BREAK ROOM	LVT-1	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A104	JANITOR	SC	NO BASE	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A105	STORAGE	ERF-1	RB-2	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A106	ELECTRICAL ROOM	SC	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A107	MDF ROOM	SC	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A108	WOMEN	PFT-2	PFT-2	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WALLS
A109	MEN	PFT-2	PFT-2	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WALLS
A110	TRAINING EQUIP. STOR. AREA	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A111	SOLAR CLASSROOM	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
A112	MECHANICAL	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A113	DUAL ENROLLMENT SOLAR	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
A114	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A115	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A116	SOLAR LAB	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A117	EV CLASSROOM	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
A118	MECHANICAL	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A119	DUAL ENROLLMENT EV	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
A120	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A121	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A122	BATTERY ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A123	EV BATTERY & CHARGER LAB	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A124	CORRIDOR	PFT-1/CPT-2/3	PFT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		CUSTOM INSET ENTRY CARPET, CPT-2 TO CPT-8
AREA B												
B100	EV CHARGER CLASSROOM	LVT-1	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B101	MECHANICAL	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B102	DUAL ENROLL. EV CHARGER	LVT-1	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B103	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B104	TOOL ROOM	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B105	ELECTRIC VEHICLE LAB	ERF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B106	CONNECTIVITY CLASSROOM	ERF-1	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B107	MECHANICAL	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B108	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B109	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B110	TOOL ROOM	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B111	IDF	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B112	MECHANICAL	ERF-1	ERF-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B113	CONNECTIVITY LAB	ERF-1	ERF-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B114	CORRIDOR	PFT-1/CPT-2/3	PFT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		CUSTOM INSET ENTRY CARPET, CPT-2 TO CPT-8
B115	LOBBY	PFT-1	PFT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B116	RECEPTION	PFT-2	PFT-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B117	CORRIDOR	PFT-2	PFT-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
B118	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B119	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B120	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B121	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B122	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B123	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B124	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B125	TOILET	PFT-2	PWT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WALLS
B126	EXECUTIVE OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B127	EXECUTIVE OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B128	EXECUTIVE OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B129	EXECUTIVE OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B130	ELECTRICAL	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B131	KITCHENTTE	LVT-2	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B132	COPIER/OFFICE SUPPLIES	LVT-2	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B133	CONFERENCE ROOM	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	

BASE(RUBBER/CERAMIC/PORCELAIN/WOOD)

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
RB-1	MANNINGTON	COLOR: IRISH GREY 110 6" SCULPTURED WALL BASE, EDGE EFFECTS, SIMPLIFIQTY EE3M	SEE FINISH SCHEDULE
RB-2	MANNINGTON	COLOR: IRISH GREY 110 4" SCULPTURED WALL BASE, EDGE EFFECTS, SIMPLIFIQTY EE3M	SEE FINISH SCHEDULE; CASEWORK BASE ONLY
ERB-1	TORGNOL	6" BASE, MATCH ERF-1	SEE FINISH SCHEDULE

EPOXY RESIN FLOOR

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
ERF-1	TORGNAL	2" BROADCAST FLAKES CUSTOM COLOR MIX	AS INDICATED ON FINISH SCHEDULE

LUXURY VINYL TILE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
LVT-1	MANNINGTON COMMERCIAL	COLLECTION:SPACIA-ABSTRACT COLOR: CONSTELLATION GREY SSSAA702 SIZE: 12X28	SEE SCHEDULE
LVT-2	MANNINGTON COMMERCIAL	COLLECTION:THE DRIFT-WOOD COLOR: DUTCH ELM TINSMITH D104 SIZE: 7.25X48	SEE SCHEDULE

TILE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
CWT-1	CREATIVE MATERIALS CORPORATION	COLLECTION: COLOR: SIZE: GROUT:	BACKSPLASH IN BREAK ROOM A103 AND KITCHENETTE B131
PWT-1	DALTILE	COLLECTION:FIXTURE COLOR: FOG FX23 SIZE: 12X24 GROUT:	SEE SCHEDULE
PFT-1	DALTILE	COLLECTION: WOODERNIST COLOR: PROVIVE STEEL WD88 SIZE: 36X36 GROUT:	SEE SCHEDULE
PFT-2	DALTILE	COLLECTION:FIXTURE COLOR: GLACIER FX21 SIZE: 12X24 GROUT:	SEE SCHEDULE

ACOUSTICAL BAFFLES

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
AB-1	FRÄSCHI	COLLECTION: BAFL CLASSIC COLOR: MAHOGANY ON SILVER 13P-82	SEE RCP

WOOD DOOR

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
WD-1	MASONITE ARCHITECTURAL	SPECIES: WHITE BIRCH (PLAIN SPLICE) STAIN COLOR: COCOA BEAN	WOOD DOORS

PAINT

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
PNT-1	SHERWIN WILLIAMS	COLOR: AGREEABLE GRAY SW 7029	GENERAL WALLS
PNT-2	SHERWIN WILLIAMS	COLOR: DORIAN GRAY SW 7017	GENERAL TRIM
PNT-3	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE SW 7007	GENERAL CEILING/SOFFIT

PLASTIC LAMINATE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
PL-1	WILSONART	COLOR: FLORENCE WALNUT 7993 PREMIUM LAMINATE WITH MATCHING EDGEBANDING	SEE FINISH SCHEDULE

SOLID SURFACE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
SS-1	DURASEIN BY BPI	COLOR: BLOSSOMING D5027	SEE FINISH SCHEDULE

CARPET

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
CPT-1	MANNINGTON COMMERCIAL	COLLECTION:BLUEPRINT – SCRIPT COLOR: BOTTOM SIZE: 24X24 INSTALLATION: ASHLAR	SEE SCHEDULE
CPT-2	INTERFACE	COLLECTION:VIVA COLORES COLOR: OSCURO 101117 INSTALLATION: CUSTOM; RECESSED IN TILE	CUSTOM LOGO
CPT-3	INTERFACE	COLLECTION:VIVA COLORES COLOR: GRIS PERLA 101179 INSTALLATION: CUSTOM; RECESSED IN TILE	CUSTOM LOGO

TRIM

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
SCH-1	SCHLUTER SYSTEMS	COLLECTION:–SCHIENE PROFILE: RADIUS MATERIAL: ALUMINUM	CUSTOM LOGO – WHERE TILE MEETS CARPET AT ENTRY
SCH-2	SCHLUTER SYSTEMS	COLLECTION:–JOLLY PROFILE: RADIUS MATERIAL: ALUMINUM	AT ALL CORNERS AND TOPS OF EXPOSED TILE EDGES
CG	CONSTRUCTION SPECIALITIES	COLLECTION:VA SERIES COLOR:ACROVYN SOLID COLORS	AT ALL GYPSUM WALL BOARD CORNERS, SEE FINISH FLOOR PLAN

FINISH ABBREVIATION LEGEND

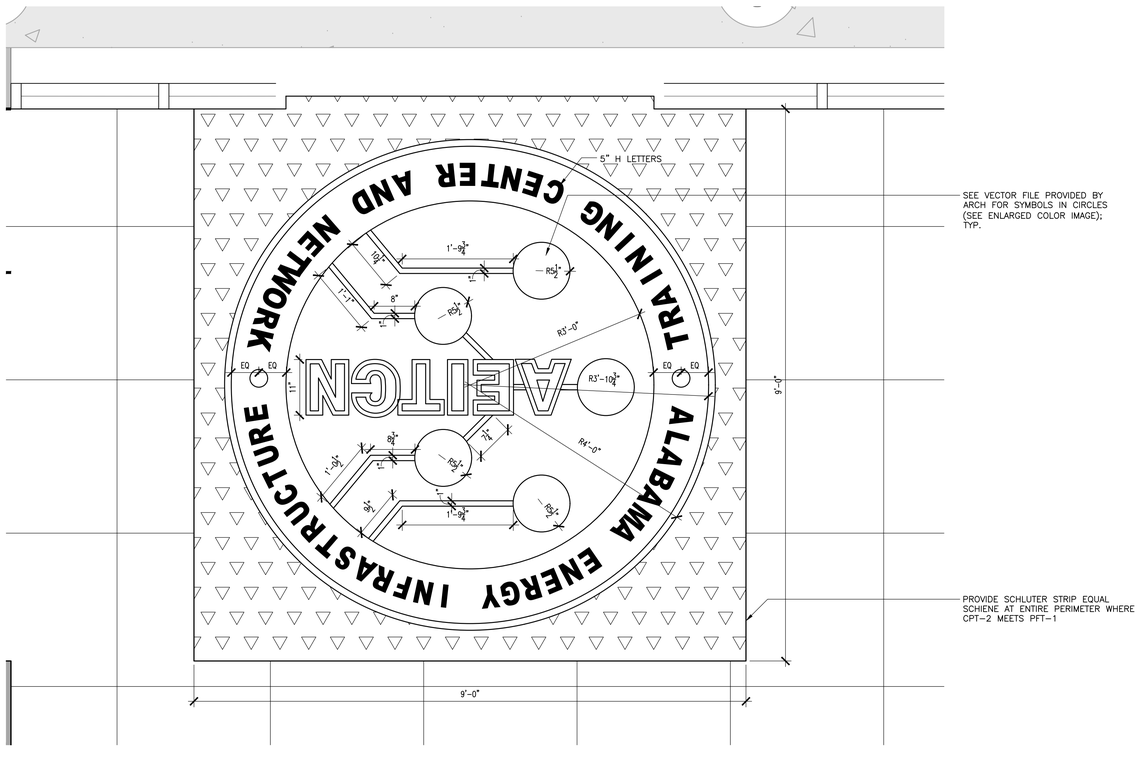
APF	ACOUSTIC PANEL FABRIC	IC	IMPRINTED CONCRETE	SC	SEALED CONCRETE
CC	COATED CONCRETE	LVT	LUXURY VINYL TILE	SCH	SCHLUTER STRIP
CM	CROWN MOLDING	NS	NATURAL STONE	STC	STAINED CONCRETE
CPT	CARPET	PL	PLASTIC LAMINATE	SS	SOLID SURFACE
CR	CHAIR RAIL	PNT	PAINT	ST	STAIN
DP	DIGITAL ACOUSTIC PANEL	PT	PORCELAIN TILE	SWB	STAINED WOOD BASE
CG	CORNER GUARDS	PTB	PORCELAIN TILE BASE	TP	TACKABLE ACOUSTIC PANEL
CWT	CERAMIC WALL TILE	PWB	PAINTED WOOD BASE	TS	TACKABLE SURFACE
ERB	EPOXY RESIN BASE	QT	QUARRY TILE	VCT	VINYL COMP. TILE
ERF	EPOXY RESIN FLOOR	QTB	QUARRY TILE BASE	WB	WOOD BASE
ESD	STATIC CONTROL TILE	QRB	QUARTZ RESIN BASE	WC	WALLCOVERING
GYP	GYPSUM BOARD	QRF	QUARTZ RESIN FLOOR	WF	WOOD FLOORING
		RB	RUBBER BASE	WP	WOOD PANELING
		RF	RUBBER FLOOR	WV	WOOD VENEER

FINISH NOTES

ALL WALLS TO BE PAINTED PNT -1 UNLESS NOTED OTHERWISE.

ALL EXPOSED STRUCTURE SHALL BE PAINTED BLACK; REFER TO ELEVATIONS

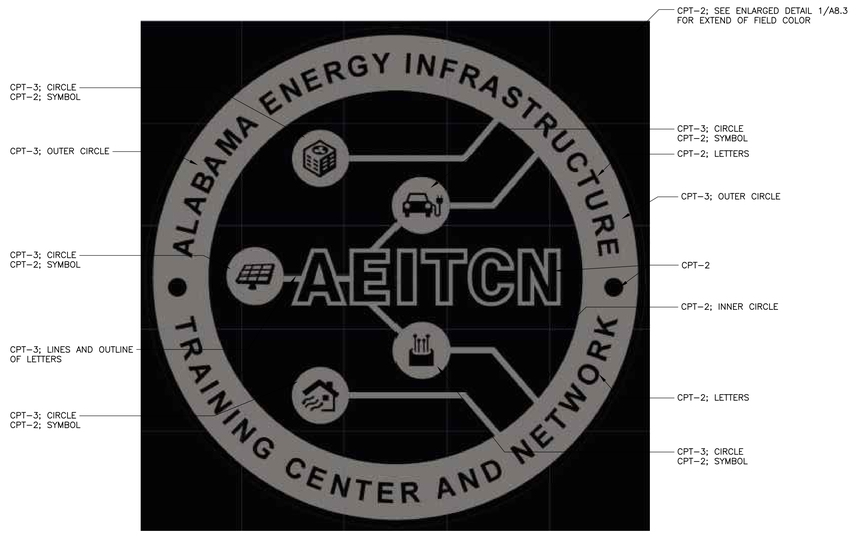
ALL SLOPED CEILINGS SHALL BE PAINTED PNT-3.



1 CUSTOM INSET ENTRY CARPET

SCALE: 1" = 1'-0"

NOTE: ARCHITECT TO PROVIDE CAD/VECTOR FILE



2 CUSTOM INSET ENTRY CARPET

NOT TO SCALE

NOTE: ARCHITECT TO PROVIDE CAD/VECTOR FILE

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PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FINISH SCHEDULE AND LEGEND

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA

DRAWN: K.JOINER

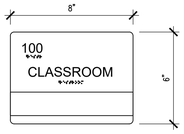
DATE: 12.19.25

REVISIONS

JOB NO. 24-40C

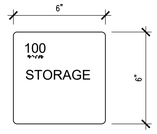
SHEET NO:

A8.3



INTERIOR SIGNAGE (SIGN TYPE - A)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - B)

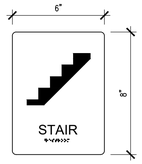
SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN TYPE - C)

SCALE: 3" = 1'-0"

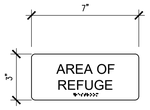
INTERIOR SIGNAGE (SIGN TYPE - D)

SCALE: 3" = 1'-0"



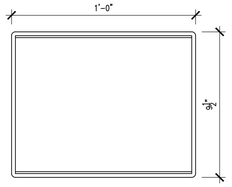
INTERIOR SIGNAGE (SIGN TYPE - E)

SCALE: 3" = 1'-0"



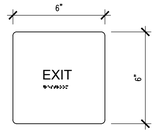
INTERIOR SIGNAGE (SIGN TYPE - F)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - G)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - H)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN - TYPE J)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE LEGEND

A	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
B	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
C	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
E	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
H	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)

1 ROOM SIGNAGE PLAN

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ROOM SIGNAGE PLAN, LEGEND, AND DETAILS - AREA A

STATE OF ALABAMA
No. 7007
RYAN D. VERNON
REGISTERED ARCHITECT

PROJ. MGR.: S. CALMA

DRAWN: K.JOINER

DATE: 12.19.25

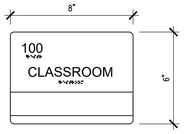
REVISIONS

JOB NO. 24-40C

SHEET NO:

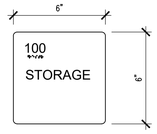
A9.1

23 OF 24



INTERIOR SIGNAGE (SIGN TYPE - A)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - B)

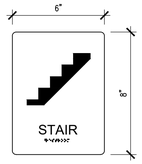
SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN TYPE - C)

SCALE: 3" = 1'-0"

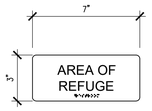
INTERIOR SIGNAGE (SIGN TYPE - D)

SCALE: 3" = 1'-0"



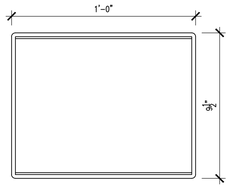
INTERIOR SIGNAGE (SIGN TYPE - E)

SCALE: 3" = 1'-0"



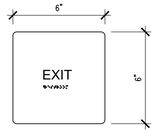
INTERIOR SIGNAGE (SIGN TYPE - F)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - G)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - H)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN - TYPE J)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE LEGEND

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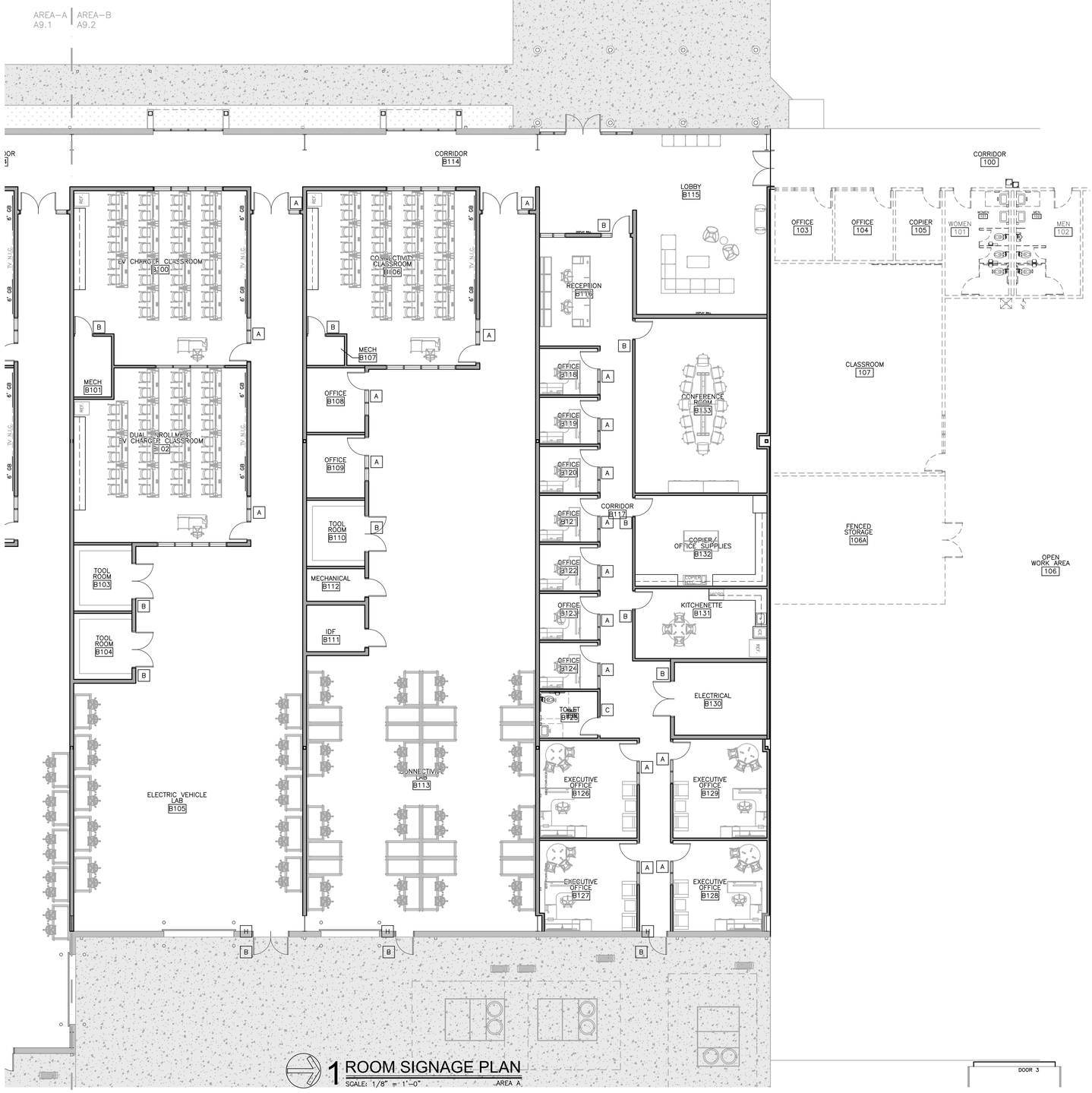
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)



1 ROOM SIGNAGE PLAN

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

LATHAN McKEE ARCHITECTS

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PROJ. MGR.: S. CALMA

DRAWN: K.JOINER

DATE: 12.19.25

REVISIONS

JOB NO. 24-40C

SHEET NO:

A9.2

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SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-140A

LATHAN McKEE
ARCHITECTS

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

D. COLD-FORMED STEEL FRAMING: AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI S100-16(2020) W/S2-20)

OTHER APPLICABLE AISI STANDARDS, AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION

E. PREFABRICATED METAL BUILDING
MBMA'S (METAL BUILDING MANUFACTURERS ASSOCIATION'S) METAL BUILDING SYSTEMS MANUAL, LATEST EDITION

MBMA'S METAL ROOFING SYSTEMS DESIGN MANUAL, LATEST EDITION

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. FLOOR LIVE LOADS:
NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR (REDUCIBLE)----------100

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14

ROOF----------20

D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)----------10.0
IMPORTANCE FACTOR (I)----------1.0
EXPOSURE FACTOR (Ce)----------1.0
THERMAL FACTOR (Ct)----------1.0

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:
OCCUPANCY CATEGORY II
BASIC WIND SPEED (3-SECOND GUST)----------108MPH
WIND IMPORTANCE FACTOR (I)----------1.0
WIND EXPOSURE CATEGORY----------C
INTERNAL PRESSURE COEFFICIENTS---------- +/- 0.55
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
OCCUPANCY CATEGORY II
SEISMIC IMPORTANCE FACTOR----------1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS----------0.297
S1----------0.111
SITE CLASS----------D
SPECTRAL RESPONSE COEFFICIENTS:
SDS----------0.309
SD1----------0.176
SEISMIC DESIGN CATEGORY----------C
BASIC SEISMIC-FORCE-RESISTING SYSTEM (CANOPY):
CANTILEVERED COLUMN
DESIGN BASE SHEAR----------3.96 KIPS
SEISMIC RESPONSE COEFFICIENT, Cs----------0.2474
RESPONSE MODIFICATION FACTOR, R----------1.25
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

C. THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE METAL BUILDING MANUFACTURER:

BASIC SEISMIC FORCE RESISTING SYSTEM
DESIGN BASE SHEAR
SEISMIC RESPONSE COEFFICIENT, Cs
RESPONSE MODIFICATION FACTOR, R
ANALYSIS PROCEDURE

2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.4 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.5 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.6 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.7 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION, AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.8 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS.

2.9 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.

2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.11 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

2.12 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL OR COVER SHEET IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

3.0 FOUNDATIONS

3.1 (CANOPYIES)
GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY BECC, TITLED "EXPANSION OF ALABAMA POWER HAVAC TRANING CENTER BUILDING, JASPER, ALABAMA PROJECT NO.224039" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.

3.2 MAXIMUM ALLOWABLE BEARING PRESSURE PER GEOTECHNICAL REPORT:

A. BUILDING FOOTINGS: 6,000PSF IMPROVED WITH RAMMED AGGREGATE PIERS PER GEOTECHNICAL REPORT

3.3 RAMMED AGGREGATE PIERS:

A. RAMMED AGGREGATE PIERS SHALL BE DESIGNED AND INSTALLED BY A LICENSED INSTALLER.
B. INSTALLATION SHALL NOT OCCUR UNTIL FULL-SCALE MODULUS LOAD TEST IS PERFORMED IN GENERAL AREA OF SITE TO CONFIRM DESIGN ASSUMPTIONS.
C. UTILITIES SHALL NOT BE INSTALLED WITHIN 5 FEET OF RAMMED AGGREGATE PIERS. SPECIAL DETAILS FOR UTILITIES WITHIN 5 FEET OF RAMMED AGGREGATE PIERS WILL APPLY. MANUFACTURER SHALL PROVIDE REQUIREMENT FOR EXCAVATIONS NEAR RAMMED AGGREGATE PIERS FOR CASES PRIOR TO INSTALLATION, PRIOR TO CONCRETE PLACEMENT AND AFTER CONCRETE PLACEMENT.
D. WHERE TEMPORARY SHORING OR STEEL CASING IS REQUIRED FOR INSTALLATION OF RAMMED AGGREGATE PIERS, SUCH DESIGN SHALL BE BY THE RAMMED AGGREGATE PIER MANUFACTURER.

3.4 (POLE TRAINING BARN METAL BUILDING)
A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND ASSUMED SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.

3.5 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):
COLUMN FOOTINGS----------2000
CONTINUOUS WALL FOOTINGS----------2000

NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR MATERIAL
(NATIVE SOILS OR WEATHERED BEDROCK), EXTEND FOOTINGS AS NECESSARY WITH LEAN CONCRETE OR FLOWABLE FILL

3.6 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

3.7 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE

3.8 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.9 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

3.10 PROVIDE A MINIMUM OF 4" OF #57 STONE GRANULAR FILL SUPPORTING SLABS ON GRADE. THE BUILDING FLOOR SLAB SUBGRADE SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. THE SUBGRADE SHALL BE INSTALLED TO A MINIMUM MODULUS OF SUBGRADE REACTION OF 100PSI. THE GEOTECHNICAL ENGINEER AND CONTRACTOR SHALL PERFORM EARTHWORK AS REQUIRED TO MEET THIS SPECIFICATION.

3.11 SOIL INSPECTION AND TESTING SHALL BE PERIODIC.

A. VERIFY BEARING CAPACITY OF SOILS BENEATH FOOTINGS IS IN ACCORDANCE WITH THE APPROVED PROJECT SOILS REPORT.

B. VERIFY ASSUMED BEARING CAPACITIES (AS NOTED ON THE DRAWINGS, RECOMMENDED BY THE GEOTECHNICAL ENGINEER) AND DETERMINE THE SETTLEMENTS OF SOILS BENEATH FOOTINGS AND BUILDING PAD.

C. VERIFY SITE PREPARATION PRIOR TO BEGINNING FILL PLACEMENT. VERIFY FILL MATERIAL TYPE, PLACEMENT METHOD, LIFT THICKNESS, AND COMPACTION OF FILL MATERIAL. VERIFY IN-PLACE DENSITY OF COMPACTED FILL.

4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH	TYPE	MAX W/C	AIR	SLUMP	USE
3000	NORMAL WT.	0.57	----	3" TO 5"	FOOTINGS
3500	NORMAL WT.	0.50	----	3" TO 5"	SLABS ON GRADE
4000	NORMAL WT.	0.45	4-6%	3" TO 5"	UNLESS NOTED

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.6 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.7 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.8 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.10 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS----------2" TOP & 3" BOTTOM & SIDES
COLUMNS & PEDESTALS----------1-1/2" CLEAR OF TIES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH----------3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS----------1-1/2"
B. #6 AND GREATER----------2"

NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

4.11 COLUMN, PEDESTAL AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.12 WELDED WIRE REINFORCEMENT (WWR): ASTM A1064. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.13 EARTH SUPPORTED SLABS:

4" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

6" THICK SLAB IN SHOP AREA REINFORCED WITH #4@12 EACH WAY CHAIRED 2" CLEAR OF THE TOP OF SLAB WITH PLASTIC CHAIRS WITH LARGE DIA BASE AT 36" ON CENTER.

PROVIDE CONTROL AND CONSTRUCTION JOINTS AT MAXIMUM OF 3-4 TIMES SLAB THICKNESS IN FEET OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB, PROVIDE JOINTS SPACED 12 - 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2X SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.

FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUACY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.

EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.

PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

4.14 CAST IN PLACE ALL SLEEVES AND INSERTS.

4.15 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

5.0 STRUCTURAL STEEL

5.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

5.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

5.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; ASTM A36 FOR CHANNELS, STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES AND STEEL ANGLES.

5.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.

5.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.

5.6 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.

5.7 THREADED AND PLAIN STEEL RODS: ASTM A36

5.8 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE INDICATED.

5.9 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED, PER ASTM A 123/A 123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.

5.10 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS, EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

5.11 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS. STAIR SHOP DRAWINGS THAT DO NOT CONTAIN DESIGN CALCULATIONS (MEMBERS, CONNECTIONS, ANCHORAGE, ETC.) WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."

5.12 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

6.0 STEEL DECK

6.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI).

6.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

6.3 DESIGN ROOF DECK TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

6.4 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS [WITH WELD WASHERS FOR DECKS THINNER THAN 22 GAGE] IN A 36/4 PATTERN, SEE TYPICAL DETAILS AND/OR PLAN/SECTION NOTES. SIDE LAP FASTENERS SHALL BE #10 TEK SCREWS. PROVIDE TWO SIDELAP FASTENER PER SPAN. ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD GALVANIZING PAINT.

6.5 ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 22 GAGE, 1-1/2" DEEP, GALVANIZED.

6.6 CONTRACTOR OPTION TO USE HILTI S-SLC 02 M HWH IN LIEU OF #10 SIDELAP SCREWS AND HILTI FASTENERS IN LIEU OF #12 TEK SCREWS AS FOLLOWS: HILTI S-MD 12-24x1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS WITH 16 GA $\leq$ tf $\leq$ 1/4"; HILTI X-HSN 24 PINS FOR JOISTS AND BEAMS WITH 1/8" $\leq$ tf $\leq$ 3/8"; & HILTI X-ENP 19 L15 PINS FOR BEAMS WITH tf $\geq$ 1/4".

6.7 WELDED CONNECTIONS: E60XX ELECTRODES. WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

6.8 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

6.9 NAILABLE SUBSTRATE SHALL BE FASTENED TO STEEL ROOF DECK WITH #8 ROUND HEAD, ZINC PLATED SELF-TAPPING SCREWS AT 12" O.C. EACH WAY. AT CORNER ZONES, ATTACH SCREWS AT 6" O.C. - SEE TYPICAL DETAILS FOR CORNER ZONES.

7.0 COLD-FORMED STEEL FRAMING

7.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

7.2 UNLESS SPECIFICALLY DESIGNED AND DETAILED IN DRAWINGS, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL DETAILS FOR FRAMING LAYOUT AND SECTIONS. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

7.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

7.4 DEFLECTION LIMITS FOR MEMBERS:

		DL	LL	TL
A.	SOFFITS:	L/240	L/240	L/180
B.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF		L/600
C.	WALL SUPPORTING STUCCO:	HORIZONTAL DEFLECTION OF		L/360
D.	WALL SUPPORTING EIFS:	HORIZONTAL DEFLECTION OF		L/240
E.	WALL PARTITIONS:	HORIZONTAL DEFLECTION OF		L/180

7.5 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

7.6 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.

7.7 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" OC.

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
GENERAL NOTES

ALABAMA REGISTERED PROFESSIONAL ENGINEER
No. 22596
CRAIG WINN
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C
SHEET NO:
S1.0

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-140A

GENERAL NOTES CONTINUED

7.8 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS.

7.9 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.

7.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8": WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

7.11 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS AT ALL NON-LOAD BEARING STEEL FRAMING.

7.12 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

8.0 PREFABRICATED METAL BUILDING

8.1 METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF MBMA (METAL BUILDING MANUFACTURERS ASSOCIATION) AND HAS MET THE REQUIREMENTS OF IAS (INTERNATIONAL ACCREDITATION SERVICE) AC472 ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS, WHICH IS BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

A. METAL BUILDING ERECTOR SHALL BE ACCREDITED UNDER THE IAS AC478 ACCREDITATION CRITERIA FOR INSPECTION PRACTICES OF METAL BUILDING ASSEMBLERS.

8.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH THE MBMA'S METAL BUILDING SYSTEMS MANUAL & METAL ROOFING SYSTEMS DESIGN MANUAL (LATEST EDITIONS & BASED ON THE GENERAL BUILDING CODE NOTED ABOVE). THE APPLIED METAL BUILDING LIVE LOADS AND LATERAL LOADS ARE TO MEET LOADS PER THE GENERAL BUILDING CODE NOTED ABOVE.

8.3 COLLATERAL LOADS FROM COMPONENTS SUPPORTED ON OR SUSPENDED FROM THE ROOF STRUCTURE SHALL BE INCLUDED IN THE DESIGN OF THE METAL BUILDING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF SUSPENDED CEILING. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND MAGNITUDE OF SUPPORTED EQUIPMENT. SEE SPECIFICATIONS FOR MAGNITUDE OF MINIMUM DESIGN COLLATERAL LOADS.

8.4 ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER. FOR ANCHOR ROD EMBEDMENT LENGTH, SEE SHEET S1.2. ANCHOR RODS PURCHASED AND INSTALLED BY GENERAL CONTRACTOR.

8.5 BEFORE FOOTING INSTALLATION, THE ANCHOR ROD EMBEDMENT LENGTHS MUST BE VERIFIED. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES, WHICHEVER IS GREATER.

8.6 HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE SHALL BE BY THE METAL BUILDING SUPPLIER.

8.7 METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE SUBMITTED FOR REVIEW OF THE FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.

8.8 GRAVITY DESIGN LOADS:
A. LIVE LOAD:20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
B. DEAD LOAD: WEIGHT OF THE STRUCTURE
C. COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS, SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILINGS, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS, ETC.

8.9 DEFLECTION LIMITS FOR MEMBERS:
A. PURLINS AND RAFTERS: DL L/360 LL L/360 TL L/240
B. GIRTS: HORIZONTAL DEFLECTION OF L/240
C. GIRTS SUPPORTING MASONRY: HORIZONTAL DEFLECTION OF L/600
D. OVERALL BUILDING DRIFT: H/300, WHERE "H" IS THE BUILDING EAVE HEIGHT.

8.10 ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT / DOWN OR UP) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.

8.11 THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

8.12 BEFORE THE INSTALLATION OF FOUNDATIONS, THE METAL BUILDING SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY METAL BUILDING REACTIONS GENERATED BY STRUCTURAL DESIGN GROUP, INC. AND AS SHOWN IN THE TYPICAL DETAILS. DIFFERENCES IN PRELIMINARY & ACTUAL REACTIONS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATION SIZES AFTER REVIEWING THE FINAL METAL BUILDING COLUMN REACTIONS.

8.13 METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

8.14 ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS TO THE METAL BUILDING SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER TO RESIST THE FORCES INDICATED ON THE DRAWINGS. CALCULATIONS FOR THESE CONNECTIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.

8.15 MASONRY OR CFS FRAMED WALLS ON COLUMN LINES SHALL NOT BE CONSIDERED AS SHEAR WALLS FOR BUILDING STABILITY. FOR COLUMN DESIGN, ASSUME COLUMN UNBRACED LENGTH AS INDEPENDENT OF MASONRY AND CFS FRAMED WALLS.

8.16 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.

8.17 EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.

8.18 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL LOADS (WIND & SEISMIC).

8.19 METAL BUILDING ENGINEER SHALL VISIT THE JOB SITE AT LEAST ONCE EVERY TWO WEEKS DURING ERECTION TO OBSERVE INSTALLATION OF METAL BUILDING FRAMINGS AND ISSUE REPORTS TO ARCHITECT/ENGINEER.

8.20 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ARCHITECT AND STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

9.0 POST-INSTALLED ANCHORS AND REINFORCING

9.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

9.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

9.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TORQ-CUT" (ICC-ES ESR-2705)
4. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
5. HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ EXPANSION ANCHORS (ICC ESR-1917)
7. HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-3 EXPANSION ANCHORS (ICC ESR 1545)
10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
14. DEWALT ATOMIC+ UNDERCUT (ICC-ES ESR-3067)
15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

B. MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE:

1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912)
2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)

C. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)
3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
6. HILTI KWIK-X DUAL ACTION ANCHOR SAFEST SYSTEM WITH KHC CAPSULE ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065)
7. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
8. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

D. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
5. DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)

9.4 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS:

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 GA $\leq$ TF $\leq$ 1/4"
2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM 1/8" $\leq$ TF $\leq$ 3/8"
3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF $\geq$ 1/4".

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

9.5 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.

9.6 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

9.7 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

9.8 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS UNLESS SHIMS ARE PROVIDED. ANCHORS TO SECURE CONNECTED PARTS TOGETHER TO SNUG.

9.9 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED.

9.10 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

9.11 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

9.12 ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

10.0 PREFABRICATED CANOPY

10.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.

10.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

10.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.

10.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL CANOPY MEMBERS, INCLUDING COLUMNS, BEAMS, FOOTINGS, FASCIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

10.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED TO THE BUILDING, CONNECTIONS TO BUILDING BY CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO LOAD-BEARING WALL OR WALL GIRT. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

11.0 INSPECTIONS

11.1 OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS, AS CONSTRUCTION PROGRESSES, FORWARD COPIES OF INSPECTION REPORTS TO STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.

11.2 STRUCTURAL OBSERVATION BY SDG IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL AND CONSTRUCTION DOCUMENTS.

11.3 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
GENERAL NOTES CONTINUED

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn P.E.
12/19/2025

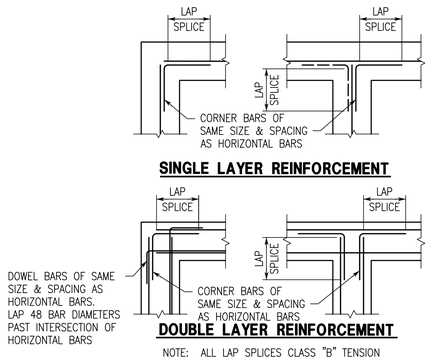
PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C
SHEET NO:
S1.1

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-140A

LATHAN McKEE ARCHITECTS



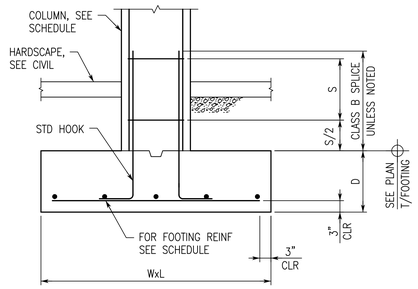
SINGLE LAYER REINFORCEMENT

DOUBLE LAYER REINFORCEMENT

NOTE: ALL LAP SPLICES CLASS "B" TENSION

FOUNDATION AND WALL CORNER REINFORCING DETAIL

TYPICAL



FOOTING DETAIL

TYPICAL

TENSION LAP SPLICE LENGTHS

BAR SIZE	f_C= 3000 PSI				f_C= 4000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B
#3	22"	28"	17"	22"	19"	24"	15"	19"
#4	29"	37"	22"	29"	25"	32"	19"	25"
#5	36"	47"	28"	36"	31"	40"	24"	31"
#6	43"	56"	33"	43"	37"	48"	29"	37"
#7	63"	81"	48"	63"	54"	70"	42"	54"
#8	72"	93"	55"	72"	62"	80"	48"	62"
#9	81"	105"	62"	81"	70"	91"	54"	70"
#10	91"	118"	70"	91"	79"	102"	61"	79"
#11	101"	131"	78"	101"	87"	113"	67"	87"

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

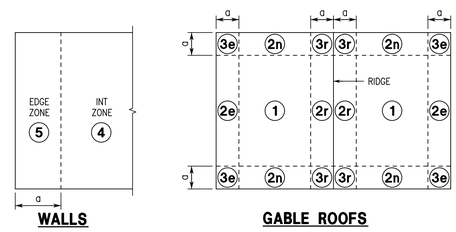
108 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT^2)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	40.3	-42.8	-50.3
	20	38.9	-41.4	-47.6
	50	37.2	-39.6	-44.1
	100	35.8	-38.3	-41.5
	200	34.5	-37.0	-38.8
	500	32.8	-35.3	-35.3

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 10'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

108 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT^2)	ROOF: Positive Max. Net Pressure 'p' (PSF)	ROOF: Zone 1 & 2e (Int.)	ROOF: Zone 2n, 2r, & 3e (Edge)	ROOF: Zone 3r (Corner)	OVERHANG: Zone 1 & 2e (Int) - Max. Net Pressure 'p' (PSF)	OVERHANG: Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	OVERHANG: Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)
	10	30.1	-70.8	-98.6	-115.2	-69.4	-97.2	-113.8
	20	28.2	-70.8	-86.6	-100.2	-69.4	-88.2	-98.3
	50	25.6	-47.1	-70.8	-80.3	-53.6	-76.4	-77.7
	100	23.6	-29.2	-58.8	-65.3	-41.6	-67.4	-62.2
	200	23.6	-29.2	-46.9	-65.3	-41.6	-58.4	-46.7
	500	23.6	-29.2	-43.0	-65.3	-41.6	-55.5	-41.6

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 10'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF TRUSSES AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.

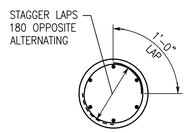


WALLS

GABLE ROOFS

WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

TYPICAL

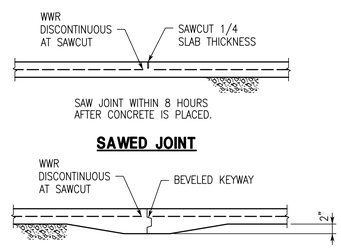


ROUND

NOTE: ALTERNATE POSITION OF TIE HOOKS IN PLACING SUCCESSIVE SETS OF TIES

COLUMN TIE DETAILS

TYPICAL



SAWED JOINT

KEYED JOINT

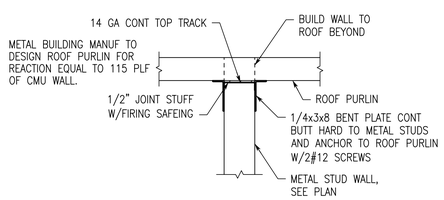
SLAB CONTROL JOINT DETAILS

TYPICAL
JOINT TYPE IS OPTIONAL
IF NO JOINTS SPECIFIED, SEE GENERAL NOTES

ANCHOR ROD EMBEDMENT LENGTHS

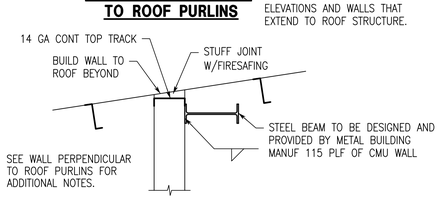
BOLT DIA	MIN EMBEDMENT
3/4"	9"
1"	12"
1 1/4"	15"
1 1/2"	18"

NOTE:
ANCHOR ROD SIZE AND MATERIAL TO BE PROVIDED BY METAL BUILDING MANUFACTURER. THE ABOVE TABLE IS MINIMUM EMBEDMENT TO FULLY DEVELOP ASTM F1554 GRADE 36 HEADED ANCHOR RODS. FINAL ANCHOR ROD EMBEDMENT DEPTH SHALL BE DETERMINED BY STRUCTURAL ENGINEER AFTER SUBMITTAL OF COLUMN BASE AND ANCHOR ROD INFORMATION FROM METAL BUILDING MANUFACTURER PRIOR TO MATERIAL ORDER AND FABRICATION.



WALL PERPENDICULAR TO ROOF PURLINS

NOTE:
COORDINATE WITH ARCHITECTURAL DRAWINGS FOR TOP OF WALL ELEVATIONS AND WALLS THAT EXTEND TO ROOF STRUCTURE.

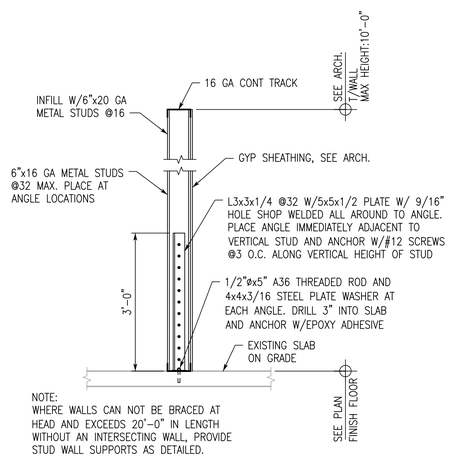


WALL PARALLEL TO PURLINS

NOTE:
COORDINATE WITH ARCHITECTURAL DRAWINGS FOR TOP OF WALL ELEVATIONS AND WALLS THAT EXTEND TO ROOF STRUCTURE.

METAL STUD WALL SUPPORT AT ROOF

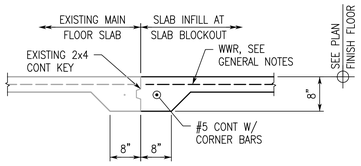
TYPICAL



NOTE:
WHERE WALLS CAN NOT BE BRACED AT HEAD AND EXCEEDS 20'-0" IN LENGTH WITHOUT AN INTERSECTING WALL, PROVIDE STUD WALL SUPPORTS AS DETAILED.

TYPICAL STUD WALL SUPPORT

TYPICAL



CONSTRUCTION JOINT AT SLAB BLOCKOUT

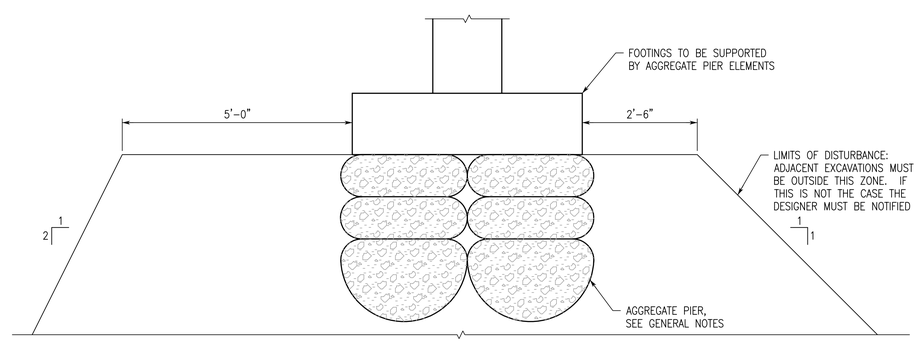
TYPICAL

METAL BUILDING COLUMN REACTIONS (KIPS)

COLUMN DESIGNATION	DEAD		ROOF LIVE		WIND EW		WIND NS		EQ EW	
	H	V	H	V	H	V	H	V	H	V
A1, F1	-1.6	6.1	-2.6	7.8	±12.1	-24.2/+4.6	±3.4	-34.5	±0.7	±3.5
A7,F7	0.0	1.3	0.0	2.3	0.0	-5.4/+0.0	-0.0	-7.0/+13.5	0.0	±0.0
B7,E7	0.0	3.7	0.0	5.0	0.0	-12.1/+0.2	-17.7/+19.0	-12.4	0.0	±0.1
C7,D7	0.0	4.1	0.0	5.1	±8.9a	-35.9/+23.9	-19.1/+20.5	-10.5	±1.7a	±4.8
A2, F2**	-2.8	10.5	-4.9	15.0	±23.0	-46.5/+8.7	±6.30	-53.5	±1.0	±3.5

** INDICATES FRAME LINES 3-6

NOTES:
1. BEFORE INSTALLATION OF FOUNDATIONS, METAL BUILDINGS SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY METAL BUILDING REACTIONS GENERATED BY BIGBEE CUSTOM BUILDINGS AND SHOWN IN THE TYPICAL DETAILS. THIS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATION SIZES AFTER REVIEW OF THE FINAL METAL BUILDING COLUMN REACTIONS.
2. POSTIVE AND NEGATIVE AXIAL FORCES (V) INDICATE FORCES ACTING TO AND AWAY FROM THE STRUCTURE, RESPECTIVELY. POSTIVE AND NEGATIVE SHEAR (H) INDICATE FORCES ACTING TOWARD AND AWAY FROM THE CENTER OF THE BUILDING, RESPECTIVELY.
3. LATERAL FORCES SHOWN ARE ULTIMATE LEVEL FORCES.
4. a: OUT OF PLANE TO COLUMN WEB REACTION



ADJACENT EXCAVATION TO FOUNDATION DETAIL

TYPICAL

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: TYPICAL DETAILS

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 22596 CRAIG WINN
H. Craig Winn, P.E.
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C
SHEET NO: S1.2
3 OF 7

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
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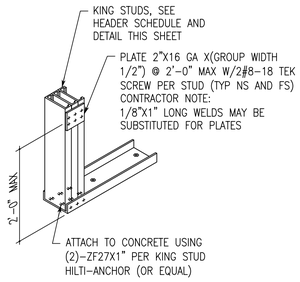
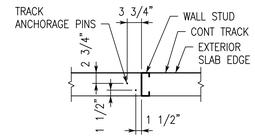
Job Number 24-140A

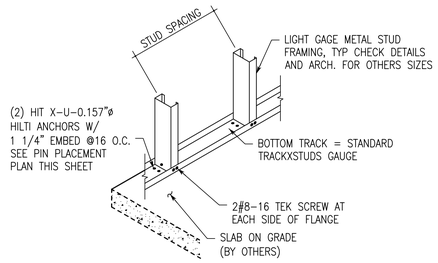
LATHAN McKEE ARCHITECTS



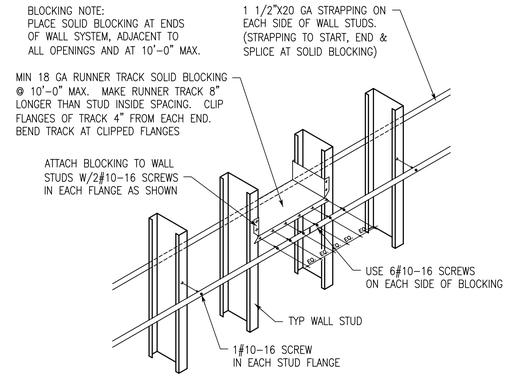
KING STUD GROUP CONNECTION
TYPICAL



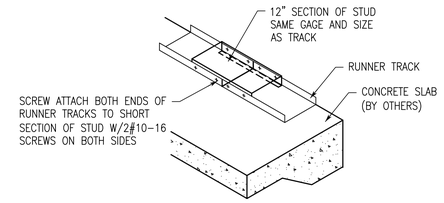
PIN PLACEMENT PLAN



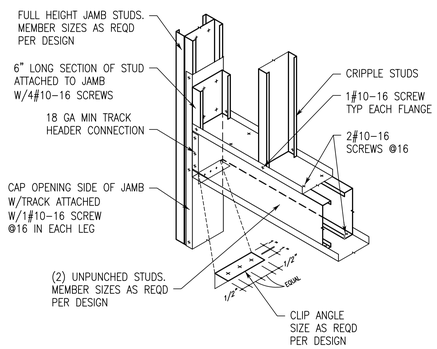
SLAB CONNECTION DETAIL
TYPICAL



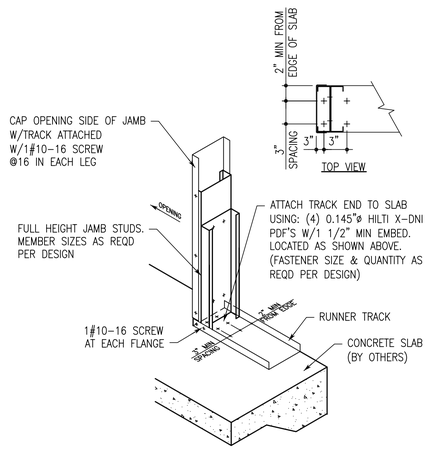
STRAP BRIDGING LATERAL BRACING
TYPICAL



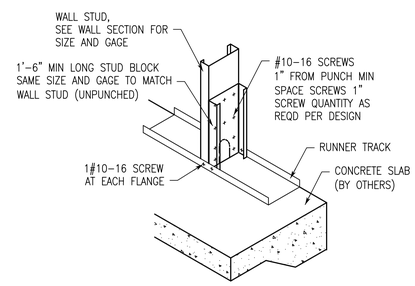
BOTTOM TRACK SPLICE
TYPICAL



BOX HEADER
TYPICAL

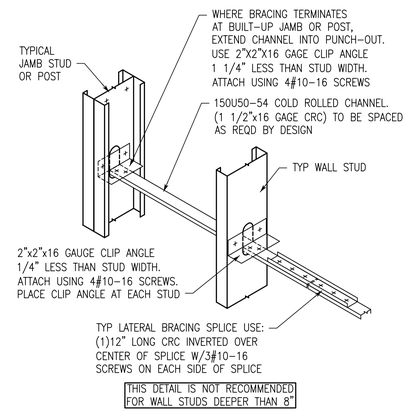


DOOR JAMB ANCHORAGE
TYPICAL



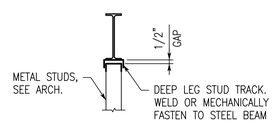
NOTE:
WHERE FIELD CUTS CAUSE PUNCHOUT TO OCCUR AT STUD/RUNNER INTERSECTION REINFORCE STUD AS SHOWN FOR SCREW ATTACHMENT.

REINFORCEMENT AT STUD END
TYPICAL

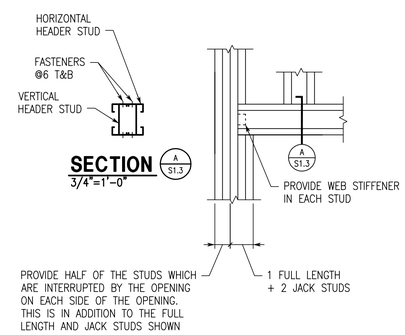


THIS DETAIL IS NOT RECOMMENDED FOR WALL STUDS DEEPER THAN 8"

STUD BRIDGING WITH BRIDGING CLIP
TYPICAL



STUD WALL ANCHORAGE TO STEEL BEAM
TYPICAL



SECTION A S1.3
3/4"=1'-0"

SPAN	VERTICAL HEADER STUDS (2 TOTAL)	HORIZONTAL HEADER STUDS (2 TOTAL)
3'-0"	800S162-33	800S162-33
4'-0"	800S162-33	800S162-33
5'-0"	800S162-43	800S162-43
6'-0"	800S162-43	800S162-43
7'-0"	800S162-43	800S162-43
8'-0"	800S162-43	800S162-43
9'-0"	800S200-54	800S200-54
10'-0"	800S200-54	800S200-54

NOTES:
1. FOR SPANS GREATER THAN 10'-0", CONTACT STRUCTURAL ENGINEER.
2. THIS IS FOR EXTERIOR WALL CONDITION. SEE ARCH. FOR HEADER DETAILS INTERIOR WALL CONDITION.
3. COORDINATE LOCATION OF LIGHT SWITCHES, EXTERIOR LIGHTS, ETC. W/HEADER. EXTEND HEADER LENGTH AND ADDED JACK STUDS AS NEEDED. DO NOT INTERRUPT, CUT OR DAMAGE JAMBS AND JACK STUDS SHOWN.

METAL STUD HEADER
TYPICAL

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
TYPICAL DETAILS

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn P.E.
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C
SHEET NO:
S1.3
4 OF 7

SDG
STRUCTURAL DESIGN GROUP
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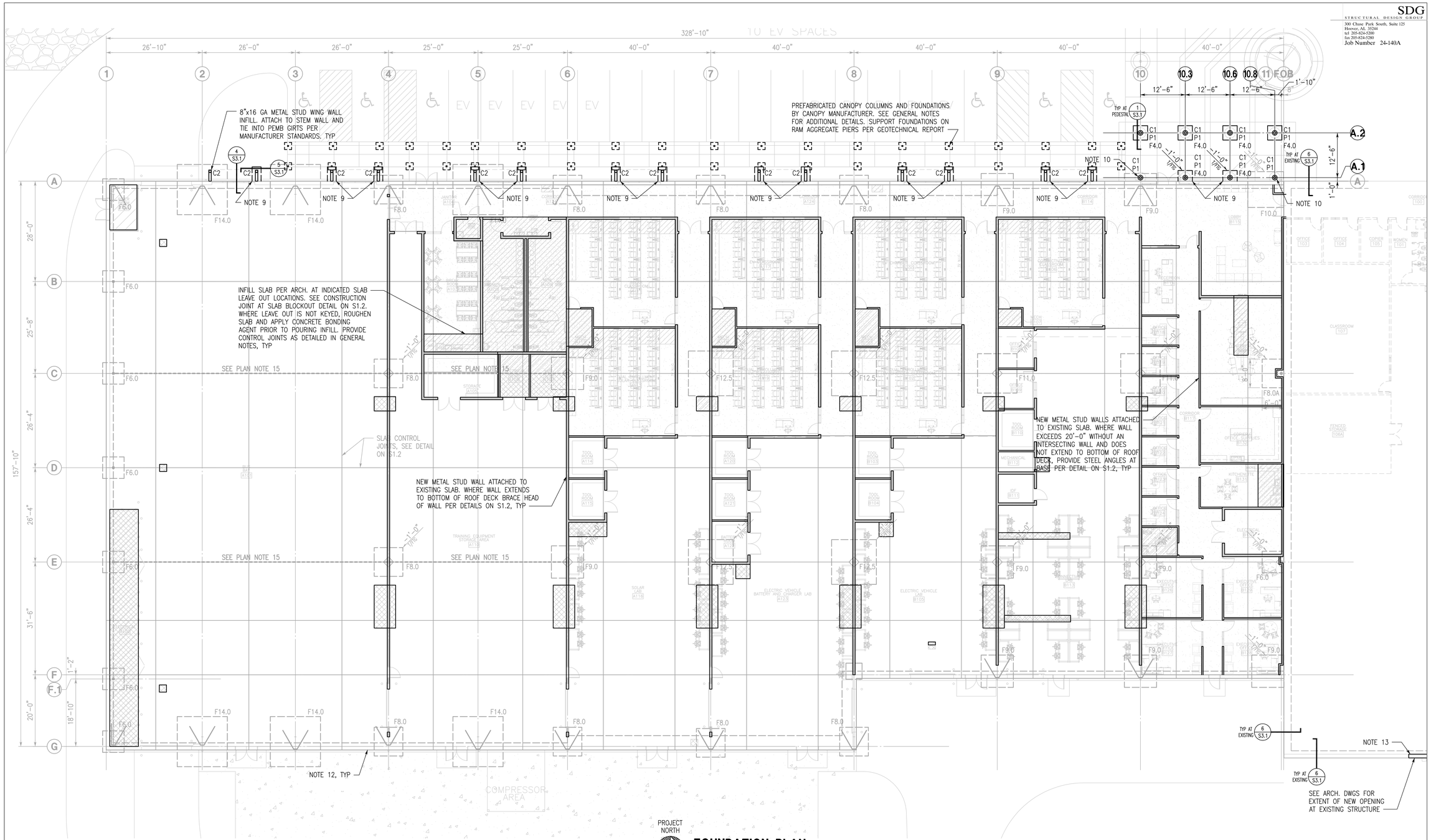


PROJECT NORTH

FOUNDATION PLAN

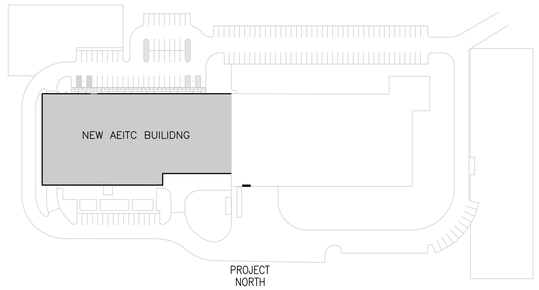
3/32"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION IS -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
3. ALL FOOTINGS ARE TO BE SUPPORTED ON RAMMED AGGREGATE PIERS DEIGNED BY THE CONTRACTOR. ACTUAL LAYOUT OF RAMMED AGGREGATE PIERS ARE TO BE DETERMINED BY THE CONTRACTOR. FOR ADDITIONAL RAMMED AGGREGATE PIER INFORMATION, SEE THE GENERAL NOTES AND SPECIFICATIONS.
4. FOR GENERAL NOTES SEE SHEET S1.1.
5. GENERAL CONTRACTOR SHALL CUT SAWN JOINTS NO MORE THAN 8 HOURS AFTER STEEL TROWEL FINISH ON SLAB.
6. "F#" INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCING. SEE FOOTING DETAIL ON S1.2 FOR FOOTING AND PEDESTAL DETAILS.
7. "C1" INDICATES 8"ø SCH40 PIPE WITH 3/4x10x10 EMBED PLATE WELDED ALL AROUND TO BASE OF COLUMN WITH (4) 3/4"ø HEADED STUDS MINIMUM 9" EMBEDMENT AT 6" GAGE MINIMUM.
8. "P1" INDICATES 16"ø PEDESTAL REINFORCED WITH 8#6 VERTICALS AND #3 TIES @12. SEE COLUMN TIE DETAILS ON S1.2.
9. GENERAL CONTRACTOR COORDINATE FOOTING ELEVATIONS. DOWEL PERPENDICULAR REINFORCING 9" INTO EXISTING FOOTING TURN DOWN BY DRILLING AND ANCHORING WITH EPOXY ADHESIVE.
10. CONTRACTOR SHALL FIELD VERIFY EXISTING FOOTING ELEVATION. DRILL AND ANCHOR ALL VERTICAL BARS WITH EPOXY ADHESIVE INTO TOP OF EXISTING FOOTING MINIMUM 9" EMBEDMENT.
11. FOR METAL STUD DETAILS, SEE S1.3.
12. CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACT DRAWINGS AND PROVIDE OPENING IN METAL PANELS FOR DUCT PENETRATIONS. CONTRACTOR SHALL PROVIDE SUPPLEMENTAL METAL STUDS OR Z-GIRTS AS REQUIRED TO FRAME OUT MECHANICAL PENETRATIONS.
13. PURLIN RELOCATION: CONTRACTOR REQUIRED TO RELOCATE METAL BUILDING GIRTS TO ACCOMMODATE NEW OPENINGS IN EXISTING BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS AND METAL BUILDING MANUFACTURER.
14. "C2" INDICATES HSS 8x8x3/8 WITH 3/4x14x14 BASE PLATE AND (4) 3/4"ø THREADED ANCHOR RODS MINIMUM 9" EMBEDMENT INTO FOOTING. EXTEND COLUMN TO TOP OF FOOTING.

FOOTING SCHEDULE

FOOTING DESIGNATION		F4.0	
FOOTING	SIZE (LxW)	4'-0"x4'-0"	
	DEPTH (D)	1'-0"	
	REINF EW (BOT)	4#5	
	NOTES	1	

NOTES:
1. PROVIDE SCHEDULED REINFORCEMENT ON TOP AND BOTTOM OF FOOTING.



