NEW BAND ROOM AND ATHLETIC FACILITIES FOR JACKSONVILLE HIGH SCHOOL

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265 JACKSONVILLE CITY SCHOOLS

JACKSONVILLE CITY SCHOOLS BOARD OF EDUCATION

MR. ED CANADY MR. JEFF GOSSETT MRS. TERESIA HALL MRS. PHYLLIS MORRISON MRS. MARITA WATSON

DR. MIKE HOWARD

BOARD PRESIDENT, PLACE 3 BOARD VICE PRESIDENT, PLACE 5 BOARD MEMBER, PLACE 1 BOARD MEMBER, PLACE 2 BOARD MEMBER, PLACE 4 SUPERINTENDENT

JACKSONVILLE CITY SCHOOLS

320 BRANSCOMB DRIVE SW JACKSONVILLE, ALABAMA 36265

ARCHITECT LATHAN ASSOCIATES ARCHITECTS, P.C.

300 CHASE PARK SOUTH, SUITE 200

HOOVER, ALABAMA 35244 205-988-9112

EMAIL: RFI@LATHANASSOCIATES.COM

CIVIL LBYD, INC.

880 MONTCLAIR RD #600

BIRMINGHAM, ALABAMA 35213

STRUCTURAL STRUCTURAL DESIGN GROUP, INC.

300 CHASE PARK SOUTH SUITE 125

HOOVER, ALABAMA 35244

MECHANICAL / WHORTON ENGINEERING, INC.

PLUMBING P.O. BOX 5190

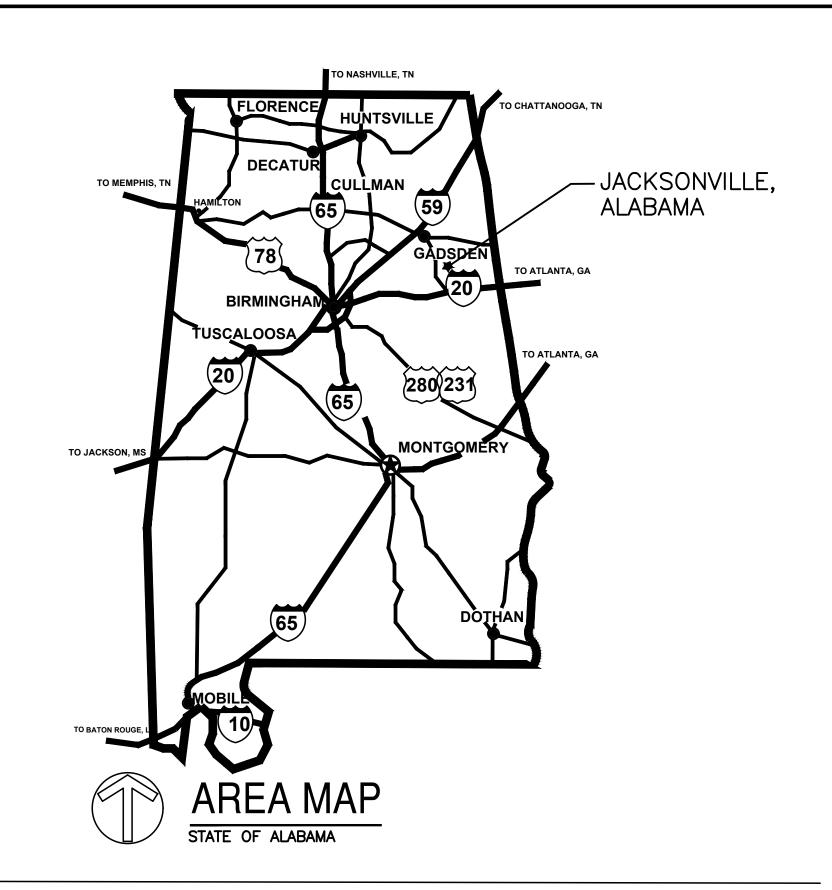
ELECTRICAL STEWART ENGINEERING, INC.

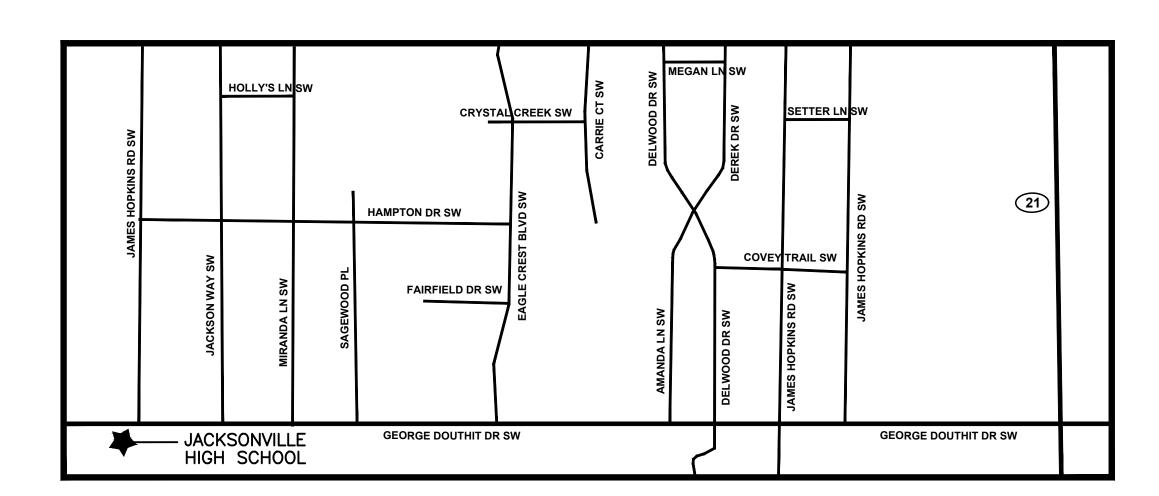
ANNISTON, ALABAMA 36205

P.O. BOX 2233 ANNISTON ALABAMA 36202

(7 SHEETS)

(5 SHEETS)







DRAWING INDEX (SET - 65 TOTAL SHEETS)

<u>GEN</u>	IERAL	(2 SHEETS
T1 LS1.1	- TITLE AND INDEX - LIFE SAFETY PLAN	
-		
CIVI	L DRAWINGS	(7 SHEETS
CIVI C0.1	L DRAWINGS - CIVIL NOTES	(7 SHEETS
		(7 SHEETS
C0.1	- CIVIL NOTES	(7 SHEETS
C0.1 C1.0	- CIVIL NOTES - SITE DEMOLITION PLAN	(7 SHEETS
C0.1 C1.0 C2.0	- CIVIL NOTES - SITE DEMOLITION PLAN - SITE LAYOUT PLAN	(7 SHEETS
C0.1 C1.0 C2.0 C3.0	- CIVIL NOTES - SITE DEMOLITION PLAN - SITE LAYOUT PLAN - GRADING AND DRAINAGE PLAN	(7 SHEETS

ARCHITECTURAL DRAWINGS (23 SHEETS)

- ARCHITECTURAL SITE PLAN - DEMOLITION PLAN

- FLOOR PLAN AND ENLARGED PLAN DETAILS

- ENLARGED PLAN DETAIL - ROOF PLAN AND DETAILS

- ROOF DETAILS

- DOOR AND WINDOW SCHEDULE AND DETAILS

- BUILDING ELEVATIONS, ENLARGED ELEVATION, AND DETAIL

 BUILDING SECTIONS - WALL SECTIONS - WALL SECTIONS A3.3.3 - WALL SECTIONS

- WALL SECTIONS - INTERIOR ELEVATIONS

- INTERIOR ELEVATIONS AND DETAILS

- INTERIOR ELEVATIONS

- INTERIOR ELEVATIONS - REFLECTED CEILING PLANS AND LEGENDS

- FINISH FLOOR PLAN, LEGENDS, AND DETAILS

- SCHEDULES, LEGENDS, AND DETAILS - ROOM SIGNAGE FLOOR PLAN, LEGEND, AND DETAILS

-FLOOR PLAN. ROOF PLAN.BUILDING ELEVATIONS. BUILDING **SECTIONS, WALL SECTION, AND DETAIL**

(9 SHEETS)

A10.2 - ENLARGED TOILET PLANS, REFLECTED CEILING PLANS FINISH FLOOR PLANS, INTERIOR ELEVATION, LEGENDS, **SCHEDULES AND DETAILS- ALTERNATE**

STRUCTURAL DRAWINGS

- GENERAL NOTES

- GENERAL NOTES CONTINUED

- TYPICAL DETAILS

- TYPICAL DETAILS - TYPICAL DETAILS

- FOUNDATION PLAN

- ROOF FRAMING PLAN - SECTIONS AND DETAILS

- SECTIONS AND DETAILS

MECHANICAL DRAWINGS

- HVAC LEGEND, NOTES, AND SCHEDULES

- HVAC SCHEDULES AND IAQ/ COMPLIANCE CALCULATIONS

- HVAC DETAILS - HVAC DETAILS

- HVAC DETAILS

- HVAC PLAN - HVAC PLAN- ALTERNATE

FIRE PROTECTION DRAWINGS (3 SHEETS)

- FIRE PROTECTION PLUMBING PLAN - ALTERNATE

SP1.1 - FIRE PROTECTION, LEGEND, NOTES, AND DETAILS - FIRE PROTECTION PLUMBING PLAN - BASE BID

PLUMBING DRAWINGS

(9 SHEETS)

PLUMBING SCHEDULES, LEGEND, NOTES, AND DETAILS

- WASTE AND CONDENSATE PLUMBING PLAN - BASE BID

- WASTE PLUMBING RISER DIAGRAM- BASE BID - WASTE AND CONDENSATE PLUMBING PLAN - ALTERNATE

- WASTE PLUMBING RISER DIAGRAM- ALTERNATE

- WATER PLUMBING PLAN- BASE BID

- WATER PLUMBING RISER DIAGRAM- BASE BID

- WATER PLUMBING PLAN- ALTERNATE - WATER PLUMBING RISER DIAGRAM- ALTERNATE

- SCHEDULES, SYMBOLS, AND NOTES

ELECTRICAL DRAWINGS

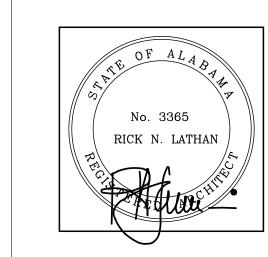
- MASTER PLAN AND SINGLE LINE DIAGRAM

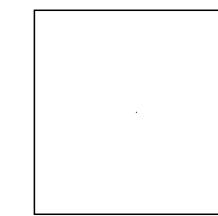
- FLOOR PLAN- LIGHTING

- FLOOR PLAN- POWER

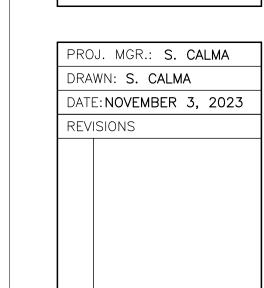
- FLOOR PLAN- AUXILIARIES

IC FACILITIES FOR HIGH SCHOOL

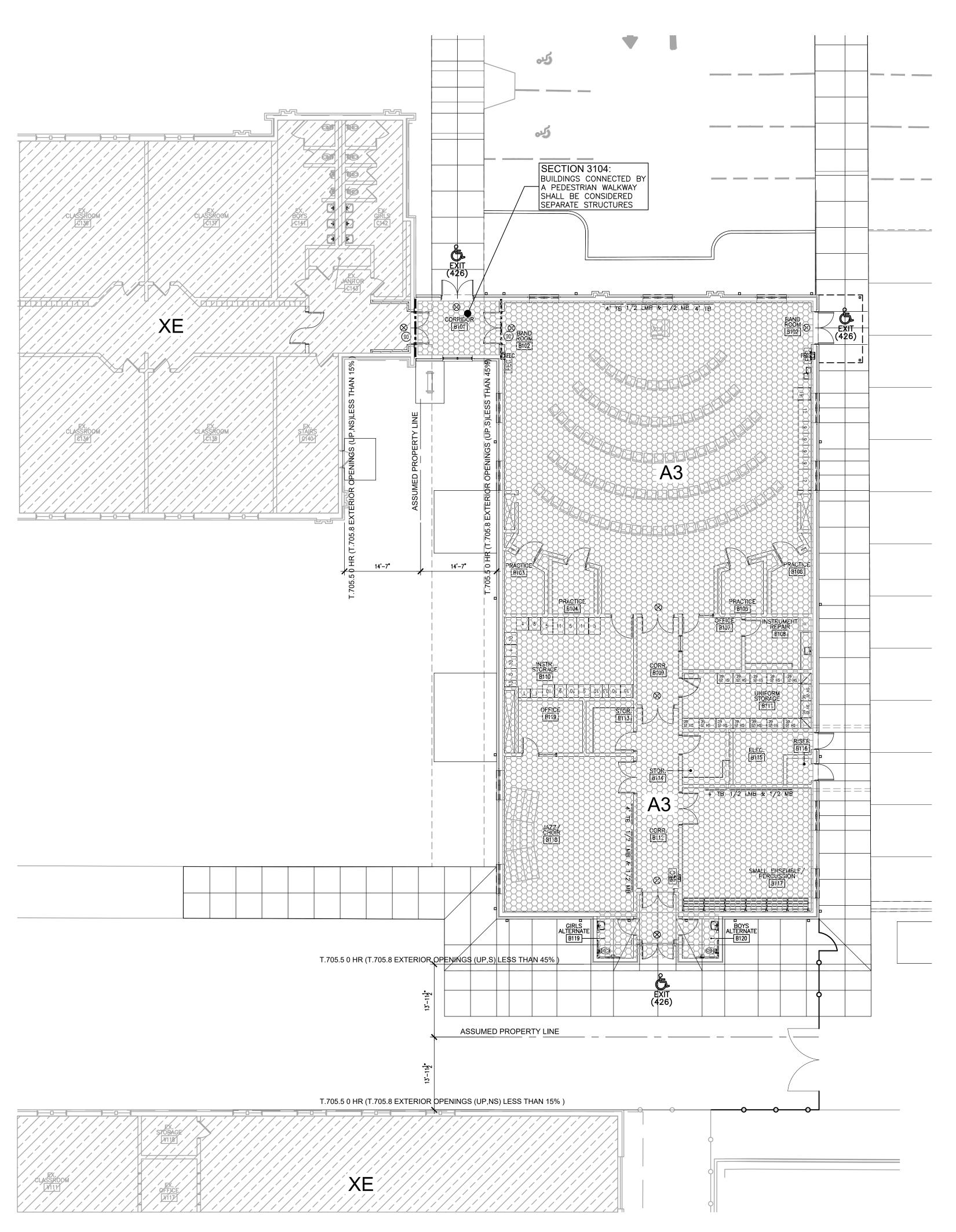




SHEET TITLE: TITLE AND INDEX



JOB NO. **22-47B** SHEET NO: 1 OF 2



LIFE SAFETY PLAN

3/32" = 1'-0"

DOOR/WINDOW RATING LEGEND

20 MINUTE DOOR AND FRAME
45 MINUTE DOOR AND FRAME
90 MINUTE DOOR AND FRAME
45 MINUTE DOOR AND FRAME

LIFE SAFETY NOTES					
FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)					
FE FIRE EXTINGUISHER	ACCESSIBLE				
⊗ EXIT SIGN → DIRECTION	EXIT——EXIT (320)——EXIT CAPACITY				
EXTEND AND KEY ALL RATED WAL AND/OR BOTTOM OF ROOF ASSE	,				
STENCIL LABEL ALL RATED WALLS ABOVE CEILING EACH SIDE @ 20'-					
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				

EVICTING BUILDING OCCUPANCY.	LDING CODE				
EXISTING BUILDING OCCUPANCY:		ROUP E			
EXISTING BUILDING TYPE OF CONSTRUCTION :	TYPE IIB				
NEW ADDITION OCCUPANCY CLASSIFICATION:	GROUP A3				
NEW ADDITION TYPE OF CONSTRUCTION :	TYPE IIIB (S1)				
EXISTING BUILDING AREA:		115,602 S	S.F.		
NEW ADDITION AREA:		7,354 S.	F.		
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIE	S: AC	ACTUAL STORIES:		
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: S1		38,000 S.F.		
TABLE 601 AND 705.5	CONSTRUCTION TY	PE:	IIB		
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	STRUCTURAL FRAME:		0		
	BEARING WALLS:		0		
	T. 705.5 EXT	ERIOR:	< 5' >5'< 10'	1	
			> 10'< 30'	1	
			<u>></u> 30'		
		INTE	ERIOR:		
	NONBEARING WALL	S:			
	T. 705.5 EXT	ERIOR:	< 5'	1	
			≥5'< 10'	1	
			≥10'< 30' >30'	1	
	INT	ERIOR:	0		
	FLOOR CONSTRUCT		0		
	ROOF CONSTRUCTION	ON:	0		
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP A3 SPRINKLERED		0		

	CHAPTER 29 - PLUMBING SYSTEMS											
OCCUI	PANCY	V	VATERO	CLOSETS			LAVAT	ORIES		DRINKIN FOUNTA	- 1	SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
A2	431.85	1/75	2.88	1/75	2.88	1/200	1.08	1/200	1.08	1/500	.86	
A3	1200.06	1/125	4.8	1/65	9.23	1/200	3	1/200	3	1/500	2.4	
A4	1000	1/75 FIRST 1,500 1/120 REMAINDER EXCEEDING 1,500.		1/40 FIRST 1,520 1/60 REMAINDER EXCEEDING 1,520.	12.5	1/200	2.5	1/150	3.33	1/1000	1	1
В	42.27	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.00	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.		1/40 FIRST 80 1/80 EXCEED 80.	.53	1/40 FIRST 80 1/80 EXCEED 80.	.53	1/100	.42	
E	1628.04	1/50	16.28	1/50	16.28	1/50	16.28	1/50	16.28	1/100	16.28	
S1,S2	18.26	1/100	.09	1/100	.09	1/100	.09	1/100	.09	1/1000	.02	
REQUI TOTAL			31.57		41.83		23.48		24.31		20.98	1
PROVI TOTAL			39		45		30		36		17	3

OCCUPANCY	USE LEGEND
A3	É
GROUP A3	GROUP E
EXISTING GROUP XA3	EXISTING GROUP XE

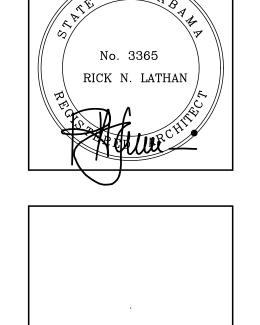


SAND ROOM AND ATHLETIC FACILITIES FOR

CKSONVILLE HIGH SCHOOL

AGE B: NEW BAND ROOM

SEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265



SHEET TITLE: LIFE SAFETY PLAN

PROJ. MGR.: S. CALMA

DRAWN: H. RASCO

DATE: NOVEMBER 3, 2023

REVISIONS

JOB NO. **22-47B**SHEET NO:

LS1.1

GENERAL NOTES:

- LBYD, INC. SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. LBYD IS NOT RESPONSIBLE FOR SITE SAFETY PROCEDURES OR METHODS OF CONSTRUCTION.
- 2. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AS WELL AS FIELD VERIFIED BY ONSITE

PERSONNEL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED

- 3. EXISTING UTILITIES TO REMAIN MAY BE LOCATED WITHIN PROPOSED DEMOLITION AREAS. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THESE AREAS TO ENSURE NO UTILITY SERVICE INTERRUPTIONS TO FACILITIES THAT REMAIN OR TO ADJACENT PROPERTIES.
- 4. ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED, "TO REMAIN".
- 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY LBYD OF ANY DISCREPANCIES PRIOR TO
- SUBMITTING PRICES OR ORDERING MATERIALS

 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT
- WILL BE AT THE CONTRACTOR'S EXPENSE.
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT AND PAY ALL PERMIT FEES. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.
 9. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY THE OWNER AND PERFORMED BY ARRINGTON ENGINEERING
- AND LAND SURVEYOR, INC. DATED 10/12/2022.

 10. TOPOGRAPHIC INFORMATION WAS PERFORMED VIA GROUND RUN FORMAT.

SITE DEMOLITION NOTES:

- 1. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ANY DEMOLITION REGARDING ITEMS TO BE SALVAGED, RECYCLED, AND REUSED. CONTRACTOR SHALL REMOVE ITEMS TO BE SALVAGED WITH EXTREME CAUTION TO PREVENT DAMAGE. CONTRACTOR SHALL TURN ALL SALVAGED ITEMS OVER TO OWNER.
- 2. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OR REMOVAL OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS. ALL UTILITIES TO BE REMOVED ARE TO BE CAPPED OR PLUGGED OR TERMINATED ACCORDING TO THE UTILITY OWNERS REQUIREMENTS.
- 3. REFER TO SITE GRADING AND UTILITY PLANS FOR PROPOSED UTILITY AND DRAINAGE INSTALLATION AND REMOVAL.
- 4. REFER TO LAYOUT PLAN FOR ADDITIONAL INFORMATION RELATING TO PAVING, CURB, SIDEWALKS, HARDSCAPES, ETC. REMOVE EXISTING CURBS AS NEEDED TO INSTALL PROPOSED IMPROVEMENTS.
- 5. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, RELOCATION OR PROTECTION OF ALL ABOVE AND BELOW GROUND EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS UNLESS NOTED.
- ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN A LEGAL AND APPROVED MANNER.
 ALL EXISTING PAVING, CURBS, HARDSCAPE, ETC. SHALL BE SAW CUT AT THE LIMITS OF REMOVAL IN ORDER TO PROVIDE A

CLEAN EDGE. EXISTING PAVING AT EDGE SHALL BE MILLED BACK A MINIMUM OF 24" TO ENSURE SMOOTH TRANSITION.

- SITE LAYOUT NOTES:

 1. ALL HANDICAP RAMPS, SIGNS, SYMBOLS, AND PAINTED ISLANDS AND ACCESS ROUTES MUST CONFORM TO THE LATEST ADA REQUIREMENTS.
- 2. THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- 3. ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE OUTSIDE FACE OF BUILDING TO THE BACK OF CURB, OR TO THE EDGE OF SURFACING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC BUILDING INFORMATION.
- 4. ALL STRIPING TO BE PER THE LATEST EDITION OF THE MUTCD UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SITE CONSTRUCTION TRAFFIC CONTROL PLAN AND OBTAINING ANY REQUIRED APPROVALS FROM THE LOCAL JURISDICTIONAL AUTHORITY. THE SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL TAKE INTO ACCOUNT THE ENTERING AND EXITING OF CONSTRUCTION TRAFFIC ONTO THE ROADWAY AND THE IMPACT TO THE FLOW OF TRAFFIC. THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. THIS SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE IN ADDITION TO ANY TRAFFIC CONTROL PLAN PROVIDED IN THE PLAN SET FOR ROADWAY IMPROVEMENTS.
- 6. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.

GRADING NOTES:

- 1. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTING.
- 2. ALL TOPSOIL SHALL BE STRIPPED WITHIN THE PROPOSED LIMITS OF GRADING AND SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION FOR LATER USE WITH ANY EXCESS TO BE DISPOSED OF OFF-SITE ONCE ALL LANDSCAPED AREAS HAVE BEEN BROUGHT TO FINISH GRADE UNLESS OTHERWISE NOTED ON THE PLANS.
- 3. SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVILY LOADED DUMP TRUCK AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL. ANY AREAS SHOWING SIGNS OF PUMPING, RUTTING, OR ANY UNSUITABLE (ORGANIC, SOFT, WET, LOOSE) MATERIAL FOUND IN PLACE SHALL BE UNDERCUT AND REPLACED, OR MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- 4. ALL EXPOSED SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RECOMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SUBGRADE AFTER IT HAS BEEN INITIALLY PREPPED DUE TO INCLEMENT WEATHER AND CONSTRUCTION TRAFFIC.
- 6. FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: VIRTUALLY FREE OF ORGANICS, NO ROCK FRAGMENTS GREATER THAN 4" WITHIN 4' OF FINISH GRADE, LIQUID LIMIT NOT EXCEEDING 50, PLASTICITY INDEX NOT EXCEEDING 25, MINIMUM STANDARD PROCTOR (ASTM D-698) OF 100 PCF, COMPACTED 98% IN PAVED AND STRUCTURAL AREAS, 95% NON-STRUCTURAL AND LANDSCAPED AREAS, PLACED IN 8" LOOSE LIFTS, AND WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT. STRUCTURAL AREAS INCLUDE ZONES OF INFLUENCE AROUND THE BUILDING, PAVEMENT AREAS, FILL SLOPES,
- 7. COMPACTION TESTS SHALL BE TAKEN AT THE RECOMMENDATION OF THE ON-SITE GEOTECHNICAL ENGINEER, BUT AT A MINIMUM EVERY 2,500 SQUARE FEET OF AREA PER 8" LIFT.
- 8. COMPACTION WITHIN LIMITED SPACES (I.E. MANHOLES, INLETS, UTILITY TRENCHES) SHOULD BE BACKFILLED AND COMPACTED SYSTEMATICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR
- 9. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
- 10. NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
- 11. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
- 12. THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- 13. ALL GRADING ADJACENT TO EXISTING OR PROPOSED BUILDINGS SHALL BE SLOPED AWAY FROM THE STRUCTURES AT A MINIMUM OF 1.0% GRADE. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES. NOTIFY LBYD OF ANY DISCREPANCIES.
- 14. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
- 15. FILL SLOPES SHOULD BE BENCHED INTO THE EXISTING SLOPES AND SHOULD BE COORDINATED WITH THE ONSITE GEOTECHNICAL ENGINEER FOR BENCH DETAILS (HEIGHT AND DEPTH OF BENCH INTO THE SLOPE.)
- GEOTECHNICAL ENGINEER FOR BENCH DETAILS (HEIGHT AND DEPTH OF BENCH INTO THE SLOPE.)

 16. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON CONSULTANTS, INC. AND IS AVAILABLE FOR INFORMATION
- PURPOSES. THE CONTRACTOR SHALL REVIEW THIS REPORT, VISIT THE SITE AND COMPLETE ANY ADDITIONAL EXPLORATIONS THAT IT FEELS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID.
- 17. DEWATERING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION. REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES. INSTALL A DEWATERING SYSTEM TO KEEP SUBGRADES DRY AND CONVEY GROUND WATER AWAY FROM EXCAVATIONS. MAINTAIN

- UNTIL DEWATERING IS NO LONGER REQUIRED. IF GROUNDWATER DEWATERING IS REQUIRED, CONTRACTOR IS TO OBTAIN ANY PERMITS AS MAY BE REQUIRED PRIOR TO DISCHARGE OF EFFLUENT FROM DEWATERING.
- 18. GRADING ADJACENT TO THE BUILDING SHALL BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FOUNDATION WALLS, STEM WALLS, DRAINS, AND OTHER CONDITIONS. THE CONTRACTOR SHALL NOTIFY LBYD INC. OF ANY DISCREPANCIES.

STORM DRAINAGE NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO LBYD PRIOR TO INSTALLATION AND/OR FABRICATION.

INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION, NOTIFY LBYD OF ANY DISCREPANCIES.

- 2. ALL PROPOSED STORM INLETS (GRATES, CURB, YARD, AREA DRAINS) ARE TO BE LOCATED AT THE LOWPOINTS. GRADING SHALL BE TO DIRECT RUNOFF TO THESE INLETS. NOTIFY LBYD OF ANY DISCREPANCIES.
- 3. STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES,
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED STORM PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBYD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
- 5. PROPOSED STORM PIPES 30" AND LESS SHALL BE BEDDED IN 4" OF CRUSHED AGGREGATE AND STORM PIPES 36" AND GREATER SHALL BE BEDDED IN A 6" OF CRUSHED AGGREGATE.
- 6. ALL STORM PIPES 15" AND LESS SHALL BE SMOOTH LINED HIGH DENSITY POLYETHYLENE (HDPE) OR A-2000 POLYVINYL CHLORIDE (PVC) WITH WATER-TIGHT JOINTS UNLESS OTHERWISE NOTED, INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL STORM PIPES 18" AND GREATER SHALL BE CLASS 3 REINFORCED CONCRETE PIPE (RCP) BELL AND SPICOT INSTALLED WITH WATERTIGHT JOINTS LINESS OTHERWISE NOTED.
- SPIGOT INSTALLED WITH WATERTIGHT JOINTS UNLESS OTHERWISE NOTED.
 CONTRACTOR SHALL PROVIDE CAST IRON DOWNSPOUT BOOTS, CLEANOUTS AND COLLECTOR LINES FROM ALL EXTERIOR DOWNSPOUTS TO CONNECT TO PRIMARY STORM DRAINAGE SYSTEM. COORDINATE WITH EXTERIOR ELEVATIONS, ROOF

AND PLUMBING PLANS FOR DOWNSPOUT LOCATIONS. COORDINATE DOWNSPOUT MODEL NUMBER WITH THE ARCHITECT.

- 8. CONTRACTOR SHALL COORDINATE ROOF DRAIN COLLECTOR LINES, DOWNSPOUTS AND BOOTS WITH FOOTING ELEVATIONS ON THE STRUCTURAL PLANS PRIOR TO POURING FOOTINGS. TOP OF FOOTINGS SHALL BE A MINIMUM OF 3' BELOW GRADE AT ALL ROOF DRAIN DOWNSPOUT LOCATIONS TO ENSURE ADEQUATE COVER TO TRANSITION TO BELOW GRADE PIPING.
- 9. PROVIDE 4" PVC SCHEDULE 40 GRAVITY DRAIN LINE FROM ALL BELOW GRADE UTILITY VAULTS TO THE NEAREST STORM DRAINAGE INLET OR DAYLIGHT AT GRADE.

EROSION CONTROL NOTES:

- 1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A "NOTICE OF INTENT" (NOI) FROM ADEM. THE OWNER SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH ADEM RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT HIS/HER REQUEST. ANY AND ALL FEES, FINES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 4. EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM AND ARE DEPENDENT ON THE CONTRACTOR'S CONSTRUCTION PHASING OF THE PROJECT. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION AND OTHER DEGRADATION OR POLLUTION TO THE SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS. ADDITIONAL MEASURES MAY INCLUDE, AS MINIMUM, TEMPORARY SEDIMENT BASINS, CONSTRUCTION EXITS PAD, VEHCILE WASH RACKS, SILT FENCING, STRAW AND RIP RAP CHECK DAMS, DIVERSION DITCHES, ETC. THESE ADDITIONAL MEASURES SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 5. EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES, CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- 7. EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINDS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
- 8. AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
- 9. DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES, OR PUBLIC ROADWAYS.
- 10. A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
- 11. ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
- 12. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656 OR HYDRAULICALLY APPLIED BY ALDOT SPECIFICATION SECTION 659.
- 13. ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
- 14. PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
- 15. WATTLES OR SILT FENCING SHALL BE INSTALLED AT ALL INLETS UPON THE COMPLETION OF EACH INLET.
- 16. GEOTEXTILE SHALL BE PLACED ON ALL 2:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 17. GEOTEXTILE SHALL BE PLACED ON ALL 3:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 18. GEOTEXTILE SHALL BE PLACED ON ALL DITCH BOTTOMS & 1' UP EACH SIDE. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

UTILITY NOTES:

COMPANY.

- 1. THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL UTILITY SERVICES (WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, CABLE TV) FROM THE POINT THE RESPECTIVE UTILITY COMPANY COMPLETES THEIR WORK TO THE POINT OF CONNECTION AT THE BUILDING.
- 2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC. PLANS FOR ALL PROPOSED UTILITY POINTS OF CONNECTION AT THE BUILDING. NOTIFY LBYD OF ANY DISCREPANCIES.
- 3. GRAVITY SEWER SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES,
- INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION. NOTIFY LBYD OF ANY DISCREPANCIES.

 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRAVITY SEWER PIPE GRADES AND POINTS OF
- CONNECTION PRIOR TO INSTALLATION. LBYD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.

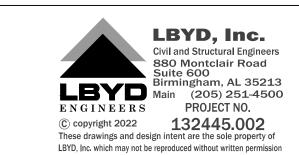
 5. WATER MAINS 4 INCHES IN DIAMETER AND GREATER SHALL BE DIP (CL.350) AND WATER MAINS LESS THAN 3 INCHES IN
- DIAMETER SHALL BE PVC (SCHD.40) UNLESS OTHERWISE INDICATED ON THE PLANS.

 6. WATER MAINS AND SERVICES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL FROM ALL SANITARY
- SEWER MAINS AND LATERALS.

 7. WATER MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY'S REQUIREMENTS.
- ALL MAINS AND SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER UNLESS OTHERWISE INDICATED ON PLANS.

 8. ALL SANITARY SEWER MAINS AND LATERALS SHALL BE PVC (C900) UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITY
- 9. ALL UNDERGROUND ELECTRICAL, TELEPHONE, AND CABLE TV SHALL BE INSTALLED IN PVC CONDUIT OR CONCRETE ENCASED DUCT BANK WITH PULL WIRE MEETING THE LOCAL UTILITY COMPANY'S REQUIREMENTS. INFORMATION SHOWN ON CIVIL DRAWINGS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC INFORMATION.
- 10. UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED FILL PLACED IN 6 INCH LOOSE LIFTS. FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR AND OPTIMUM MOISTURE CONTENT WITHIN ±2.0%.

- 11. WHEN INSTALLING UTILITIES IN EXISTING PAVED AREAS OR IN AREAS WHERE SOILS ARE CONSIDERED UNSUITABLE FOR BEDDING OR BACKFILLING, UTILITY TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED AGGREGATE.
- 12. WHERE UTILITIES ARE TO BE INSTALLED IN AREAS OF EXISTING PAVING, HARDSCAPE, SIDEWALKS, ETC. CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING PAVING, HARDSCAPE, SIDEWALK ETC. AND REPLACE IN LIKE KIND AND RESTRIPE AS NECESSARY. BACKFILL TRENCH FULL DEPTH WITH STONE.
- 13. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.