PROJECT NORTH

KEY PLAN

NOT TO SCALE

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
FOUNDATION PLAN

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C

SHEET NO:
S2.0
5 OF 7

SDG
STRUCTURAL DESIGN GROUP
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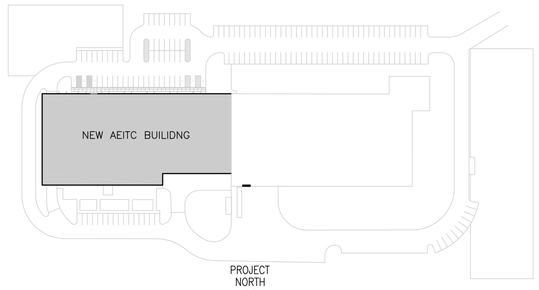
Job Number 24-140A

PROJECT NORTH

CANOPY ROOF FRAMING PLAN

3/32"=1'-0"

1. TOP OF STEEL ELEVATION 14'-6" ABOVE FINISH FLOOR, UNLESS NOTED (±) INCHES.
2. ROOF SYSTEM: 1 1/2" DEEP, 22 GAGE, GALVANIZED STEEL DECK ON STEEL BEAMS.
3. TOP OF STEEL IS EITHER LEVEL OR SLOPING BETWEEN NOTED ELEVATIONS.
4. ALL CANOPY HSS CONNECTIONS SHALL BE WELDED ALL AROUND. WELDED CONNECTIONS SHALL BE WATER TIGHT FULL DEPTH PARTIAL PENETRATION WELDS.
5. PURLIN RELOCATION: CONTRACTOR REQUIRED TO RELOCATE METAL BUILDING GIRTS TO ACCOMMODATE NEW OPENINGS IN EXISTING BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS AND METAL BUILDING MANUFACTURER.



PROJECT NORTH

KEY PLAN

NOT TO SCALE

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
ROOF FRAMING PLAN

ALABAMA REGISTERED PROFESSIONAL ENGINEER CRAIG WINN No. 22596
H. Craig Winn, P.E.
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C

SHEET NO:
S2.1
6 OF 7

0 1" 2"

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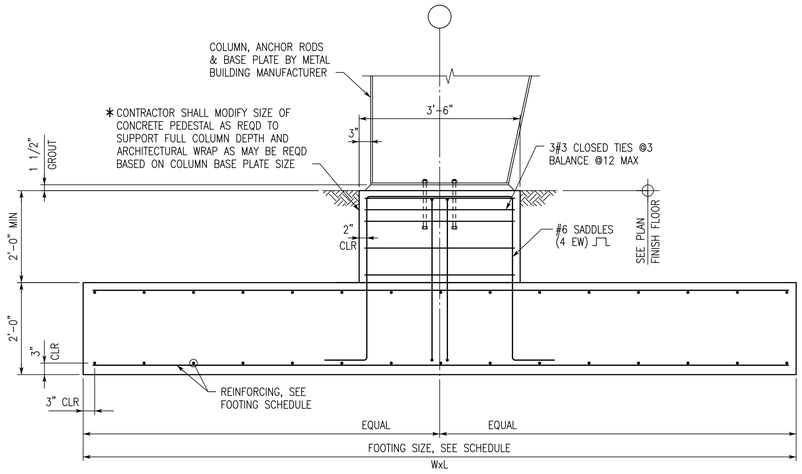
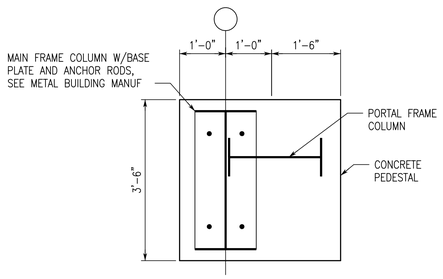
Job Number 24-140A

LATHAN
ARCHITECTS

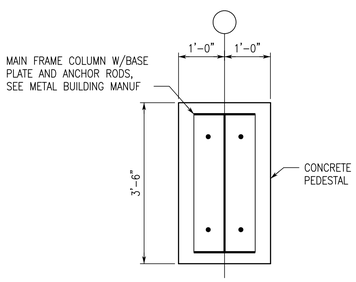


SECTION 1/S2.2
3/4"=1'-0"



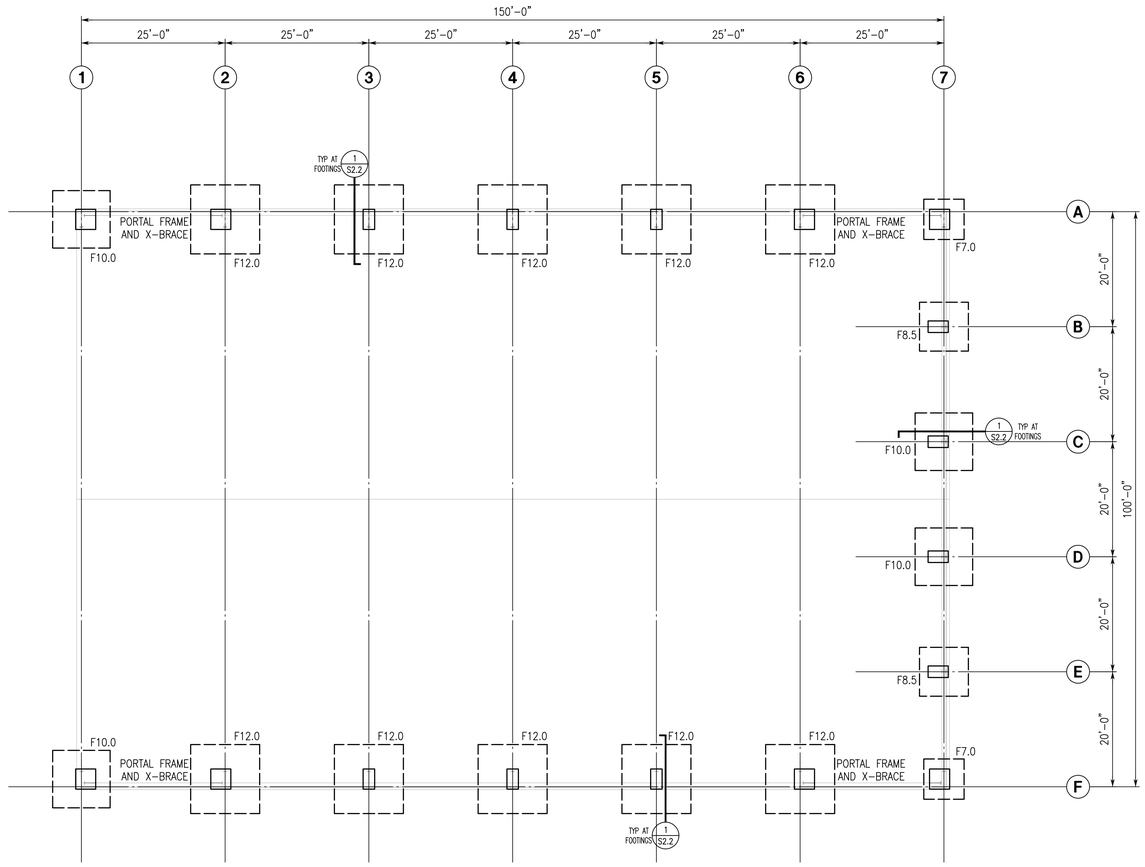
CONCRETE PEDESTAL AT MAIN COLUMN WITH PORTAL FRAME

1. CONTRACTOR SHALL MODIFY SIZE OF CONCRETE PEDESTAL AS REQUIRED TO SUPPORT FULL COLUMN DEPTH AND ARCHITECTURAL WRAP AS MAY BE REQUIRED BASED ON COLUMN BASE PLATE SIZE.



CONCRETE PEDESTAL AT MAIN COLUMN

1. CONTRACTOR SHALL MODIFY SIZE OF CONCRETE PEDESTAL AS REQUIRED TO SUPPORT FULL COLUMN DEPTH AND ARCHITECTURAL WRAP AS MAY BE REQUIRED BASED ON COLUMN BASE PLATE SIZE.



FOUNDATION PLAN
3/32"=1'-0"

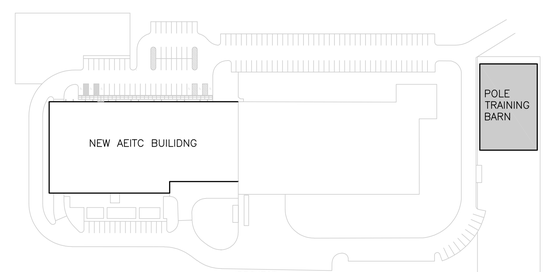
1. FINISH FLOOR ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.
3. 'FX.X' DENOTES FOOTING DESIGNATION. SEE FOOTING SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION.
4. ASSUMED BEARING PRESSURE AT SPREAD FOOTINGS: 2000 PSF PER GENERAL NOTE 3.4 AND 3.5 ON SHEET S1.0. CONTRACTOR SHALL VERIFY BEARING CAPACITY WITH GEOTECHNICAL EOR PRIOR TO BIDDING PROJECT.

PROJECT NORTH

FOOTING SCHEDULE

FOOTING DESIGNATION		F7.0	F8.5	F10.0	F12.0
FOOTING	SIZE (LxW)	7'-0"x7'-0"	8'-6"x8'-6"	10'-0"x10'-0"	12'-0"x12'-0"
	DEPTH (D)	1'-6"	1'-6"	2'-0"	2'-0"
	REINF EW (BOT)	7#5	8#6	10#6	12#6
	NOTES	1	1	1	1

NOTES:
1. PROVIDE SCHEDULED REINFORCEMENT ON TOP AND BOTTOM OF FOOTING.



PROJECT NORTH

KEY PLAN
NOT TO SCALE

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

ALABAMA REGISTERED PROFESSIONAL ENGINEER CRAIG WINN No. 22596
H. Craig Winn P.E.
12/19/2025

SHEET TITLE:
FOUNDATION PLAN - POLE TRAINING

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C

SHEET NO:
S2.2
7 OF 8

0 1" 2"

SDG
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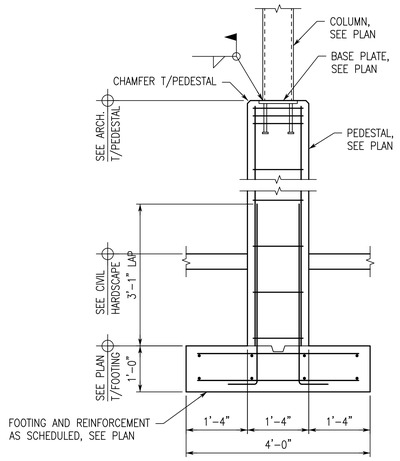
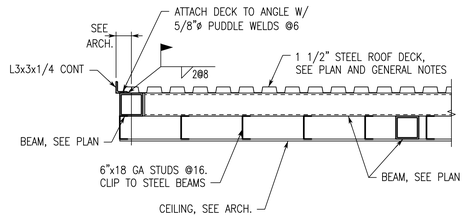
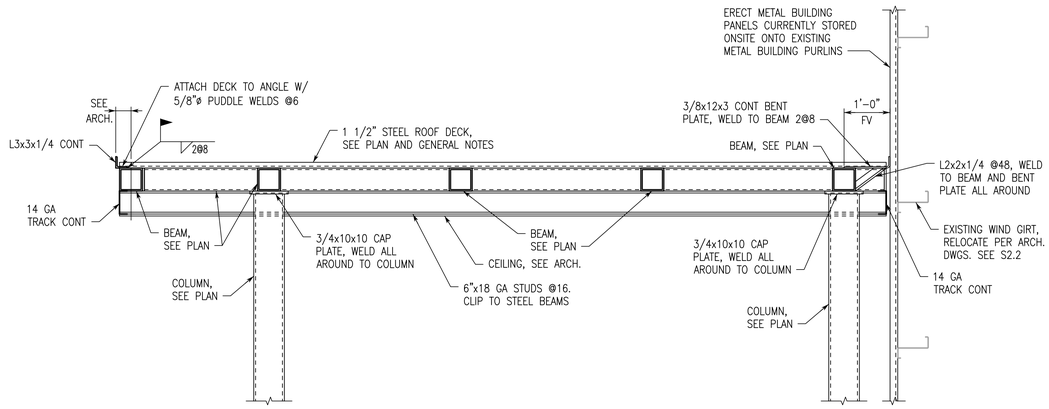
fax 205-824-5280
Job Number 24-140A



SECTION 1/S3.1
3/4"=1'-0"

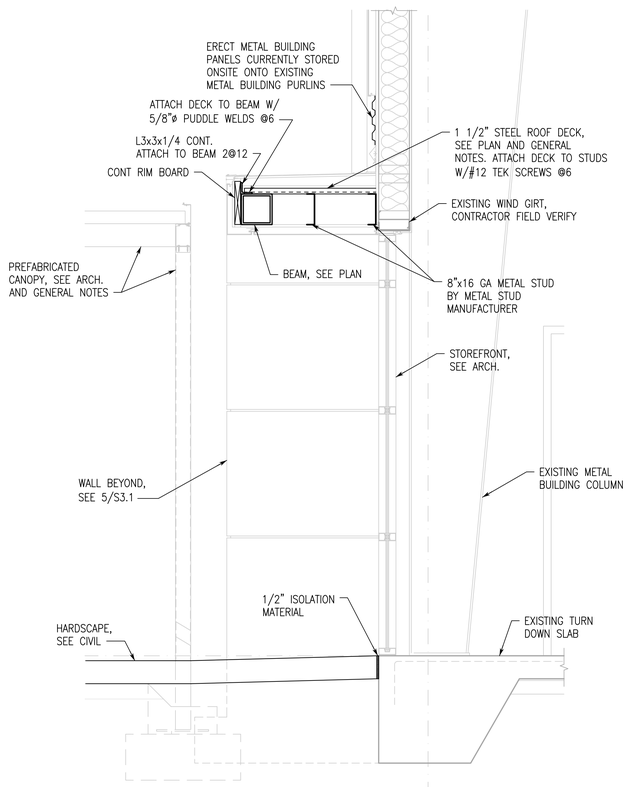


SECTION 2/S3.1
3/4"=1'-0"

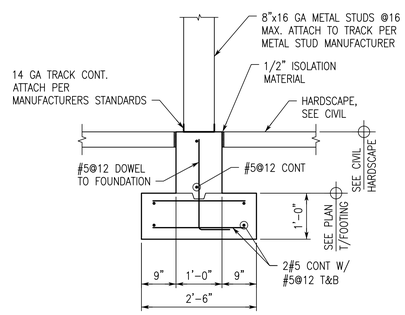


SECTION 3/S3.1
3/4"=1'-0"

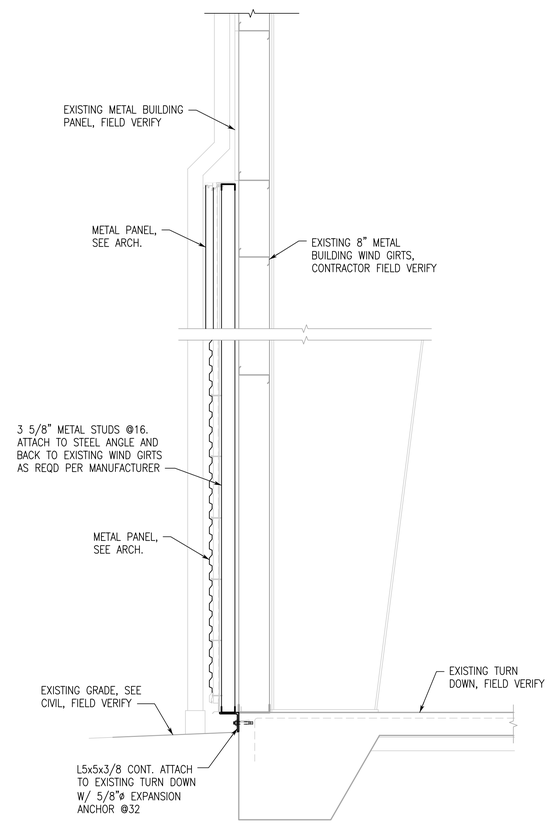
NOTE:
WELD CANOPY CONNECTIONS ALL AROUND. SEE PLAN NOTE ON S2.2.



SECTION 4/S3.1
3/4"=1'-0"



SECTION 5/S3.1
3/4"=1'-0"



SECTION 6/S3.1
3/4"=1'-0"

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
SECTIONS AND DETAILS

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 22596 CRAIG WINN
12/19/2025

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	12.19.2025
REVISIONS	

JOB NO. 24-40C
SHEET NO:
S3.1
7 OF 7
0 1" 2"

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, ELEVATION OF EXISTING STRUCTURE, CEILINGS, MECHANICAL, AND ELECTRICAL PRIOR TO INSTALLING ANY NEW PIPE.
2. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH ALL STRUCTURAL, ELECTRICAL, AND MECHANICAL FEATURES OF THE BUILDING.
3. ALL HORIZONTAL PIPING IS RUN ABOVE THE CEILING OR IN JOIST SPACE. ALL PIPING SHALL DRAIN DOWN AS REQUIRED BY NFPA 13. PIPING TO BE INSTALLED TO CONCEAL AS MUCH AS POSSIBLE.
4. INSTALL ALL FIRE PROTECTION MATERIALS IN AREAS WITH EXPOSED CEILINGS IN A NEAT FIRST CLASS MANNER. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICES. PIPING SHALL BE INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING STRUCTURE UNLESS INDICATED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROJECT ENGINEERS FOR INSPECTION AND TESTING. PROVIDE A MINIMUM OF A WEEK.
6. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR NEW WORK AREAS, CEILING HEIGHTS, SECTIONS, AND RATED WALLS.
7. CONTRACTOR RESPONSIBLE FOR COORDINATION OF PIPING WEIGHT AND LOCATION PRIOR TO INSTALLATION OF ANY PIPE.
8. PIPING LAYOUT AND SIZING SHOWN ON PLANS IS DIAGRAMMATIC AND SHOWN FOR SPACE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR LAYOUT SHOP DRAWINGS, CALCULATIONS, SUBMITTAL DATA, TESTING, OWNER TRAINING AND CERTIFYING SYSTEM MEETS NFPA 13 AND CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS DIFFERENT FROM THE SPECIFIED SPRINKLERS HEADS.
10. CONTRACTOR SHALL OBTAIN APPROVAL OF "SPRINKLER HEAD TYPE" FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS.
11. CONTRACTOR SHALL PAINT ALL EXPOSED PIPING TO MATCH STRUCTURE. COORDINATE EXACT COLOR WITH ARCHITECT.

FIRE PROTECTION HYDRAULIC DEMANDS

1. SPRINKLER PROTECTION
   A. ALL OFFICES, TEACHER WORKROOMS, LOBBIES, VESTIBULES, CLASSROOMS, TOILETS, COMMON AREAS, CORRIDORS: LIGHT HAZARD 0.10 GPM OVER HYDRAULICALLY MOST REMOTE 1500 SQ. FT.
   B. MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, GENERAL PURPOSE STORAGE LESS THAN 100 SQ. FT.: ORDINARY HAZARD, GROUP 2, 0.20 GPM OVER HYDRAULICALLY MOST REMOTE 2000 SQ. FT.
   C. GENERAL STORAGE, STORAGE HEIGHT LIMIT LESS THAN 12FT, LIMITED COMBUSTIBLES LESS THAN 25 GALLONS: ORDINARY GROUP 1 PER NFPA 13, 0.15 GPM PER 1500 SQ. FT.
2. HYDRAULIC CALCULATION SHALL BE CALCULATED WITH 10% SAFETY FACTOR OF SUPPLY CURVE.
3. FLOW DATA TO BE RESPONSIBILITY OF CONTRACTOR.

FIRE PROTECTION SHOP DRAWINGS AND SUBMITTALS

1. PROVIDE A NFPA 13 COMPLIANT SYSTEM TO PROVIDE COVERAGE TO NEW WORK AREA. CONTRACTOR RESPONSIBLE TO PROVIDE DETAILED SHOP DRAWINGS AND CALCULATIONS COMPLETE.
2. SHOP DRAWINGS SHALL INCLUDE:
   A. A REFLECTED CEILING PLAN INDICATING LOCATION OF SPRINKLER HEADS, LIGHTS, CEILING DEVICES, GRILLES, AUDIO VISUAL, AND ANY DEVICES ATTACHED TO LIFT OUT CEILINGS. ALL SPRINKLER HEADS IN LAY-IN CEILINGS TO BE CENTERED IN TILES. COORDINATE EXACT LOCATION OF SPRINKLER HEADS IN HARD CEILINGS WITH ARCHITECT AND ENGINEER.
   B. PREPARE A WORKING PIPE SHOP DRAWING BASED ON HYDRAULIC CALCULATIONS. THE PIPING DRAWINGS SHALL INDICATE THE ELEVATION OF THE PIPE, THE CONFIGURATION OF THE PIPING AND HANGERS, SIZE OF THE PIPE AND COORDINATION OF PIPING WITH OTHER DISCIPLINES, STRUCTURE AND DUCTWORK.
   C. HYDRAULIC CALCULATIONS ARE TO BE PREPARED USING A FLOW TEST WITHIN 90 DAYS.
   D. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING LOCAL AUTHORITY HAVING JURISDICTION COMMENTS FOR COMPLIANCE.
   F. ALL ADDITIONAL MATERIALS TO BE INDICATED ON SHOP DRAWINGS.
   E. ALL LOW-POINT DRAIN DOWN LOCATION AND PENETRATIONS OF BUILDING STRUCTURE TO BE INDICATED ON SHOP DRAWINGS.
3. CONTRACTOR SHALL BE LICENSED IN THE STATE IN WHICH THE WORK IS PREFORMED. THE CONTRACTOR SHALL BE A NICET LEVEL III OR LEVEL IV OR SPECIAL HAZARD SUPPRESSION SYSTEMS. THE NICET LEVEL III DESIGNER SHALL BE AN EMPLOYEE OF FIRE PROTECTION CONTRACTOR.
4. ALL ELECTRICAL FIRE ALARM REQUIREMENTS TO BE COORDINATED WITH THE ELECTRICAL THE FLOW AND TAMPER SWITCHES TO BE PROVIDED UNDER FIRE PROTECTION CONTRACT. CONDUIT, ALARM WIRING AND PROGRAMMING THE RESPONSIBILITY OF THE FIRE ALARM CONTRACT AND SHALL BE COORDINATED WITH ELECTRICAL. NICET LEVEL III DESIGNER SHALL INSPECT PROJECT.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS PRIOR TO THE START OF THE SPRINKLER SYSTEM INSTALLATION.
6. HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE AND BEAR HIS OR HER SEAL WITH SIGNATURE AND DATE.
7. MAXIMUM DESIGN VELOCITY SHALL BE 30 FEET PER SECOND.

FIRE PROTECTION DESIGN ANALYSIS

REFER TO ARCHITECTURAL PLANS FOR COMPLIANCE NFPA 101
TYPE OF CONSTRUCTION: REFER TO ARCHITECTURAL

OCCUPANCY: REFERENCE ARCHITECTURAL LIFE SAFETY PLAN

FIRE DESIGN CODES /STANDARDS

APPLICABLE CODES AND STANDARDS:
INTERNATIONAL BUILDING CODE (IBC)
INTERNATIONAL FIRE CODE (IFC)
INTERNATIONAL PLUMBING CODE (IPC)
NATIONAL ELECTRIC CODE (NEC)
NATIONAL FIRE ALARM CODE NFPA 72
NATIONAL ENERGY CODE
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 24, 101

FIRE PROTECTION FLOW DATA

HYDRANT NUMBER: UNKNOWN
STATIC PRESSURE: 112 PSI
RESIDUAL PRESSURE: 94 PSI

OUTLET COEFFICIENT: UNKNOWN
OUTLET SIZE: 2.5"
HYDRANT FLOW: 1200 GPM

AVAILABLE GPM@ 20 PSI: 6133 GPM

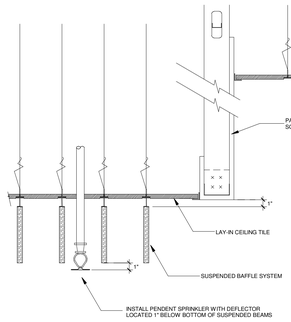
DATE OF TEST: DECEMBER 5, 2025
LOCATION: 3711 INDUSTRIAL CT. JASPER, AL

CONTRACTOR RESPONSIBLE FOR
WATER FLOW TEST

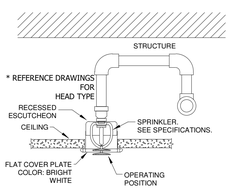
FIRE PROTECTION LEGEND

FIRE MAIN (F)	F — F
FIRE DRAIN LINE	FD — FD
BALL VALVE	
OS&Y VALVE (WITH TAMPER SWITCH)	TS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
FLOW SWITCH	FS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
	PIPE DOWN
	PIPE UP
GPM	GALLONS PER MINUTE
PSI	POUNDS PER SQUARE INCH
(S)P	FULLY RECESSED PENDENT SPRINKLER HEAD (PENDENT HEADS SHALL BE WHITE W/ WHITE ESCUTCHEON UNLESS APPROVED BY ARCHITECT)
(S)C	CONCEALED PENDENT SPRINKLER HEAD (COVER SHALL BE FACTORY PAINTED W/ COLOR APPROVED BY ARCHITECT)
(S)U	UPRIGHT SPRINKLER HEAD
S S	SIDEWALL SPRINKLER HEAD
	CONNECT TO EXISTING, FIELD VERIFY EXACT LOCATION, SIZE,

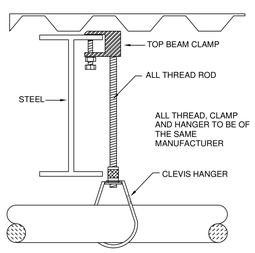
ARCHITECT TO SELECT COLORS ON ALL SPRINKLER HEADS



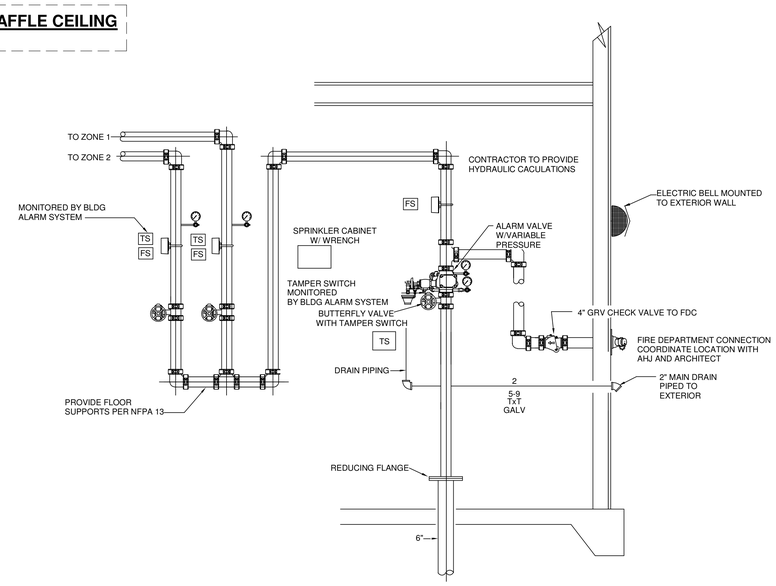
PENDENT SPRINKLER AT SUSPENDED BAFFLE CEILING
NO SCALE



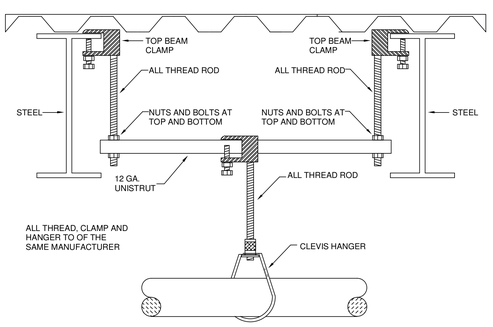
QUICK RESPONSE CONCEALED SPRINKLER
NO SCALE



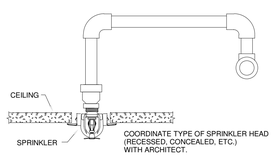
TOP BEAM CLAMP DETAIL
NO SCALE



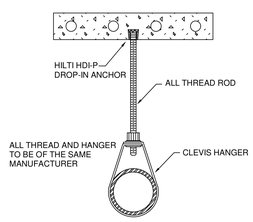
FIRE SERVICE ENTRY - BUILDING
NO SCALE



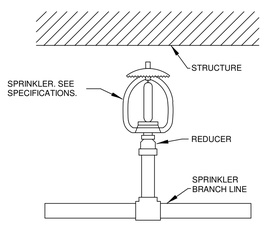
TRAPEZE HANGER DETAIL - UNISTRUT
NO SCALE



CENTER OF TILE FABRICATION AND INSTALLATION
NO SCALE



DROP-IN DETAIL
NO SCALE



QUICK RESPONSE UPRIGHT SPRINKLER
NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

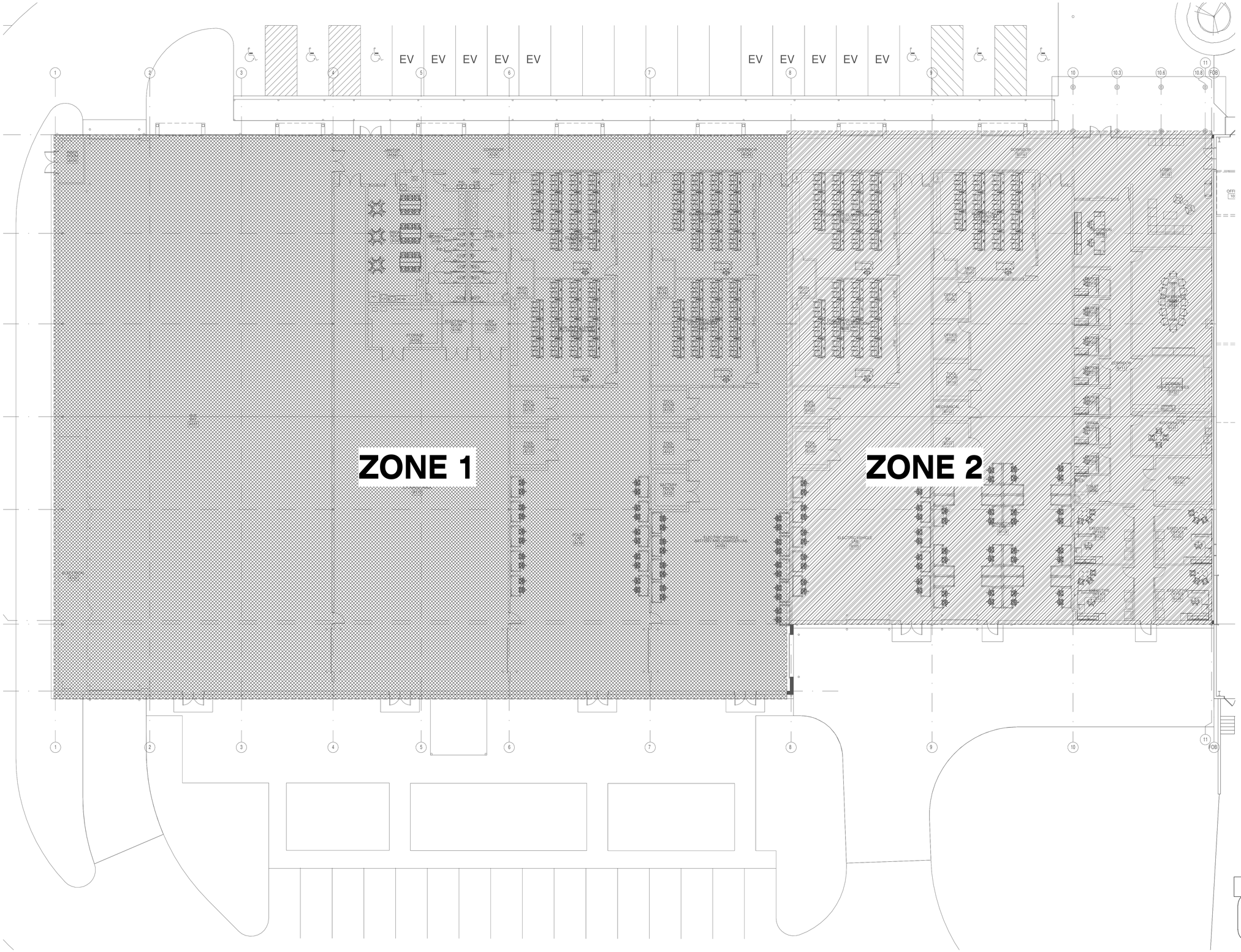
ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: FIRE PROTECTION SCHEDULES AND DETAILS

ALABAMA LICENSED NO. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C
SHEET NO: FP0.1



FIRE PROTECTION ZONE PLAN	
ZONE	SQ FT
1	33,280
2	16,888
	TOTAL: 50,168 SQ FT

1 FIRE PROTECTION - ZONE PLAN

3/32" = 1'-0"

0' 5' 10' 20'

SCALE: 3/32" = 1' - 0"

KEY PLAN

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
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50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

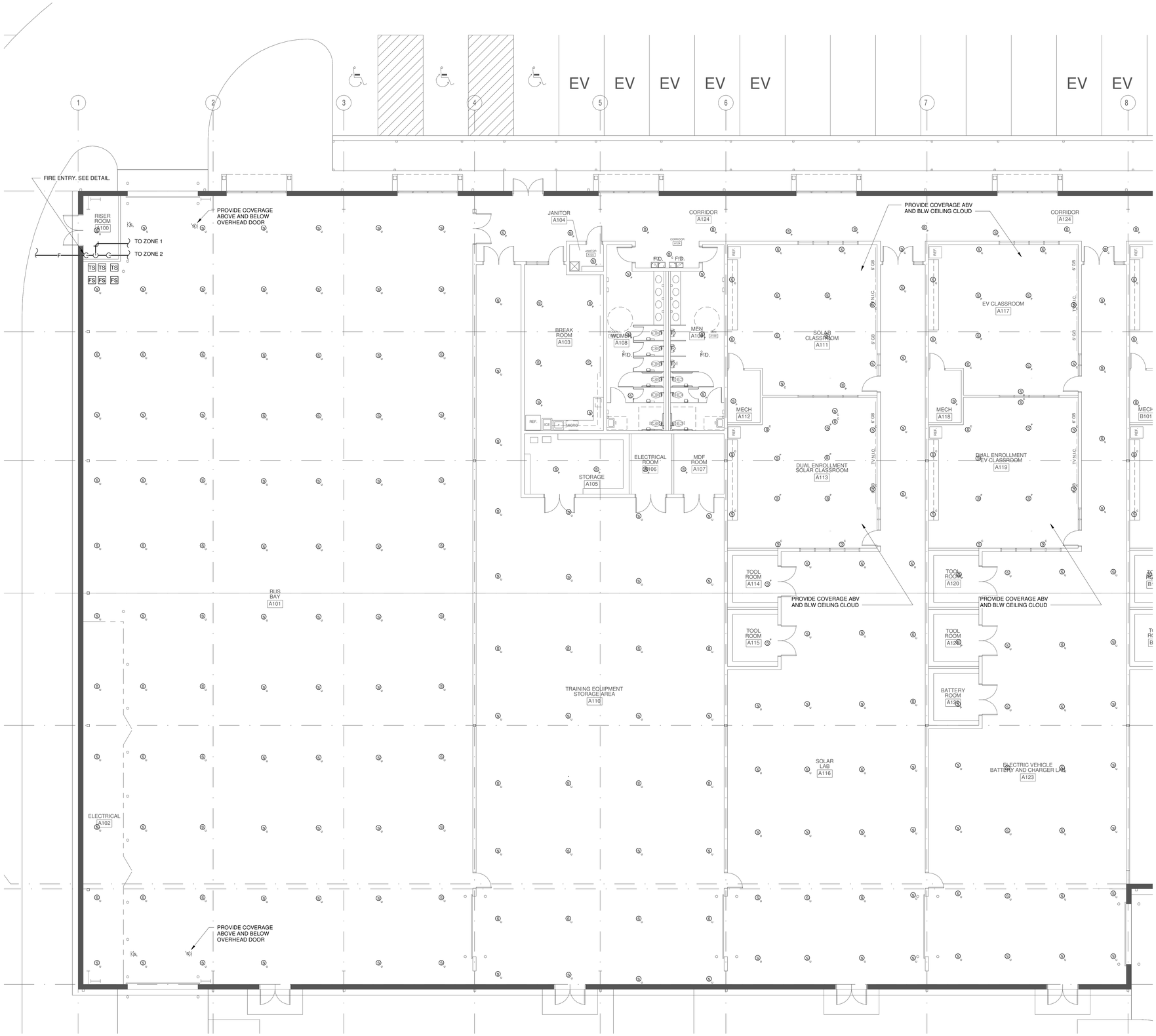
SHEET TITLE: FIRE PROTECTION - ZONE PLAN

ALABAMA LICENSED NO. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: FP0.2

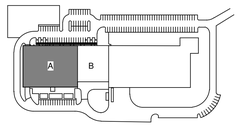


1 FIRE PROTECTION - FLOOR PLAN AREA A

1/8" = 1'-0"

0' 4' 8' 16'

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



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ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
FIRE PROTECTION - FLOOR PLAN AREA A

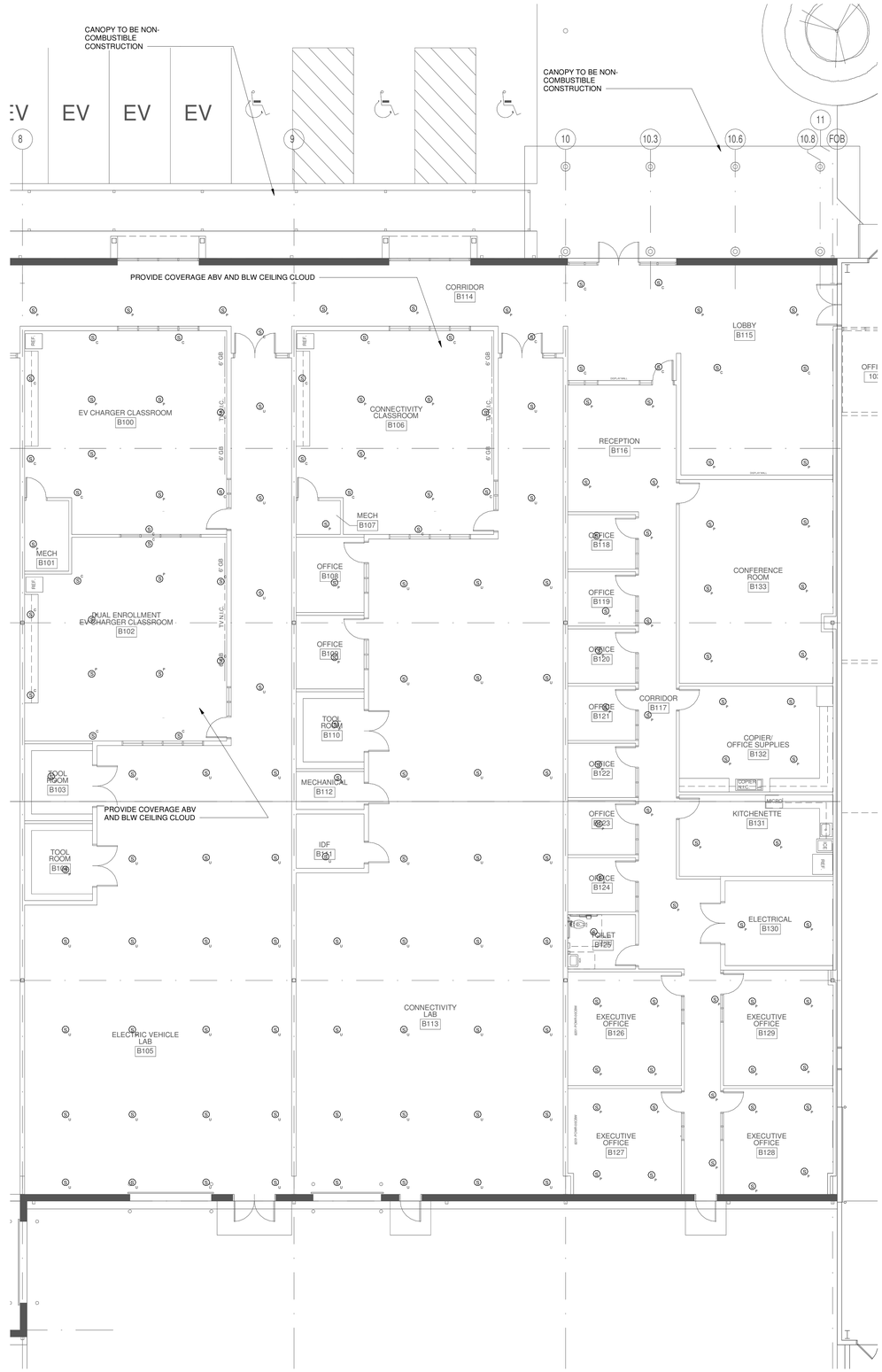
ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

FP1.0

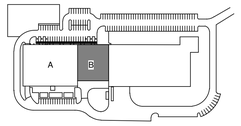


1 FIRE PROTECTION - FLOOR PLAN AREA B

1/8" = 1'-0"

0' 4' 8' 16'

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



KEY PLAN

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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
FIRE PROTECTION - FLOOR PLAN AREA B

ALABAMA LICENSED REG. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

FP1.1

GENERAL NOTES

1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
3. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X16" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL.)
4. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
5. ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
6. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
7. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
8. COORDINATE ALL PIPE ROUTING TO AVOIDE CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
9. ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
10. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
11. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANIAL AND GENERAL CONTRACTORS.
12. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
13. CONTRACTOR SHALL COORDINATE MECHANICAL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH LINES.
15. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
16. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.
17. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
18. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
19. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
20. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
21. ALL FLOOR DRAINS AND INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS WITH TRAP SEAL PROTECTION AS APPROVED BY LOCAL AUTHORITY.
22. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
23. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
24. NO JOINTS IN WATER PIPING BELOW SLAB.
25. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
26. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
27. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT, CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
28. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
29. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
30. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
31. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
32. MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
33. VENTS THRU ROOF MUST BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE.
34. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
35. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
36. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
37. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
38. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

GAS EQUIPMENT SCHEDULE

EQUIPMENT NO.	DESCRIPTION	GAS PRESSURE REGULATOR		FLOW CFH	REMARKS
		INLET	OUTLET		
AC-1	MECHANICAL EQUIPMENT	2 PSI	7" WC	800 CFH	ROUGH AND CONNECT
AC-2	MECHANICAL EQUIPMENT	2 PSI	7" WC	400 CFH	ROUGH AND CONNECT
AC-3	MECHANICAL EQUIPMENT	2 PSI	7" WC	320 CFH	ROUGH AND CONNECT
AC-4	MECHANICAL EQUIPMENT	2 PSI	7" WC	320 CFH	ROUGH AND CONNECT
AC-5	MECHANICAL EQUIPMENT	2 PSI	7" WC	320 CFH	ROUGH AND CONNECT
AC-6	MECHANICAL EQUIPMENT	2 PSI	7" WC	320 CFH	ROUGH AND CONNECT
AC-7	MECHANICAL EQUIPMENT	2 PSI	7" WC	250 CFH	ROUGH AND CONNECT
WH-1	DOMESTIC WATER HEATER	2 PSI	7" WC	199 CFH	ROUGH AND CONNECT

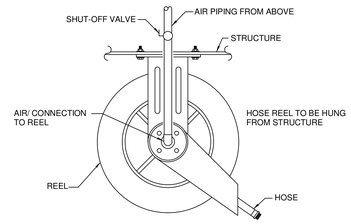
CONTRACTOR NOTE:

ITEMS IDENTIFIED AS "OWNER FURNISHED" ON THE CONSTRUCTION DOCUMENTS ARE BEING STORED BY THE OWNER AT 3611 INDUSTRIAL CT, JASPER, AL 35501.

THIS STORAGE FACILITY IS ADJACENT TO THE PROJECT LOCATION.

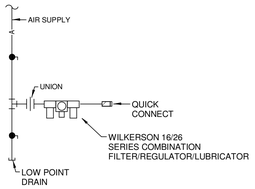
THE CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING AND TRANSPORTING ITEMS FROM THE STORAGE FACILITY TO THE JOB SITE.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DETAILS REGARDING ACCESS TO AND RECEIVING OF OWNER FURNISHED ITEMS.



DETAIL OF HOSE REEL

NO SCALE



DETAIL OF COMPRESSED AIR DROP AT EQUIPMENT

NO SCALE

PLUMBING FIXTURE SCHEDULE

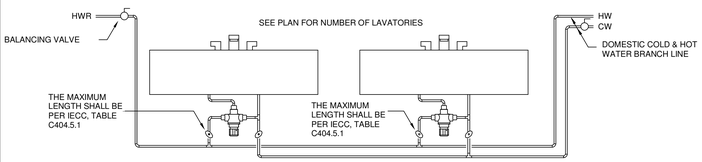
MARK	FIXTURE	WASTE	CW	HW	REMARKS
FD	FLOOR DRAIN	3"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
MFD	MECHANICAL FLOOR DRAIN	3"	-	-	J.R. SMITH #2240 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
MFD-2	MECHANICAL FLOOR DRAIN	3"	-	-	J.R. SMITH #2242 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE ZURN ZEMS6000AV-IS SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET	4"	1"	-	FLOOR MOUNTED - KOHLER K-96053-SS-0 COMPLETE ZURN ZEMS6000AV-IS SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL #2155 SSC SEAT.
P-3	URINAL - ADA COMPLIANT	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND ZURN ZEMS6000AV-IS SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE WITH YJ BRACKET. SET LIP 17" AFF.
P-4	URINAL	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND ZURN ZEMS6000AV-IS SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE WITH YJ BRACKET.
P-5	LAVATORY - ADA COMPLIANT	1 1/2"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SLOAN SF-2200-4 HARDWIRED SENSOR FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-6	LAVATORY	1 1/2"	1/2"	1/2"	UNDERMOUNT - KOHLER K-2210 COMPLETE, SLOAN SF-2200-4 HARDWIRED SENSOR FAUCET, MCGUIRE #8872 P-TRAP. MCGUIRE 165 SUPPLIES WITH STOPS. INSULATE ALL WITH "PRO-WRAP" BY MCGUIRE. PROVIDE LAWLER 570 MIXING VALVE MOUNTED BELOW LAVATORY UNLESS OTHERWISE NOTED ON THE DRAWINGS.
P-7	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-8	DOUBLE BOWL SINK	1 1/2"	1/2"	1/2"	ELKAY LRAD-331940, LK-35 STRAINERS, SYMMONS S-23-3 FAUCET. MCGUIRE #8912 P-TRAP, CONTINUOUS WASTE OUTLET, AND #165 STOPS WITH SUPPLIES.
P-9	UTILITY SINK	1 1/2"	1/2"	1/2"	ADVANCE TABCO #4-41-36, K-1 FAUCET, K-5 DRAIN, MCGUIRE #8912 P-TRAP.
P-10	EMERGENCY EYE/FACE WASH	1 1/2"	1/2"	1/2"	GBF1909. WALL MOUNTED. ROUGH AND CONNECT COMPLETE. PROVIDE WITH EMERGENCY MIXING VALVE EQUAL TO GUARDIAN G6040.
P-11	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY # EZSTL8WSSK BI-LEVEL WATER COOLER WITH BOTTLE FILLER STATION. COMPLETE WITH STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL. J.R. SMITH #834 FIXTURE SUPPORT EBC TA150 P-TRAP AND EBC LA10 STOP WITH SUPPLY. FULLY INSULATE P-TRAP WITH EBC IK INSULATOR. INSTALL WITH LOWER SPOUT OUTLET MAXIMUM 36" AFF. MUST MEET A.D.A. INSTALL WITH BOTTLE FILLER. INSTALL COMPLETE. PROVIDE WITH ELKAY MODEL #LKAPREZL CANE APRON AS REQUIRED.
P-12	HOSE REEL	-	-	-	REELCRAFT MODEL #7850 OLP COMPLETE WITH 50 FEET OF HOSE; MAXIMUM OPERATING PRESSURE OF 300 PSI. INSTALL PER MANUFACTURER'S INSTRUCTIONS. COORDINATE LOCATION AND MOUNTING HEIGHT WITH GENERAL CONTRACTOR.
P-13	REF. ICE MAKER BOX	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. PROVIDE IN WALL BEHIND REFRIGERATOR A GUY GRAY MODEL "B" 16 GAUGE ALL METAL BOX LESS DRAIN AND SUPPLIES. PROVIDE IN BOX A 1/2" BALL VALVE WITH 10 FEET OF 1/4" SOFT COPPER COILED IN BOX FOR CONNECTION TO REFRIGERATOR ICE MAKER.
P-14	ICE MACHINE	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION, ROUGH AND CONNECT COMPLETE, PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR DRAIN. PROVIDE WATTS LF99 ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-15	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.
P-16	PEDESTAL HOSE BIBB	-	3/4"	-	STERN-WILLIAMS SERIES 7000 PEDESTAL HOSE BIBB, SURFACE MOUNTED, WITH HOSE BIBB AND KEY OPERATED COVER. FROST PROOF.
P-17	DRAIN BOX	1 1/2"	-	-	PROVIDE A SIOUX CHIEF MODEL #696-3F DRAIN BOX, #696-LC LOUVERED COVER, #696-CF SECONDARY DRAINAGE FUNNEL, AND J.R. SMITH TRAP SEAL INSERT. BOX TO COME COMPLETE WITH WALL FLANGE AND LOUVER. COORDINATE WITH MECHANICAL TO RECEIVE CONDENSATE WASTE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.

WATER HEATER SCHEDULE

MARK	FIXTURE	ELEC INFO.	GAS INPUT	REMARKS
CP-1	CIRCULATION PUMP	1/6 HP, 115/1/60	-	ARMSTRONG COMPASS. PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL L6006A AND TIMER.
ET-1	EXPANSION TANK	-	-	AMTROL THERM - X-TROL #ST-12 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
WH-1	WATER HEATER	LHS-119X15	-	LOCHINVAR LHS-119X15 119 GALLON STORAGE CAPABLE OF RAISING 61 GALLONS OF WATER FROM 40F TO 140F PER HOUR. PROVIDE NEW P&T RELIEF VALVE. SET TEMPERATURE CONTROLS TO MAINTAIN WATER STRAGE TEMPERATURE OF 135F. INSTALL AS DETAILED ON DRAWINGS. COORDINATE WITH ELECTRICAL SECTION.

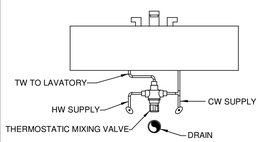
COMPRESSED AIR SCHEDULE

MARK	FIXTURE	REMARKS
AC-1	AIR COMPRESSOR	OWNER FURNISHED, CONTRACTOR INSTALLED
ACT-1	COMPRESSED AIR TANK	OWNER FURNISHED, CONTRACTOR INSTALLED
AD-1	REFRIGERATED DRYER	OWNER FURNISHED, CONTRACTOR INSTALLED



PUBLIC LAVATORY SUPPLY DETAIL

NO SCALE



DETAIL OF TMV BELOW LAVATORY

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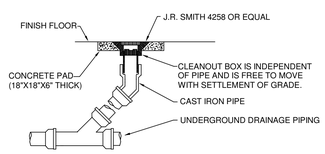
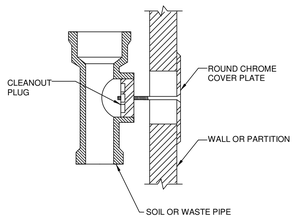


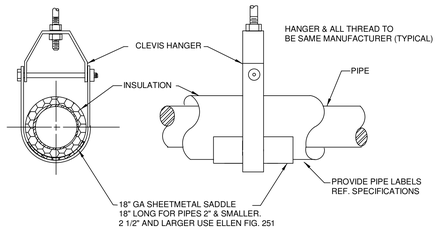
DETAIL OF CLEANOUT TO GRADE

NO SCALE



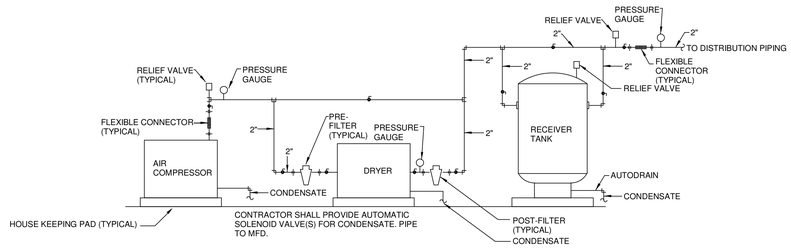
WALL CLEANOUT

NO SCALE



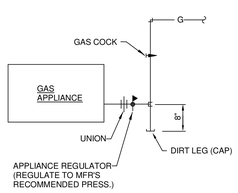
SUSPENDED PIPE SUPPORT

NO SCALE



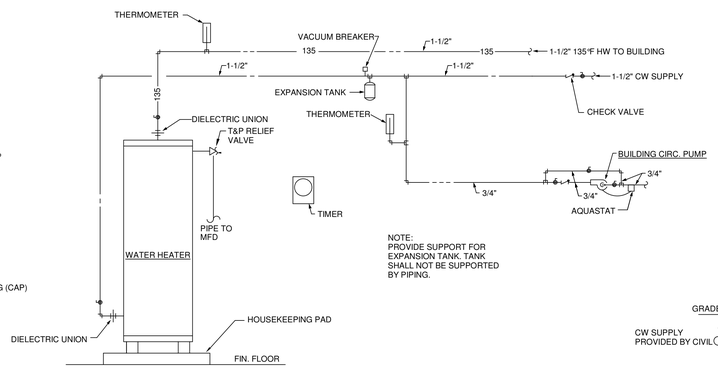
DETAIL OF PIPING AT AIR COMPRESSORS

NO SCALE



TYP. GAS CONNECTION

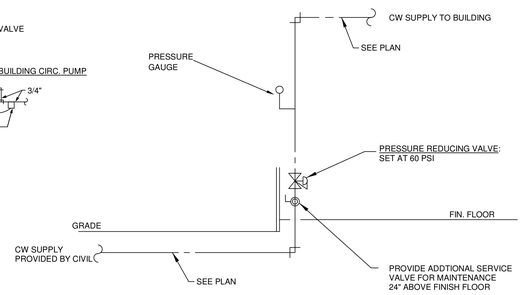
NO SCALE



NOTE:
PROVIDE SUPPORT FOR EXPANSION TANK. TANK SHALL NOT BE SUPPORTED BY PIPING.

DETAIL OF WATER HEATER

NO SCALE



DETAIL OF WATER ENTRY

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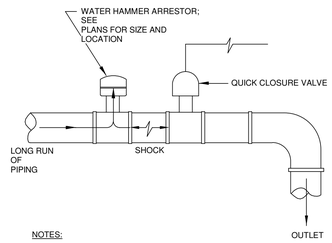

NOTES:

1. SEE PLANS FOR SIZE; WATER HAMMER ARRESTOR SIZED ACCORDING TO PLUMBING AND DRAINAGE INSTITUTE(PDI) RATING.
2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE IN WATER SUPPLY LINES TO WATER CLOSETS, LAVATORIES, SINKS AND URINALS.

WATER HAMMER ARRESTOR

NO SCALE

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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

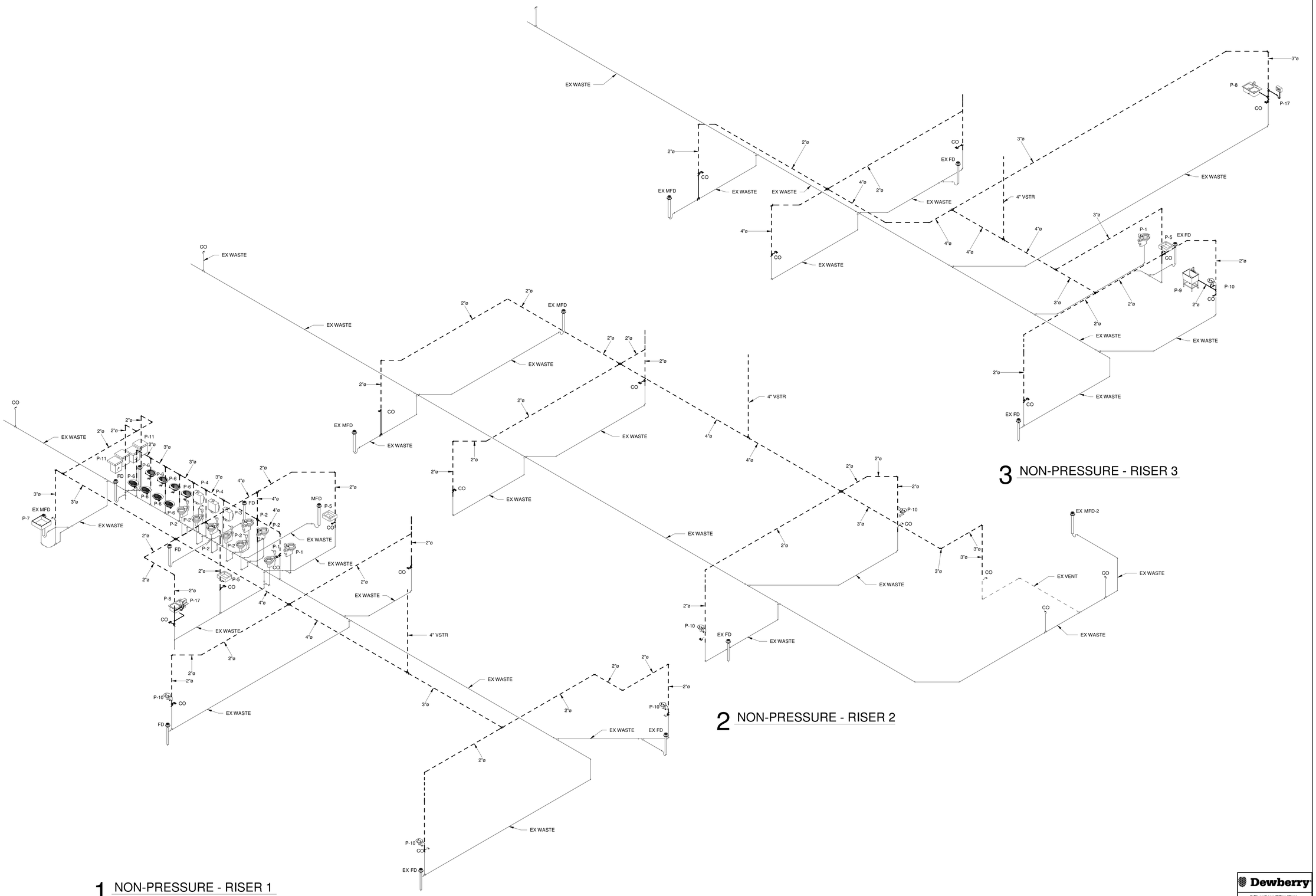
SHEET TITLE: PLUMBING SCHEDULES AND NOTES

ALABAMA LICENSED NO. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: P0.1



1 NON-PRESSURE - RISER 1

2 NON-PRESSURE - RISER 2

3 NON-PRESSURE - RISER 3

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SHEET TITLE:
NON-PRESSURE - RISERS

ALABAMA LICENSED REG. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

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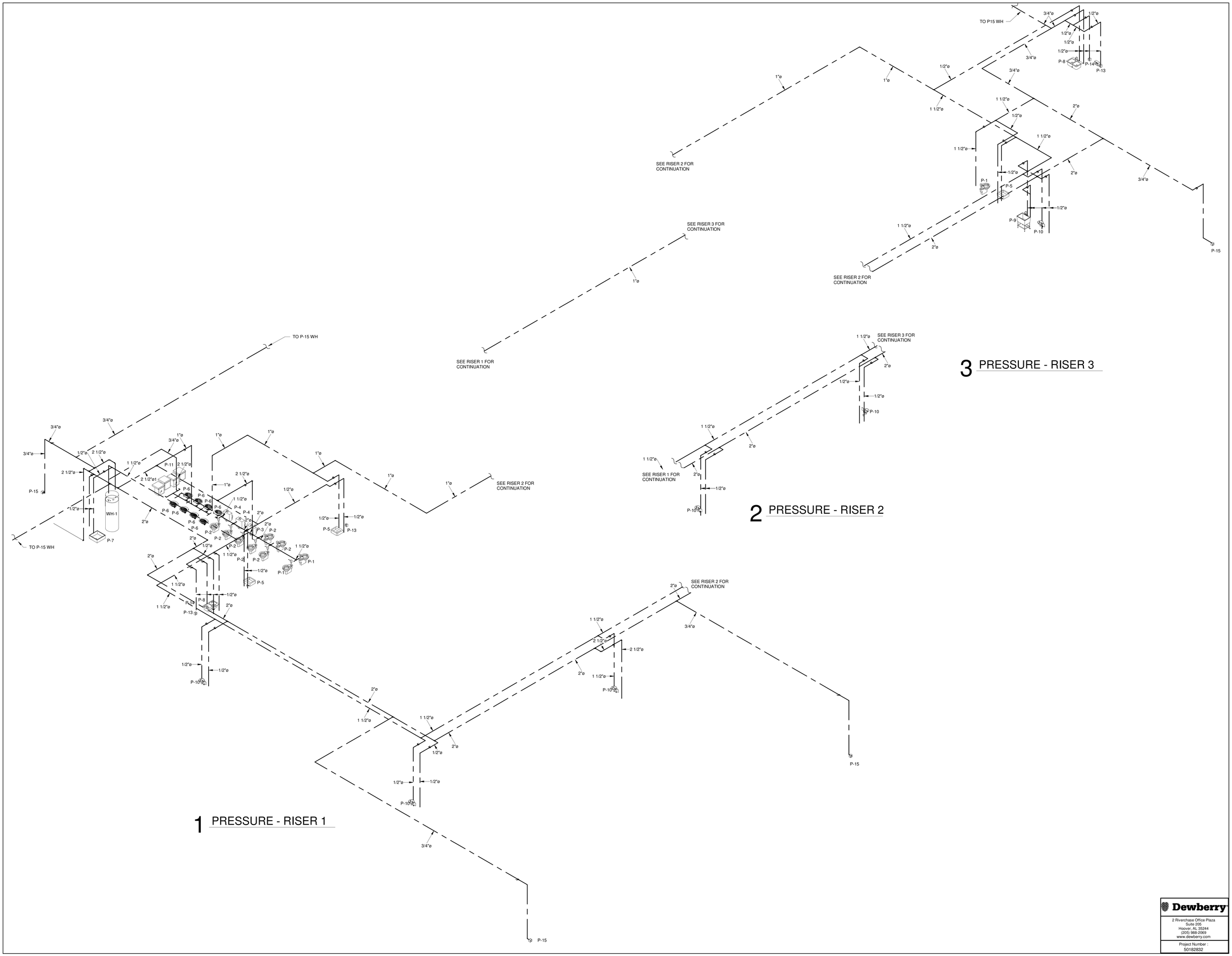

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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: PRESSURE - RISERS

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: P0.3

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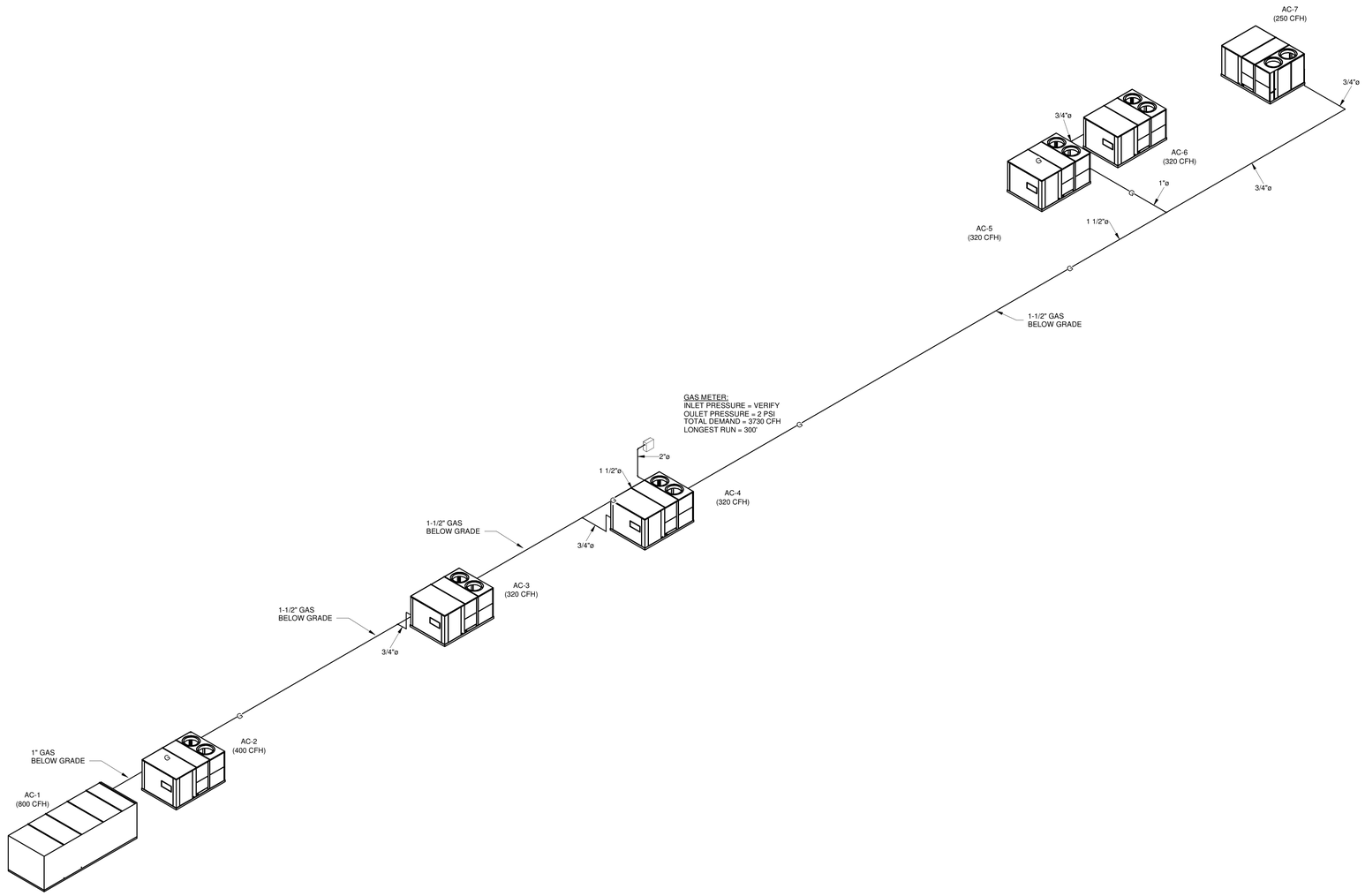

1 PLUMBING - NATURAL GAS RISER

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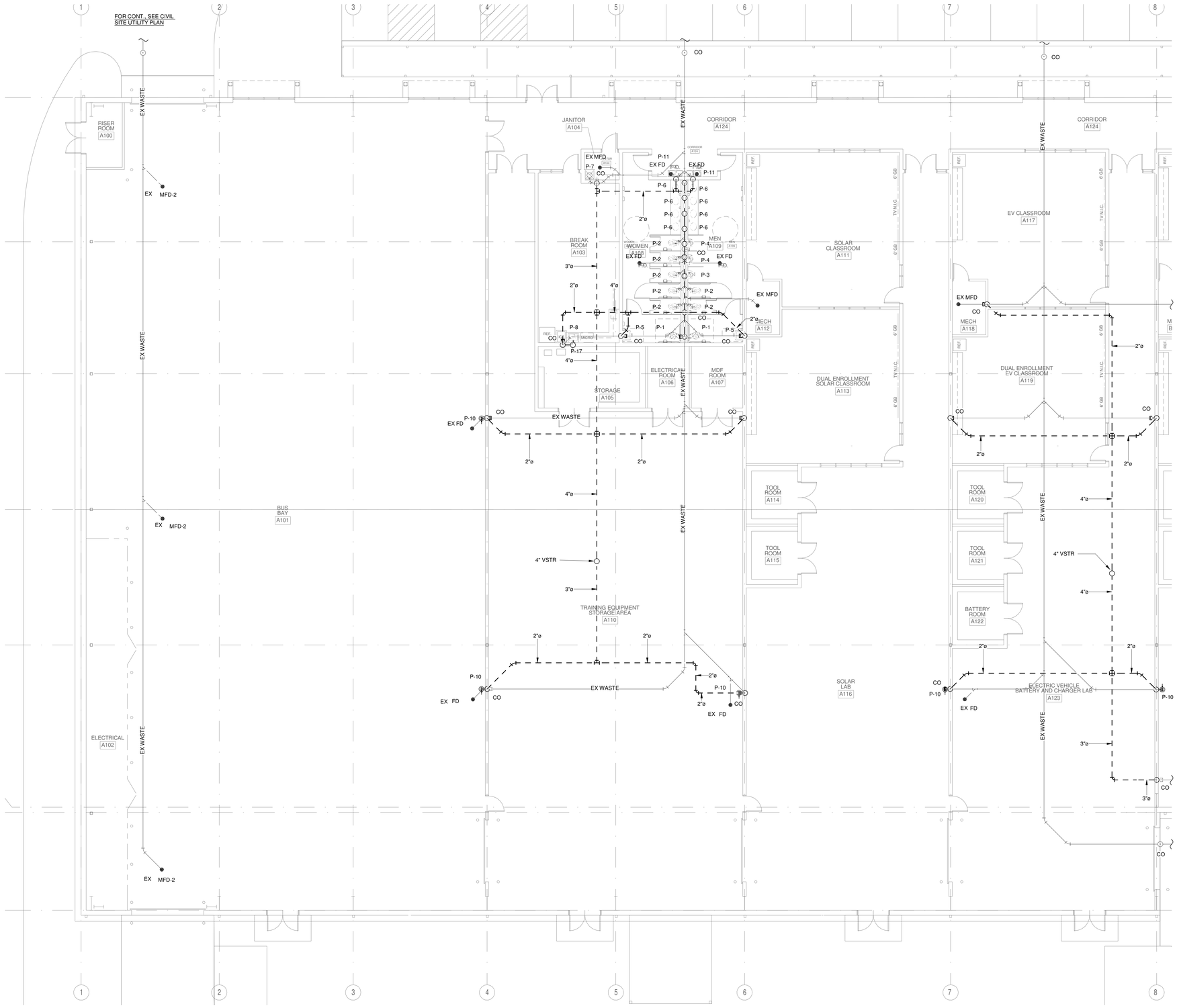
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
PLUMBING - NATURAL GAS RISER

ALABAMA
NO. 27475
PROFESSIONAL
12/19/2025
ENGINEER
CHRISTOPHER L. ROBINSON

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C
SHEET NO:
P0.4

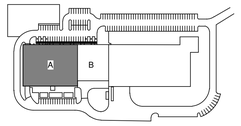


1 NON-PRESSURE - FLOOR PLAN AREA A

1/8" = 1'-0"

0' 4' 8' 16'

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



KEY PLAN

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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
NON-PRESSURE PIPING - FLOOR PLAN AREA A

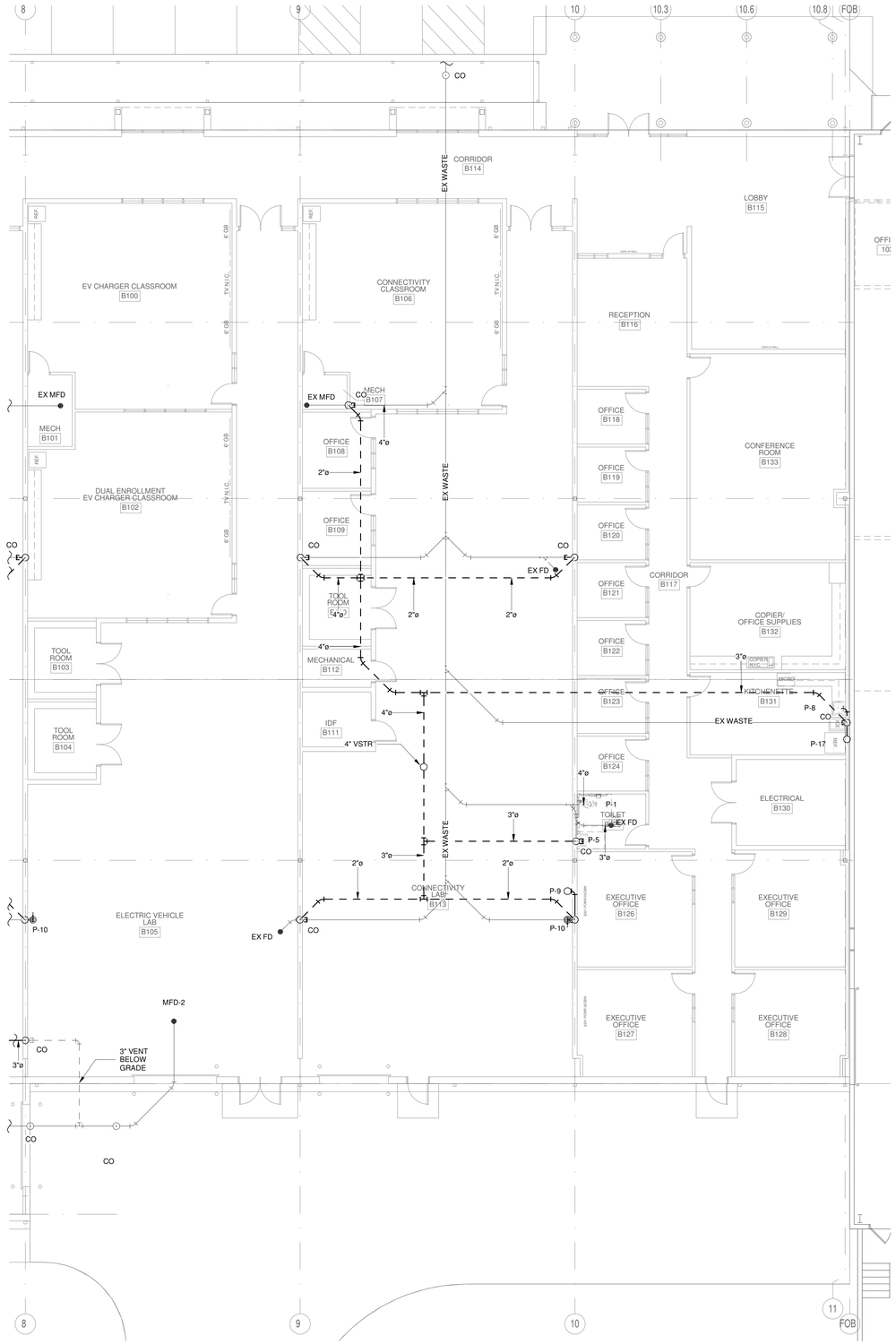
ALABAMA LICENSED NO. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

P1.1

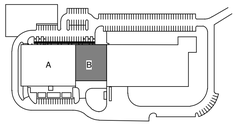


1 NON-PRESSURE - FLOOR PLAN AREA B

1/8" = 1'-0"

0' 4' 8' 16'

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



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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
NON-PRESSURE PIPING - FLOOR PLAN AREA B

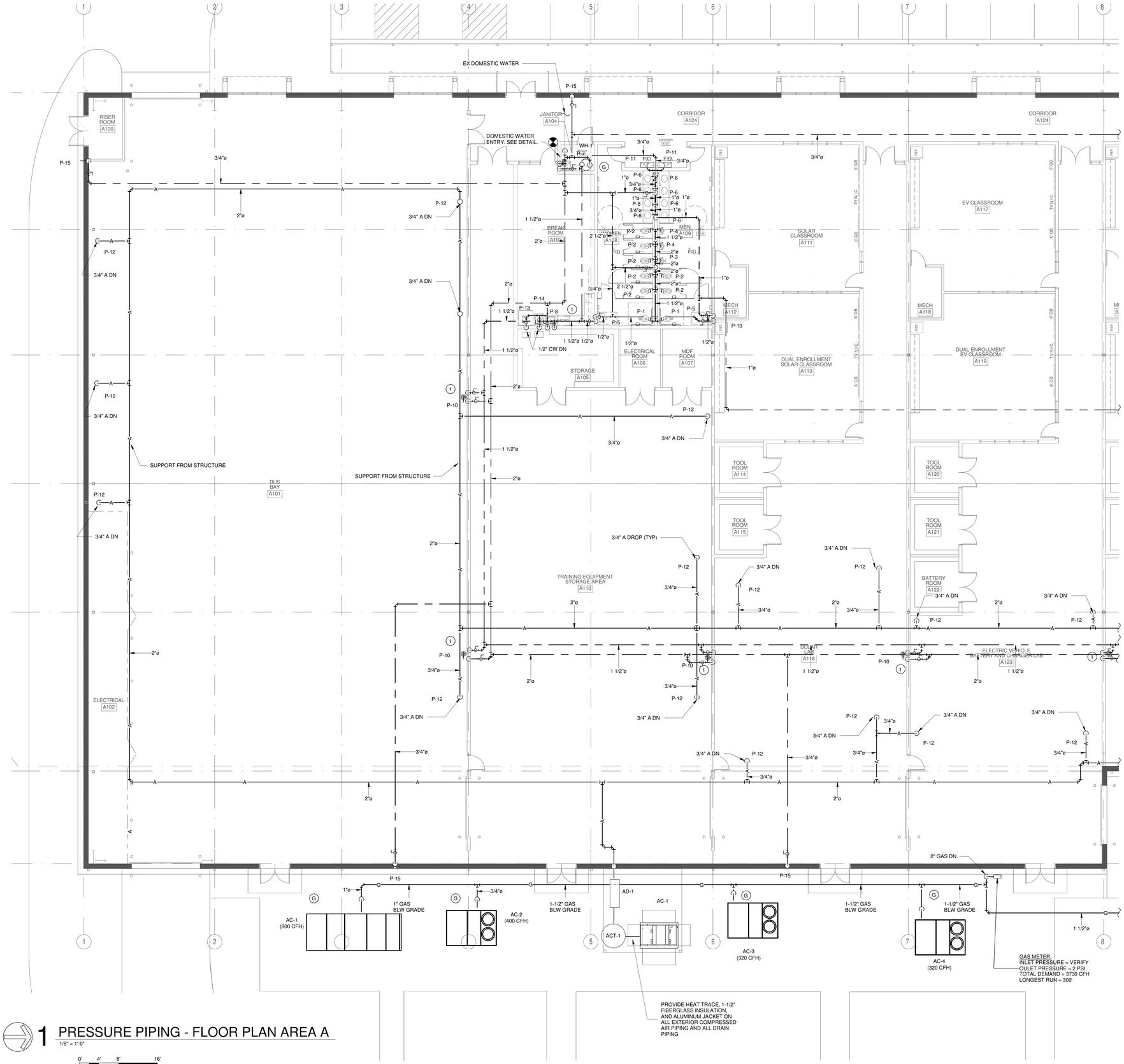
ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON
12/19/2025

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

P1.2



1 PRESSURE PIPING - FLOOR PLAN AREA A

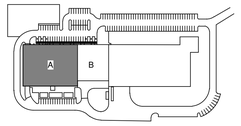
1/8" = 1'-0"

0' 4' 8' 16'

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

PRESSURE KEY NOTES

1. 1/2" CW & HW DN.
G. CONNECT TO GAS APPLIANCE.



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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

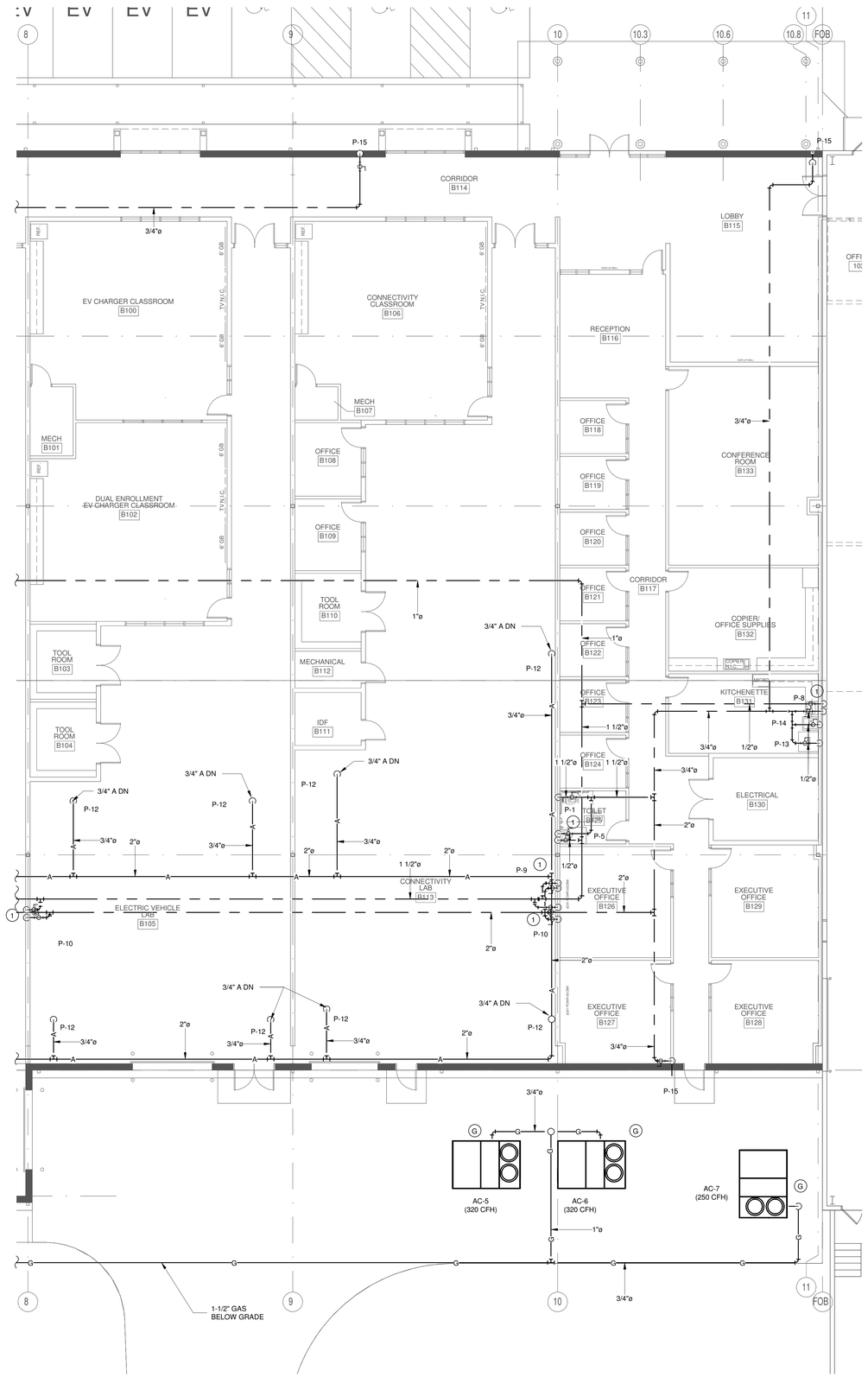
SHEET TITLE: PRESSURE PIPING - FLOOR PLAN AREA A

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 27475 CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

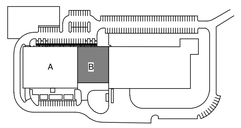
JOB NO. 24-40C

SHEET NO: P1.3



PRESSURE KEY NOTES

1. 1/2" CW & HW DN.
G. CONNECT TO GAS APPLIANCE.



KEY PLAN

1 PRESSURE PIPING - FLOOR PLAN AREA B

1/8" = 1'-0"

0' 4' 8' 16'

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

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: PRESSURE PIPING - FLOOR PLAN AREA B

ALABAMA REG. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	ADH
DRAWN:	JTR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: P1.4

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Project Number : 50182832

DUCTWORK LEGEND

(CFM) S	SUPPLY DIFFUSER
(CFM) R	RETURN GRILLE
(CFM) E	EXHAUST GRILLE
(CFM) T	TRANSFER AIR GRILLE
(CFM) SR	SIDEWALL REGISTER
ø	ROUND DUCT SYMBOL
W X H	RECTANGULAR DUCT (WIDTH X HEIGHT)
	RECTANGULAR SUPPLY DUCT TURNING UP
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
	FLAT OVAL TURNING UP.
	FLAT OVAL TURNING DOWN.
	ROUND DUCT TURNING DOWN
	ROUND DUCT TURNING UP
	MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
	RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.
	RISE OR DROP IN DUCT
	RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH MANUAL DAMPER
	CONICAL SPIN-IN WITH MANUAL DAMPER
MD	MANUAL DAMPER
FD	FIRE DAMPER (PROVIDE ACCESS DOOR)
AD	AUTOMATIC DAMPER
SFD	COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CO2 MONITOR

HVAC ABBREVIATIONS

A	Amps
AAV	Automatic Air Vent
ACF	Air Curtain Fan
AC	Air Conditioning
ACCU	Air Cooled Condensing Unit
AD	Automatic Damper
ADJ	Adjustable
AF	Airflow
AFF	Above Finished Floor
AFM	Air Flow Monitor
AHU	Air Handling Unit
AI	Analog Input
AMB	Ambient
AO	Analog Output
AP	Air Purifier
ARCH	Architectural
AS	Air Separator
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers
ATV, AV	Atmospheric Vent
B	Boiler
BAS	Building Automation System
BBD	Boiler Blowdown
BD	Backdraft Damper
BHP	Brake Horsepower
BI	Binary Input
BMS	Building Management System
BO	Binary Output
BOD	Bottom of Duct
BT	Buffer Tank
BTU	British Thermal Unit
BTUH	British Thermal Unit per Hour
C / CD / CO2	Carbon Dioxide
C	Convertor
CA	Compressed Air
CCC	Closed Circuit Cooler
CCU / CU	Condensing Unit
CD	Condensate Drain
CF	Chemical Feeder
CFM	Cubic Feet per Minute
CH	Chiller
CHC	Chilled Water Coil
CHWP / CHP	Chilled Water Pump
CHWR / CHR	Chilled Water Return Piping
CHWS / CHS	Chilled Water Supply Piping
CO	Carbon Monoxide
CONT	Controls , or , Continue
CP	Condensate Pump
CRU / CRAC	Computer Room Unit
CR	Condensate Return
CRU	Condensate Return Unit (Steam System)
CT	Cooling Tower
CT	Current Transducer
CU	Condensing Unit
CUH	Cabinet Unit Heater
CV	Constant Volume
Cv	Valve Coefficient
CVR	Constant Volume - Reheat
CDWP / CWP	Condenser Water Pump
CWR	Condenser Water Return Piping
CWS	Condenser Water Supply Piping
D	Drain Piping
DB	Dry Bulb
DBL	Double
DBF	Dryer Booster Fan
DEG	Degree
DG	Door Grille
DI	Digital Input
DIA	Diameter
DL	Drum Louver
DMSS	Ductless Mini-split System
DN	Down
DO	Digital Output
DOAS	Dedicated Outdoor Air System (No Wheel)
DP	Differential Pressure Sensor
DRE	Dryer Exhaust
DSD	Duct Smoke Detector
DTR	Dual Temperature Water Return
DTS	Dual Temperature Water Supply
DWG	Drawing
DWH	Dishwasher Hood
DWH	Domestic Water Heater
E	Exhaust Grille
EA	Exhaust Air
EAT	Entering Air Temp
EBH	Electric Baseboard Heater
ECH	Electric Cabinet Heater
ECH	Electric Ceiling Heater
ECM	Electronically Commutated Motor
EDH	Electric Duct Heater
EF	Exhaust Fan
EHC	Electric Heating Coil
ELEC	Electrical
EMCS	Energy Management Control System
EMG	Expanded metal grille
ENT	Entering
ERU	Energy Recovery Unit (with cooling or heating)
ERV	Energy Recovery Ventilator (no cooling or heating)
ESP	External Static Pressure
ET	Expansion Tank
ETC	Etcetera
EUH	Electric Unit Heater
EWH	Electric Wall Heater
EWT	Entering Water Temperature
EX / (X) / E	Existing
F	Degrees Fahrenheit
FCU	Fan Coil Unit
FD	Fire Damper
FOR	Fuel Oil Return
FOS	Fuel Oil Supply
FPI	Fins Per Inch
FPM	Feet Per Minute
FS	Flow Switch
FT	Foot / Feet
FV	Face Velocity
FZ	Freezestat
GA	Gauge
GAL	Gallons
GALV	Galvanized
GC	General Contractor
GCHR	Chilled Water Return Piping with Glycol
GCHS	Chilled Water Supply Piping with Glycol
GDH	Gas Duct Heater
GEO	Geothermal
GHWR	Hot Water Return Piping with Glycol
GHWS	Hot Water Supply Piping with Glycol
GPH	Gallons Per Hour
GPM	Gallons Per Minute
GSHP	Ground Source Heat Pump
GUH	Gas Fired Unit Heater
H	Humidity Sensor , Humidifier, or Height
H2O	Water
HD	Head
HOA	Hand-Off-Auto
HP	Horsepower, Heat Pump
HPC	High Pressure Condensate
HPR	High Pressure Steam Return
HPS	High Pressure Steam Supply
HRR	Heat Recovery Return
HRS	Heat Recovery Supply
HVAC	Heating, Ventilation, and Air-Conditioning
HWC	Hot Water Coil
HWP	Hot Water Pump
HWR	Hot Water Return
HWS	Hot Water Supply
HWT	Heating Water Temperature
HX	Heat Exchanger - plate and frame or shell and tube
ID	Inside Diameter
IN	Inches
IPLV	Integrated Part Load Value
IRH	Infra-Red Radiant Heater
KEF	Kitchen Exhaust Fan
KGH	Kitchen Grease Hood
KRH	Kitchen Range Hood
KW	Kilowatt
L	Louver
LAT	Leaving Air Temperature
LBS	Pounds
LF	Linear Feet
LIN	Linear
LPC	Low Pressure Condensate
LPR	Low Pressure Steam Return
LPS	Low Pressure Steam Supply
LRA	Locked Rotor Amps
LSD	Linear Slot Diffuser
LVG	Leaving
LWT	Leaving Water Temperature
M	Fan / Pump Motor, or Motorized Damper, or Meter
MA	Mixed Air
MAT	Mixed Air Temperature
MAU / MUA	Make-up Air Unit
MAX	Maximum
MBH	1,000 British Thermal Units per Hour
MCA	Minimum Circuit Amps
MD	Manual Damper
MERV	Minimum Efficiency Reporting Value
MFD / FD	Mechanical Floor Drain
MFG	Manufacturer
MIN	Minimum
MOCP	Maximum Overcurrent Protection
MPC	Medium Pressure Condensate
MPS	Medium Pressure Steam
MU	Make-up Water
NC	Normally Closed or Noise Criteria
NG	Natural Gas
NO	Normally Open or Number
NPLV	Non-Standard Part Load Value
NPSH	Net Positive Suction Head
NTS	Not To Scale
OSA / OA	Outside Air
OAT	Outdoor Air Temperature
OD	Outside Diameter
OS	Occupancy Sensor
P	Pressure or Pressure Sensor
PD	Pressure Drop
PH	Phase
PHC	Preheat Coil
PIU	Fan Powered Terminal Unit
PPM	Parts Per Million
PR / PCR	Pumped Condensate Return (Steam System)
PRS	Steam Pressure Reducing Station
PSI	Pounds per Square Inch
PSIA	PSI Atmospheric
PSIG	PSI Gauge
PRV	Pressure Reducing Valve
PTAC	Packaged Terminal Air Conditioner
PTHP	Packaged Terminal Heat Pump
QTY	Quantity
R	Return Grille
R	Radius, Rise, or Remove
RA	Return Air
RAT	Return Air Temperature
RCP	Reflected Ceiling Plan
RD	Refrigerant Discharge
RF	Return Fan, Relief Fan
RF	Refrigerant
RH	Relative Humidity, Reheat
RHC	Reheat Coil
RL	Refrigerant Liquid Line
RLA	Rated Load Amps
RPM	Revolutions Per Minute
RS	Refrigerant Suction Line
RTU	Roof Top Unit
S	Supply Diffuser
S	Air / Dirt Separator
SA	Supply Air
SA / DSA	Duct Mounted Sound Attenuator
SAT	Supply Air Temperature
SCH	Schedule
SD	Smoke Damper
SEC	Seconds
SEF	Smoke Exhaust Fan
SF	Supply Fan, Square Foot
SFD / FSD	Combination Smoke & Fire Damper
SP	Static Pressure
SR	Supply Register
SS	Split System, Stainless Steel
T&P	Temperature and Pressure
T	Thermostat or Temperature Sensor
T	Transfer Grille
T, TEMP	Temperature
T-STAT	Thermostat
TON	Cooling Tons (12,000 BTUH)
TD	Transfer Duct
TOD	Top of Duct
TS	Temperature Sensor
TSP	Total Static Pressure
TYP	Typical
UH	Unit Heater
UNO	Unless Noted Otherwise
UV	Unit Ventilator
V, VOLT	Voltage
V	Volume
VEL	Velocity
VF	Ventilation Fan
VFD	Variable Frequency Drive
VAV	Variable Air Volume
VVR	Variable Volume - Reheat
W	Width or Watts
W/	With
WB	Wet Bulb
WC	Water Column
WG	Water Gauge
WEG	Wall Exhaust Grille
WH	Wall Hydrant
WER	Wall Exhaust Register
WPD	Water Pressure Drop
WRG	Wall Return Grille
WRR	Wall Return Register
WSHP	Water Source Heat Pump
X	Uncorrected Fraction of Outdoor Air (System)
Y	Corrected Fraction of Outdoor Air (System)
Z	Fraction of Outdoor Air (Critical Space)

HVAC CONTROLS LEGEND

T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CO2 MONITOR
G	GAS DETECTION MONITOR
CP	120V HVAC CONTROLS POWER
TS	AVERAGING TEMPERATURE SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR
AO	ANALOG OUTPUT
AI	ANALOG INPUT
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
DSD	DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.
HOA	HAND-OFF-AUTO MAGNETIC STARTER
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
	INTERLOCK WITH FIRE ALARM SYSTEM
M	FAN/PUMP MOTOR
VFD	VARIABLE FREQUENCY DRIVE
CT	CURRENT TRANSDUCER
FS	FLOW SWITCH
	DIRECTION OF FLOW
TS	PIPE MOUNTED TEMPERATURE SENSOR
	2-WAY AUTOMATIC VALVE
	3-WAY AUTOMATIC VALVE
H-O-A	HAND-OFF-AUTO SWITCH
AFM	AIR FLOW MONITOR. (PROVIDE ACCESS DOOR AT EACH AIR FLOW MONITOR.)

PIPING LEGEND

D	DRAIN PIPING
	PIPE TURNING UP.
	PIPE TURNING DOWN.
	BRANCH OFF TOP OF MAIN.
	BRANCH OFF BOTTOM OF MAIN.
	BRANCH OFF SIDE OF MAIN.
	ECCENTRIC REDUCER
	UNION
	SLOPE DOWN IN DIRECTION OF ARROW.

HVAC GENERAL NOTES

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS AND CONDITIONS EXISTING IN THE FIELD. MECHANICAL DRAWINGS INDICATE GENERALLY THE LOCATION OF COMPONENTS AND ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE WORK TO BE PERFORMED.

2. FOLLOW THE DRAWINGS CLOSELY, COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS OF SYSTEM COMPONENTS.

3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

4. MAKE NO CHANGES WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. IN CASE OF DOUBT, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING WITH WORK. FAILURE TO FOLLOW THIS INSTRUCTION SHALL MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND RESPONSIBLE FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.

5. DO NOT SCALE DRAWINGS TO LOCATE DIFFUSERS AND EQUIPMENT. COORDINATE WITH NEW AND EXISTING LIGHTING, ELECTRICAL CONDUIT, AND ALL EXISTING FIELD CONDITIONS.

6. PRIOR TO PREPARING SUBMITTALS, VERIFY ALL EQUIPMENT VOLTAGES WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ORDERING EQUIPMENT. ANY FAILURE TO DO SO WILL MAKE THE MECHANICAL CONTRACTOR RESPONSIBLE FOR ANY EQUIPMENT ORDERED WITH THE INCORRECT VOLTAGE.

7. PROTECT MECHANICAL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, CLEAN EQUIPMENT AS REQUIRED AND PROVIDE ALL NEW FILTERS.

8. INSTALL ALL EQUIPMENT TO PROVIDE NORMAL SERVICE ACCESS TO ALL COMPONENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING.

9. FURNISH ACCESS DOORS FOR VALVES, FIRE DAMPERS, DAMPERS, CONTROLS, AIR VENTS, TRAP CLEAN OUTS, AND OTHER ITEMS LOCATED ABOVE NON-LIFTOUT CEILINGS OR BEHIND PARTITIONS OR WALLS. PROVIDE FIRE DAMPERS IN DUCTWORK, GRILLES, AND REGISTERS WITH FIRE RATING EQUAL TO RATING OF WALL OR CEILING. ALL FIRE DAMPERS MAY OR MAY NOT BE SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL FIRE RATED WALL AND CEILING LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS.

10. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS (SEE SPECIFICATIONS).

11. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROLS POWER TO NECESSARY CONTROL PANELS.

12. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROL POWER FOR VAV TERMINAL UNIT CONTROLS, AUTOMATIC CONTROL VALVES, AND AUTOMATIC DAMPER ACTUATORS.

13. PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL BAS CONTROLS SYSTEM.

14. COORDINATE EXACT LOCATION OF ALL WALL MOUNTED DEVICES (THERMOSTATS, HUMIDITY SENSORS, ETC.) WITH ARCHITECT PRIOR TO ROUGH IN. ALL WALL MOUNTED DEVICES SHALL BE INSTALLED 48"A.F.F. TO THE TOP OF THE DEVICE.

15. COORDINATE EXACT LOCATION ON WALL OF ALL WALL MOUNTED SUPPLY AND RETURN GRILLES/REGISTERS WITH ARCHITECT. WALL MOUNTED SUPPLY AND RETURN GRILLES/REGISTERS SHALL BE PAINTED BY OTHERS.

16. COORDINATE ALL DUCT DETECTORS, LOW VOLTAGE WIRING TO ASSOCIATED PROGRAMMING WITH FIRE ALARM CONTRACTOR TO PROVIDE A FULLY FUNCTIONING SYSTEM. VERIFY PROPER OPERATION OF ALL EXISTING DUST SMOKE DETECTORS. REPLACE AS REQUIRED. UPON SENSING SMOKE THE DUCT DETECTOR SHALL SHUT DOWN THE RESPECTIVE UNIT.

AIR DEVICE LEGEND

MARK	EXAMPLE	DESCRIPTION	SIZE	BASIS OF DESIGN
"S"	200S / CFM	PLAQUE FACE CEILING DIFFUSER WITH ROUND NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE ROUND NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM — NECK SIZE — RUN-OUT SIZE 0 - 100 — 6" — 6" 101 - 200 — 8" — 8" 201 - 300 — 10" — 10" 301 - 500 — 12" — 12" 501 - 750 — 15" — 15" 751 - 1000 — 18" — 18"	TITUS OMNI
"LD"	200LD / CFM	LOUVER FACE CEILING DIFFUSER WITH SQUARE NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE SQUARE NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM — NECK SIZE — RUN-OUT SIZE 0 - 100 — 6"x6" — 6" 101 - 200 — 9"x9" — 8" 201 - 300 — 12"x12" — 10" 301 - 500 — 15"x15" — 12" 501 - 750 — 18"x18" — 15" 751 - 1000 — 21"x21" — 18"	TITUS TDCA-AA
"R", "E", "T"	200R / CFM; R24 / SQUARE NECK SIZE	CEILING MOUNTED RETURN (R), EXHAUST (E), OR TRANSFER (T) EGGCRATE GRILLE. ALL GRILLES IN A LAY-IN CEILING TO HAVE A 24X24 CEILING PANEL.	CFM SHOWN ON PLANS. NECK SIZED PER THE FOLLOWING: CFM — NECK SIZE 0 - 100 — 6x6 101 - 200 — 8x8 201 - 350 — 10x10 351 - 500 — 12x12 501 - 750 — 14x14 751 - 950 — 16x16 951 - 1200 — 18x18 1201 - 1500 — 20x20 1501 - 2000 — 24x24	TITUS 50F
SR	SR12X6 / 200 / CFM / W x H	SIDEWALL SUPPLY REGISTER.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 272FL
WRG / WTG	WRG12X6 / 200 / CFM / W x H	WALL RETURN GRILLE / WALL TRANSFER GRILLE.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 350FL
DL	DL12X6 / 200 / CFM / W x H	DRUM LOUVER	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS DL
BRG	BRG12X6 / 200 / CFM / W x H	HEAVY DUTY RETURN BAR GRILLE	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 33RL
LSD	LSD (2) / 200 CFM / CFM / # OF SLOTS	48" LINEAR SLOT DIFFUSER WITH 48" PLENUM, UNLESS OTHERWISE NOTED. SLOT WIDTH SHALL BE 1" UNLESS OTHERWISE NOTED.	8" RUNOUT UNLESS NOTED OTHERWISE.	TITUS ML
LSR	LSR (2) / # OF SLOTS	48" LINEAR SLOT RETURN WITH 48" PLENUM, UNLESS OTHERWISE NOTED. SLOT WIDTH SHALL BE 1" UNLESS OTHERWISE NOTED.	NO RUNOUT.	TITUS MLR

NOTES:

1. SEE SPECIFICATIONS FOR FINISH AND CONSTRUCTION MATERIAL FOR EACH AIR DEVICE.
2. COORDINATE WITH ARCHITECT'S CEILING PLAN FOR LAY-IN OR SURFACE MOUNTING OF CEILING MOUNTED AIR DEVICES.
3. COORDINATE LOCATIONS OF CEILING MOUNTED AIR DEVICES WITH LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS.

CONTRACTOR NOTE:

Items identified as "owner furnished" on the construction documents are being stored by the owner at 3611 Industrial Ct, Jasper, AL 35501.

This storage facility is adjacent to the project location.

The contractor shall be responsible for handling and transporting items from the storage facility to the job site.

The contractor shall coordinate with the owner for details regarding access to and receiving of owner furnished items.

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Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: MECHANICAL LEGENDS

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	CLR
DRAWN:	LMR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M0.1

WALL HEATER SCHEDULE

HEATER TYPE:
1. ELECTRIC WALL HEATER.

ACCESSORIES:
1. SURFACE MOUNTING.
2. UNIT MOUNTED THERMOSTAT.
3. CONCEALED ON/OFF SWITCH.
4. HIGH LIMIT CONTROLS.
5. BUILT-IN CIRCUIT BREAKER.

MARK	SIZE (kW)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN
		V	PH	HZ		
EWH-A	5	208	3	60	1,2,3,4,5	MARKEL

DEHUMIDIFIER SCHEDULE

UNIT TYPE:
1. HORIZONTAL DEHUMIDIFIER.

NOTE:
ELECTRICAL TO PROVIDE DEDICATED 15 AMP CIRCUIT.
SEE FLOOR PLANS FOR QUANTITES.

ACCESSORIES:
1. WALL MOUNTED HUMIDITY SENSOR.
2. SPRING VIBRATION ISOLATORS.
3. MERV 13 FILTER.
4. AUXILIARY DRAIN PAN.
5. ROUND DUCT COLLARS

MARK	TYPE	WATER REMOVAL	AIRFLOW (CFM)	ELECTRICAL				ACCESSORIES	UNIT WEIGHT (LBS)	BASIS OF DESIGN
				V	PH	HZ	MOCP			
DH-A	1	70 PINTS/DAY	140	115 V	1	60	15 A	1,2,3,4,5	80	SANTA FE

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	MINIMUM NEEDLE SPACING	VOLTAGE	MOUNTING LOCATION	MINIMUM ION DENSITY (IONS/CC)
CV	GPS-FC	IHP-1 THRU 8	1 EVERY 3/4"	208	UNIT SERVED	40 MILLION PER 0.75"

NOTES:
1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-FC TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
6. PROVIDE STAND ALONE ION DETECTOR TO COMMUNICATE WITH THE BAS. SYSTEMS WITHOUT ION DETECTORS SHALL NOT BE ACCEPTABLE.
7. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE.
8. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE.
9. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
10. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.
11. BIPOLAR IONIZATION UNIT SHALL DE-ENERGIZE UPON SYSTEM SHUTDOWN.

***NOTE: HVAC EQUIPMENT IS OWNER FURNISHED, CONTRACTOR INSTALLED.

FAN SCHEDULE

FAN TYPE:
1. CENTRIFUGAL SQUARE INLINE - DIRECT DRIVE.
2. CEILING MOUNTED EXHAUST FAN.

FAN ACCESSORIES:
1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3. FAN SPEED CONTROLLER.
4. SPRING VIBRATION ISOLATORS.
5. FLEXIBLE CONNECTIONS.

MARK	FAN TYPE	AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	WHEEL SIZE (INCHES)	SOUND CRITERIA (SONES/dBA)	RPM	MOTOR (HP / W)	ELECTRICAL			INTERLOCK WITH	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
								V	PH	HZ				
CEF-1	2	70	0.5	7.63"	2/41	902	36W	120 V	1	60	LIGHTSWITCH	20	1,2,3,4,5	LOREN COOK
EF-1	1	8850	1	27"	19/70	881	5	480 V	3	60	BAS	450	1,2,3,4,5	LOREN COOK
EF-2	1	670	0.75	13.5"	13/65	1719	1/2	120 V	1	60	BAS	100	1,2,3,4,5	LOREN COOK
EF-3	1	200	0.75	10"	12.8/64	2439	1/3	120 V	1	60	BAS	100	1,2,3,4,5	LOREN COOK
EF-4	1	2200	1	18"	12/63	1244	1	480 V	3	60	BAS	200	1,2,3,4,5	LOREN COOK
EF-5	1	1800	1	19.5"	10/59	1035	1	480 V	3	60	BAS	200	1,2,3,4,5	LOREN COOK
OAF-1	1	1200	0.75	12"	9.8/60	1616	1/2	120 V	1	60	BAS	100	1,2,3,4,5	LOREN COOK

TERMINAL UNIT SCHEDULE - ELECTRIC HEAT

NOTES:
1. CAPACITY BASED ON 55°F EAT.
2. MAX BOX AIR PRESSURE DROP = 0.5" WGSP.
3. BOX RUN-OUTS TO MATCH BOX INLET UNLESS NOTED OTHERWISE.
4. BOX RUN-OUTS TO BE FLEXIBLE DUCTWORK, MAX LENGTH = 5'-0".
5. BOX CONTROLS SHALL BE DDC.
6. PROVIDE INTEGRAL DISCONNECT SWITCH. UL LISTED.
7. PROVIDE SINGLE POINT POWER CONNECTION.
8. BASIS OF DESIGN: TITUS DESV.

TYPE:
V V - VARIABLE VOLUME - NO REHEAT COIL
V V R - VARIABLE VOLUME - ELECTRIC REHEAT COIL
C V R - CONSTANT VOLUME - ELECTRIC REHEAT COIL

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

MARK	TYPE	INLET SIZE (INCHES)	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	ELEC HEAT		ELECTRICAL		
						kW	STEPS	V	PH	HZ
7-1	VVR	12"	1500	750	1100	12	SCR	480 V	3	60
7-2	VVR	10"	800	400	500	6	SCR	480 V	3	60
7-3	VVR	12"	1300	650	650	8	SCR	480 V	3	60
7-4	VVR	10"	780	400	420	5	SCR	480 V	3	60
7-5	VVR	10"	760	380	420	5	SCR	480 V	3	60
7-6	VVR	8"	530	270	340	4	SCR	480 V	3	60
7-7	VVR	8"	530	270	340	4	SCR	480 V	3	60
7-8	VVR	8"	530	270	340	4	SCR	480 V	3	60
7-9	VVR	8"	530	270	340	4	SCR	480 V	3	60

INDOOR (MINI-SPLIT SYSTEM) SCHEDULE

TYPE:
1. INDOOR, WALL MOUNT

NOTES:
1. AIRFLOW RATED AT HIGH FAN SPEED.
2. POWER FOR INDOOR UNIT IS FED FROM OUTDOOR UNIT.
3. COOLING CAPACITY RATED AT 95°F.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

ACCESSORIES:
1. 3-POLE DISCONNECT SWITCH.
2. HARD WIRED UNIT CONTROLLER.
3. FULL PORT BALL VALVES & SCHRADER VALVES WITH FLARED CONNECTIONS.
4. INTEGRAL CONDENSATE PUMP.

MARK	TYPE	AIRFLOW (CFM)	NOMINAL TONS	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	DIMENSIONS (IN.) (WxLxH)	ELECTRICAL				WEIGHT (LBS.)	ACCESSORIES	BASIS OF DESIGN
							V	PH	HZ	MCA (A)			
AC-ELEC-1	1	920	3	33.6	40	46"x12"x15"	208 V	1	60	1 A	100	1,2,3,4	MITSUBISHI
AC-ELEC-2	1	920	3	33.6	40	46"x12"x15"	208 V	1	60	1 A	100	1,2,3,4	MITSUBISHI
AC-IDF	1	775	2.5	30	34	46"x12"x15"	208 V	1	60	1 A	100	1,2,3,4	MITSUBISHI
AC-MDF	1	775	2.5	30	34	46"x12"x15"	208 V	1	60	1 A	100	1,2,3,4	MITSUBISHI

OUTDOOR (MINI-SPLIT SYSTEM) SCHEDULE

TYPE:
1. OUTDOOR HEAT PUMP

NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED AND ROUTED PER MANUFACTURER'S RECOMMENDATIONS.
2. POWER TO INDOOR UNITS IS PROVIDED THRU OUTDOOR UNITS
3. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS.
4. UNIT SHALL BE CAPABLE OF MINIMUM LINE LENGTH OF 245FT.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

MARK	TYPE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ELECTRICAL					BREAKER SIZE (A)	EFFICIENCY		BASIS OF DESIGN
				V	PH	HZ	MCA (A)	MOCP (A)		SEER	HSPF	
MS-ELEC-1	1	33.6	40	208 V	1	60	29	48	30	23.2	9.6	MITSUBISHI
MS-ELEC-2	1	33.6	40	208 V	1	60	29	48	30	23.2	9.6	MITSUBISHI
MS-IDF	1	30	34	208 V	1	60	29	48	30	23.2	9.6	MITSUBISHI
MS-MDF	1	30	34	208 V	1	60	29	48	30	23.2	9.6	MITSUBISHI

INDOOR HEAT PUMP UNIT SCHEDULE

AIR HANDLER UNIT TYPE:
1. SPLIT SYSTEM AC UNIT. INDOOR AIR HANDLER WITH DX COIL, AUXILIARY ELECTRIC HEATER, SUPPLY FAN, & MATCHING OUTDOOR UNIT.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. HEATING CAPACITY IS NET CAPACITY @ 47°F AMBIENT.
3. UL LISTED. AHRI CERTIFIED.
4. SEE PLANS FOR AIRFLOW CONFIGURATION.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

ACCESSORIES:
1. SINGLE POINT POWER CONNECTION.
2. FILTER RACK WITH 1" THICK FILTERS - MERV 8.
3. MULTI-SPEED BLOWER MOTOR.
4. ELECTRIC HEAT.
5. DISCONNECT SWITCH PROVIDED AND INSTALLED BY ELECTRICAL.
6. PROGRAMMABLE THERMOSTAT - 24/7.

MARK	TYPE	SUPPLY FAN			OSA (CFM)	DX COOLING COIL CAPACITY			DX HEATING CAPACITY		ELEC HEAT		ELECTRICAL					ACCESSORIES	BASIS OF DESIGN
		AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	MOTOR (HP)		NOMINAL TONS	TOTAL (MBH)	EAT (DB°F/WB°F)	TOTAL (MBH)	EAT (DB°F)	KW	STAGES	V	PH	HZ	MCA (A)	BREAKER SIZE (A)		
IHP-1	1	1200	0.8	1/2	100 CFM	3	36	77°F/63°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-2	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-3	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-4	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-5	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-6	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-7	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-8	1	1120	0.8	1/2	150 CFM	3	36	78°F/64°F	40	70°F	7.5	1	208 V	1	60	50	60	1,2,3,4,5,6	MITSUBISHI
IHP-9	1	620	0.8	1/2	50 CFM	2.5	30	78°F/64°F	34	70°F	6	1	208 V	1	60	40	45	1,2,3,4,5,6	MITSUBISHI

OUTDOOR HEAT PUMP SCHEDULE

TYPE:
1. OUTDOOR HEAT PUMP

NOTES:
1. CAPACITY TO BALANCE RESPECTIVE INDOOR AC UNIT.
2. COOLING CAPACITY RATED AT 95°F.
3. HEATING CAPACITY RATED AT 47°F.
4. UL LISTED, AHRI CERTIFIED.
5. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER-RESISTANT CAPS. ANY ACCESS DEVICE REQUIRED SHALL BE LEFT ON SITE WITH THE OWNER AT PROJECT CLOSE OUT.
6. MINIMUM LINE LENGTH SHALL BE 200 FT.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

ACCESSORIES:
1. PHASE PROTECTION.
2. MICROPROCESSOR CONTROLS.
3. ISOLATION VALVES.
4. LIQUID LINE REFRIGERANT FILTER DRIER.
5. ANTI SHORT CYCLE TIMER.
6. HAIL / VANDAL GUARDS.
7. THERMAL EXPANSION VALVE.

MARK	TYPE	NOMINAL TONS	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ELECTRICAL					EFFICIENCY		BASIS OF DESIGN
					V	PH	HZ	MCA (A)	BREAKER SIZE (A)	COOLING (SEER)	HEATING (HSPF)	
OHP-1	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-2	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-3	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-4	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-5	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-6	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-7	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-8	1	3	36	40	208 V	1	60	29	30	21.2	9.2	MITSUBISHI
OHP-9	1	2.5	30	34	208 V	1	60	29	30	21	9.3	MITSUBISHI

LARGE PACKAGED AC UNIT - GAS

TYPE:
1. PACKAGED VAV AC UNIT, HORIZONTAL DISCHARGE.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. ESP DOES NOT INCLUDE ANY PRESSURE DROP DUE TO UNIT INTERNAL COMPONENTS. SELECT FAN WITH MID-LIFE FILTERS.
3. PROVIDE VIBRATION ISOLATION ON FANS.
4. PROVIDE UNIT WITH FOAM INJECTED DOUBLE WALL INSULATION THROUGHOUT THE CABINET, R-13 MINIMUM.
5. PROVIDE UNIT WITH DUAL REFRIGERATION CIRCUIT. SINGLE CIRCUIT DESIGN NOT ACCEPTABLE.
6. PROVIDE UNIT WITH COMPRESSORS CAPABLE OF VARIABLE CAPACITY.
7. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE.
8. PROVIDE HINGED ACCESS DOORS.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

ACCESSORIES:
1. PROVIDE UNIT WITH SINGLE POINT TERMINAL BLOCK WITH INTEGRAL DISCONNECT SWITCH AND 65kVA STANDARD SHORT CIRCUIT RATING.
2. UNIT SHALL BE PROVIDED WITH DUAL ENTHALPY ECONOMIZER CONTROL WITH FAULT DETECTION AND DIAGNOSTICS (FDD) ALARMS AND ULTRA LOW LEAKAGE DAMPERS.
3. DOUBLE SLOPED STAINLESS STEEL DRAIN PAN SHALL BE PROVIDED THAT MEETS ASRAE 62.1 REQUIREMENTS.
4. FACTORY INSTALLED POWERED CONVENIENCE OUTLET AND INTERNAL LIGHTS PROVIDED BY EQUIPMENT MANUFACTURER.
5. PROVIDE OUTSIDE AIRFLOW MONITORING STATION ON OUTSIDE AIR INTAKE HOOD.
6. PROVIDE FACTORY MOUNTED MICROPROCESSOR CONTROLLER.
7. PROVIDE MODULATING HOT GAS REHEAT COIL. MINIMUM 15°F RISE.
8. PROVIDE BIPOLAR IONIZATION.

MARK	TYPE	SUPPLY FAN			OSA (CFM)	EAT (DB°F/WB°F)	LAT (DB°F/WB°F)	DX COOLING CAPACITY			GAS HEAT			ELECTRICAL									ACCESSORIES	BASIS OF DESIGN
		AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	MOTOR (HP)				TOTAL (MBH)	SENS (MBH)	NOM. TONS	INPUT (MBH)	OUTPUT (MBH)	TEMP RISE (°F), STAGES	V	PH	HZ	MCA (A)	MOCP (A)	EER/IEER	FILTERS	WEIGHT (LBS)		
AC-1	1	15000	1.5	20	3750	79°F/65°F	54°F/54°F	429.5	345.3	40	800	648	40.18	460 V	3	60	107	125	11/15.6	2" - MERV 8	6500	1,2,3,4,5,6,7,8	TRANE

PACKAGED AC UNIT - GAS

TYPE:
1. PACKAGED AC UNIT, HORIZONTAL DISCHARGE.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. GAS HEATING OUTPUT BASED ON 80% AFUE.

***NOTE: HVAC EQUIPMENT IN THIS SCHEDULE IS OWNER FURNISHED, CONTRACTOR INSTALLED.

ACCESSORIES:
1. 2" THICK THROWAWAY FILTER, MERV 8.
2. CONDENSER COIL GUARD.
3. HEAD PRESSURE CONTROL TO 10°F AMBIENT.
4. STAINLESS STEEL HEAT EXCHANGER.
5. OSA INTAKE HOOD WITH AUTO DAMPER, ECONOMIZER, AND BAROMETRIC RELIEF.
6. HINGED ACCESS DOORS.
7. STAINLESS STEEL DRAIN PAN.
8. HOT GAS REHEAT COIL. MINIMUM 15°F RISE.
9. BIPOLAR IONIZATION.

MARK	TYPE	SUPPLY FAN			OSA (CFM)	EAT (DB°F/WB°F)	DX COOLING CAPACITY			HOT GAS REHEAT (MBH)	GAS HEAT			ELECTRICAL					EER	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
		AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	MOTOR (HP)			TOTAL (MBH)	SENS (MBH)	NOM. TONS		INPUT (MBH)	OUTPUT (MBH)	TEMP RISE (°F)	V	PH	HZ	MCA (A)	MOCP (A)				
AC-2	1	10000	1.25	4.6	2300	80°F/65°F	257.0	219.0	25	212.8	400	324	29.7	460 V	3	60	64	80	9.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT
AC-3	1	7400	1	3.0	1500	79°F/65°F	227.9	178.6	20	166.2	320	259.2	31.9	460 V	3	60	55	70	9.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT
AC-4	1	7400	1	3.0	1800	79°F/65°F	227.9	178.6	20	166.2	320	259.2	31.9	460 V	3	60	55	70	9.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT
AC-5	1	6000	1	3.0	1500	79°F/65°F	174.9	141.6	15	138.4	320	259.2	39.4	460 V	3	60	40	50	10.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT
AC-6	1	6950	1	3.0	1400	79°F/65°F	201.4	163.1	17.5	160.9	320	259.2	34.0	460 V	3	60	47	60	10.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT
AC-7	2	7260	1.6	3.0	1400	79°F/65°F	224.6	174.2	20	--	250	202.5	25.5	460 V	3	60	55	70	9.8 EER	2500	1,2,3,4,5,6,7,8,9	TRANE PRECEDENT

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Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

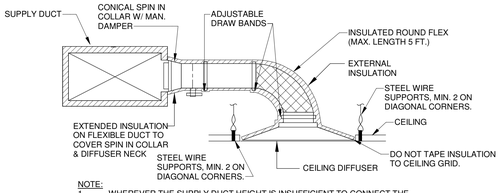
SHEET TITLE: MECHANICAL SCHEDULES

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 27475 CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	LMR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M0.2

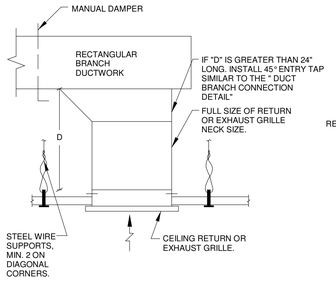


NOTE:

1. WHEREVER THE SUPPLY DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE SPIN-IN, THE SPIN-IN MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT. REFER TO SPECIFICATION FOR MAXIMUM TURNS IN FLEX DUCT.
2. PROVIDE EXTERNAL INSULATION ON ALL ROUND BRANCH DUCTWORK. SEE SPECS FOR THICKNESS AND EXTENT.
3. PROVIDE EXTERNAL INSULATION ON BACK SIDE OF CEILING DIFFUSERS. THICKNESS TO MATCH BRANCH DUCT INSULATION THICKNESS.

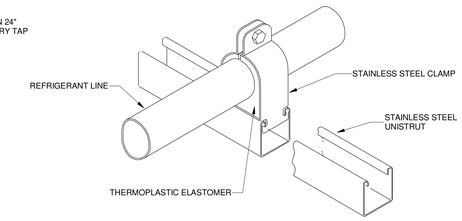
CEILING DIFFUSER INSTALLATION DETAIL

NO SCALE



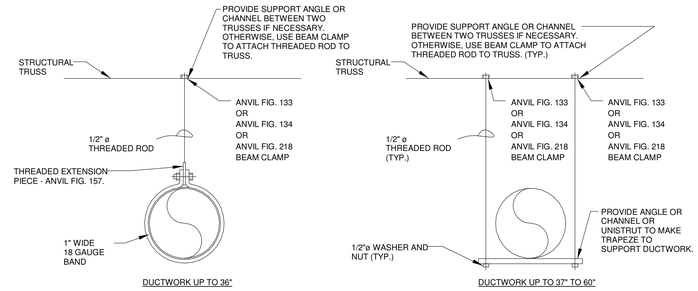
CEILING RETURN/EXHAUST BRANCH CONNECTION DETAIL

NO SCALE



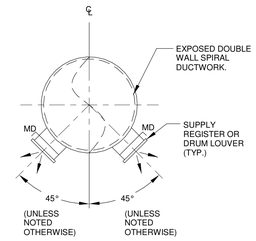
REFRIGERANT LINE SUPPORT DETAIL

NO SCALE



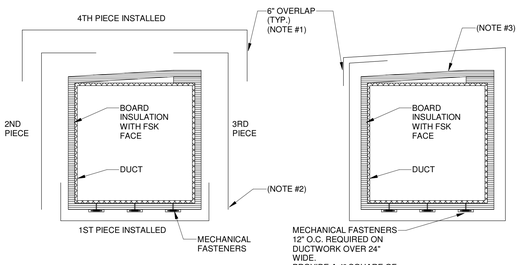
EXPOSED ROUND DUCTWORK HANGER DETAIL

NO SCALE



EXPOSED DUCTWORK SECTION

NO SCALE

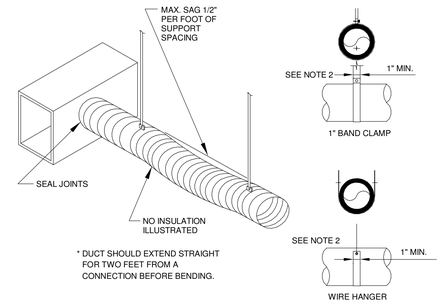


NOTES:

1. ALL OVERLAPS SHALL BE A MINIMUM OF 6".
2. PROVIDE STUCCO EMBOSSED ALUMINUM JACKET. SIDE PIECES SHOULD BE CUT FLUSH WITH THE BOTTOM CORNER AND SHOULD NOT BE FOLDED UNDER THE DUCT.
3. OVERLAP BOARD INSULATION ON TOP OF DUCT TO CREATE A SLOPED TOP TO PREVENT PONDING OF WATER. TAPE ALL INSULATION JOINTS BEFORE APPLYING WEATHER PROOFING MATERIAL.