NEW BAND ROOM AND ATHLETIC FACILITIES FOF

JACKSONVILLE HIGH SC

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILL
JACKSONVILLE CITY SCHOOLS

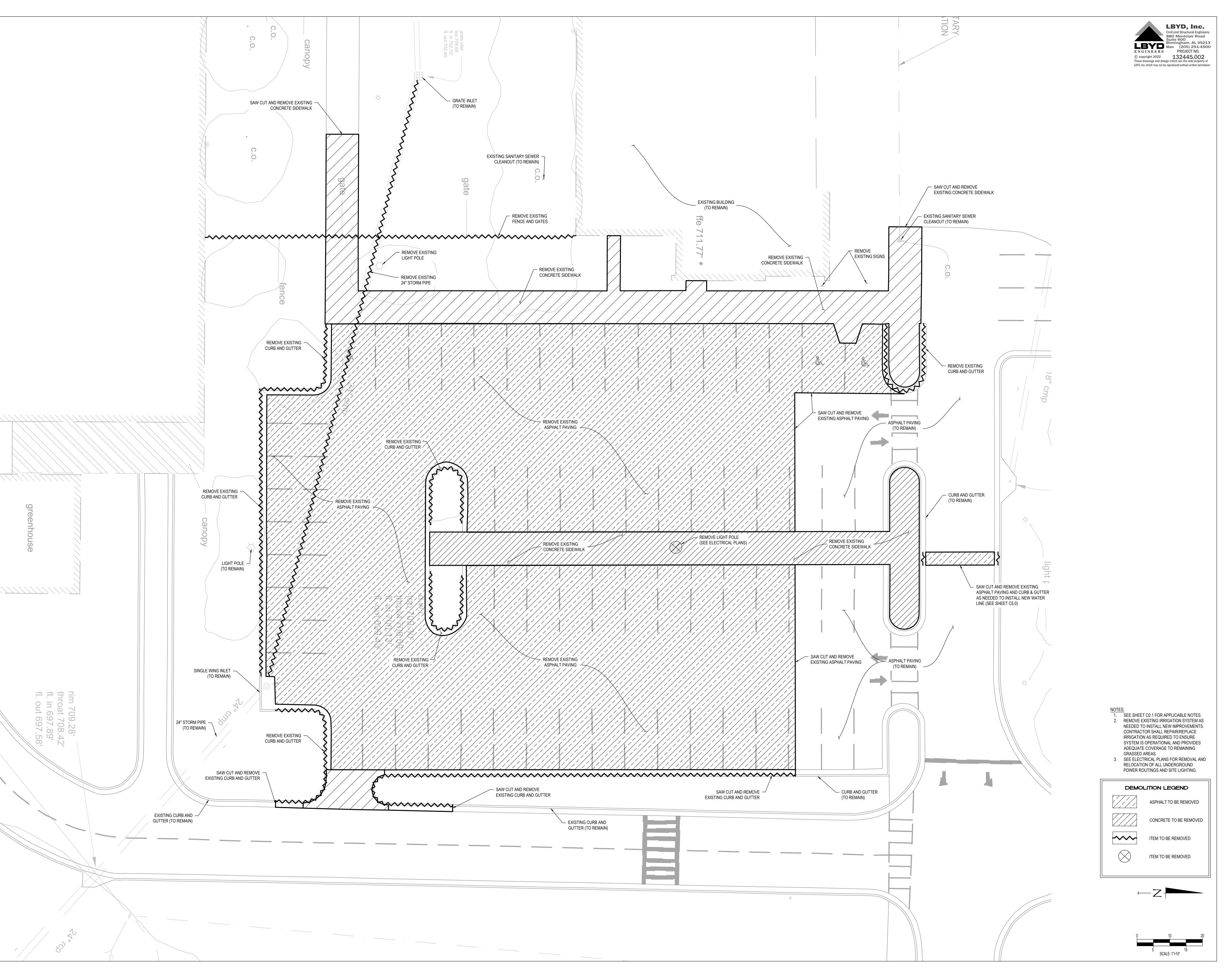


SHEET TITLE:
CIVIL NOTES

PRO	J. MGR.:		CA
DRA	WN:		LB
DAT	E: NOVEMBER	3,	2023
REV	ISIONS		

JOB NO. **22-47B**SHEET NO:

1 OF 7

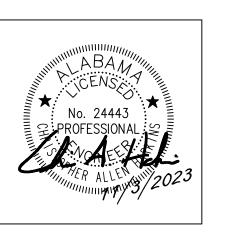




NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAM/
JACKSONVILLE CITY SCHOOLS



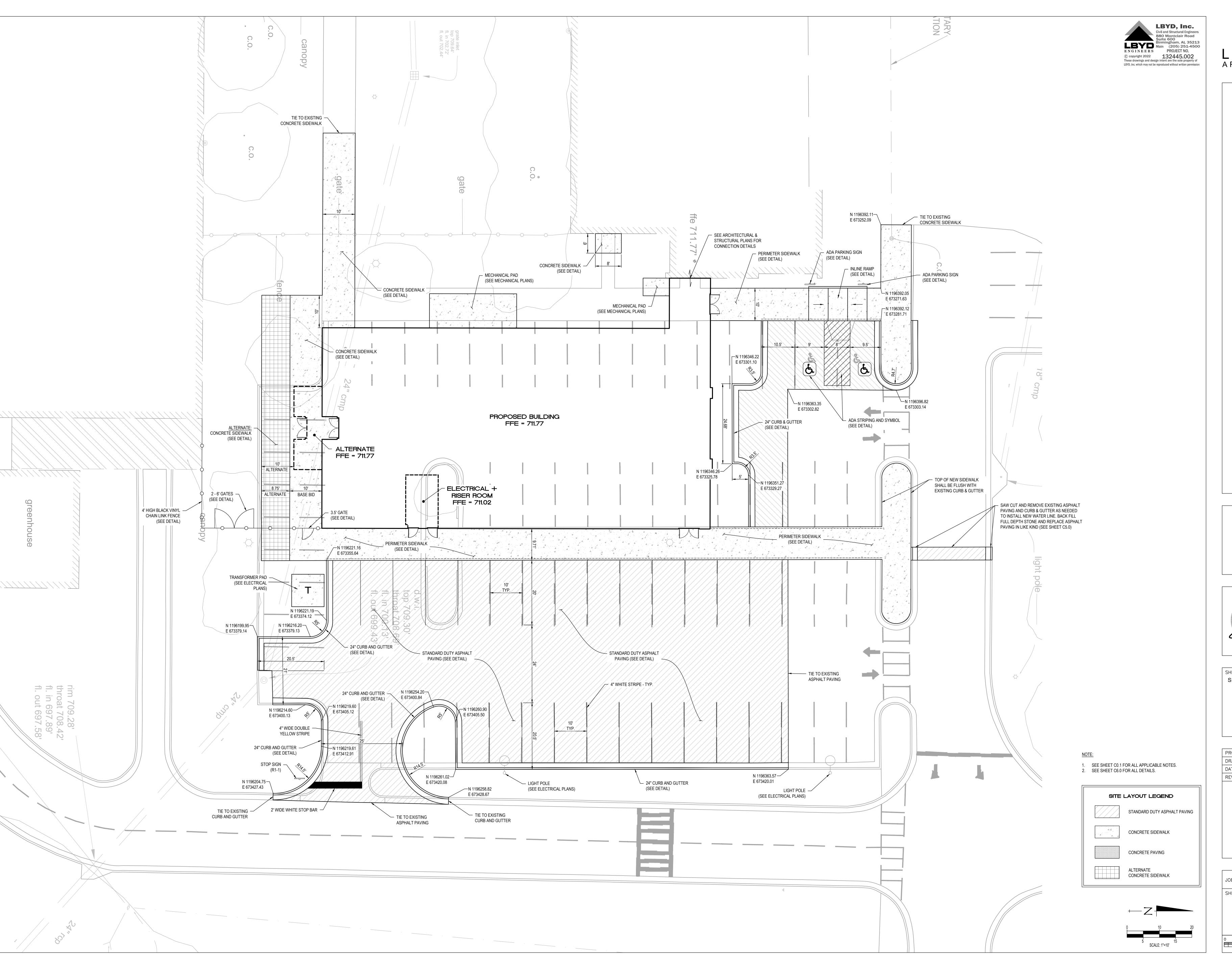
SHEET TITLE:
SITE DEMOLITION
PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. 22-47B

SHEET NO:

C1.0



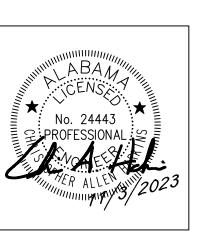
LATHAN

NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 3626

JACKSONVILLE CITY SCHOOLS



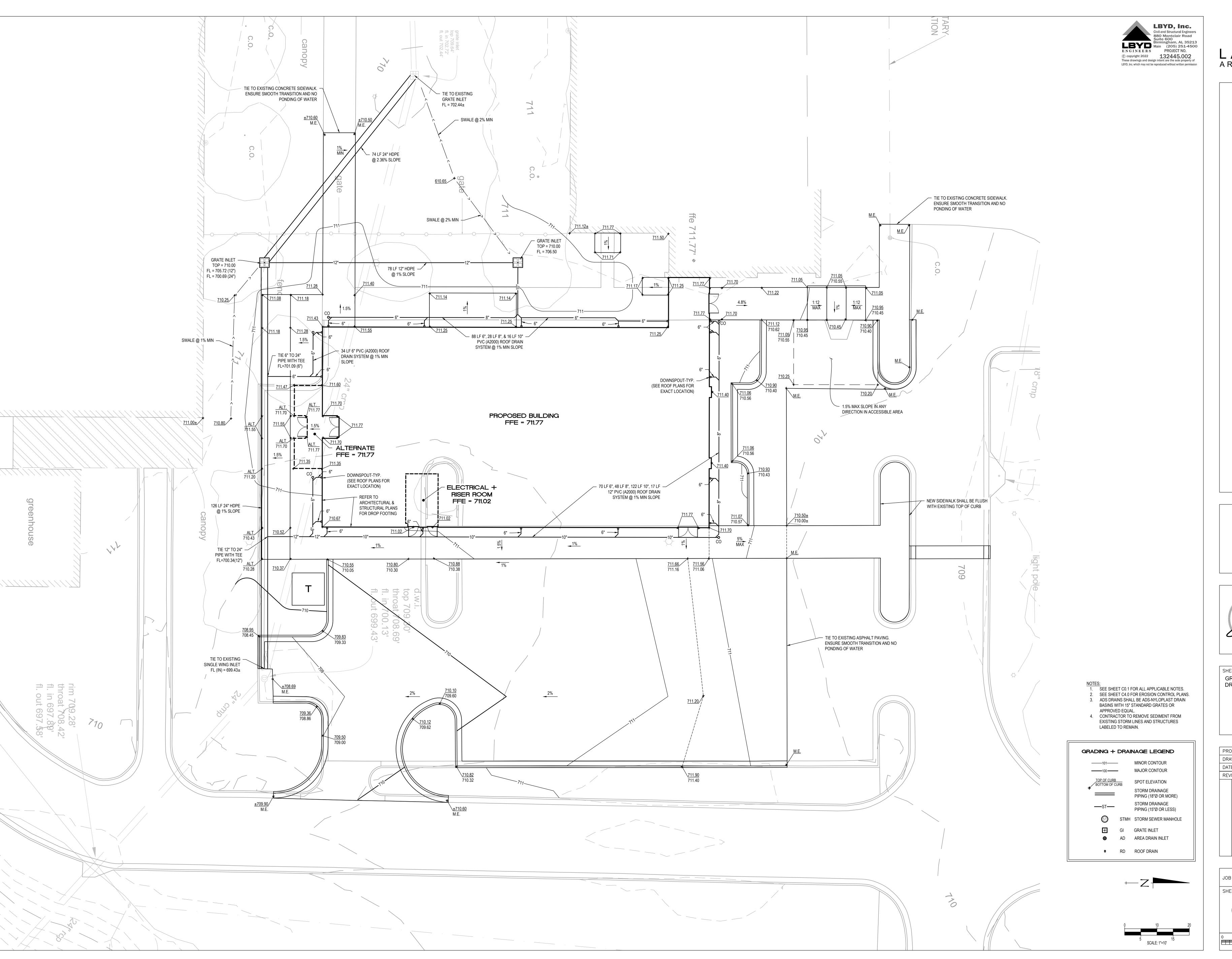
SHEET TITLE:
SITE LAYOUT PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. 22-47B

SHEET NO:

C2.0





NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 3626

JACKSONVILLE CITY SCHOOLS



SHEET TITLE:

GRADING AND

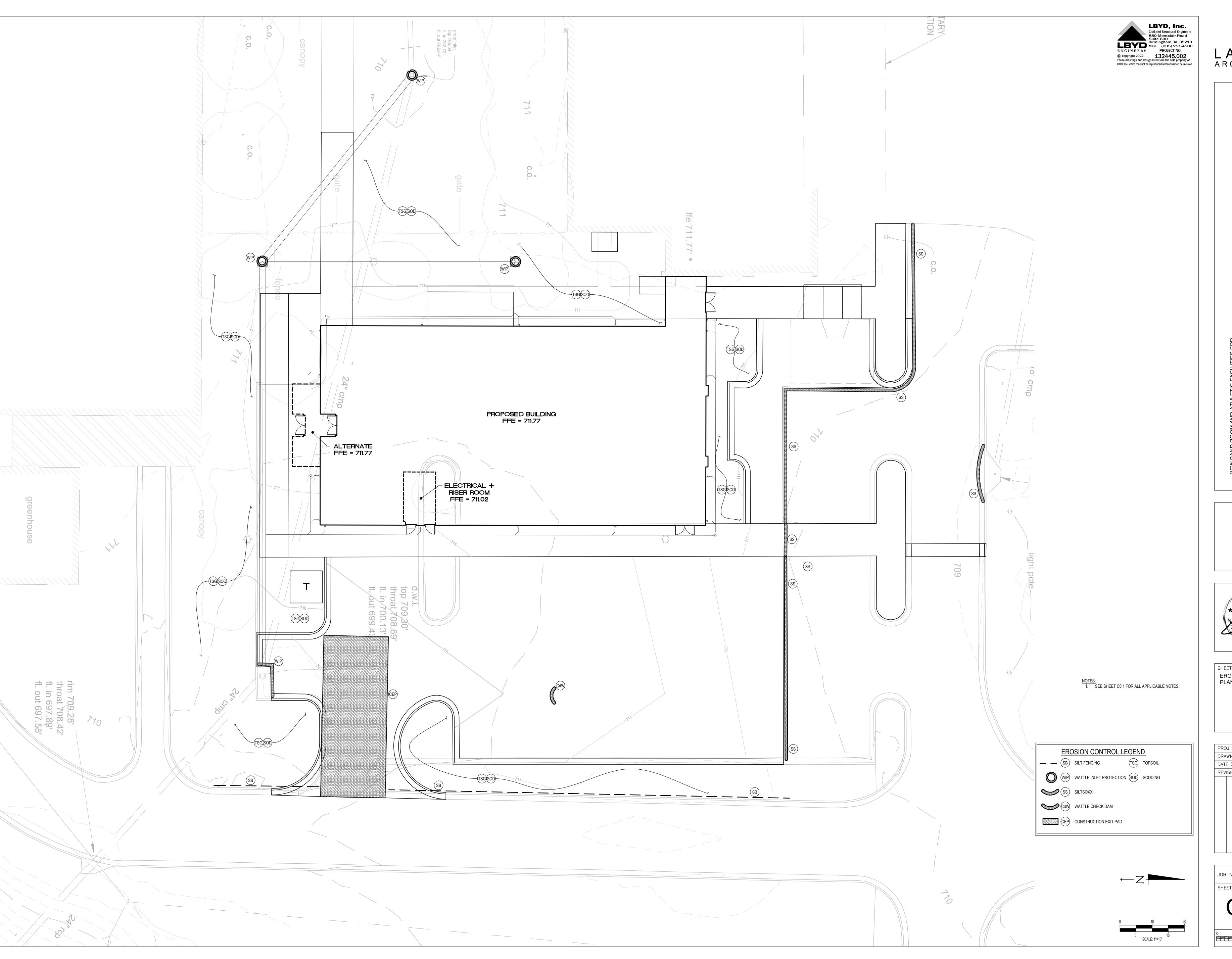
DRAINAGE PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. 22-47B

SHEET NO:

C3.0





No. 24443

PROFESSIONAL

NO. 24443

SHEET TITLE:
EROSION CONTROL
PLAN

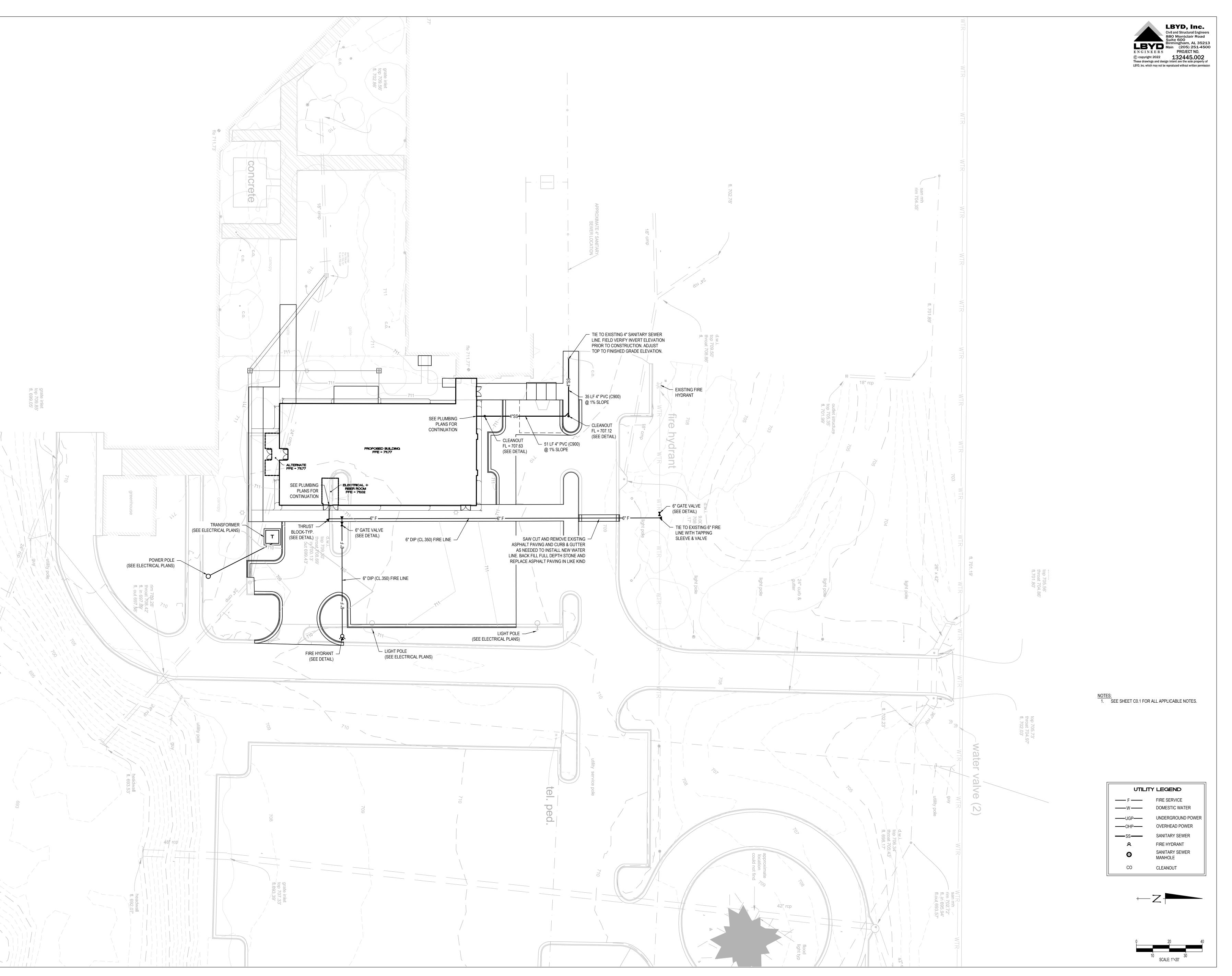
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DRAWN: LBH
DATE: SEPTEMBER 25, 2023
REVISIONS

JOB NO. 22-47B

SHEET NO:

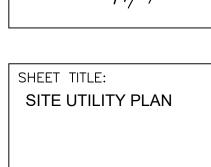
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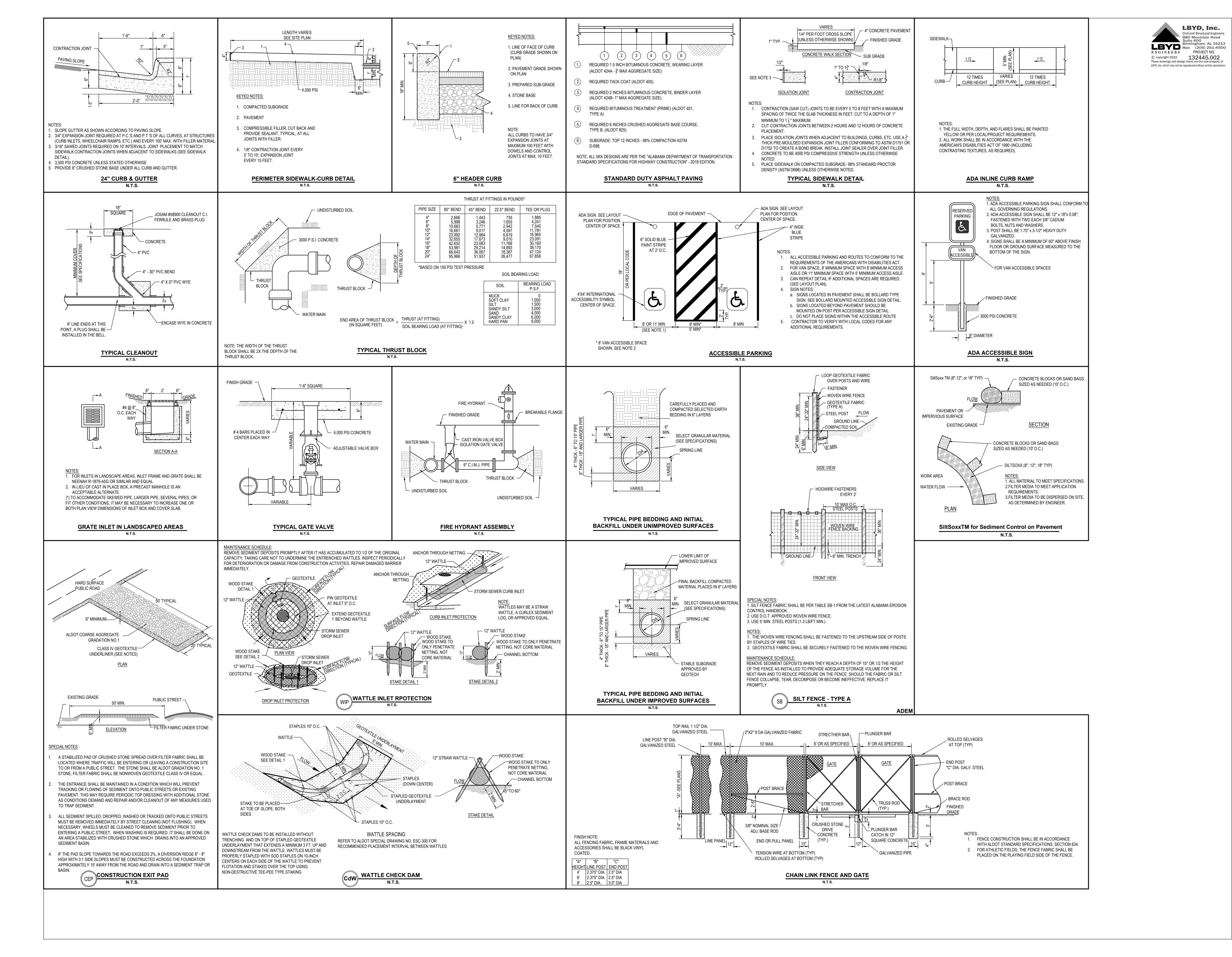


PROJ. MGR.: DRAWN:		CAH LBH
DATE: NOVEMBER	3,	
REVISIONS		

JOB NO. 22-47B

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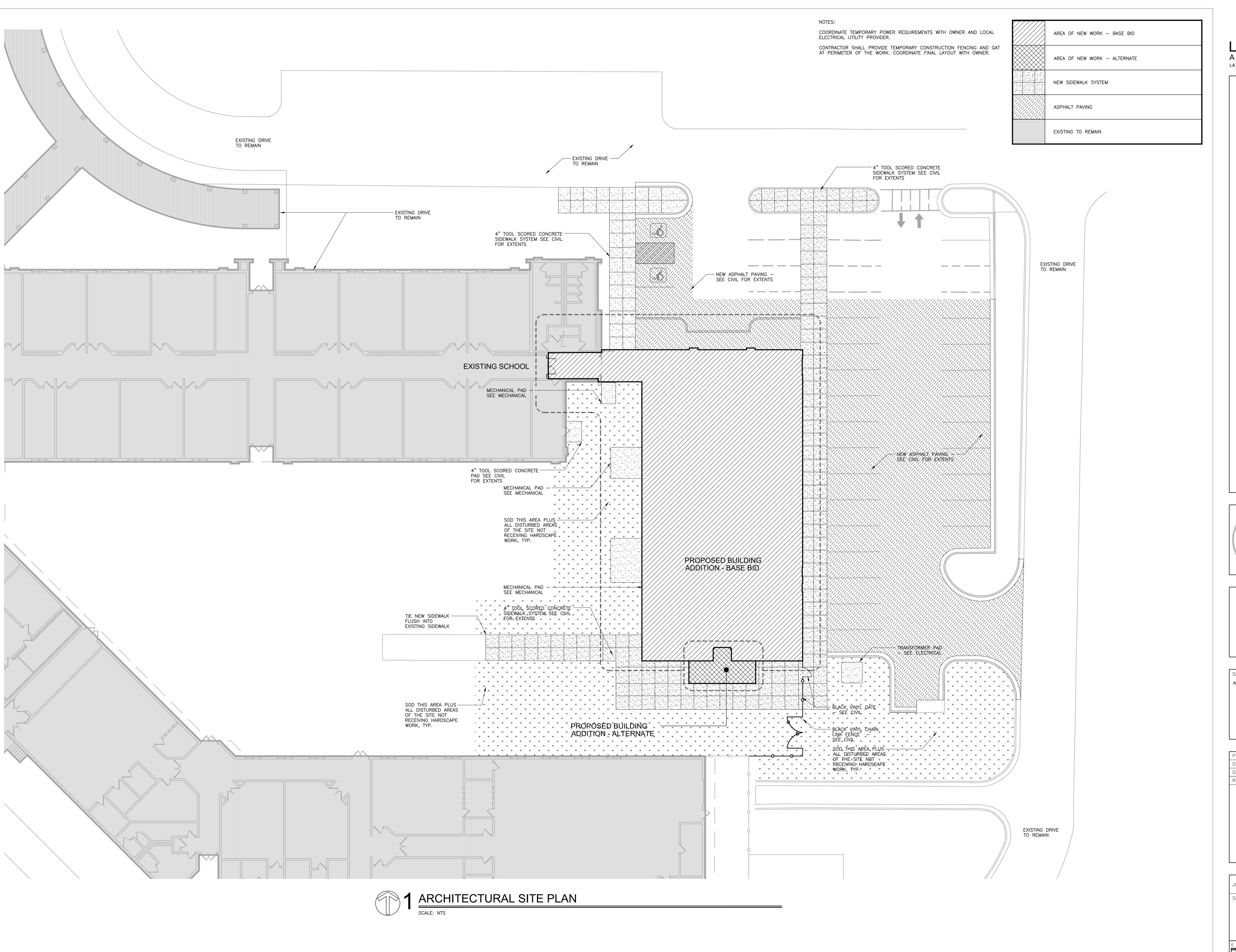
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SHEET TITLE: **DETAILS**

PROJ. MGR.: DRAWN: DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B** SHEET NO:

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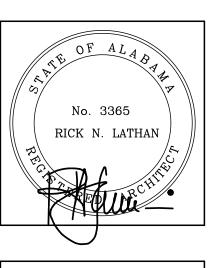
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265

JACKSONVILLE CITY SCHOOLS



SHEET TITLE:

ARCHITECTURAL SITE PLAN

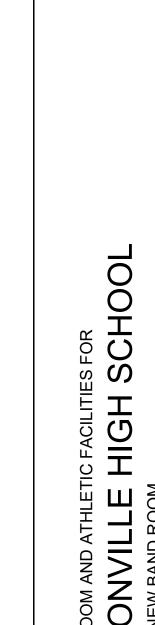
PROJ. MGR.: S. CALMA
DRAWN: C. BRYANT
DATE: NOVEMBER 3, 2023
REVISIONS

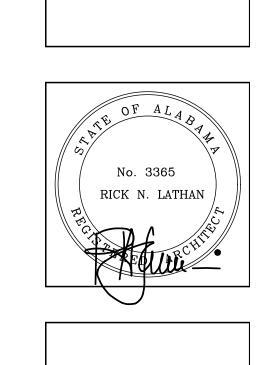
JOB NO. 22-47B

SHEET NO:

A1.1

1 OF 23

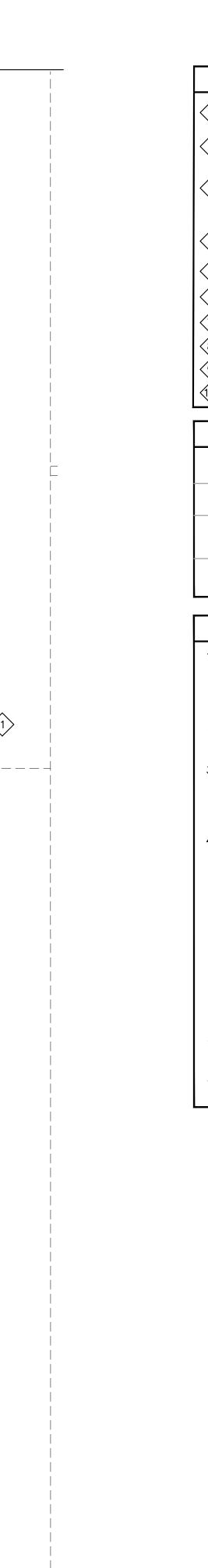


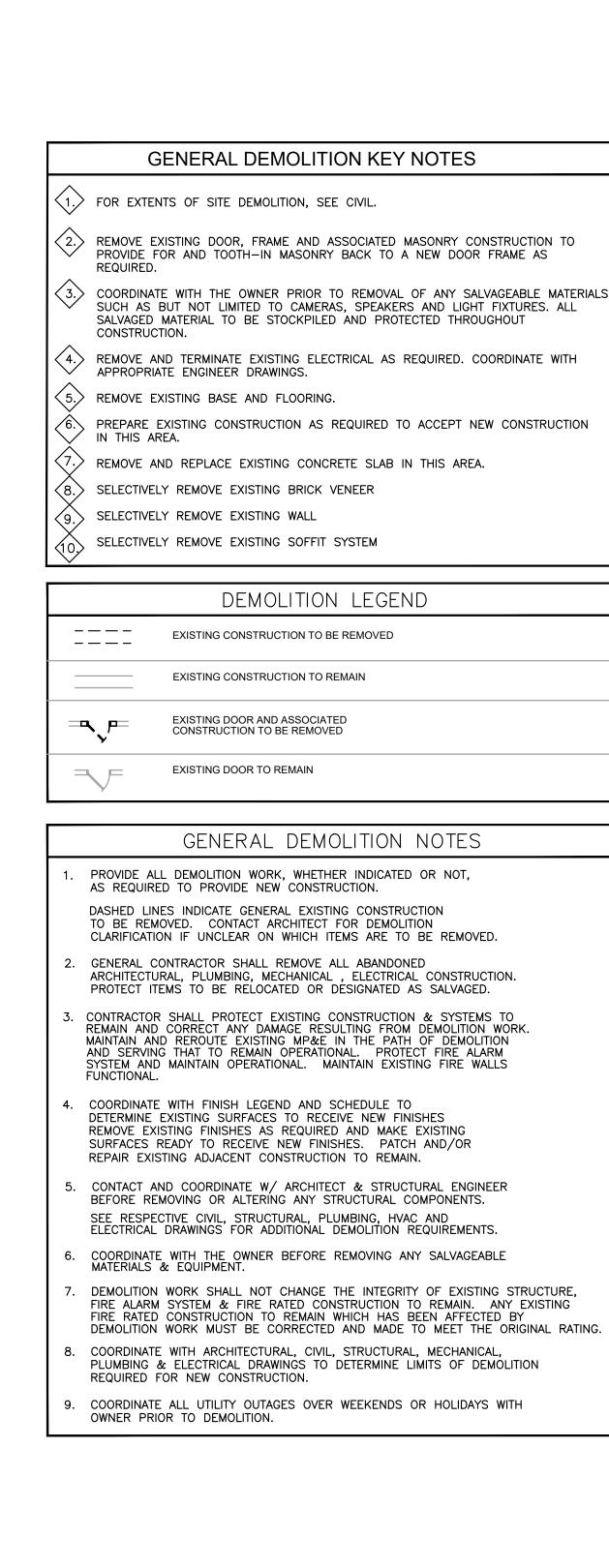


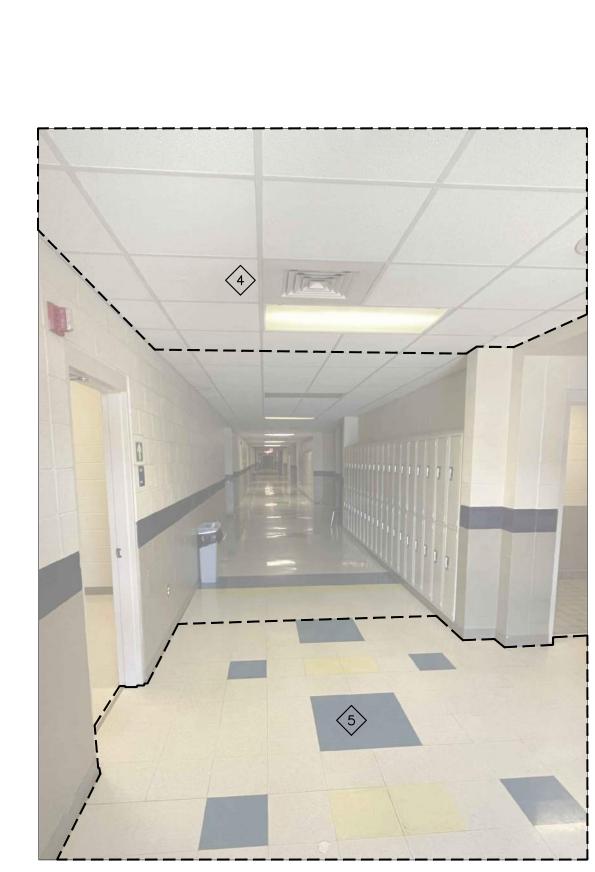
SHEET TITLE: DEMOLITON PLAN

PROJ. MGR.: S. CALMA DRAWN: P. PHELPS DATE: NOVEMBER 3, 2023 REVISIONS

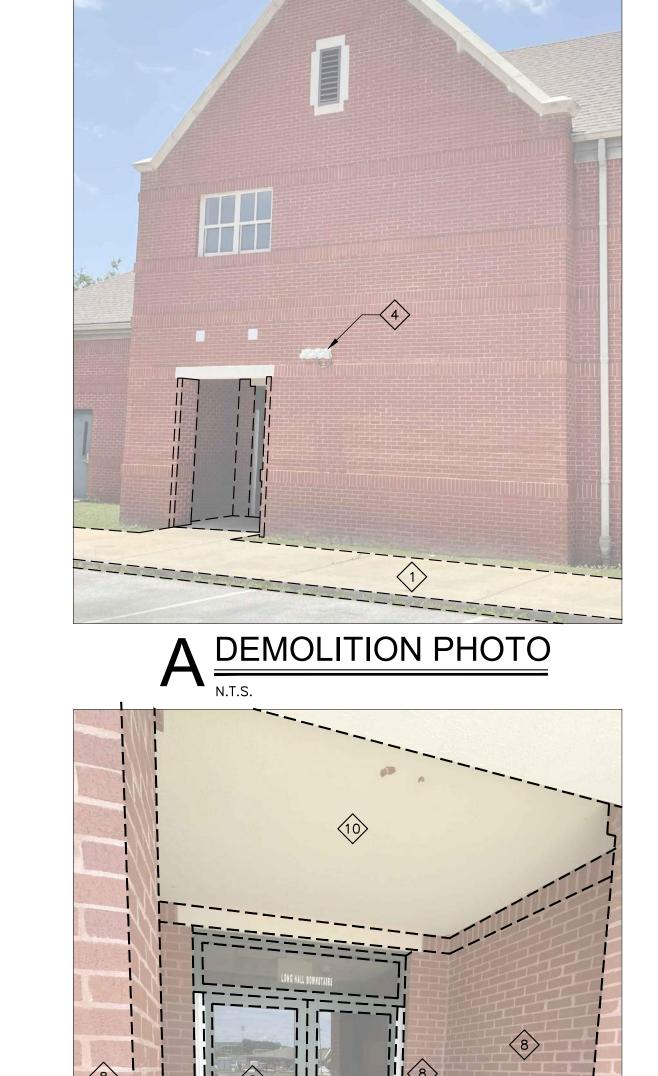
JOB NO. **22-47B** SHEET NO: 2 OF 23







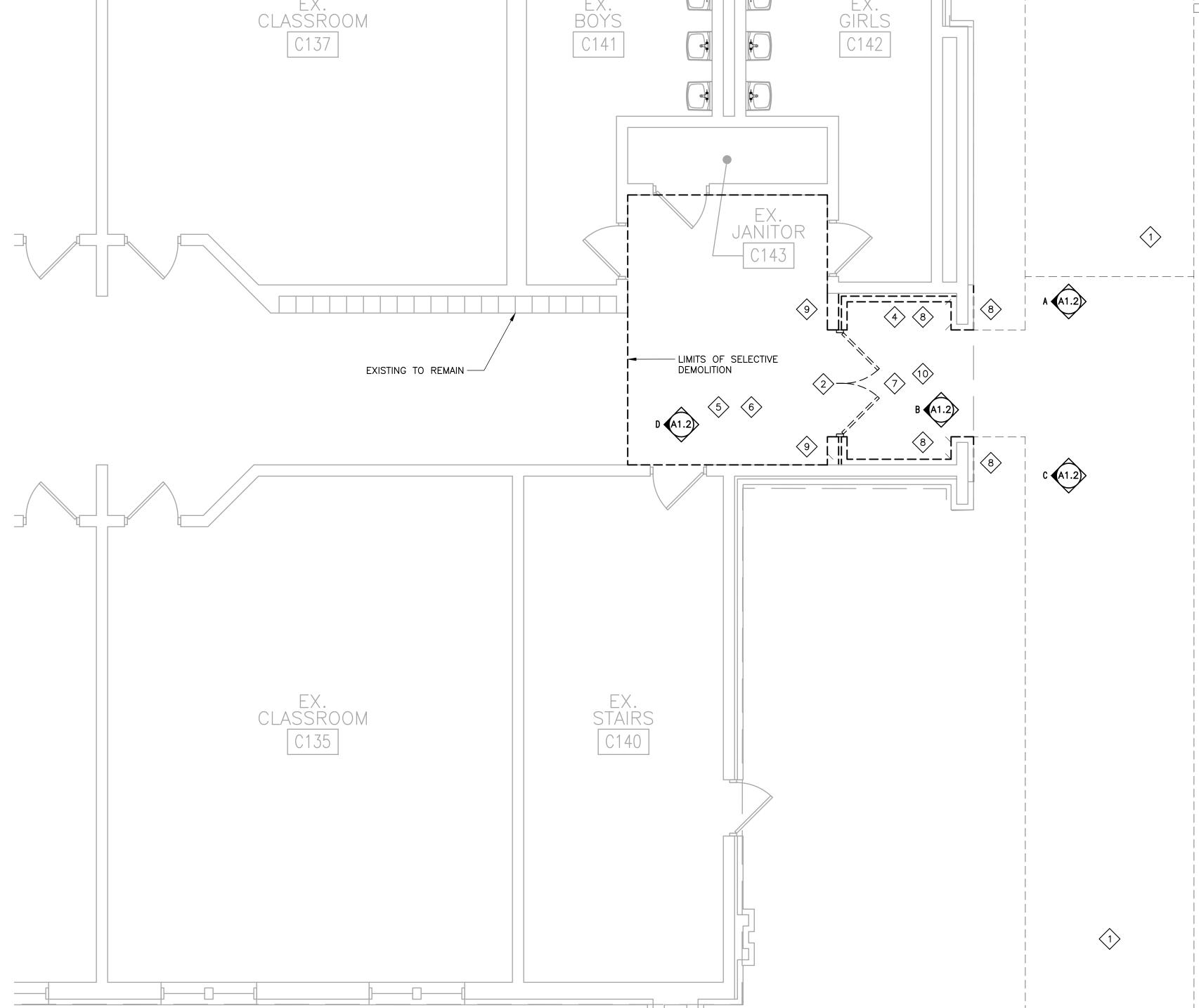






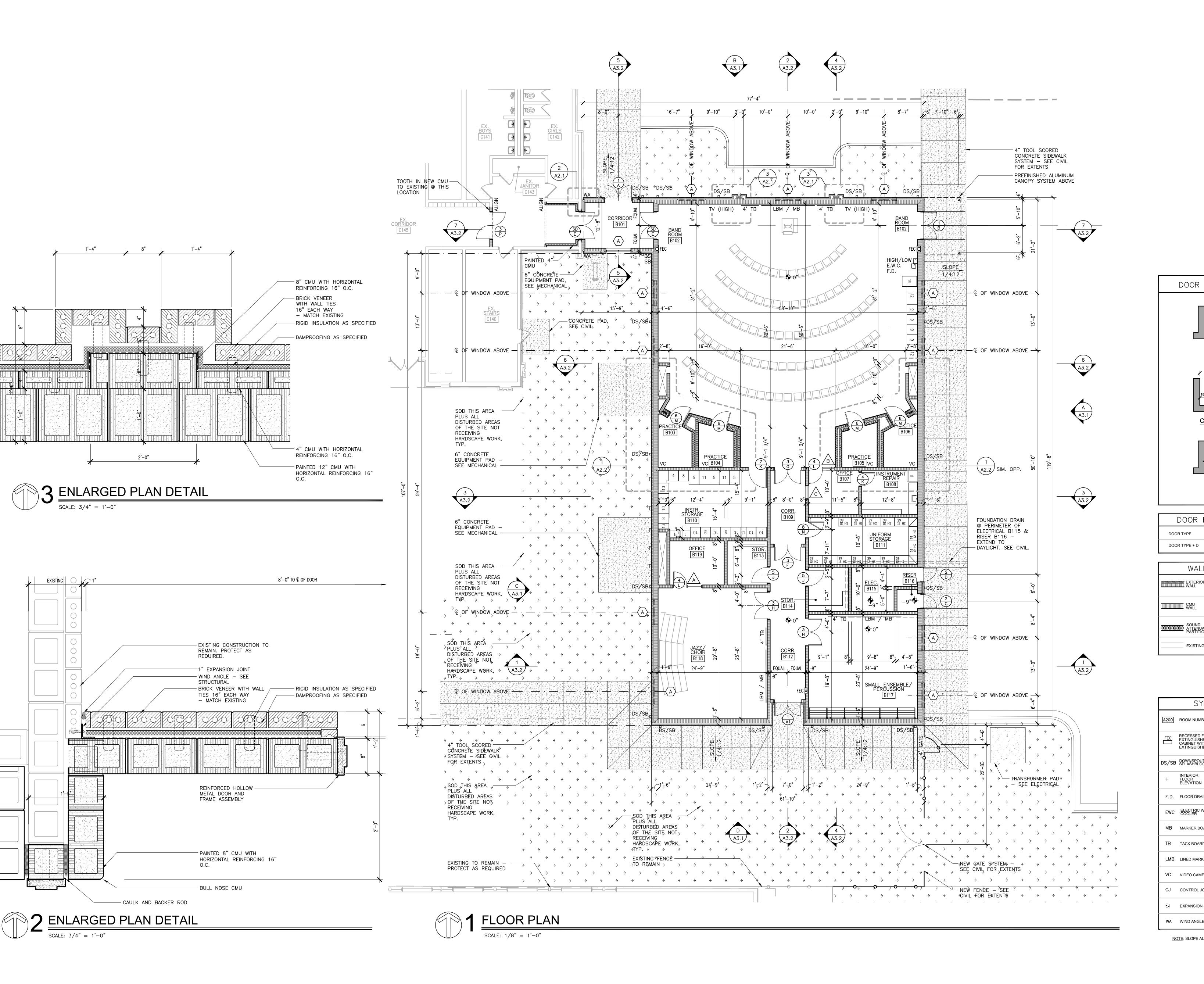


B DEMOLITION PHOTO



DEMOLITION PLAN

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





ES FOR SCHO

RICK N. LATHAN

SHEET TITLE:

PLAN DETAILS

FLOOR PLAN AND ENLARGED

PROJ. MGR.: S. CALMA

DRAWN: P.P / C.B

DATE: NOVEMBER 3, 2023

REVISIONS

DOOR PLACEMENT LEGEND

FLUSH FRAME

CENTERED FRAME

OFFSET FRAME

DOOR	FIRE R	ATING LEGEND
DOOR TYPE	(2)	NO RATING
DOOR TYPE + D	(2D)	90 MINUTE RATING

-	
WALL 7	TYPE LEGEND
EXTERIOR WALL	4" BRICK VENEER W/ AIR SPACE AND RIGID INSULATION ON REINFORCED CMU WITH DAMPPROOFING, PROVIDE BRICK WALL TIES @ 16" O.C.
CMU WALL	8" OR 12" CONCRETE MASONRY WALL. SEE PLAN FOR WALL WIDTH CHANGES SEE LIFE SAFETY PLAN FOR FIRE RATING
0000000000 SOUND ATTENUATION PARTITION	8" OR 12" CONCRETE MASONRY WALL WITH FOAM FILL SOUND ATTENUATION
EXISTING	EXISTING TO REMAIN

	SYMBOLS	LEGEND
A200	ROOM NUMBER	DOOR TYPE DOOR RATING HARDWARE SYMBOL
FEC	RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	A ELEV. MARK A1.1 SHEET NUMBER
DS/SB	DOWNSPOUT/ SPLASHBLOCK	SECT. MARK A1.1 SHEET NUMBER
+	INTERIOR FLOOR ELEVATION	5——ELEV. MARK
F.D.	FLOOR DRAIN	A5.1 SHEET NUMBER INT. ELEVATION
EWC	ELECTRIC WATER COOLER	A EXTERIOR WINDOW
МВ	MARKER BOARD	1 STOREFRONT
ТВ	TACK BOARD	INTERIOR WINDOW
LMB	LINED MARKER BOARD	1 ARCHITECTURAL LOUVER
VC	VIDEO CAMERA	NEW DOOR AND SWING
CJ	CONTROL JOINT	EXISTING DOOR
EJ	EXPANSION JOINT	GR GUARDRAILING
WA	WIND ANGLE	AREA OF CONCRETE

NOTE: SLOPE ALL SIDEWALKS AWAY FROM BUILDING 1/4:12

JOB NO. 22-47В

SHEET NO:

A2.1

3 OF 23



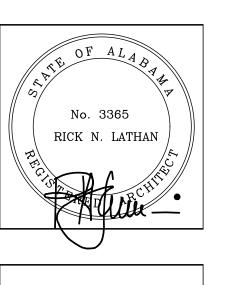


NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 3626

JACKSONVILLE CITY SCHOOLS



SHEET TITLE:
ENLARGED PLAN DETAIL

PROJ. MGR.: S. CALMA

DRAWN: C. BRYANT

DATE: NOVEMBER 3, 2023

REVISIONS

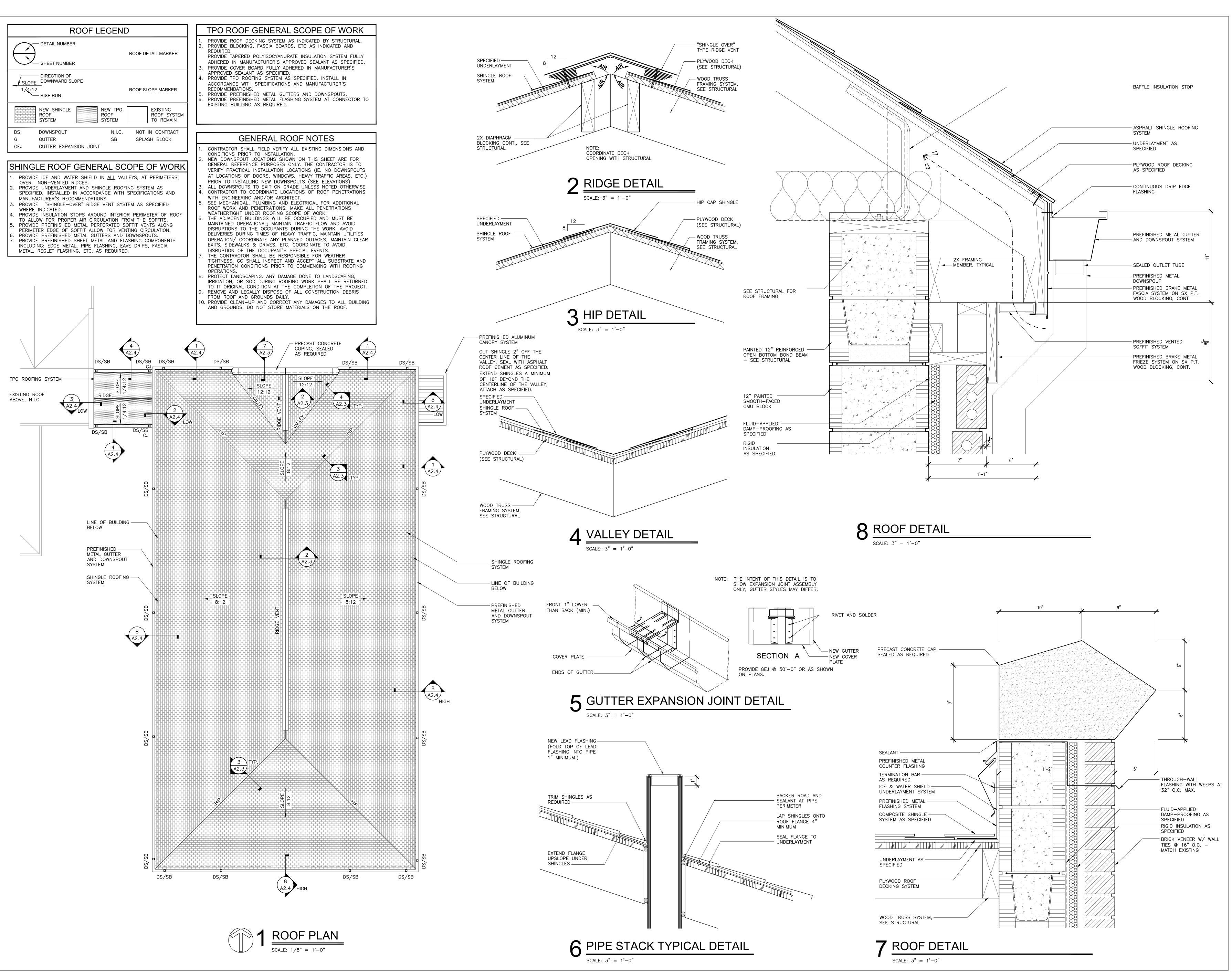
REVISIONS

JOB NO. 22-47B

SHEET NO:

A2.24 OF 23

0 1"





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No. 3365

RICK N. LATHAN

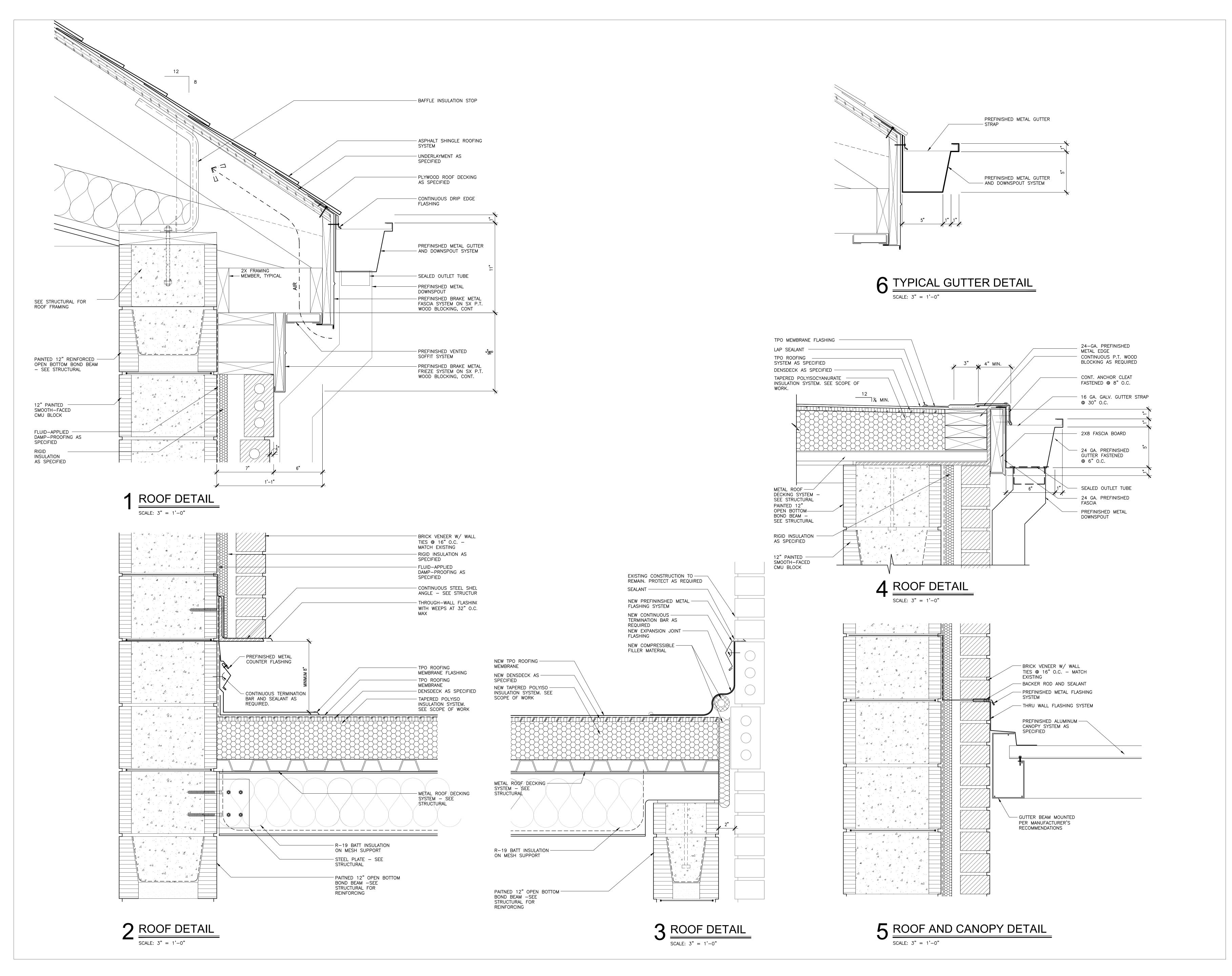
SHEET TITLE: ROOF PLAN AND DETAILS

PROJ. MGR.: S. CALMA DRAWN: E.B. / C.B. DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B** SHEET NO:

A2.3

5 OF 23



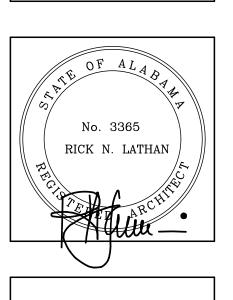


JACKSONVILLE HIGH SCHOOL

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 362

JACKSONVILLE CITY SCHOOLS

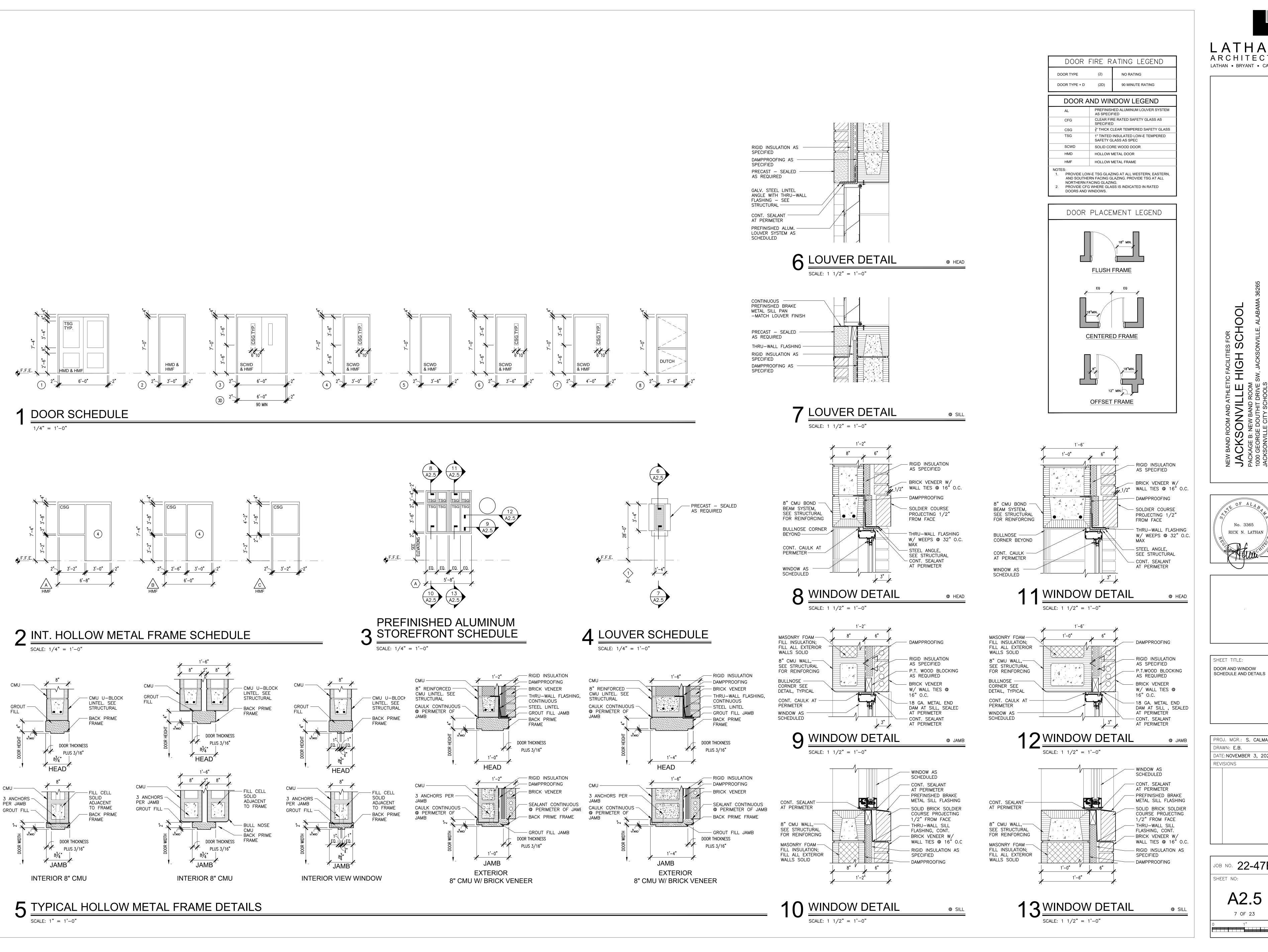


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SHEET TITLE:
ROOF DETAILS

PROJ. MGR.: S. CALMA
DRAWN: E.B.
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. **22-47B**SHEET NO: **A2.4**6 OF 23

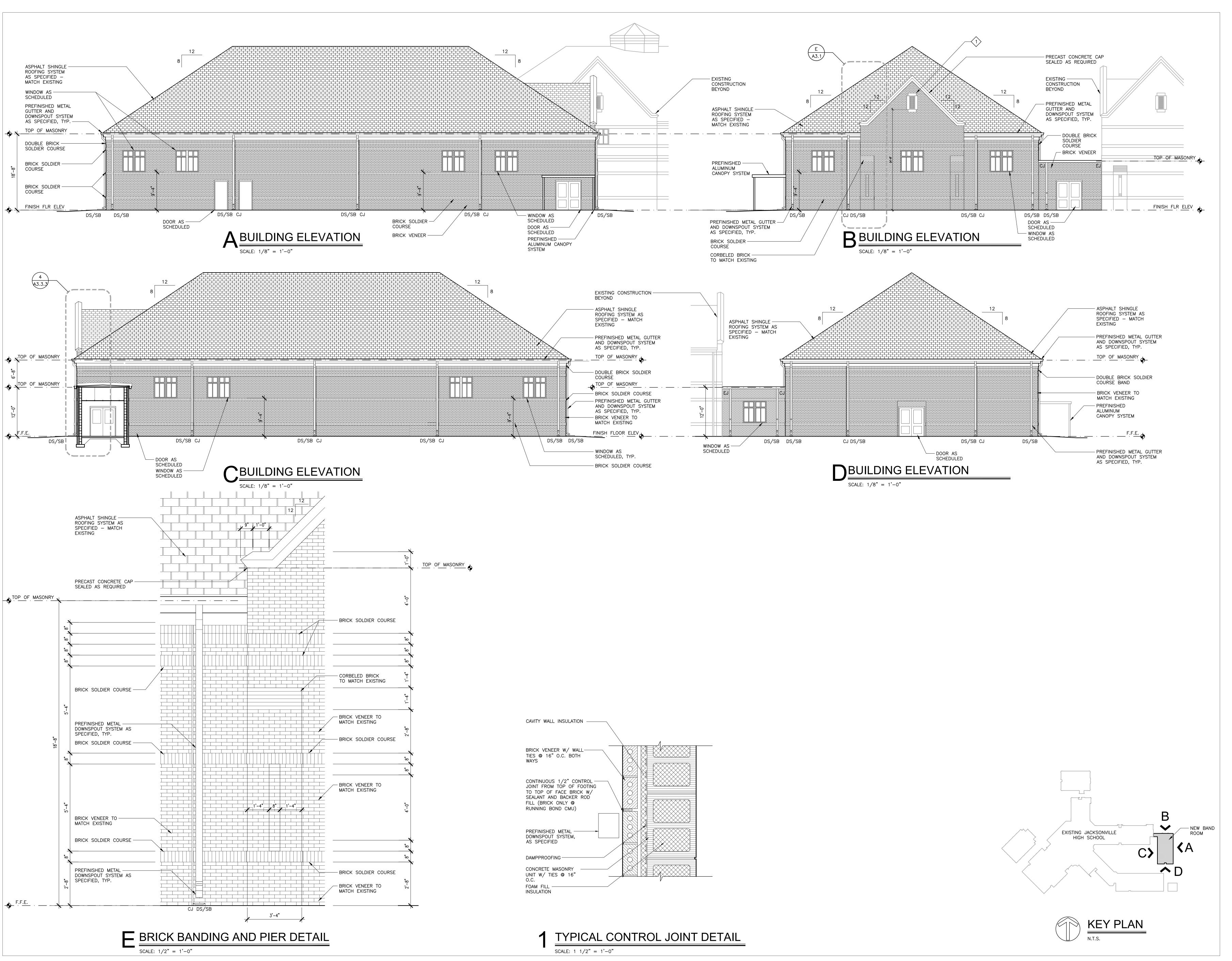


ARCHITECTS LATHAN - BRYANT - CALMA

> PROJ. MGR.: S. CALMA DRAWN: E.B. DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B**

SHEET NO: A2.5 7 OF 23



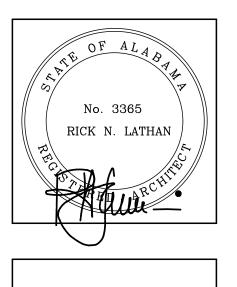


NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36

JACKSONVILLE CITY SCHOOLS

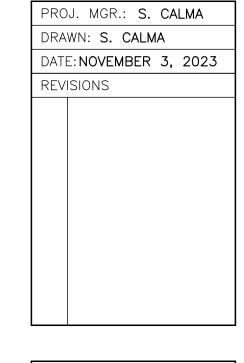


SHEET TITLE:
BUILDING ELEVATIONS,
ENLARGED ELEVATION, AND
DETAIL

PROJ. MGR.: S. CALMA

DRAWN: S. CALMA

DATE: NOVEMBER 3, 2023

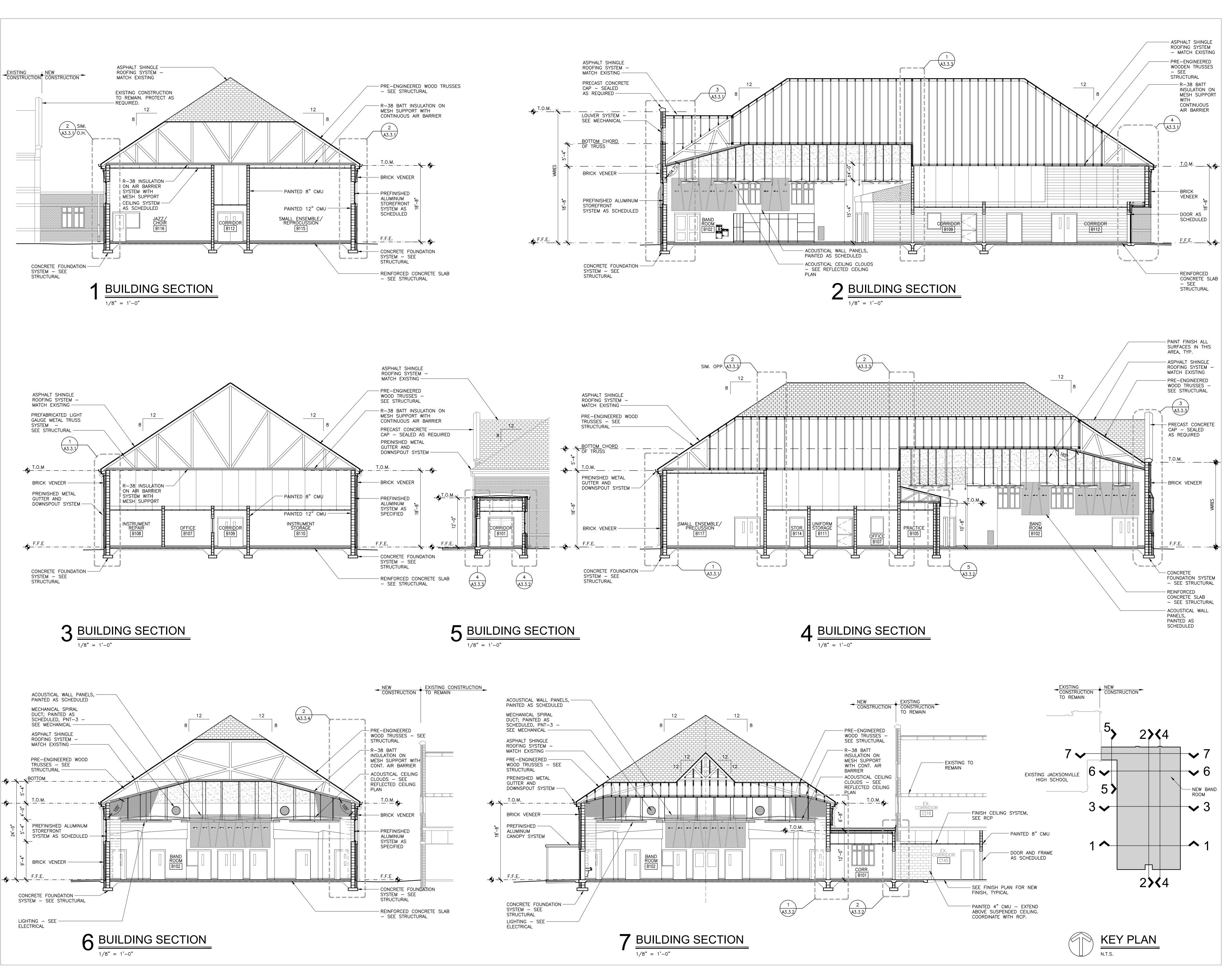


JOB NO. 22-47B

SHEET NO:

A3.1

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LATHAN ARCHITECTS LATHAN • BRYANT • CALMA

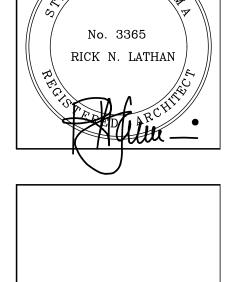
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265

JACKSONVILLE CITY SCHOOLS



SHEET TITLE:
BUILDING SECTIONS

PROJ. MGR.: S. CALMA

DRAWN: E.B. / C.B.

DATE: NOVEMBER 3, 2023

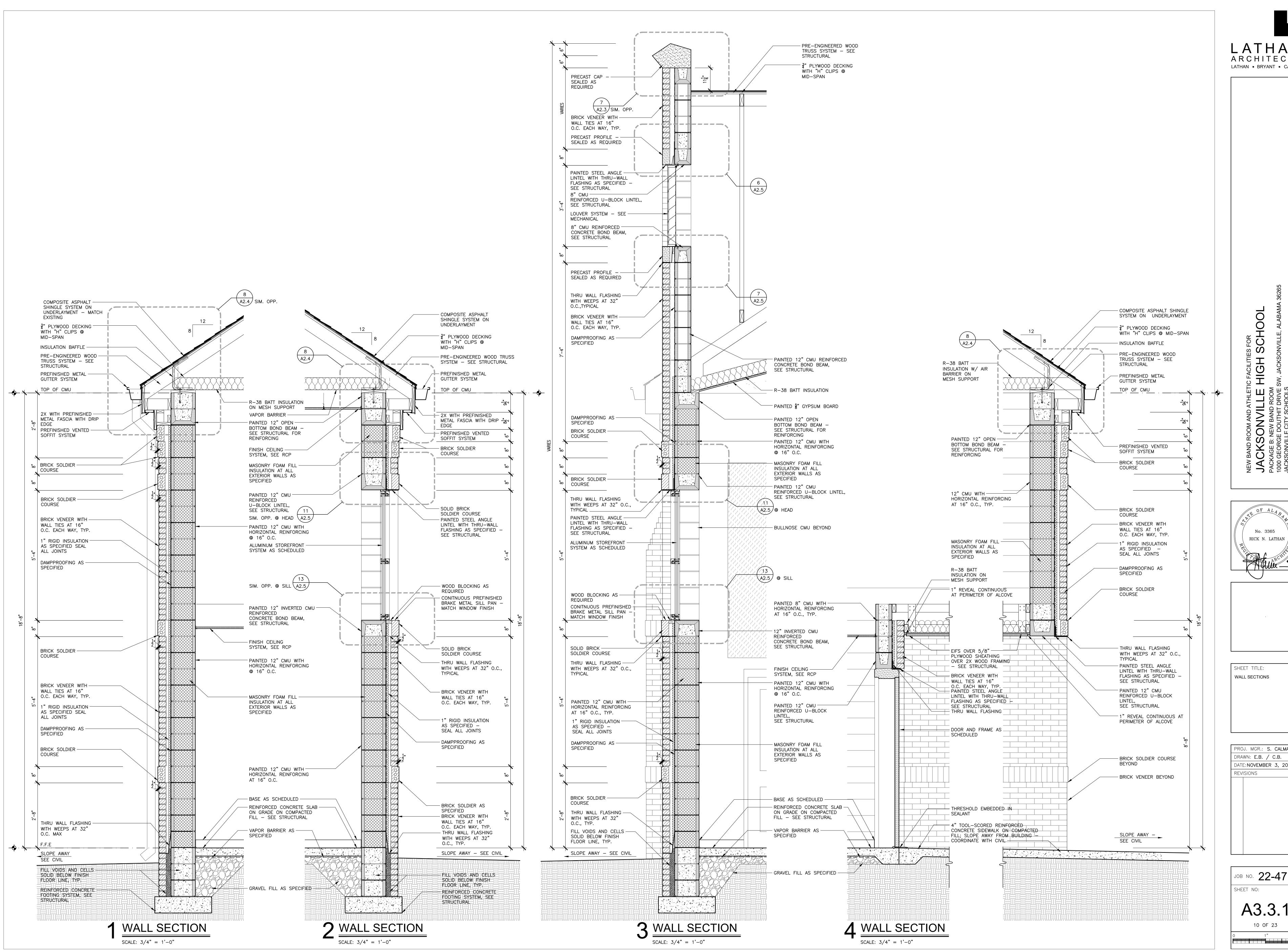
REVISIONS

JOB NO. 22-47B

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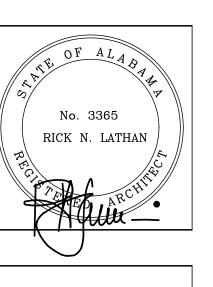
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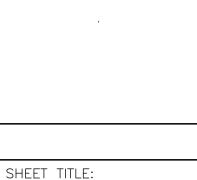
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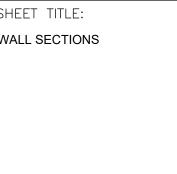




JACKSONVILLE
PACKAGE B: NEW BAND ROO
JACKSONVILLE CITY SCHOOL

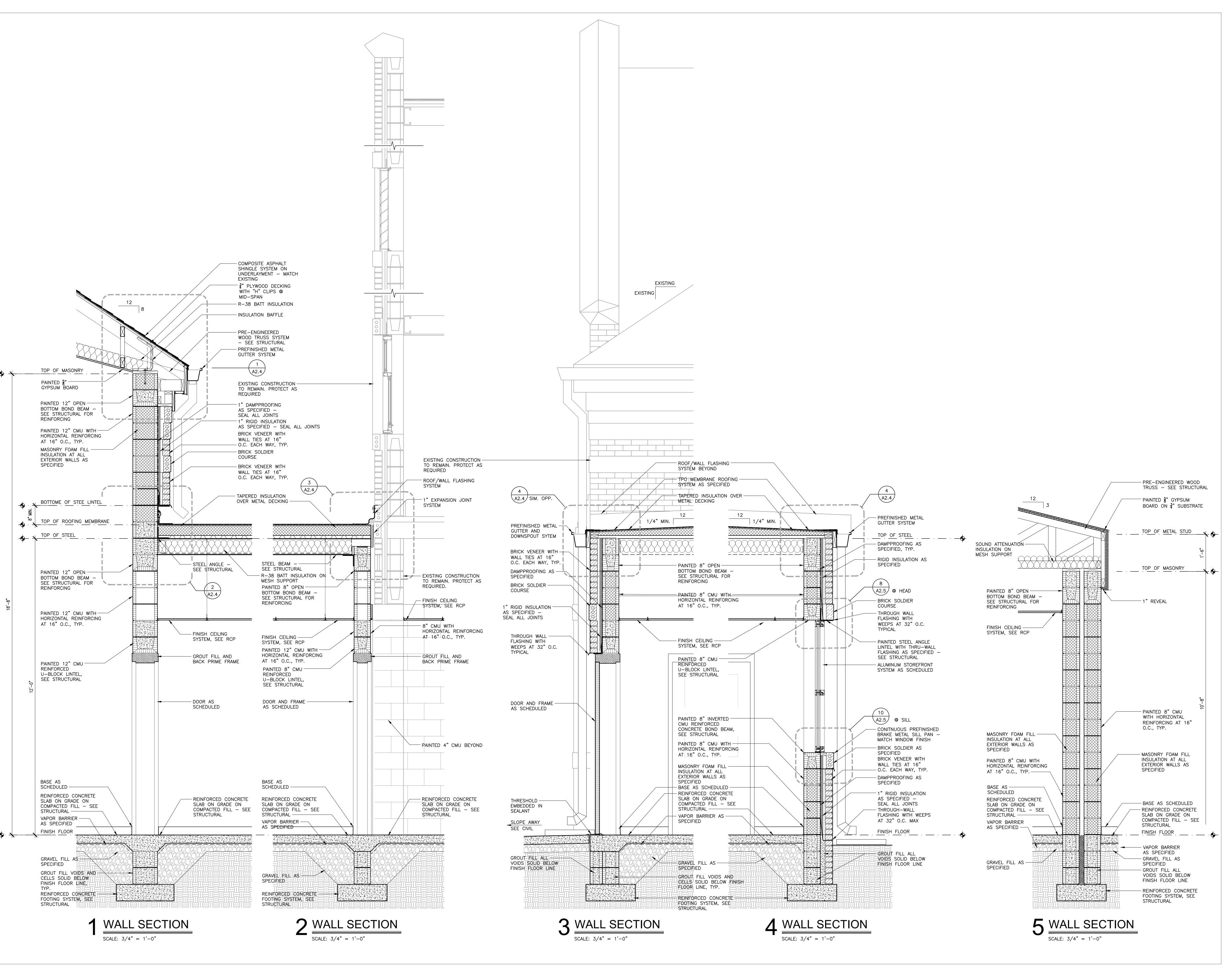






PROJ. MGR.: S. CALMA
DRAWN: E.B. / C.B.
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. **22-47B**