EXTERIOR DUCT INSULATION AND ALUMINUM JACKET

NO SCALE



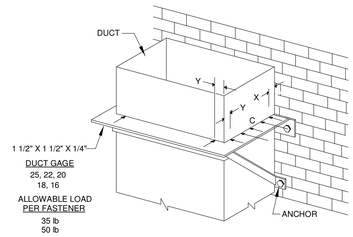
* DUCT SHOULD EXTEND STRAIGHT FOR TWO FEET FROM A CONNECTION BEFORE BENDING.

NOTES:

1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.
3. MIN. CENTER LINE BEND LINE RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2).
4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 LINEAR FEET.

FLEXIBLE DUCT SUPPORT DETAIL

NO SCALE



WELD, BOLT OR NO. 8 SCREW (MIN.). DEVIATION PERMITTED BY OTHER ANALYSIS. X = 1", Y = 2", ADD OTHERS TO ACCOMMODATE LOAD. MINIMUM OF 3 ON 24" WIDTH AND UP. ADD ALONG SIDES NEAREST ANCHORS.

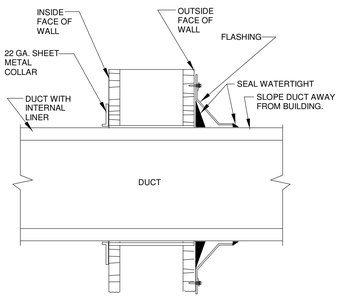
NOTES:

1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT, MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE:

A. TENSILE LOAD = 3/8 X DUCT WEIGHT; SAFTY FACTOR OF 4.
B. SHEAR LOAD X 1/2 X DUCT WEIGHT; SAFETY FACTOR OF 4.

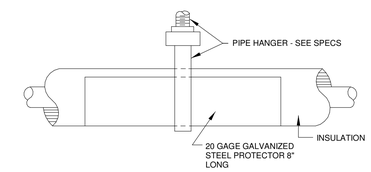
DUCT SUPPORT FROM WALL

NO SCALE

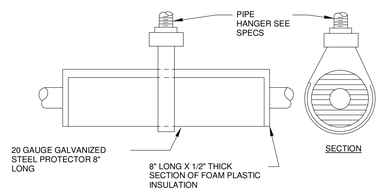


DUCTWORK THRU OUTSIDE WALL DETAIL

NO SCALE



INSULATED LINES

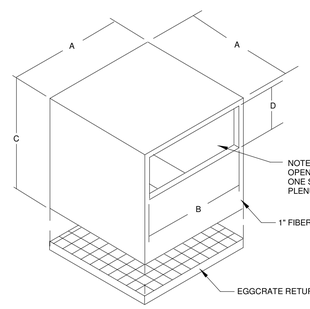


UNINSULATED LINES

REFRIGERANT PIPING HANGER DETAIL

NO SCALE

MINIMUM CONDENSATE PIPE SIZE	
AC TONS	MIN. DRAIN SIZE
0 TO 20	1"
21 TO 40	1-1/4"
41 TO 60	1-1/2"
61 TO 100	2"
101 TO 250	3"
251 & LARGER	4"



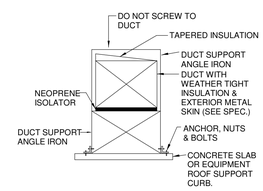
NOTES:

1. VERIFY DIMENSIONS FROM ACTUAL GRILLE SIZES. SEE SCHEDULE
2. PAINT ALL INTERIOR SURFACES FLAT BLACK.
3. PROVIDE SOUND TRAPS FOR ALL UNDUCTED RETURN GRILLES.

DIMENSIONS SCHEDULE				
MARK	"A"	"B"	"C"	"D"
R8	8"	6"	12"	6"
R12	12"	10"	16"	10"
R18	19"	16"	18"	12"
R24	24"	22"	28"	12"

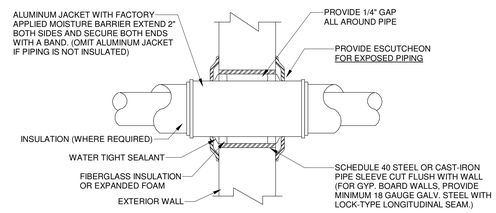
PLENUM RETURN AIR GRILLE SOUND TRAP DETAILS

NO SCALE



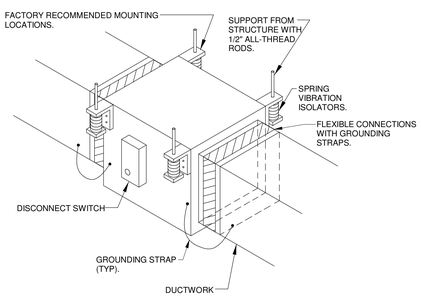
DUCT SUPPORT DETAIL

NO SCALE



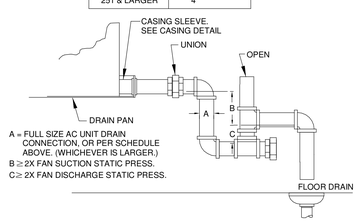
PIPE PENETRATION DETAIL

NO SCALE



IN-LINE FAN INSTALLATION DETAIL

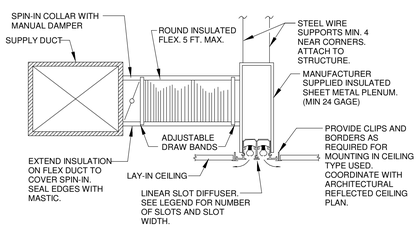
NO SCALE



A = FULL SIZE AC UNIT DRAIN CONNECTION, OR PER SCHEDULE ABOVE. (WHICHEVER IS LARGER.)
B ≥ 2X FAN SUCTION STATIC PRESS.
C ≥ 2X FAN DISCHARGE STATIC PRESS.

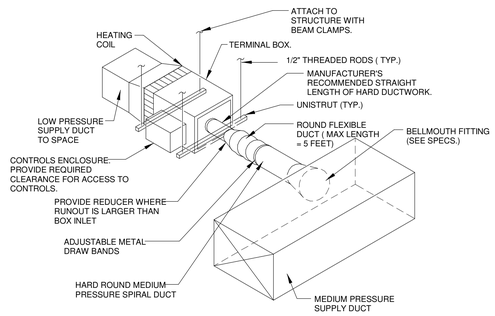
AC UNIT DRAIN TRAP DETAIL

NO SCALE



LINEAR SLOT CEILING DIFFUSER DETAIL

NO SCALE

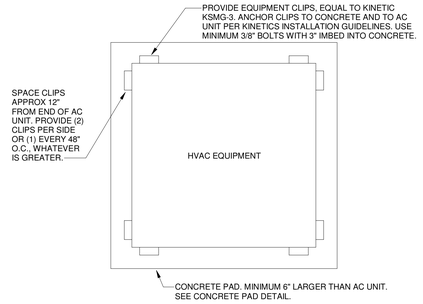


NOTE:

1. PROVIDE MANUFACTURER'S RECOMMENDED STRAIGHT LENGTH OF DUCT HARD DUCT UPSTREAM OF TERMINAL UNIT INLET. STRAIGHT LENGTH OF DUCTWORK SHALL BE MINIMUM OF 3 TIMES THE INLET DIAMETER.
2. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100. SEE FLOOR PLANS FOR RUN-OUT SIZES.
3. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/ VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
4. PROVIDE INSULATION ON ALL HOT WATER REHEAT COILS.
5. SUPPORT EACH TERMINAL UNIT WITH A SYSTEM OF UNISTRUT AND THREADED RODS AS SHOWN. DO NOT PENETRATE THE TERMINAL UNIT AT SUPPORT LOCATION WITH SCREWS. THE TERMINAL MAY BE SUPPORTED BY ANOTHER APPROVED METHOD AS LONG AS SCREWS DO NOT PENETRATE THE TERMINAL UNIT.
6. WHEREVER THE SUPPLY DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE BELLMOUTH, THE BELLMOUTH MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION (SEE DETAIL) OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT.

TERMINAL UNIT INSTALLATION DETAIL

NO SCALE



NOTE: PROVIDE SUBMITTALS FROM EQUIPMENT CLIP (WIND RESTRAINT) MANUFACTURER FOR THE REQUIRED CLIP STYLE FOR THE SUBMITTED AC EQUIPMENT FOR THIS PROJECT. SUBMITTAL FROM MANUFACTURER SHALL INCLUDE ALL INSTALLATION GUIDELINES TO COMPLY WITH THE REQUIREMENTS OF 2021 IMC 301.15 AND 2021 IBC 1609. SUBMITTAL SHALL INCLUDE CLIP QUANTITY, AND ANCHOR REQUIREMENTS FOR EACH SIZE AC UNIT.

HVAC EQUIPMENT (ON GRADE) WIND RESTRAINT DETAIL

NO SCALE

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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: MECHANICAL DETAILS

ALABAMA LICENSED PROFESSIONAL ENGINEER REG. 27475 12/19/2025 CHRISTOPHER L. ROBINSON

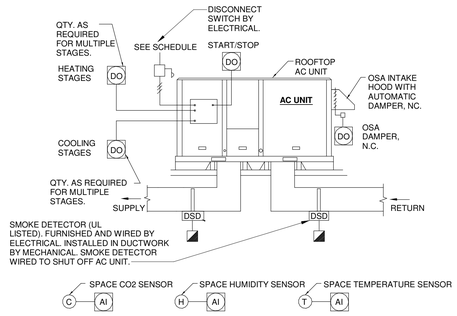
PROJ. MGR.:	CLR
DRAWN:	LMR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M0.3

HVAC CONTROLS - GENERAL NOTES

1. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120V CONTROL POWER NECESSARY TO CONTROL PANELS AND EQUIPMENT THROUGHOUT PROJECT.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120V CONTROL POWER NECESSARY TO POWER AUTOMATIC CONTROL VALVES, AUTOMATIC DAMPER ACTUATORS, AND SMOKE DAMPER ACTUATORS.
3. ALL SMOKE DETECTORS ARE PROVIDED AND WIRED BY ELECTRICAL, INSTALLED BY MECHANICAL.
4. PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL CONTROL SYSTEM.
5. THE BUILDING AUTOMATION SYSTEM SHALL BE AN EXPANSION OF THE EXISTING CAMPUS TRANE BUILDING AUTOMATION SYSTEM.



PACKAGED AC UNIT CONTROLS

NO SCALE

CONTROL SEQUENCE: (AC-2,3,4,5,6,7)

OCCUPIED MODE:
BAS SHALL INITIATE STARTING CONTROLS. THE SUPPLY FAN SHALL START SUBJECT TO THE SMOKE DETECTOR INTERLOCK. THE BAS SHALL MONITOR THE SPACE TEMPERATURE SENSOR TO CYCLE ON COOLING STAGES TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND TO CYCLE ON GAS FURNACE TO MAINTAIN HEATING SETPOINT (72°F - ADJUSTABLE). WHEN THE AC UNIT IS IN OCCUPIED MODE, THE OSA DAMPER SHALL OPEN TO MINIMUM POSITION TO PROVIDE SCHEDULED MINIMUM OUTSIDE AIR CFM.

UNOCCUPIED MODE:
THE SPACE TEMPERATURE SENSOR SHALL CYCLE THE SUPPLY FAN, DX COOLING, AND GAS FURNACE TO MAINTAIN THE UNOCCUPIED SPACE SETPOINT (60°F HEATING / 80°F COOLING - ADJUSTABLE). THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.

DEHUMIDIFICATION SEQUENCE:
UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL GO INTO FULL COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 74°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT THE UNIT SHALL RETURN TO NORMAL OPERATION.

CONTROL SEQUENCE : (AC-1)

THE BAS SHALL ENABLE THE UNIT TO START. ALL POINTS SHOWN IN THE RTU DIAGRAM AND/OR DESCRIBED BELOW SHALL BE PROVIDED BY THE RTU MANUFACTURER (UNLESS OTHERWISE NOTED) AND SHALL BE VIEWABLE AND CHANGEABLE IN THE BAS.

UNIT CONTROLLER SHALL BE PROVIDED WITH THE FOLLOWING SEQUENCE. CONTROLLER SHALL BE FACTORY PROGRAMMED, MOUNTED AND TESTED.

OCCUPIED/UNOCCUPIED MODES: BAS SHALL CONTROL THE OCCUPIED/UNOCCUPIED MODE.

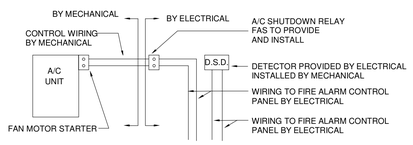
OCCUPIED MODE:
THE SUPPLY FAN SHALL RUN SUBJECT TO THE FIRE ALARM INTERLOCK, SMOKE DETECTOR INTERLOCK AND HIGH STATIC PRESSURE CUTOUT. THE SUPPLY FAN STATUS SHALL BE MONITORED THROUGH A CURRENT TRANSDUCER AND THE RETURN AIR TEMPERATURE (RAT), MIXED AIR TEMPERATURE (MAT) AND SUPPLY AIR TEMPERATURE (SAT) SHALL BE MONITORED.

WHEN THE SUPPLY FAN IS STARTED, THE BAS SHALL SLOWLY INCREASE THE SPEED OF THE FAN TO REACH AND MAINTAIN STATIC PRESSURE SET POINT AT THE DUCT STATIC PRESSURE SENSOR. THE STATIC PRESSURE SET POINT SHALL BE THE MINIMUM THAT WILL SUPPLY DESIGN AIR FLOW TO ALL THE TERMINAL BOXES AS DETERMINED BY THE TEST AND BALANCE CONTRACTOR. THE STATIC PRESSURE SETPOINT SHALL BE RESET TO ALLOW THE AIR TERMINAL BOX WITH THE HIGHEST DEMAND TO BE 90% FULL OPEN. THE RETURN FAN SPEED SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPACE STATIC PRESSURE SENSOR AT +0.05 (ADJ.).

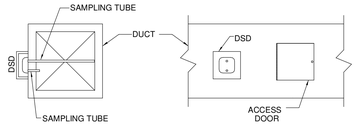
WHEN THE FANS ARE RUNNING, THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO PROVIDE THE MINIMUM OUTSIDE AIR FLOW AMOUNT, AS DETERMINED BY THE FIXED DIFFERENTIAL BETWEEN THE SUPPLY AND RETURN DUCT AFMS.

THE UNIT MOUNTED CONTROLLER SHALL STAGE ON COMPRESSORS AND GAS HEAT EXCHANGER AS REQUIRED TO MAINTAIN SUPPLY AIR TEMPERATURE SET POINT SETTING (54°F - ADJUSTABLE) AT THE SAT SENSOR. WHEN THE OUTSIDE AIR TEMPERATURE IS 50°F AND LOWER, THE SUPPLY AIR TEMPERATURE SHALL BE RESET TO 58°F.

UNOCCUPIED MODE:
THE UNIT SHALL START AND OPERATE ACCORDING TO THE ABOVE SEQUENCE IF ANY SPACE TEMPERATURE RISES ABOVE SETPOINT (80°F COOLING-ADJ./55°F HEATING-ADJ.). IN UNOCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE CLOSED.



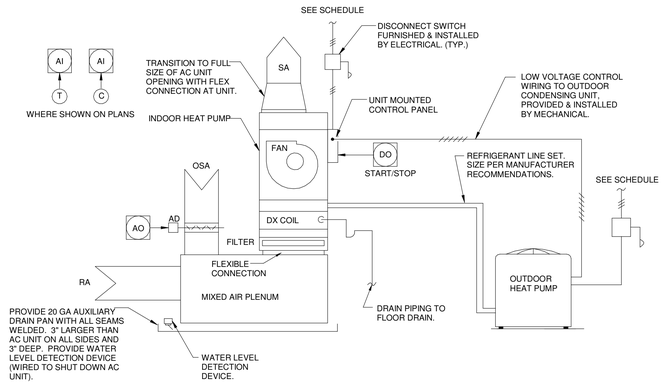
DUCT SMOKE DETECTOR CONNECTION



DUCT SMOKE DETECTOR INSTALLATION

DUCT SMOKE DETECTOR DETAIL

NO SCALE



SPLIT SYSTEM CONTROL SEQUENCE:

EACH AC UNIT SHALL BE STARTED AND STOPPED BY A WALL MOUNTED CONTROLLER (WITH LCD DISPLAY), SUBJECT TO FACTORY SAFETIES AND THE DUCT MOUNTED SMOKE DETECTOR (WHERE INDICATED ON PLANS OR SCHEDULE).

WHEN AC UNIT AND CORRESPONDING CONDENSING UNIT IS ENERGIZED, THE AC UNIT SUPPLY FAN SHALL START.

DURING OCCUPIED HOURS, THE THERMOSTAT SHALL ENERGIZE THE OUTDOOR HEAT PUMP CONTROLS UPON A RISE IN ROOM TEMPERATURE PROVIDE COOLING BY LOADING AND UNLOADING COMPRESSORS IN STAGES AS NEEDED TO SATISFY SPACE TEMPERATURE SETPOINT (74°F - ADJUSTABLE) DURING SUMMER MONTHS. UPON A DROP IN SPACE TEMPERATURE DURING WINTER MONTHS, THE OUTDOOR HEAT PUMP SHALL STAGE ON TO MAINTAIN SPACE TEMPERATURE SETPOINT (70°F - ADJUSTABLE). IF THE HEAT PUMP CANNOT SATISFY SPACE TEMP. THE ELECTRIC HEAT SHALL STAGE ON. OCCUPIED HOURS TO BE DETERMINED BY THE OWNER. RECOMMENDED OCCUPIED HOURS ARE MONDAY THRU FRIDAY, 7 A.M. TO 6 P.M.

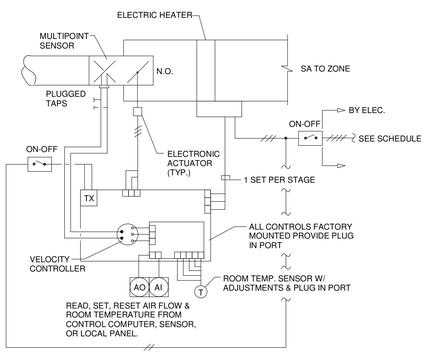
THE SUPPLY FAN SHALL HAVE TWO-SPEED FAN CONTROL AND SHALL ADJUST THE FAN SPEED TO 66% OF FULL FAN SPEED BASED ON COMPRESSOR STAGES AND ECONOMIZER OPERATION.

PROVIDE NIGHTTIME SETBACK TEMPERATURE TO MAINTAIN 78°F (SUMMER), 66°F (WINTER), AFTER HOURS. UPON ACTIVATION OF NIGHT LOW LIMIT THERMOSTAT UNIT SHALL OPERATE IN OCCUPIED MODE UNTIL SATISFIED.

FOR AC UNITS WITH WALL MOUNTED CO2 MONITOR, THE OUTSIDE AIR AUTO DAMPER TO OPEN FROM A MINIMUM POSITION TO A MAXIMUM POSITION WHEN CO2 RISES ABOVE 1000 PPM. ONCE CO2 LEVELS RETURN TO 900 PPM, THE OUTSIDE AIR AUTO DAMPER SHALL RETURN TO A MINIMUM POSITION.

SPLIT SYSTEM CONTROLS (WITH BUILDING AUTOMATION SYSTEM)

NO SCALE



VAV TERMINAL UNIT CONTROLS SEQUENCE:

NOTE:
SPACE TEMPERATURE SENSOR SET POINT SHALL BY OWNER DEFINED.

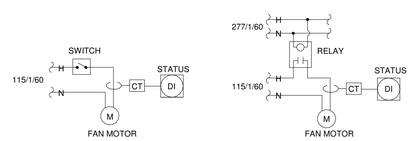
SPACE THERMOSTATS SHALL HAVE USER ADJUSTMENT ONLY AND NO DISPLAY OF ACTUAL TEMPERATURE IN THE SPACE.

CVR (CONSTANT VOLUME REHEAT): THE BAS SHALL MODULATE THE BOX DAMPER AS REQUIRED TO MAINTAIN CONSTANT AIRFLOW AS SENSED BY THE AIRFLOW MEASUREMENT STATION. UPON A DROP IN ROOM TEMPERATURE AS MEASURED BY THE SPACE TEMPERATURE SENSOR, THE ELECTRIC HEATER SHALL STAGE ON AS REQUIRED.

V V R (VARIABLE VOLUME REHEAT): UPON A DROP IN ROOM TEMPERATURE AS MEASURED BY THE SPACE TEMPERATURE SENSOR, THE BOX AIR FLOW SHALL MODULATE TO A MINIMUM AND ON A FURTHER DROP IN ROOM TEMPERATURE THE BOX AIR FLOW SHALL INCREASE TO HEATING CFM MAXIMUM AND THE BOX ELECTRIC HEATER SHALL STAGE ON.

VAV TERMINAL UNIT CONTROLS - ELECTRIC HEAT

NO SCALE

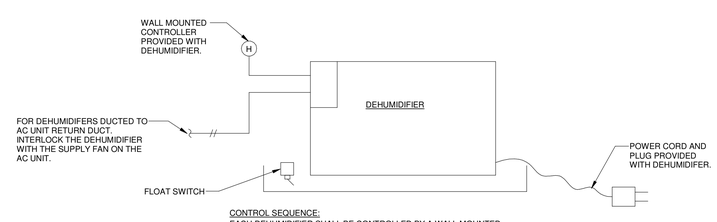


EXHAUST FAN CONTROLLED BY SWITCH. EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT.

THE BAS SHALL MONITOR FAN STATUS VIA A CURRENT TRANSDUCER.

EXHAUST FAN CONTROLS

NO SCALE

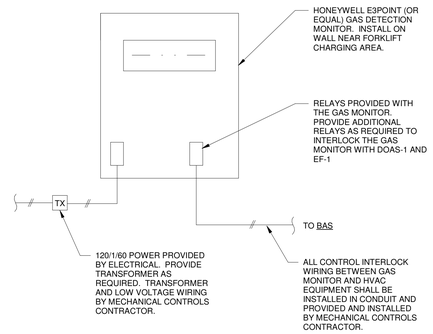


CONTROL SEQUENCE:
EACH DEHUMIDIFIER SHALL BE CONTROLLED BY A WALL MOUNTED CONTROLLER THAT SENSES RELATIVE HUMIDITY. IF THERE IS A RISE IN RELATIVE HUMIDITY ABOVE 60%RH, THE DEHUMIDIFER SHALL START AND RUN, SUBJECT TO THE WATER LEVEL DETECTION FLOAT SWITCH (FOR DEHUMDIFIERS SUSPENDED FROM THE STRUCTURE).

FOR DEHUMIDIFIERS DUCTED TO THE RETURN OF AN AC UNIT, THE DEHUMIDIFIER SHALL BE INTERLOCKED TO START THE AC UNIT SUPPLY FAN (REGARDLESS OF WHETHER THE AC UNIT IS IN HEATING OR COOLING MODE).

DEHUMIDIFIER CONTROLS

NO SCALE

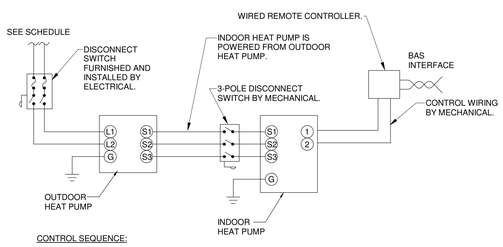


CONTROL SEQUENCE:

COORDINATE GAS DETECTION MONITOR WITH BATTERY CHARGING REQUIREMENTS. IN GENERAL, IF HYDROGEN GAS OR CARBON MONOXIDE IS DETECTED AT ELEVATED LEVELS, THE GAS MONITOR SHALL START THE EXHAUST FAN AND AC UNIT.

GAS DETECTION SYSTEM

NO SCALE



CONTROL SEQUENCE:

THE AC UNIT SHALL BE CONTROLLED BY A WIRED WALL MOUNTED REMOTE CONTROLLER. THE CONTROLLER SHALL CYCLE ON COMPRESSOR(S) TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE). ALL MINI-SPLIT AC UNITS THAT SERVE ELECTRICAL AND IT ROOMS SHALL NOT SET THEIR TEMPERATURE BACK AT NIGHT. FOR ALL MINI-SPLIT AC UNITS THAT SERVE OFFICES, CLASSROOMS, ETC. SHALL SET THEIR TEMPERATURE BACK TO 4°F ABOVE SETPOINT IN SUMMER AND 4°F BELOW SETPOINT IN THE WINTER. COORDINATE WITH OWNER TO ESTABLISH OCCUPIED / UNOCCUPIED SCHEDULES.

DUCTLESS SPLIT SYSTEM CONTROLS

NO SCALE

LATHAN McKEE ARCHITECTS

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SHEET TITLE: MECHANICAL CONTROLS

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	LMR
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M0.4

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Project Number :
50182832

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
BUS BAY	Classrooms (ages 9 plus)	10	20	0.12	12,285	1,674	0.80	2,093
					Total Required by AC-1:			2,093
					Total Provided by AC-1:			3000

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
BREAK ROOM	Break rooms	5	4	0.06	505	50	0.80	63
CORRIDOR	Corridors	0	0	0.06	422	25	0.80	32
MEN	Toilet				378			0
STORAGE	Storage Rooms	0	0	0.12	473	57	0.80	71
TRAINING EQUIPMENT STORAGE AREA	Classrooms (ages 9 plus)	10	20	0.12	5,208	825	0.80	1,031
WOMEN	Toilet				402			0
JANITOR	Janitor				36			0
					Total Required by AC-2:			1,197
					Total Provided by AC-2:			2300

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
CORRIDOR	Corridors	0	0	0.06	422	25	0.80	32
SOLAR LAB	Classrooms (ages 9 plus)	10	20	0.12	3,690	643	0.80	804
SOLAR LAB TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
SOLAR LAB TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
					Total Required by AC-3:			869
					Total Provided by AC-3:			1500

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
CORRIDOR	Corridors	0	0	0.06	422	25	0.80	32
ELECTRIC VEHICLE BATTERY CHARGING LAB	Classrooms (ages 9 plus)	10	20	0.12	3,566	628	0.80	785
BATTERY ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
					Total Required by AC-4:			867
					Total Provided by AC-4:			1500

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
CORRIDOR	Corridors	0	0	0.06	422	25	0.80	32
ELECTRIC VEHICLE LAB	Classrooms (ages 9 plus)	10	20	0.12	2,903	548	0.80	685
TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
TOOL ROOM	Storage Rooms	0	0	0.12	113	14	0.80	17
					Total Required by AC-5:			751
					Total Provided by AC-5:			1200

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
CONNECTIVITY LAB	Classrooms (ages 9 plus)	10	20	0.12	3,672	641	0.80	801
OFFICE	Office Space	5	1	0.06	110	12	0.80	15
OFFICE	Office Space	5	1	0.06	110	12	0.80	15
TOOL ROOM	Storage Rooms	0	0	0.12	173	21	0.80	26
CORRIDOR	Corridors	0	0	0.06	422	25	0.80	32
					Total Required by AC-6:			887
					Total Provided by AC-6:			1400

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm
CONFERENCE ROOM	Conference/meeting	5	12	0.06	693	102	0.80	127
COPIER OFFICE SUPPLIES	Storage Rooms	0	0	0.12	362	43	0.80	54
EXECUTIVE OFFICE	Office Space	5	1	0.06	280	22	0.80	27
EXECUTIVE OFFICE	Office Space	5	1	0.06	280	22	0.80	27
EXECUTIVE OFFICE	Office Space	5	1	0.06	267	21	0.80	26
EXECUTIVE OFFICE	Office Space	5	1	0.06	272	21	0.80	27
KITCHENETTE	Break rooms	5	2	0.06	270	26	0.80	33
LOBBY	Main entry lobbies	5	0	0.06	965	58	0.80	72
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
OFFICE	Office Space	5	1	0.06	80	10	0.80	12
RECEPTION	Office Space	5	1	0.06	300	23	0.80	29
					Total Required by AC-7:			521
					Total Provided by AC-7:			1400

OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Required OSA (Voz) cfm	Provided OSA (IAQP) cfm
CLASSROOM	Classrooms (ages 9 plus)	10	20	0.12	855	303	0.80	378	150
		Total Outside Air Required by IHP-1:						378	
		Total Outside Air Required by IHP-1 using IAQP:						150	

EXHAUST AIR CALCULATIONS

# OF FIXTURES	# OF SHOWERS	EXHAUST RATE CFM/FT²	EXHAUST RATE CFM / FIXTURE	EXHAUST RATE CFM/ SHOWER	REQUIRED EXHAUST CFM	PROVIDED EXHAUST CFM
0	0	0.75	N/A	N/A	9213.75	9250

EXHAUST AIR CALCULATIONS

# OF FIXTURES	# OF SHOWERS	EXHAUST RATE CFM/FT²	EXHAUST RATE CFM / FIXTURE	EXHAUST RATE CFM/ SHOWER	REQUIRED EXHAUST CFM	PROVIDED EXHAUST CFM
0	0	N/A	N/A	N/A	0	0
0	0	N/A	N/A	N/A	0	0
6	0	N/A	50	N/A	300	300
0	0	N/A	N/A	N/A	0	0
0	0	N/A	N/A	N/A	0	0
6	0	N/A	50	N/A	300	300
0	0	1	N/A	N/A	36	50

EXHAUST AIR CALCULATIONS

# OF FIXTURES	# OF SHOWERS	EXHAUST RATE CFM/FT²	EXHAUST RATE CFM / FIXTURE	EXHAUST RATE CFM/ SHOWER	REQUIRED EXHAUST CFM	PROVIDED EXHAUST CFM
0	0	N/A	N/A	N/A	0	0
0	0	0.75	N/A	N/A	2674.5	2700
0	0	0.75	N/A	N/A	84.75	100
0	0	N/A	N/A	N/A	0	0
0	0	N/A	N/A	N/A	0	0

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-1)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
BUS BAY	12,285	319,410	AC-1	R-454B	3.1	62.9	990.2	1
					MAXIMUM ALLOWED REFRIGERANT:		990.2	
					TOTAL REFRIGERANT CHARGE:	62.90		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-2)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
BREAK ROOM	505	13,130	AC-2	R-454B	3.1	2.3	40.7	1
CORRIDOR	422	10,972	AC-2	R-454B	3.1	1.9	34.0	1
MEN TLT	378	9,828	AC-2	R-454B	3.1	1.7	30.5	1
STORAGE	473	12,298	AC-2	R-454B	3.1	2.1	38.1	1
TRAINING EQUIP STOR AREA	5,208	135,408	AC-2	R-454B	3.1	23.4	419.8	1
WOMEN TLT	402	10,452	AC-2	R-454B	3.1	1.8	32.4	1
JANITOR	36	936	AC-2	R-454B	3.1	0.2	2.9	1
					MAXIMUM ALLOWED REFRIGERANT:		598.4	
					TOTAL REFRIGERANT CHARGE:	33.40		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-3)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CORRIDOR	422	4,220	AC-3	R-454B	3.1	4.1	13.1	1
SOLAR LAB	3,690	36,900	AC-3	R-454B	3.1	35.7	114.4	1
SOLAR LAB TOOL ROOM	113	1,130	AC-3	R-454B	3.1	1.1	3.5	1
SOLAR LAB TOOL ROOM	113	1,130	AC-3	R-454B	3.1	1.1	3.5	1
					MAXIMUM ALLOWED REFRIGERANT:		134.5	
					TOTAL REFRIGERANT CHARGE:	42.00		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-4)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CORRIDOR	422	4,220	AC-4	R-454B	3.1	4.1	13.1	1
ELECTRIC VEHICLE BATTERY CHARGING LAB	3,566	35,660	AC-4	R-454B	3.1	34.6	110.5	1
BATTERY ROOM	113	1,130	AC-4	R-454B	3.1	1.1	3.5	1
TOOL ROOM	113	1,130	AC-4	R-454B	3.1	1.1	3.5	1
TOOL ROOM	113	1,130	AC-4	R-454B	3.1	1.1	3.5	1
					MAXIMUM ALLOWED REFRIGERANT:		134.1	
					TOTAL REFRIGERANT CHARGE:	42.00		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-5)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CORRIDOR	422	4,220	AC-4	R-454B	3.1	3.2	13.1	1
ELECTRIC VEHICLE LAB	2,903	29,030	AC-4	R-454B	3.1	22.1	90.0	1
TOOL ROOM	113	1,130	AC-4	R-454B	3.1	0.9	3.5	1
TOOL ROOM	113	1,130	AC-4	R-454B	3.1	0.9	3.5	1
					MAXIMUM ALLOWED REFRIGERANT:		110.1	
					TOTAL REFRIGERANT CHARGE:	27.08		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-6)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CONNECTIVITY LAB	3,672	36,720	AC-4	R-454B	3.1	28.0	113.8	1
OFFICE	110	1,100	AC-4	R-454B	3.1	0.8	3.4	1
OFFICE	110	1,100	AC-4	R-454B	3.1	0.8	3.4	1
TOOL ROOM	173	1,730	AC-4	R-454B	3.1	1.3	5.4	1
CORRIDOR	422	4,220	AC-4	R-454B	3.1	3.2	13.1	1
					MAXIMUM ALLOWED REFRIGERANT:		139.1	
					TOTAL REFRIGERANT CHARGE:	34.22		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (AC-7)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CONFERENCE ROOM	693	6,930	AC-4	R-454B	3.1	5.0	21.5	1
COPIER OFFICE SUPPLIES	362	3,620	AC-4	R-454B	3.1	2.6	11.2	1
EXECUTIVE OFFICE	280	2,800	AC-4	R-454B	3.1	2.0	8.7	1
EXECUTIVE OFFICE	280	2,800	AC-4	R-454B	3.1	2.0	8.7	1
EXECUTIVE OFFICE	267	2,670	AC-4	R-454B	3.1	1.9	8.3	1
EXECUTIVE OFFICE	272	2,720	AC-4	R-454B	3.1	1.9	8.4	1
KITCHENETTE	270	2,700	AC-4	R-454B	3.1	1.9	8.4	1
LOBBY	965	9,650	AC-4	R-454B	3.1	6.9	29.9	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
OFFICE	80	800	AC-4	R-454B	3.1	0.6	2.5	1
RECEPTION	300	3,000	AC-4	R-454B	3.1	2.1	9.3	1
					MAXIMUM ALLOWED REFRIGERANT:		134.2	
					TOTAL REFRIGERANT CHARGE:	31.01		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

AMOUNT OF REFRIGERANT PER OCCUPIED SPACE CALCULATIONS (IHP-1)

ROOM	AREA (sq. ft.)	VOLUME (cu. ft.)	SERVED BY	REFRIGERANT TYPE	REFRIGERANT CONCENTRATION LIMIT (lb/MCf)	REFRIGERANT CHARGE (lb)	MAX. ALLOWED REFRIGERANT (lb)	NOTES
CLASSROOM	855	22,230	AC-1	R-454B	3.1	7.0	68.9	1
					MAXIMUM ALLOWED REFRIGERANT:		68.9	
					TOTAL REFRIGERANT CHARGE:	7.00		

1. OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

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LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

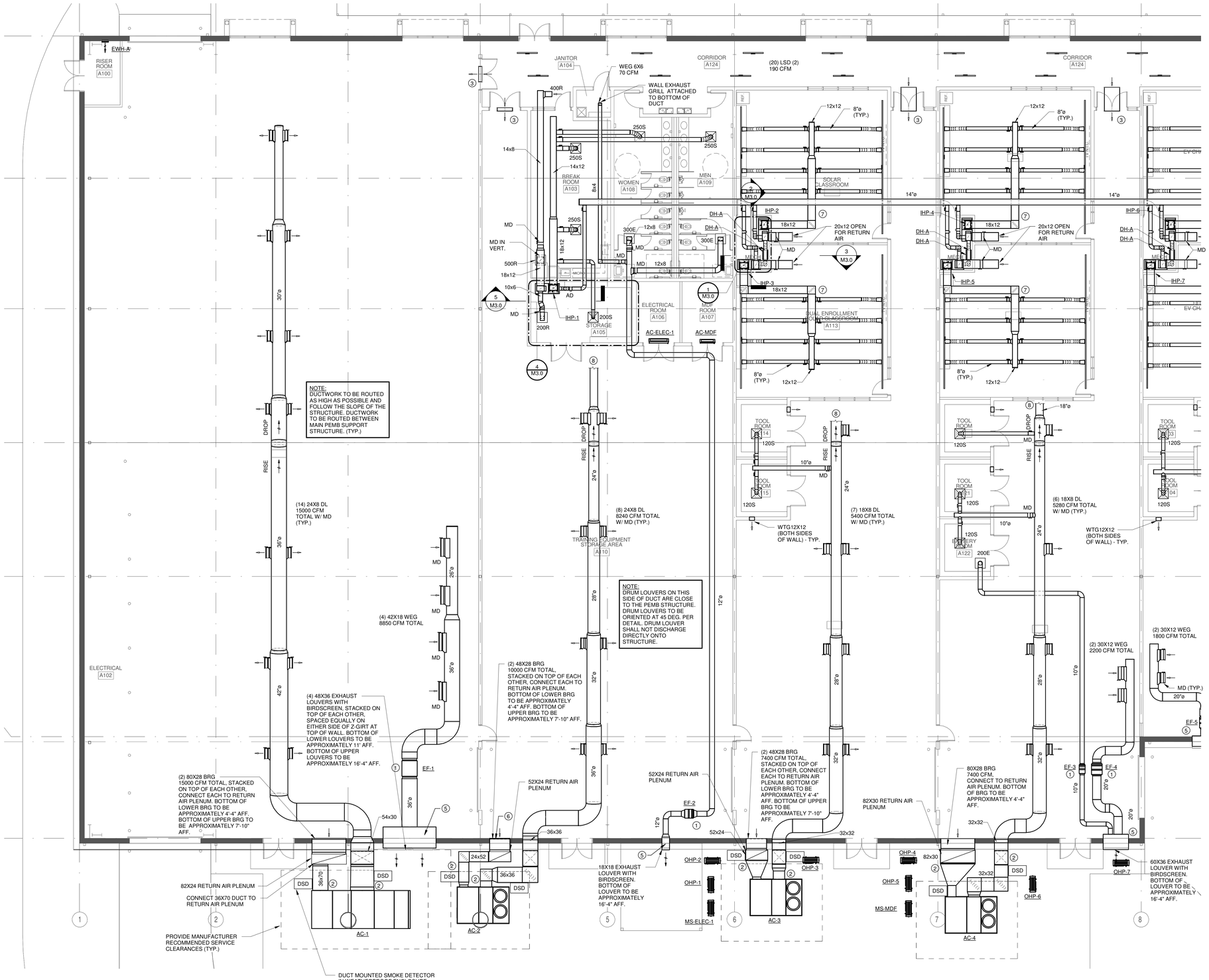
SHEET TITLE: MECHANICAL CALCS

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M0.5



1 MECHANICAL - FLOOR PLAN - AREA "A"

1/8" = 1'-0"

0' 4' 8' 16'

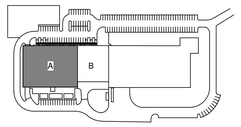
SCALE: 1/8" = 1' - 0"

KEYED NOTES

1. SUSPEND FAN FROM STRUCTURE ABOVE WITH THREADED RODS AND SPRING VIBRATION ISOLATORS. PROVIDE UNISTRUT BRACING BETWEEN THREADED RODS TO PREVENT TWISTING.
2. TRANSITION TO FULL SIZE OF AC UNIT OPENING.
3. 36 X 24 WALL TRANSFER GRILLE (WTG) ON EACH SIDE OF WALL. INSTALL AS HIGH AS POSSIBLE.
4. GRILLE SHALL BE INSTALLED ABOVE CEILING.
5. PROVIDE SHEETMETAL PLENUM (FULL SIZE OF LOUVER X 30" DEEP). COVER PLENUM WITH 2" THICK DUCTBOARD.
6. RETURN AIR PLENUM, FULL SIZE OF RETURN GRILLE X LENGTH SHOWN. DIVIDE RETURN GRILLE AND PLENUM INTO MULTIPLE SECTIONS TO FIT AROUND Z-GIRT.
7. CONTINUOUS LINEAR SLOT DIFFUSER (LSD) WITH (2)-1" SLOTS AND WITH (8) ACTIVE SUPPLY SECTIONS. PROVIDE INSULATED SUPPLY PLENUM AND BALANCE EACH SECTION TO 140 CFM. CONTINUOUS SLOT DIFFUSER SHALL BE LENGTH SHOWN.
8. SEE M1.2 FOR CONTINUATION.

GENERAL NOTES

1. ALL EXPOSED ROUND SUPPLY DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND IN THE CENTER OF EACH LAB. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.
2. ALL EXPOSED ROUND EXHAUST DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND ROUTE AS SHOWN. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.
3. ALL EXPOSED RECTANGULAR SUPPLY AND EXHAUST DUCTWORK SHALL HAVE 1" INTERNAL LINER. CLEAR INSIDE DIMENSIONS SHOWN. ADJUST SHEETMETAL SIZE TO ACCOMMODATE LINER THICKNESS. RECTANGULAR DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.
4. ALL EXTERIOR SUPPLY AND RETURN DUCTWORK TO BE INSULATED WITH 2" THICK DUCTBOARD AND FINISHED WITH AN ALUMINUM JACKET. ALUMINUM JACKET TO BE PAINTED TO MATCH BUILDING.



KEY PLAN

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BEVILL STATE COMMUNITY COLLEGE

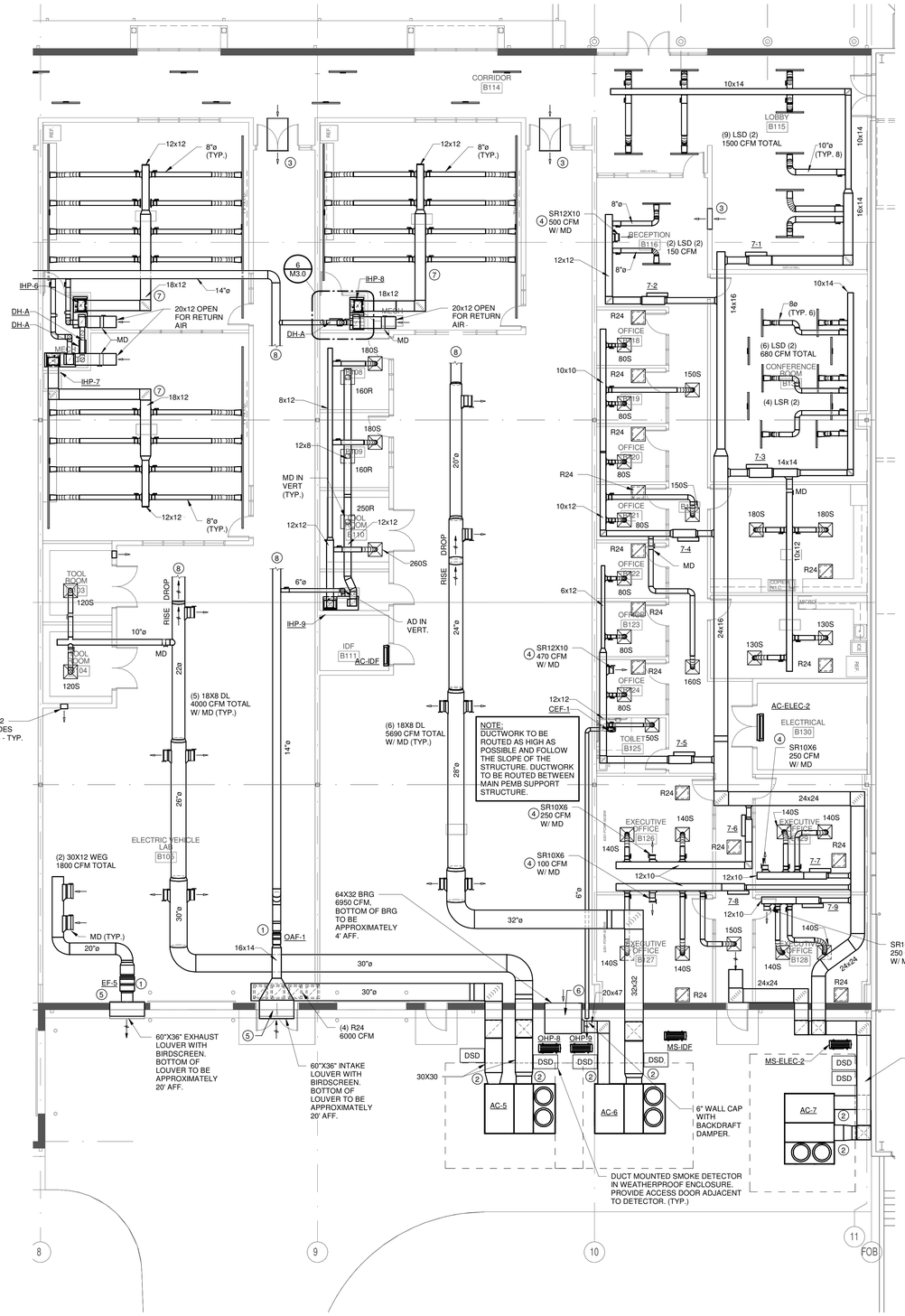
SHEET TITLE: MECHANICAL - FLOOR PLAN - AREA "A"

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M1.0



KEYED NOTES

1. SUSPEND FAN FROM STRUCTURE ABOVE WITH THREADED RODS AND SPRING VIBRATION ISOLATORS. PROVIDE UNISTRUT BRACING BETWEEN THREADED RODS TO PREVENT TWISTING.
2. TRANSITION TO FULL SIZE OF AC UNIT OPENING.
3. 36 X 24 WALL TRANSFER GRILLE (WTG) ON EACH SIDE OF WALL. INSTALL AS HIGH AS POSSIBLE.
4. GRILLE SHALL BE INSTALLED ABOVE CEILING.
5. PROVIDE SHEETMETAL PLENUM (FULL SIZE OF LOUVER X 30" DEEP). COVER PLENUM WITH 2" THICK DUCTBOARD.
6. RETURN AIR PLENUM, FULL SIZE OF RETURN GRILLE X LENGTH SHOWN. DIVIDE RETURN GRILLE AND PLENUM INTO MULTIPLE SECTIONS TO FIT AROUND Z-GIRT.
7. CONTINUOUS LINEAR SLOT DIFFUSER (LSD) WITH (2)-1" SLOTS AND WITH (8) ACTIVE SUPPLY SECTIONS. PROVIDE INSULATED SUPPLY PLENUM AND BALANCE EACH SECTION TO 140 CFM. CONTINUOUS SLOT DIFFUSER SHALL BE LENGTH SHOWN.
8. SEE M1.2 FOR CONTINUATION.

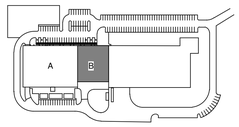
GENERAL NOTES

1. ALL EXPOSED ROUND SUPPLY DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND IN THE CENTER OF EACH LAB. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

2. ALL EXPOSED ROUND EXHAUST DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND ROUTE AS SHOWN. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

3. ALL EXPOSED RECTANGULAR SUPPLY AND EXHAUST DUCTWORK SHALL HAVE 1" INTERNAL LINER. CLEAR INSIDE DIMENSIONS SHOWN. ADJUST SHEETMETAL SIZE TO ACCOMMODATE LINER THICKNESS. RECTANGULAR DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

4. ALL EXTERIOR SUPPLY AND RETURN DUCTWORK TO BE INSULATED WITH 2" THICK DUCTBOARD AND FINISHED WITH AN ALUMINUM JACKET. ALUMINUM JACKET TO BE PAINTED TO MATCH BUILDING.



KEY PLAN

1 MECHANICAL - FLOOR PLAN - AREA "B"

1/8" = 1'-0"

0' 4' 8' 16'

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

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SHEET TITLE:
MECHANICAL - FLOOR PLAN - AREA "B"

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

M1.1

1 MECHANICAL - FLOOR PLAN - UPPER DUCTWORK

1/8" = 1'-0"

0' 4' 8' 16'

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

GENERAL NOTES

1. ALL EXPOSED ROUND SUPPLY DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND IN THE CENTER OF EACH LAB. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

2. ALL EXPOSED ROUND EXHAUST DUCTWORK SHALL BE DOUBLE WALL SPIRAL WITH 1" LINER AND PERFORATED INNER SHELL. CLEAR INSIDE DIMENSIONS SHOWN. SUSPEND DUCTWORK AS HIGH AS POSSIBLE AND ROUTE AS SHOWN. COORDINATE WITH OTHER TRADES. DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

3. ALL EXPOSED RECTANGULAR SUPPLY AND EXHAUST DUCTWORK SHALL HAVE 1" INTERNAL LINER. CLEAR INSIDE DIMENSIONS SHOWN. ADJUST SHEETMETAL SIZE TO ACCOMMODATE LINER THICKNESS. RECTANGULAR DUCTWORK TO HAVE PAINT GRIP FINISH. PAINTING BY OTHERS.

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SHEET TITLE:
MECHANICAL - FLOOR PLAN - UPPER DUCTWORK

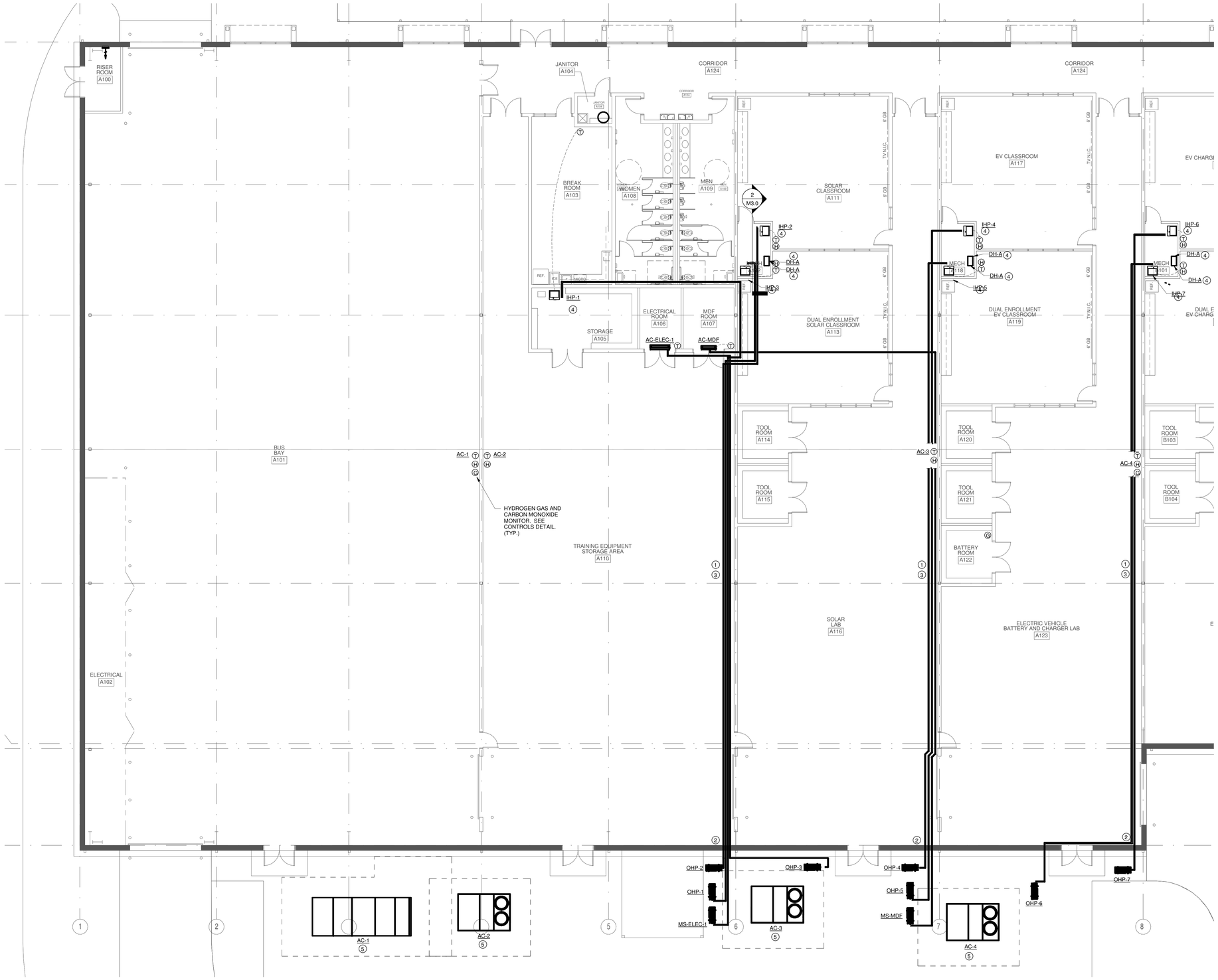
ALABAMA LICENSED PROFESSIONAL ENGINEER
NO. 27475
12/19/2025
CHRISTOPHER L. ROBINSON

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

M1.2



1 MECHANICAL - FLOOR PLAN - PIPING - AREA "A"

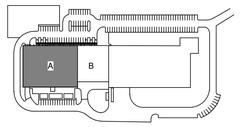
1/8" = 1'-0"

0' 4' 8' 16'

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

KEYED NOTES

1. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE MULTIPLE 1-1/2" SCH40 STEEL SLEEVES THRU EXTERIOR WALL. REFRIGERANT PIPING SHALL BE ROUTED DOWN THE INTERIOR FACE OF THE WALL AND THEN OUT TO THE OUTDOOR HEAT PUMPS. COVER OUTDOOR REFRIGERANT PIPING WITH INSULATION AND ALUMINUM JACKET.
3. PROVIDE UNISTRUT PIPE RACK ON WALL FOR REFRIGERANT PIPING. SECURE PIPING TO RACK.
4. PROVIDE 3/4" DRAIN WITH TRAP AND ROUTE TO FLOOR DRAIN OR WALL DRAIN BOX.
5. PROVIDE 1-1/2" CONDENSATE DRAIN WITH TRAP AND ROUTE TO DRY WELL.



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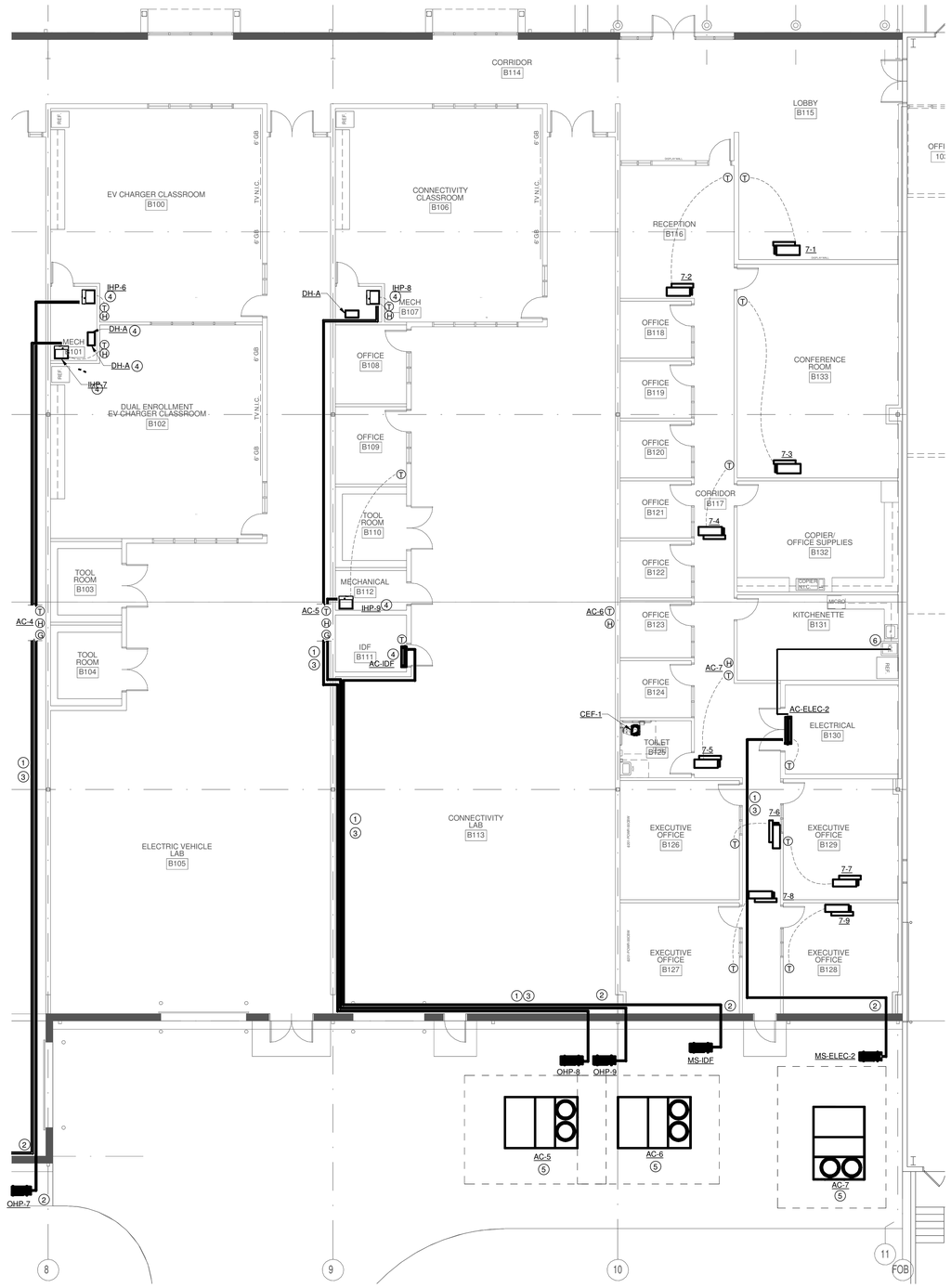
SHEET TITLE: MECHANICAL - PIPING PLAN - AREA "A"

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 27475 CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M2.0



1 MECHANICAL - FLOOR PLAN - PIPING - AREA "B"

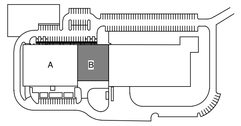
1/8" = 1'-0"

0' 4' 8' 16'

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

KEYED NOTES

1. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE MULTIPLE 1-1/2" SCH40 STEEL SLEEVES THRU EXTERIOR WALL. REFRIGERANT PIPING SHALL BE ROUTED DOWN THE INTERIOR FACE OF THE WALL AND THEN OUT TO THE OUTDOOR HEAT PUMPS. COVER OUTDOOR REFRIGERANT PIPING WITH INSULATION AND ALUMINUM JACKET.
3. PROVIDE UNISTRUT PIPE RACK ON WALL FOR REFRIGERANT PIPING. SECURE PIPING TO RACK.
4. PROVIDE 3/4" DRAIN WITH TRAP AND ROUTE TO FLOOR DRAIN OR WALL DRAIN BOX.
5. PROVIDE 1-1/2" CONDENSATE DRAIN WITH TRAP AND ROUTE
6. PROVIDE 3/4" CONDENSATE DRAIN TO CONDENSATE DRAIN BOX (SEE PLUMBING).