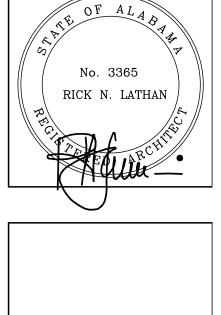


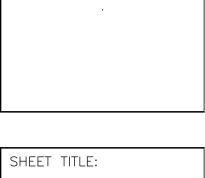


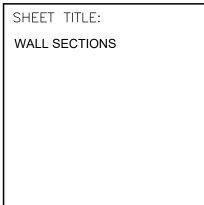
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

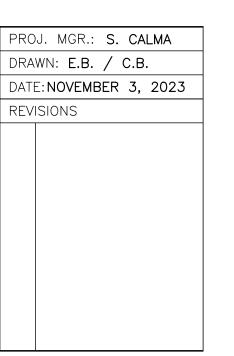
JACKSONVILLE HIGH SCHOC

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALAB
JACKSONVILLE CITY SCHOOLS







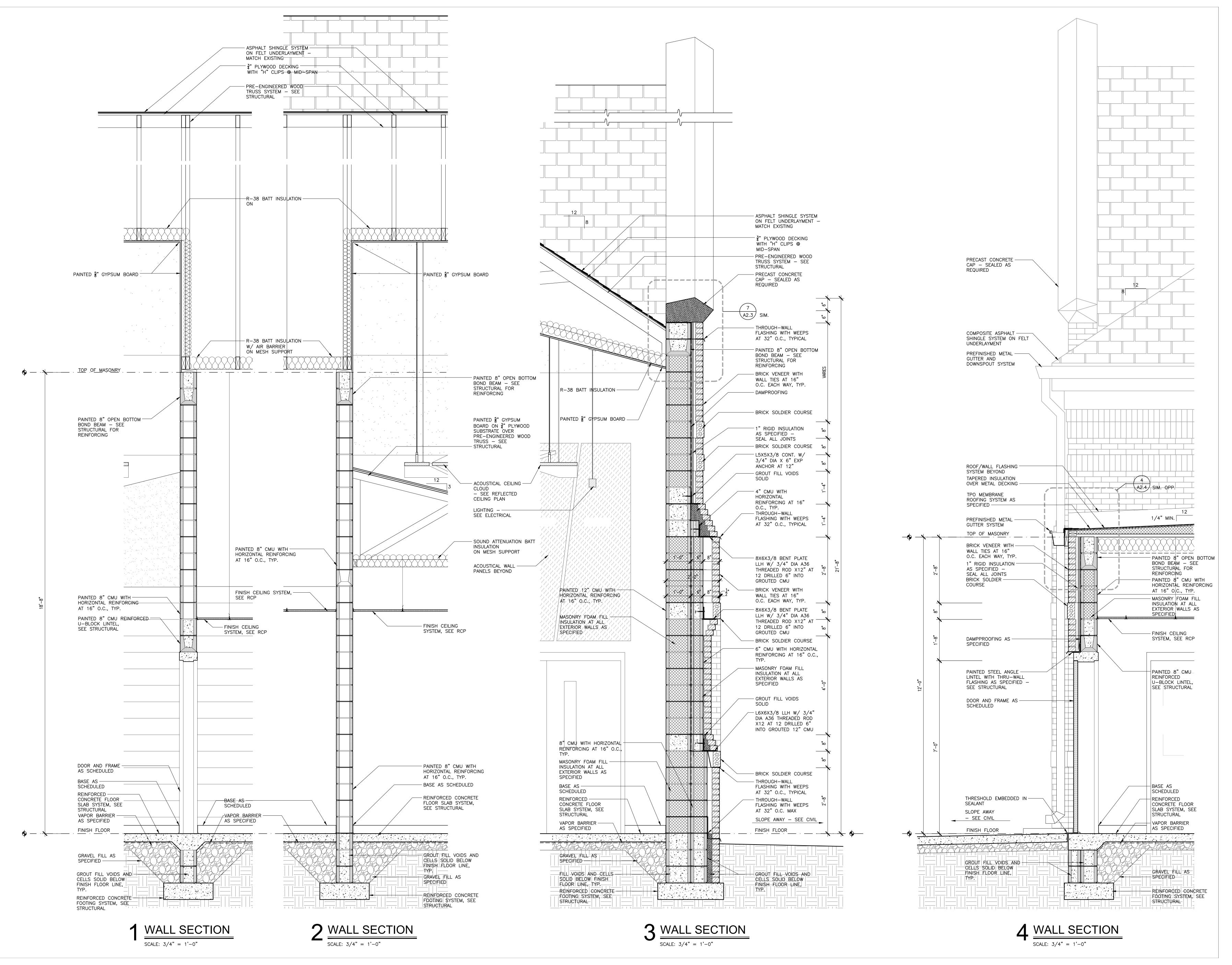


JOB NO. 22-47B

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11 OF 23





NEW BAND ROOM AND ATHLETIC FACIL

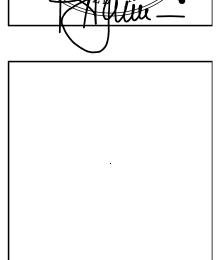
JACKSONVILLE HIGI

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JAC

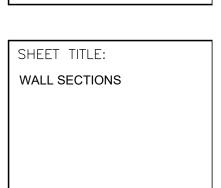
JACKSONVILLE CITY SCHOOLS

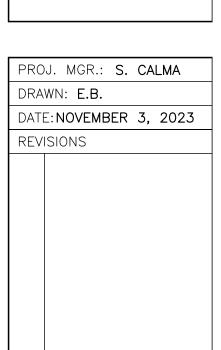
SCHO(



No. 3365

RICK N. LATHAN

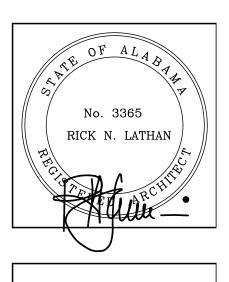








ES FOR SCHOOL JACKSONVILLE H
PACKAGE B: NEW BAND ROOM
1000 GEORGE DOUTHIT DRIVE S'
JACKSONVILLE CITY SCHOOLS

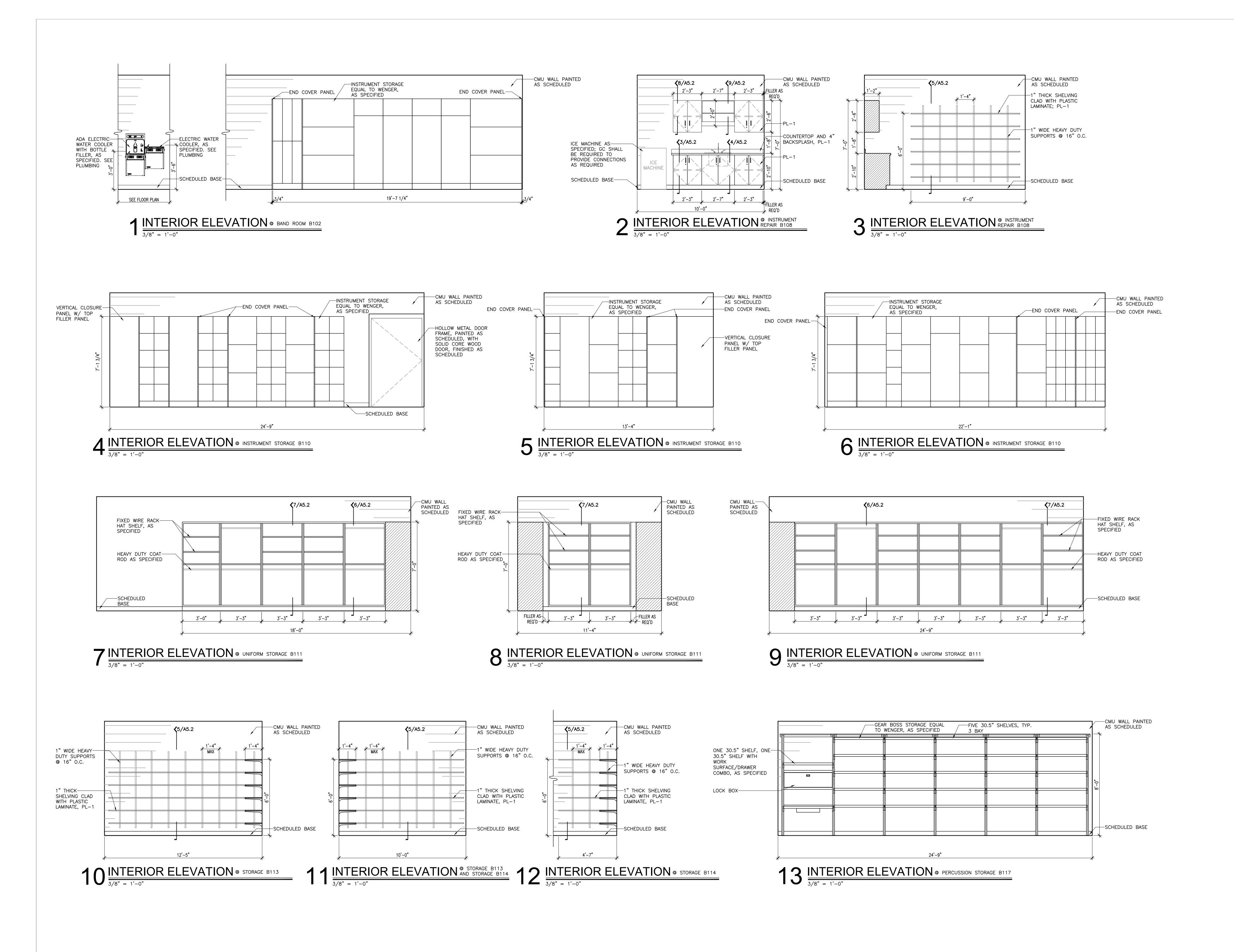


SHEET TITLE:

PROJ. MGR.: S. CALMA DRAWN: E.B. / C.B. DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B**

SHEET NO: A3.3.4





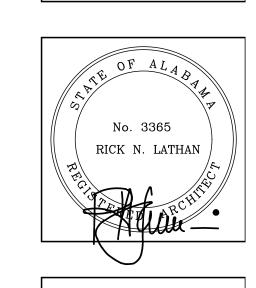
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

PACKAGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36

JACKSONVILLE CITY SCHOOLS



SHEET TITLE:
INTERIOR ELEVATIONS

PROJ. MGR.: S. CALMA

DRAWN: K. JOINER

DATE: NOVEMBER 3, 2023

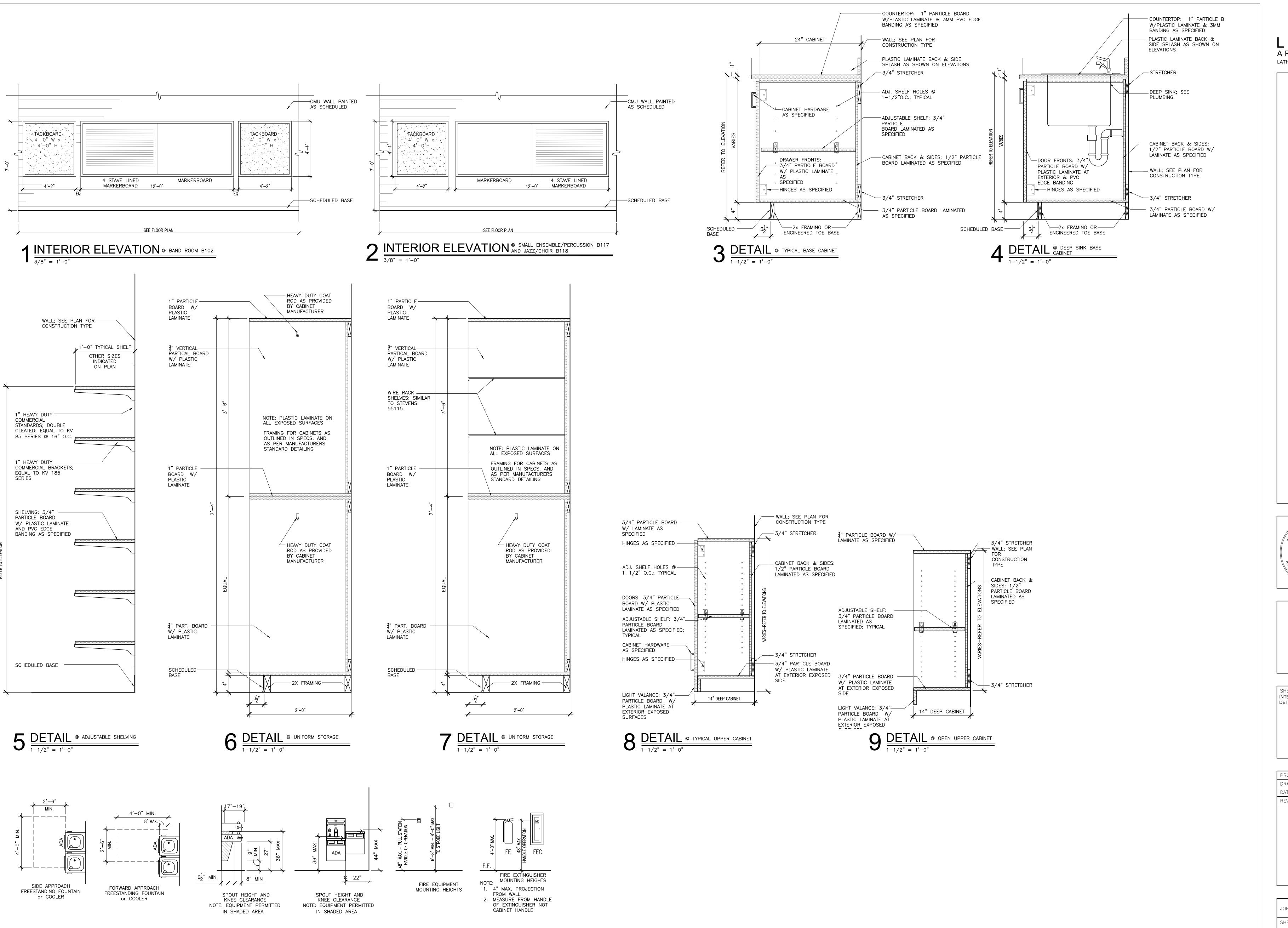
REVISIONS

JOB NO. 22-47B

SHEET NO:

A5.1

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TYPICAL ADA DETAILS

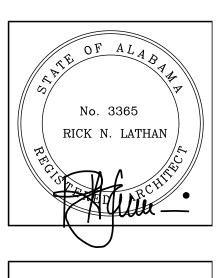
3/8" = 1'-0"

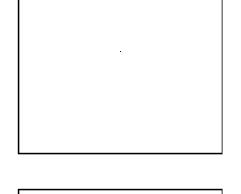
LATHAN ARCHITECTS LATHAN • BRYANT • CALMA

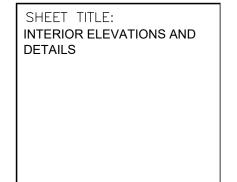
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

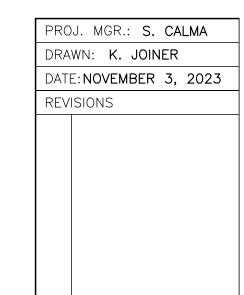
JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 3
JACKSONVILLE CITY SCHOOLS









JOB NO. 22-47B

SHEET NO:

A5.2

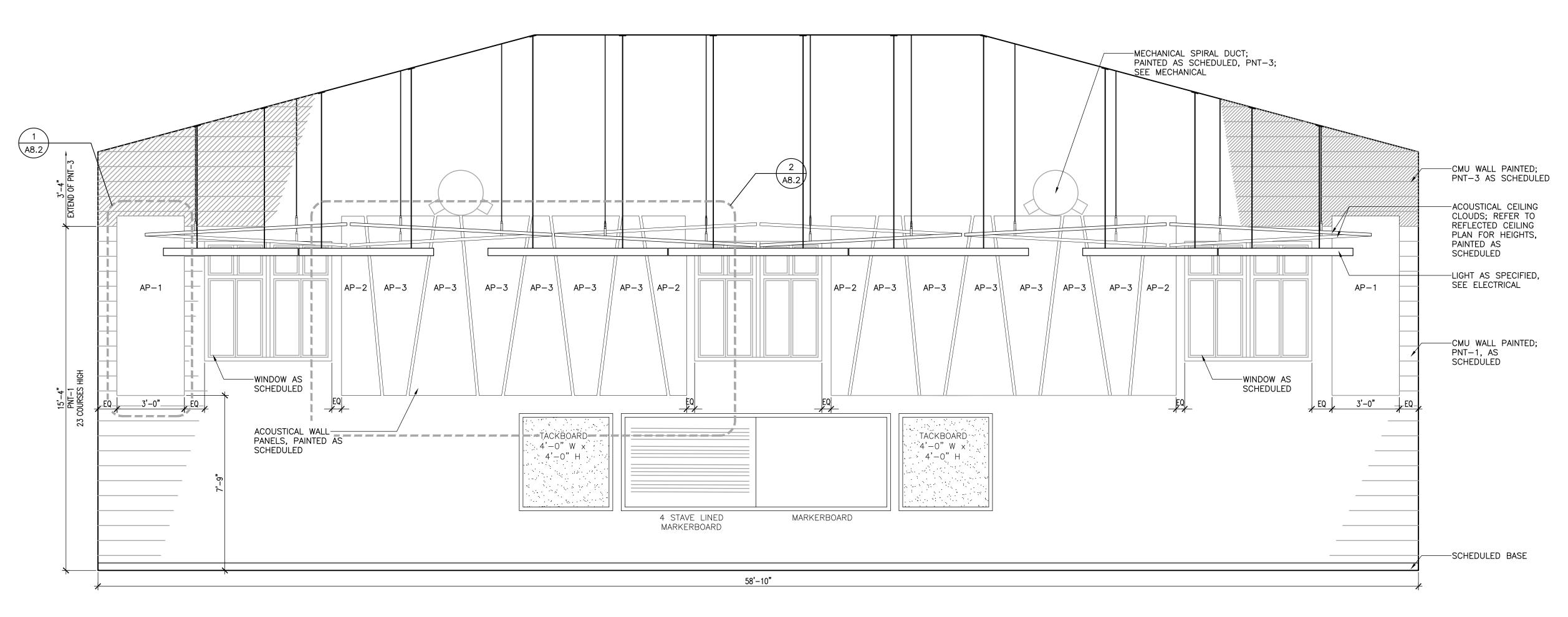
15 OF 23

DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. **22-47B**SHEET NO:

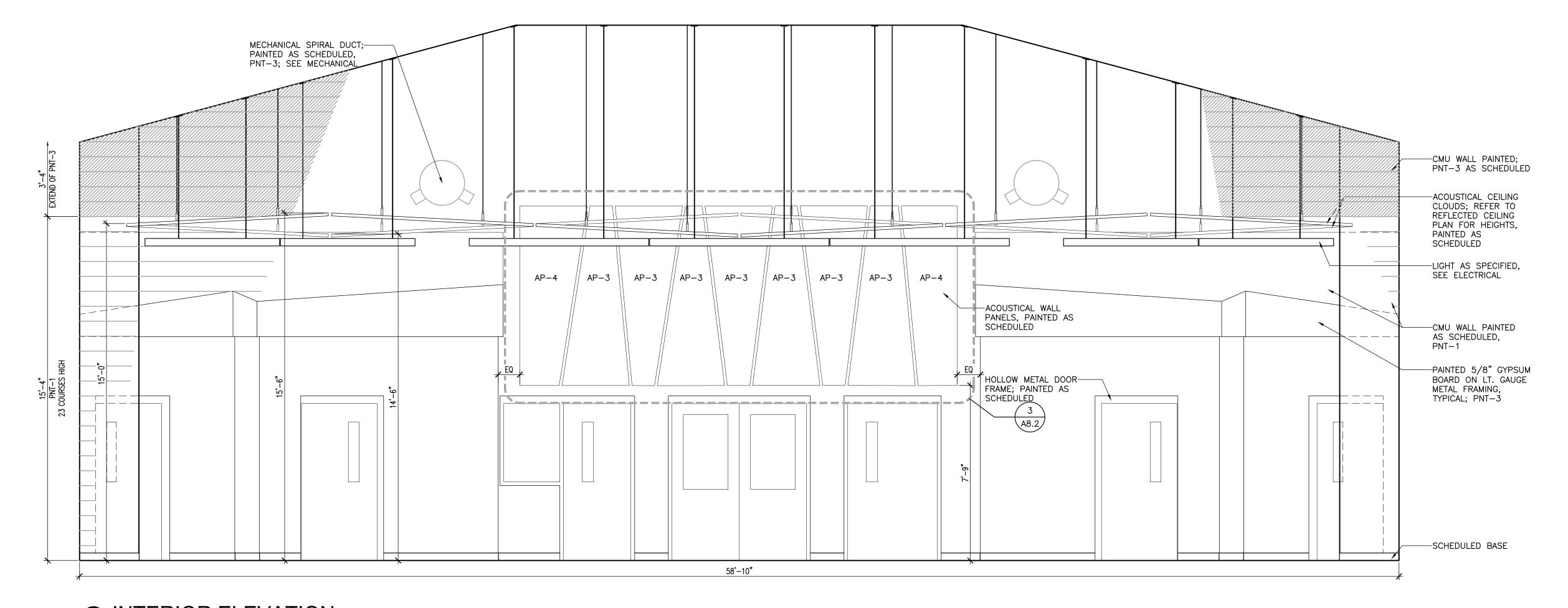
A5.3

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1 INTERIOR ELEVATION @ BAND ROOM B102

3/8" = 1'-0"



2 INTERIOR ELEVATION @ BAND ROOM B102

3/8" = 1'-0"

PROJ. MGR.: S. CALMA

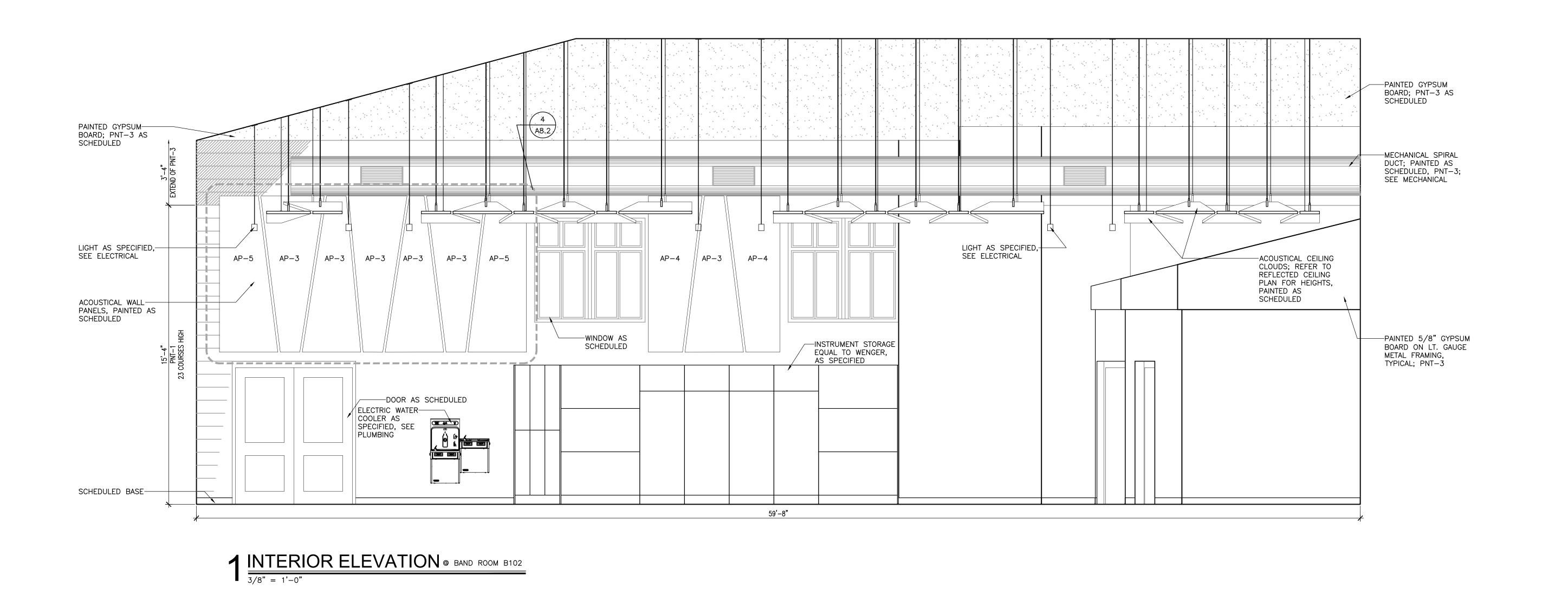
DRAWN: K. JOINER

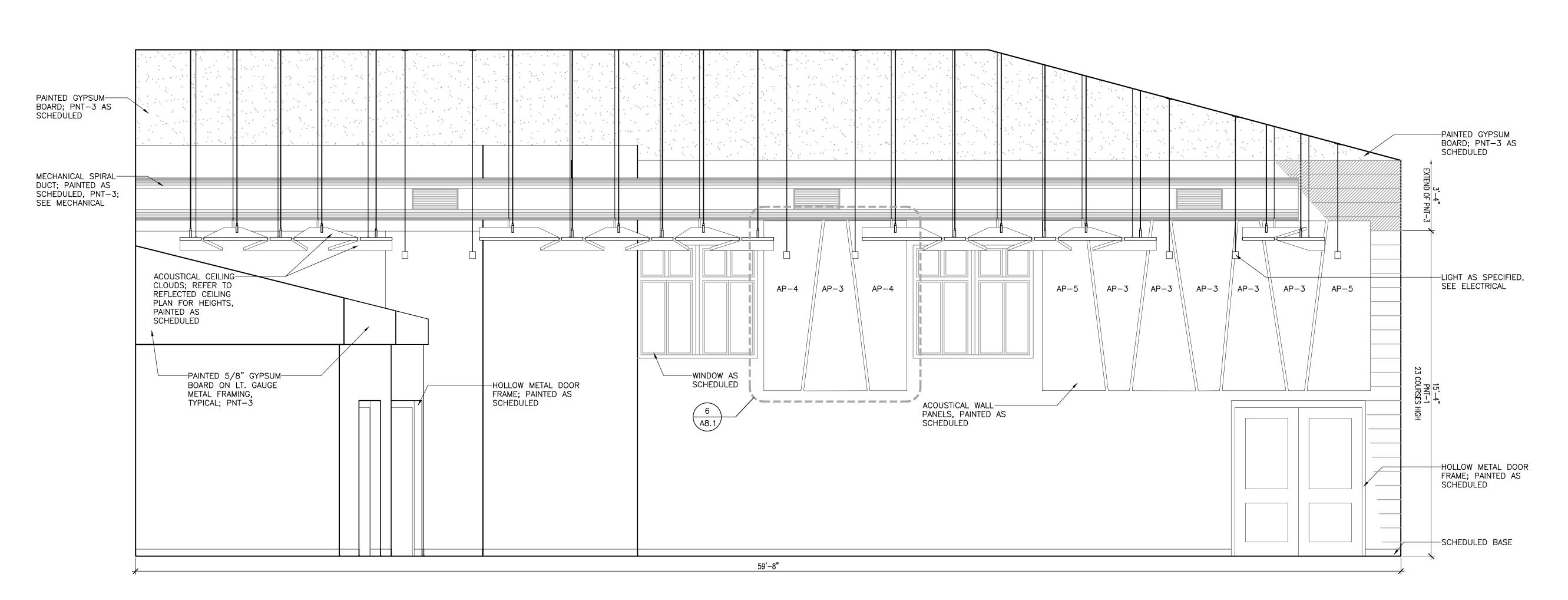
DATE:NOVEMBER 3, 2023

REVISIONS

JOB NO. **22-47В**SHEET NO:

A5.4
17 OF 23

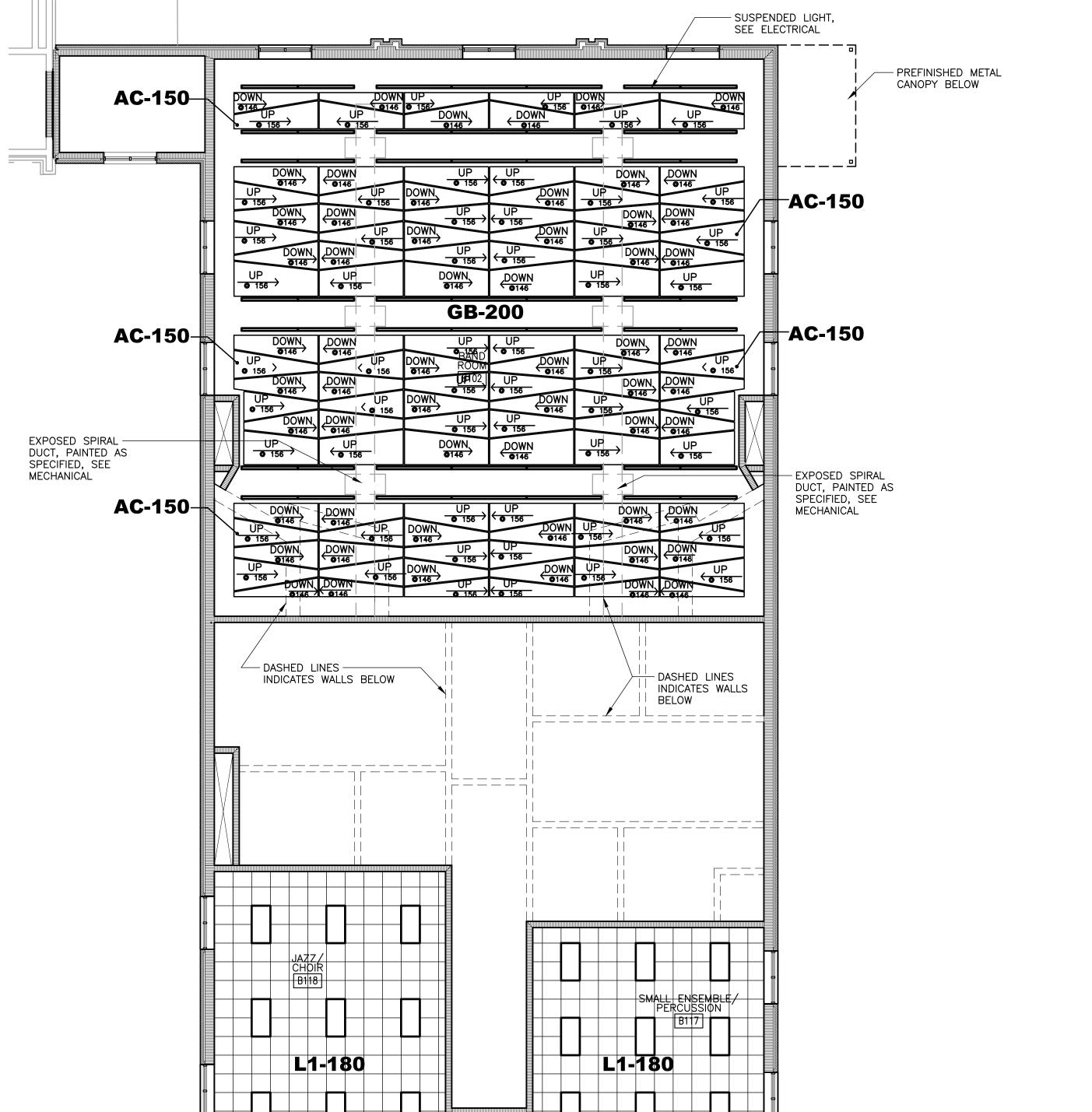




2 INTERIOR ELEVATION © BAND ROOM B102

3/8" = 1'-0"





2 REFLECTED CEILING PLAN

CEILING NOTES	CEILING LEGEN	ID		
ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X" FIRE ALL RATED GYPSUM BOARD AND COMMUNICATION ALL RATED GYPSUM BOARD AND COMMUNICATION ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X" FIRE ALL RATED G	FIXTURE TYPES - SEE ELECTRICAL			
RATED GYPSUM BOARD. ALL GYPSUM BOARD WITHIN GYMNASIUM TO BE IMPACT RESISTANT	CEILING TYPE	CEILING HEIGHTS		
2. COORDINATE W/ MECH. PLUMBING, & ELECTRICAL DRAWINGS	GB - GYPSUM BOARD, PAINTED AS SCHEDULED	80 = 8'-0" AFF		
AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE	L1 - 2 x 2 ACOUSTICAL LAY-IN , AS SPECIFIED	90 = 9'-0" AFF		
MECHANICAL, PLUMBING, & ELECTRICAL SYSTEMS.	NC - NO CEILING	150 = 15'-0" AFF		
3. AFF - ABOVE FINISHED FLOOR	V - VARIES	180 = 18'-0" AFF		
4. ALL CEILING HEIGHTS INDICATED ARE FROM ADJACENT	AC - ACOUSTICAL CLOUDS, AS SPECIFIED	186 = 18'-6" AFF		
FINISHED FLOOR.	PFMC - PREFINISHED METAL CANOPY	200 = 20'-0" AFF		
5. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.	REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS			
ALL AREAS INDICATING NEW CEILING TO IMPLY DEMOLITION OF EXISTING CEILING SYSTEMS AS REQ'D THAT AREA.	CEILING — GB-90			
ALL CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.	/			
	CEILING HEIGHT			