KEY PLAN

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
MECHANICAL - PIPING PLAN - AREA "B"

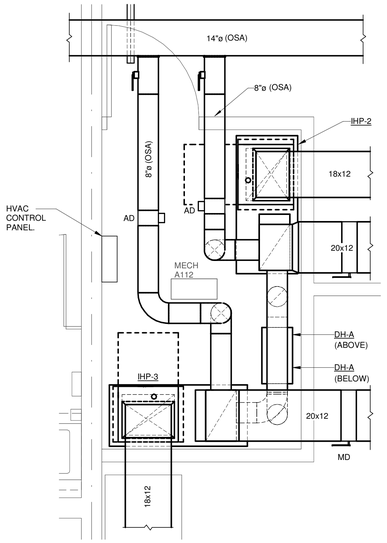
ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER CHRISTOPHER L. ROBINSON 12/19/2025

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

M2.1

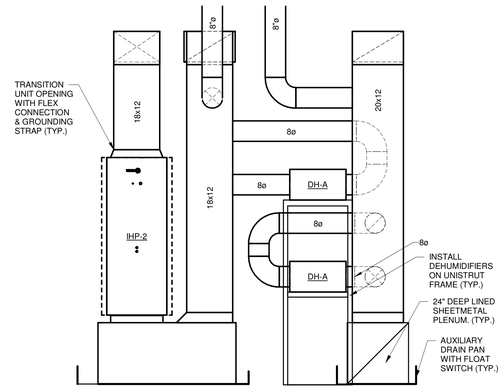


1 MECHANICAL - A112 LARGE SCALE FLOOR PLAN

1/2" = 1'-0"

0' 1' 2' 4'

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

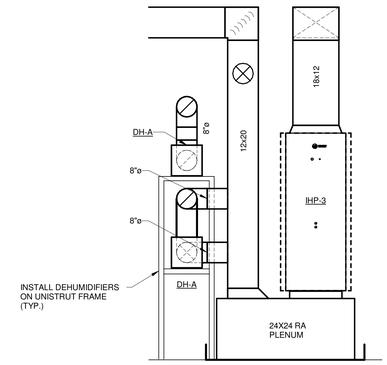


2 TYPICAL SECTION AT CLASSROOM IHP & DH-A

1/2" = 1'-0"

0' 1' 2' 4'

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

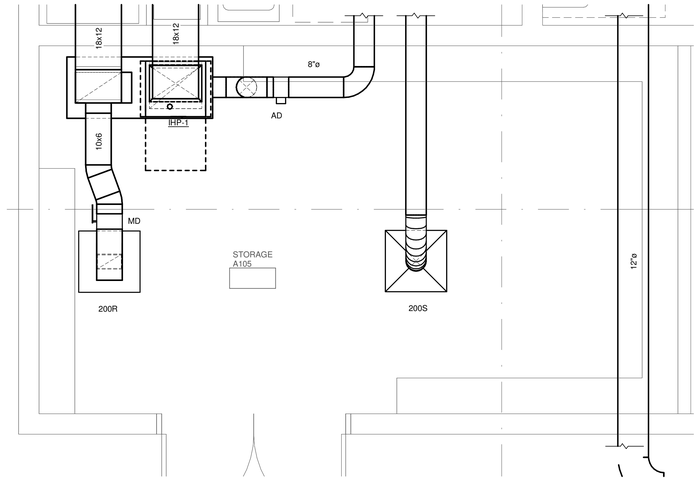


3 TYPICAL SECTION AT CLASSROOM IHP

1/2" = 1'-0"

0' 1' 2' 4'

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

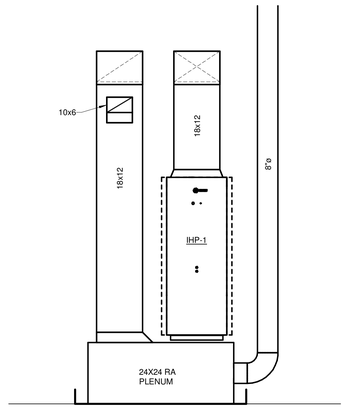


4 MECHANICAL - A105 LARGE SCALE FLOOR PLAN

1/2" = 1'-0"

0' 1' 2' 4'

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

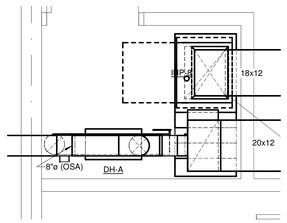


5 A105 - IHP-1 SECTION VIEW

1/2" = 1'-0"

0' 1' 2' 4'

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



6 MECHANICAL - B107 LARGE SCALE FLOOR PLAN

1/2" = 1'-0"

0' 1' 2' 4'

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

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ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: MECHANICAL - LARGE SCALE FLOOR PLANS

ALABAMA LICENSED No. 27475 PROFESSIONAL ENGINEER 12/19/2025 CHRISTOPHER L. ROBINSON

PROJ. MGR.:	CLR
DRAWN:	MEH
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: M3.0

RISER DIAGRAM SYMBOLS

- STATIONARY CIRCUIT BREAKER
- STATIONARY SWITCH
- STATIONARY FUSE
- DRAWOUT CIRCUIT BREAKER - NUMBER IN CIRCLE CORRESPONDS TO MARK ON SWITCHBOARD ELEVATION AND SCHEDULE.
- TRANSFORMER: DELTA PRIMARY, SOLIDLY GROUNDED, WYE SECONDARY.
- POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- GROUND
- ENCLOSURE
- PANELBOARD
- STATIONARY CIRCUIT BREAKER WITH INTERGRAL FUSE
- PAD MOUNTED TRANSFORMER
- J JUNCTION BOX
- MH MANHOLE
- PB PULL BOX
- EPM ELECTRONIC POWER METER.
- VSR VOLTAGE SENSING RELAY
- SPD SURGE SUPPRESSION DEVICE
- LOAD BREAK CONNECTION
- FEEDER/SERVICE
- NO CONNECTION
- CONNECTED

AUDIO - VISUAL

- C CAMERA
- IC INTERCOM CALL-IN STATION
- MI INTERCOM MASTER STATION
- S SPEAKER, CEILING MOUNTED, FLUSH ('S' DENOTES SURFACE MOUNTED)
- SM SPEAKER WITH INTERCOMM MICROPHONE, CEILING MOUNTED
- TV TV / MONITOR
- S SPEAKER, WALL MTD, FLUSH ('S' DENOTES SURFACE MOUNTED)
- P PROJECTOR
- V VIDEO CONNECTOR OUTLET, CEILING MOUNTED
- V VIDEO CONNECTOR OUTLET, WALL MOUNTED
- V VIDEO CONNECTOR OUTLET, FLOOR MOUNTED
- PA PUBLIC ADDRESS OUTLET, WALL MOUNTED
- PA PUBLIC ADDRESS OUTLET, CEILING MOUNTED

JUNCTION & OUTLET BOXES

- J JUNCTION BOX - CEILING MOUNTED
- V/D J VOICE/DATA JUNCTION BOX - CEILING MOUNTED
- J JUNCTION BOX - FLOOR MOUNTED
- J JUNCTION BOX - WALL MOUNTED
- J OUTLET BOX - WALL MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
- V/D J OUTLET BOX - WALL MOUTNED, VOICE/DATA WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
- J OUTLET BOX - FLOOR MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT

POWER AND AUXILIARY - FLOOR OUTLETS

POUR IN PLACE (FLUSH UNLESS OTHERWISE NOTED)

- #D MULTI-SERVICE W/ NEMA 5-20R DUPLEX RECEPTACLE & DATA OUTLET. (2) DATA OUTLETS UNLESS OTHERWISE NOTED LEGRAND EFB4SS - (2)SP8W (1)EFB-MAAP (1) SP26W
- MULTI-SERVICE W/ (6) NEMA 5-20R DUPLEX RECEPTACLE & (2) 2D DATA OUTLETS LEGRAND EFB10S

NOTE:

1. VERIFY LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.
2. PROVIDE EXTERNAL KNOCKOUT PLATES, VOLTAGE DIVIDERS, AND CONDUIT ADAPTERS AS REQUIRED FOR CONDUIT ROUGH-IN AS IT PERTAINS TO THE DEVICES' COMPARTMENT ORDER.
3. PROVIDE DEVICES AS REQUIRED FOR COMPARTMENTS MEETING THE DEVICE SPECIFICATION.

STANDARD WALL MOUNTING HEIGHTS

DEVICE OR EQUIPMENT TYPE	MOUNTING HEIGHT (AFF/AFG)	MEASURED TO	NOTES
RECEPTACLES - NORMAL AREAS	18"	CENTER	1
RECEPTACLES - ABOVE COUNTER	4" (ABOVE COUNTER OR BACKSPLASH)	TOP	1, 4
RECEPTACLES - EXTERIOR AREAS	18"	CENTER	1
RECEPTACLES - UNDER COUNTER	18"	CENTER	1
AV, COAX, DATA & TELECOM	18"	CENTER	1, 4
LIGHT SWITCH	46" (MAX.)	CENTER	1
WALL SWITCH / SENSOR	46" (MAX.)	CENTER	1
SENSORS - WALL MOUNTED	94"	CENTER	1, 2
REMOTE TEST SWITCHES	46" (MAX.)	CENTER	1
PANELBOARDS	78"	TOP	1, 3
FA NOTIFICATION DEVICES	82"	CENTER	1
FA PULL STATIONS	46"	CENTER	1
FA CONTROL PANEL	66" (MAX.)	CENTER (DISPLAY WINDOW)	
FA REMOTE ANNUCIATOR	66"	CENTER (DISPLAY WINDOW)	

NOTES:

1. UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON DRAWINGS OR DETAILS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
2. CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.
3. MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION, WHICHEVER IS HIGHER. STACKING OF SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS AND MOTOR STARTERS IS PERMITTED.
4. MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH (IF APPLICABLE) TO TOP OF BOX. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION.

TELE/DATA

- DATA OUTLET AT CEILING FOR WIRELESS ACCESS POINT, (2) CAT6A DATA CONNECTION.
- DATA OUTLET, 2 CAT6 DATA CONNECTION.
- DATA OUTLET WITH FLEXIBLE FURNITURE CONNECTION AND CONDUIT STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
- EMERGENCY PHONE
- WALL MOUNTED DATA RACK/CABINET
- FLOOR MOUNTED DATA RACK/CABINET, 4 POST RACK
- TBB BACKBOARD, 4'X8'X3/4" PLYWOOD WITH 2 COATS OF FIRE RETARDENT BLUE ENAMEL PAINT.
- CONDUIT WITH NYLON FISH CORD
- CONDUIT WITH NYLON FISH CORD AND BUSHINGS TO NEAREST V/D PATHWAY.

TELE/DATA CONDUIT SIZING CHART	
TOTAL NUMBER OF CABLES	CONDUIT SIZE
1-6	1" C.
7-10	1 1/4" C.

NOTES

1. CONDUIT SIZES ARE BASED ON NEC 40% FILL CAPACITY WITH ALL CABLES HAVING AN OUTSIDE DIAMETER OF 0.25".
2. #V AND #D DENOTE THE NUMBER OF VOICE AND DATA CABLES RESPECTIVELY.
3. PROVIDE 2 GANG BOX WITH 1 GANG PLASTER RING FOR ALL OUTLETS.
4. ALL OUTLETS ARE TO HAVE TWO (2) VOICE AND TWO (2) DATA CONNECTIONS U.O.N.

FIRE ALARM

DETECTION / INITIATION

- DUCT SMOKE DETECTOR WITH REMOTE LED INDICATOR WHERE REQUIRED. 'R' - RETURN, 'S' - SUPPLY
- FS FIRE ALARM FLOW SWITCH
- TS FIRE ALARM TAMPER SWITCH
- F FLAME DETECTOR - FLAME
- HEAT DETECTOR
- SMOKE DETECTOR
- CO CARBON MONOXDIDE
- F FIRE ALARM PULL BOX

CONTROLS AND SUPERVISORY

- R RELAY
- CM CONTROL MODULE WITH RELAY
- MM MONITOR MODULE

PANELS

- CONTROL PANEL - BASIC SHAPE
- HVAC CONTROL PANEL FOR HVAC EQUIPMENT
- FAA FIRE ALARM ANNUNCIATOR
- FAC FIRE ALARM COMMUNICATOR
- FACP FIRE ALARM CONTROL PANEL SURFACE OR FLUSH MOUNTED. (AS SHOWN ON PLANS).
- NAC FIRE ALARM NAC
- FATC FIRE ALARM TERMINAL CABINET
- FTR FIRE ALARM TRANSPONDER
- SAP SPRINKLER ALARM PANEL
- EVAC VOICE EVACUATION PANEL

NOTIFICATION

- F FIRE ALARM STROBE
- F FIRE ALARM HORN - STROBE
- FK FIRE ALARM STROBE - CEILING
- FK FIRE ALARM HORN - STROBE - CEILING
- FK FIRE ALARM - COMBINATION SPEAKER AND STROBE - CEILING
- MIC REMOTE MIC FOR EVACUATION
- RTS REMOTE TEST SWITCH
- REMOTE LED INDICATOR

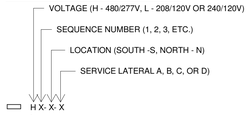
SECURITY

- B BELL
- CR CARD READER
- CCTV CAMERA - CEILING
- CCTV CAMERA - WALL
- MTV CCTV MONITOR
- CCTV CCTV OUTLET - POWER SUPPLY
- B DOOR BUZZER
- DC DOOR CONTACT
- DL ELECTRIC DOOR LOCK-HINGE OR MOTORIZED BOLT
- ML ELECTRIC DOOR MOTOR LOCK
- ES ELECTRIC DOOR STRIKE
- PUSH BUTTON
- S HORN SPEAKER - CEILING
- S HORN SPEAKER - WALL
- IC INTERCOM CALL STATION
- DS INTERCOM DUTY STATION
- MI INTERCOM MASTER STATION
- KP KEYPAD
- MD MOTION DETECTOR
- SCP SECURITY CONTROL PANEL
- J CR JUNCTION BOX - WALL MOUNTED. FUTURE CARD READER WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
- J KP JUNCTION BOX - WALL MOUNTED. FUTURE KEY PAD WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.

PANELBOARDS

- LIGHTING & APPLIANCE ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.
- POWER DISTRIBUTION ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.

ELECTRICAL PANEL NAMING CONVENTION:



EXAMPLE:
PANEL - H1NAL (480/277V, FIRST FLOOR, NORMAL, BUILDING PART A, LIGHTING METERING)

EXAMPLE:
PANEL - MPA (MAIN PANEL SERVICE DISCONNECT, 480/277V, SERVICE LATERAL "A")

RECEPTACLES

WALL MOUNTED

- DUPLEX RECEPTACLE - NEMA 5-20R
- RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R
- SPLIT WIRED RECEPTACLE - NEMA 5-20R
- IG ISOLATED GROUND RECEPTACLE - NEMA 5-20R IG
- GROUND FAULT RECEPTACLE - NEMA 5-20R GF
- GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF
- WP WEATHER PROOF RECEPTACLE - NEMA 5-20R GF, TR, WR W/ IN-USE EXTRA DUTY WET LOCATION COVER
- QUADRUPLEX GROUND FAULT RECEPTACLE - NEMA 5-20R GF
- QUADRUPLEX GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF
- QUADRUPLEX RECEPTACLE - NEMA 5-20R
- QUADRUPLEX RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R
- SIMPLEX RECEPTACLE - NEMA 5-20R
- SIMPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT
- SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION
- SINGLE RECEPTACLE - SPECIAL PURPOSE
- SINGLE RECEPTACLE - A=NEMA 5-30R; B=NEMA 6-30R; C=NEMA 14-30R
- SINGLE RECEPTACLE - A=NEMA 5-50R; B=NEMA 6-50R; C=NEMA 14-50R
- MULTI-SERVICE WALL RECEPTACLE
- USB DUPLEX RECEPTACLE - NEMA 5-20R WITH TWO FULL OUTPUT USB PORTS
- TL SINGLE RECEPTACLE - TWISTLOCK, AS SPECIFIED.
- SINGLE RECEPTACLE - TWISTLOCK, AS SPECIFIED.

CEILING MOUNTED

- DUPLEX RECEPTACLE - NEMA 5-20R
- DUPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT
- SIMPLEX RECEPTACLE - NEMA 5-20R
- SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION
- SINGLE RECEPTACLE - SPECIAL PURPOSE

POWER

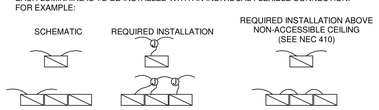
- H ELECTRIC CABINET HEATER
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH
- R RELAY
- DISCONNECT SWITCH, UNFUSED, 30A, 3P UNLESS OTHERWISE NOTED.
- DISCONNECT SWITCH, FUSED, 30A, 3P UNLESS OTHERWISE NOTED.
- TS TIME CLOCK SWITCH
- CIRCUIT BREAKER, INDIVIDUALLY ENCLOSED
- M METER (WITH SOCKET ASSSEMBLY)
- T TRANSFORMER, GENERAL PURPOSE DRY-TYPE, REFER TO SCHEDULE
- EV CHARGER
- EPO ABORT SWITCH - EMERGENCY POWER OFF
- POWER POLE
- PRE-WIRED, ALUMINUM, SURFACE MOUNTED RACEWAY.

BRANCH CIRCUITS

- CONCEALED IN CEILING, WALL, OR IN CEILING SLAB.
- CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
- EXPOSED.
- E EMERGENCY.
- O EMPTY CONDUIT, 3/4" UNLESS OTHERWISE NOTED WITH NYLON PULL CORD.
- SF CONDUIT SEAL FITTING.
- HOMERUN TO PANELBOARD AND 20A, 1P BREAKER, UON.
  NOTE: SHOWN 2#12 AND 1#12(G)-3/4"C.
  - 3#12 AND 1#12(G)-3/4"C
  - 4#12 AND 1#12(G)-3/4"C
  - 10 — 2#10 AND 1#10(G)-3/4"C
  - 10 — 3#10 AND 1#10(G)-3/4"C

  SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE NUMBER OF WIRES REQUIRED. GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122. NUMBER OF HASHMARKS DO NOT INCLUDE GROUND WIRE.
- RISER: UP, RUNNING TO SOURCE.
- RISER: DOWN, RUNNING TO SOURCE.

BRANCH CIRCUIT WIRING FOR LIGHTING IS SHOWN SCHEMATICALLY. EACH LUMINAIRE IS TO BE INSTALLED WITH AN INDIVIDUAL FLEXIBLE CONNECTION. FOR EXAMPLE:



LIGHTING (SEE LUMINAIRE SCHEDULE)

CEILING-RECESSED

- RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN
- RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- RECESSED WALL WASHER
- RECESSED WALL WASHER. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

CEILING-SURFACE/PENDANT

- SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
- SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CONNECTED TO LIFE SAFETY EMERGENCY POWER SYSTEM.
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- SURFACE MOUNTED WALL WASHING LUMINAIRE
- SURFACE MOUNTED WALL WASHING LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
- SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- TRACK LIGHT WITH TRACK LENGTH AS NOTED OR SCHEDULED
- CEILING FAN
- EXIT SIGN - CEILING MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN - CEILING MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN - CEILING MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE

WALL

- WALL MOUNTED SCONCE LUMINAIRE AS SCHEDULED
- WALL MOUNTED SCONCE LUMINAIRE LIFE SAFETY EMERGENCY EGRESS LIGHTING. AS SCHEDULED
- WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE
- WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE - LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- EXIT SIGN - BACK MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN - BACK MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN - END MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EMERGENCY EGRESS LIGHT.

LIGHTING - EXTERIOR

- BOLLARD
- GROUND MOUNTED SPOT, FLOOD OR WELL LIGHT
- POLE-ARM MOUNTED AREA LIGHT
- POLE-TOP MOUNTED AREA LIGHT
- WALL PACK LIGHT

SWITCHES

- $ SINGLE POLE SWITCH, 20A, 125/277V.
- 3$ THREE WAY SWITCH, 20A, 125/277V.
- 4$ FOUR WAY SWITCH, 20A, 125/277V.
- 2$ DOUBLE POLE SWITCH, 20A, 125/277V.
- MC$ MOMENTARY CONTACT SWITCH, 1-POLE, 20A, 125/277V.
- P$ PILOT LIGHT SWITCH (LIGHT ON WHEN IN 'ON' POSITION) 1-POLE, 20A, 125/277V.
- L$ LIGHTED TOGGLE (LIGHT ON WHEN SWITCH IS 'OFF' POSITION) 1-POLE, 20A, 125/277V.
- K$ KEY OPERATED SWITCH, 1-POLE, 20A, 125/277V.
- T$ TIME SWITCH, 1-POLE, 20A, 125/277V.
- LVD LOW VOLTAGE DIMMING SWITCH - "ON/OFF/RAISE-LOWER"
- LVS LOW VOLTAGE SWITCH - TWO BUTTON "ON/OFF"
- MM$ MOTOR RATED SWITCH, 20A RATED UNLESS OTHERWISE NOTED, NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V RATED.
- MSM$ MANUAL MOTOR STARTER SWITCH, 20A RATED UNLESS OTHERWISE NOTED, NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V RATED.
- DS DIMMER SWITCH LINE VOLTAGE, ON/OFF AND 0-10V DIMMING
- TOR MOMENTARY PUSHBUTTON, 2-HOUR TIMED OVERRIDE
- RTS EMERGENCY BATTERY REMOTE TEST SWITCH AND CHARGING INDICATOR; 1-POLE NORMALLY CLOSED MOMENTARY TEST SWITCH/SINGLE RED LED CHARGE INDICATOR TYPE, SINGLE GANG BOX, FACEPLATE COLOR WHITE.
- WALL SWITCH / VACANCY SENSOR, (MANUAL: ON/OFF - AUTO: ON 50% / OFF), SUBSCRIPT 'D' INDICATES DIMMING.
- WALL SWITCH / OCCUPANCY SENSOR, (MANUAL: ON/OFF - AUTO: ON 100% / AUTO OFF), SUBSCRIPT 'D' INDICATES DIMMING.
- VACANCY SENSOR, CEILING MTD (AUTO: ON 50% / 20 MINUTE OFF)
- OCCUPANCY SENSOR, CEILING MTD (AUTO: ON 100% / 20 MINUTE OFF)
- DAYLIGHT SENSOR, CEILING MTD
- PE PHOTO-ELECTRIC / PHOTOCELL SWITCH
- LM LIGHTING CONTROL MODULE.
- LE LIGHTING CONTROL MODULE - EMERGENCY BYPASS, UL 924 LISTED.
- RM RECEPTACLE CONTROL MODULE.
- LCP-XX LIGHTING CONTROL PANEL, SURFACE MOUNTED / FLUSH MOUNTED AS SHOWN.

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
2. CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
5. ALL PANELBOARDS ARE 3Ø 4W UNLESS OTHERWISE NOTED.
6. ALL BRANCH CIRCUIT CONDUIT SHALL BE 3/4" CONDUIT MINIMUM PER SPECIFICATIONS.
7. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
8. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
11. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
12. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
13. FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.
14. FURNISH & INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL, STATE, & LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER. FIRE ALARM CONTRACTOR TO HOLD A CURRENT LICENSE TO CONDUCT BUSINESS ISSUED BY THE STATES FIRE MARSHAL'S OFFICE.
15. CONTRACTOR SHALL PROVIDE WARNING LABELS COMPLYING WITH NEC ARTICLE 110.16 ON NEW ELECTRICAL EQUIPMENT OR EXISTING EQUIPMENT THAT IS MODIFIED.
16. CONDUCTOR SIZES INDICATED ON THE DRAWINGS INCLUDE AMBIENT TEMPERATURE AND VOLTAGE DROP COMPENSATIONS. VOLTAGE DROP COMPENSATION INCLUDED IS UP TO 200' FOR 120/208V CIRCUITS AN 400' FOR 277/480V CIRCUITS. ADJUST CONDUCTOR SIZE TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3% IF INSTALLED FIELD LENGTHS ARE GREATER.
17. CONTRACTOR SHALL LABEL ALL PANELS WITH AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC.
18. CONTRACTOR SHALL LABEL ELECTRICAL PANELBOARDS TO INDICATE THE DEVICE OR EQUIPMENT WHERE FEEDER ORIGINATES IN ACCORDANCE WITH NEC 408.4(B).
19. ALL BREAKERS IN SWITCHBOARD AND PANELBOARDS SHALL BE FULLY RATED. SERIES RATING IS NOT ALLOWED, UNLESS SPECIFICALLY NOTED.
20. FOR ALL CONDUITS PASSING THROUGH RATED WALLS: PROVIDE FIRESTOPPING FOR RACEWAYS PENETRATING THROUGH RATED WALLS IN ACCORDANCE WITH NEC 300.21. PROVIDE ACCORDINGLY TO MAINTAIN FLOOR AND/OR WALL FIRE ASSEMBLY DESIGN AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND AS REQUIRED.
21. PROVIDE THE SERVICES OF A THIRD PARTY CONTRACTOR TO CONDUCT A RADIO SIGNAL STRENGTH TEST WITHIN THE BUILDING TO DETERMINE ID A TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM IS REQUIRED IN ACCORDANCE WITH NFPA 1:11:10 AND NFPA 72. TESTING SHALL BE TIMED AND COORDINATED WITH THE ARCHITECT AND AHJ SO THAT BUILDING ELEMENTS THAT MIGHT AFFECT THE FINAL SIGNAL STRENGTH ARE IN PLACE.

    IF THE TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 1:11:10, NFPA 1221, AND/OR THE AHJ THEN PROVIDE A COMPLETE, APPROVED TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM WITHIN THE FACILITY TO MEET THE COVERAGE AS DEFINED BY NFPA 1221-9.6:

    PROVIDE THE FOLLOWING COVERAGE PER NFPA 1221-9.6:
    NFPA 1221-9.6.7.1 - RADIO COVERAGE: RADIO COVERAGE SHALL BE PROVIDED THROUGHOUT THE BUILDING AS A PERCENTAGE OF FLOOR AREA AS SPECIFIED IN SECTION BELOW THROUGH SECTION ON AMPLIFICATION COMPONENTS.

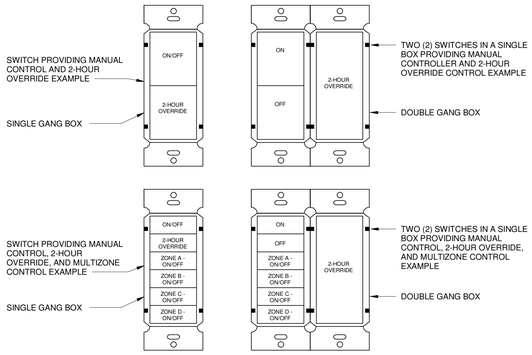
    NFPA 1221-9.6.8 - SIGNAL STRENGTH-9.6.8.1 INBOUND: A MINIMUM INBOUND SIGNAL STRENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THROUGHOUT THE COVERAGE AREA. THE INBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

    NFPA 1221-9.6.8.2 - OUTBOUND: A MINIMUM OUTBOUND STENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THEOUGHOUT THE COVERAGE AREA. THE OUTBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

    THE CONTRACTOR SAHLL INCLUDE IN THEIR BID PRICE AN ALLOWANCE OF $125,000 FOR THE SYSTEM DESIGN, PURCHASE, AND INSTALLATION OF ALL REQUIRED MATERIALS AND EQUIPMENT FOR THE SYSTEM. AN ALLOWANCE OF INCLUSION IN THE CONTRACT SUM IS SPECIFIED IN DIVISION ONE SUPPLEMENT, SECTION 018000 FOR THE COST OF THE SYSTEM. REFER TO THE DRAWINGS AND SECTION 16789 FOR GENERAL SYSTEM REQUIREMENTS AND PROVISIONS. SUPPLEMENTARY INSTRUCTIONS WILL BE ISSUED BY THE PROFESSIONAL TO PROVIDE A COMPLIANT SYSTEM AFTER REVIEW OF THE TEST RESULTS AS NECESSARY.
22. COORDINATE WITH GENERAL CONTRACTOR TO PAINT ALL EXPOSED CONDUIT OUTSIDE OF THE ELECTRICAL OR MECHANICAL ROOMS.
23. ITEMS IDENTIFIED AS "OWNER FURNISHED" ON THE CONSTRUCTION DOCUMENTS ARE BEING STORED BY THE OWNER AT 3611 INDUSTRIAL CT, JASPER, AL 35501. THIS STORAGE FACILITY IS ADJACENT TO THE PROJECT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING AND TRANSPORTING ITEMS FROM THE STORAGE FACILITY TO THE JOB SITE.THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DETAILS REGARDING ACCESS TO AND RECEIVING OF OWNER FURNISHED ITEMS.

ABBREVIATIONS

A	AMPERES	MB	MAIN BREAKER
AA	AMBIENT AIR COOLED	MLO	MAIN LUGS ONLY
AC	ABOVE COUNTER	MV	MEDIUM VOLTAGE
AHJ	AUTHORITY HAVING JURISDICTION	N	NEUTRAL
AIC	AMPERES INTERUPTING CAPACITY	NEC	NATIONAL ELECTRICAL CODE
AFF	ABOVE FINISHED FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AL	ALUMINUM	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
C	CONDUIT RACEWAY		OWNER FURNISHED, CONTRACTOR INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	OFCI	
		OFOI	OWNER FURNISHED, OWNER INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	P	POLES
CKTS	CIRCUITS	PF	POWER FACTOR
CTTS	CLOSED TRANSITION TRANSFER SWITCH	PH	PHASES
CU	COPPER	PVC	POLYVINYL CHLORIDE RACEWAY
DIA	DIAMETER	RELT	REDUCED ENERGY LET THROUGH AS REQUIRED BY NEC 240.87
EC	ELECTRICAL CONTRACTOR		
EGB	EXTERNAL GROUND BUS	RGS	RIGID GALVANIZED STEEL
EM	EMERGENCY	SPD	SURGE PROTECTIVE DEVICE
EP	EXPLOSION PROOF	TBB	TELEPHONE BACKBOARD
ERMS	ENERGY REDUCING MAINTENANCE SWITCH AS REQUIRED BY NEC 240.87	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS
EWC	ELECTRIC WATER COOLER	TR	TAMPER RESISTANT
FA	FORCED AIR COOLED	TX	TRANSFORMER
FMC	FLEXIBLE METAL CONDUIT	TYP	TYPICAL
G	GROUND	UON	UNLESS OTHERWISE NOTED
GFPE	GROUND FAULT PROTECTION FOR EQUIPMENT	V	VOLTS
		W	WIRES
GFI OR GFCI	GROUND FAULT PROTECTION FOR PERSONNEL	WP	WEATHERPROOF, NEMA 3R.
		EX	EXISTING TO REMAIN
H	MOUNTING HEIGHT TO CENTERLINE	XR	EXISTING, REMOVE
HID	HIGH INTENSITY DISCHARGE	XRR	EXISTING, REMOVE & RELOCATE
HP	HORSE POWER	XRL	EXISTING, RELOCATED
IG

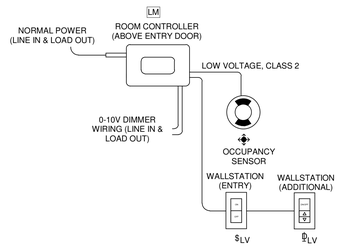


NOTE:

1. COORDINATE ALL SWITCH REQUIREMENTS WITH CONTROLS MANUFACTURER TO COMPLY WITH ALL CONTROL REQUIREMENTS OF EACH INDIVIDUAL SPACE. SEE LIGHTING CONTROL SCHEDULES AND SWITCH LEGEND. WHERE A MANUFACTURER REQUIRES A TWO GANG BOX OR A SINGLE GANG BOX, PROVIDE ALL RESULTING COSTS IN ADDITIONAL ROUGH-IN REQUIREMENTS.
2. ALL SWITCHES SHOWN GROUPED SHALL BE GANGED UNDER A SINGLE COVERPLATE.
3. ALL LIGHTING CONTROL BUTTONS SHALL BE CUSTOMIZED, FACTORY PRINTED FOR LOCATION AND/OR OPERATION SUCH AS "ON", "OFF", "DIM", "CLASSROOM", "BOARD", ETC. FIELD PRINTED LABELS ON THE BUTTONS WILL NOT BE ACCEPTABLE.

MULTIZONE SWITCH AND OVERRIDE SWITCH SCHEMATIC

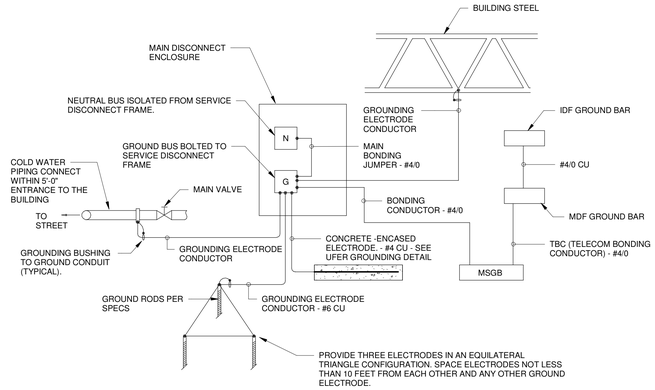
NOT TO SCALE



ROOM CONTROLLER TYPICAL WIRING DIAGRAM
NO TO SCALE

NOTES:

1. DETAIL IS DIAGRAMMATIC. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER AND PROVIDE ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATIONAL SYSTEM THAT MEETS THE INTENT OF THE CONTROL SCHEME. WHERE EMERENCY AND NORMAL ROOM CONTROLLERS ARE SHOWN IN THE SAME ROOM AND/OR CONTROLLING THE SAME ZONES, COORDIANTE WITH LIGHTING CONTROLS MANUFACTURER TO PROVIDE A LIGHTING CONTROLS SYSTEM WHICH MEETS THE INTENT OF THE CONTROL SCHEME. IT IS PERMITTED TO HAVE ONE (1) ROOM CONTROLLER AS A SYSTEM OR MULTIPLE ROOM CONTROLLERS WORKING AS A SYSTEM WHICH MEETS THE INTENT
2. ALL LOW VOLTAGE WIRES AND ABOVE CEILING CONTROLLERS SHALL BE PLENUM RATED.
3. ALL LOW VOLTAGE WIRES SHALL BE INSTALLED ON J-HOOKS. PROVIDE QUANTITY AS REQUIRED TO SUPPORT EVERY 5'-0".
4. ALL LIGHTING CONTROL BUTTONS SHALL BE CUSTOMIZED, FACTORY PRINTED FOR LOCATION AND/OR OPERATION SUCH AS "ON", "OFF", "DIM", "CLASSROOM", "BOARD", ETC. FIELD PRINTED LABELS ON THE BUTTONS WILL NOT BE ACCEPTABLE.

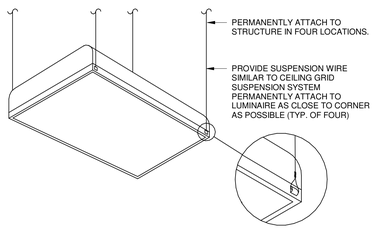


GENERAL NOTE

1. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE #3/0 CU UNLESS OTHERWISE NOTED.
2. BONDING JUMPERS SHALL BE SIZED PER NEC 250.102(C)(1)

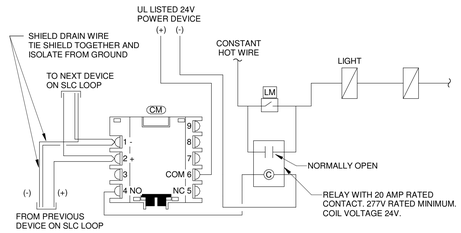
GROUNDING DETAIL

NOT TO SCALE



DETAIL - TYPICAL MOUNTING TROFFER

NOT TO SCALE

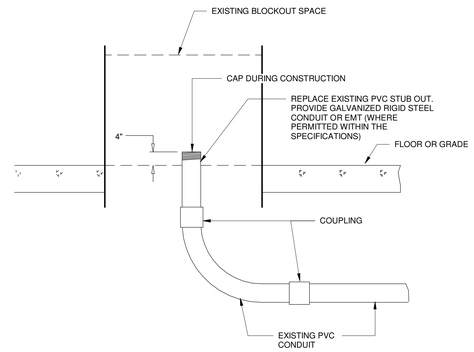


NOTE:

WIRING IS FOR FAILSAFE OPERATION. EMERGENCY LIGHTING SHALL BYPASS TO "ON" AND FULL BRIGHT (NO DIMMING) UPON ACTIVATION OF THE FIRE.

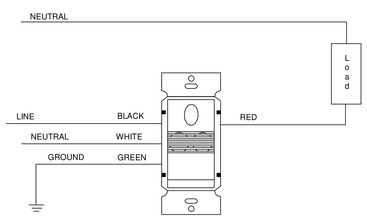
DETAIL - EMERGENCY LIGHT CONTROL RELAY

NOT TO SCALE



CONDUIT FLOOR PENETRATION WITHIN AN EXISTING BLOCKOUT

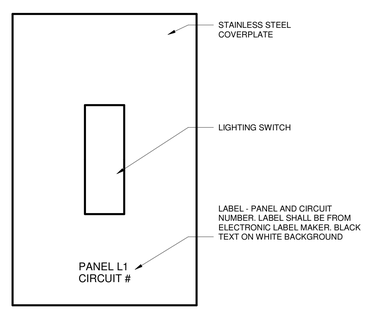
NO SCALE



NOTE:
ALL LIGHTING CONTROL BUTTONS SHALL BE CUSTOMIZED, FACTORY PRINTED FOR LOCATION AND/OR OPERATION SUCH AS "ON", "OFF", "DIM", "CLASSROOM", "BOARD", ETC. FIELD PRINTED LABELS ON THE BUTTONS WILL NOT BE ACCEPTABLE.

DETAIL - OCCUPANCY SENSOR SWITCH

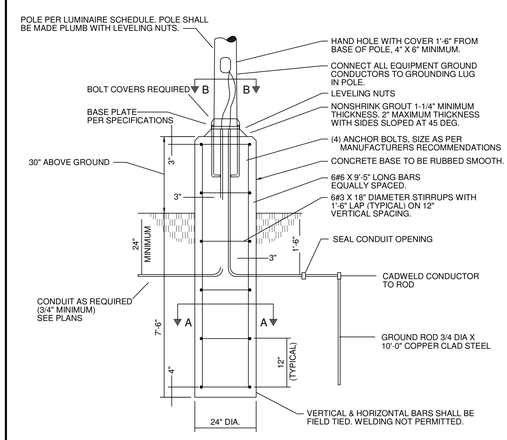
NOT TO SCALE



NOTE:
THIS APPLIES TO ALL LIGHTING SWITCHES (LOW VOLTAGE SWITCHES, INTEGRAL OCCUPANCY SWITCHES, LINE VOLTAGE SWITCHES, ETC.)

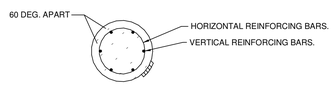
DETAIL - LIGHTING SWITCH FACEPLATE

NOT TO SCALE

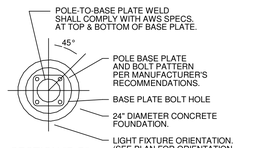


NOTES:

1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS.
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR IN UNDISTURBED OR PROPERLY COMPACTED FILL.
4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE IS LESS.
5. AIR ENTRAINMENT: 4 TO 6%.



SECTION "A-A"



SECTION "B-B"

DETAIL - SECTION THRU POLE BASE

NOT TO SCALE

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Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL DETAILS

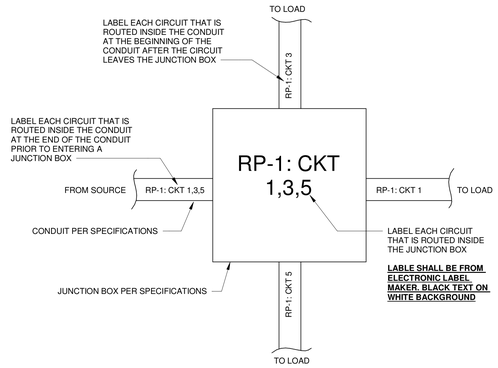
ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 FRED MICHAEL MARQUIN

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

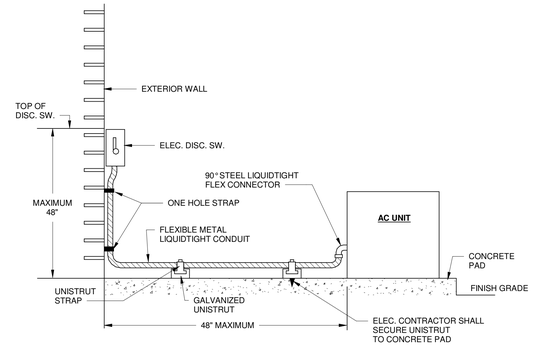
JOB NO. 24-40C

SHEET NO: E0.2

DETAIL - DISCONNECT NAMEPLATE
NOT TO SCALE



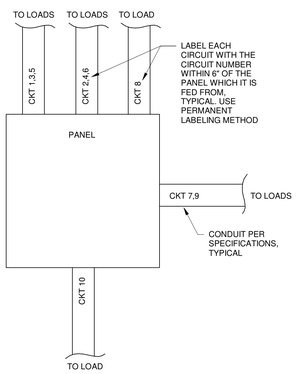
DETAIL - TYPICAL JUNCTION BOX LABELING
NOT TO SCALE



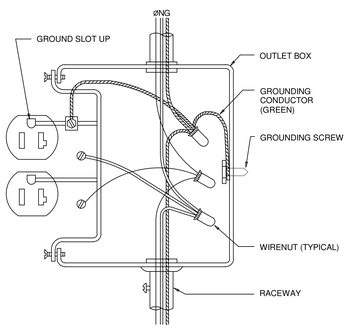
TYP. MECH. UNIT CONNECTION DETAIL

NO SCALE

NOTE:
FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECH UNIT - STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH UNIT WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.

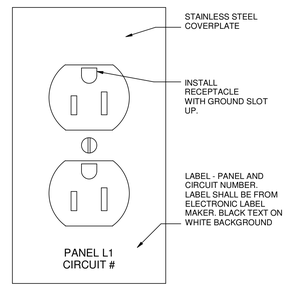


DETAIL - TYPICAL CONDUIT OUT OF PANEL LABELING
NOT TO SCALE



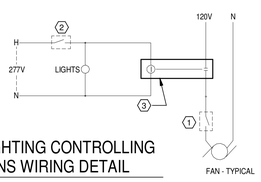
WIRING DIAGRAM

TYPICAL RECEPTACLE INSTALLATION
NO SCALE



DETAIL

DUPLEX RECEPTACLE
NO SCALE

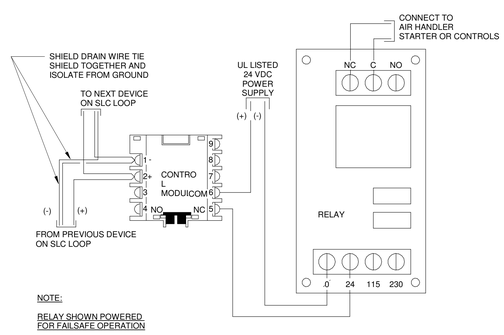


277V LIGHTING CONTROLLING 120V FANS WIRING DETAIL

NOT TO SCALE

KEYNOTES:

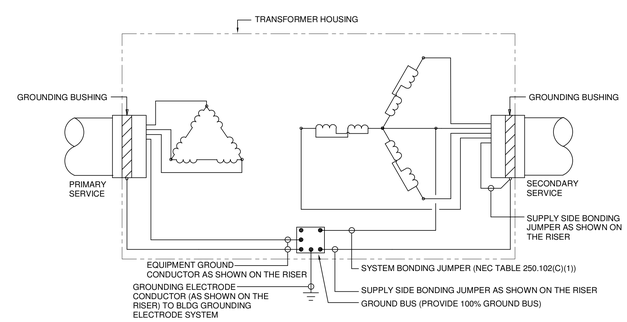
1. LOCAL DISCONNECT PROVIDED WITH EQUIPMENT
2. LOCAL LIGHT SWITCH
3. RELAY, ELECTRICALLY HELD 20A, 277V COIL.



NOTE:
RELAY SHOWN POWERED FOR FAILSAFE OPERATION

AHU SHUT-DOWN

NO SCALE



DETAIL

WIRING DIAGRAM DRY-TYPE TRANSFORMER GROUNDING
NO SCALE

NOTE:
SEE TRANSFORMER SCHEDULE ON E0.5 FOR ALL GEC, SBJ, AND SSBJ SIZES.

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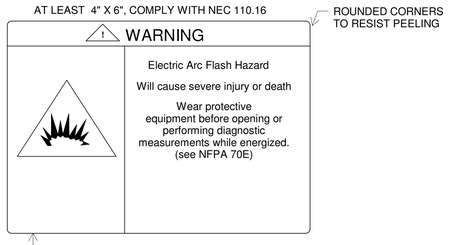
ALABAMA LICENSED No. 51433 PROFESSIONAL ENGINEER 12/19/2025 ANDREW MICHAEL MARGLAN III

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

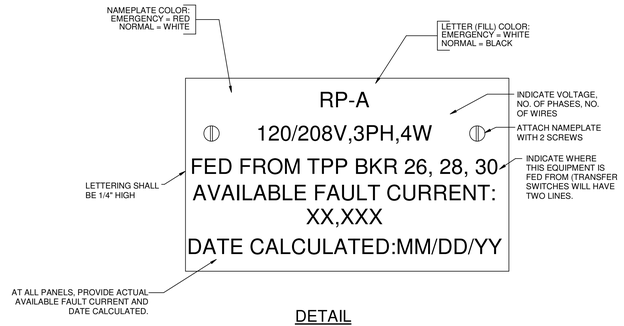
JOB NO. 24-40C
SHEET NO:
E0.3



ARC FLASH HAZARD-LABEL

PROVIDE AT ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS

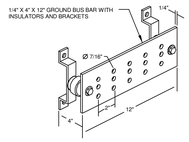
NO SCALE



DETAIL

ELECTRICAL NAMEPLATE

NO SCALE



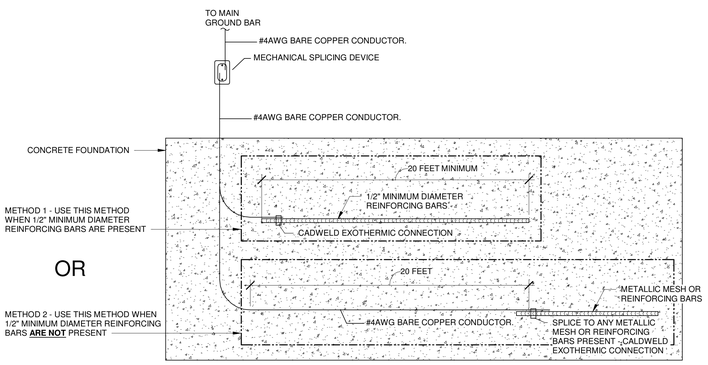
DETAIL

TBB GROUND BAR

NO SCALE

NOTE:

MDF AND IDF GROUND BAR. PROVIDE AT EACH TBB.



GENERAL NOTES:

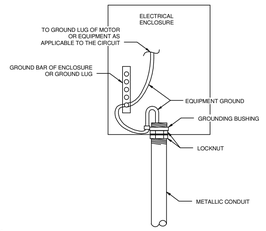
1. SEE NEC 250.52(A)(3)

2. METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 2 IN. OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH.

3. PROVIDE PHOTO DOCUMENTATION OF CONNECTION AT THE TIME OF INSTALLATION.

DETAIL - UFER GROUNDING

NOT TO SCALE



NOTES:

1. CURRENT CARRYING CONDUCTORS NOT SHOWN FOR CLARITY.

2. APPLY THIS INSTALLATION METHOD FOR ALL METALLIC ELECTRICAL EQUIPMENT/ENCLOSURES WHERE A METALLIC CONDUIT IS TERMINATED IN AN ENCLOSURE IN ANY OF THE FOLLOWING CONDITIONS:

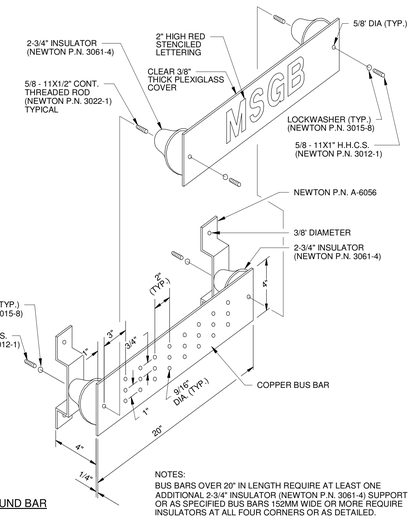
   a. ALL CIRCUITS OVER 250V TO GROUND (REGARDLESS OF AMPACITY SIZE & REGARDLESS OF KNOCKOUT METHOD).
   b. AT ANY LOCATION WHERE A LOOSELY JOINTED METAL RACEWAY IS ENCOUNTERED. EC SHALL MAKE CONNECTION AND REPAIR LOOSE CONNECTION WHERE POSSIBLE.
   c. ALL HAZARDOUS CLASSIFIED LOCATIONS. SEE NEC 250.100.
   d. ALL CIRCUITS NOT LESS THAN 100A (REGARDLESS OF VOLTAGE).

3. ALL FITTINGS, BUSHINGS, RACEWAY, ETC. SHALL BE LISTED.

4. EQUIPMENT GROUND OR GROUNDING ELECTRODE SHALL BE SIZED AS SHOWN ON THE DRAWINGS.

CONDUIT TERMINATION DETAIL

NO SCALE

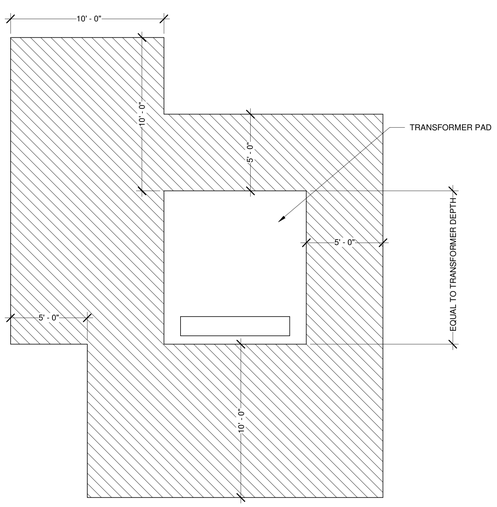


NOTES:
BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2-3/4" INSULATOR (NEWTON P.N. 3061-4) SUPPORT OR AS SPECIFIED BUS BARS 152MM WIDE OR MORE REQUIRE INSULATORS AT ALL FOUR CORNERS OR AS DETAILED.

MAIN STATION GROUND BAR

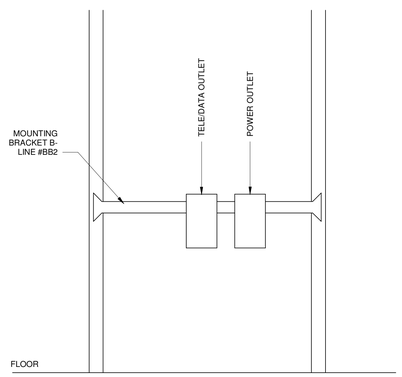
NO SCALE

GHSDC



DETAIL - PAD-MOUNT TRANSFORMER CLEARANCE

NOT TO SCALE



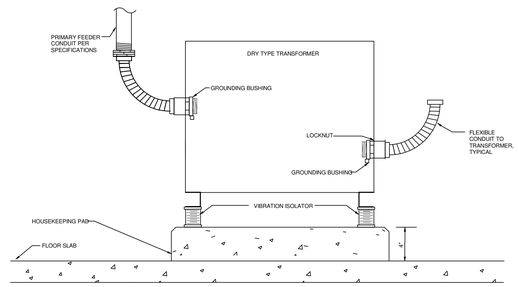
NOTES:

1. PROVIDE NUMBER OF MOUNTING BRACKETS AS REQUIRED TO MOUNT BOTH BOXES AT LOCATIONS SHOWN, REGARDLESS OF STUD SPACING.

2. VERIFY TYPE OF TELEPHONE/DATA PLATE TO PROVIDE. VERIFY WITH OWNER.

DETAIL - TYPICAL OUTLET MOUNTING

NOT TO SCALE



DETAIL

CONDUIT TERMINATION WITH FLEXIBLE CONNECTION TO TRANSFORMER

NO SCALE

Dewberry
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Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL DETAILS

ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 FRED MICHAEL MARQUARDT

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

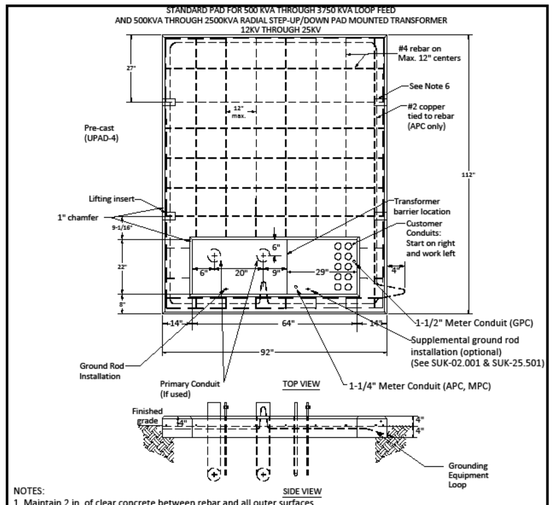
SHEET NO: E0.4

ELECTRICAL SINGLE-LINE KEY NOTES

1. UTILITY METER PER UTILITY SPECIFICATIONS. COORDINATE SPECIFICATIONS AND REQUIREMENTS WITH UTILITY. SEE APCO METER PEDESTAL DETAIL.
2. SEE SERVICE GROUNDING DETAIL.
3. MOUNT SURGE SUPPRESSION INTERNAL TO SWITCHBOARD. LEAD LENGTH NOT TO EXCEED 12 INCHES.
4. PROVIDE ENERGY-REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR FOR ALL BREAKERS 1200 AMPERES OR HIGHER PER NEC 240.87
5. SEE WIRING DIAGRAM DRY-TYPE TRANSFORMER GROUNDING DETAIL. PROVIDE 4" HOUSEKEEPING PAD WITH CHANGFERED EDGES (1"). MOUNT WITH VIBRATION ISOLATORS. SEE CONDUIT TERMINATIONS WITH FLEXIBLE CONNECTION TO TRANSFORMER DETAIL.
6. DISCONNECTING MEANS SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH NEC 110.25, AND THE LOCATION SHALL BE FIELD MARKED ON THE TRANSFORMER.
7. MOUNT SURGE SUPPRESSION ADJACENT (EXTERNAL) TO SWITCHBOARD. LEAD LENGTH NOT TO EXCEED 12 INCHES. ALL SPD'S SHALL BE CONNECTED TO A 60/3 BREAKER. SPD IS OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.
8. EXISTING CONDUITS SEALED AND CAPPED 12" ABOVE GRADE

FEEDER SIZES FOR SINGLE LINE DIAGRAM

3 WIRE FEEDERS SYMBOL	CONDUCTOR & CONDUIT SIZE	4 WIRE FEEDERS SYMBOL	CONDUCTOR & CONDUIT SIZE
60 △	3 #6 & 1 #10 GD.,1 1/4" C.	60 Y	4 #6 & 1 #10 GD.,1 1/4" C.
70 △	3 #4 & 1 #8 GD.,1 1/2" C.	70 Y	4 #4 & 1 #8 GD.,1 1/2" C.
80 △	3 #4 & 1 #8 GD.,1 1/2" C.	80 Y	4 #4 & 1 #8 GD.,1 1/2" C.
90 △	3 #2 & 1 #8 GD.,1 1/2" C.	90 Y	4 #2 & 1 #8 GD., 2" C.
100 △	3 #2 & 1 #8 GD.,1 1/2" C.	100 Y	4 #2 & 1 #8 GD., 2" C.
125 △	3 #1 & 1 #6 GD., 2" C.	125 Y	4 #1 & 1 #6 GD., 2" C.
150 △	3 #1/0 & 1 #6 GD., 2" C.	150 Y	4 #1/0 & 1 #6 GD., 2 1/2" C.
175 △	3 #2/0 & 1 #6 GD., 2 1/2" C.	175 Y	4 #2/0 & 1 #6 GD., 2 1/2" C.
200 △	3 #3/0 & 1 #6 GD., 2 1/2" C.	200 Y	4 #3/0 & 1 #6 GD., 3" C.
225 △	3 #4/0 & 1 #4 GD., 2 1/2" C.	225 Y	4 #4/0 & 1 #4 GD., 3" C.
250 △	3-250 MCM & 1 #4 GD., 3" C.	250 Y	4-250 MCM & 1 #4 GD., 3" C.
300 △	3-350 MCM & 1 #4 GD., 3" C.	300 Y	4-350 MCM & 1 #4 GD., 3 1/2" C.
350 △	3-500 MCM & 1 #2 GD., 3 1/2" C.	350 Y	4-500 MCM & 1 #2 GD., 3 1/2" C.
400 △	2 RUNS, 3 #3/0 & 1 #2(G) GD., 3" C.	400(IG) Y	2 RUN, 4 #3/0, 2 #2 GD/IG., 3" C.
500 △	2 RUNS, EACH WITH 3-250 MCM & 1 #2 GD., 3" C.	400 Y	2 RUNS, 4 #3/0 & 1 #2 GD., 3" C.
		500 Y	2 RUNS, EACH WITH 4-250 MCM & 1 #2 GD., 3" C.
		500(IG) Y	2 RUNS, EACH WITH 4-250 MCM & 2 #1/0 GD/IG., 3 1/2" C.
600 △	2 RUNS, EACH WITH 3-350 MCM & 1 #2 GD., 3" C.	600 Y	2 RUNS, EACH WITH 4-350 MCM & 1 #1 GD., 3 1/2" C.
800 △	2 RUNS, EACH WITH 3-500 MCM & 1 #2 GD., 3 1/2" C.	800 Y	2 RUNS, EACH WITH 4-600 MCM & 1 #1/0 GD., 4" C.
1000 △	3 RUNS, EACH WITH 3-400 MCM & 1 #2/0 GD., 3 1/2" C.	1000 Y	3 RUNS, EACH WITH 4-400 MCM & 1 #2/0 GD., 4" C.
1100 △	3 RUNS, EACH WITH 3-500 MCM & 1 #3/0 GD., 3 1/2" C.	1100 Y	3 RUNS, EACH WITH 4-500 MCM & 1 #3/0 GD., 4" C.
1200 △	4 RUNS, EACH WITH 3-350 MCM & 1 #3/0 GD., 3" C.	1200 Y	4 RUNS, EACH WITH 4-350 MCM & 1 #3/0 GD., 3 1/2" C.
1500 △	4 RUNS, EACH WITH 3-500 MCM & 1 #4/0 GD., 3 1/2" C.	1500 Y	4 RUNS, EACH WITH 4-500 MCM & 1 #4/0 GD., 4" C.
1900 △	5 RUNS, EACH WITH 3-500 MCM & 1-250 MCM GD., 3 1/2" C.	1900 Y	5 RUNS, EACH WITH 4-500 MCM & 1-350 MCM GD., 4" C.

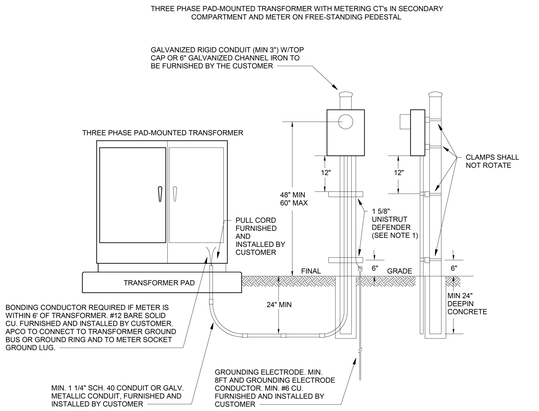


NOTES:
1. Maintain 2 in. of clear concrete between rebar and all outer surfaces.
2. Reinforce with No. 4 rebars with a 12"x 12" grid, 4 in. below top of pad except as shown above.
3. Concrete shall have a minimum ultimate 28 day compressive strength of not less than 3,000 psi, pad shall be cured not less than 72 hours.
4. Average weight of pad is 5,800 pounds.
5. Mounting surface shall be level, smooth and uniform with minimal irregularities.
6. Lifting insert for 1 in. diameter threaded bolt, 4" depth, Meadow Burke FX-14 or equivalent, 4 locations (omit if poured in place).

APPROVED FOR DISTRIBUTION AS NEEDED TO CUSTOMERS OR THEIR AGENTS OF ALABAMA POWER, GEORGIA POWER, OR MISSISSIPPI POWER

SUBJECT	UNDERGROUND DISTRIBUTION
DETAIL	EQUIPMENT PADS AND VAULTS - STANDARD PAD FOR 500KVA THROUGH 3750KVA LOOP FEED AND 500KVA THROUGH 2500KVA RADIAL STEP-UP/DOWN PAD-MOUNTED TRANSFORMER, 12KV THROUGH 25KV
Date 02-26-99	REVISED 09-25-00, 01-26-02, 01-09-07, 12-20-13 03-26-15, 04-05-18, 10-23-18, 01-09-19, 05-09-24 — Southern Company — A- SUH16001

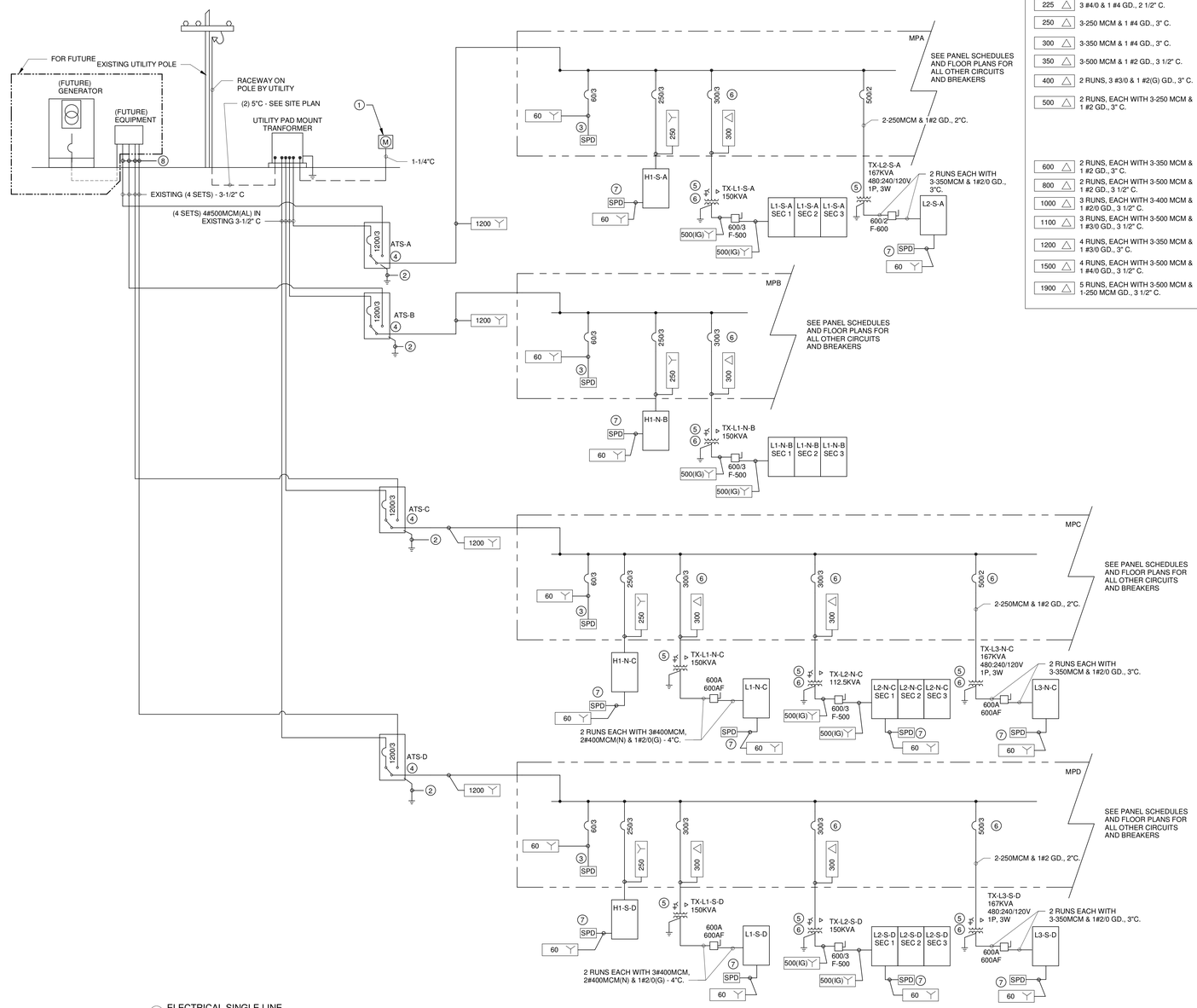
SUH-16.001



CONSULT APCO ENGINEERING FOR MAX ALLOWABLE DISTANCE BETWEEN TRANSFORMER AND METER PEDESTAL

NOTE 1: COMPARABLE PRODUCT TO UNISTRUT DEFENDER IS ACCEPTABLE.