RICK N. LATHAN

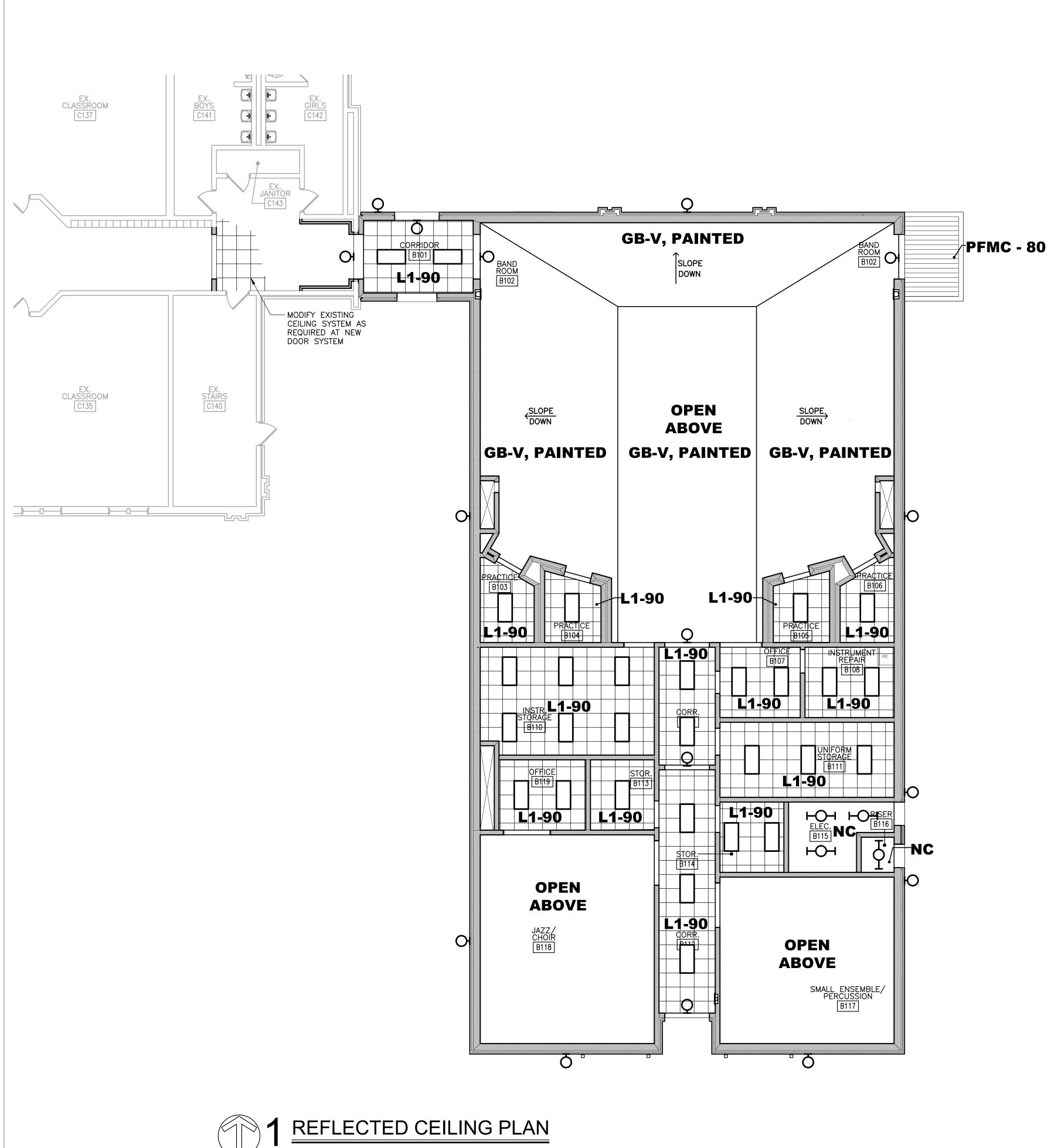
ES FOR SCHOOL

HIGH

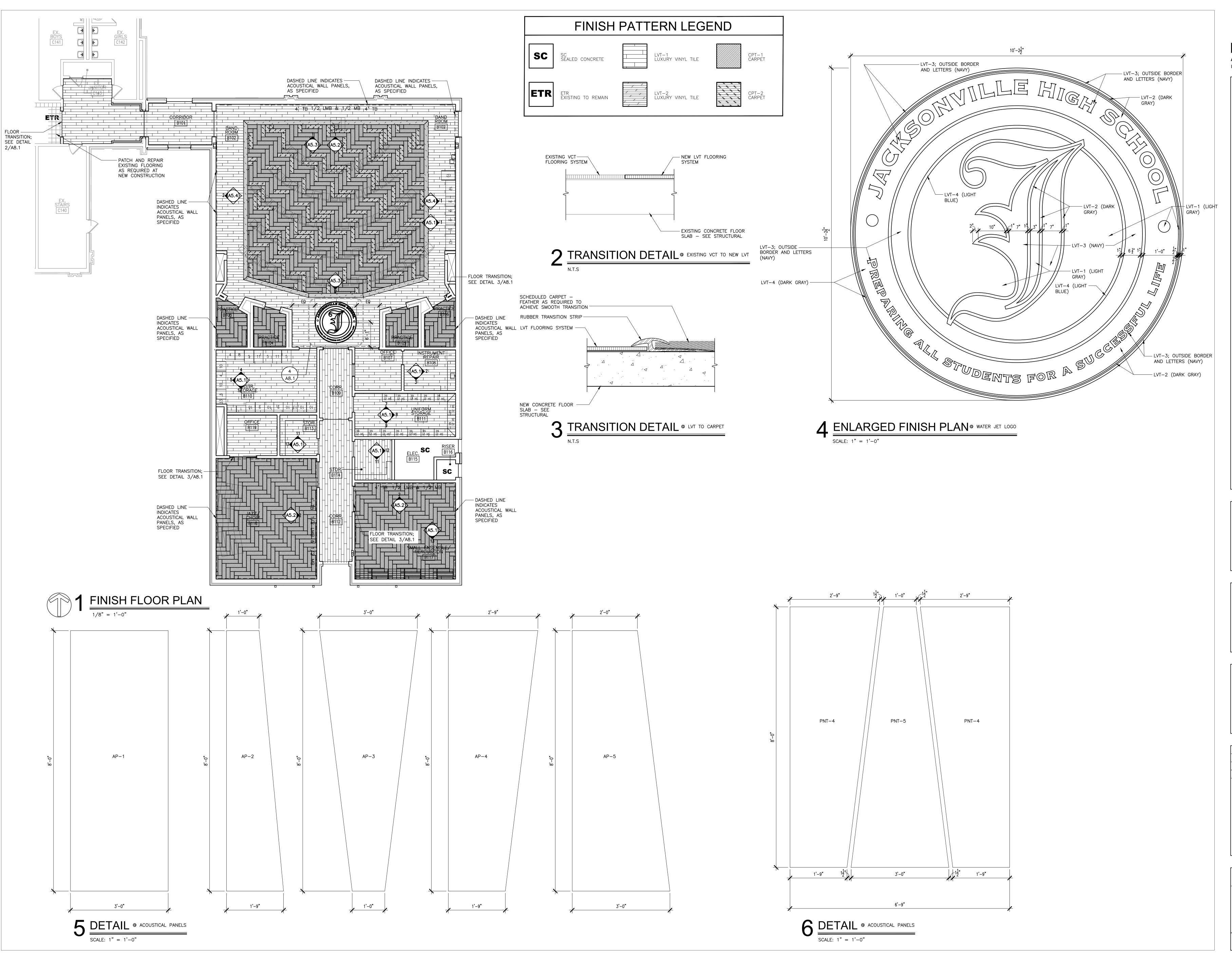
PROJ. MGR.: S. CALMA DRAWN: K. JOINER DATE: NOVEMBER 3, 2023 REVISIONS

SHEET TITLE:
REFLECTED CEILING PLANS
AND LEGENDS

JOB NO. **22-47B** SHEET NO:







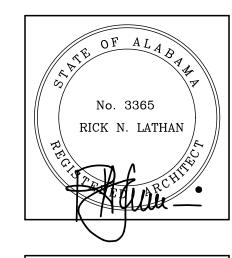


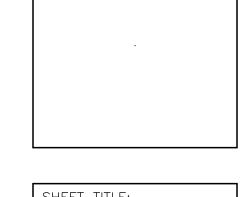
SAND ROOM AND ATHLETIC FACILITIES FOR

CKSONVILLE HIGH SCHOOL

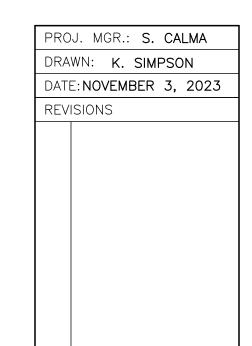
AGE B: NEW BAND ROOM

SEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36268



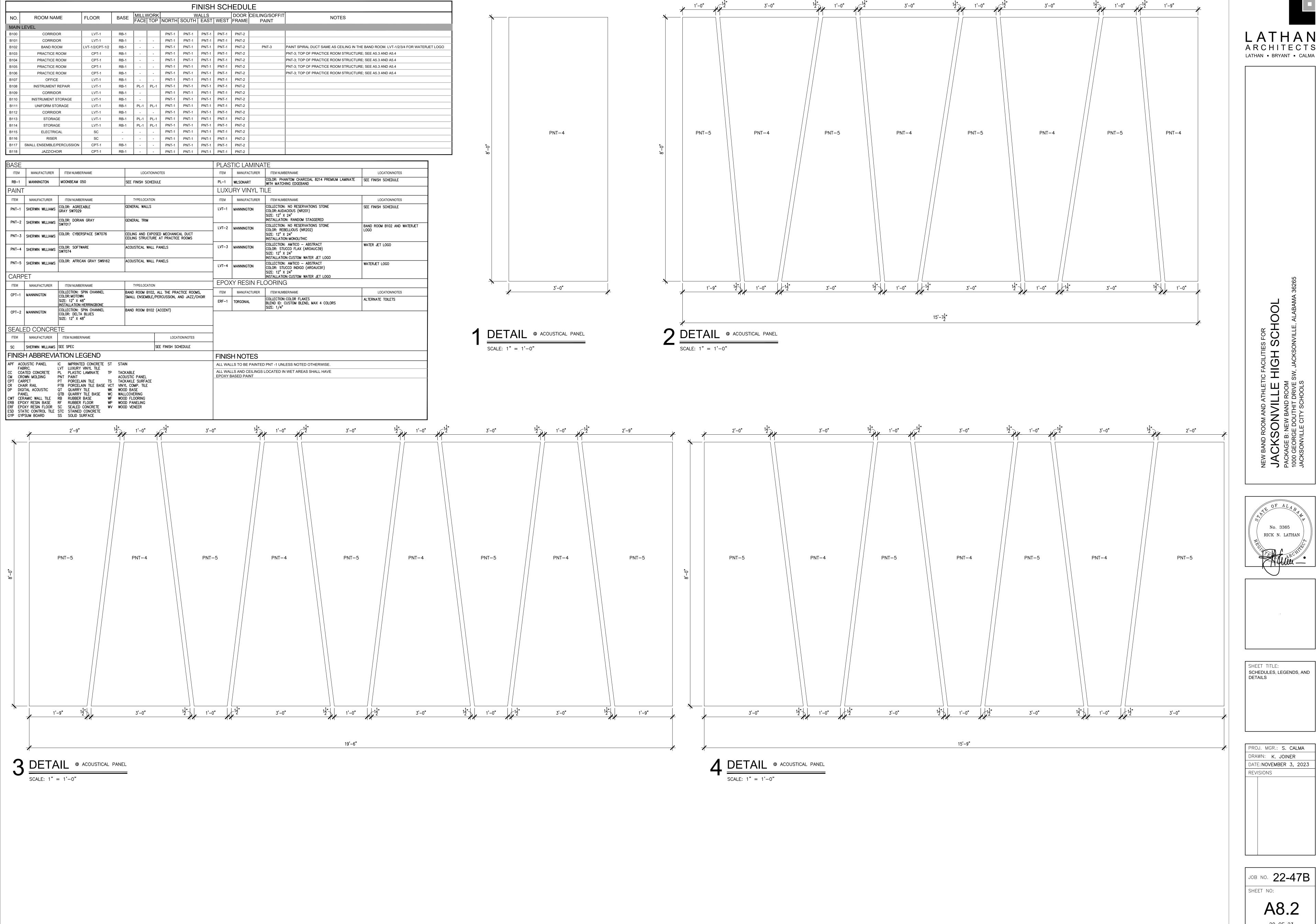


SHEET TITLE:
FINISH FLOOR PLAN,
LEGENDS, AND DETAILS



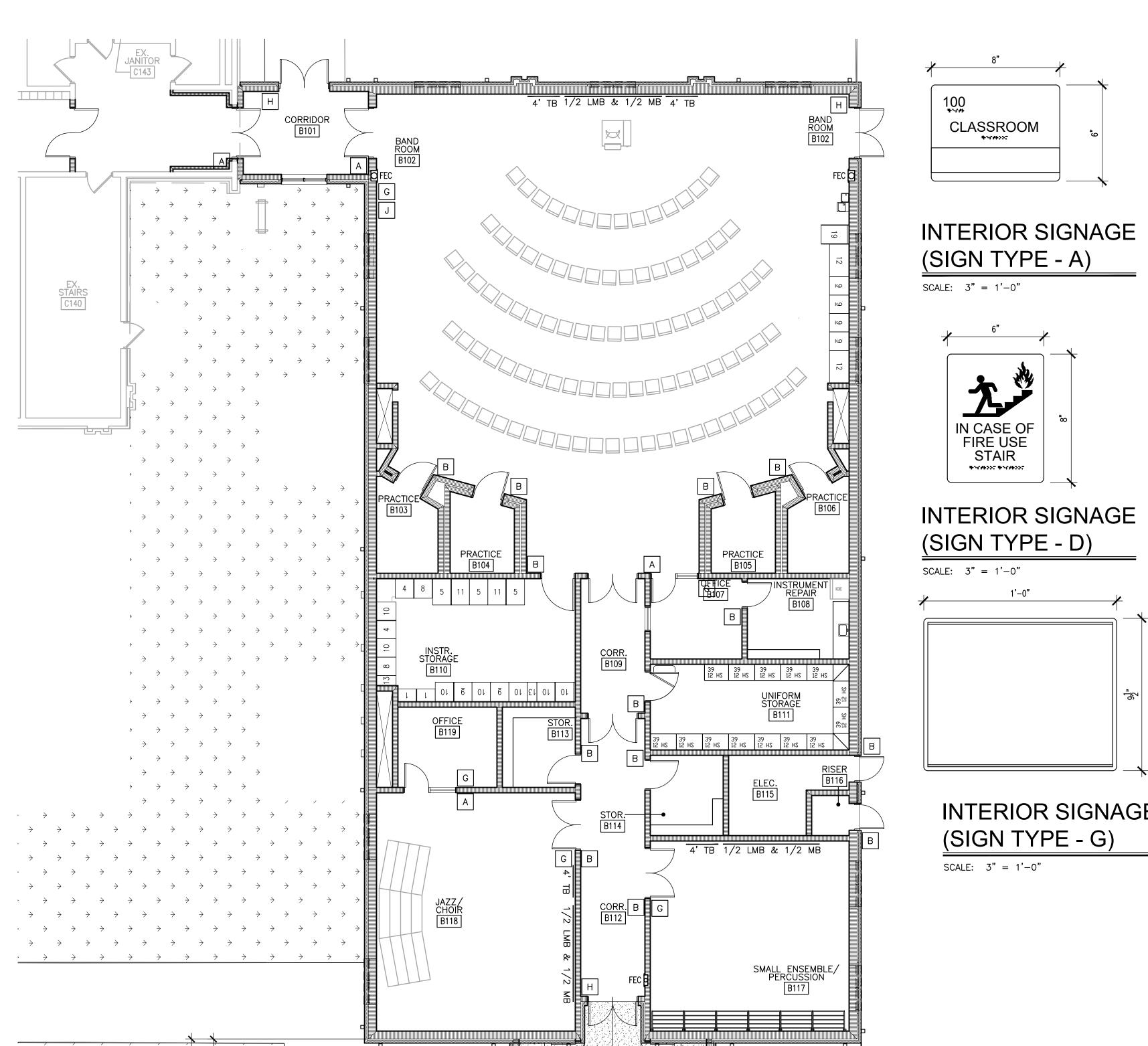
JOB NO. **22-47B**SHEET NO:

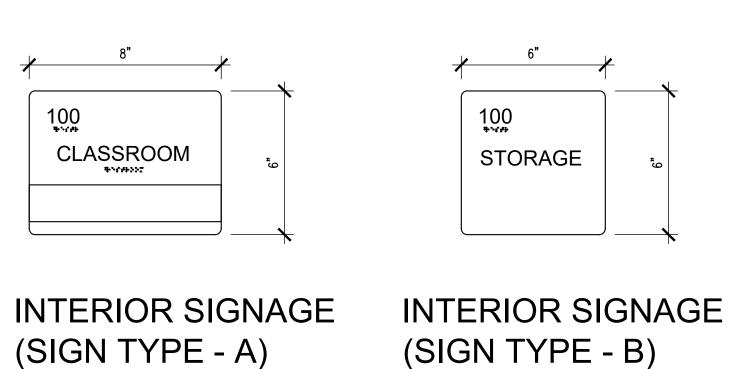
A8.119 OF 23



SCHEDULES, LEGENDS, AND

PROJ. MGR.: S. CALMA DATE: NOVEMBER 3, 2023





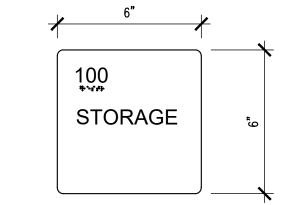
IN CASE OF FIRE USE

STAIR 45744302 45744302

INTERIOR SIGNAGE

(SIGN TYPE - G)

SCALE: 3'' = 1'-0''



SCALE: 3" = 1'-0"

STAIR

(SIGN TYPE - E)

SCALE: 3" = 1'-0"

EXIT *~/#>>:

INTERIOR SIGNAGE

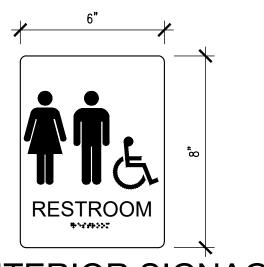
INTERIOR SIGNAGE

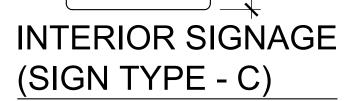
(SIGN TYPE - H)

SCALE: 3" = 1'-0"





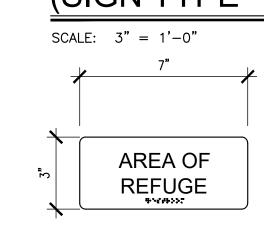


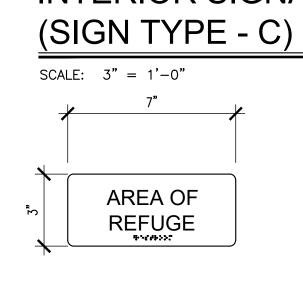


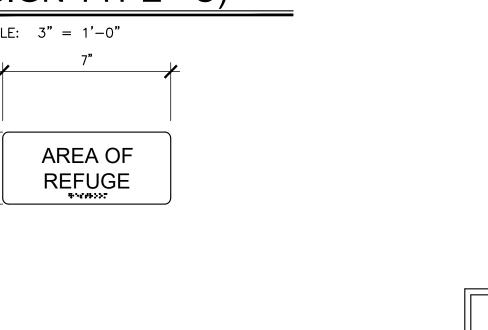
INTERIOR SIGNAGE

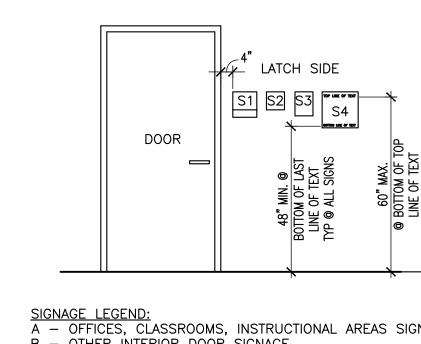
(SIGN - TYPE J)

SCALE: 3" = 1'-0"









SIGNAGE LEGEND:

A — OFFICES, CLASSROOMS, INSTRUCTIONAL AREAS SIGNAGE

B — OTHER INTERIOR DOOR SIGNAGE

C — RESTROOM SIGNAGE W/ PICTOGRAM

D — EXTERIOR SIGNAGE

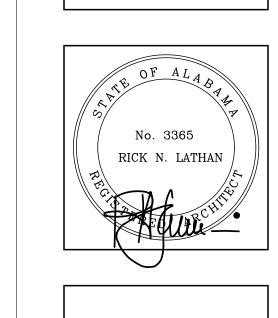
NOTE:
1. TYPICAL SIGNAGE LOCATION AND HEIGHTS SHOWN. SEE SPECIFICATIONS FOR SIGN SIZE AND REQUIREMENTS.
2. ALIGN TOP OF ALL SIGNS AS SHOWN, TYPICAL UNLESS OTHERWISE REQUIRED BY THE AMERICANS WITH DISABILITIES ACT.
3. SEE TORNADO SHELTER PLANS FOR SHELTER SIGNAGE IF APPLICABLE.

INTERIOR SIGNAGE TYPICAL ADA DETAIL

3/8" = 1'-0"

(SIGN TYPE - F) SCALE: 3" = 1'-0"MAXIMUM OCCUPANCY ********

ROOM SIGNAGE FLOOR PLAN



ES FOR SCHOOL

IC FACILITIE
HIGH

LATHAN ARCHITECTS

LATHAN - BRYANT - CALMA

INTERIOR SIGNAGE LEGEND

ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)

SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)

RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE

ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE

STAIR SIGNAGE WITH PICTOGRAM/BRAILLE

FRAMED CLEAR VIEW SIGNAGE (8.5X11)

TACTILE EXIT SIGN TO EXTERIOR (EXIT)

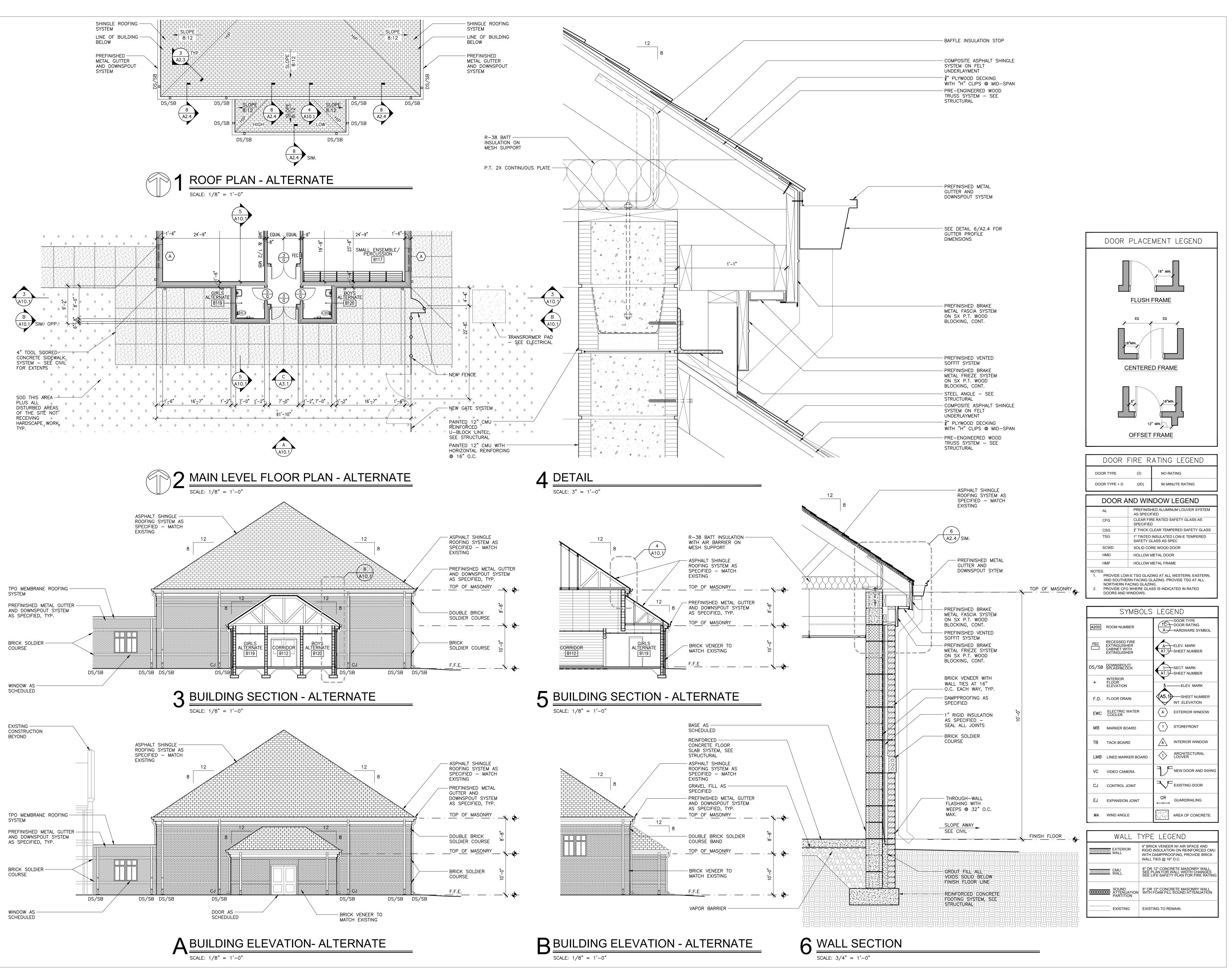
OCCUPANT LOAD SIGN (ASSEMBLY SPACES)

AREA OF REFUGE SIGN

ROOM SIGNAGE FLOOR PLAN, LEGEND, AND DETAILS

PROJ. MGR.: S. CALMA DRAWN: K. JOINER DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B**





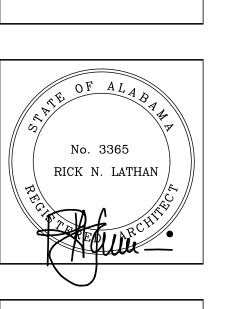
OOM AND ATHLETIC FACILITIES FOR

ONVILLE HIGH SCHOOL

NEW BAND ROOM

E DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265

LE CITY SCHOOLS



SHEET TITLE:
FLOOR PLAN, ROOF PLAN,
BUILDING ELEVATIONS,
BUILDING SECTIONS,
WALL SECTION, AND DETAIL

PROJ. MGR.: S. CALMA

DRAWN: C. BRYANT

DATE: NOVEMBER 3, 2023

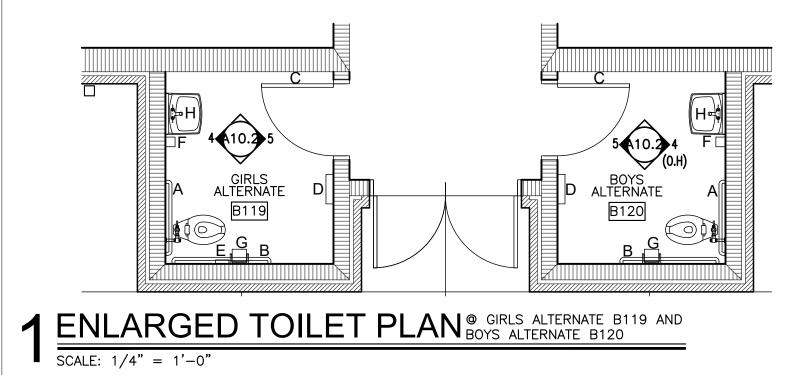
REVISIONS

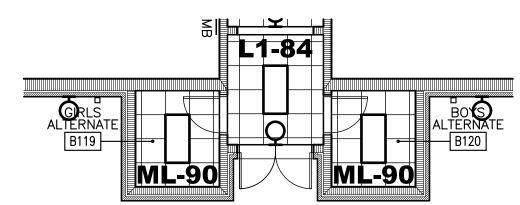
JOB NO. **22-47B**SHEET NO:

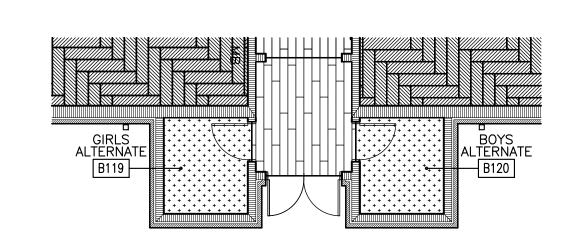
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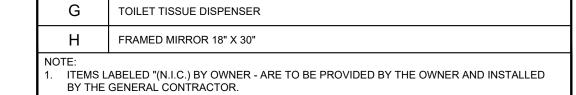
A10.1

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TOILET ACCESSORY LEGEND

C COAT HOOK (SHALL BE MOUNTED INSIDE STALL DOOR)

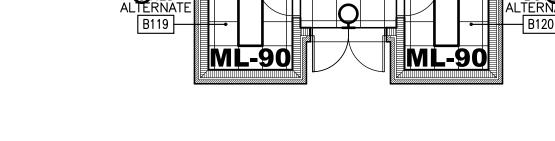
A 36" S.S. GRAB BAR

B 42" S.S. GRAB BAR

D ELECTRIC HAND DRYER

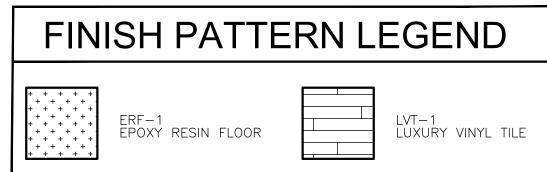
E FEMININE NAPKIN DISPOSAL

F SOAP DISPENSER - SURFACE MOUNT









PAPER ----

TOWEL DISP.

SOAP —

DISPENSER

— ADA HT. WATER CLOSET

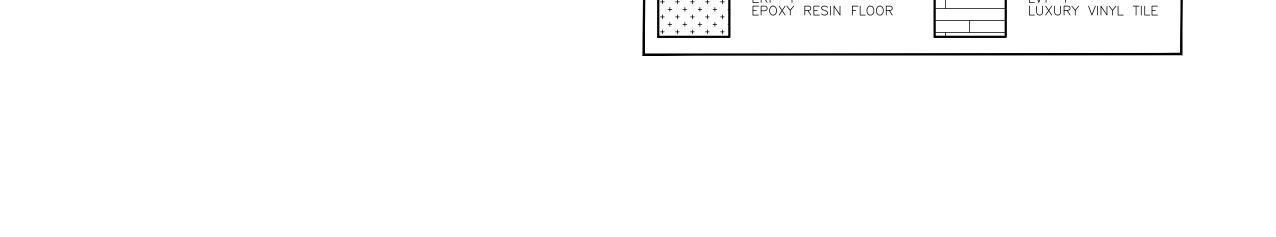
17" | WHEELCHAIR ACCESSIBLE
STALLS AND TOILETS

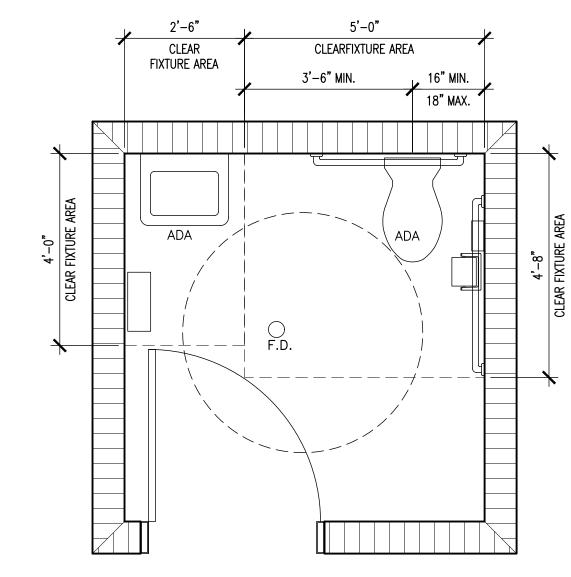
18" AMBULATORY STALLS

MIRROR —

WALL — HUNG LAV.

WRAP, TYP. ALL LAV.



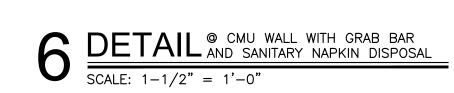


 DOOR AND 60" TURNAROUND RADIUS MAY OVERLAP.
 DOOR AND CLEAR FIXTURE AREAS MAY NOT OVERLAP.
 FIXTURE AREA FOR DIFFERENT FIXTURES MAY NOT 4. IN A GROUP TOILET WITH CMU PARTITION THE ADA TOILET MUST BE 5'-6" X 5'-6" MIN. OR THEIR MUST BE A 9" TOE SPACE PROVIDED AT THE PARTITIONS.

GRAB BARS PERADA		CMU WALL PAINTED AS SCHEDULED SOAP DISPENSER; OWNER PROVIDED, CONTRACTOR INSTALLED 18X30 FRAMED MIRROR AS SPECIFIED	PAPER TOWEL————————————————————————————————————	
TOILET TISSUE—DISPENSER; OWNER PROVIDED, CONTRACTOR INSTALLED SCHEDULED BASE—	WRAP-PIPES PER ADA SEE FLOOR PLAN	3'-4" 3'-4" TO BOTTOM '	SCHEDULED BASE	4'-0" MAX TO CONTROL







— 4 — #10 STAINLESS STEEL FLAT HEAD TEKS SCREWS

1½" O.D. GRAB BAR
 (SEE TOILET ACCESSORIES

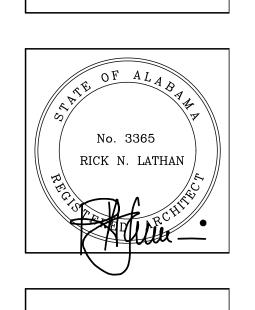
SPECIFICATIONS)

SANITARY NAPKIN DISPOSAL AS SPECIFIED — SEE PLAN FOR LOCATIONS



NAPKIN

	FINISH SCHEDULE											
NO.	ROOM NAME	FLOOR	BASE	MILLV			W SOUTH	ALLS EAST	WEST		CEILING/SOFFIT PAINT	NOTES
ALTE	RNATE											
B119	GIRLS ALTERNATE	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B120	BOYS ALTERNATE	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	_	
B121	HALL ALTERNATE	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		



IC FACILITIES FOR
HIGH SCHOOL

LATHAN ARCHITECTS LATHAN • BRYANT • CALMA

SHEET TITLE: ENLARGED TOILET PLANS, REFLECTED CEILING PLANS, FINISH FLOOR PLANS, INTERIOR ELEVATION, LEGENDS, SCHEDULES AND DETAILS - ALTERNATE

PROJ. MGR.: S. CALMA DRAWN: **K. Joiner** DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B** SHEET NO:

23 OF 23

A10.2

ARCHITECTS LATHAN - BRYANT - CALMA

0 9 S

||-3-2023

SHEET TITLE: GENERAL NOTES

PROJ. MGR.:		HCW
DRAWN:		SPH
DATE: NOVEMBER	3,	2023
REVISIONS		

JOB NO. **22-47B** SHEET NO:

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

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

C. ARCHITECTURAL PRECAST CONCRETE:

B CONCRETE:

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

PCI MNL-122 ARCHITECTURAL PRECAST CONCRETE, LATEST EDITION

PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS, LATEST EDITION

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

E. STEEL DECK: STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS

SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16). BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 402-16).

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION (NDS 2018 & SDPWS 2021)

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 1607.9 HAVE BEEN

TAKEN WHERE PERMITTED. FLOOR (REDUCIBLE)------100 MECHANICAL ROOM AND ATTIC-----125

C ROOF LIVE LOADS: WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.11

D. ROOF SNOW LOADS: GROUND SNOW LOAD (Pg)-----5.0 IMPORTANCE FACTOR (I)--

1.3 DESIGN LATERAL LOADS:

EXPOSURE FACTOR (Ce)--

THERMAL FACTOR (Ct)--

A. WIND LOADS: ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)-----113MPH BASIC WIND SPEED (3-SECOND GUST)-----90MPH WIND IMPORTANCE FACTOR (I)-----1.00 WIND EXPOSURE CATEGORY---INTERNAL PRESSURE COEFFICIENTS----- +/- 0.18 SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS B SEISMIC LOADS:

OCCUPANCY CATEGORY II (INTERMEDIATE ED WITH OCCUPANCY > 250) SEISMIC IMPORTANCE FACTOR-----1.25 MAPPED SPECTRAL RESPONSE ACCELERATIONS: S1-----0.094 SITE CLASS-----SPECTRAL RESPONSE COEFFICIENTS: SD1-----0.150 SEISMIC DESIGN CATEGORY-----BASIC SEISMIC-FORCE-RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS DESIGN BASE SHEAR: -----61KIPS SEISMIC RESPONSE COEFFICIENT, Cs -----0.0777 RESPONSE MODIFICATION FACTOR-----3.5

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE 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 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.

2.4 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.

2.5 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.

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

2.7 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.

2.8 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.

2.9 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE INPLACE 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.

3.0 FOUNDATIONS

3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, TITLED "PROPOSED JACKSONVILLE HIGH SCHOOL BAND ROOM PROJECT NO.E1235194 " 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: 2000 PSF.

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.

3.3 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.

3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS PROVIDED BY THE GEOTECHNICAL ENGINEER.

3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSH AND RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSH AND RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

3.6 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.

3.7 REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOTING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL FOOTING.

3.8 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.

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 AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED;

FOOTINGS-----2" TOP & 3" BOTTOM & SIDES COLUMNS, PIERS, & PEDESTALS-----1-1/2" CLEAR OF TIES FOUNDATION RETAINING WALLS-----2" BOTH FACES BEAMS-----1-1/2" CLEAR OF STIRRUPS SLAB FACES NOT EXPOSED TO WEATHER OR EARTH-----3/4" SLAB FACES EXPOSED TO WEATHER #5 AND LESS-----1-1/2" #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.

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

4.11 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.12 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.

4.13 EARTH SUPPORTED SLABS:

4" THICK (UNLESS NOTED), 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

EARTH SUPPORTED SLABS SHALL BE CURED PER ACI REQUIREMENTS USING A MEMBRANE FORMING CURING/SEALING COMPOUND OR MOIST CURING PROCESS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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. WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS, PROVIDE JOINT IN STEEL ELEMENT.

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

5.0 ARCHITECTURAL PRECAST CONCRETE

5.1 REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL, FINISHING, AND OTHER REQUIREMENTS OF THE ARCHITECTURAL PRECAST.

5.2 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

5.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.

A. CONNECTIONS OF THE PRECAST TO THE STRUCTURE SHALL NOT RESTRAIN THE STRUCTURE'S 1" DOWNWARD MOVEMENT AT ALL BEAMS AND 1" UPWARD MOVEMENT AT ROOF BEAMS.

5.4 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.

5.5 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK.

5.6 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.

5.7 ADJUSTMENT AND POSSIBLY RESETTING OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.

5.8 SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

6.0 STRUCTURAL STEEL

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

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

6.3 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.

6.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B.

6.5 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.

6.6 THREADED AND PLAIN STEEL RODS: ASTM A36

ACCORDANCE WITH AISC.

6.7 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.

6.8 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

6.9 CONNECTIONS:

BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER.

B. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS. C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT

BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN

D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.

DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

6.10 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.

6.11 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.

6.12 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.

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."

6.13 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.

6.14 PROVIDE ¾" THICK CLOSURE PLATES ON THE ENDS OF TUBE STEEL BEAMS. SHOP WELD TO BEAM WITH ¼" PARTIAL PENETRATION WELDS ALL AROUND.

7.0 STEEL DECK

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

7.2 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.

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

7.4 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 ONE SIDELAP FASTENER PER SPAN. ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD GALVANIZING PAINT.

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

7.6 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".

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

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

7.9 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.

8.0 MASONRY

8.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.

8.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.

8.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.

8.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR. NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.

8.5 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.

8.6 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE

8.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF CMU NET COMPRESSIVE STRENGTH GREATER THAN 2650 PSI.

8.8 ALL MASONRY SHALL BE STACKED BOND, UNLESS NOTED

8.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR

8.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE. SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.

8.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.

A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.

FOR ADDITIONAL INFORMATION ON CONTROL JOINTS SEE TYPICAL DETAILS.

8.12 MASONRY CONTROL JOINTS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

8.13 WHEN REINFORCING IS SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS,

OPENINGS AND WALL ENDS.

BARS CONTINUOUS, UNLESS NOTED.

OF THE WINDOWS.

8.14 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED. AT WINDOWS PROVIDE A MINIMUM OF 2#4 BARS AT THE SILL

8.15 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.

8.16 PROVIDE WALL TOP SUPPORT AT 8'-0" OC FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0".

8.17 GROUT SHALL COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. 8.18 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PREMITTED. MINIMUM OF LADDER TYPE ZINC

CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".

EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD

WALLS ABUT CONCRETE SURFACES. 8.20 PROVIDE GROUT FILLED U-BLOCK AT TOP OF ALL CMU WALLS REINFORCED WITH 2 # 4

8.19 PROVIDE DOVETAIL ANCHORS AT 16" O/C, UNLESS NOTED OTHERWISE, WHERE MASONRY

COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR

8.21 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY. 8.22 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW

TO SPECIFIED REINFORCEMENT. 8.23 CONDUITS OR CONDENSATE DRAIN LINES UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONT THRU MASONRY BOND BEAMS. COORDINATE WITH MECHANICAL OR ELECTRICAL DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERUPT CONTINUOUS REINFORCING STEEL

FINISH FLOOR PROVIDE #6@16, UP TO THE FINISH FLOOR ELEVATION, IN ADDITION

IN PLACEMENT OF DRAIN OR CONDUIT LINES. 8.24 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL

PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING. A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER

B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASONRY CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

8.25 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS.

CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH 48 BAR DIAMETER LAPS AND

9.0 WOOD CONSTRUCTION

9.1 ALL SAWN LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE PRESSURE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATIONS (AWPA) STANDARD U1 (CURRENT EDITION).

9.2 CUT ENDS OR ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURERS INSTRUCTIONS AND AWPA STANDARD M4-08.

9.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.

9.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DIAMETERS

9.5 FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55, MINIMUM.

9.6 METAL CONNECTORS SHOWN IN DOCUMENTS ARE SIMPSON STRONG TIE CONNECTORS. SUBSTITUTION WITH EQUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.

9.7 ALL HARDWARE (JOIST HANGERS, ETC.) SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A 123.

9.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.

ARCHITECTS LATHAN - BRYANT - CALMA

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GENERAL NOTES CONTINUED

2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

5. DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)

ACO1 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)

c.SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)

f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677)

WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

a.SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)

b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)

h.DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)

i.DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

d.SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716)

g.HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561)

3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)

4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES

a.SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES

e. HILTI KH-EZ. KH-EZ CRC. KH-EZ SS316. KH-EZ C. AND KH-EZ P SCREW

2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE

c.HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND

VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS

CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR

d.HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH

a.SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)

d.DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)

ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND

2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM $1/8'' \le TF \le 3/8''$

10.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL

SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE

10.8 INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTRUCTIONS (MPII), OR AS

10.10 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE

SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED

10.11 THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC

INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR

10.12 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND

10.13 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY

WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE

CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING

THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER

POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING

REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL

UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF

TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS

CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE

10.9 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER

TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)

10.7 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

BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED &

SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR

EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION

RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)

3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF $\geq 1/4$ ".

E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638)

3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)

C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS:

BEAMS 16 GA \leq TF \leq 1/4"

INSPECTIONS AND PROOF LOAD REQUIREMENTS.

INCLUDED IN THE ANCHOR PACKAGING.

TEMPERATURE.

INSTRUCTIONS.

MEANS.

ADDITIONAL INFORMATION.

b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)

B. UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH

2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND

VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS

APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE

10.5 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED

CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE

SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES

AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE

ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

10.4 FOR ANCHORING INTO MASONRY:

A. SOLID-GROUTED CONCRETE MASONRY

ANCHORS (ICC ESR-3056)

AND VACUUM (ICC ESR-4878)

e.DEWALT AC100+ GOLD (ICC-ES ESR-3200)

ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

ESR-1056)

9.9 ALL NAIL SIZES INDICATED IN DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER

9.10 DESIGN. FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE REVIEW OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

9.11 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

Α.	ROOF TOP CHORD DEAD LOAD10 PSF
В.	ROOF BOTTOM CHORD DEAD LOAD10 PSF
С.	ROOF TOP CHORD LIVE LOAD20 PSF
D.	ROOF BOTTOM CHORD LIVE LOAD250 LBS
	(CONCENTRATED LOAD AT ANY LOCATION ALONG BOTTOM CHORD)

9.12 DESIGN OF ACTUAL WOOD TRUSS WEB CONFIGURATION TO BE DETERMINED BY TRUSS

9.13 DESIGN WOOD TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT

AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

9.14 IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. MAXIMUM LOAD IS 200 LBS PER CONNECTION ACCORDING TO NOTE BELOW. SUBCONTRACTOR SHALL PROVIDE HANGER SPACINGS TO NOT EXCEED 200 LBS LOAD TO TRUSS.

9.15 ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS INDICATED.

9.16 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DESIGNED AND DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE TRUSS MANUFACTURER'S ERECTION PLANS AND "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY BCSI, LATEST EDITION.

9.17 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

9.18 ROOF SHEATHING: 3/4" PLYWOOD, APA RATED SHEATHING EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES. PANEL IDENTIFICATION INDEX 48/24.LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.

9.19 ROOF SHEATHING NAILING. UNLESS NOTED: 10d NAILS AT 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS

9.20 SHEETS OF DRYWALL SHOULD BE LAID FLAT ON THE FLOOR. MAXIMUM HEIGHT OF DRYWALL SHOULD BE 10". SHOULD DRYWALL SLEEPERS BE USED TO KEEP THE DRYWALL OFF THE FLOOR SHEATHING, A MINIMUM OF FOUR SETS OF SLEEPERS SHOULD BE USED. LONG DIRECTION OF DRYWALL MUST BE PARALLEL TO THE TRUSSES WITH SLEEPERS BEING PLACED PERPENDICULAR TO THE TRUSSES.

POST-INSTALLED ANCHORS AND REINFORCING

10.1 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.

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

10.3 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 SAFESET 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

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)

A. STRUCTURAL STEEL BEAM CONNECTION DESIGN

C. ARCHITECTURAL PRECAST (SUBMIT FOR RECORD ONLY) D. FORMWORK AND SHORING (SUBMIT FOR RECORD ONLY)

F. AUTOCLAVED AERATED CONCRETE (AAC) PANELS

G. COLD-FORMED STEEL WALL PANEL FRAMING H. COLD-FORMED STEEL FRAMING

11.2 SUBMIT ALL SHOP DRAWINGS ELECTRONICALLY. ELECTRONIC COPIES WILL BE RETURNED TO THE ARCHITECT. REPRODUCTIONS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE ELECTRONIC

11.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE

11.5 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.

11.6 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. WHERE SUBMITTAL CHECKLISTS ARE REQUIRED BY THE RELEVANT SPECIFICATION, THE AFOREMENTIONED INFORMATION MUST BE INDICATED ON THE SUBMITTAL CHECKLIST IN ACCORDANCE WITH THE RELEVANT SPECIFICATION. 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, COVER SHEET, OR CHECKLIST 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.

11.7 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR AND REVIEWED BY THE S.E.R. SHOULD THE OWNER OR CONTRACTOR FAIL TO OBTAIN THE S.E.R'S REVIEW OF THE SHOP DRAWINGS, THE S.E.R. WILL NOT ACCEPT RESPONSIBILITY FOR THE DESIGN AND CERTIFICATION OF THIS PROJECT. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE PRODUCED PRIOR TO FINAL CONSTRUCTION SET.

11.8 DO NOT FABRICATE PRIOR TO SHOP DRAWING'S REVIEW.

11.9 ENGINEERING DESIGN AND SHOP DRAWINGS FOR FLOOR AND ROOF TRUSS SYSTEMS ALONG REVIEW PRIOR TO CONSTRUCTION.

12.0 PREFABRICATED CANOPY

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

12.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT

12.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO,

12.4 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

12.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY AND CANOPY ANCHORAGE AS REQUIRED. MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

SHOP DRAWINGS (SUBMITTALS)

11.1 THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AN ELECTRONIC SET OF DESIGN CALCULATIONS FOR ITEMS LISTED BELOW; CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:

B. STEEL STAIR FRAMING AND CONNECTIONS DESIGN

E. PRECAST CONCRETE HOLLOW CORE SLABS

I. COLD-FORMED STEEL ROOF TRUSSES J. FLOOR AND ROOF WOOD TRUSSES

COPIES ARE RETURNED.

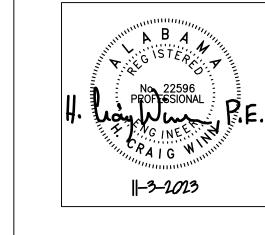
11.3 ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A PROPERLY COMPLETED SUBMITTAL CHECKLIST, WHERE REQUIRED BY THE RELEVANT SPECIFICATION SECTION.

PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

WITH LAYOUT PLANS ARE REQUIRED TO BE SUBMITTED TO THE BUILDING OFFICIAL FOR

SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

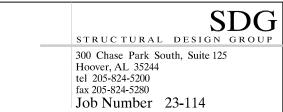
FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.



SHEET TITLE: GENERAL NOTES CONTINUED

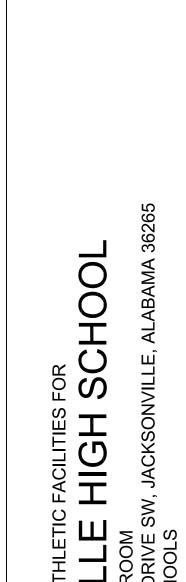
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JOB NO. **22-47B** SHEET NO:





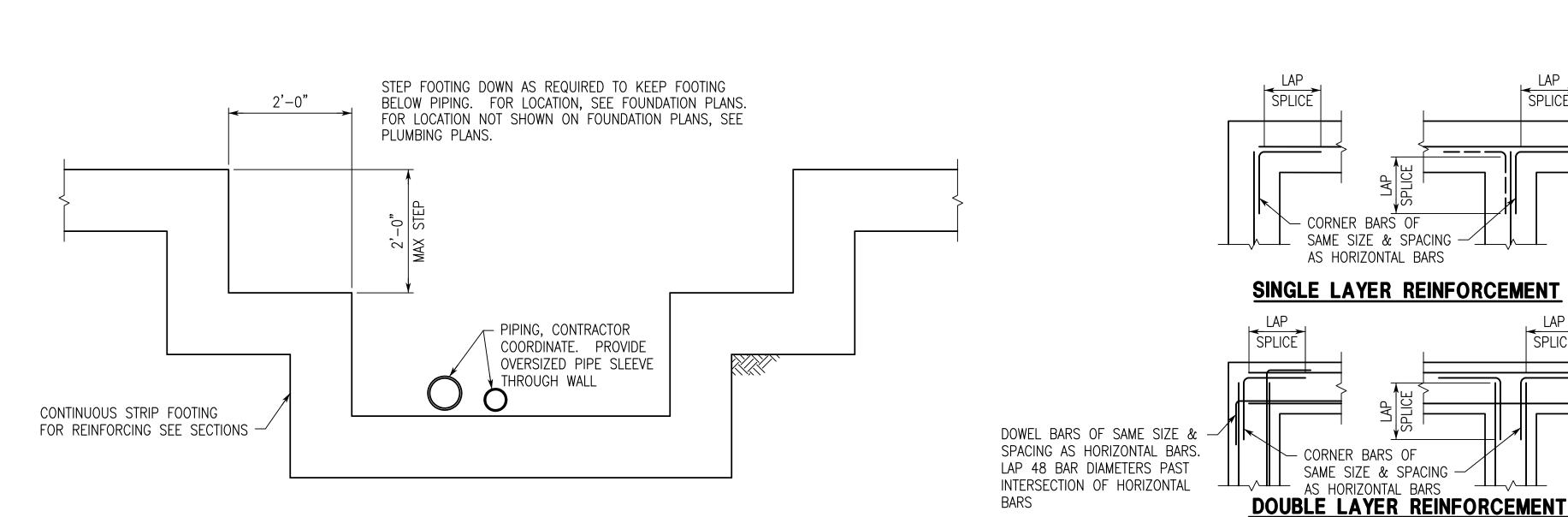




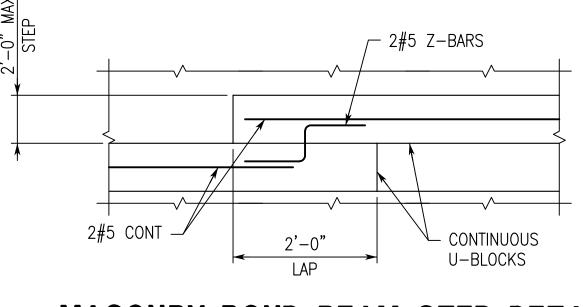
SHEET TITLE: TYPICAL DETAILS

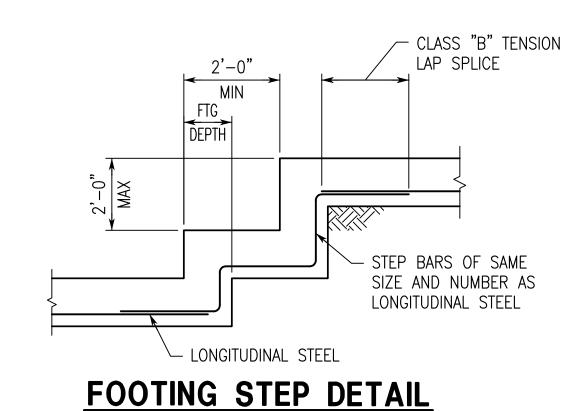
PROJ. MGR.: DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47В** SHEET NO:



- 2#5 Z-BARS 2#5 CONT ackslash continuous U-BLOCKS LAP MASONRY BOND BEAM STEP DETAIL

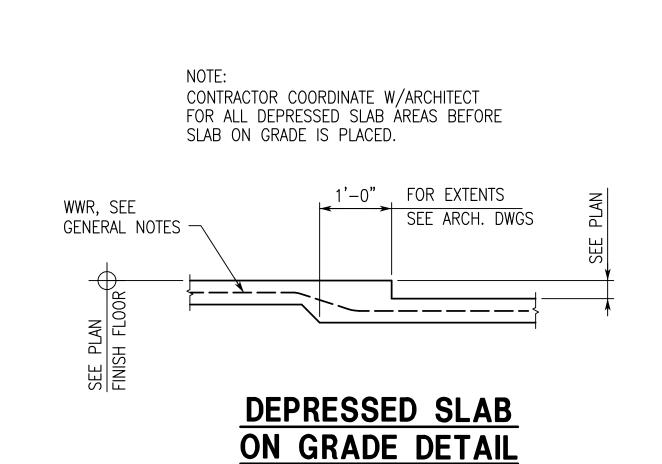


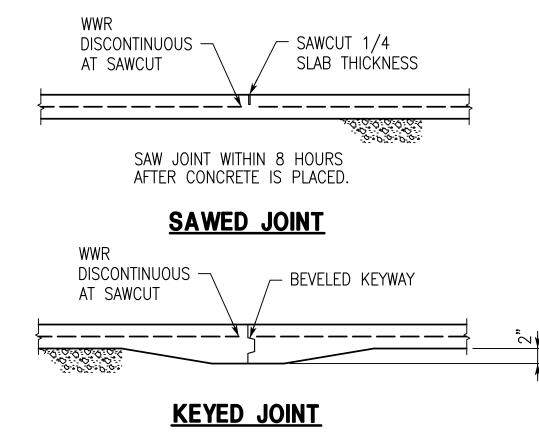


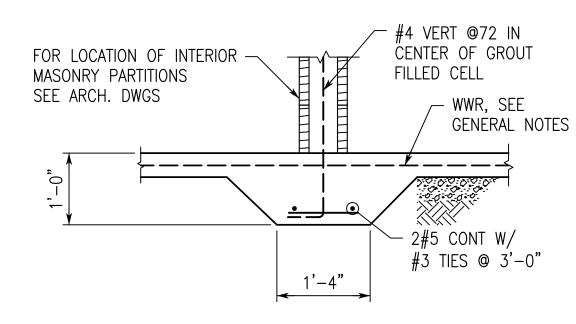
FOOTING/FOUNDATION WALL AT PIPING

WALL AND FOOTING CORNER REINFORCING DETAIL

NOTE: ALL LAP SPLICES CLASS "B" TENSION







SLAB CONTROL JOINT DETAILS TYPICAL JOINT TYPE IS OPTIONAL

THICKENED SLAB
ON GRADE DETAIL
TYPICAL

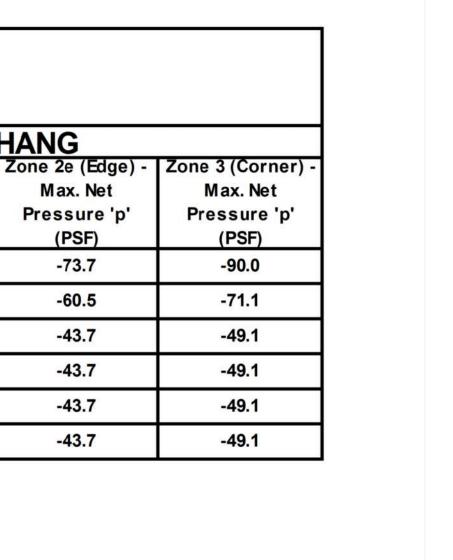
COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

LC	ADS I OI	VVALL	3 (1 31)	8
113 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	32.2	-34.9	-43.1
	20	30.7	-33.4	-40.2
	50	28.8	-31.5	-36.4
	100	27.4	-30.1	-33.5
	200	25.9	-28.6	-30.6
	500	24.0	-26.7	-26.7

- WIDTH OF EDGE STRIP 'a' = 6'-3".
- 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)											
				ROOF				OVER	HANG		
113 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT ²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 (Int.)	Zone 2r (Edge)	Zone 2e (Edge)	Zone 3 (Corner)	Zone1 (Int) - Max. Net Pressure 'p' (PSF)	Zone 2r (Edge) -	Zone 2e (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3 (Corner) - Max. Net Pressure 'p' (PSF)	
	10	21.8	-45.8	-69.9	-54.2	-73.1	-62.8	-87.3	-73.7	-90.0	
	20	19.1	-41.2	-58.4	-43.6	-55.1	-58.0	-75.4	-60.5	-71.1	
	50	16.0	-33.9	-43.1	-26.7	-32.2	-49.8	-59.7	-43.7	-49.1	
	100	16.0	-28.4	-32.2	-26.7	-32.2	-40.9	-49.1	-43.7	-49.1	
	200	16.0	-24.0	-32.2	-26.7	-32.2	-40.9	-49.1	-43.7	-49.1	
	500	16.0	-24.0	-32.2	-26.7	-32.2	-40.9	-49.1	-43.7	-49.1	

- 1. WIDTH OF EDGE STRIP 'a' = 6'-3".
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD
- 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.



EDGE ZONE

WALLS

3r 3r

3e 3r 3r 3r

GABLE ROOFS

ZONE

4

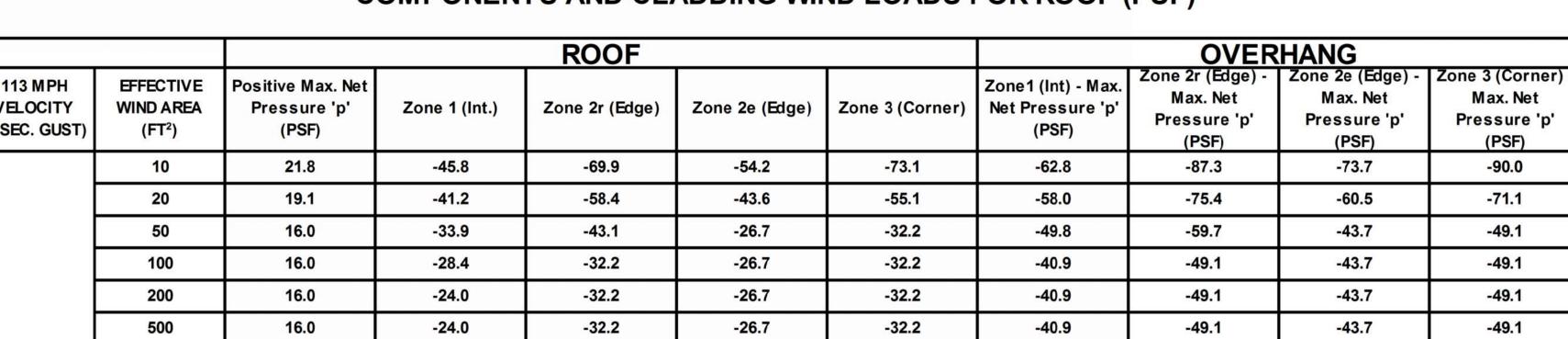
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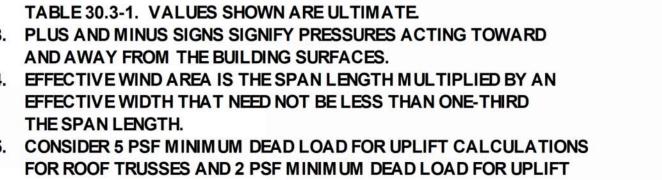
FLAT ROOFS

HIP ROOFS

WALL AND ROOF WIND

PRESSURE ZONE DIAGRAMS







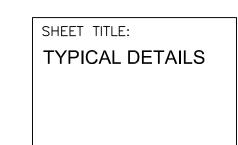


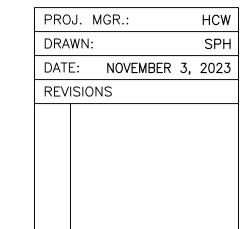


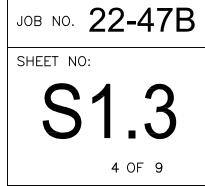
LLE PROFE NEW BAND ROOM AND AT

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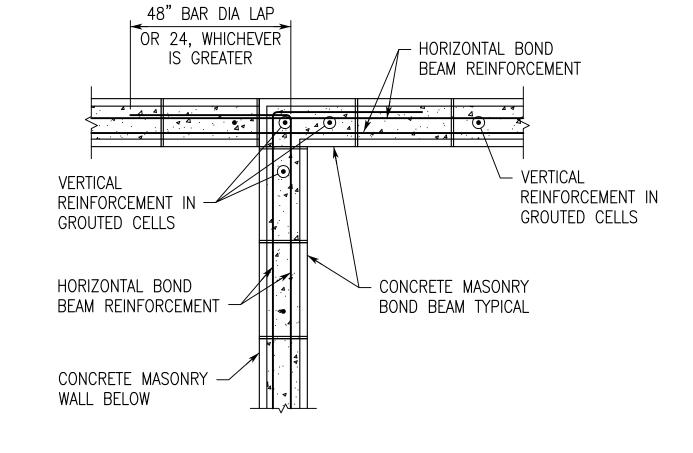




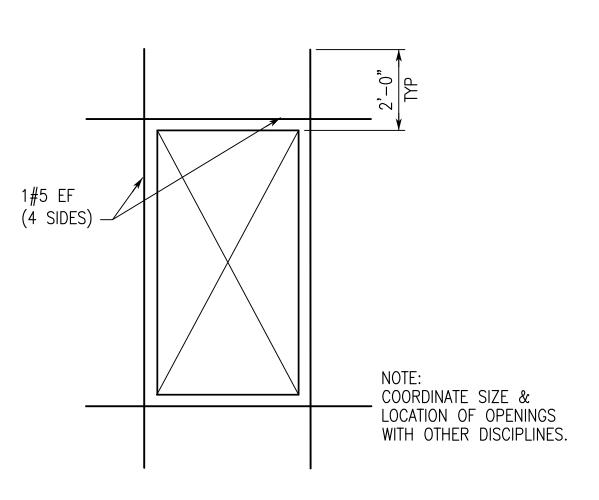


— BENT BARS, SAME SIZE BARS AS HORIZONTAL REINFORCEMENT VERTICAL REINFORCEMENT IN -REINFORCEMENT IN GROUTED CELLS GROUTED CELLS HORIZONTAL BOND BEAM REINFORCEMENT - CONCRETE MASONRY BOND BEAM TYPICAL - CONCRETE MASONRY WALL BELOW





PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION



WALL OPENING

REINFORCMENT DETAIL

VERTICAL REINFORCEMENT – IN GROUTED CELLS AT TYPICAL SPACING

- CONT HORIZONTAL JOINT REINFORCEMENT

MASONRY WALL

PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER

5/8" MIN 5/8" MIN COVER, TYP

- HORIZONTAL JOINT

REINFORCEMENT CONT

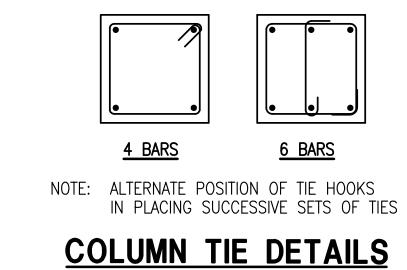
FACTORY FABRICATED CORNER

VERTICAL REINFORCEMENT

REINFORCEMENT

IN GROUTED CELLS-

SECTION OF HORIZONTAL JOINT



CONT HORIZONTAL

JOINT REINFORCEMENT

VERTICAL MORTAR JOINT -

CONT HORIZONTAL

FACTORY FABRICATED

TEE JOINT REINF EVERY

OTHER COURSE TYPICAL

5/8" MIN 5/8" MIN COVER, TYP

PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION

JOINT REINFORCEMENT -

- VERTICAL REINFORCEMENT

IN GROUTED CELLS

- CONT HORIZONTAL

JOINT REINFORCEMENT

MASONRY REINFORCING LAP SPLICE LENGTHS							
BAR SIZE (#)	CENTERED (IN.)	EDGE (IN.)					
3	18.0	18.0					
4	24.0	29.0					
5	30.0	45.0					
6	43.0	54.0					
7	60.0	63.0					
8	72.0	72.0					
9	82.0	82.0					

1. LAP SPLICE LENGTHS APPLY TO BOTH HORIZONTAL AND VERTICAL REINFORCING. 2. REINFORCEMENT LARGER THAN NO. 9 BAR SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 & ACI 530.1.

VENEER LINTEL SCHEDULE
STEEL FOR EACH 4" OF WALL THICKNESS WIDTH
2'-0" L3 1/2x3 1/2x3/8
4'-0" L3 1/2x3 1/2x3/8
6'-0" L5x5x3/8
8'-0" L6x4x3/8 (LONG LEG VERTICAL)
ARGER CONTACT ENGINEER

1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. 2. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP

TENSION LAP SPLICE LENGTHS										
		f _C = 30	000 PSI			f _C = 40	000 PSI			
BAR SIZE	TOP E	BARS	OTHER	BARS	TOP E	BARS	OTHER	BARS		
0.22	Α	В	Α	В	Α	В	Α	В		
#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"		

LOAD BEARING STACK BOND

MASONRY LINTEL SCHEDULE

6'-0" | 32 | 2#4 BOT & 2#4 TOP | 2#5 BOT & 2#5 TOP

8'-0" | 32 | 2#5 BOT & 2#5 TOP | 2#5 BOT & 2#5 TOP

1. PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS

2. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED. 3. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 1#4 CONT AT

ON EACH SIDE OF WINDOW OPENING.

SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR

BOTTOM OF ALL WINDOW OPENINGS. EXTEND 24" PAST OPENING

LINTEL DIMENSIONS AND REINFORCING

2#4 BOT & 2#4 TOP | 2#4 BOT & 2#4 TOP

2#5 BOT & 2#5 TOP | 2#5 BOT & 2#5 TOP

12" WALL

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

WIDTH | DEPTH | 8" WALL

MAXIMUM OPENING

_ FILL SOLID W/GROUT CUT FACE SHELL AS REQD DO NOT PROVIDE JOINT BETWEEN WALL AND COLUMN — AT TIES TO EXTEND TIE 1/2" BELOW TOP OF BLOCK EXTEND HORIZONTAL JOINT REINF INTO — DO NOT PROVIDE JOINT MASONRY COLUMN BETWEEN WALL AND COLUMN VERTICAL BARS TO HAVE 2" VERTICAL BARS, SEE CLEAR COVER AT CORNERS SCHEDULE. DOWEL VERTICAL BARS TO FDN — - #3 TIE, SEE SCHEDULE 16x24

MASONRY	COLUMN	(MC)
	TYPICAL	

ΛN	SONRY C	OLUMN	SCHEDU	LE	(MC)
COLU	MN DESIGNATION	MC1			
	SIZE	16x24			
COLUMN	VERTICALS	6#5			
	TIES	#3@12			
\mathbf{C}					

1. SEE COLUMN TIE DETAIL THIS SHEET.

1,2,3

3. EXTEND VERTICALS FULL HEIGHT OF WALL, UNLESS NOTED.

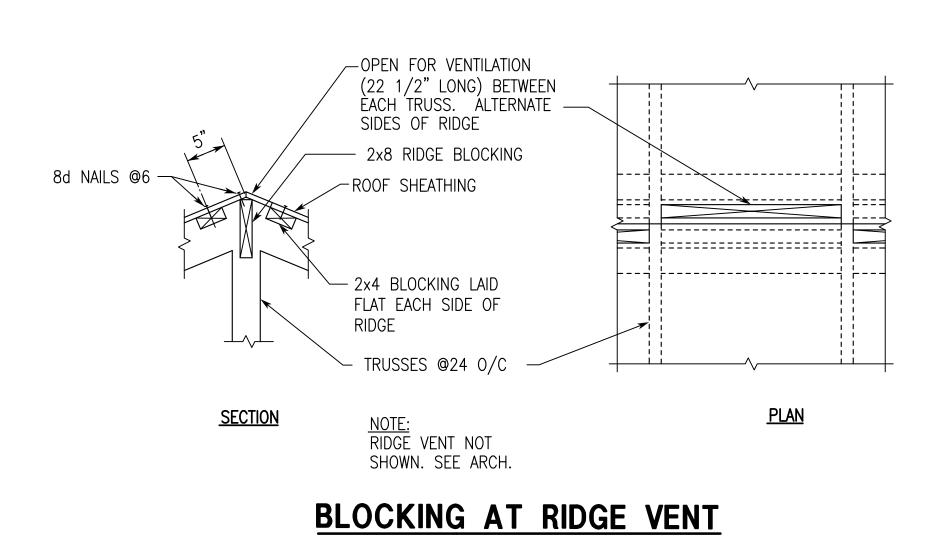
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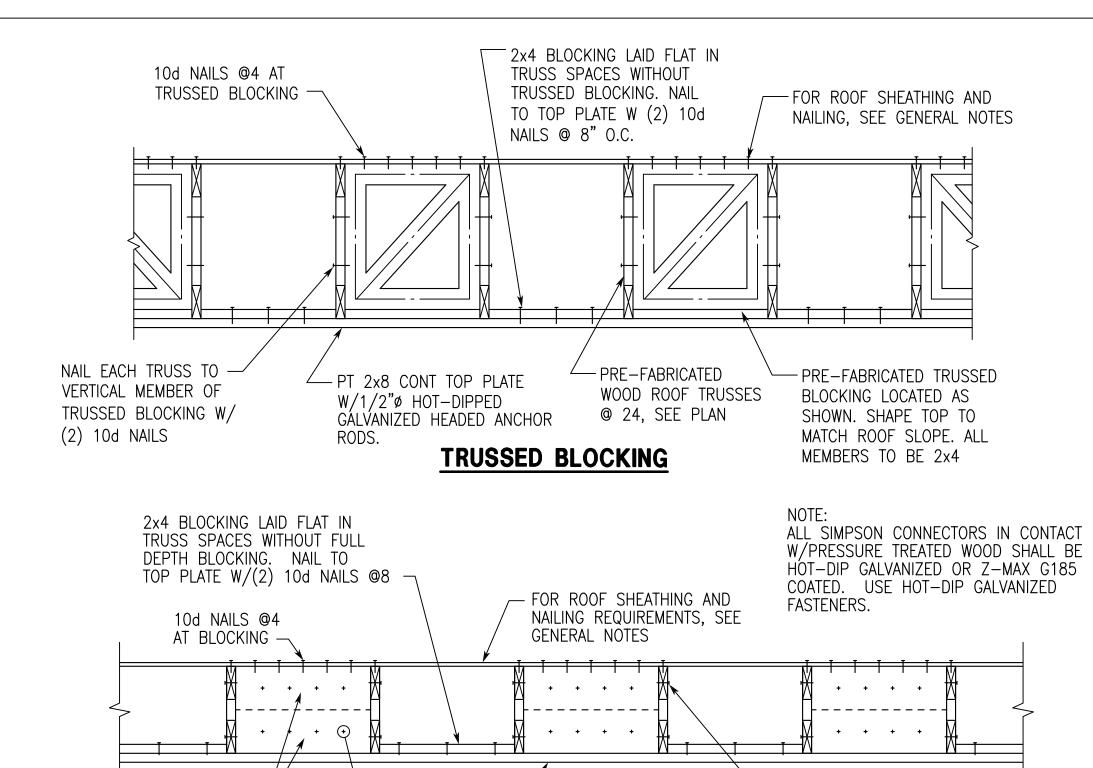
2. DOWEL VERTICAL STEEL INTO FOOTING THE THICKNESS OF THE FOOTING MINUS 3" WITH STANDARD HOOK. LAP DOWELS WITH VERTICALS 72 BAR DIA.

NON-LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE					
	LINTEL DIMENSIONS AND REINFORCING				
IAXIMUM PENING WIDTH	DEPTH	8" WALL		12" WALL	
		REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL	REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL
2'-0"	8	1#4 BOT	20'-0"	1#4 BOT	22'-0"
4'-0"	8	1#4 BOT	10'-0"	2#4 BOT	9'-4"
6'-0"	8	1#5 BOT & 1#4 TOP	4'-0"	2#5 BOT & 2#4 TOP	4'-8"
8'-0"	16	1#6 BOT & 1#5 TOP	15'-4"	2#5 BOT & 2#4 TOP	16'-0"
10'-0"	16	1#7 BOT & 1#5 TOP	10'-0"	2#6 BOT & 2#4 TOP	12'-0"
12'-0"	16	1#8 BOT & 1#5 TOP	7'-4"	2#7 BOT & 2#5 TOP	10'-8"

- REINFORCE WITH 1#5 BAR CONTINUOUS.

 3. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.
- 4. WHERE MAXIMUM HEIGHT OF WALL ABOVE LINTEL IS EXCEEDED, PROVIDE ADDITIONAL LINTELS EQUALLY
- 5. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
- 6. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 1#4 CONT AT BOTTOM OF ALL WINDOW OPENINGS.
- 1. DO NOT USE THIS SCHEDULE IF WALL IS LOAD BEARING SUPPORTING ANYTHING OTHER THAN WALL WEIGHT
- ONLY. IF WALL IS LOAD BEARING USE THE LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE. 2. PROVIDE 2'-0" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND
- SPACED ABOVE TO LIMIT WALL HEIGHTS ABOVE LINTEL TO THAT SHOWN IN THE TABLE ABOVE.
- EXTEND 2'-0" PAST OPENING ON EACH SIDE OF WINDOW OPENING.





PT 2x8 CONT TOP PLATE
W/1/2"ø HOT-DIPPED
GALVANIZED HEADED ANCHOR

2x BUILT-UP BLOCKING

TRUSS BLOCKING AT EXTERIOR WALL

CONTRACTORS OPTION TO USE EITHER TRUSSED BLOCKING OR 2x BUILTUP BLOCKING AT AREAS WHERE TRUSS HEEL HEIGHT EXCEEDS THAT WHICH TYPICAL 2x SOLID DEPTH BLOCKING IS PRACTICAL.