DETAIL - APCO METER PEDESTAL
NOT TO SCALE



1 ELECTRICAL SINGLE LINE
NOT TO SCALE

AUTOMATIC TRANSFER SWITCH SCHEDULE

REMARKS:

1) POWER METER.
2) LOAD SHED
3) ERMS
4) SPD
5) 100% RATED UTILITY CIRCUIT BREAKER
6) FRONT ACCESS SWITCH

ATS NAME	SIZE (AMPS)	TRANSITION	NEUTRAL/POLES	MAINTENANCE BYPASS	BREAKER - LINE SIDE NORMAL POWER	ENCLOSURE	ULSE RATED	WCR (KA)	CABLE ENTRY POSITION NORMAL	EMERGENCY	LOAD	REMARKS
ATS-A	1200	OPEN (DELAY IN NEUTRAL)	SWITCHED / 4	NO	1200/3 - 100%, GFPE	NEMA 1	YES	65k	UNDERGROUND	UNDERGROUND	OVERHEAD	1, 2, 3, 4, 5, 6
ATS-B	1200	OPEN (DELAY IN NEUTRAL)	SWITCHED / 4	NO	1200/3 - 100%, GFPE	NEMA 1	YES	65k	UNDERGROUND	UNDERGROUND	OVERHEAD	1, 2, 3, 4, 5, 6
ATS-C	1200	OPEN (DELAY IN NEUTRAL)	SWITCHED / 4	NO	1200/3 - 100%, GFPE	NEMA 1	YES	65k	UNDERGROUND	UNDERGROUND	OVERHEAD	1, 2, 3, 4, 5, 6
ATS-D	1200	OPEN (DELAY IN NEUTRAL)	SWITCHED / 4	NO	1200/3 - 100%, GFPE	NEMA 1	YES	65k	UNDERGROUND	UNDERGROUND	OVERHEAD	1, 2, 3, 4, 5, 6

NOTE: AUTOMATIC TRANSFER SWITCHES ARE OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.

TRANSFORMER SCHEDULE

MARK	PRIMARY DISTRIBUTION	SECONDARY DISTRIBUTION	KVA	GEC, SSBJ, SBJ	NOTES
TX-L1-S-D	480V DELTA	208V WYE	150	#1/0	K-9 RATED
TX-L1-N-C	480V DELTA	208V WYE	150	#1/0	K-9 RATED
TX-L2-S-D	480V DELTA	208V WYE	150	#1/0	ELECTROSTATIC SHIELD
TX-L2-N-C	480V DELTA	208V WYE	150	#1/0	ELECTROSTATIC SHIELD
TX-L1-S-A	480V DELTA	208V WYE	150	#1/0	ELECTROSTATIC SHIELD
TX-L1-N-B	480V DELTA	208V WYE	150	#1/0	ELECTROSTATIC SHIELD
TX-L3-S-D	480V SINGLE	240V SINGLE	167	#2/0	
TX-L3-N-C	480V SINGLE	240V SINGLE	167	#2/0	
TX-L2-S-A	480V SINGLE	240V SINGLE	167	#2/0	

NOTES:

A. ALL TRANSFORMERS SHALL HAVE CLASS 220 DEGREES C INSULATION SYSTEM.
B. SEE RISER DIAGRAM FOR ADDITIONAL ACCESSORIES, NOTES, AND INSTALLATION DETAILS.
C. TRANSFORMERS ARE OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.

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2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL SINGLE LINE DIAGRAM

ALABAMA LICENSED No. 51603 PROFESSIONAL ENGINEER 12/19/2025 ALFRED MICHAEL MIKOLAJ III

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: E0.5

Panel: H1-N-B **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 250 A **A.I.C. Rating:** 65,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: MPB **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	TU-7-1		Heating	20	3	4000	2000					3	15	Heating		TU-7-2	2
3	--		-	--	--			4000	2000			--	--	-		--	4
5	--		-	--	--					4000	2000	--	--	-		--	6
7	TU-7-3		Heating	15	3	2667	1667					3	15	Heating		TU-7-4	8
9	--		-	--	--			2667	1667			--	--	-		--	10
11	--		-	--	--					2667	1667	--	--	-		--	12
13	TU-7-7		Heating	15	3	1000	1333					3	15	Heating		TU-7-8	14
15	--		-	--	--			1000	1333			--	--	-		--	16
17	--		-	--	--					1000	1333	--	--	-		--	18
19	TU-7-9		Heating	15	3	2833	499					3	15	Motor		EF-4	20
21	--		-	--	--			2833	499			--	--	-		--	22
23	--		-	--	--					2833	499	--	--	-		--	24
25	EF-5		Motor	15	3	582	1000					3	15	Heating		TU-7-5	26
27	--		-	--	--			582	1000			--	--	-		--	28
29	--		-	--	--					582	1000	--	--	-		--	30
31	TU-7-6		Heating	15	3	1000	0					3	60	-		SPD	32
33	--		-	--	--			1000	0			--	--	-		--	34
35	--		-	--	--					1000	0	--	--	-		--	36
37	Spare		-	60	3	0	0					3	60	-		Spare	38
39	--		-	--	--			0	0			--	--	-		--	40
41	--		-	--	--					0	0	--	--	-		--	42
43	Spare		-	20	3	0	0					3	20	-		Spare	44
45	--		-	--	--			0	0			--	--	-		--	46
47	--		-	--	--					0	0	--	--	-		--	48
49	Spare		-	20	3	0	0					3	20	-		Spare	50
51	--		-	--	--			0	0			--	--	-		--	52
53	--		-	--	--					0	0	--	--	-		--	54
	Total Phase Connected Load (VA):					18581		18581		18581							
	Total Phase Connected Current (A):					67		67		67							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	52500 VA	100.00%	52500 VA	**Total Connected Load (VA):**	55742 VA
Motor	3242 VA	113.46%	3679 VA	**Total Demand Load (VA):**	56179 VA
				Total Connected Current (A):	67 A
				Highest Connected Phase Current (A):	67 A
				Total Demand Current (A):	68 A

Notes:

Circuit Notes:

Panel: H1-N-C **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 250 A **A.I.C. Rating:** 65,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: MPC **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare		-	20	3	0	0					3	20	-		Spare	2
3	--		-	--	--			0	0			--	--	-		--	4
5	--		-	--	--					0	0	--	--	-		--	6
7	Spare		-	30	3	0	0					3	30	-		Spare	8
9	--		-	--	--			0	0			--	--	-		--	10
11	--		-	--	--					0	0	--	--	-		--	12
13	Lighting - Offices		Lighting	20	1	1680	465					1	20	Lighting		Lighting - Corridor B116	14
15	Lighting - Kitchn, Copy, Conference		Lighting	20	1			1178	1235			1	20	Lighting		Lighting - Reception & Lobby	16
17	Lighting - Lab B112		Lighting	20	1					1972	1766	1	20	Lighting		Lighting - Lab B105	18
19	Lighting - Classroom B106		Lighting	20	1	1611	2596					1	20	Lighting		Lighting - Classroom B100 & B102	20
21	Lighting - Corridor A124		Lighting	20	1			1670									22
23	Spare		-	20	1					0	432	1	20	Lighting		Lighting - Canopy	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	SPD		-	60	3	0	0					1	20	-		Spare	38
39	--		-	--	--			0	0			1	20	-		Spare	40
41	--		-	--	--					0	0	1	20	-		Spare	42
43	Space		-	--	1	--	--					1	--	-		Space	44
45	Space		-	--	1			--	--			1	--	-		Space	46
47	Space		-	--	1					--	--	1	--	-		Space	48
49	Space		-	--	1	--	--					1	--	-		Space	50
51	Space		-	--	1			--	--			1	--	-		Space	52
53	Space		-	--	1					--	--	1	--	-		Space	54
	Total Phase Connected Load (VA):					6299		4079		4169							
	Total Phase Connected Current (A):					23		15		15							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	14523 VA	125.00%	18154 VA	**Total Connected Load (VA):**	14523 VA
				Total Demand Load (VA):	18154 VA
				Total Connected Current (A):	17 A
				Highest Connected Phase Current (A):	23 A
				Total Demand Current (A):	22 A

Notes:

Circuit Notes:

Panel: MPD **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 1200 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: UTILITY **Wires:** 4 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	TX-L3-S-D		Receptacle, Spare, Power	500	2	25200	0					2	250	-		SPARE	2
3	--		-	--	--			25200	0			--	--	-		--	4
5	H1-S-D		Lighting - Exterior	250	3					10679	13860	3	300	Receptacle, Spare, Power		TX-L2-S-D	6
7	--		-	--	--	5622	19080					--	--	-		--	8
9	--		-	--	--			3809	15180			--	--	-		--	10
11	TX-L1-S-D		Spare, EV Charging	300	3					26624	46536	3	250	EV Charging		LEVEL III EV CHARGER #1	12
13	--		-	--	--	19968	46536					--	--	-		--	14
15	--		-	--	--			19968	46536			--	--	-		--	16
17	SPARE		-	250	3					0	0	3	250	-		SPARE	18
19	--		-	--	--	0	0					--	--	-		--	20
21	--		-	--	--			0	0			--	--	-		--	22
23	SPARE		-	250	3					0	0	3	250	-		SPARE	24
25	--		-	--	--	0	0					--	--	-		--	26
27	--		-	--	--			0	0			--	--	-		--	28
29	SPARE		-	250	3					0	0	3	60	-		SPD	30
31	--		-	--	--	0	0					--	--	-		--	32
33	--		-	--	--			0	0			--	--	-		--	34
35	PREPARED SPACE - NOTE C		-	--	3					--	--	3	--	-		PREPARED SPACE - NOTE C	36
37	--		-	--	--	--	--					--	--	-		--	38
39	--		-	--	--			--	--			--	--	-		--	40
	Total Phase Connected Load (VA):					116405		110686		97699							
	Total Phase Connected Current (A):					427		407		353							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	18421 VA	125.00%	23026 VA	**Total Connected Load (VA):**	324790 VA
Lighting - Exterior	1697 VA	125.00%	2121 VA	**Total Demand Load (VA):**	348258 VA
Power	22320 VA	100.00%	22320 VA	**Total Connected Current (A):**	391 A
Receptacle	76200 VA	56.56%	43100 VA	**Highest Connected Phase Current (A):**	427 A
EV Charging	206168 VA	125.00%	257710 VA	**Total Demand Current (A):**	419 A

Notes:
A. UL LISTED FOR SERVICE ENTRANCE.
B. ELECTRIC POWER METER
C. PROVIDE FULLY PREPARED SPACES TO MAX OUT THE MOUNTING INCHES OF THE PANELBOARD. PROVIDE SQUARE D I-LINE HCP WITH 99" OF BREAKER SPACE (OR EQUAL MANUFACTURER).

Circuit Notes:

Panel: H1-S-A **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 250 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: MPA **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	EF-1		Motor	15	3	2107	2677					1	20	Lighting		Lighting - Classroom A117 & A119	2
3	--		-	--	--			2107	2596			1	20	Lighting		Lighting - Classroom A111 & A113	4
5	--		-	--	--					2107	756	1	20	Lighting		Lighting - Bathroom A108 & A109	6
7	Lighting - Break Room A103		Lighting	20	1	672	5000					3	30	Heating		WH-1	8
9	Spare		-	20	1			0	5000			--	--	-		--	10
11	Spare		-	20	1					0	5000	--	--	-		--	12
13	Spare		-	20	1	0	0					1	20	-		Spare	14
15	Spare		-	20	1			0	0			1	20	-		Spare	16
17	Spare		-	20	1					0	0	1	20	-		Spare	18
19	Spare		-	20	1	0	0					1	20	-		Spare	20
21	Spare		-	20	1			0	0			1	20	-		Spare	22
23	Spare		-	20	1					0	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					3	30	-		Spare	32
33	Spare		-	20	1			0	0			--	--	-		--	34
35	Spare		-	20	1					0	0	--	--	-		--	36
37	Spare		-	30	3	0	0					3	60	-		Spare	38
39	--		-	--	--			0	0			--	--	-		--	40
41	--		-	--	--					0	0	--	--	-		--	42
43	Space		-	--	1	--	--					1	--	-		Space	44
45	Space		-	--	1			--	--			1	--	-		Space	46
47	Space		-	--	1					--	--	1	--	-		Space	48
49	Space		-	--	1	--	--					1	--	-		Space	50
51	Space		-	--	1			--	--			1	--	-		Space	52
53	Space		-	--	1					--	--	1	--	-		Space	54
	Total Phase Connected Load (VA):					10454		9702		7828							
	Total Phase Connected Current (A):					39		36		28							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	15000 VA	100.00%	15000 VA	**Total Connected Load (VA):**	27984 VA
Lighting	6673 VA	125.00%	8341 VA	**Total Demand Load (VA):**	31230 VA
Motor	6320 VA	125.00%	7900 VA	**Total Connected Current (A):**	34 A
				Highest Connected Phase Current (A):	39 A
				Total Demand Current (A):	38 A

Notes:

Circuit Notes:

Panel: MPA **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 1200 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: UTILITY **Wires:** 4 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	H1-S-A		Motor, Heating...	250	3	10454	50924					3	300	HVAC, Motor, Heating...		TX-L1-S-A	2
3	--		-	--	--			9702	45280			--	--	-		--	4
5	--		-	--	--					7828	46480	--	--	-		--	6
7	AC-1		HVAC	150	3	29653	17736					3	100	HVAC		AC-2	8
9	--		-	--	--			29653	17736			--	--	-		--	10
11	--		-	--	--					29653	17736	--	--	-		--	12
13	AC-3		HVAC	100	3	15242	0					3	200	-		SPARE	14
15	--		-	--	--			15242	0			--	--	-		--	16
17	--		-	--	--					15242	0	--	--	-		--	18
19	LEVEL III EV CHARGER #4		EV Charging	250	3	46536	21329					3	150	Motor		AIR COMPRESSOR	20
21	--		-	--	--			46536	21329			--	--	-		--	22
23	--		-	--	--					46536	21329	--	--	-		--	24
25	SPARE		-	250	3	0	0					3	60	-		SPD	26
27	--		-	--	--			0	0			--	--	-		--	28
29	--		-	--	--					0	0	--	--	-		--	30
31	TX-L2-S-A		Receptacle, Spare	500	2	6000	--					3	--	-		PREPARED SPACE - NOTE C	32
33	--		-	--	--			6000	--			--	--	-		--	34
35	PREPARED SPACE - NOTE C		-	--	1					--	--	--	--	-		--	36
	Total Phase Connected Load (VA):					197874		191478		184801							
	Total Phase Connected Current (A):					718		695		667							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	20000 VA	100.00%	20000 VA	**Total Connected Load (VA):**	574153 VA
Lighting	6673 VA	125.00%	8341 VA	**Total Demand Load (VA):**	605757 VA
Motor	71483 VA	122.38%	87480 VA	**Total Connected Current (A):**	691 A
Power	21553 VA	100.00%	21553 VA	**Highest Connected Phase Current (A):**	718 A
Receptacle	51920 VA	59.63%	30960 VA	**Total Demand Current (A):**	729 A
HVAC	262928 VA	100.00%	262928 VA		
EV Charging	139608 VA	125.00%	174510 VA		

Notes:
A. UL LISTED FOR SERVICE ENTRANCE.
B. ELECTRIC POWER METER
C. PROVIDE FULLY PREPARED SPACES TO MAX OUT THE MOUNTING INCHES OF THE PANELBOARD. PROVIDE SQUARE D I-LINE HCP WITH 99" OF BREAKER SPACE (OR EQUAL MANUFACTURER).

Circuit Notes:

Panel: MPB **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 1200 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: UTILITY **Wires:** 4 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	H1-N-B		Motor, Heating...	250	3	18581	48264					3	300	HVAC, Motor, Receptacle...		TX-L1-N-B	2
3	--		-	--	--			18581	37103			--	--	-		--	4
5	--		-	--	--					18581	34419	--	--	-		--	6
7	AC-5		HVAC	60	3	11085	13025					3	100	HVAC		AC-6	8
9	--		-	--	--			11085	13025			--	--	-		--	10
11	--		-	--	--					11085	13025	--	--	-		--	12
13	AC-7		HVAC	100	3	15242	46536					3	250	EV Charging		LEVEL III EV CHARGER #3	14
15	--		-	--	--			15242	46536			--	--	-		--	16
17	--		-	--	--					15242	46536	--	--	-		--	18
19	SURGE SUPPRESSOR		-	60	3	0	15242					3	100	HVAC		AC-4	20
21	--		-	--	--			0	15242			--	--	-		--	22
23	--		-	--	--					0	15242	--	--	-		--	24
25	SPARE		-	250	3	0	0					3	250	-		SPARE	26
27	--		-	--	--			0	0			--	--	-		--	28
29	--		-	--	--					0	0	--	--	-		--	30
31	PREPARED SPACE - NOTE C		-	--	3	--	--					3	--	-		PREPARED SPACE - NOTE C	32
33	--		-	--	--			--	--			--	--	-		--	34
35	--		-	--	--					--	--	--	--	-		--	36
	Total Phase Connected Load (VA):					167975		156814		154130							
	Total Phase Connected Current (A):					608		568		556							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	52500 VA	100.00%	52500 VA	**Total Connected Load (VA):**	478918 VA
Lighting	2468 VA	125.00%	3085 VA	**Total Demand Load (VA):**	499544 VA
Motor	5282 VA	108.26%	5719 VA	**Total Connected Current (A):**	576 A
Power	10020 VA	100.00%	10020 VA	**Highest Connected Phase Current (A):**	608 A
Receptacle	40660 VA	62.30%	25330 VA	**Total Demand Current (A):**	601 A
HVAC	228380 VA	100.00%	228380 VA		
EV Charging	139608 VA	125.00%	174510 VA		

Notes:
A. UL LISTED FOR SERVICE ENTRANCE.
B. ELECTRIC POWER METER
C. PROVIDE FULLY PREPARED SPACES TO MAX OUT THE MOUNTING INCHES OF THE PANELBOARD. PROVIDE SQUARE D I-LINE HCP WITH 99" OF BREAKER SPACE (OR EQUAL MANUFACTURER).

Circuit Notes:

Panel: MPC **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 1200 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: UTILITY **Wires:** 4 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	H1-N-C		Spare, Lighting	250	3	6299	26624					3	300	Spare, EV Charging		TX-L1-N-C	2
3	--		-	--	--			4079	19968			--	--	-		--	4
5	--		-	--	--					4169	19968	--	--	-		--	6
7	TX-L2-N-C		Receptacle, Spare, Power	300	3	14160	15600					2	500	Receptacle, Spare		TX-L3-N-C	8
9	--		-	--	--			15810	15600			--	--	-		--	10
11	--		-	--	--					17090	46536	3	250	EV Charging		LEVEL III EV CHARGER #2	12
13	SPARE		-	250	2	0	46536					--	--	-		--	14
15	--		-	--	--			0	46536			--	--	-		--	16
17	SPARE		-	250	3					0	0	3	250	-		SPARE	18
19	--		-	--	--	0	0					--	--	-		--	20
21	--		-	--	--			0	0			--	--	-		--	22
23	SURGE SUPPRESOR		-	60	3					0	0	3	150	-		SPARE	24
25	--		-	--	--	0	0					--	--	-		--	26
27	--		-	--	--			0	0			--	--	-		--	28
29	PREPARED SPACE - NOTE C		-	--	3					--	--	3	--	-		PREPARED SPACE - NOTE C	30
31	--		-	--	--	--	--					--	--	-		--	32
33	--		-	--	--			--	--			--	--	-		--	34
	Total Phase Connected Load (VA):					109162		101985		87763							
	Total Phase Connected Current (A):					402		376		317							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	14523 VA	125.00%	18154 VA	**Total Connected Load (VA):**	298908 VA
Power	5540 VA	100.00%	5540 VA	**Total Demand Load (VA):**	322711 VA
Receptacle	72720 VA	56.88%	41360 VA	**Total Connected Current (A):**	360 A
EV Charging	206168 VA	125.00%	257710 VA	**Highest Connected Phase Current (A):**	402 A
				Total Demand Current (A):	388 A

Notes:
A. UL LISTED FOR SERVICE ENTRANCE.
B. ELECTRIC POWER METER
C. PROVIDE FULLY PREPARED SPACES TO MAX OUT THE MOUNTING INCHES OF THE PANELBOARD. PROVIDE SQUARE D I-LINE HCP WITH 99" OF BREAKER SPACE (OR EQUAL MANUFACTURER).

Circuit Notes:

PANEL SCHEDULE BLOCK LAYOUT

H1-N-B	MPD	MPA
H1-N-C	H1-S-A	MPB
		MPC

NOTES:
A. PANELBOARDS ARE OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.

B. PROVIDE BREAKERS INTERNAL TO PANELBOARD WHERE SPECIFICALLY NOTED. BREAKERS SHALL BE COMPATIBLE WITH PANEL LISTED. MATCH EXISTING VOLTAGE, MANUFACTURER, TYPE, ETC. PROVIDE AIC RATING EQUAL OR EXCEEDING THE AIC RATING ON THE SCHEDULE.

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
ELECTRICAL - PANEL SCHEDULES

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:
E0.6

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number :
50182832

Panel: L2-N-C **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L2-N-C **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare		1	20	1	0	0					1	20	-	1	Spare	2
3	Spare		1	-	20	1		0	0			1	20	-	1	Spare	4
5	Spare		1	-	20	1				0	0	1	20	-	1	Spare	6
7	Spare		1	-	20	1	0	0				1	20	-	1	Spare	8
9	Spare		1	-	20	1			0	0		1	20	-	1	Spare	10
11	Rec - Lab B105			Receptacle	20	1					720	360	1	20	Receptacle		Rec - Lab B105	12
13	Rec - Tool Room B104			Receptacle	20	1	180	720					1	20	Receptacle		Rec - Lab B105	14
15	Rec - Lab B105			Receptacle	20	1			180	180			1	20	Receptacle		Rec - Lab B105	16
17	Rec - Lab B105			Receptacle	20	1					1080	180	1	20	Receptacle		Rec - Lab B105	18
19	Rec - Lab B105			Receptacle	20	1	180	180					1	20	Receptacle		Rec - Lab B105	20
21	Rec - Lab B105			Receptacle	20	1			180	180			1	20	Receptacle		Rec - Lab B105	22
23	Rec - Lab B105			Receptacle	20	1					180	1080	1	20	Receptacle		Rec - Lab B105	24
25	Rec - Lab B105			Receptacle	20	1	180	720					1	20	Receptacle		Rec - Lab B105	26
27	Rec - Lab B105			Receptacle	20	1			180	720			1	20	Receptacle		Rec - Lab B105	28
29	Garage Power - EV Lab B105			Power	35	1					1920	1920	1	35	Power		Garage Power - EV Lab B105	30
31	Rec - Mech units			Receptacle	20	1	540	720					1	20	Receptacle		Rec - TV EV Lab B105	32
33	Rec - TV EV Lab B105			Receptacle	20	1			720	360			1	20	Receptacle		Rec Ceiling - Lab B113	34
35	Rec - Lab B112			Receptacle	20	1					540	900	1	20	Receptacle		Rec - Lab B113	36
37	Rec - Tool Room B110			Receptacle	20	1	360	900					1	20	Receptacle		Rec - Office B108	38
39	Rec - Tool Room B110			Receptacle	20	1			360	900			1	20	Receptacle		Rec - Office B109	40
41	Rec - Tool Room B110			Receptacle	20	1					360	180	1	20	Receptacle		Rec - Mechanical 134	42
43	Rec - IDF B111			Receptacle	20	1	180	1080					1	20	Receptacle		Rec - Lab B113	44
45	Rec - Lab B113			Receptacle	20	1			180	720			1	20	Receptacle		Rec - Lab B113	46
47	Rec - Tool Room B104			Receptacle	20	1					540	180	1	20	Receptacle		Rec - Lab B113	48
49	Rec - Lab B113			Receptacle	20	1	360	180					1	20	Receptacle		Rec - Lab B113	50
51	Rec - Lab B113			Receptacle	20	1			720	360			1	20	Receptacle		Rec - Tool Room B104	52
53	Rec - Lab B113			Receptacle	20	1					180	360	1	20	Receptacle		Rec - Lab B113	54
55	Rec - Lab B113			Receptacle	20	1	360	360					1	20	Receptacle		Rec - Lab B113	56
57	Rec - Tool Room B103			Receptacle	20	1			540	960			1	20	Receptacle		Rec - Lab B113	58
59	Rec - Lab B113			Receptacle	20	1					360	360	1	20	Receptacle		Rec - Lab B113	60
61	Rec - Tool Room B103			Receptacle	20	1	360	960					1	20	Receptacle		Rec - Lab B113	62
63	Rec - Lab B113			Receptacle	20	1			360	360			1	20	Receptacle		Rec - Lab B113	64
65	Rec - Lab B113			Receptacle	20	1					960	180	1	20	Receptacle		Rec - Tool Room B103	66
67	Rec - Lab B113			Receptacle	20	1	360	360					1	20	Receptacle		Rec - Lab B113	68
69	Rec - Lab B113			Receptacle	20	1			960	1080			1	20	Receptacle		Rec Ceiling - Lab B113	70
71	Spare		-	20	1						0	360	1	20	Receptacle		Rec - Lab B113	72
73	Spare		-	20	1	0	180						1	20	Receptacle		Rec - Lab B113	74
75	Rec - Lab B113			Receptacle	20	1			720	180			1	20	Receptacle		Rec - Lab B113	76
77	Rec - Lab B113			Receptacle	20	1					360	180	1	20	Receptacle		Rec - Lab B113	78
79	Spare		-	20	1	0	720						1	20	Receptacle		Rec - Lab B113	80
81	Rec - Lab B113			Receptacle	20	1			180	360			1	20	Receptacle		Rec - Lab B113	82
83	Rec - Lab B113			Receptacle	20	1					180	720	1	20	Receptacle		Rec - IDF B111	84
85	Rec - IDF B111			Receptacle	20	1	720	720					1	20	Receptacle		Rec - IDF B111	86
87	Rec - IDF B111			Receptacle	20	1			720	720			1	20	Receptacle		Rec - IDF B111	88
89	Rec - IDF B111 Rack			Receptacle	20	1					360	0	1	20	Receptacle		Spare	90
91	Rec Ceiling - Lab B113			Receptacle	20	1	1080	1000					1	20	Power		HVAC	92
93	Rec - Lab B105			Receptacle	20	1			720	720			1	20	Receptacle		Rec - Lab B105	94
95	HVAC Controls Mech B112			Power	20	1					200	720	1	20	Receptacle		Rec - Lab B113	96
97	Automatic Damper B112			Power	20	1	500	0					1	20	-		Spare	98
99	Spare		-	20	1			0	540				1	20	Receptacle		Rec Connectivity	100
101	Rec - EV Lab			Receptacle	20	1					720	0	1	20	-		Spare	102
103	Spare		-	20	1	0	0						3	60	-		SPD	104
105	Rec - IDF B111 Rack			Receptacle	30	2			750	0			--	--	-		--	106
107	--		-	--	--						750	0	--	--	-		--	108
109	Spare		-	20	1	0	0						1	20	-		Spare	110
111	Spare		-	100	2			0	0				1	20	-		Spare	112
113	--		-	--	--						0	0	1	20	-		Spare	114
115	Spare		-	100	2	0	0						1	20	-		Spare	116
117	--		-	--	--			0	0				1	20	-		Spare	118
119	Space		-	--	1						--	0	1	20	-		Spare	120
121	Space		-	--	1	--	0						1	20	-		Spare	122
123	Space		-	--	1			--	0				1	20	-		Spare	124
125	Space		-	--	1						--	0	1	20	-		Spare	126
127	Space		-	--	1	--	0						1	20	-		Spare	128
129	Space		-	--	1			--	0				1	20	-		Spare	130
131	Space		-	--	1						--	0	1	20	-		Spare	132
133	Space		-	--	1	--	0						1	20	-		Spare	134
135	Space		-	--	1			--	0				1	20	-		Spare	136
137	Space		-	--	1						--	0	1	20	-		Spare	138
139	Space		-	--	1	--	0						1	20	-		Spare	140
141	Space		-	--	1			--	0				1	20	-		Spare	142
143	Space		-	--	1						--	0	1	20	-		Spare	144
145	Space		-	--	1	--	0						1	20	-		Spare	146
147	Space		-	--	1			--	0				1	20	-		Spare	148
149	Space		-	--	1						--	0	1	20	-		Spare	150
151	Space		-	--	1	--	0						1	20	-		Spare	152
153	Space		-	--	1			--	0				1	20	-		Spare	154
155	Space		-	--	1						--	0	1	20	-		Spare	156
157	Space		-	--	1	--	0						1	20	-		Spare	158
159	Space		-	--	1			--	0				1	20	-	2	Spare	160
161	Space		-	--	1						--	0	1	20	-	2	Spare	162
	Total Phase Connected Load (VA):					14160		15810		17090								
	Total Phase Connected Current (A):					118		134		145								

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Power	5540 VA	100.00%	5540 VA	**Total Connected Load (VA):**	47060 VA
Receptacle	41520 VA	62.04%	25760 VA	**Total Demand Load (VA):**	31300 VA
				Total Connected Current (A):	131 A
				Highest Connected Phase Current (A):	145 A
				Total Demand Current (A):	87 A

Notes:
A. PROVIDE 3 EQUAL SECTIONS
B. PROVIDE ISOLATED GROUND BUS

Circuit Notes:
1. GFCI BREAKER
2. GFPE BREAKER

Panel: L1-N-B **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L1-N-B **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare		-	60	3	0	4227					2	70	HVAC		IHP-6	2
3	--		-	--	--			0	4227			--	--	-		--	4
5	--		-	--	--					0	4227	2	70	HVAC		IHP-7	6
7	IHP-8		HVAC	70	2	4227	4227					--	--	-		--	8
9	--		-	--	--			4227	2413			2	40	HVAC		OHP-6	10
11	OHP-7		HVAC	40	2					2413	2413	--	--	-		--	12
13	--		-	--	--	2413	2413					2	40	HVAC		OHP-8	14
15	EF-3		Motor	15	1			864	2413			--	--	-		--	16
17	DH-5		HVAC	15	1					612	612	1	15	HVAC		DH-6	18
19	DH-7		HVAC	15	1	612	2413					2	40	HVAC		MS-IDF	20
21	MS-ELEC-2		HVAC	40	2			2413	2413			--	--	-		--	22
23	--		-	--	--					2413	2413	2	40	HVAC		OHP-9	24
25	Spare		-	20	2	0	2413					--	--	-		--	26
27	--		-	--	--			0	0			2	30	-		Spare	28
29	Spare		-	30	2					0	0	--	--	-		--	30
31	--		-	--	--	0	0					2	45	-		Spare	32
33	Spare		-	45	2			0	0			--	--	-		--	34
35	--		-	--	--					0	4227	2	60	HVAC		IHP-9	36
37	OAF-1		Motor	20	1	1176	4227					--	--	-		--	38
39	Rec - Classroom B100		Receptacle	20	1			1440	720			1	20	Receptacle		Rec - Classroom B100	40
41	Floor Rec - Classroom B100		Receptacle	20	1					1080	720	1	20	Receptacle		Floor Rec - Classroom B100	42
43	Rec - Classroom B102		Receptacle	20	1	1440	720					1	20	Receptacle		Rec - Classroom B102	44
45	Floor Rec - Classroom B102		Receptacle	20	1			1080	1440			1	20	Receptacle		Rec - Classroom B106	46
47	Rec - Classroom B106		Receptacle	20	1					720	720	1	20	Receptacle		Rec - Corridor B112	48
49	Rec - Lobby B115		Receptacle	20	1	360	900					1	20	Receptacle		Rec - Lobby B115	50
51	Rec - Lobby B115		Receptacle	20	1			360	500			1	20	Receptacle		AV Amplifier Conference Rm B133	52
53	Rec - Reception B115		Receptacle	20	1					720	1080	1	20	Receptacle		Rec - Office B118	54
55	Rec - Conference B133		Receptacle	20	1	900	1080					1	20	Receptacle		Rec - Office B119	56
57	Rec - Conference B133		Receptacle	20	1			1080	1080			1	20	Receptacle		Rec - Office B120	58
59	Rec - Corridor		Receptacle	20	1					360	540	1	20	Receptacle		Rec - Conference B133	60
61	Rec - Office B124		Receptacle	20	1	1080	360					1	20	Receptacle		Rec - Conference B133	62
63	Rec - Tlt B125 Sink & Elec B130		Receptacle, Power	20	1			660	720			1	20	Receptacle		Rec - Conference B133	64
65	Rec - Office Supplies B132		Receptacle	20	1					540	1080	1	20	Receptacle		Rec - Office B121	66
67	Rec - Office B126		Receptacle	20	1	1080	1080					1	20	Receptacle		Rec - Office B122	68
69	Rec - Office B129		Receptacle	20	1			1080	1080			1	20	Receptacle		Rec - Office B123	70
71	Rec - Office B128		Receptacle	20	1					1080	540	1	20	Receptacle		Rec - Kitchenette B131	72
73	Rec - Office B127		Receptacle	20	1	1080	540					1	20	Receptacle		Rec - Office Supplies B132	74
75	Pwr - Classrm shades B100 & B106		Power	20	1			1000	720			1	20	Receptacle		Rec - Office B126	76
77	Rec - Kitchenette B131	1	Power	20	1					1200	180	1	20	Receptacle	1	Rec - Copier B132	78
79	Rec - Ref. B131	1	Power	20	1	1200	1200					1	20	Power	1	Rec - Ice B131	80
81	Spare	1	-	20	1			0	0			1	20	-	1	Spare	82
83	Spare	1	-	20	1					0	0	1	20	-	1	Spare	84
85	Power - Shades Corridor B113		Power	20	1	1500	900					1	20	Receptacle		Rec - Office B129	86
87	Power - Led Screens		Power	20	1			1000	720			1	20	Receptacle		Rec - Office B128	88
89	Rec - Office B127		Receptacle	20	1					720	720	1	20	Receptacle		Floor Rec - Classroom B102	90
91	Floor Rec - Classroom B106		Receptacle	20	1	1080	720					1	20	Receptacle		Floor Rec - Classroom B106	92
93	Rec - Lobby B115		Receptacle	20	1			360	360			1	20	Receptacle		Rec - Lobby B115	94
95	Lighting - Signage Lobby B115		Receptacle, Lighting	20	1					532	900	1	20	Receptacle		Rec - Reception B115	96
97	Lighting - Signage		Lighting	20	1	1200	800					1	20	Power		Rec - Ref. Classroom B100	98
99	Lighting - Signage		Lighting	20	1			1236	800			1	20	Power		Rec - Ref. Classroom B106	100
101	Rec - Ref. Classroom B102		Power	20	1					800	500	1	20	Receptacle		AV Amplifier Classroom B100	102
103	HVAC Controls Mech B107		Power	20	1	200	0					3	60	-		SPD	104
105	HVAC Controls Mech B101		Power	20	1			200	0			--	--	-		--	106
107	Rec - Lobby B115		Receptacle	20	1					360	0	--	--	-		--	108
109	Space		-	--	1	--	500					1	20	Receptacle		AV Amplifier Classroom B102	110
111	Space		-	--	1			--	500			1	20	Receptacle		AV Amplifier Classroom B106	112
113	Space		-	--	1					--	0	1	20	-		Spare	114
115	Space		-	--	1	--	0					1	20	-		Spare	116
117	Space		-	--	1			--	0			1	20	-		Spare	118
119	Space		-	--	1					--	0	1	20	-		Spare	120
121	Space		-	--	1	--	0					1	20	-		Spare	122
123	Space		-	--	1			--	0			1	20	-		Spare	124
125	Space		-	--	1					--	0	1	20	-		Spare	126
127	Space		-	--	1	--	0					1	20	-		Spare	128
129	Space		-	--	1			--	0			1	20	-		Spare	130
131	Space		-	--	1					--	0	1	20	-		Spare	132
133	Space		-	--	1	--	0					1	20	-		Spare	134
135	Space		-	--	1			--	0			1	20	-		Spare	136
137	Space		-	--	1					--	0	1	20	-		Spare	138
139	Space		-	--	1	--	0					1	20	-		Spare	140
141	Space		-	--	1			--	0			1	20	-		Spare	142
143	Space		-	--	1					--	0	1	20	-		Spare	144
145	Space		-	--	1	--	0					1	20	-		Spare	146
147	Space		-	--	1			--	0			1	20	-		Spare	148
149	Space		-	--	1					--	0	1	20	-		Spare	150
151	Space		-	--	1	--	0					1	20	-		Spare	152
153	Space		-	--	1			--	0			1	20	-		Spare	154
155	Space		-	--	1					--	0	1	20	-		Spare	156
157	Space		-	--	1	--	0					1	20	-		Spare	158
159	Space		-	--	1			--	0			1	20	-	2	Spare	160
161	Space		-	--	1					--	0	1	20	-	2	Spare	162
	Total Phase Connected Load (VA):					48264		37103		34419							
	Total Phase Connected Current (A):					406		313		287							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	2468 VA	125.00%	3085 VA	**Total Connected Load (VA):**	119786 VA
Motor	2040 VA	114.41%	2334 VA	**Total Demand Load (VA):**	105367 VA
Power	10020 VA	100.00%	10020 VA	**Total Connected Current (A):**	332 A
Receptacle	40660 VA	62.30%	25330 VA	**Highest Connected Phase Current (A):**	406 A
HVAC	64598 VA	100.00%	64598 VA	**Total Demand Current (A):**	292 A

Notes:
A. PROVIDE 3 EQUAL SECTIONS
B. PROVIDE WITH ISOLATED GROUND BUS

Circuit Notes:
1. GFCI BREAKER
2. GFPE BREAKER

Panel: L1-S-A **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L1-S-A **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare		-	100	3	0	4227					2	70	HVAC		IHP-2	2
3	--		-	--	--			0	4227			--	--	-		--	4
5	--		-	--	--					0	4227	2	70	HVAC		IHP-3	6
7	IHP-4		HVAC	70	2	4227	4227					--	--	-		--	8
9	--		-	--	--			4227	4227			2	70	HVAC		IHP-5	10
11	OHP-2		HVAC	40	2					2413	4227	--	--	-		--	12
13	--		-	--	--	2413	2413					2	40	HVAC		OHP-3	14
15	OHP-4		HVAC	40	2			2413	2413			--	--	-		--	16
17	--		-	--	--					2413	2413	2	40	HVAC		OHP-5	18
19	EF-2		Motor	20	1	1176	2413					--	--	-		--	20
21	Rec - Mech A112		HVAC	15	1			612	612			1	15	HVAC		Rec - Mech A118	22
23	Rec - Mech A118		HVAC	15	1					612	612	1	15	HVAC		Rec - Mech A118	24
25	MS-MDF		HVAC	40	2	2413	2413					2	40	HVAC		MS-ELEC-1	26
27	--		-	--	--			2413	2413			--	--	-		--	28
29	OHP-1		HVAC	40	2					2413	540	1	20	Receptacle		Rec - Bus Bay A101	30
31	--		-	--	--	2413	360					1	20	Receptacle		Rec - Bus Bay A101	32
33	Spare		-	30	2			0	0			2	30	-		Spare	34
35	--		-	--	--					0	0	--	--	-		--	36
37	Spare		-	45	2	0	0					2	45	-		Spare	38
39	--		-	--	--			0	0			--	--	-		--	40
41	IHP-1		Power	70	2					4227	0	2	60	-		Spare	42
43	--		-	--	--	4227	0					--	--	-		--	44
45	EWH-A		Heating	20	3			1667	1200			1	20	Receptacle		Rec - Break Room A103	46
47	--		-	--	--					1667	540	1	20	Receptacle	1	Rec - Break Room A103	48
49	--		-	--	--	1667	540					1	20	Receptacle		Rec - Janitor A104 & Corridor A124	50
51	Rec - Restroom A108 & A109		Receptacle	20	1			360	900			1	20	Receptacle		Rec - Corridor A124	52
53	Rec - Classroom A111		Receptacle	20	1					720	1440	1	20	Receptacle		Rec - Classroom A111	54
55	Rec - Mech A112		Receptacle	20	1	180	720					1	20	Receptacle		Rec - Lab A116	56
57	Rec - Classroom A113		Receptacle	20	1			720	180			1	20	Receptacle		Rec - Tool Room A115	58
59	Pwr - Classrm shades A111 & A117		Power	20	1					500	1440	1	20	Receptacle		Rec - Classroom A113	60
61	Auto Flush/Sinks A109		Power	20	1	720	720					1	20	Power		Auto Flush/Sinks A108	62
63	Floor Rec - Classroom A111		Receptacle	20	1			1080	960			1	20	Power		Auto Sinks A108, A109	64
65	Floor Rec - Classroom A113		Receptacle	20	1					1080	720	1	20	Receptacle		Floor Rec - Classroom A111	66
67	Floor Rec - Classroom A117		Receptacle	20	1	1080	720					1	20	Receptacle		Floor Rec - Classroom A113	68
69	Rec - Ceiling Bus Bay A101		Receptacle	20	1			1080	720			1	20	Receptacle		Floor Rec - Classroom A117	70
71	SPD		-	60	3					0	1080	1	20	Receptacle		Floor Rec - Classroom A119	72
73	--		-	--	--	0	720					1	20	Receptacle		Floor Rec - Classroom A119	74
75	--		-	--	--			0	1440			1	20	Receptacle		Rec - Ceiling Bus Bay A101	76
77	Rec - Ref. Break Room A103	1	Power	20	1					1200	1200	1	20	Power	1	Rec - Ice Break Room A103	78
79	Rec - EWC Corridor A124	1	Receptacle	20	1	360	360					1	20	Receptacle	1	Rec - EWC Corridor A124	80
81	Rec - Solar Lab A116	1	Receptacle	20	1			720	720			1	20	Receptacle	1	Rec - Solar Lab A116	82
83	Rec - Janitor A104	1	Receptacle	20	1					180	500	1	20	Power	2	Heat Trace - Compressed Air	84
85	Rec - Cond. Pump A106 & A107		Receptacle	20	1	900	1080					1	20	Receptacle		Rec - Ceiling Stor. Area A110	86
87	Rec - Ceiling Stor. Area A110		Receptacle	20	1			1080	1080			1	20	Receptacle		Rec - Ceiling Stor. Area A110	88
89	Rec - Ceiling Stor. Area A110		Receptacle	20	1					1080	1080	1	20	Receptacle		Rec - Ceiling Bus Bay A101	90
91	Rec - Solar Lab A116		Receptacle	20	1	540	540					1	20	Receptacle		Rec - Tool Room A115	92
93	Rec - Tool Room A115		Receptacle	20	1			360	540			1	20	Receptacle		Rec - Tool Room A114	94
95	Rec - Tool Room A114		Receptacle	20	1					360	180	1	20	Receptacle		Rec - Tool Room A114	96
97	Rec - Mech A118		Receptacle	20	1	180	180					1	20	Receptacle		Rec - Outdoor	98
99	Heat Trace	2	Power	20	1			500	800			1	20	Power		Rec - Ref. Classroom A111	100
101	Rec - Ref. Classroom A113		Power	20	1					800	800	1	20	Power		Rec - Ref. Classroom A117	102
103	Rec - Ref. Classroom A119		Power	20	1	800	1080					1	20	Receptacle		Rec - Break Room A103	104
105	HVAC		Power	20	1			500	1000			1	20	Power		HVAC	106
107	AD-1 Controls		Power	20	1					500	500	1	20	Power		AC-1 Controls	108
109	Rec - Classroom A119		Receptacle	20	1	1440	500					1	20	Receptacle		AV Amplifier Classroom A113	110
111	Rec - Classroom A117		Receptacle	20	1			720	500			1	20	Receptacle		AV Amplifier Classroom A111	112
113	Rec - Classroom A119		Receptacle	20	1					720	500	1	20	Receptacle		AV Amplifier Classroom A117	114
115	AV Amplifier Classroom A119		Receptacle	20	1	500	1440				

Panel: L1-N-C **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: CORRIDOR **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L1-N-C **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	EV CHARGER #1		EV Charging	100	2	6656	6656					2	100	EV Charging		EV CHARGER #2	2
3	--		--	--	--			6656	6656			--	--	--		--	4
5	EV CHARGER #3		EV Charging	100	2					6656	6656	2	100	EV Charging		EV CHARGER #4	6
7	--		--	--	--	6656	6656					--	--	--		--	8
9	EV CHARGER #5		EV Charging	100	2			6656	0			2	100	--		Spare	10
11	--		--	--	--					6656	0	--	--	--		--	12
13	Spare		--	100	2	0	0					2	100	--		Spare	14
15	--		--	--	--			0	0			--	--	--		--	16
17	Spare		--	100	2					0	0	2	100	--		Spare	18
19	--		--	--	--	0	0					--	--	--		--	20
21	Spare		--	50	2			0	0			2	50	--		Spare	22
23	--		--	--	--					0	0	--	--	--		--	24
25	Spare		--	50	2	0	0					2	50	--		Spare	26
27	--		--	--	--			0	0			--	--	--		--	28
29	Spare		--	50	2					0	0	2	50	--		Spare	30
31	--		--	--	--	0	0					--	--	--		--	32
33	Spare		--	20	1			0	0			1	20	--		Spare	34
35	Spare		--	20	1					0	0	1	20	--		Spare	36
37	SPD		--	60	3	0	0					1	20	--		Spare	38
39	--		--	--	--			0	0			1	20	--		Spare	40
41	--		--	--	--					0	0	1	20	--		Spare	42
43	Space		--	--	1	--	--					1	--	--		Space	44
45	Space		--	--	1			--	--			1	--	--		Space	46
47	Space		--	--	1					--	--	1	--	--		Space	48
49	Space		--	--	1	--	--					1	--	--		Space	50
51	Space		--	--	1			--	--			1	--	--		Space	52
53	Space		--	--	1					--	--	1	--	--		Space	54
					Total Phase Connected Load (VA):	26624		19968		19968							
					Total Phase Connected Current (A):	222		166		166							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
EV Charging	66560 VA	125.00%	83200 VA	**Total Connected Load (VA):**	66560 VA
				Total Demand Load (VA):	83200 VA
				Total Connected Current (A):	185 A
				Highest Connected Phase Current (A):	222 A
				Total Demand Current (A):	231 A

Notes:
A. PROVIDE 200% RATED NEUTRAL BUS. PROVIDE WITH DOUBLE LUGS FOR NEUTRAL CONNECTION.

Circuit Notes:

Panel: L1-S-D **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: CORRIDOR **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L1-S-D **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	EV CHARGER #1		EV Charging	100	2	6656	6656					2	100	EV Charging		EV CHARGER #2	2
3	--		--	--	--			6656	6656			--	--	--		--	4
5	EV CHARGER #3		EV Charging	100	2					6656	6656	2	100	EV Charging		EV CHARGER #4	6
7	--		--	--	--	6656	6656					--	--	--		--	8
9	EV CHARGER #5		EV Charging	100	2			6656	0			2	100	--		Spare	10
11	--		--	--	--					6656	0	--	--	--		--	12
13	Spare		--	100	2	0	0					2	100	--		Spare	14
15	--		--	--	--			0	0			--	--	--		--	16
17	Spare		--	100	2					0	0	2	50	--		Spare	18
19	--		--	--	--	0	0					--	--	--		--	20
21	Spare		--	50	2			0	0			2	50	--		Spare	22
23	--		--	--	--					0	0	--	--	--		--	24
25	Spare		--	50	2	0	0					2	50	--		Spare	26
27	--		--	--	--			0	0			--	--	--		--	28
29	Spare		--	50	2					0	0	2	50	--		Spare	30
31	--		--	--	--	0	0					--	--	--		--	32
33	Spare		--	20	1			0	0			1	20	--		Spare	34
35	Spare		--	20	1					0	0	1	20	--		Spare	36
37	SPD		--	60	3	0	0					1	20	--		Spare	38
39	--		--	--	--			0	0			1	20	--		Spare	40
41	--		--	--	--					0	0	1	20	--		Spare	42
43	Space		--	--	1	--	--					1	--	--		Space	44
45	Space		--	--	1			--	--			1	--	--		Space	46
47	Space		--	--	1					--	--	1	--	--		Space	48
49	SPD		--	60	3	0	--					1	--	--		Space	50
51	--		--	--	--			0	--			1	--	--		Space	52
53	--		--	--	--					0	--	1	--	--		Space	54
					Total Phase Connected Load (VA):	26624		19968		19968							
					Total Phase Connected Current (A):	222		166		166							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
EV Charging	66560 VA	125.00%	83200 VA	**Total Connected Load (VA):**	66560 VA
				Total Demand Load (VA):	83200 VA
				Total Connected Current (A):	185 A
				Highest Connected Phase Current (A):	222 A
				Total Demand Current (A):	231 A

Notes:
A. PROVIDE 200% RATED NEUTRAL BUS. PROVIDE WITH DOUBLE LUGS FOR NEUTRAL CONNECTION.

Circuit Notes:

Panel: L3-S-D **Enclosure:** NEMA 1 **Volts:** 120/240 Single **Bus Rating:** 600 A **A.I.C. Rating:** 42,000 A
Location: SOLAR LAB **Mounting:** SURFACE **Phases:** 1 **Main Device Type:** MLO
Fed From: TX-L3-S-D **Wires:** 3 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare		--	50	2	0	0			2	50	--		Spare	2
3	--		--	--	--			0	0	--	--	--		--	4
5	Power - Solar Lab A116		Power	60	2	1200	1200			2	60	Power		Power - Solar Lab A116	6
7	--		--	--	--			1200	1200	--	--	--		--	8
9	Power - Solar Lab A116		Power	60	2	1200	1200			2	60	Power		Power - Solar Lab A116	10
11	--		--	--	--			1200	1200	--	--	--		--	12
13	Rec - Classroom A111		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Classroom A113	14
15	--		--	--	--			1200	1200	--	--	--		--	16
17	Rec - Classroom A117		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	18
19	--		--	--	--			1200	1200	--	--	--		--	20
21	Rec - Lab A123		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	22
23	--		--	--	--			1200	1200	--	--	--		--	24
25	Rec - Tool Room A121		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	26
27	--		--	--	--			1200	1200	--	--	--		--	28
29	Rec - Lab A123		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	30
31	--		--	--	--			1200	1200	--	--	--		--	32
33	Rec - Lab A123		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	34
35	--		--	--	--			1200	1200	--	--	--		--	36
37	Rec - Lab A123		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	38
39	--		--	--	--			1200	1200	--	--	--		--	40
41	SPD		--	30	2	0	1200			2	50	Recept...		Rec - Lab A123	42
43	--		--	--	--			0	1200	--	--	--		--	44
45	Rec - Lab A123		Recept...	50	2	1200	1200			2	50	Recept...		Rec - Lab A123	46
47	--		--	--	--			1200	1200	--	--	--		--	48
49	Spare		--	20	1	0	--			1	--	--		Space	50
51	Spare		--	20	1			0	--	1	--	--		Space	52
53	Spare		--	20	1	0	--			1	--	--		Space	54
55	Spare		--	20	1			0	--	1	--	--		Space	56
57	Spare		--	20	1	0	--			1	--	--		Space	58
59	Spare		--	20	1			0	--	1	--	--		Space	60
61	Spare		--	20	1	0	--			1	--	--		Space	62
63	Spare		--	20	1			0	--	1	--	--		Space	64
65	Spare		--	20	1	0	--			1	--	--		Space	66
67	Spare		--	20	1			0	--	1	--	--		Space	68
69	Spare		--	20	1	0	--			1	--	--		Space	70
71	Spare		--	20	1			0	--	1	--	--		Space	72
73	Spare		--	20	1	0	--			1	--	--		Space	74
75	Spare		--	20	1			0	--	1	--	--		Space	76
77	Spare		--	20	1	0	--			1	--	--		Space	78
79	Spare	1	--	20	1			0	--	1	--	--		Space	80
81	Spare	1	--	20	1	0	--			1	--	--		Space	82
83	Spare		--	20	1			0	--	1	--	--		Space	84
					Total Phase Connected Load (VA):	25200		25200							
					Total Phase Connected Current (A):	210		210							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Power	9600 VA	100.00%	9600 VA	**Total Connected Load (VA):**	50400 VA
Receptacle	40800 VA	62.25%	25400 VA	**Total Demand Load (VA):**	35000 VA
				Total Connected Current (A):	210 A
				Highest Connected Phase Current (A):	210 A
				Total Demand Current (A):	146 A

Notes:

Circuit Notes:
1. PROVIDE GFCI BREAKER

Panel: L2-S-A **Enclosure:** NEMA 1 **Volts:** 120/240 Single **Bus Rating:** 600 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY A101 **Mounting:** SURFACE **Phases:** 1 **Main Device Type:** MLO
Fed From: TX-L2-S-A **Wires:** 3 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	LVL2 EV CHARGERS BUS BAY #1		Recept...	50	2	1200	1200			2	50	Recept...		LVL2 EV CHARGERS BUS BAY #2	2
3	--		--	--	--			1200	1200	--	--	--		--	4
5	LVL2 EV CHARGERS BUS BAY #3		Recept...	50	2	1200	1200			2	50	Recept...		LVL2 EV CHARGERS BUS BAY #4	6
7	--		--	--	--			1200	1200	--	--	--		--	8
9	LVL2 EV CHARGERS BUS BAY #5		Recept...	50	2	1200	0			1	20	--		Spare	10
11	--		--	--	--			1200	0	1	20	--		Spare	12
13	Spare		--	50	2	0	0			1	20	--		Spare	14
15	--		--	--	--			0	0	1	20	--		Spare	16
17	Spare		--	50	2	0	0			1	20	--		Spare	18
19	--		--	--	--	0	0			1	20	--		Spare	20
21	Spare		--	50	2	0	0			1	20	--		Spare	22
23	--		--	--	--			0	0	1	20	--		Spare	24
25	Spare		--	50	2	0	0			1	20	--		Spare	26
27	--		--	--	--			0	0	1	20	--		Spare	28
29	Spare		--	50	2	0	0			1	20	--		Spare	30
31	--		--	--	--	0	0			1	20	--		Spare	32
33	Spare		--	50	2	0	0			1	20	--		Spare	34
35	--		--	--	--			0	0	1	20	--		Spare	36
37	Spare		--	50	2	0	--			1	--	--		SPACE	38
39	--		--	--	--			0	--	1	--	--		SPACE	40
41	SPACE		--	--	1	--	--			1	--	--		SPACE	42
43	SPACE		--	--	1			--	--	1	--	--		SPACE	44
45	SPACE		--	--	1	--	--			1	--	--		SPACE	46
47	SPACE		--	--	1			--	--	1	--	--		SPACE	48
49	SPACE		--	--	1	--	--			1	--	--		SPACE	50
51	SPD		--	30	2			0	--	1	--	--		SPACE	52
53	--		--	--	--	0	--			1	--	--		SPACE	54
					Total Phase Connected Load (VA):	6000		6000							
					Total Phase Connected Current (A):	50		50							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Receptacle	12000 VA	91.67%	11000 VA	**Total Connected Load (VA):**	12000 VA
				Total Demand Load (VA):	11000 VA
				Total Connected Current (A):	50 A
				Highest Connected Phase Current (A):	50 A
				Total Demand Current (A):	46 A

Notes:

Circuit Notes:

Panel: L2-S-D **Enclosure:** NEMA 1 **Volts:** 120/208 Wye **Bus Rating:** 600 A **A.I.C. Rating:** 22,000 A
Location: ELECTRICAL ROOM **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: TX-L2-S-D **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare	1	--	20	1	0	0					3	60	--		SPD	2
3	Spare	1	--	20	1			0	0			--	--	--		--	4
5	Spare	1	--	20	1					0	0	--	--	--		--	6
7	Spare	1	--	20	1	0	1080					1	20	Receptacle		Rec - Ceiling Solar Lab A116	8
9	Spare	1	--	20	1			0	1080			1	20	Receptacle		Rec - Ceiling Solar Lab A116	10
11	Spare	1	--	20	1					0	540	1	20	Receptacle		Rec - EV Bat Lab A123	12
13	Spare	1	--	20	1	0											14
15	Spare	1	--	20	1			0									16
17	Spare	1	--	20	1					0							18
19	Spare	1	--	20	1	0	720					1	20	Receptacle		Rec - Lab A116	20
21	Rec - Lab A116		Receptacle	20	1			180	1080			1	20	Receptacle		Rec - Lab A116	22
23	Rec - Lab A116		Receptacle	20	1					180	1080	1	20	Receptacle		Rec - Ceiling Solar Lab A116	24
25	Rec - Lab A116		Receptacle	20	1	180	1920					1	35	Power		Garage Power - Bus Bay A101	26
27	Rec - Lab A116		Receptacle	20	1			180	540			1	20	Receptacle		Rec - Lab A116	28
29	Rec - Lab A116		Receptacle	20	1					1080	180	1	20	Receptacle		Rec - Lab A116	30
31	Rec - Lab A116		Receptacle	20	1	720	180					1	20	Receptacle		Rec - Lab A116	32
33	Rec - Lab A123		Receptacle	20	1			900	180			1	20	Receptacle		Rec - Lab A116	34
35	Rec - Lab A123		Receptacle	20	1					720	180	1	20	Receptacle		Rec - Lab A116	36
37	Rec - Lab A123		Receptacle	20	1	720	180					1	20	Receptacle		Rec - Lab A116	38
39	Rec - Lab A123		Receptacle	20	1			1080	180			1	20	Receptacle		Rec - Tool Room A121	40
41	Rec - Lab A123		Receptacle	20	1					540	180	1	20	Receptacle		Rec - Battery Room A122	42
43	Rec - Battery Room A122		Receptacle	20	1	360	540					1	20	Receptacle		Rec - Battery Room A122	44
45	Garage Power - Bus Bay A101		Power	35	1			1920	180			1	20	Receptacle		Rec - Lab A123	46
47	Garage Power - Stor. Area A110		Power	35	1					1920	180	1	20	Receptacle		Rec - Lab A123	48
49	Garage Power - Solar Lab A116		Power	35	1	1920	180					1	20	Receptacle		Rec - Lab A123	50
51	Garage Power - Lab A123		Power	35	1			1920	180			1	20	Receptacle		Rec - Lab A123	52
53	Rec - Mech units		Receptacle	20	1					360	180	1	20	Receptacle		Rec - Lab A123	54
55	Rec - Mech units		Receptacle	20	1	540	180					1	20	Receptacle		Rec - Lab A123	56
57	Rec - TV Solar Lab A116		Receptacle	20	1			720	180			1	20	Receptacle		Rec - Lab A123	58
59	Rec - Bus Bay A101		Receptacle	20	1					900	180	1	20	Receptacle		Rec - Lab A123	60
61	Rec - TV Solar Lab A116		Receptacle	20	1	720	180					1	20	Receptacle		Rec - Lab A123	62
63	Rec - Lab A123		Receptacle	20	1			1080	180			1	20	Receptacle		Rec - Lab A123	64
65	Rec - Lab A123		Receptacle	20	1					720	1000	1	20	Power		Power - Shades Corridor A124	66
67	Rec - MDF A107		Receptacle	20	1	720	720					1	20	Receptacle		Rec - MDF A107	68
69	Rec - MDF A107		Receptacle	20	1			720	720			1	20	Receptacle		Rec - MDF A107	70
71	FACP - MDF A107	3	Power	20	1					200	360	1	20	Receptacle		Rec - MDF A107 Rack	72
73	Rec - MDF A107 Rack		Receptacle	20	1	360	720					1	20	Receptacle		Rec - Bus Bay A101	74
75	Rec - TV EV Lab A123		Receptacle	20	1			720	1920			1	35	Power		Garage Power - Bus Bay A101	76
77	Rec - TV EV Lab A123		Receptacle	20	1					720	540	1	20	Receptacle		Rec - Bus Bay A101, Riser A100	78
79	Rec - Bus Bay A101		Receptacle	20	1	540	180					1	20	Receptacle		Rec - Solar Lab A116	80
81	Rec - Tool Room A121		Receptacle	20	1			540	360			1	20	Receptacle		Rec - Tool Room A121	82
83	Rec - Tool Room A120		Receptacle	20	1					540	360	1	20	Receptacle		Rec - Tool Room A120	84
85	Rec - Tool Room A120		Receptacle	20	1	180	120					3	20	Receptacle		Rec - Solar Lab A116	86
87	Rec - Lab A123		Receptacle	20	1			720	120			--	--	--		--	88
89	Receptacle		Receptacle	20	1					720	120	--	--	--		--	90
91	Spare		--	20	1	0	0					1	20	--		Spare	92
93	Spare		--	20	1			0	0			1	20	--		Spare	94
95	Spare		--	20	1					0	0	1	20	--		Spare	96
97	Spare		--	20	1	0	0					1	20	--		Spare	98
99	Spare		--	20	1			0	0			1	20	--		Spare	100
101	Spare		--	20	1					0	0	1	20	--		Spare	102
103	Spare		--	20	1	0	0					1	20	--		Spare	104
105	Rec - MDF A107 Rack		Receptacle	30	2			750	750			2	30	Receptacle		Rec - MDF A107 Rack	106
107	--		--	--	--					750	750	--	--	--		--	108
109	Space		--	--	1	--	0					1	20	--		Spare	110
111	Space		--	--	1			--	0			1	20	--		Spare	112
113	Space		--	--	1					--	0	1	20	--		Spare	114
115	Space		--	--	1	--	0					1	20	--		Spare	116
117	Space		--	--	1			--	0			1	20	--		Spare	118
119	Space		--	--	1					--	0	1	20	--		Spare	120
121	Space		--	--	1	--	0					1	20	--		Spare	122
123	Space		--	--	1			--	0			1	20	--		Spare	124
125	Space		--	--	1					--	0	1	20	--		Spare	126
127	Space		--	--	1	--	0					1	20	--		Spare	128
129	Space		--	--	1			--	0			1	20	--		Spare	130
131	Space		--	--	1					--	0	1	20	--		Spare	132
133	Space		--	--	1	--	0					1	20	--		Spare	134
135	Space		--	--	1			--	0			1	20	--		Spare	136
137	Space		--	--	1					--	0	1	20	--		Spare	138
139	Space		--	--	1	--	0					1	20	--		Spare	140
141	Space		--	--	1			--	0			1	20	--		Spare	142
143	Space		--	--	1					--	0	1	20	--		Spare	144
145	Space		--	--	1	--	0					1	20	--		Spare	146
147	Space		--	--	1			--	0			1	20	--		Spare	148
149	Space		--	--	1					--	0	1	20	--		Spare	150
151	Space		--	--	1	--	0					1	20	--		Spare	152
153	Space		--	--	1			--	0			1	20	--		Spare	154
155	Space		--	--	1					--	0	1	20	--		Spare	156
157	Space		--	--	1	--	0					1	20	--		Spare	158
159	Space		--	--	1			--	0			1	20	--	2	Spare	160
161	Space		--	--	1					--	0	1	20	--	2	Spare	162
					Total Phase Connected Load (VA):	13860		19080		15180							
					Total Phase Connected Current (A):	116		161		128							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Power	12720 VA	100.00%	12720 VA	**Total Connected Load (VA):**	48120 VA
Receptacle	35400 VA	64.12%	22700 VA	**Total Demand Load (VA):**	35420 VA
				Total Connected Current (A):	134 A
				Highest Connected Phase Current (A):	161 A
				Total Demand Current (A):	98 A

Notes:
A. PROVIDE 3 EQUAL SECTIONS
B. PROVIDE ISOLATED GROUND BUS

Circuit Notes:
1. GFCI BREAKER
2. GFPE BREAKER
3. RED LOCK ON DEVICE

PANEL SCHEDULE BLOCK LAYOUT

L1-N-C L3-S-D L2-S-D

L1-S-D L2-S-A

NOTES:
A. PANELBOARDS ARE OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.