- NAIL EACH TRUSS TO

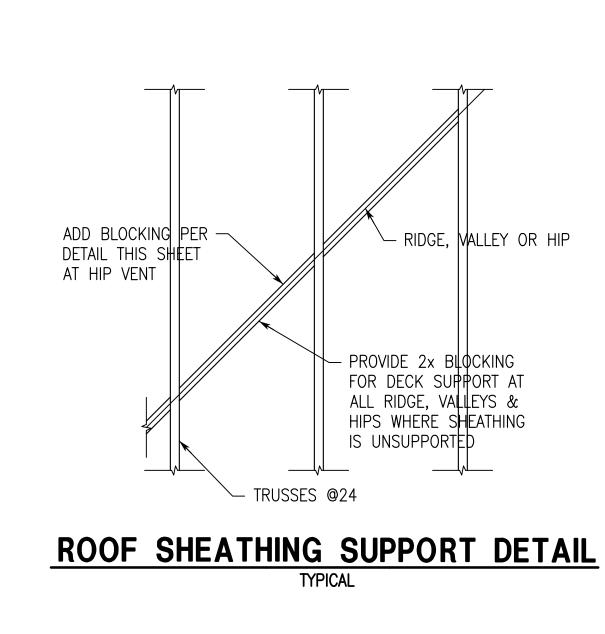
BLOCKING W/(2) 10d NAILS

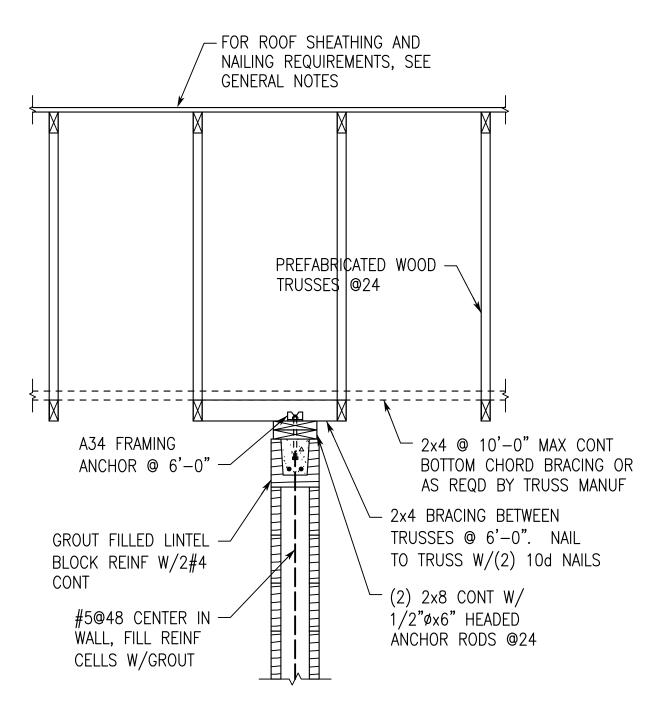
(4) 10d NAILS AT EACH 2x8

(2) 2x8 FULL DEPTH —

BLOCKING FACED W/ 1/2" PLYWOOD. NAIL PLYWOOD

TO 2x8 W/(4) 10d NAILS EVENLY SPACED TO TOP 2x8 AND BOTTOM 2x8





MASONRY WALL SUPPORT AT ROOF

NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265

JACKSONVILLE CITY SCHOOLS

SDG

LATHAN

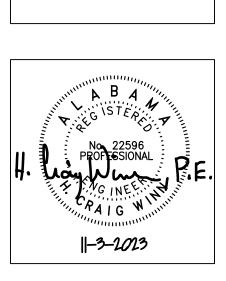
ARCHITECTS

LATHAN - BRYANT - CALMA

STRUCTURAL DESIGN GROUP

300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Lab Namber 22 114

Job Number 23-114



SHEET TITLE:

TYPICAL DETAILS

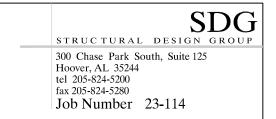
PROJ. MGR.: HCW
DRAWN: SPH
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. 22-47B

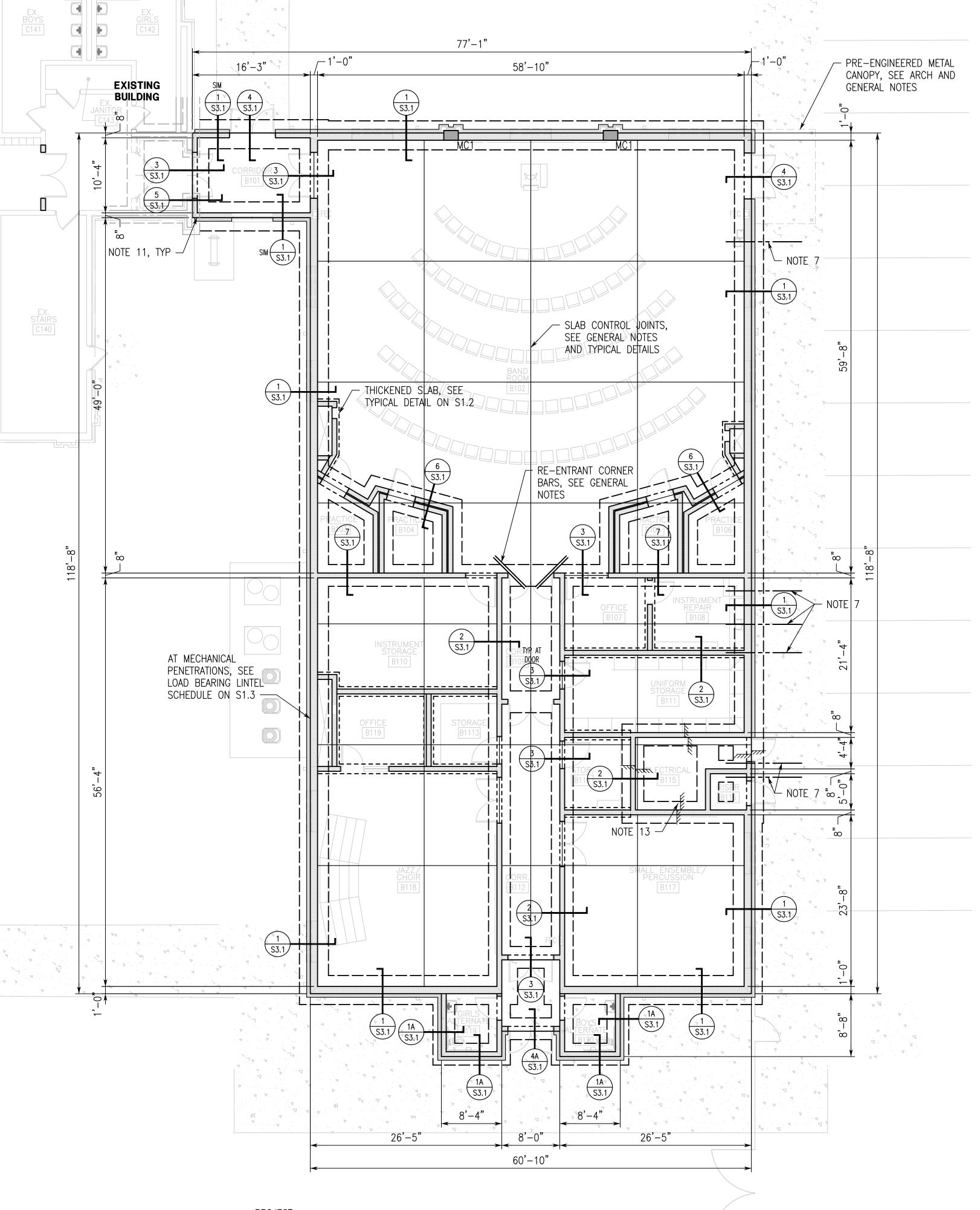
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S 1.4

5 OF 9





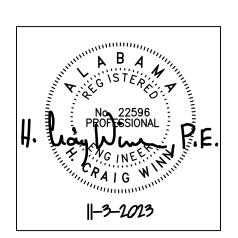




ANCHORING WITH EPOXY ADHESIVE.

- 2. TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.
- FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. 4. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- 5. GENERAL CONTRACTOR SHALL COORDINATÉ TILE JOINT LOCATIONS WITH CONTROL JOINTS 6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALLS. NOTE ALL EXTERIOR PLAN
- DIMENSIONS ARE TO EXTERIOR FACE OF CMU ABOVE WATERTABLE.
- 7. GENERAL CONTRACTOR SHALL COORDINATE ALL FOOTING STEPS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS.
- FOR FOOTING STEP AT UTILITIES, SEE DETAIL ON S1.2. 8. FOOTING WIDTHS INDICATED ON PLAN MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING
- WIDTHS AND ADDITIONAL INFORMATION.
- 9. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS. 10. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO STRUCTURE AS REQUIRED TO FULLY COMPLY WITH MANUFACTURER INSTALLATION DETAILS.
- SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW. 11. GENERAL CONTRACTOR COORDINATE FOOTING ELEVATIONS AND STEP NEW FOOTINGS AS REQUIRED TO MATCH EXISTING FOOTING ELEVATIONS. DOWEL CONTINUOUS REINFORCING 9" INTO EXISTING FOOTING BY DRILLING AND
- 12. "MC" INDICATES MASONRY COLUMN. SEE SHEET S1.3 FOR COLUMN SCHEDULE AND ADDITIONAL INFORMATION. 13. DEPRESS SLAB IN ELECTRICAL AND RISER ROOM -0'-9''. SEE DETAIL ON S1.2 AND ARCHITECTURAL FOR ADDITIONAL INFORMATION.

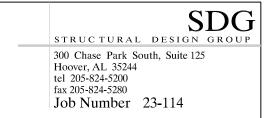


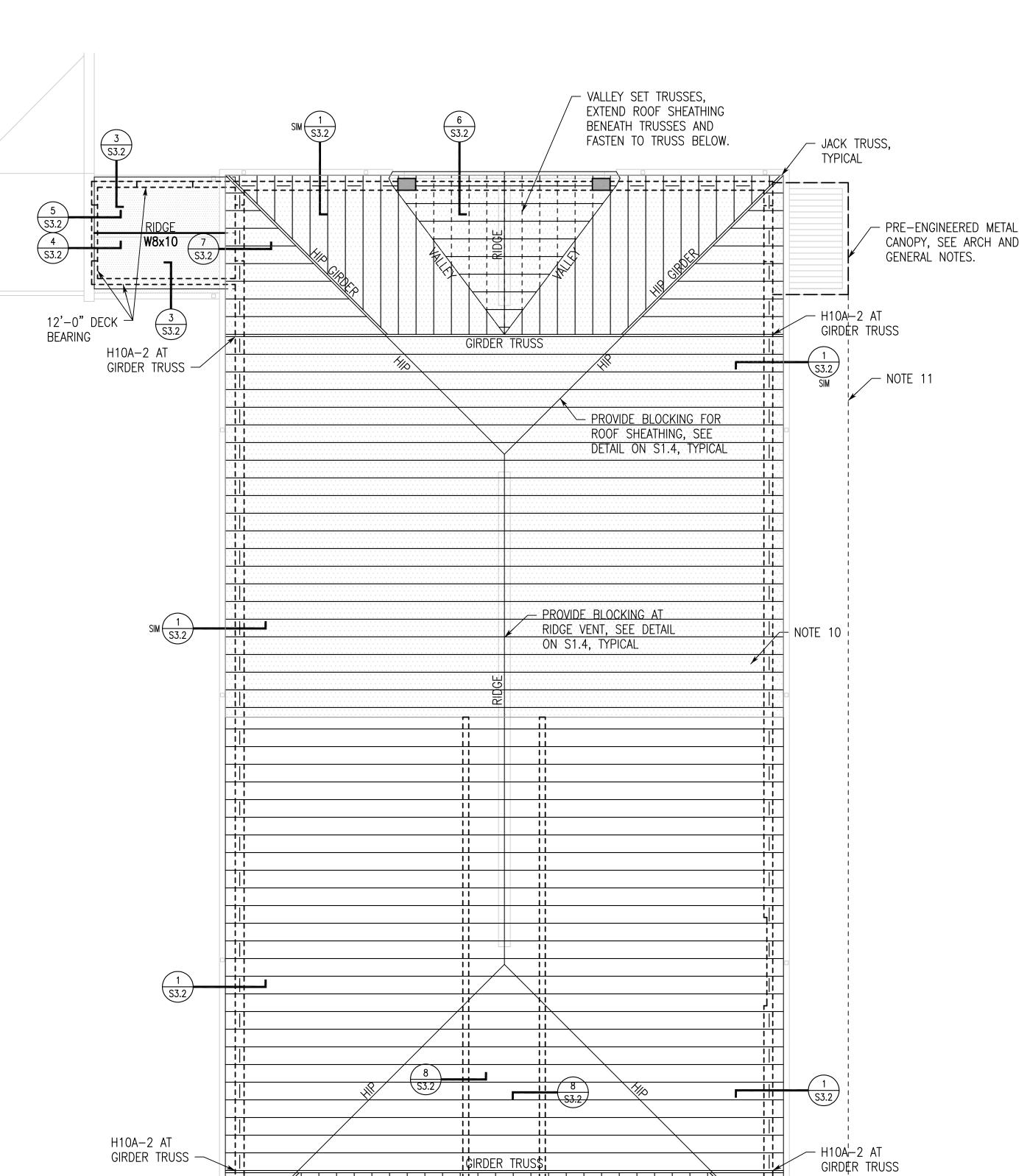


SHEET TITLE: FOUNDATION PLAN

DATE: NOVEMBER 3, 2023

JOB NO. **22-47B** SHEET NO:





PROJECT NORTH

BLOCKING, SEE DETAIL — ON S1.4, TYPICAL



ROOF FRAMING PLAN 1/8"=1'-0"

1. HIGH ROOF SYSTEM: PREFABRICATED WOOD ROOF TRUSSES AT 24". SEE GENERAL NOTES.

FOR ADDITIONAL INFORMATION

ON WALL REINFORCING AT CORNERS AND INTERSECTIONS,

SEE DETAILS ON S1.3

- LOW ROOF SYSTEM: 1 1/2" GALVANIZED METAL DECK. SEE GENERAL NOTES.
- HIGH ROOF SHEATHING: 3/4" PLYWOOD, SEE GENERAL NOTES.
 TOP OF CMU WALL ELEVATION 18'-8" ABOVE FIRST FLOOR, UNLESS NOTED.
- TRUSS BEARING 18'-9 1/2" ABOVE FIRST FLOOR, UNLESS NOTED.

 4 TRUSSES BEAR ON ALL WALLS AND BEAMS AS SHOWN
- 4. TRUSSES BEAR ON ALL WALLS AND BEAMS AS SHOWN.
 5. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
- 6. FOR DIMENSIONS SEE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS.
- DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
 ALL PREFABRICATED WOOD ROOF TRUSS CONNECTIONS SHOWN ARE TYPICAL.
- 9. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE TRUSS MANUFACTURER. DESIGN TRUSSES FOR 250 POUND ADD LOAD.
- 10. REPRESENTS SCISSOR TRUSSES. BOTTOM CHORD OF SCISSOR TRUSS SHALL SLOPE AT 2/12 TO AN ELEVATION OF 24'-0" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. LIMIT HORIZONTAL MOVEMENT TO
- 1/4" EACH END OF SCISSOR TRUSS.
 11. ADD ALTERNATE TO INCLUDE EXTENSION OF PRE—ENGINEERED METAL CANOPY ALONG PLAN EAST SIDE OF STRUCTURE. SEE GENERAL NOTES AND ARCHITECTURAL FOR MORE INFORMATION.

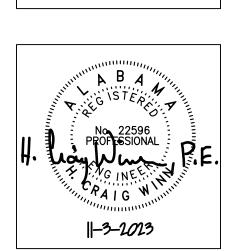


EW BAND ROOM AND ATHLETIC FACILITIES FOR

IACKSONVILLE HIGH SCHOOL

ACKAGE B: NEW BAND ROOM

300 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265



SHEET TITLE:
ROOF FRAMING
PLAN

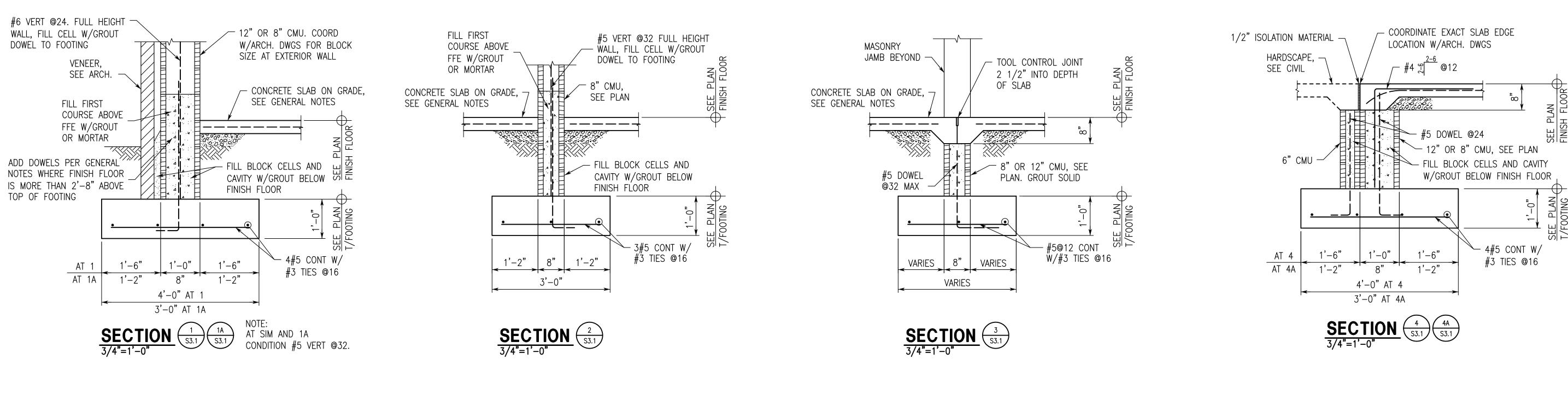
PROJ. MGR.: HCW
DRAWN: SPH
DATE: NOVEMBER 3, 2023
REVISIONS

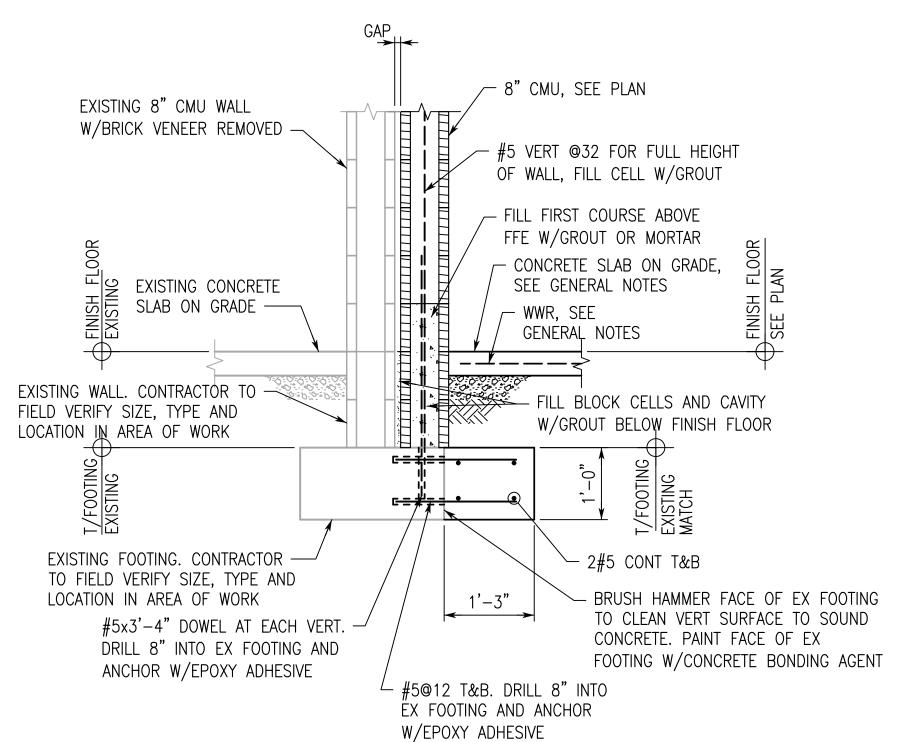
JOB NO. **22-47B**SHEET NO:

S2.2

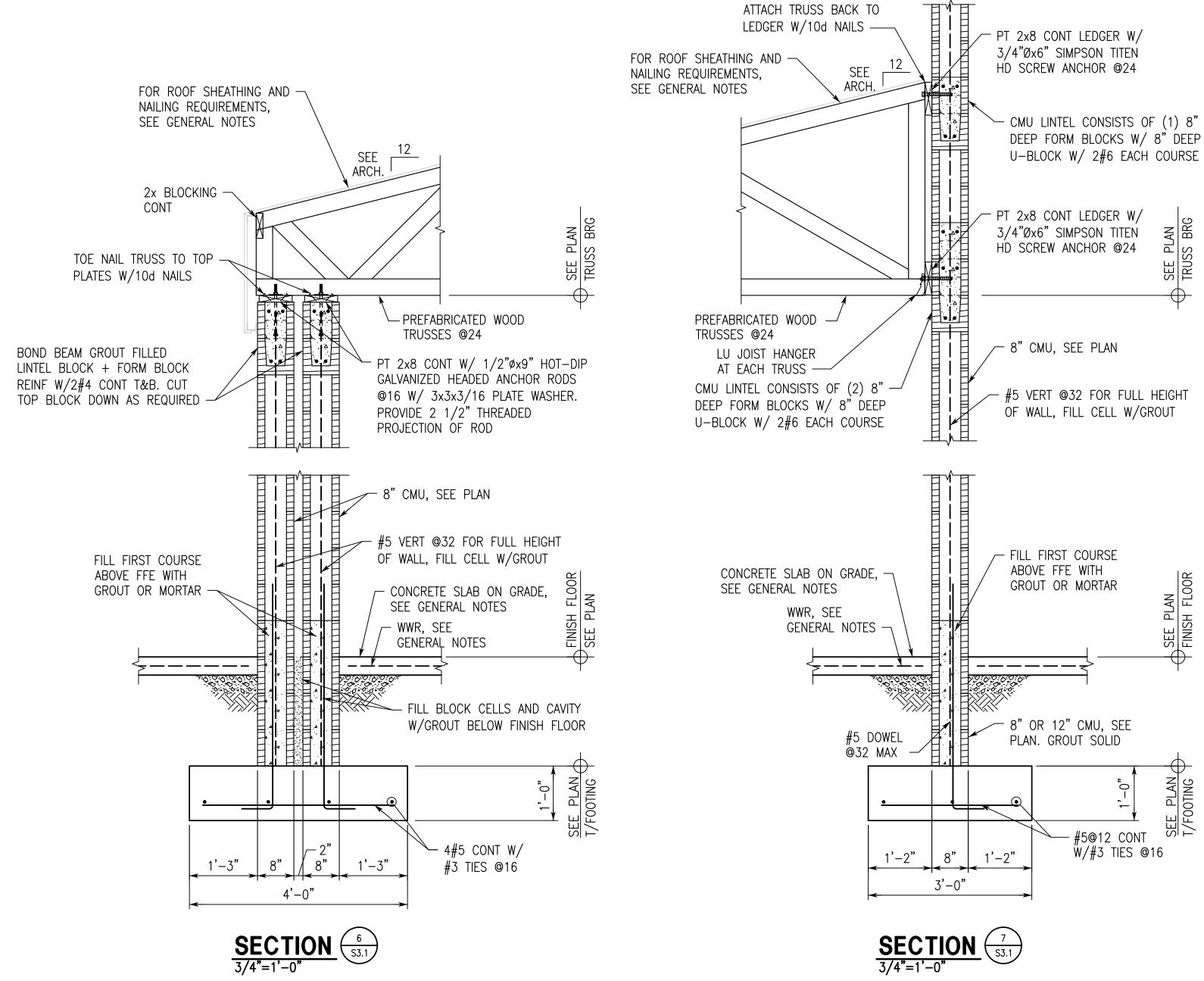
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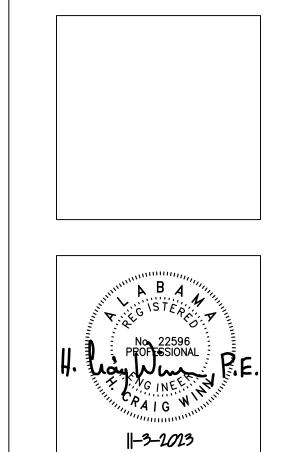












SCHOOL

FACILITIES HIGH

LLE I

JACKSONVILLE CITY SCHC

SHEET TITLE:
SECTIONS AND
DETAILS

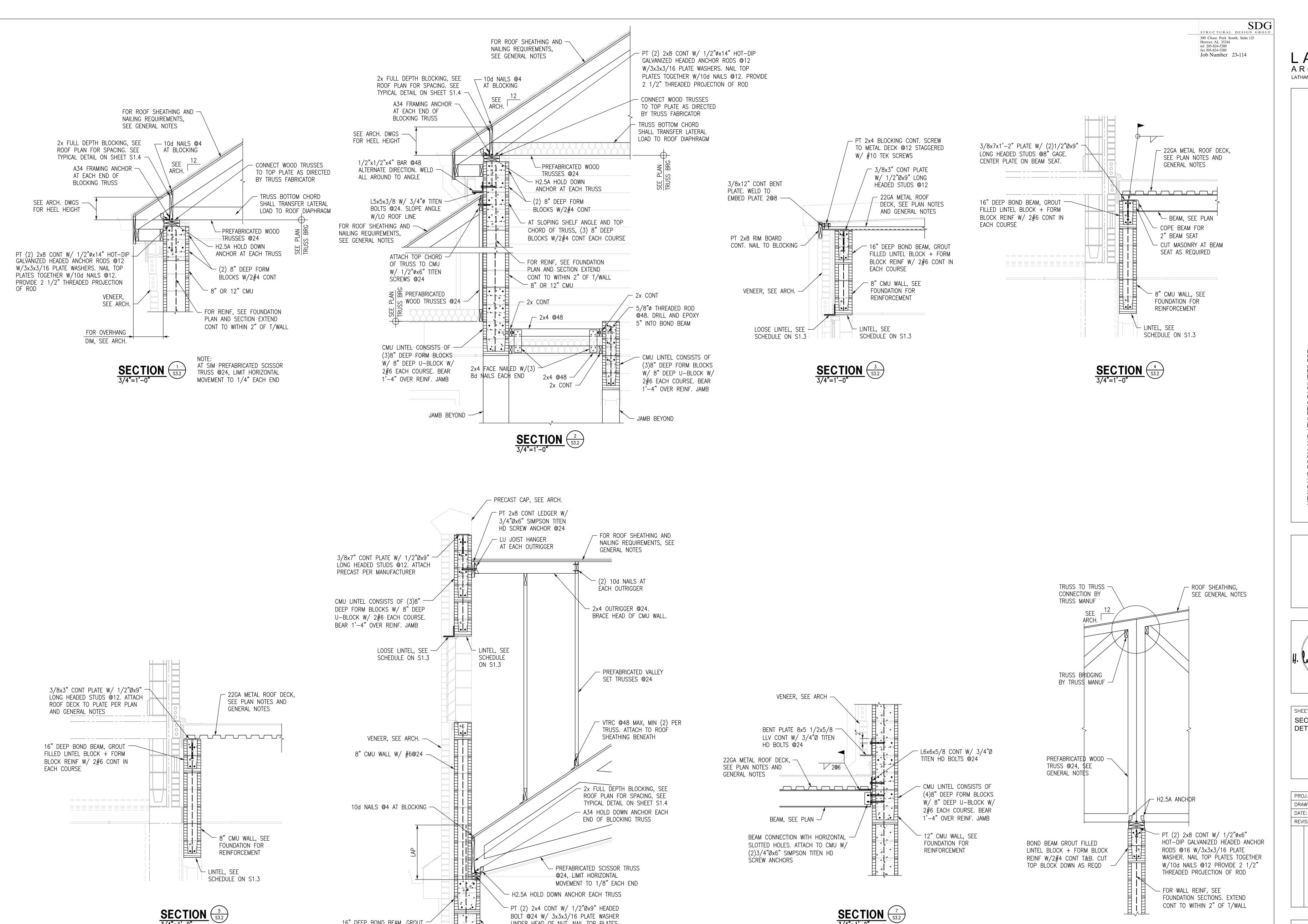
PROJ. MGR.: HCW
DRAWN: SPH
DATE: NOVEMBER 3, 2023
REVISIONS

JOB NO. 22-47B

SHEET NO:

S3.1

8 OF 9



16" DEEP BOND BEAM, GROUT

FILLED LINTEL BLOCK + FORM

BLOCK REINF W/ 2#6 CONT

IN EACH COURSÉ

UNDER HEAD OF NUT. NAIL TOP PLATES

TOGETHER W/10d NAILS @12. BEND

- 12" CMU WALL, SEE FOUNDATION

BOLT FOR EXTENSION INTO WALL

FOR REINFORCEMENT

SECTION $\frac{6}{3/4"=1'-0"}$

3/4"=1'-0"

LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

FOR SCHOOL FACILITI HIGI NEW BAND ROOM AND AT

JACKSONVILLE CITY SCHC

||-3-2023

SHEET TITLE: **SECTIONS AND DETAILS**

PROJ. MGR.: HCW DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B** SHEET NO:

SECTION $\frac{8}{3/4"=1'-0"}$

							DUCT	LESS	HE/	AT PUM	P EQUI	PMENT	SCH	HED	ULE	(CEILIN	IG CAS	SET	TE)					
			С	OOLING CAPAC	ITY		Н	EATING CAPACITY				INDOOR UN	IT DATA				OUTDO	OR UNIT DATA	1			APPRO		
MARK NO.	NOMINAL FAN CFM	TOTAL CAP. MBH	SENS. CAP. MBH	COND. E.A.T.	EVAP. E.W.B. TEMP	MIN. SEER	LOW TEMP 17° E.A.T. MBH	HIGH TEMP 47* E.A.T. MBH	MIN. HSPF	MANUFACTURER (OR APPROVED EQUAL)	VOLTAGE	MODEL NO.	FAN MOTOR FLA	MCA (A)	UNIT WEIGHT (LBS.)	VOLTAGE	MODEL NO.	COMP. R.L.A. (A)	MCA (A)	MOCP (A)	UNIT WEIGHT (LBS.)	GAS (IN. O.D.)	LIQUID (IN. O.D.)	NOTES
DHP 1	335	12.0	8.88	95	80/67	22.0	8.9	13.0	11.4	MITSUBISHI	208/230-1-60	SLZ-KF12NA	0.24	0.30	31	208/230-1-60	SUZ-KA12NA2	6.6	9	16	81	3/8	1/4	SEE BELOW

- (1) ALL UNITS TO INCLUDE A WALL MOUNTED 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT WITH SUB-BASE AND LOCKING COVER. THERMOSTAT SHALL BE FACTORY MA REMOTE CONTROLLER MODEL PAR-40MAAU.
- (2) INDOOR UNIT TO BE CEILING CASSETTE WITH INTERNAL FACTORY CONDENSATE PUMP.
- (3) INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
- (4) ALL CASSETTE UNITS SHALL BE 24"X24" TO MATCH STANDARD LAY-IN CEILING TILE GRID.
- (5) CASSETTE UNIT FRAME SHALL NOT IMPEDE ACCESS TO ADJACENT ITEMS SUCH AS CEILING LIGHTS, ETC.
- (6) VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER (REFRIGERANT R-410A).
- APPROVED EQUALS: FUJITSU, TOSHIBA CARRIER, AND TRANE

- (7) ALL UNITS TO INCLUDE CONDENSER HAIL GUARD.
- (8) UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.
- ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. COORDINATE WITH EQUIPMENT MANUFACTURER.
- CONTRACTOR'S VENDOR SHALL PROVIDE REFRIGERANT LINE FINAL SIZES, LENGTHS, ETC. PER MANUFACTURER'S RECOMMENDATION. SUBMITTAL DRAWINGS SHALL INCLUDE CONTROLS, LINE SIZES, ETC. CONTRACTOR SHALL COORDINATE SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT QUOTED PRIOR TO BIDDING.
- (12) FURNISH AND INSTALL FACTORY PRE-INSULATED REFRIGERANT LINE SETS.

- (13) EACH LINE SET SHALL INCLUDE FACTORY BALL VALVES FOR UNIT ISOLATION.
- (14) REFRIGERANT PIPING SHALL BE LABELED TO MATCH ASSOCIATED INDOOR AND OUTDOOR UNIT.
- (15) ALL EXPOSED INTERIOR REFRIGERANT PIPING SHALL BE ROUTED IN SCHEDULE 40 PVC. PRIME AND PAINT TO MATCH ADJACENT SURFACES. VERIFY PAINT COLOR WITH ARCHITECT.
- (16) USE INSULATED REFRIGERANT PIPING CLAMPS WHERE REFRIGERANT PIPING IS INSULATED.
- FURNISH AND INSTALL INTESIS BACNET/IP AND MS/TP INTERFACE COMPLETELY INTERFACE TO EXISTING DELTA CONTROLS BUILDING AUTOMATION SYSTEM.

HVAC NOTES

- (1) ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL.
- INSTALL OPPOSED BLADE BALANCING DAMPERS IN ALL NEW DIFFUSERS AND GRILLES.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES; COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.
- 6) COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH ALL TRADES COORDINATED WILL BE
- THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL RATED WALLS, CEILINGS, FLOORS, ETC. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.
- ALL MOTOR STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.
- CONTRACTOR TO COORDINATE ALL CEILING TYPES WITH DIFFUSERS. ALL DIFFUSERS IN GYPSUM CEILING SHALL INCLUDE PLASTER FRAME.
- ALL DISTRIBUTION DEVICES SHALL HAVE FACE OPERABLE DAMPERS. ALL DIFFUSER RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER IN ROUND DUCTS.
- INSULATE TOP SIDE/BACK OF ALL DIFFUSERS/GRILLES, ETC.
- CONDENSATE DRAIN PIPING SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT AND SHALL BE SIZED PER TABLE 307.2.2 IN THE 2021 INTERNATIONAL MECHANICAL CODE UNLESS SHOWN LARGER ON PLANS.
- ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED
- INSTALL AUXILIARY DRAIN PAN UNDER ALL UNITS MOUNTED IN ATTIC, ABOVE CEILINGS, ETC. INSTALL FLOAT SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN.
- REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.

VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING

ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL

110 PINTS/DAY

110 PINTS/DAY

- HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH ARCHITECT.
- ALL UNUSED PORTION OF LOUVERS SHALL BE CAPPED OFF WITH 1" INSULATED ALUMINUM AND SEALED AIR/WATER TIGHT.
- ALL THERMOSTATS TO BE AUTOMATIC CHANGE OVER TYPE AND SHALL INCLUDE LOCKING THERMOSTAT COVERS.
- ALL REFRIGERANT LINES SHALL BE SIZED/APPROVED BY THE EQUIPMENT VENDOR/COMPRESSOR MANUFACTURER.

UNLESS OTHERWISE INDICATED.

REFRIGERANT

(1) UNIT TO INCLUDE FACTORY CONDENSATE PUMP KIT.

(3) UNIT TO BE CONTROLLED BY FACTORY UNIT MOUNTED DEHUMIDISTAT.

(2) UNIT TO INCLUDE FACTORY MERV-13 FILTER.

(4) UNIT DIMENSIONS: 20"W X 36"H X 17"D.

NOMINAL FAN

- PAINT ALL EXTERIOR EXPOSED ARMAFLEX INSULATION FOR UV PROTECTION.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- FLEXIBLE DUCT (SUPPLY RUNOUTS ONLY) SHALL NOT EXCEED 6'-0" IN LENGTH. DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
- RECTANGULAR SUPPLY: 1" INTERNAL ROUND SUPPLY: 1-1/2" EXTERNAL FLEXIBLE SUPPLY: 1" PRE INSULATED RECTANGULAR RETURN: 1" INTERNAL OSA/EXHAUST: 1-1/2" EXTERNAL
- DUCTWORK SHALL BE GALVANIZED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
- CONCEALED DUCTWORK: LABEL ALL DUCTS WITH TYPE (SUPPLY, RETURN, ETC.) AND ARROWS INDICATING DIRECTION OF AIR FLOW. LABELS SHALL BE EVERY SIX FEET AND AT EACH CHANGE OF DIRECTION (T'S, ELBOWS, ETC.)
- ROUND DUCT SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM INSTALLED R-VALUE 4.2. ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0
- ALL OPEN ENDED DUCT SHALL BE CAPPED WITH 1/2"X1/2" WIRE MESH.
- UNLESS OTHERWISE NOTED: ALL EXPOSED DUCT SHALL BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH MINIMUM INSTALLED
- UNLESS OTHERWISE NOTED: ALL EXPOSED DUCT SHALL BE PAINTED. DUCT SHALL BE "PAINT GRIP". COORDINATE PAINT COLOR WITH ARCHITECT.
- DUCT LINER FOR RECTANGULAR DUCTS SHALL BE EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ATTIC SHALL BE LINED WITH DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH A MINIMUM INSTALLED R-VALUE OF 4.2.
- EXTERIOR DUCT SHALL INCLUDE INSTALLATION OF GLASS CLOTH OVER INSULATION. GLASS CLOTH JACKET SHALL BE DRAWN SMOOTH AND TIGHT WITH A 2-INCH OVERLAP AT JOINTS. EMBED GLASS CLOTH BETWEEN TWO (2) 1/16-INCH-THICK COATS OF LAGGING ADHESIVE. COMPLETELY ENCAPSULATE THE INSULATION WITH THE JACKET. LEAVING NO EXPOSED RAW INSULATION. FLEXIBLE ELASTOMERIC SHEET 2" THICK MAY BE USED IN LIEU OF 2"-FIBERGLASS ON EXTERIOR DUCT. HOWEVER, GLASS CLOTH JACKET SHALL BE RETAINED IF ELASTOMERIC INSULATION IS USED. MINIMUM INSTALLED
- EXTERIOR DUCT SHALL BE JACKETED WITH MFM BUILDING PRODUCTS FLEX-CLAD 250. FLEX-CLAD 250 SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. FLEX-CLAD COLOR SHALL BE AS SELECTED BY ENGINEER. STANDARD COLORS ARE
- THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL A SMOKE DETECTOR FOR FIRE SHUT DOWN IN ALL UNITS 2000 CFM AND ABOVE AND IN ALL UNITS SERVING EXIT ACCESS CORRIDORS REGARDLESS OF SIZE.
- ALL DAMPERS INTERLOCKED WITH CARBON DIOXIDE SENSOR SHALL BE 24 VOLT MODULATING MOTORIZED DAMPER. DAMPER SHALL INCLUDE STEP DOWN TRANSFORMER
- WARRANTIES SHALL BEGIN AT DATE OF SUBSTANTIAL COMPLETION.
 ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT.
- CONTRACTOR SHALL ANCHOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER PLANS/SPECIFICATIONS. COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC. WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
- THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.
- ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.