B. PROVIDE BREAKERS INTERNAL TO PANELBOARD WHERE SPECIFICALLY NOTED. BREAKERS SHALL BE COMPATIBLE WITH PANEL LISTED. MATCH EXISTING VOLTAGE, MANUFACTURER, TYPE, ETC. PROVIDE AIC RATING EQUAL OR EXCEEDING THE AIC RATING ON THE SCHEDULE.

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
ELECTRICAL - PANEL SCHEDULES

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

E0.8

Dewberry
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(205) 988-2069
www.dewberry.com
Project Number : 50182832

POWER/HVAC/PLUMBING EQUIPMENT SCHEDULE

GENERAL NOTES:
A. PROVIDE FUSE ADAPTERS FOR ALL OVERSIZED DISCONNECTS.
B. WHERE NEMA RATING IS NOT INDICATED, IT IS NEMA 1.
C. INSTALL DISCONNECTS TO COMPLY WITH CLEARANCES REQUIRED PER NEC 110.26.
D. PROVIDE LABELS FOR ALL DISCONNECTS. SEE DETAIL AND SPECIFICATIONS.
E. COORDINATE FINAL PLACEMENT OF ALL MECHANICAL/PLUMBING/GENERAL EQUIPMENT WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.

EQUIPMENT NAME	KW	HP	FLA	MCA	ELECTRICAL DATA	BREAKER	FEEDER WIRE & CONDUIT	PANEL	CIRCUIT #	CONNECTION TYPE	DISC. AMP, POLES, FUSE, NEMA	REMARKS
AC-1				107	480 V/3-88958 VA	150/3	3#1/0 & 1#6(G) - 2"C.	MPA	7,9,11	DISCONNECT	200A, 3P, 125AF, 3R	
AC-2				64	480 V/3-53209 VA	100/3	3#1 & 1#8(G) 1 1/2"C.	MPA	8,10,12	DISCONNECT	100A, 3P, 80AF, 3R	
AC-3				55	480 V/3-45726 VA	100/3	3#1 & 1#8(G) 1 1/2"C.	MPA	13,15,17	DISCONNECT	100A, 3P, 70AF, 3R	
AC-4				55	480 V/3-45726 VA	100/3	3#1 & 1#8(G) 1 1/2"C.	MPB	20,22,24	DISCONNECT	100A, 3P, 70AF, 3R	
AC-5				40	480 V/3-33255 VA	60/3	3#6 & 1#8 - 3/4"C.	MPB	7,9,11	DISCONNECT	60A, 3P, 50AF, 3R	
AC-6				47	480 V/3-39075 VA	100/3	3#1 & 1#8(G) 1 1/2"C.	MPB	8,10,12	DISCONNECT	100A, 3P, 60AF, 3R	
AC-7				55	480 V/3-45726 VA	100/3	3#1 & 1#8(G) 1 1/2"C.	MPB	13,15,17	DISCONNECT	100A, 3P, 70AF, 3R	
AD-1	5	6			208 V/2-5000 VA	40/2	2#8 & 1#10 - 1"C.	L1-S-A	117,119	DISCONNECT	60A, 2P, 30AF, 3R	
COMP-1		60			480 V/3-63987 VA	150/3	3#1/0 & 1#6 - 2"C.	MPA	20,22,24	DISCONNECT	200A, 3P, 125AF	
DH-1				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-S-A	21	CORD AND PLUG	N/A	
DH-2				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-S-A	22	CORD AND PLUG	N/A	
DH-3				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-S-A	23	CORD AND PLUG	N/A	
DH-4				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-S-A	24	CORD AND PLUG	N/A	
DH-5				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-N-B	17	CORD AND PLUG	N/A	TYPE B, 5-15R
DH-6				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-N-B	18	CORD AND PLUG	N/A	TYPE B, 5-15R
DH-7				6.3	120 V/1-612 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-N-B	19	CORD AND PLUG	N/A	TYPE B, 5-15R
EF-1		5			480 V/3-6320 VA	15/3	3#12 & 1#12(G) - 3/4"C.	H1-S-A	1,3,5	DISCONNECT	30A, 3P, 15AF	
EF-2		1/2			120 V/1-1176 VA	20/1	2#12 & 1#12(G) - 3/4"C.	L1-S-A	19	MOTOR RATED SWITCH	30A, 1P	
EF-3		1/3			120 V/1-664 VA	15/1	2#12 & 1#12(G) - 3/4"C.	L1-N-B	15	MOTOR RATED SWITCH	30A, 1P	
EF-4		2			480 V/3-1496 VA	15/3	3#12 & 1#12(G) - 3/4"C.	H1-N-B	20,22,24	DISCONNECT	30A, 3P, 15AF	
EF-5		1			480 V/3-1746 VA	15/3	3#12 & 1#12(G) - 3/4"C.	H1-N-B	25,27,29	DISCONNECT	30A, 3P, 15AF	
EWH-A	5.0				208 V/3-5000 VA	20/3	3#8 & 1#8(G) 1 1/4"C.	L1-S-A	45,47,49	DISCONNECT	30A, 3P, 20AF	
IHP-1				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-S-A	41,43	DISCONNECT	60A, 2P, 60AF	
IHP-2				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-S-A	2,4	DISCONNECT	60A, 2P, 60AF	
IHP-4				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-S-A	6,8	DISCONNECT	60A, 2P, 60AF	
IHP-4				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-S-A	7,9	DISCONNECT	60A, 2P, 60AF	
IHP-5				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-S-A	10,12	DISCONNECT	60A, 2P, 50AF	
IHP-6				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-N-B	2,4	DISCONNECT	60A, 2P, 60AF	
IHP-7				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-N-B	6,8	DISCONNECT	60A, 2P, 60AF	
IHP-8				50.8	208 V/2-8453 VA	70/2	2#4 & 1#8 - 1"C.	L1-N-B	7,9	DISCONNECT	60A, 2P, 60AF	
IHP-9				40.2	208 V/2-8453 VA	60/2	2#4 & 1#8 - 1"C.	L1-N-B	36,38	DISCONNECT	60A, 2P, 45AF	
LEVEL III EV CHARGER #1			168		480 V/3-139608 VA	250/3	3#250 MCM & 1#4 - 3"C.	MPD	12,14,16	DISCONNECT	400A, 3P, 225AF	
LEVEL III EV CHARGER #1			168		480 V/3-139608 VA	250/3	3#250 MCM & 1#4 - 3"C.	MPC	12,14,16	DISCONNECT	400A, 3P, 225AF	
LEVEL III EV CHARGER #1			168		480 V/3-139608 VA	250/3	3#250 MCM & 1#4 - 3"C.	MPB	14,16,18	DISCONNECT	400A, 3P, 225AF	
LEVEL III EV CHARGER #1			168		480 V/3-139608 VA	250/3	3#250 MCM & 1#4 - 3"C.	MPA	19,21,23	DISCONNECT	400A, 3P, 225AF	
MS-ELEC-1				29	208 V/2-4825 VA	40/2	2#8 & 1#10 - 1"C.	L1-S-A	26,28	DISCONNECT	60A, 2P, 30AF, 3R	
MS-ELEC-2				29	208 V/2-4825 VA	40/2	2#8 & 1#10 - 1"C.	L1-N-B	21,23	DISCONNECT	60A, 2P, 30AF, 3R	
MS-IDF				29	208 V/2-4825 VA	40/2	2#8 & 1#10 - 1"C.	L1-N-B	20,22	DISCONNECT	60A, 2P, 30AF, 3R	
MS-MDF				22	208 V/2-4825 VA	40/2	2#8 & 1#10 - 1"C.	L1-S-A	25,27	DISCONNECT	60A, 2P, 30AF, 3R	
OAF-1		1/2			120 V/1-1176 VA	20/1	2#10 & 1#10(G) - 3/4"C.	L1-N-B	37	MOTOR RATED SWITCH	30A, 1P	
OHP-1				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-S-A	29,31	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-2				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-S-A	11,13	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-3				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-S-A	14,16	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-4				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-S-A	15,17	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-5				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-S-A	18,20	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-6				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-N-B	10,12	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-7				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-N-B	11,13	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-7				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-N-B	14,16	DISCONNECT	60A, 2P, 30AF, 3R	
OHP-9				29	208 V/2-4825 VA	40/2	2#6 & 1#10 - 1 1/4"C.	L1-N-B	24,26	DISCONNECT	60A, 2P, 30AF, 3R	
TU-7-1	12				480 V/3-12000 VA	20/3	3#10 & 1#10(G) - 1"C.	H1-N-B	1,3,5	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-2	6				480 V/3-6000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	2,4,6	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-3	8				480 V/3-8000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	7,9,11	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-4	5.0				480 V/3-5000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	8,10,12	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-5	5				480 V/3-3000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	26,28,30	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-6	4				480 V/3-3000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	31,33,35	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-7	4				480 V/3-3000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	13,15,17	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-8	4.0				480 V/3-4000 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	14,16,18	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
TU-7-9	4				480 V/3-8500 VA	15/3	3#12 & 1#12 - 3/4"C.	H1-N-B	19,21,23	DISCONNECT	INTEGRAL	DISCONNECT BY MECHANICAL
WH-1	15				480 V/3-15000 VA	30/3	3#8 & 1#8(G) 1 1/4"C.	H1-S-A	8,10,12	DISCONNECT	30A, 3P, 25AF	

Panel: L3-N-C **Enclosure:** NEMA 1 **Volts:** 120/240 Single **Bus Rating:** 600 A **A.I.C. Rating:** 42,000 A
Location: ELECTRIC VEHICLE LAB **Mounting:** SURFACE **Phases:** 1 **Main Device Type:** MLO
Fed From: TX-L3-N-C **Wires:** 3 **Main Device Size:** **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Rec - Classroom B106		Receptacle	50	2	1200	0			2	50	--		Spare	2
3	--		--	--	--			1200	0	--	--	--		--	4
5	Lighting - Lab B105		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Classroom B102	6
7	--		--	--	--			1200	1200	--	--	--		--	8
9	Rec - Classroom B102		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Lab B105	10
11	--		--	--	--			1200	1200	--	--	--		--	12
13	Rec - Lab B105		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Lab B105	14
15	--		--	--	--			1200	1200	--	--	--		--	16
17	Rec - Lab B105		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Lab B105	18
19	--		--	--	--			1200	1200	--	--	--		--	20
21	Rec - Lab B105		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Lab B105	22
23	--		--	--	--			1200	1200	--	--	--		--	24
25	Rec - Lab B105		Receptacle	50	2	1200	1200			2	50	Receptacle		Rec - Lab B105	26
27	--		--	--	--			1200	1200	--	--	--		--	28
29	Spare		--	50	2	0	0			2	50	--		Spare	30
31	--		--	--	--			0	0	--	--	--		--	32
33	Spare		--	50	2	0	0			2	50	--		Spare	34
35	--		--	--	--			0	0	--	--	--		--	36
37	Spare		--	50	2	0	0			2	50	--		Spare	38
39	--		--	--	--			0	0	--	--	--		--	40
41	Spare		--	50	2	0	0			2	50	--		Spare	42
43	--		--	--	--			0	0	--	--	--		--	44
45	Spare		--	20	1	0	0			2	30	--		SPD	46
47	Spare		--	20	1			0	0	--	--	--		--	48
49	Spare		--	20	1	0	--			1	--	--		Space	50
51	Spare		--	20	1			0	--	1	--	--		Space	52
53	Spare		--	20	1	0	--			1	--	--		Space	54
55	Spare		--	20	1			0	--	1	--	--		Space	56
57	Spare		--	20	1	0	--			1	--	--		Space	58
59	Spare		--	20	1			0	--	1	--	--		Space	60
61	Spare		--	20	1	0	--			1	--	--		Space	62
63	Spare	1	--	20	1			0	--	1	--	--		Space	64
65	Spare	1	--	20	1	0	--			1	--	--		Space	66
67	Spare	1	--	20	1			0	--	1	--	--		Space	68
69	Space		--	--	1	--	--			1	--	--		Space	70
71	Space		--	--	1			--	--	1	--	--		Space	72
73	Space		--	--	1	--	--			1	--	--		Space	74
75	Space		--	--	1			--	--	1	--	--		Space	76
77	Space		--	--	1	--	--			1	--	--		Space	78
79	Space		--	--	1			--	--	1	--	--		Space	80
81	Space		--	--	1	--									82
83	Space		--	--	1			--							84
					Total Phase Connected Load (VA):	15600		15600							
					Total Phase Connected Current (A):	130		130							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Receptacle	31200 VA	66.03%	20600 VA	**Total Connected Load (VA):**	31200 VA
				Total Demand Load (VA):	20600 VA
				Total Connected Current (A):	130 A
				Highest Connected Phase Current (A):	130 A
				Total Demand Current (A):	86 A

Notes:

Circuit Notes:
1. PROVIDE GFCI BREAKER

Panel: H1-S-D **Enclosure:** NEMA 1 **Volts:** 480/277 Wye **Bus Rating:** 250 A **A.I.C. Rating:** 65,000 A
Location: BUS BAY **Mounting:** SURFACE **Phases:** 3 **Main Device Type:** MLO
Fed From: MPD **Wires:** 4 **Main Device Size:** -- **Fault Current:**

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	Spare			20	3	0	0					3	20			Spare	2
3	--		-	--	--			0	0			--	--	-		--	4
5	--		-	--	--					0	0	--	--	-		--	6
7	Spare		-	30	3	0	0					3	30	-		Spare	8
9	--		-	--	--			0	0			--	--	-		--	10
11	--		-	--	--					0	0	--	--	-		--	12
13	Lighting - Bus Bay A101		Lighting	20	1	4033	4135					1	20	Lighting		Lighting - Bus Bay A101	14
15	Lighting - Train. Equip. Stor. A110		Lighting	20	1			2801	312			1	20	Lighting - Exterior		Lighting - Exterior	16
17	Lighting - Exterior		Lighting - Exterior	20	1					530	326	1	20	Lighting		Lighting - Storage A105	18
19	Lighting - Lab A123		Lighting	20	1	1972	540					1	20	Lighting - Exterior		Lighting - Exterior - Back Parking	20
21	Lighting - Lab A116		Lighting	20	1			2075	450			1	20	Lighting - Exterior		Lighting - Exterior - Front Parking	22
23	Lighting - Canopy		Lighting - Exterior	20	1					695	2280	1	20	Lighting		LTG - EXTERIOR COLORED	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	SPD		-	60	3	0	0					1	20	-		Spare	38
39	--		-	--	--			0	0			1	20	-		Spare	40
41	--		-	--	--					0	0	1	20	-		Spare	42
43	Spare		-	20	1	0	--					1	--	-		Space	44
45	Spare		-	20	1			0	--			1	--	-		Space	46
47	Spare		-	20	1					0	--	1	--	-		Space	48
49	Spare		-	20	1	0	--					1	--	-		Space	50
51	Spare		-	20	1			0	--			1	--	-		Space	52
53	Spare		-	20	1					0	--	1	--	-		Space	54
					Total Phase Connected Load (VA):	10679		5622		3809							
					Total Phase Connected Current (A):	40		21		14							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	18421 VA	125.00%	23026 VA	**Total Connected Load (VA):**	20105 VA
Lighting - Exterior	1697 VA	125.00%	2121 VA	**Total Demand Load (VA):**	25132 VA
				Total Connected Current (A):	24 A
				Highest Connected Phase Current (A):	40 A
				Total Demand Current (A):	30 A

Notes:

Circuit Notes:

PANEL SCHEDULE BLOCK LAYOUT

L3-N-C

H1-S-D

NOTES:
A. PANELBOARDS ARE OWNER FURNISHED, CONTRACTOR INSTALLED. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS FOR RECIEVEING, STORING, AND INSTALLING THE EQUIPMENT.

B. PROVIDE BREAKERS INTERNAL TO PANELBOARD WHERE SPECIFICALLY NOTED. BREAKERS SHALL BE COMPATIBLE WITH PANEL LISTED. MATCH EXISTING VOLTAGE, MANUFACTURER, TYPE, ETC. PROVIDE AIC RATING EQUAL OR EXCEEDING THE AIC RATING ON THE SCHEDULE.

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
ELECTRICAL PANEL AND EQUIPMENT SCHEDULES

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO:

E0.9

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www.dewberry.com

Project Number :
50182832

SITE LEGEND

PMT	PAD MOUNTED TRANSFORMER
PMS	PAD MOUNTED SWITCH
G	GENERATOR (OUTDOOR ENCLOSURE)
MH	MANHOLE
HH	HANDHOLE
P	UTILITY POLE

SITE POWER AND TELEPHONE NOTES:

(UA) LOCATION OF HIGH VOLTAGE SERVICE POINT.

(UB) (2)-5"C FOR HIGH VOLTAGE SERVICE. EXISTING FROM A PREVIOUS CONSTRUCTION PACKAGE.

(UC) TRANSFORMER SLAB-BOX, WITH TRAFFIC GUARDS PER UTILITY COMPANY REQUIREMENTS. VERIFY SIZE, LOCATION AND ORIENTATION WITH UTILITY COMPANY.

(UD) SECONDARY FROM TRANSFORMER TO MAIN DISCONNECT AND FEEDER FROM FUTURE GENERATOR LOCATION (RESPECTFULLY). EMPTY CONDUIT EXISTING FROM A PREVIOUS CONSTRUCTION PACKAGE. SEE RISER DIAGRAM. PROVIDE WIRING WITHIN PER DRAWINGS AND SPECIFICATIONS. EXISTING CONDUIT IS SCHEDULE 40 PVC CONDUIT.

(UE) LOCATION OF TELEPHONE SERVICE POINT.

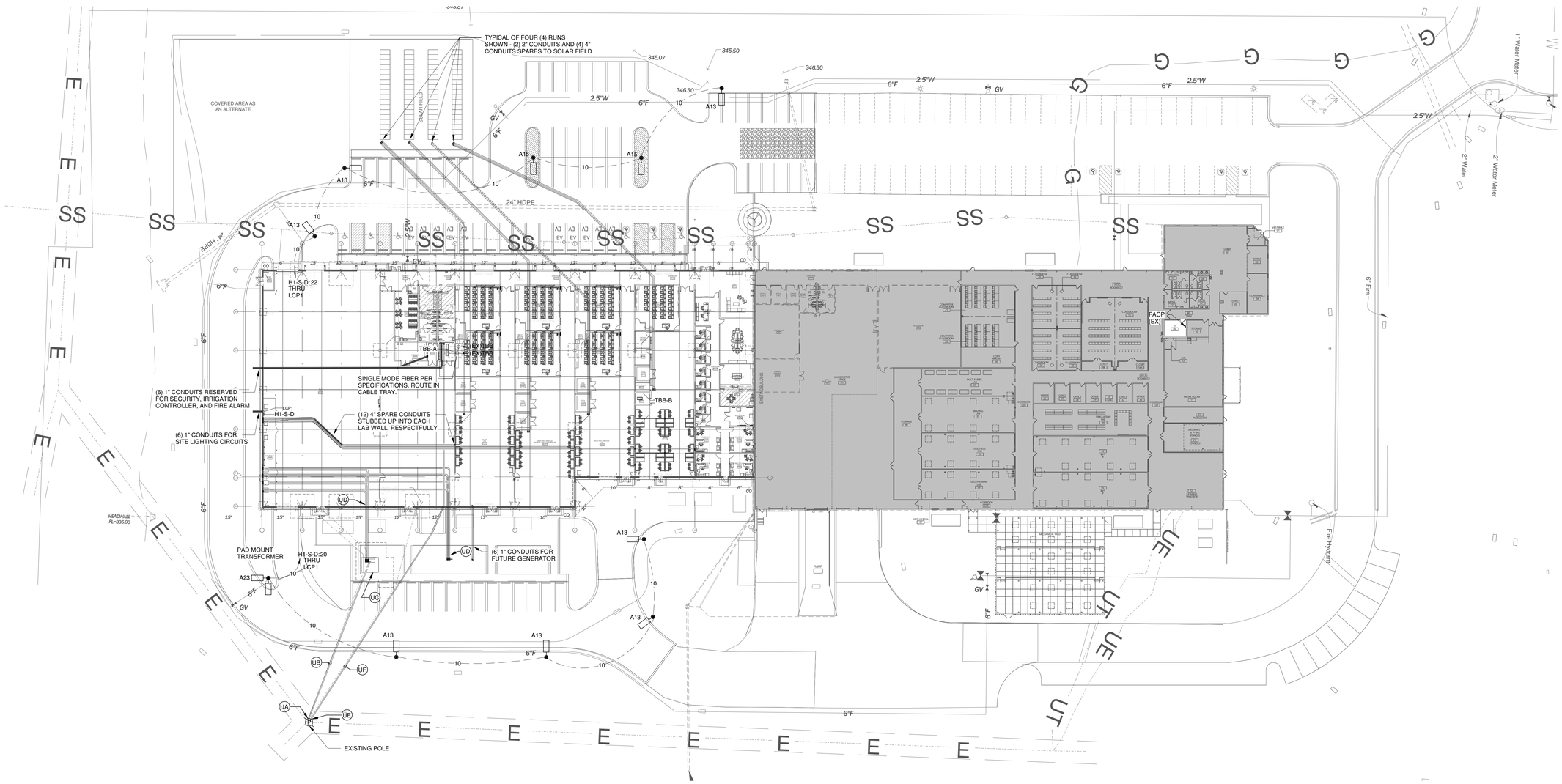
(UF) (4)-4"C TO MAIN TELEPHONE SERVICE ENTRANCE. EXISTING FROM A PREVIOUS CONSTRUCTION PACKAGE.

1. UTILITY CONTACTS:

SOUTHERN COMPANY - *DREW MORRIS - ENGINEER - JASPER,*
CELL: 205-300-6236
DESK: 205-384-7306,
ANMORRIS@SOUTHERNCO.COM

SITE PLAN GENERAL NOTES:

A. CONDUITS SHOWN UNDER SLAB ARE EXISTING AND STUBBED UP ON SITE WITH PULL STRINGS INCLUDED. EC SHALL PROVIDE ALL EXTENSIONS TO LIGHT POLES, EQUIPMENT, ETC. CONTRACTOR SHALL VISIT THE SITE FOR EXISTING CONDITIONS DURING THE BID. ROUTES SHOWN ARE APPROXIMATE AND TO BE USED AS A GUIDE.



1 ELECTRICAL - SITE PLAN
1" = 30'-0"

0' 30' 60'
SCALE: 1" = 30'

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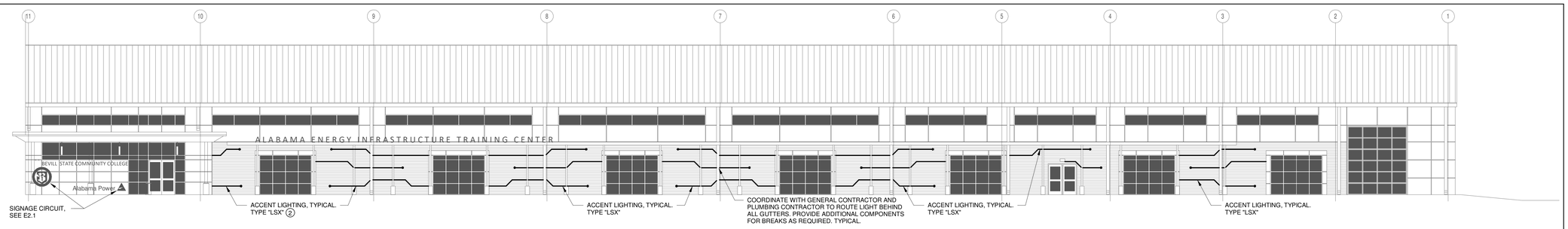
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL SITE PLAN

ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 FRED MICHAEL MARQUARDT

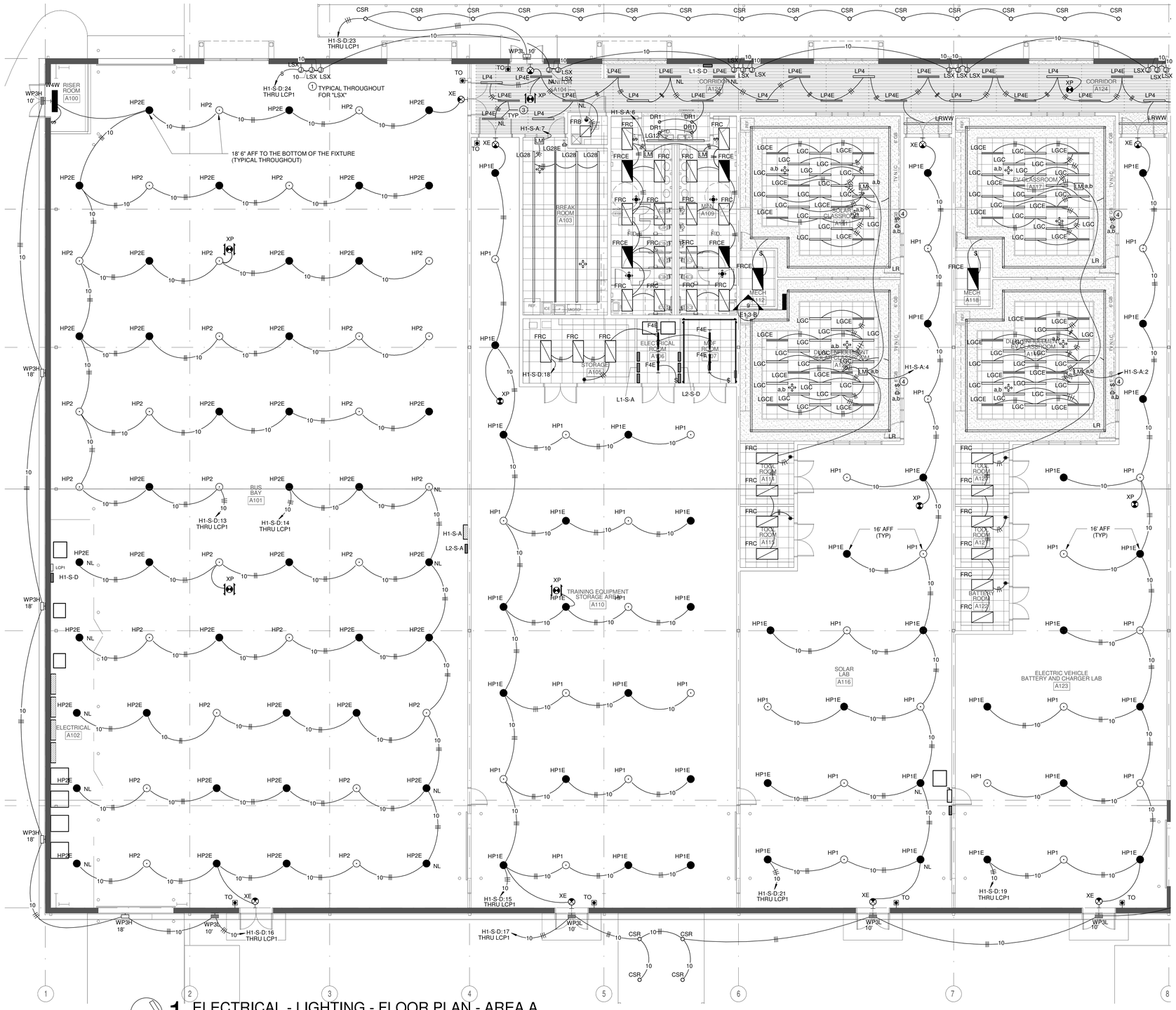
PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C
SHEET NO: E1.0



2 ELEVATION - EXTERIOR LIGHTING ACCENT

3/32" = 1'-0"



1 ELECTRICAL - LIGHTING - FLOOR PLAN - AREA A

1/8" = 1'-0"

SHEET KEYNOTES: 2

1. REMOTE DRIVER LOCATION FOR LINEAR-CIRCLED PATTERN LIGHTING. SEE ELEVATION - EXTERIOR LIGHTING ACCENT. LOCATE ABOVE ACCESSIBLE BAFFLES. IN OPEN CEILING AREAS, LOCATE AT 19'-0" ABOVE WINDOWS. FIELD LOCATE DRIVERS TO MINIMIZE LENGTH OF CLASS 2 WIRING TO THE LIGHT. ALL CLASS 2 WIRING SHALL BE CONCEALED. FIELD LOCATE DMX CONTROLLER WHERE DIRECTED BY OWNER. TYPICAL FOR EACH GROUP OF WALL MOUNTED JUNCTION BOXES SHOWN IN THIS LOCATION.
2. TYPE LSX SHALL BE DMX RGBW SURFACE MOUNTED CUSTOM PATTERN. SEE LUMINAIRE SCHEDULE. EACH INDIVIDUAL RUN SHALL HAVE ITS OWN DMX ADDRESS SO THAT COLORS CAN BE CHANGED INDIVIDUALLY ON EACH RUN. PATTERN SHALL BE AS SHOWN IN THIS ELEVATION. CONFIRM EXACT LENGTHS WITH ARCHITECTURAL ELEVATIONS. PROVIDE ALL MOUNTING ACCESSORIES, END CAPS, ETC. FOR COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DETAIL AND EXTERIOR METAL SURFACE DETAILS. ALTERNATE.
3. LOCATE THE BOTTOM OF THE LP4 AND LP4E PENDANTS AT THE SAME HEIGHT AS THE BOTTOM OF THE SURROUNDING BAFFLES. TYPICAL THROUGHOUT THIS SPACE.
4. RGBW WALL CONTROLLER.

GENERAL NOTES (APPLIES TO ALL LIGHTING SHEETS):

A. LOW VOLTAGE CIRCUITRY IS NOT SHOWN ON THE FLOOR PLANS FOR CLARITY. LOW VOLTAGE CIRCUITRY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE LIGHTING CONTROL VENDOR'S INSTRUCTIONS AND AS REQUIRED BETWEEN ALL LOW VOLTAGE CONTROLS AND FIXTURES.

B. LIGHTING CONTROLS VENDOR SHALL PRODUCE AND SUBMIT JOB SPECIFIC SHOP DRAWINGS SHOWING ALL DEVICE LOCATIONS, SENSOR COVERAGE, AND TERMINAL-TO-TERMINAL WIRING DIAGRAMS SPECIFIC TO THIS PROJECT.

C. OCCUPANCY/VACANCY COVERAGE SHOWN AS A BASIS OF DESIGN. ADD DEVICES AS REQUIRED FOR FULL COVERAGE WITHIN THE APPLICABLE AREA/ROOM.

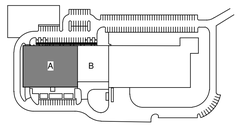
D. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS. ALL WIRING FROM DIFFERENT ELECTRICAL BRANCHES (NORMAL, EMERGENCY, OPTIONAL) SHALL BE ROUTED IN DIFFERENT RACEWAYS.

E. ALL SWITCHES SHOULD HAVE CLEAR LABELING INDICATING FUNCTION AND FIXTURE CONTROL WHERE THERE ARE MULTIPLE ZONES. EXAMPLES OF THESE ARE "ON", "OFF", ARROW DOWN FOR DIMMING, ETC. EXAMPLES OF MULTIPLE ZONES WOULD BE CLASSROOM GENERAL LIGHTING AND CLASSROOMS BOARDS. THESE LABELS SHALL BE FACTORY PRINTED ON THE SWITCHES. A FIELD APPLIES LABEL WILL NOT BE ACCEPTABLE.

F. ALL EMERGENCY LIGHTING SHALL AUTOMATICALLY ACTIVATE UPON ACTIVATION OF THE FIRE ALARM. SEE DETAIL FOR LOCAL CONTROLLED EMERGENCY LIGHTING. SEE FIRE ALARM PLANS FOR CONTROL MODULE AND RELAY LOCATIONS. CONTROL MODULE AND RELAYS SHALL BE PROVIDED AT EACH LIGHTING CONTROL PANEL.

G. PROVIDE UNISTRUT RACK AS REQUIRED FOR LIGHTING IN AREAS WITH NO CEILINGS TO WORK AROUND DUCTWORK, PIPING, CABLE TRAY, ETC. AND ACHIEVE THE SAME MOUNTING HEIGHT OFF THE FINISHED FLOOR AND LOCATION SHOWN. DO NOT SUPPORT FROM OTHER SYSTEMS (HVAC, PIPING, FIRE PROTECTION, ETC.)

H. ALL LOW VOLTAGE CABLES SHALL BE PLENUM RATED. NO EXCEPTIONS.



KEY PLAN

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

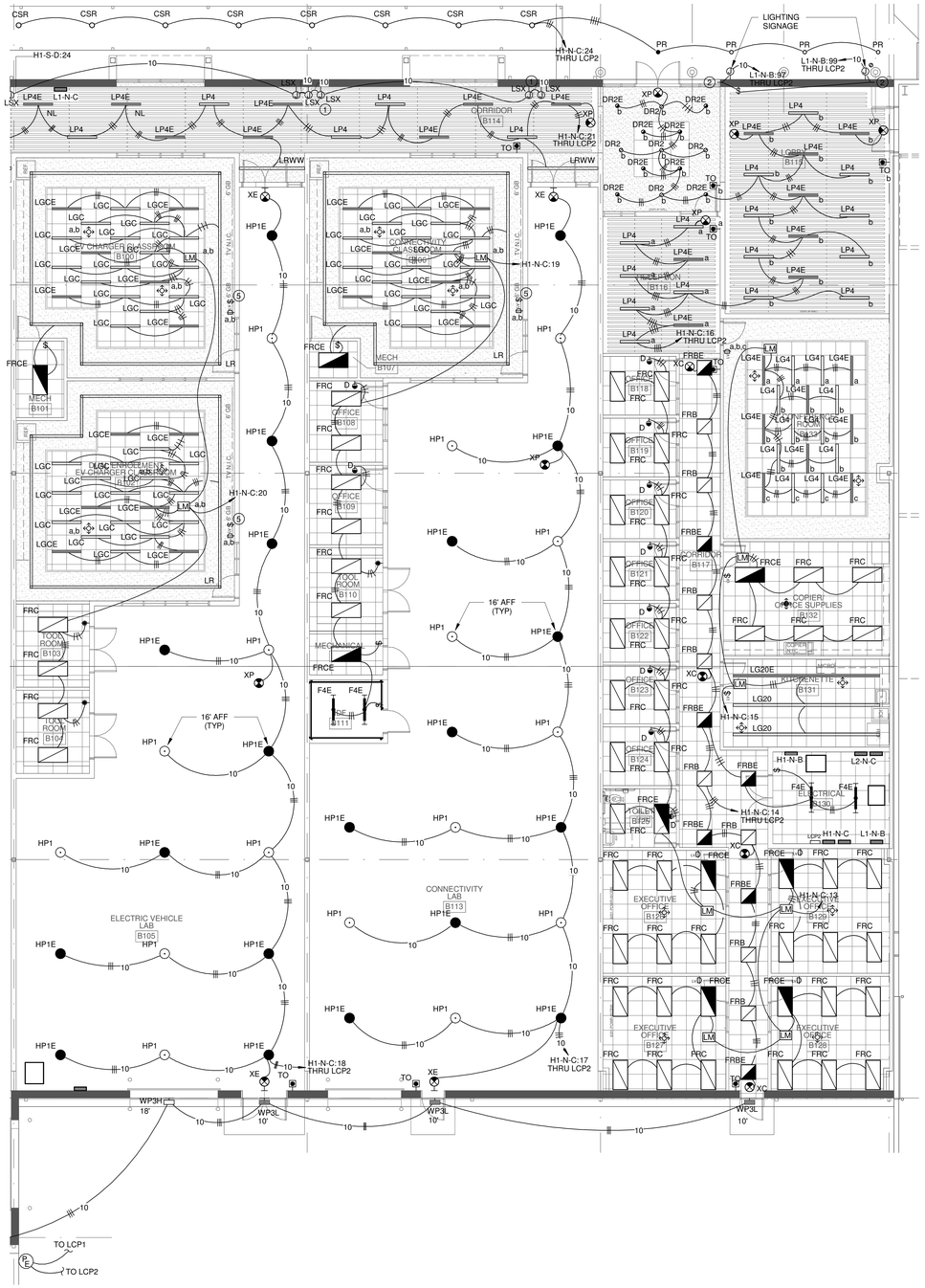
SHEET TITLE:
ELECTRICAL - LIGHTING FLOOR PLAN - AREA A

ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 REGINALD MICHAEL MANGHAM III

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: E2.0

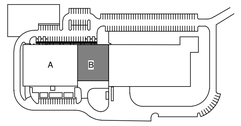


1 ELECTRICAL - LIGHTING - FLOOR PLAN - AREA B

1/8" = 1'-0"

SHEET KEYNOTES: 9

1. REMOTE DRIVER LOCATION FOR LINEAR-CIRCLED PATTERN LIGHTING. SEE ELEVATION - EXTERIOR LIGHTING ACCENT. LOCATE ABOVE ACCESSIBLE BAFFLES. IN OPEN CEILING AREAS, LOCATE AT 19'-0" ABOVE WINDOWS. FIELD LOCATE DRIVERS TO MINIMIZE LENGTH OF CLASS 2 WIRING TO THE LIGHT. ALL CLASS 2 WIRING SHALL BE CONCEALED. FIELD LOCATE DMX CONTROLLER WHERE DIRECTED BY OWNER. TYPICAL FOR EACH GROUP OF WALL MOUNTED JUNCTION BOXES SHOWN IN THIS LOCATION.
2. COORDINATE LOCATION WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN. PROVIDE DISCONNECTING MEANS AT A CONCEALED, ACCESSIBLE LOCATION (WITHOUT USE OF AN ACCESS PANEL).
3. PROVIDE HIGH BAY RANGE SENSOR.
4. SEE LIGHTING CONTROL PANEL GENERAL NOTES. CONNECT LIGHTING CONTROL PANELS TOGETHER FOR COMPATIBILITY OF SCHEDULING AND INTERFACE BETWEEN ONE SINGLE PHOTOCELL. PROVIDE ADDITIONAL WIRING FROM PHOTOCELL AS REQUIRED.
5. RGBW WALL CONTROLLER.



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PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL - LIGHTING FLOOR PLAN - AREA B

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 31403 12/19/2025 ANDREW MICHAEL MIDDLEBROOKS

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: E2.1

LCP1 SCHEDULE

SCENARIO	DATA REQUIRED	
SCHEDULE ON / OFF	* TIMED OVERRIDE DURATION (240 MIN.) * BLINK WARN (NO) * EGRESS TIME (0 MIN.)	MANUAL OVERRIDE (ON ONLY)
MANUAL ON / SCHEDULE OFF	* TIMED OVERRIDE DURATION (240 MIN.) * BLINK WARN (NO) * EGRESS TIME (0 MIN.)	MANUAL OVERRIDE (ON ONLY)
DARK ON / OFF	* DEFINE DARK FROM 2 TO 200 FC	MANUAL OVERRIDE (ON ONLY)
DARK ON / SCHEDULE OFF	* EGRESS TIME (0 MIN.) * DEFINE DARK FROM 2 TO 200 FC	

Relay	Panel	Circuit Number	Location Description	Scenario	Schedule 'ON' Time	Schedule 'OFF' Time	Remarks
1	H1-S-D	13	Bus Bay A101	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
2	H1-S-D	14	Bus Bay A101	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
3	H1-S-D	15	Storage A110	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
4	H1-S-D	21	Lab A116	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
5	H1-S-D	19	Lab A123	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
6	H1-S-D	16	Exterior	DARK ON / OFF			
7	H1-S-D	17	Exterior	DARK ON / OFF			
8	H1-S-D	24	Exterior Colored Facade	SCHEDULE ON/OFF	6:00 AM	12:00 AM	
9	H1-S-D	23	Exterior Canopy	DARK ON / OFF			
10	H1-S-D	22	Front Parking - Pole Lights	DARK ON / OFF			
11	H1-S-D	20	Back Parking - Pole Lights	DARK ON / OFF			

PROVIDE 24 RELAY CABINET. ALL UNUSED RELAYS SHALL BE SPARES.

LCP2 SCHEDULE

SCENARIO	DATA REQUIRED	
SCHEDULE ON / OFF	* TIMED OVERRIDE DURATION (240 MIN.) * BLINK WARN (NO) * EGRESS TIME (0 MIN.)	MANUAL OVERRIDE (ON ONLY)
MANUAL ON / SCHEDULE OFF	* TIMED OVERRIDE DURATION (240 MIN.) * BLINK WARN (NO) * EGRESS TIME (0 MIN.)	MANUAL OVERRIDE (ON ONLY)
DARK ON / OFF	* DEFINE DARK FROM 2 TO 200 FC	MANUAL OVERRIDE (ON ONLY)
DARK ON / SCHEDULE OFF	* EGRESS TIME (0 MIN.) * DEFINE DARK FROM 2 TO 200 FC	

Relay	Panel	Circuit Number	Location Description	Scenario	Schedule 'ON' Time	Schedule 'OFF' Time	Remarks
1	H1-N-C	14	Corridor B116	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
2	H1-N-C	16	Reception B116	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
3	H1-N-C	17	Lab B112	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
4	H1-N-C	18	Lab B105	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
5	H1-N-C	21	Corridor B113	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
6	L1-N-B	99	Outdoor Lighting Signage	ALWAYS ON			
7	L1-N-B	95	Signage Lobby B115	SCHEDULE ON/OFF	6:00 AM	7:00 PM	
8	H1-N-C	24	Exterior Canopy	DARK ON / OFF			
9	H1-N-C	16	Lobby B115		6:00 AM	7:00 PM	

PROVIDE 24 RELAY CABINET. ALL UNUSED RELAYS SHALL BE SPARES.

LUMINAIRE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	VOLT	LAMP	WATT	COLOR TEMP	DESCRIPTION	COMMENTS / OPTIONS
A13	LITHONIA	DSX0 LED-P5-40K-80CRI-T3M-MVOLT-SPA-DDBXD / SSS-25-5G-DM19AS-FBCSTL2PC-DDBXD	277	LED 12,000 LM	90 W	4000 K	LED AREA LIGHT, SINGLE HEAD, TYPE 3 DISTRIBUTION, UL LISTED FOR WET LOCATION. MOUNTED ON A 25' STEEL STRAIGHT SQUARE POLE. 7GAU STEEL THICKNESS POLE WITH STEEL BASE COVER.	PRIOR TO ORDERING, FIELD VERIFY COLOR AND FIXTURE HEIGHT MATCHES THE EXISTING PARKING LOT FIXTURES.
A15	LITHONIA	DSX0 LED-P5-40K-80CRI-T5M-MVOLT-SPA-DDBXD / SSS-25-5G-DM19AS-FBCSTL2PC-DDBXD	277	LED 12,625LM	90 W	4000 K	LED AREA LIGHT, SINGLE HEAD, TYPE 5 DISTRIBUTION, UL LISTED FOR WET LOCATION. MOUNTED ON A 25' STEEL STRAIGHT SQUARE POLE. 7GAU STEEL THICKNESS POLE WITH STEEL BASE COVER.	PRIOR TO ORDERING, FIELD VERIFY COLOR AND FIXTURE HEIGHT MATCHES THE EXISTING PARKING LOT FIXTURES.
A23	LITHONIA	(2) DSX0 LED-P5-40K-80CRI-T3M-MVOLT-SPA-DDBXD / SSS-25-5G-DM29AS-FBCSTL2PC-DDBXD	277	(2) LED 12,000 LM	180 W	4000 K	LED AREA LIGHT, TWO HEAD (90 DEGREE L), TYPE 3 DISTRIBUTION, UL LISTED FOR WET LOCATION. MOUNTED ON A 25' STEEL STRAIGHT SQUARE POLE	PRIOR TO ORDERING, FIELD VERIFY COLOR AND FIXTURE HEIGHT MATCHES THE EXISTING PARKING LOT FIXTURES.
CSR	MCGRAW EDISON LITHONIA	TTN-D2-740-U-WQ-AS REQUIRED-XXX VCPG-LED-V4-P3-40K-70CRI-T5W-MVOLT-SRM-HA-SPD10KV	277	LED 5000 LM	43 W	4000 K	SURFACE MOUNTED WIDE THROW 12" ROUND AND 4" DEEP CANOPY LED. IP66 RATED. 10KV SURGE PROTECTED. OUTDOOR RATED OPERATING TEMPERATURE. DIE-CAST ALUMINUM HOUSING.	PROVIDE ALL MOUNTING HARDWARE. DO NOT PENETRATE THE CANOPY. MOUNT TO ARCHITECTURAL FALSE BEAM CHANNEL AND CONCEAL ALL CONNECTIONS. SEE ARCHITECTURAL PLANS.
DR1	LITHONIA	LDN6-AL02-SWW1-L06-WR-TRW-LD-MVOLT-UGZ-90CRI	277	LED 1500 LM	19 W	3500 K	LED 6" RECESSED ROUND DOWNLIGHT. FIELD ADJUSTABLE LUMEN AND CCT. WHITE FLANGE WITH MATTE DIFFUSED FINISH. WIDE THROW DISTRIBUTION WITH 90 CRI. 0-10V DRIVER.	
DR2	LITHONIA	LDN6-AL03-SWW1-L06-WR-TRW-LD-MVOLT-GZ10-90CRI	277	LED 3000 LM	38 W	3500 K	LED 6" RECESSED ROUND DOWNLIGHT. FIELD ADJUSTABLE LUMEN AND CCT. WHITE FLANGE WITH MATTE DIFFUSED FINISH. WIDE THROW DISTRIBUTION WITH 90 CRI. 0-10V DRIVER.	
DR2E	LITHONIA	LDN6-AL03-SWW1-L06-WR-TRW-LD-MVOLT-GZ10-E10WCP-90CRI	277	LED 3000 LM	38 W	3500 K	LED 6" RECESSED ROUND DOWNLIGHT. FIELD ADJUSTABLE LUMEN AND CCT. WHITE FLANGE WITH MATTE DIFFUSED FINISH. WIDE THROW DISTRIBUTION WITH 90 CRI. 0-10V DRIVER.	
F4E	METALUX LITHONIA HE WILLIAMS	4SNLED-LD5-48SL-UNV-L835-CD-1-U-EL14W-AIRCRAFT CABLE ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E10W-WH-ZACVH M100 75R-4-LS0-8-35K-EM/10WLP-ACF/D48-DIM-UNV	277	LED 5000 LM	50 W	3500 K	AIRCRAFT CABLE SUSPENDED 48" LED STRIP LIGHT. EMERGENCY.	PROVIDE EMERGENCY BATTERY PACK. PROVIDE AIRCRAFT CABLE AND ALL REQUIRED MOUNTING HARDWARE. AIRCRAFT CABLE SHALL BE FIELD ADJUSTABLE.
FRB	LITHONIA	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT	277	LED 3000 LM	64 W	3500 K	2X2 LED FLAT PANEL WITH FIELD SELECTABLE OPTIONS,	
FRBE	LITHONIA	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT E10W	277	LED 3000 LM	64 W	3500 K	2X2 LED FLAT PANEL WITH FIELD SELECTABLE OPTIONS, EMERGENCY.	
FRC	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT	277	LED 5000 LM	36 W	3500 K	2X4 LED FLAT PANEL WITH FIELD SELECTABLE OPTIONS	
FRCE	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT E10W	277	LED 5000 LM	36 W	3500 K	2X4 LED FLAT PANEL WITH FIELD SELECTABLE OPTIONS, EMERGENCY.	PROVIDE WITH EMERGENCY BATTERY PACK.
HP1	LITHONIA	JCBL-15000LM-ACFR-MVOLT-GZ10-35K-80CRI-SCS12G16WSTOW5D-SCF240-DWHXD	277	LED 15000 LM	103 W	3500 K	ROUND HIGHBAY LIGHT, PENDANT MOUNT WITH STEEL HOOK AND 12'-0" CORD, FROSTED ACRYLIC REFLECTOR. 3KA SURGE PROTECTION, 55 DEGREE C. AMBIENT RATING, 16" ROUND.	PROVIDE WITH ADDITIONAL SAFETY CABLE.
HP1E	LITHONIA	JCBL-15000LM-ACFR-MVOLT-GZ10-35K-80CRI-SCS12G16WSTOW5D-E10WCP-SCF240-DWHXD	277	LED 15000 LM	103 W	3500 K	ROUND HIGHBAY LIGHT, PENDANT MOUNT WITH STEEL HOOK AND 12'-0" CORD, FROSTED ACRYLIC REFLECTOR. 3KA SURGE PROTECTION, 55 DEGREE C. AMBIENT RATING, 16" ROUND. EMERGENCY.	PROVIDE WITH ADDITIONAL SAFETY CABLE. PROVIDE WITH EMERGENCY BATTERY PACK.
HP2	LITHONIA	JCBL-18000LM-ACFR-MVOLT-GZ10-35K-80CRI-SCS12G16WSTOW5D-SCF240-DWHXD	277	LED 18000 LM	125 W	3500 K	ROUND HIGHBAY LIGHT, PENDANT MOUNT WITH STEEL HOOK AND 12'-0" CORD, FROSTED ACRYLIC REFLECTOR. 3KA SURGE PROTECTION, 55 DEGREE C. AMBIENT RATING, 16" ROUND.	PROVIDE WITH ADDITIONAL SAFETY CABLE.
HP2E	LITHONIA	JCBL-18000LM-ACFR-MVOLT-GZ10-35K-80CRI-SCS12G16WSTOW5D-SCF240-E10WCP-DWHXD	277	LED 18000 LM	125 W	3500 K	ROUND HIGHBAY LIGHT, PENDANT MOUNT WITH STEEL HOOK AND 12'-0" CORD, FROSTED ACRYLIC REFLECTOR. 3KA SURGE PROTECTION, 55 DEGREE C. AMBIENT RATING, 16" ROUND. EMERGENCY.	PROVIDE WITH ADDITIONAL SAFETY CABLE. PROVIDE WITH EMERGENCY BATTERY PACK.
LG4	MARK ARCH LTG	SL2L-LOP-4-FLP-TG-90CRI-35K-400LMFT-MIN10-MVOLT-ZT	277	LED 400 LM/FT	24 W	3500 K	4' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	
LG4E	MARK ARCH LTG	SL2L-LOP-4-FLP-TG-90CRI-35K-400LMFT-MIN10-MVOLT-E10WLCP-ZT	277	LED 400 LM/FT	24 W	3500 K	4' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR. EMERGENCY.	PROVIDE EMERGENCY BATTERY PACK.
LG12	MARK ARCH LTG	SL2L-LOP-12-FLP-TG-90CRI-35K-800LMFT-MIN10-MVOLT-ZT	277	LED 800 LM/FT	32 W	3500 K	12' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	
LG20	MARK ARCH LTG	SL2L-LOP-20-FLP-TG-90CRI-35K-800LMFT-MIN10-MVOLT-ZT	277	LED 800 LM/FT	32 W	3500 K	20' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	
LG20E	MARK ARCH LTG	SL2L-LOP-20-FLP-TG-90CRI-35K-800LMFT-MIN10-MVOLT-E10WLCP-ZT	277	LED 800 LM/FT	32 W	3500 K	20' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR. EMERGENCY.	PROVIDE QUANTITY OF EMERGENCY BATTERY PACKS AS REQUIRED TO ILLUMINATE THE ENTIRE FIXTURE.
LG28	MARK ARCH LTG	SL2L-LOP-28-FLP-TG-90CRI-35K-600LMFT-MIN10-MVOLT-ZT	277	LED 600 LM/FT	32 W	3500 K	28' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	
LG28E	MARK ARCH LTG	SL2L-LOP-28-FLP-TG-90CRI-35K-600LMFT-MIN10-MVOLT-E10WLCP-ZT	277	LED 600 LM/FT	32 W	3500 K	28' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR. EMERGENCY.	PROVIDE QUANTITY OF EMERGENCY BATTERY PACKS AS REQUIRED TO ILLUMINATE THE ENTIRE FIXTURE.
LGC	PRUDENTIAL LTG	BPRO2-LIN-FLSH-CHR-SO-4'-TMW-SAL-SC-UNV-X1-EDMX	277	LED 400 LM/FT	24 W	3500 K	4' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, RGBW. SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	PROVIDE WITH RGBW DRIVERS, CONTROLLERS, SWITCHES, ETC.
LGCE	PRUDENTIAL LTG	BPRO2-LIN-FLSH-CHR-SO-4'-TMW-SAL-SC-UNV-X1-EDMX-EMHE	277	LED 400 LM/FT	24 W	3500 K	4' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, RGBW. SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR. EMERGENCY.	PROVIDE EMERGENCY BATTERY PACK. PROVIDE WITH RGBW DRIVERS, CONTROLLERS, SWITCHES, ETC.
LP4	MARK ARCH LTG	S2PD-LSL-4-MSL4-90CRI-35K-1000LMFT-SCT-MIN10-FLL-MVOLT-RALTBD-ZT-240A-RD CY-X-X	277	LED 1000 LM/FT	32 W	3500 K	4' LONG, 2" WIDE PENDANT LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	
LP4E	MARK ARCH LTG	S2PD-LSL-4-MSL4-90CRI-35K-1000LMFT-SCT-MIN10-FLL-MVOLT-RALTBD-E10WLCP-Z T-240A-RDCY-X-X	277	LED 1000 LM/FT	32 W	3500 K	4' LONG, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, SATIN TRANSMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR. EMERGENCY.	PROVIDE EMERGENCY BATTERY PACK.
LR	PRUDENTIAL LTG	BPRO2-LIN-FLSH-CHR-SO-AS SHOWN-TMW-SAL-SC-UNV-X1-EDMX-CORNERS AS SHOWN	277	LED 790 LM/FT	624 W	3500 K	CUSTOM PATTERN, 2" WIDE RECESSED LINEAR LED WITHIN GRID CEILING. 90 CRI. FLUSH, RGBW. SATIN TRANMISSIVE ACRYLIC LENS. PRECISION FORMED STEEL HIGH REFLECTANCE MATTE WHITE REFLECTOR.	PROVIDE CUSTOM PATTERN SHOWN ON DRAWINGS. DIMENSION FROM THE RCP PLANS. PROVIDE CORNERS AS SHOWN. PROVIDE WITH RGBW DRIVERS, CONTROLLERS, SWITCHES, ETC.
LRWW	PRUDENTIAL LTG	SL2L-104FT10-90GDO/90/90/90/90GFI-FLP-FL-90CRI-35K-800LMF-MIN1-MVOLT-ZT-MEZ233989	277	LED 800 LM/FT	80 W	3500 K	WALL TO WALL CUSTOM LENGTH, 2" WIDE RECESSED LINEAR LED WITHIN HARD CEILING. 90 CRI. FLUSH, SEAMLESS LENS. ETRUDED ALUMINUM TRIM, 20 GUAGE STEEL HOUSING	PROVIDE WALL TO WALL LENGTH WITH ALL MOUNTING ACCESSORIES. DIMENSION FROM THE RCP PLANS.
LSX	DADO LIGHTING	EHL275-6E-RGB35-1-TW4-R-S-PAT-CIR12D-FINISH-IN / R-DDMX-UNV	277	LED RGWB			IP65 OUTDOOR RATED CUSTOM FIXTURE. HIGH TRANSMISSIVE ACRYLIC LENS WITH MATTE WHITE FINISH. EXTRUDED ALUMINUM HOUSING WITH FULLY ENCAPSULATED LED BOARD. LED BOARD FACTORY MADE WHERE IT IS ATTACHED TO ALUMINUM HEAT SINK. LINEAR RUNS 2.75" WIDE X 2.25" DEEP WITH RIGHT/LEFT TURNS OF VARIOUS ANGLES AND 12" DIAMETER X 2.25" DEEP CIRCLES AT END. REMOTE MOUNTED POWER SUPPLIES WITH DRIVERS AND DMX DECODERS THAT ARE RDM ADDRESSABLE VIA DMX CONTROL SYSTEM BY OTHERS. EACH LINE INCLUDING CIRCLE END TO BE ADDRESSED INDIVIDUALLY FROM OTHER LINES.	PROVIDE SHOP DRAWINGS DENOTING LENGTHS AND LOCATIONS OF DEVICES, CONNECTION POINTS, AND WIRING DIAGRAMS PRIOR TO INSTALLATION.
PR	BROWNLEE LIGHTING	7490-24-XX-H30-S12-35K-AC2	277	LED 3250 LM	31 W	3500 K	4" SUSPENDED LED CYLINDER EXTERIOR STEM MOUNTED PENDANT. 12" STEM LENGTH, 4.13" DIAMETER CYLINDER, 24" CYLINDER DIFFUSER LENGTH, WHITE ACRYLIC DIFFUSER, DURABLE POWDER COAT FINISH.	PROVIDE BATTERY PACK WHERE NOTED.
W4W	METALUX LITHONIA HE WILLIAMS	4SNLED-LD5-48SL-UNV-L835-CD-1-U-EL14W ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E10W-WH 75R-4-LS0-8-35K-EM/10WLP-D48-DIM-UNV	277	LED 3000 LM	28 W	4000 K	4' WALL MOUNTED 48" LED STRIP LIGHT. EMERGENCY.	LOCATE ABOVE THE DOOR
WP3H	LITHONIA	WDGE3 LED P3 40K 80CRI R3 MVOLT SRM DDBXD	277	LED 9250LM	52 W	4000 K	WALL PACK, DARK BRONZE, TYPE 3 DISTRIBUTION, UL LISTED FOR WET LOCATION, 18"W X 8"D X 9"H SURFACE MOUNTED TRIANGULAR SHAPE. DIE-CAST ALUMINUM HOUSING. IP65 RATED WITH THERMOSET POWDER COAT FINISH FOR CORROSION RESISTANCE. 6KV SURGE PROTECTION RATED. ACRYLIC LENS	
WP3L	LITHONIA	WDGE2 LED P2 40K 80CRI T3M MVOLT SRM E10WH DDBXD	277	LED 3000LM	52 W	4000 K	WALL PACK, DARK BRONZE, TYPE 3 DISTRIBUTION, UL LISTED FOR WET LOCATION, 12"W X 7"D X 9"H SURFACE MOUNTED TRIANGULAR SHAPE. DIE-CAST ALUMINUM HOUSING. IP65 RATED WITH THERMOSET POWDER COAT FINISH FOR CORROSION RESISTANCE. 6KV SURGE PROTECTION RATED. ACRYLIC LENS	PROVIDE WITH EMERGENCY BATTERY PACK.
XC	LITHONIA HE WILLIAMS SURE-LITES COLUMBIA	EDGR-1/2-RW-EL	277	LED RED	5 W	3500 K	CEILING MOUNTED, SINGLE/DOUBLE FACE, RECESSED EDGE LIT RED ON WHITE EXIT SIGN WITH BRUSHED ALUMINUM FINISH. FIELD ADJUSTABLE DIRECTIONAL CHEVRONS. EMERGENCY	INCLUDE 2ND FACE WHERE SHADED ON THE FLOOR PLAN. PROVIDE DIRECTIONAL ARROWS WHERE INDICATED ON THE FLOOR PLAN.
XE	LITHONIA HE WILLIAMS SURE-LITES COLUMBIA	EDG-1/2-RW-EL	277	LED RED	5 W	3500 K	WALL MOUNTED, SINGLE/DOUBLE FACE, EDGE LIT RED ON WHITE EXIT SIGN WITH BRUSHED ALUMINUM FINISH. FIELD ADJUSTABLE DIRECTIONAL CHEVRONS. EMERGENCY	
XP	LITHONIA HE WILLIAMS SURE-LITES COLUMBIA	EDGR-1/2-RW-EL-ELA US12	277	LED RED	5 W	3500 K	PENDANT MOUNTED, SINGLE/DOUBLE FACE, EDGE LIT RED ON WHITE EXIT SIGN WITH BRUSHED ALUMINUM FINISH. FIELD ADJUSTABLE DIRECTIONAL CHEVRONS. EMERGENCY	PROVIDE CONDUIT STEM AND PENDANT STEM AS REQUIRED FOR PROPER ELEVATION WITHIN SPACE, IN BETWEEN BAFFLES, ETC. INCLUDE 2ND FACE WHERE SHADED ON THE FLOOR PLAN. PROVIDE DIRECTIONAL ARROWS WHERE INDICATED ON THE FLOOR PLAN.

LIGHTING CONTROL GENERAL PANEL NOTES:

A. PROGRAMMED TO AUTOMATICALLY TURN OFF LIGHTS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.

B. LIGHTING CONTROL PANEL SHALL HAVE A MINIMUM 7-DAY CLOCK.

C. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.

D. LIGHTING CONTROL PANEL SHALL INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR AT LEAST 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.

E. EACH LIGHTING CONTROL PANEL SHALL HAVE A PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR AT LEAST 10 HOURS, IF PROGRAM IS INTERRUPTED.

F. PROVIDE EQUAL SECTIONS WHERE MULTIPLE CABINETS ARE REQUIRED.

G. PROVIDE RELAYS AMP RATINGS FOR THE LOAD BEING SERVED. PROVIDE MULTIPOLE RELAYS AS REQUIRED FOR CIRCUIT VOLTAGE CONFIGURATION.

H. ALL OVERRIDE SWITCHES SHALL BE LABELED WITH THE "DESCRIPTION " AREA, ROOM OR SPACE SERVED. OVERRIDE SWITCHES SHALL BE A MANUAL CONTROL, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTORL THE LIGHTING FOR AN AREA NOT LARGER THAN 5,000 S.F. WITH EXCEPTION TO MALL CONCOURSES, AUDITORIUMS, SALES AREAS, MANUFACTURING FACILITIES AND SPORTS ARENAS (REFER TO 2024 IECC, C405.2.2.1).

LIGHTING CONTROL GENERAL PANEL NOTES (CONT.):

I. PROVIDE DRY CONTACTS FOR A RELAY TO CONNECT FIRE ALARM WIRING INTERFACE. ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT.

J. PROVIDE PHOTOCELL/PHOTO SENSOR CONNECTED TO THE LCP. PROVIDE A SINGLE OVERRIDE SWITCH OR BUTTON FOR DAYTIME TESTING.

K. CONFIRM ON/OFF SCHEDULING WITH THE OWNER. LIGHTING CONTROL PANEL SHALL BE PROGRAMMED FOR THE OWNER PRIOR TO TURNOVER. FOR SPACES WHERE SCHEDULES ARE NOT AVAILABLE, TIME SWITCH CONTROLS ARE PROGRAMMED TO A SCHEDULE THAT TURNS OFF LIGHTS NOT LESS THAN 12 HOURS PER DAY.

L. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE SHOP DRAWINGS OF ALL LOCATIONS OF DEVICES AND EQUIPMENT ON THE FLOOR PLAN FOR SUBMITTAL REVIEW AND FOR INSTALLATION PURPOSE. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE DETAILED WIRING DIAGRAMS FOR ALL DEVICES AND EQUIPMENT WITHIN LCP SYSTEM.

M. PROVIDE SPARE RELAYS AS NOTED.

N. ALL RELAYS FOR EMERGENCY LIGHTING CIRCUITS SHALL BE UL 924 LISTED. PROVIDE COMPLETE SEPERATION FROM NORMAL CIRCUITS PER NEC 700.10. ARRANGE RELAYS AND PROVIDE BARRIERS AS REQUIRED TO MEET THIS REQUIREMENT.

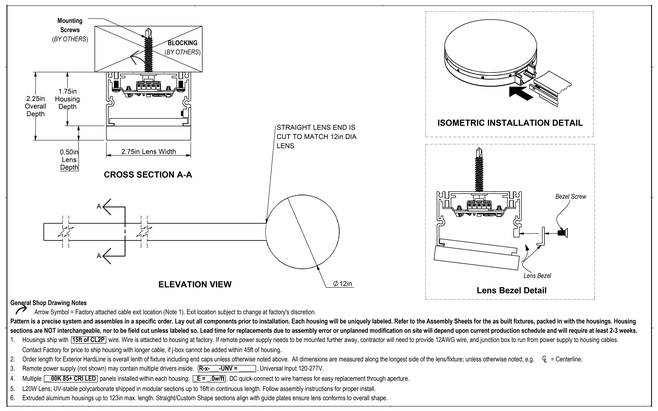
O. CONNECT LIGHTING CONTROL PANELS TOGETHER FOR COMPATIBILITY OF SCHEDULING AND INTERFACE BETWEEN ONE SINGLE PHOTOCELL.

LUMINAIRE SCHEDULE NOTES:

1. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED. ALL SUBSTITUTION REQUEST SHALL BE SUBMITTED FOR REVIEW PRIOR TO BID.
2. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
3. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIED, MOUNTING HARDWARE, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
4. EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND REQUIRED.
5. PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRIC CODE.
6. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE AND END PIECES AS REQUIRED FOR A COMPLETE INSTALLATION.
7. FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGERS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC. MAINTAIN UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT THE MECHANICAL AREA.

LUMINAIRE SCHEDULE NOTES (CONT.):

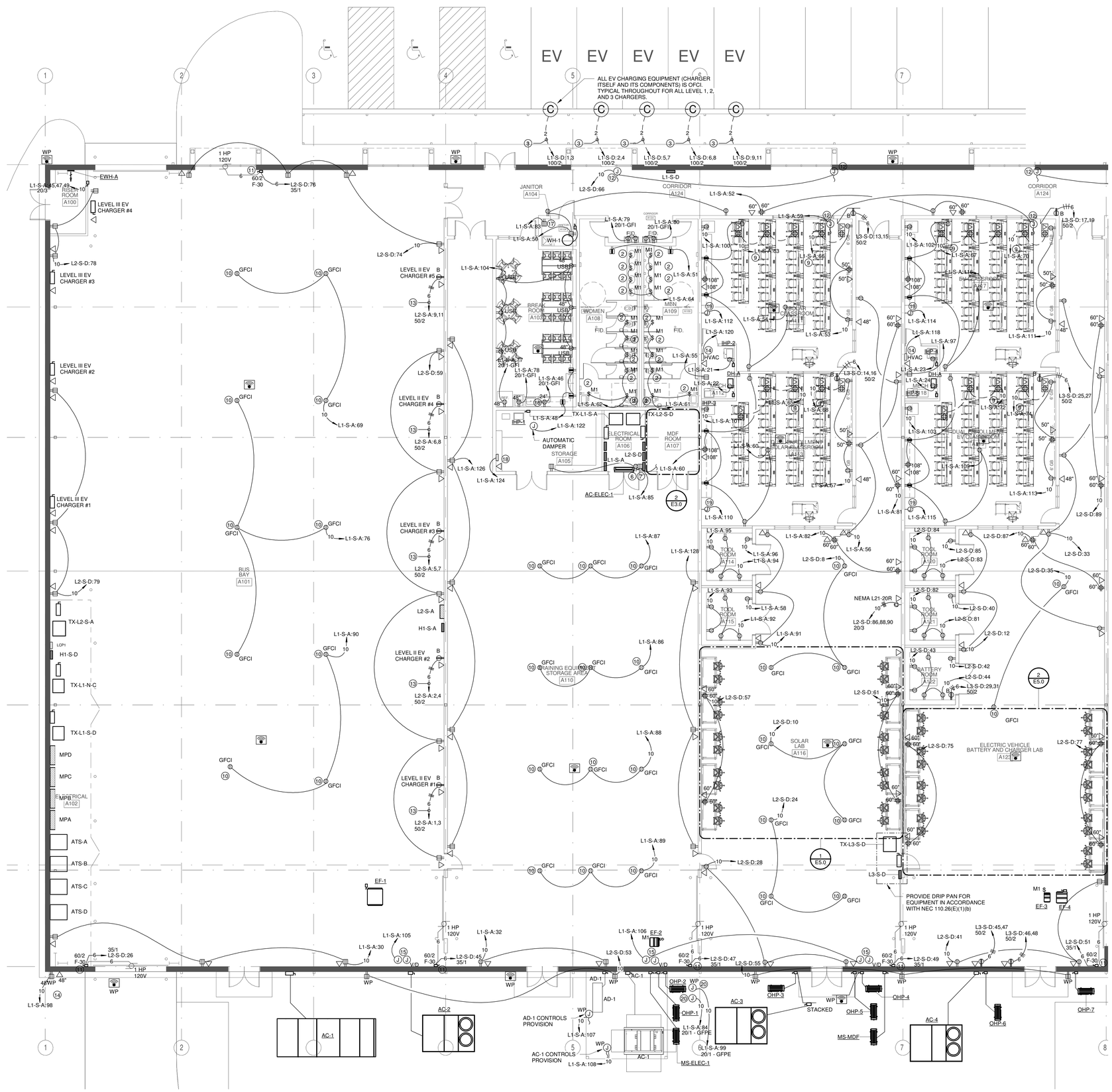
8. PENDANT MOUNTED LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED MY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRES SPECIFIED.
9. EMERGENCY BATTERY PACKS FOR LED LUMINAIRES SHALL OPERATE FOR 90 MINUTES MINIMUM.
10. LED FIXTURES: TO INSURE A FIXTURE WILL PERFORM "AS ADVERTISED" ON A CUT SHEET, THE PUBLISHED SPECIFICATION SHALL BE SUPPORTED BY LM-79 TEST RESULTS. LED FIXTURES WHICH ARE BUILT USING LED'S SHALL HAVE SUCCESSFULLY PASSED LM-80. LED'S SHALL YIELD A LM-80 RESULT OF A MINIMUM OF 70% OF THE ORIGINAL LIGHT OUTPUT OF THE LED STILL BEING DELIVERED AFTER 50,000 HOURS OF OPERATION. THE POWER SUPPLY UNIT (DRIVER) SHALL HAVE 150,000 HOURS MTBF (MEAN TIME BETWEEN FAILURES). AN INTEGRATED BATTERY BACKUP SOLUTION FOR THE LED FIXTURE IS REQUIRED. REPLACEABLE LED BOARDS TO ALLOW FIXTURE UPGRADE.
11. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPATIBLE INSTALLATION.
12. PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING LED DRIVERS, PROVIDE FUSED SIZED FOR RATING OF LED DRIVER.
13. POLE MANUFACTURER SHALL COORDINATE WITH LUMINAIRE MANUFACTURER TO PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FIXTURE. PROVIDE APPROPRIATE MOUNTING HARDWARE, ANCHOR BOLTS, BOLT/BASEPLATE COVERS AND GROUNDING LUG. MANUFACTURER SHALL FURNISH AN ANCHOR BOLT TEMPLATE TO ENSURE PROPER MOUNTING AND LUMINAIRE ORIENTATION FOR CORRECT LIGHT DISTRIBUTION.
14. ALL LIGHTING CONTROL BUTTONS SHALL BE CUSTOMIZED, FACTORY PRINTED FOR LOCATION AND/OR OPERATION SUCH AS "ON", "OFF", "DIM", "CLASSROOM", "BOARD", ETC. FIELD PRINTED LABELS ON THE BUTTONS WILL NOT BE ACCEPTABLE.
15. PROVIDE ALL NECESSARY COSTS ASSOCIATED WITH RGBW AND GENERAL CONTROLS PROGRAMMING, START UP, AND OWNER TRAINING. PROVIDE SITE VISITS AS NECESSARY FROM TECHNICIANS FOR PROGRAMMING AND START UP TO INSTALL A COMPLETE FUNCTIONAL SYSTEM. PROVIDE A MINIMUM OF (1) ON SITE VISIT (AT LEAST 8 HOURS) FOR TRAINING.



General Shop Drawing Notes

Arrow Symbol = Factory attached cable exit location (Note 1). Exit location subject to change at factory's discretion.

**Pattern is a precise system and assemblies in a specific order. Lay out all components prior to installation. Each housing will be uniquely labeled. Refer to the Assembly Sheets for the as built fixtures, packed in with the housings. Housing sections are NOT interchangeable,

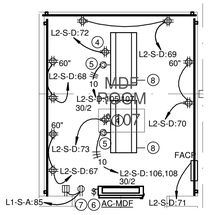


1 ELECTRICAL - POWER & VOICE/DATA - FLOOR PLAN - AREA A

1/8" = 1'-0"

SHEET KEYNOTES: #

1. DISCONNECTING MEANS INTEGRAL TO EQUIPMENT/PROVIDED BY MECHANICAL THROUGH THE UNIT.
2. PLUMBING AUTOMATIC FLUSH AND SINK POWER. PROVIDE DISCONNECTING MEANS ABOVE ACCESSIBLE CEILING. COORDINATE WITH PLUMBING EQUIPMENT SUBMITTALS FOR WIRING, EXACT LOCATION, CONNECTIONS, ETC. PRIOR TO ROUGH-IN.
3. FOR LEVEL II EV CHARGER. CONFIRM EXACT LOCATION AND SPECIFICATION PRIOR TO INSTALL. WIRING SHALL BE PROVIDED FOR A MAXIMUM OF AN 80 AMP, 208V, 1PH CIRCUIT. CONFIRM AMPERAGE OF EQUIPMENT PRIOR TO TERMINATING WIRING. CIRCUIT THROUGH EXISTING 2" CONDUIT. EXTEND 2" CONDUIT TO MAKE FINAL TERMINATIONS AS REQUIRED.
4. COORDINATE LOCATION WITH DATA RACK. RECEPTACLE SHALL BE MOUNTED ABOVE RACK FOR DATA RACK CONNECTION.
5. NEMA L14-30R. CONFIRM NEMA CONFIGURATION WITH OWNER EQUIPMENT. RECEPTACLE SHALL BE MOUNTED ABOVE RACK FOR DATA RACK CONNECTION.
6. POWER FOR INDOOR HEAT PUMP UNITS IS DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT. PROVIDE NEW DISCONNECT AND CIRCUIT BACK TO PANEL.
7. FOR HVAC UNIT CONDENSATE PUMP. LOCATE NEXT TO AND AT THE HEIGHT OF THE PUMP. COORDINATE WITH MECHANICAL CONTRACTOR.
8. 4-POST, 19" WIDTH, 7' HEIGHT EQUIPMENT RACK WITH POWER DISTRIBUTION UNIT.
9. CIRCUIT POWER THROUGH EXISTING 1" CONDUIT. ROUTE LOW VOLTAGE CABLES THROUGH EXISTING 2" CONDUIT. EXTEND CONDUITS TO MAKE FINAL TERMINATIONS AS REQUIRED.
10. FOR CORD AND CABLE REEL. COORDINATE EXACT MOUNTING LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN. PROVIDE HUBBELL HBL45123GF20 45FT WHITE REEL WITH 12/3 SJO CORD WITH PORTABLE OUTLET BOX AND (1) DUPLEX RECEPTACLE WITH A GFCI MODULE AT EACH CEILING OUTLET. PROVIDE ALL MOUNTING ACCESSORIES REQUIRED FOR CORD AND CABLE.
11. FOR MOTORIZED DOOR. PROVIDE WIRING AND CONTROL WIRING AS REQUIRED BY MANUFACTURER. COORDINATE WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
12. FOR MOTORIZED BLINDS. COORDINATE CONNECTION POINT WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
13. PROVIDE NEUTRAL CONDUCTOR FOR FUTURE PROVISION.
14. IRRIGATION CONTROLLER PROVISION. COORDINATE LOCATION WITH LANDSCAPING PRIOR TO INSTALLATION.
15. 120V CONTROLS AND (1) CAT6 DATA FOR HVAC. COORDINATE FINALIZED LOCATION OF HVAC CONTROL PANEL WITH MECHANICAL CONTROLS CONTRACTOR.
16. FOR MICROWAVE. VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
17. FOR CIRCULATION PUMP. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.
18. COORDINATE FINALIZED LOCATION OF HVAC CONTROL PANEL WITH MECHANICAL CONTROLS CONTRACTOR. PROVIDE POWER AND DATA.
19. 120V PROVISION FOR AV AMPLIFIER. COORDINATE LOCATION WITH OWNER'S VENDOR PRIOR TO ROUGH-IN.
20. HEAT TRACE FOR COMPRESSED AIR PIPING - VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR



2 ELECTRICAL - ENLARGED FLOOR PLAN - MDF

1/4" = 1'-0"

GENERAL NOTES:

A. CONDUITS SHALL NOT PASS THROUGH RATED ROOMS. COORDINATE ROUTING WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS PRIOR TO ROUGH-IN.

B. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS.

C. SUPPORT OUTLET BOXES IN STUD PARTITIONS WITH SUPPORT THAT SPANS BETWEEN TWO STUDS.

D. SUPPORT ALL FLEXIBLE CONDUIT WITHIN 12" OF THE ELECTRICAL CONNECTION POINT OF THE EQUIPMENT.

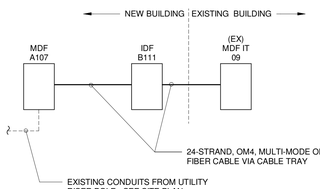
E. PROVIDE ALL UNISTRUT AS REQUIRED FOR MOUNTING OF ELECTRICAL EQUIPMENT CORRESPONDING TO MECHANICAL AND PLUMBING EQUIPMENT.

F. VERIFY FINAL LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE CLEARANCES PER NEC 110.26 FOR ALL ELECTRICAL EQUIPMENT.

G. IT IS THE RESPONSIBILITY OF EACH THE GC AND THE EC TO COORDINATE DISCONNECT LOCATION WITH ACTUAL INSTALLED PIPING, DUCTS, UNIT, ETC. DISCONNECT MUST HAVE CLEAR ACCESS IN ACCORDANCE WITH NEC 110.26.

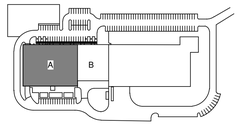
H. PROVIDE UNISTRUT RACK AS REQUIRED FOR DEVICES IN AREAS WITH NO CEILINGS TO WORK AROUND DUCTWORK, PIPING, CABLE TRAY, ETC. DO NOT SUPPORT FROM OTHER SYSTEMS (HVAC, PIPING, FIRE PROTECTION, ETC.)

I. ALL LOW VOLTAGE CABLES SHALL BE PLENUM RATED. NO EXCEPTIONS.



FIBER RISER DIAGRAM

NO SCALE



KEY PLAN

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(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

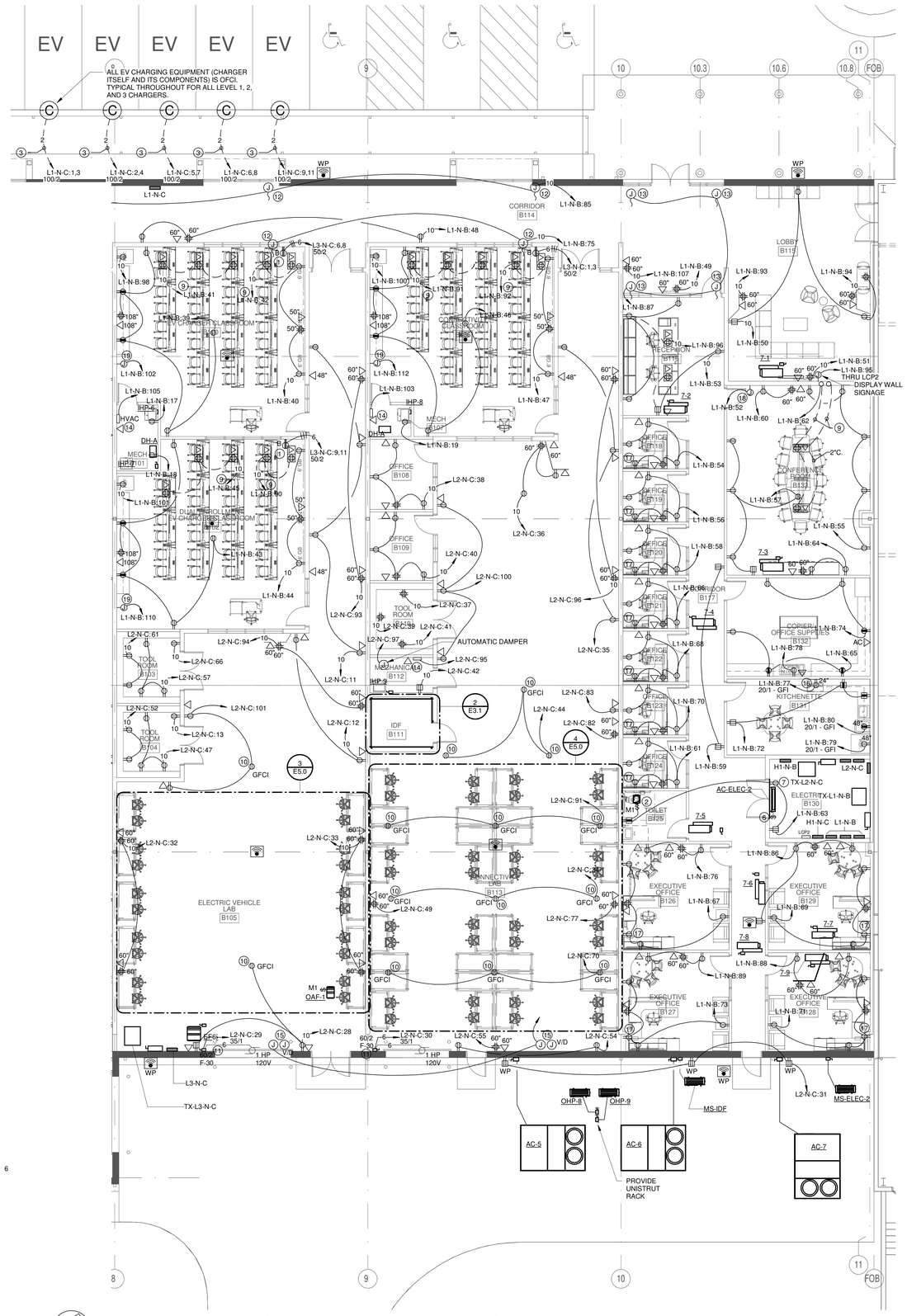
SHEET TITLE: ELECTRICAL - POWER & VOICE/DATA FLOOR PLAN - AREA A

ALABAMA LICENSED PROFESSIONAL ENGINEER 12/19/2025 ALFRED MICHAEL MADDUX III

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

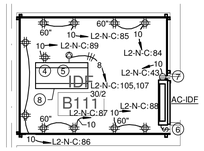
JOB NO. 24-40C

SHEET NO: E3.0



1 ELECTRICAL - POWER & VOICE/DATA - FLOOR PLAN - AREA B

1/8" = 1'-0"



2 ELECTRICAL - ENLARGED FLOOR PLAN - IDF

1/4" = 1'-0"

SHEET KEYNOTES: (#)

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2. PLUMBING AUTOMATIC FLUSH AND SINK POWER. PROVIDE DISCONNECTING MEANS ABOVE ACCESSIBLE CEILING. COORDINATE WITH PLUMBING EQUIPMENT SUBMITTALS FOR WIRING, EXACT LOCATION, CONNECTIONS, ETC. PRIOR TO ROUGH-IN.
3. FOR LEVEL II EV CHARGER. CONFIRM EXACT LOCATION AND SPECIFICATION PRIOR TO INSTALL. WIRING SHALL BE PROVIDED FOR A MAXIMUM OF AN 80 AMP, 208V, 1PH CIRCUIT. CONFIRM AMPERAGE OF EQUIPMENT PRIOR TO TERMINATING WIRING. CIRCUIT THROUGH EXISTING 2" CONDUIT. EXTEND 2" CONDUIT TO MAKE FINAL TERMINATIONS AS REQUIRED.
4. COORDINATE LOCATION WITH DATA RACK. RECEPTACLE SHALL BE MOUNTED ABOVE RACK FOR DATA RACK CONNECTION.
5. NEMA L14-30R. CONFIRM NEMA CONFIGURATION WITH OWNER EQUIPMENT. RECEPTACLE SHALL BE MOUNTED ABOVE RACK FOR DATA RACK CONNECTION.
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8. 4-POST, 19" WIDTH, 7' HEIGHT EQUIPMENT RACK WITH POWER DISTRIBUTION UNIT.
9. CIRCUIT POWER THROUGH EXISTING 1" CONDUIT. ROUTE LOW VOLTAGE CABLES THROUGH EXISTING 2" CONDUIT. EXTEND CONDUITS TO MAKE FINAL TERMINATIONS AS REQUIRED.
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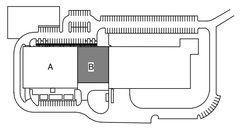
11. FOR MOTORIZED DOOR. PROVIDE WIRING AND CONTROL WIRING AS REQUIRED BY MANUFACTURER. COORDINATE WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
12. FOR MOTORIZED BLINDS. COORDINATE CONNECTION POINT WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
13. FOR LOBBY REMOVEABLE BACKLIT PANELS. COORDINATE CONNECTION POINT WITH EQUIPMENT VENDOR. SEE ARCHITECTURAL RCP AND DETAIL FOR LOCATIONS.
14. COORDINATE FINALIZED LOCATION OF HVAC CONTROL PANEL WITH MECHANICAL CONTROLS CONTRACTOR. PROVIDE POWER AND DATA.
15. 120V CONTROLS AND (1) CAT6 DATA FOR HVAC. COORDINATE FINALIZED LOCATION OF HVAC CONTROL PANEL WITH MECHANICAL CONTROLS CONTRACTOR.
16. FOR MICROWAVE. VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
17. LOCATE RECEPTACLE FOR CONNECTION TO TASK LIGHTING. COORDINATE WITH FURNITURE VENDOR.
18. 120V PROVISION FOR AV AMPLIFIER. COORDINATE LOCATION WITH OWNER'S VENDOR PRIOR TO ROUGH-IN.



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BEVILL STATE COMMUNITY COLLEGE

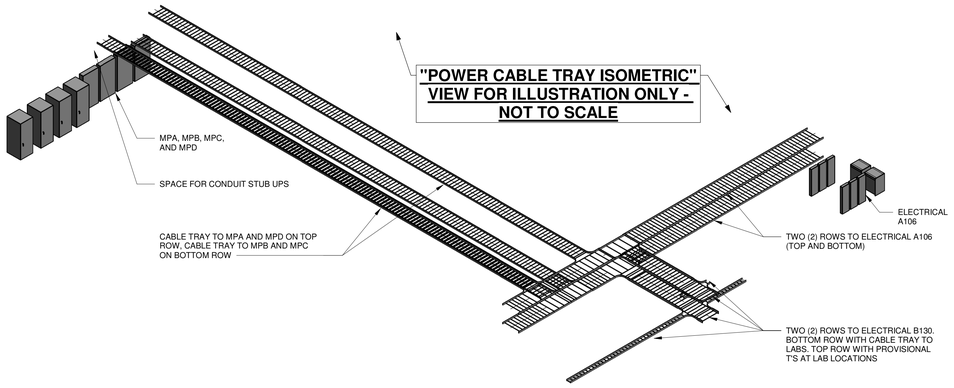
SHEET TITLE: ELECTRICAL - POWER & VOICE/DATA FLOOR PLAN - AREA B

ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 JEFFREY MICHAEL MARQUARDT

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: E3.1



2 POWER CABLE TRAY ISOMETRIC

GENERAL NOTES:

A. NO OTHER CIRCUITS SHALL BE RUN ON THE CABLE TRAY SYSTEM EXCEPT THOSE SPECIFICALLY NOTED.

B. ALL TC CABLE SHALL BE INSTALLED PER NEC ARTCILE 336.

C. ALL CABLE TRAY INSTALLATION SHALL BE INSTALLED PER ARTICLE 392 OF THE NEC.

D. COORDINATE LOCATIONS OF CABLE TRAY WITH DUCTS, SPRINKLERS, PIPING, CONDUITS, ETC. ALL CABLE TRAY SHALL BE INSTALLED ABOVE THE DUCTS, SPRINKLERS, AND PIPING.

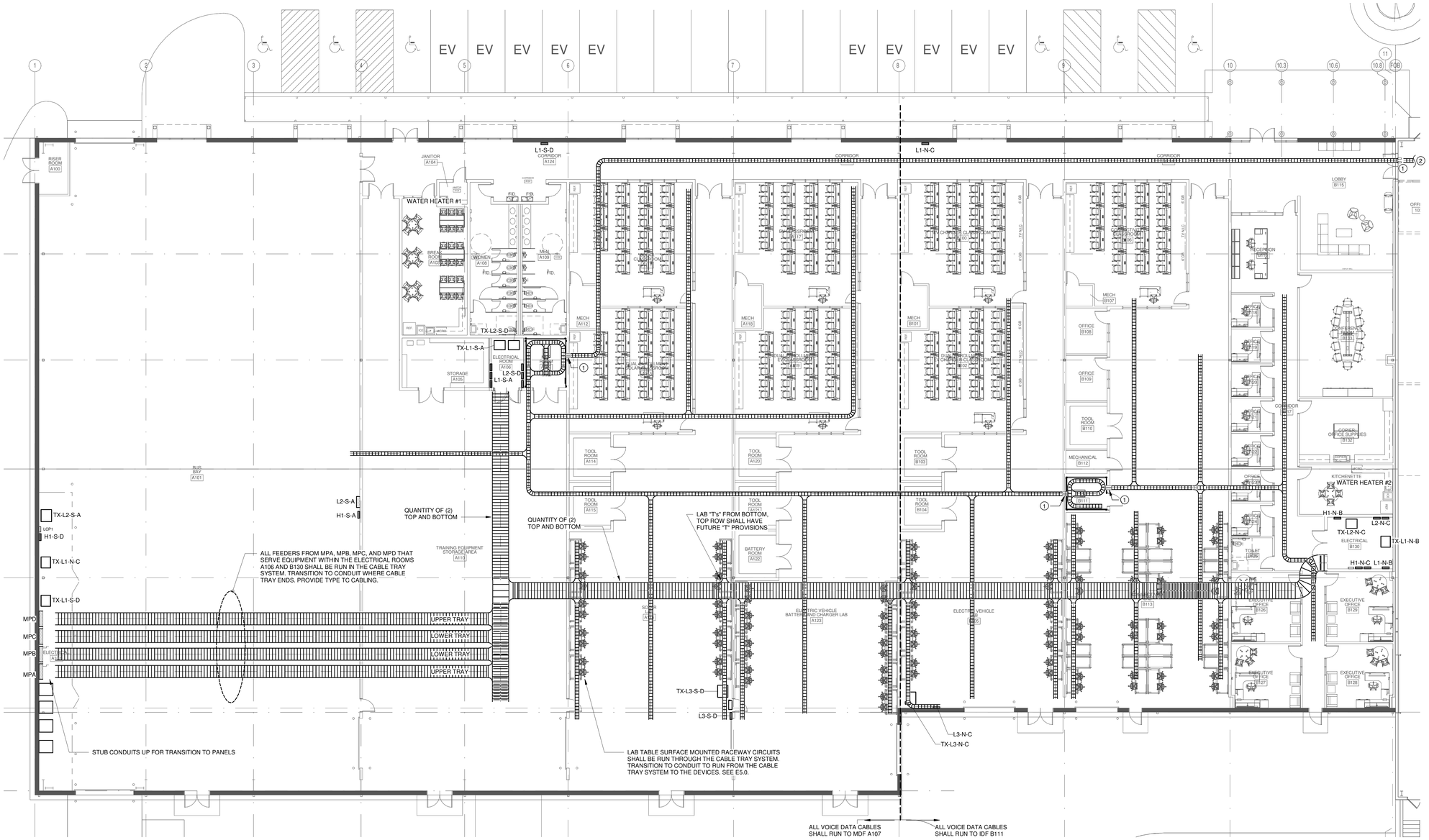
E. PROVIDE ALL SUPPORTS FOR CABLE TRAY SYSTEM. SUPPORT FROM THE STRUCTURE.

F. PROVIDE ALL GROUNDING AND BONDING JUMPERS AS REQUIRED FOR BONDING ALL METAL PARTS OF THE CABLE TRAY SYSTEM.

SHEET KEYNOTES: #

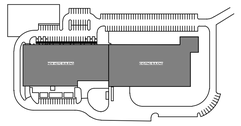
1. PROVIDE TWO (2) 4" FIRE RATED, RE-ENTERABLE, CONDUIT SLEEVES OR RE-ENTERABLE, UL LISTED SYSTEM FOR HORIZONTAL STRUCTURED CABLING.

2. PROVIDE CABLE TRAY TO EXISTING IT ROOM "IT 09" FOR NEW FIBER. USE OF EXISTIN CABLE TRAY SYSTEM MAY ONLY BE USED WHERE THERE IS SUFFICIENT SPACE AND FROM APPROVAL OF OWNER'S IT DEPARTMENT. SEE SITE PLAN FOR LOCATION. CONTRACTOR SHALL VISIT SITE PRIOR TO BID FOR ALL EXISTING CONDITIONS.



1 ELECTRICAL - POWER & VOICE/DATA - CABLE TRAY PLAN

3/32" = 1'-0"



KEY PLAN

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069

1 ELECTRICAL - AUXILIARY - FLOOR PLAN - AREA A

1/8" = 1'-0"

SHEET KEYNOTES (#)

1. FIRE ALARM WIRING INTERFACE TO LCP OR LIGHTING MODULE (RESPECTIVELY). ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT. SEE DETAIL.
2. COORDINATE TAMPER AND FLOW SWITCHES WITH SPRINKLER SYSTEM. SEE "FIRE SERVICE ENTRY - BUILDING" DETAIL ON FP SHEETS.

FIRE ALARM GENERAL NOTES

A. SOUND LEVELS SHALL BE 15 dBA ABOVE AMBIENT SOUND LEVEL THROUGHOUT THE ENTIRE BUILDING.

B. ALL FIRE ALARM CABLING AND DEVICES SHALL BE IN CONDUIT. SEE SPECIFICATIONS.

C. NEW ADDITION AND EXISTING BUILDING SHALL BE NETWORKED TOGETHER.

D. FIRE ALARM MANUFACTURER SHALL BE JCI SIMPLEX TO MATCH EXISTING SYSTEM AND NETWORK.

E. EXISTING PANEL IS A SIMPLEX 4010. PROVIDE ALL NETWORK INTERFACE MODULES AND REQUIRED COMPONENTS TO NETWORK THE TWO FIRE ALARM CONTROLS PANELS TOGETHER. PROVIDE OM4 MULTIMODE FIBER OPTIC CABLE WITH CONNECTORS COMPATIBLE WITH EXISTING SIMPLEX PANEL (OR AS RECOMMENDED BY FIRE ALARM MANUFACTURER.) SEE E1.0 FOR APPROXIMATE LOCATION.

F. ALL FIRE ALARM JUNCTION BOXES SHALL BE FACTORY PAINTED RED AND IDENTIFIED. PAINTING IN THE FIELD WILL NOT BE ACCEPTBLE .

G. FIRE PROTECTION SYSTEM IS ZONED. ALL FIRE ALARM NOTIFICATION, INITIATION, AND SIGNAL LINE CIRCUITS SHALL BE RUN TO FOLLOW ZONING PLAN. A SINGLE FAULT ON A PATHWAY CONNECTED TO THE ADDRESSABLE DEVICES SHALL NOT CAUSE THE LOSS OF THE DEVICES IN MORE THAN ONE ZONE. SEE FIRE PROTECTION ZONE DRAWINGS.

H. FOR ALL HVAC DUCT DETECTORS, PROVIDE A REMOTE TEST SWITCH(RTS)

I. PROVIDE DACT AND ALL REQUIRED COMPONENTS FOR FIRE ALARM CALLOUT.

AUXILIARY GENERAL NOTES

GENERAL AUXILIARY NOTES:

A. LOW VOLTAGE CABLING (EXCLUDING FIRE ALARM) SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING THROUGH CABLE TRAY AND J-HOOKS. PROVIDE J-HOOKS TO ALL AUXILIARY OUTLETS SO THAT NO CABLE IN UNSUPPORTED MORE THAN 5'-0". ALL AUXILIARY CABLING WITHIN WALLS SHALL BE IN CONDUIT. ALL EXPOSED AUXILIARY CABLING SHALL BE IN CONDUIT OR CABLE TRAY SYSTEM.

B. EC SHALL PROVIDE PULLSTRINGS, CONDUIT BUSHINGS, AND BOX COVERS FOR ALL EMPTY CONDUITS/BOXES.

C. PRIOR TO INSTALLATION, CONTRACTOR SHALL HAVE A PRE-INSTALLATION MEETING WITH THE OWNER, OWNER'S VENDOR, AND ARCHITECT TO CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS FOR ALL AUXILIARY DEVICES.

D. PROVIDE (2) CAT6 CABLES TO ALL SECURITY CAMERAS TO NEAREST TBB.

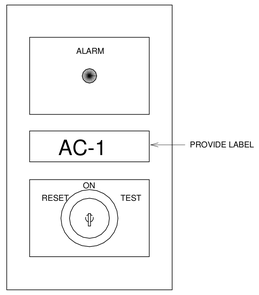
E. PROVIDE UNISTRUT RACK AS REQUIRED FOR DEVICES IN AREAS WITH NO CEILINGS TO WORK AROUND DUCTWORK, PIPING, CABLE TRAY, ETC. DO NOT SUPPORT FROM OTHER SYSTEMS (HVAC, PIPING, FIRE PROTECTION, ETC.)

F. ALL LOW VOLTAGE CABLES SHALL BE PLENUM RATED. NO EXCEPTIONS.

AUXILIARY SYSTEM RESPONSIBILITY MATRIX

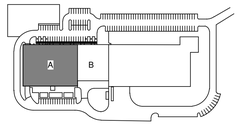
MATRIX IS A GUIDELINE FOR SYSTEMS RESPONSIBILITIES. COORDINATE WITH OWNER AND ALL TRADES WHEN DEVELOPING SHOP DRAWINGS.

		ELECTRICAL CONTRACTOR			OWNER	
		FURNISH PER SPECIFICATIONS	INSTALL AS SHOWN ON PLANS	PRICING COVER VIA ALL OWNER SEE ARCHITECTURAL SPECIFICATIONS	FURNISH EQUIPMENT PER OWNER'S SPECIFICATIONS	INSTALL RESPONSIBILITIES COORDINATED BY OWNER
STRUCTURE CABLING	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN/NOTED	X	X			
	CABLING	X	X			
	TELEPHONE BACKBOARDS AND GROUNDING BUS BARS	X	X			
	DATA RACKS AND PATCH PANELS AS SPECFIFIED	X	X			
	WIRLESS ACCESS POINTS		X		X	
	PATCH CABLES	X	X			
	DATA/NETWORK SWITCHES AND POE SWITCHES		X		X	
	DATA RACKS	X	X			
SECURITY SYSTEMS	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN/NOTED	X	X			
	DATA CABLING	X	X			
	ACCESS CONTROL EQUIPMENT		X	X		
	ELECTRIFIED DOOR HARDWARE	SEE ARCHITECTURAL DRAWINGS/SPECFICATIONS				
	CCTV CAMERA EQUIPMENT, INCLUDING CAMERAS, DVRS AND SCREENS		X	X		
FIBER	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN/NOTED	X	X			
	FIBER CABLING	X	X			
	FIBER CONNECTORS	X	X			
AUDIO VISUAL SYSTEMS	RACEWAY - CONDUIT/J-HOOKS/CABLE TRAY AS SHOWN/NOTED	X	X			
	DEVICES		X		X	
	AV EQUIPMENT (HEAD END)		X	X		
	WIRING/CABLING		X	X		
PUBLIC ADDRESS SYSTEMS	RACEWAY - CONDUIT/J-HOOKS/CABLE TRAY AS SHOWN/NOTED	X	X			
	DEVICES		X	X		
	AV EQUIPMENT (HEAD END)		X	X		
	WIRING/CABLING		X	X		



DUCT DETECTOR REMOTE TEST STATION

SCALE: NOT TO SCALE



KEY PLAN

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER

PACKAGE C: INTERIOR FIT OUT

3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501

BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE: ELECTRICAL - AUXILIARY FLOOR PLAN - AREA A

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

SHEET NO: E4.0

SHEET KEYNOTES (#)

1. FIRE ALARM WIRING INTERFACE TO LCP OR LIGHTING MODULE (RESPECTIVELY). ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT. SEE DETAIL.

FIRE ALARM GENERAL NOTES

A. SOUND LEVELS SHALL BE 15 dBA ABOVE AMBIENT SOUND LEVEL THROUGHOUT THE ENTIRE BUILDING.

B. ALL FIRE ALARM CABLING AND DEVICES SHALL BE IN CONDUIT. SEE SPECIFICATIONS.

C. NEW ADDITION AND EXISTING BUILDING SHALL BE NETWORKED TOGETHER.

D. FIRE ALARM MANUFACTURER SHALL BE JCI SIMPLEX TO MATCH EXISTING SYSTEM AND NETWORK.

E. EXISTING PANEL IS A SIMPLEX 4010. PROVIDE ALL NETWORK INTERFACE MODULES AND REQUIRED COMPONENTS TO NETWORK THE TWO FIRE ALARM CONTROLS PANELS TOGETHER. PROVIDE OM4 MULTIMODE FIBER OPTIC CABLE WITH CONNECTORS COMPATIBLE WITH EXISTING SIMPLEX PANEL (OR AS RECOMMENDED BY FIRE ALARM MANUFACTURER.) SEE E1.0 FOR APPROXIMATE LOCATION.

F. ALL FIRE ALARM JUNCTION BOXES SHALL BE FACTORY PAINTED RED AND IDENTIFIED. PAINTING IN THE FIELD WILL NOT BE ACCEPTBLE .

G. FIRE PROTECTION SYSTEM IS ZONED. ALL FIRE ALARM NOTIFICATION, INITIATION, AND SIGNAL LINE CIRCUITS SHALL BE RUN TO FOLLOW ZONING PLAN. A SINGLE FAULT ON A PATHWAY CONNECTED TO THE ADDRESSABLE DEVICES SHALL NOT CAUSE THE LOSS OF THE DEVICES IN MORE THAN ONE ZONE. SEE FIRE PROTECTION ZONE DRAWINGS.

H. FOR ALL HVAC DUCT DETECTORS, PROVIDE A REMOTE TEST SWITCH(RTS)

I. PROVIDE DACT AND ALL REQUIRED COMPONENTS FOR FIRE ALARM CALLOUT.

AUXILIARY GENERAL NOTES

GENERAL AUXILIARY NOTES:

A. LOW VOLTAGE CABLING (EXCLUDING FIRE ALARM) SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING THROUGH CABLE TRAY AND J-HOOKS. PROVIDE J-HOOKS TO ALL AUXILIARY OUTLETS SO THAT NO CABLE IN UNSUPPORTED MORE THAN 5'-0". ALL AUXILIARY CABLING WITHIN WALLS SHALL BE IN CONDUIT. ALL EXPOSED AUXILIARY CABLING SHALL BE IN CONDUIT OR CABLE TRAY SYSTEM.

B. EC SHALL PROVIDE PULLSTRINGS, CONDUIT BUSHINGS, AND BOX COVERS FOR ALL EMPTY CONDUITS/BOXES.

C. PRIOR TO INSTALLATION, CONTRACTOR SHALL HAVE A PRE-INSTALLATION MEETING WITH THE OWNER, OWNER'S VENDOR, AND ARCHITECT TO CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS FOR ALL AUXILIARY DEVICES.

D. PROVIDE (2) CAT6 CABLES TO ALL SECURITY CAMERAS TO NEAREST TBB.

E. PROVIDE UNISTRUT RACK AS REQUIRED FOR DEVICES IN AREAS WITH NO CEILINGS TO WORK AROUND DUCTWORK, PIPING, CABLE TRAY, ETC. DO NOT SUPPORT FROM OTHER SYSTEMS (HVAC, PIPING, FIRE PROTECTION, ETC.)

F. ALL LOW VOLTAGE CABLES SHALL BE PLENUM RATED. NO EXCEPTIONS.

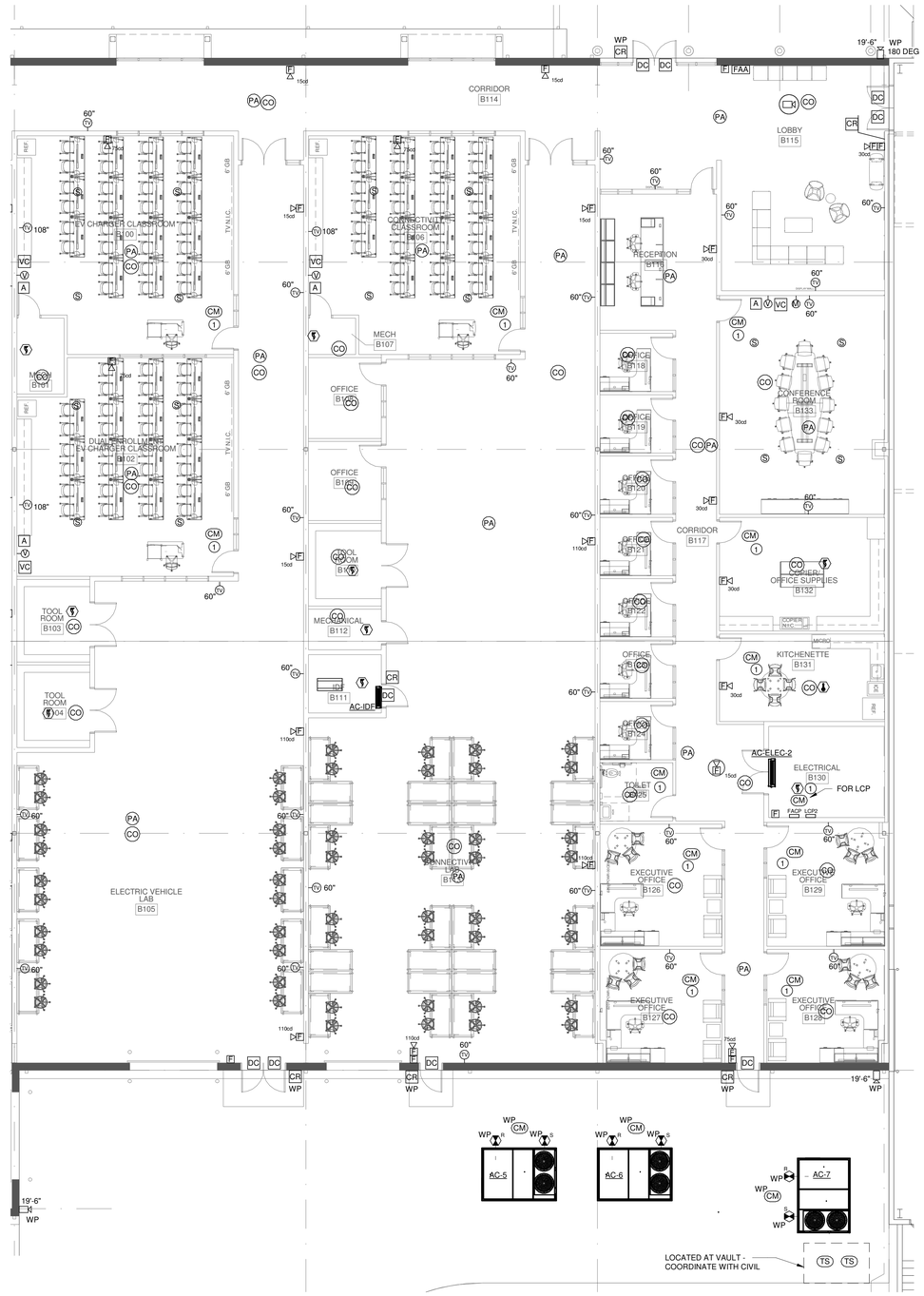
FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SCOPE OF PROJECT SHALL MATCH AS BELOW

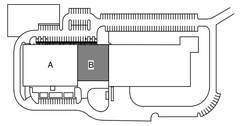
SYSTEM OUTPUTS

SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
1 FIRE ALARM SYSTEM AC POWER FAILURE						●	●			●				●													1
2 FIRE ALARM SYSTEM LOW BATTERY						●	●			●				●													2
3 OPEN CIRCUIT						●	●			●				●													3
4 GROUND FAULT						●	●			●				●													4
5 APPLIANCE OPEN/GROUND SHORT						●	●			●				●													5
6 BUILDING MANUAL PULL STATIONS	●	●						●		●	●				●							●					6
7 CORRIDOR SMOKE DETECTORS	●	●						●		●	●				●					●		●	●	●	●		7
8 AREA SMOKE DETECTORS	●	●						●		●	●				●					●		●	●	●	●		8
9 HVAC AIR DUCT SMOKE DETECTORS (IF APPLICABLE)				●	●			●			●		●						●			●					9
10 AREA HEAT DETECTORS	●	●						●		●	●				●					●		●	●				10
11 HOOD FIRE SUPPRESSION SYSTEM ALARM	●	●						●		●	●				●					●		●	●				11
12 SPRINKLER TAMPER SWITCH				●	●			●			●			●													12
13 SPRINKLER WATER FLOW IN BUILDING	●	●						●		●	●				●					●		●	●	●	●	●	13
14 SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT	●	●						●		●	●				●	●		●	●			●	●				14
15 SPRINKLER DRY PIPE SYSTEM LOW/HIGH PRESSURE				●	●			●			●		●														15
16 ELEV EQUIP RM AREA SMOKE DETECTOR	●	●						●		●	●				●	●		●		●		●	●				16
17 ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS	●	●						●		●	●				●	●		●	●	●		●	●				17
18 ELEV LOBBY SMOKE DETECTORS - ALTERNATE FLOORS	●	●						●		●	●				●	●				●		●	●	●	●	●	18
19 ELEV LOBBY SMOKE DETECTOR - PRIMARY FLOOR	●	●						●		●	●				●	●	●			●		●	●	●	●	●	19
20 ELEV CONTROLLER POWER SHUNT TRIP STATUS			●	●				●					●														20
21 FIRE PUMP POWER FAILURE/PHASE REVERSAL			●	●				●			●		●														21
22 FIRE PUMP RUNNING			●	●				●			●		●														22
23 FIRE PUMP SYSTEM NOT IN AUTOMATIC			●	●				●			●		●														23
24 GENERATOR SYSTEM LOW FUEL			●	●				●			●		●														24
25 GENERATOR NOT IN AUTOMATIC			●	●				●			●		●														25
26 EMER. RESPONDER RADIO COMM. SYSTEM FAULT			●	●				●			●		●														26
27 CARBON MONOXIDE DETECTORS				●			●	●	●	●		●											●				27
28 ROOM FIRE SUPPRESSION SYSTEM ALARM	●	●						●		●	●				●								●				28
29 DWELLING UNIT SMOKE DETECTIOS (R-1, R-2)																											29
30 ALTERNATIVE SYSTEM ALARM																											30
31																											31
32																											32
33																											33
34																											34
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	

FIRE ALARM OVERALL MATRIX
NOT TO SCALE



1 ELECTRICAL - AUXILIARY - FLOOR PLAN - AREA B
1/8" = 1'-0"



KEY PLAN

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Project Number : 50182832

LATHAN McKEE ARCHITECTS

ALABAMA ENERGY INFRASTRUCTURE TRAINING CENTER
PACKAGE C: INTERIOR FIT OUT
3711 INDUSTRIAL COURT, JASPER, ALABAMA 35501
BEVILL STATE COMMUNITY COLLEGE

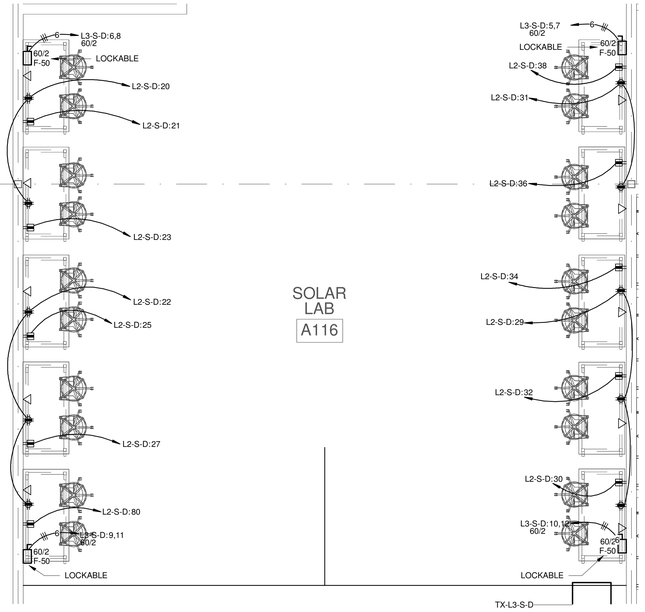
SHEET TITLE:
ELECTRICAL - AUXILIARY FLOOR PLAN - AREA B

ALABAMA LICENSED No. 51403 PROFESSIONAL 12/19/2025 ENGINEER ERWIN MICHAEL MARCHAN

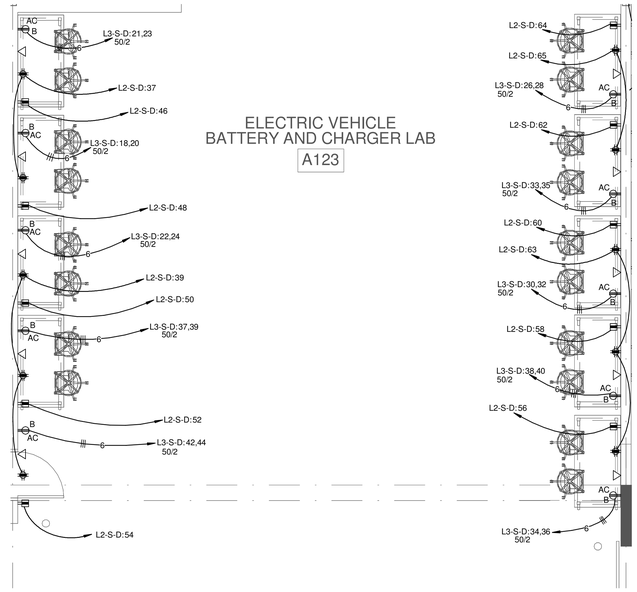
PROJ. MGR.:	AMM
DRAWN:	DB
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C

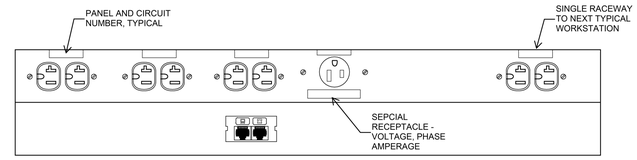
SHEET NO:
E4.1



1 ENLARGED SOLAR LAB A116 FLOOR PLAN - ELECTRICAL - POWER & VOICE/DATA
1/4" = 1'-0"



2 ENLARGED EV LAB A123 - ELECTRICAL - POWER & VOICE/DATA - FLOOR PLAN
1/4" = 1'-0"

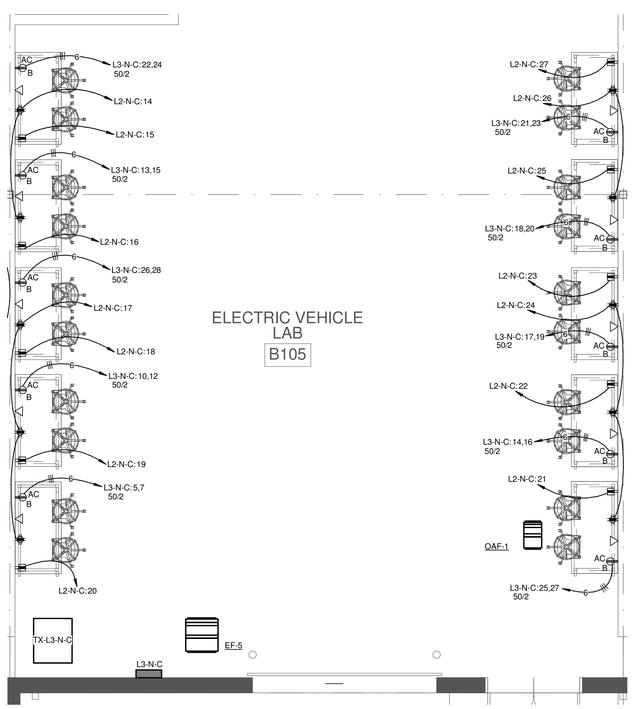


ENLARGED LAB PLAN NOTES:

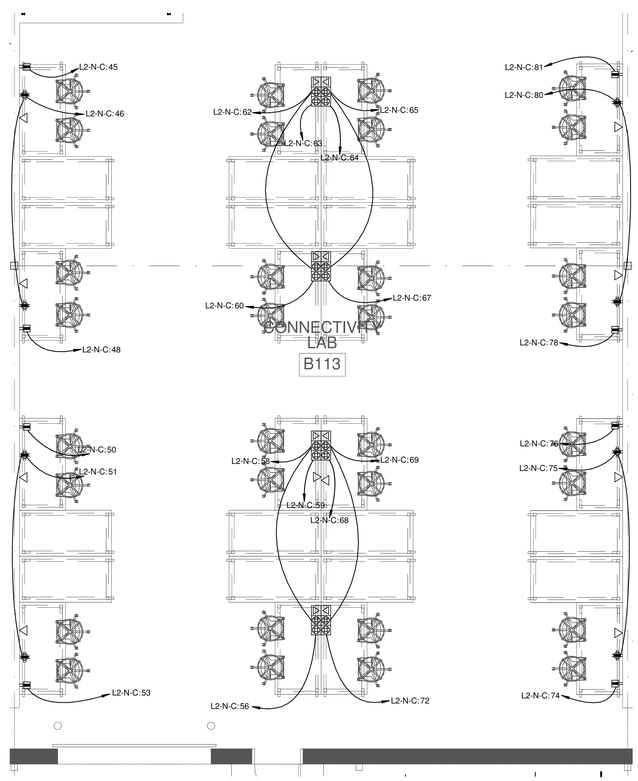
A. FOR ALL OUTLETS SHOWN ON THIS SHEET, PROVIDE WIREMOLD ALA4800 SERIES ALUMINUM RACEWAY OR EQUAL. PROVIDE COMPLETE WITH ALL ACCESSORIES REQUIRED. PROVIDE VOLTAGE DIVIDERS, FACEPLATES, DEVICES, ETC. ALL WIRING WITHIN THE SURFACE MOUNTED RACEWAY SHALL BE FACTORY WIRED. ALL DEVICES SHALL BE CUSTOM LABELED THAT IS PRE-PRINTED AT THE FACTORY. PROVIDE "ALA-J" FOR SINGLE RECEPTACLE WHERE INSTALLING THE NEMA 6-50R.

B. ALL CIRCUITS ON THIS SHEET SHALL RUN THROUGH THE CABLE TRAY SYSTEM. TO CONNECT FROM THE CABLE TRAY TO THE OUTLET, TRANSITION TO CONDUIT AND SURFACE MOUNT CONDUIT DOWN THE WALL.

C. FOR CABLE TRAY, PROVIDE TYPE TC CABLE.



3 ENLARGED EV LAB B105 - ELECTRICAL - POWER & VOICE/DATA - FLOOR PLAN
1/4" = 1'-0"



4 ENLARGED CONNECTIVITY LAB B113 - ELECTRICAL - POWER & VOICE/DATA - FLOOR PLAN
1/4" = 1'-0"

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BEVILL STATE COMMUNITY COLLEGE

SHEET TITLE:
ELECTRICAL - POWER & VOICE/DATA FLOOR PLAN - ENLARGED PLANS

ALABAMA LICENSED No. 51403 PROFESSIONAL ENGINEER 12/19/2025 FRED MICHAEL MARQUINI

PROJ. MGR.:	AMM
DRAWN:	SEE
DATE:	12.19.25
REVISIONS	

JOB NO. 24-40C
SHEET NO:
E5.0