MODEL NO.

SANTA-FE CLASSIC

SANTA-FE CLASSIC

PORTABLE DEHUMIDIFIER EQUIPMENT SCHEDULE

115-1-60

(OR APPROVED)

EQUAL)

THERMA-STOR

		Н	VAC LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\boxtimes	CEILING DIFFUSER — SUPPLY RECTANGULAR WITH ROUND NECK 4—WAY THROW UNLESS OTHERWISE INDICATED		MANUAL VOLUME DAMPER OPPOSED BLADE	<u>C</u>	STANDARD 90° RADIUS ELBOW
	CEILING DIFFUSER — RETURN RECTANGULAR WITH SQUARE NECK	M	LOW LEAKAGE MOTORIZED VOLUME DAMPER	₿.	STANDARD 45° RADIUS ELBOW
<u> </u>	SIDEWALL DIFFUSER — SUPPLY WITH MULTI—VANE DEFLECTOR	\$,	SMOKE DETECTOR FOR FAN SHUT-DOWN	MARK X	90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
<u>_</u>	SIDEWALL DIFFUSER — RETURN WITH 30° FIXED DEFLECTION	•	HORIZONTAL MOUNTED FIRE DAMPER	\$	45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
XX-X XXX CFM	DIFFUSER TAG REFERENCE SCHEDULE FOR SIZING	•	VERTICAL MOUNTED FIRE DAMPER		VANED TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING)
12"X12"\	NEW RECTANGULAR DUCT WIDTH X DEPTH	▲ FSD	FIRE/SMOKE DAMPER		STANDARD DUCT SIZE TRANSITION
e 10"ø	NEW ROUND DUCT DIAMETER	T	THERMOSTAT LOCATION		STANDARD SQUARE TO ROUND TRANSITION
	ACCESS DOORS VERTICAL OR HORIZONTAL	H	HUMIDISTAT LOCATION	CD	HVAC CONDENSATE DRAIN PIPING
R → Y	DUCT RISE IN DIRECTION OF ARROW	C	CARBON DIOXIDE SENSOR LOCATION	R	HVAC REFRIGERANT LINE
\-D\	DUCT DROP IN DIRECTION OF ARROW	*	ELECTRIC UNIT HEATER WALL MOUNTED (RECESSED)		

							MAXIMUM		MODEL N	O. DATA	
MARK NO.	MOUNTING	SIZE W X H	BLADE ANGLE	BLADE CENTERS	MIN. FREE AREA	MINIMUM FREE AREA SQ. FT.	PRESSURE DROP IN W.G.	CFM	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES
L 1	SIDE WALL	16"X8"	45°	3"	23%	0.20	0.10	75	GREENHECK	ESD-202	SEE BELOW
$\frac{L}{2}$	SIDE WALL	16"X8"	45°	3"	23%	0.20	0.10	75	GREENHECK	ESD-202	SEE BELOW

EXHAUST FAN SCHEDULE (ALTERNATE)												
MARK NO.	MOUNTING	CFM	STATIC IN W.G.	SONES	WATTS/H.P.	VOLTAGE	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	WEIGHT (LBS.)	NOTES		
(EF)	CEILING	75	0.25	1.6	55	115-1-60	LOREN COOK	GC-142	15	SEE BELOW		
EF 2	CEILING	75	0.25	1.6	55	115–1–60	LOREN COOK	GC-142	15	SEE BELOW		

4) FAN EF-1 AND EF-2 TO BE INCLUDED IN ALTERNATE.

APPROVED EQUALS: BREIDERT, GREENHECK, AND PENN.

(2) FAN TO BE SWITCHED WITH LIGHTING.

APPROVED EQUALS: RUSKIN AND UNITED ENERTECH.

CODES & STANDARDS

- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ASHRAE 90.1-2013 ENERGY STANDARD

HV	AC DRAWING INDEX
SHEET NO.	SHEET TITLE
M1.1	HVAC LEGEND, NOTES, AND SCHEDULES
M1.2	HVAC SCHEDULES AND IAQ/COMPLIANCE CALCULATIONS
M2.1	HVAC DETAILS
M2.2	HVAC DETAILS
M2.3	HVAC DETAILS
МЗ.1	HVAC PLAN
М3.2	HVAC PLAN — ALTERNATE

WHORTON ENGINEERING, INC.

RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 23152

HVAC - PLUMBING - PROCESS CONTROL

JOB NO. **22-47B**

11-03-2023

SHEET TITLE:

HVAC LEGEND,

NOTES, AND

SCHEDULES

PROJ. MGR.:

REVISIONS

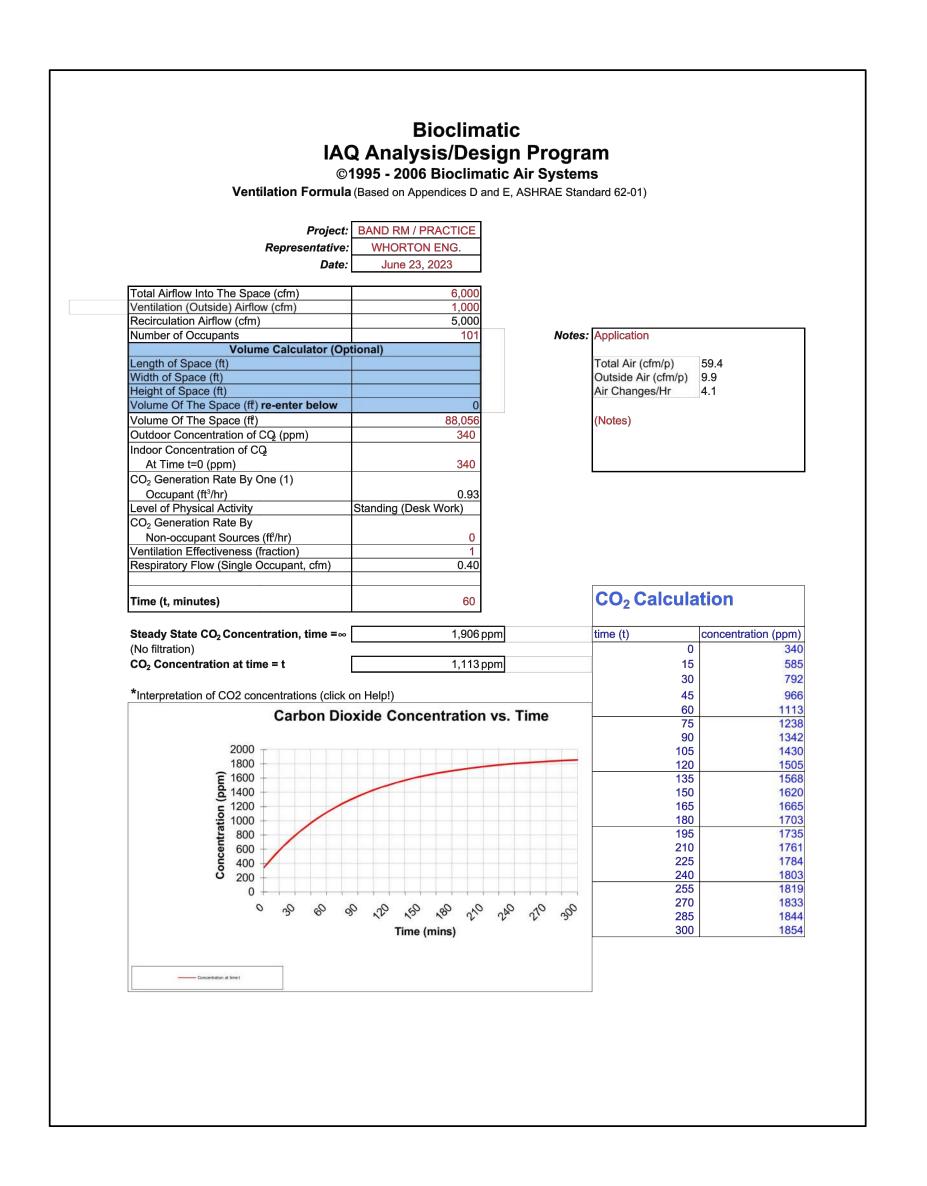
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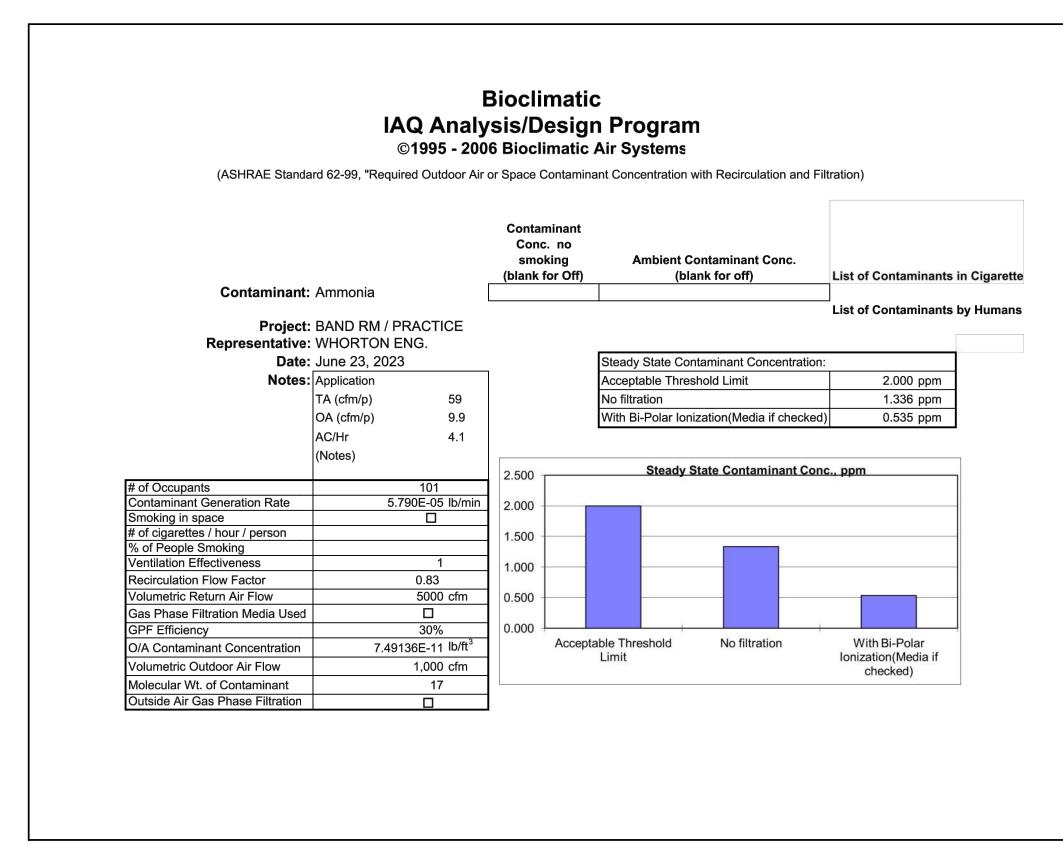
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SHEET NO: 1 OF 7

HVAC LEGEND, NOTES, AND SCHEDULES

NOTES





IARK NO.	NOMINAL CFM	VOLTAGE	WATTS	BTU/HR	AMPS	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	UNIT WEIGHT (LBS)	NOTES
WEH 1	100	208-1-60	1,500	5,120	7.2	BERKO	FRC4024F	25	SEE BELOW
WEH 2	100	208-1-60	1,500	5,120	7.2	BERKO	FRC4024F	25	SEE BELOW
WEH 3	100	208-1-60	1,500	5,120	7.2	BERKO	FRC4024F	25	SEE BELOW
② ¦	UNIT TO INCLUD MOUNTED BEHIN	DE BUILT-IN TAMPER DE FACTORY DISCON ID FRONT GRID PAN DE THERMAL CUTOU	NECT SWITCH - IEL.	- (5) UNIT TO E	NCLUDE SEMI-RECESSE BE MOUNTED AT 16" AF -2 AND WEH-3 TO BE	F.		

J	ACK		NVILL 21 IMC														00	M
		55051.5	OUTDOOR A	IR CALCULAT	IONS									E	EXHAUST AI	IR		
ROOM NAME	AREA (SF)	PEOPLE (QTY)	PEOPLE (CFM/PERSON)	AREA (CFM/SF)	TOTAL (VOU)	EZ	VOZ CFM	VPZ CFM	ZP VOZ/VPZ	EV	VOT	DESIGN CFM	CFM/SF	FIXTURES	UNIT	REQUIRED CFM	DESIGN CFM	UNIT
BAND ROOM/PRACTICE	3,663	101			SEE BAND	ROOM/PRA	ACTICE BIOC	CLIMATIC SHE	EET —			1,000						PHP-1
OFFICE	129	1	5.0	0.06	13	0.8	16	175	0.09									PHP-2
INSTRUMENT REPAIR	148	1	5.0	0.06	14	0.8	17	230	0.08									PHP-2
CORRIDOR	150	0	0.0	0.06	9	0.8	11	125	0.09									PHP-2
CORRIDOR	393	0	0.0	0.06	24	0.8	29	270	0.11									PHP-2
SMALL ENSEMBLE/ PERCUSSION	641	23	10.0	0.06	268	1.0	268	1,250	0.21									PHP-2
TOTAL (PHP-2)	1,376				328					0.94	349	350						PHP-2
JAZZ/CHOIR	796	28	10.0	0.06	328	1.0	328	1,350	0.24									PHP-3
OFFICE	145	1	5.0	0.06	14	0.8	17	200	0.09									PHP-3
TOTAL (PHP-3)	941				342					0.91	376	380						PHP-3
BOYS (ALTERNATE)														1	75	75	75	EF-1
CIRLS (ALTERNATE)														1	75	75	75	FF_2

						COOLING	CAPACITY			F	EATING CAPACIT	Υ	MODEL N	O. DATA	
ARK O.	NOMINAL FAN CFM	OSA CFM	EXT. STATIC (IN. W.G.)	TOTAL CAPACITY MBH	SENS. CAPACITY MBH	CONDENSER E.A.T.	EVAPORATOR E.W.B. TEMP	MIN. SEER/EER	MIN. IEER	LOW TEMP 17° E.A.T. MBH	LOW TEMP 47° E.A.T. MBH	HSPF/COP	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	NOTES
HP 1	6,000	1,000	0.8"	181.7	139.3	95	80/67	EER 12.0	17.9	97.1	161.1	COP 3.9	TRANE	WHJ180	SEE BELO
#P 2	2,400	350	0.8"	78.9	59.5	95	80/67	EER 12.1	16.0	43.9	74.6	COP 3.5	TRANE	WHC074	SEE BEL
HP)	2,000	380	0.8"	61.0	49.1	95	80/67	SEER 16.4	N/A	33.7	57.2	HSPF 9.0	TRANE	WHC060	SEE BEL
TAL		1,730		321.6		•	•			•					•
8 (9) (1) (1) (1) (1) (2) (1)	INIT TO INCLUDINIT TO INCLUDINIT TO INCLUDINIT TO INCLUDINIT PHP-1 AN	E LOW AMBIEN E ALL NECESS E FACTORY RE E 2" FILTERS D PHP-2 TO 1	TURN AIR SMOKE	O'F. IND DAMPER ACE DETECTOR. ID INDOOR MOTO	TUATORS TO P	ROVIDE ULTRA L	.OW LEAKAGE EC	CONOMIZER FUNC	CTION WITH CC	IMPARATIVE ENTH	ALPY CONTROL.				
_			2013 COMPLIAN												
_															

	PACKAGED HEAT PUMP ELECTRICAL SCHEDULE											
MARK NO.	VOLTAGE	COMPRESSOR QTY	COMPRESSOR R.L.A. (EACH)	OUTDOOR FAN QTY	OUTDOOR FAN H.P. (EACH)	INDOOR FAN MOTOR H.P. (EACH)	ELECTRIC STRIP HEAT KW	MINIMUM CIRCUIT AMPS	MAXIMUM OVERCURRENT PROTECTION	SINGLE POINT CONNECTION	UNIT WEIGHT LBS	NOTES
PHP 1	208/230-3-60	2	(1,2) 30.9,16.4	2	(1,2) 0.5,0.5	(1,2) 3.0,3.0	40.6/54.0	218/207	225/225	YES	3,055	_
PHP 2	208/230-3-60	2	(1,2) 14.2,13.2	1	0.70	2.75	20.3/27.0	112/123	125/125	YES	1,275	_
PHP 3	208/230-3-60	1	16.5	1	0.40	1.5	13.1/17.4	72/79	80/80	YES	1,110	_

	DEHUMIDIFIER EQUIPMENT SCHEDULE											
			WATER REMOVAL		ELECTRIC	CAL	MODEL	NO. DATA				
MARK NO.	NOMINAL FAN CFM	REFRIGERANT	80°F 60% RH	OPERATING RANGE	POWER SUPPLY	AMPS	MANUFACTURER (OR APPROVED) EQUAL)	UNIT MODEL NO.	WEIGHT (LBS.)	NOTES		
DH 1	495	R-410A	205 PINTS/DAY	49°-95°F	115-1-60	13.2	THERMA-STOR	SANTA-FE ULTRA205	140	SEE BELOW		
DH 2	495	R-410A	205 PINTS/DAY	49°-95°F	115–1–60	13.2	THERMA-STOR	SANTA-FE ULTRA205	140	SEE BELOW		

- (1) UNIT TO BE COMPLETELY INTERFACED TO EXISTING DELTA CONTROLS BUILDING AUTOMATION SYSTEM.
- (2) UNIT TO INCLUDE FACTORY DUCT COLLARS (10").
- (3) UNIT TO INCLUDE FACTORY MERV-13 FILTER.
- (4) UNIT TO INCLUDE FACTORY CONDENSATE PUMP KIT.

WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

25 SUMMERALL GATE ROAD

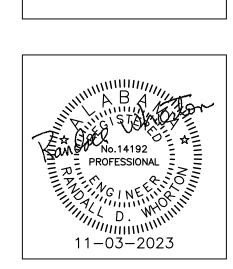
ANNISTON, ALABAMA 36205

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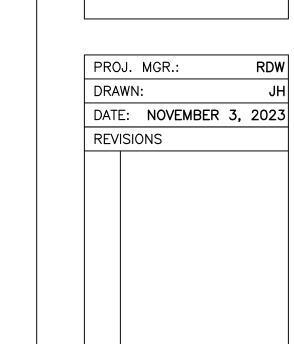


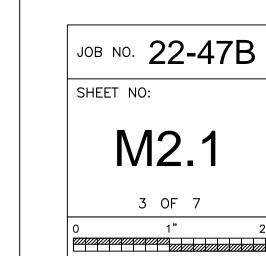
SHEET TITLE: HVAC SCHEDULES AND IAQ / COMPLIANCE CALCULATIONS

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PRO	J.	MGR.:		RDW
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DATE	<u>:</u> :	NOVEMBER	3,	2023
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JOB NO. **22-47B** 2 OF 7

11-03-2023





WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

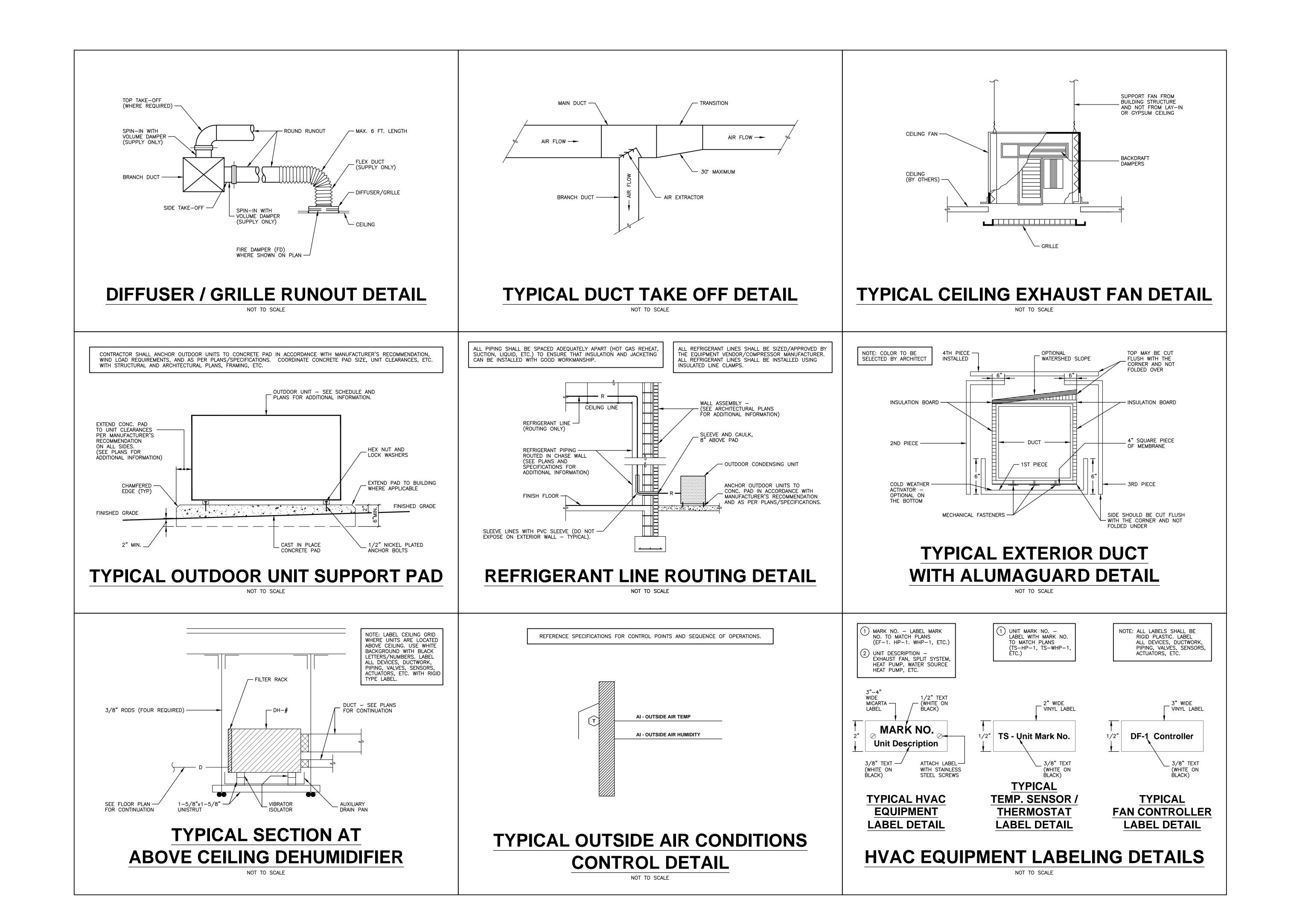
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25 SUMMERALL GATE ROAD

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BUILDING AUTOMATION SYSTEM INTER-TRADE RESPONSIBILITY MATRIX

FMS = FACILITY MANAGEMENT SYSTEM/BUILDING AUTOMATION SYSTEM CONTRACTOR 15 = DIVISION 15 CONTRACTOR (PLUMBING OR HVAC) 16 = DIVISION 16 CONTRACTOR (ELECTRICAL CONTRACTOR)

	WORK	FURNISH	INSTALL	LOW VOLTAGE WIRE AND CONDUIT	LINE POWER AND CONDUIT
1	DUCT SMOKE DETECTORS (SHOWN ON PLANS)	17/16	15	FMS	17/16
2	AUTOMATION DAMPERS	FMS	15	FMS	FMS
3	MANUAL VALVES, DAMPERS	15	15		
4	PIPE INSERTION DEVICES AND TAPS INCLUDING THERMOWELLS FLOW AND PRESSURE STATIONS, ETC <u>REQUIRING</u> DDC INTERFACE.	FMS	15	FMS	FMS
5	PIPE INSERTION DEVICES AND TAPS INCLUDING THERMOWELLS FLOW AND PRESSURE STATIONS, ETC. NOT REQUIRING DDC INTERFACE.	15	15		
6	THERMOSTATS/HUMIDISTATS/CARBON DIOXIDE SENSORS	FMS	FMS	FMS	
7	FMS LOW VOLTAGE AND COMMUNICATION WIRING	FMS	FMS	FMS	
8	FMS CONDUITS AND RACEWAY	FMS	FMS	FMS	
9	CONTROL RELAYS	FMS	FMS	FMS	
10	FMS NETWORK ROUTERS, BRIDGES, HUBS AND ASSOCIATED CABLING	FMS	FMS	FMS	
11	FMS NODES, EQUIPMENT, HOUSINGS, ENCLOSURES AND PANELS AND POWER FROM DIV. 16 PANELS	FMS	FMS	FMS	FMS
12	THERMOSTAT/HUMIDISTAT/CO2 DETECTOR FOR CONTROL OF FRESH AIR MOTORIZED DAMPERS	FMS	15	FMS	FMS
13	FMS SOFTWARE, FIRMWARE AND PROJECT SPECIFIC SOFTWARE CONFIGURATIONS AND DATABASE ENTRIES	FMS	FMS	FMS	
14	MOTORIZED DAMPERS	FMS	15	FMS	FMS
15	SPLIT SYSTEM CONTROLLERS, DEHUMIDIFIER CONTROLLERS, PACKAGED UNIT CONTROLLERS	FMS	FMS	FMS	16

DDC SYSTEM NOTES

- 1) INTERFACE ALL EQUIPMENT INTO THE EXISTING BUILDING AUTOMATION SYSTEM. GRAPHICS, FLOOR PLANS, EQUIPMENT GRAPHICS, ETC. SHALL BE PROVIDED IN THE BUILDING AUTOMATION SYSTEM TO COORDINATE WITH PLANS.
- (2) ALL UNITS SHALL BE PROGRAMMED FOR OCCUPIED MODE AND UNOCCUPIED MODE.

(1) SMOKE DETECTORS MUST BE COORDINATED WITH THE FIRE ALARM CONTRACTOR.

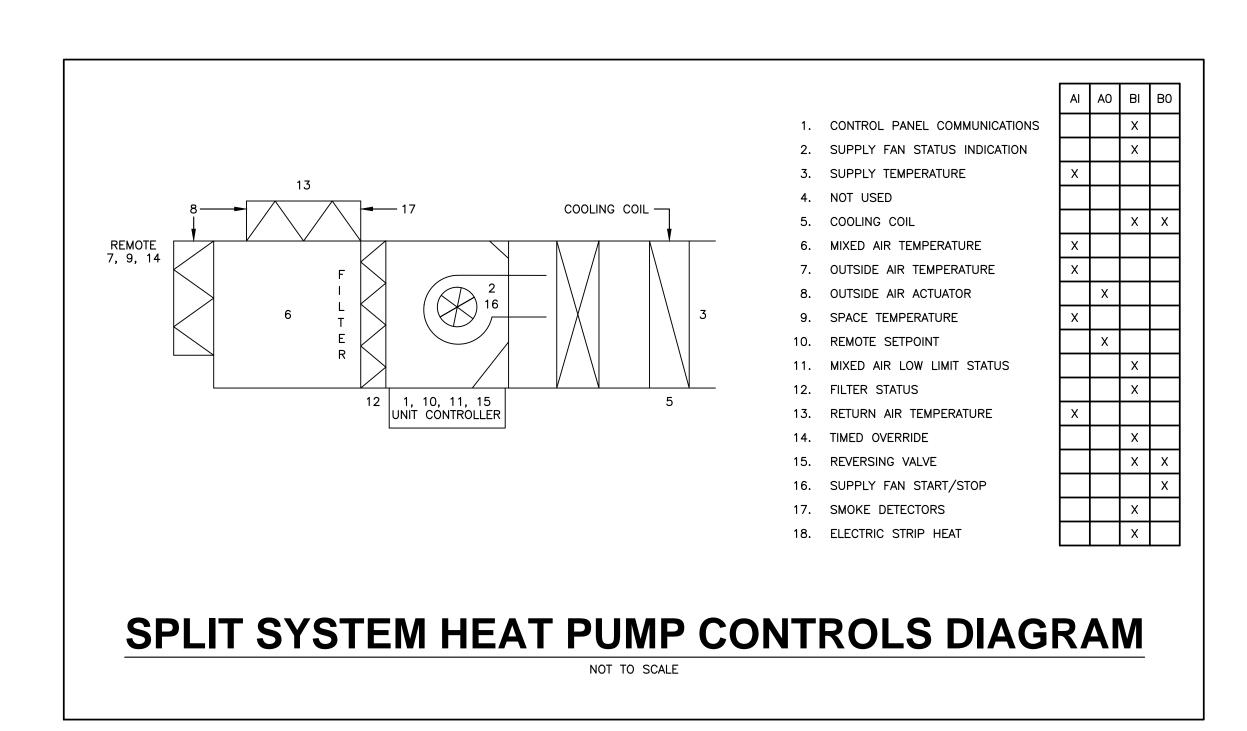
- 3) ALL NEW FRESH AIR MOTORIZED DAMPERS SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM WITH OCCUPANCY SCHEDULE, UNLESS OTHERWISE NOTED.
- 4) ALL CONTROLS COMPONENTS INCLUDING SENSORS, DAMPERS, ETC. SHALL BE LABELED TO MATCH CONTROL DRAWINGS.
- (5) ALL I.P. ADDRESSES SHALL BE LABELED.
- (6) ALL CONTROL PANELS SHALL BE LABELED.
- (7) LAMINATED CONTROL DRAWINGS SHALL BE INSTALLED AT CONTROL JACE PANELS.
- 8 ALL JACE CONTROL PANELS AND VRF MASTER CONTROL PANEL SHALL INCLUDE BATTERY
- 9 COORDINATE DDC CONTROLLER TERMINAL ASSIGNMENTS WITH OWNER DDC STANDARDS
- DDC CONTROLS AS-BUILT DRAWINGS SHALL INCLUDE COLOR CODES FOR ALL MULTI-CONDUCTOR CABLES.
- (1) ALL CONTROL DEVICES SHOWN ON THE CONTROL DIAGRAMS SHALL BE FURNISHED BY THE FMS CONTRACTOR UNLESS OTHERWISE NOTED OR SPECIFIED.
- 12) ALL COMPONENTS REQUIRED FOR THE SEQUENCES OF OPERATION, SHOWN AND/OR DESCRIBED ON THE CONTROL DIAGRAMS AND/OR SPECIFICATIONS, OR AS REQUIRED FOR A PROPERLY OPERATING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE FMS CONTRACTOR UNLESS OTHERWISE NOTED. (13) FMS CONTRACTOR IS RESPONSIBLE TO FURNISH, INSTALL, AND WIRE ALL COMPONENTS
- REQUIRED FOR INTEGRATION OF INFORMATION SHOWN TO BE ACCESSED BY THE FMS FROM OTHER SYSTEMS AND EQUIPMENT UNLESS OTHERWISE BE NOTED OR SPECIFIED.
- (14) EXISTING BUILDING AUTOMATION SYSTEM IS DELTA CONTROLS.
- ALL POWER WIRING AND TRANSFORMERS FOR SENSORS, ACTUATORS, AND OTHER CONTROL COMPONENTS AS REQUIRED FOR THE FMS AND/OR DDC SYSTEMS TO FUNCTION PROPERLY, SHALL BE FURNISHED AND INSTALLED BY THE FMS CONTRACTOR UNLESS OTHERWISE SHOWN, NOTED, OR SPECIFIED.

- 16) ALL POWER WIRING FOR SENSORS, ACTUATORS, AND OTHER DEVICES SHALL BE FROM THE DDC PANEL OR THE FMS/BAS PANEL OF THE ASSOCIATED SYSTEM.
- ALL CONTROL, INTERLOCK, AND POWER WIRING SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATION, LOCAL, STATE, AND NATIONAL CODES. RACEWAY SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATIONS.
- ALL CONTROL POINTS SHOWN ON THE CONTROL DIAGRAMS SHALL BE PROVIDED AND INTEGRATED INTO A FMS/BAS SYSTEM GRAPHIC REPRESENTATIVE OF THE CONTROL DIAGRAMS.
- (19) ALL CONTROL BANDS, SETPOINTS, SETPOINT LIMITS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES, ALARM LIMITS, AND OTHER PARAMETERS SHALL BE ADJUSTABLE FROM THE FMS/BAS.
- (20) ALL SETPOINTS SHALL BE ADJUSTABLE FROM THE FMS/BAS SYSTEM GRAPHIC(S).
- (21) SPACE SETPOINTS SHALL BE ADJUSTABLE FROM THE ROOM SENSOR UNLESS OTHERWISE SHOWN ON DRAWINGS OR SPECIFIED.
- THE FMS/BAS SYSTEM GRAPHICS SHALL BE LINKED WITH ASSOCIATED BUILDING FLOOR PLANS FROM THE SPACE SENSOR OR AREA SERVED.
- WHERE ONE SYSTEM IS ASSOCIATED WITH ANOTHER SYSTEM, THE SYSTEM GRAPHIC SHALL BE LINKED TO THE ASSOCIATED GRAPHIC AS WELL AS THE BUILDING FLOOR PLAN GRAPHIC. EXAMPLE — A WATER SOURCE/GEOTHERMAL HEAT PUMP UNIT SYSTEM GRAPHIC SHALL BE LINKED TO THE LOOP WATER SYSTEM GRAPHIC IN ADDITION TO BOTH BEING LINKED TO THE BUILDING FLOOR PLAN.
- THE BUILDING FLOOR PLAN SHALL DISPLAY THE SPACE TEMPERATURE AT EACH SPACE SENSOR LOCATION WITH AREA SERVED DISPLAYED IN SEPARATE COLORS BASED ON THE CONDITION OF THE ZONE. EXAMPLE — ALARM, NORMAL, HIGH OR LOW TEMPERATURE, HIGH OR LOW HUMIDITY, ETC.
- 25) ALL BUILDING FLOOR PLANS AND SYSTEM GRAPHICS SHALL DISPLAY OUTSIDE AIR TEMPERATURE AND HUMIDITY.
- THE FLOOR PLAN GRAPHICS SHALL BE LINKED TO A BUILDING GRAPHIC WITH A DIGITAL PHOTOGRAPH BACKGROUND OF THE ACTUAL BUILDING. DURING CONSTRUCTION A TEMPORARY GRAPHICS MAY BE USED THAT IS REPRESENTATIVE OF THE BUILDING.
- (27) ALL GRAPHICS SHALL BE SUBMITTED IN COLOR WITH THE FMS/BAS SUBMITTAL.

	FMS/BASM	IONIT	ORING	i - GLC	DBAL	POINT	S LIST	
POINT ID	DESCRIPTION	POINT TYPE	UNITS	ACCURACY	TRENDING INTERVAL	ENERGY DASHBOARD DISPLAY	STATUS ALARM	NOTES
GENERAL							•	
DATE	DATE	Al	MM/DD/YYYY			Х		
TIME	TIME	Al	НН:ММ			Х		
BUILDING S	SENSORS						•	
OACO2	OUTSIDE AIR CARBON DIOXIDE LEVEL	Al	PPM	SPEC	15 MIN.			
OAT	OUTSIDE AIR DRY BULB TEMPERATURE	Al	°F	SPEC	15 MIN.	Х		
OAWB	OUTSIDE AIR WET BULB TEMPERATURE	AV	°F		15 MIN.			1
OAH	OUTSIDE AIR RELATIVE HUMIDITY	Al	%	SPEC	15 MIN.	Х		
OADP	OUTSIDE AIR DEWPOINT	AV	°F		15 MIN.			1)
OAENT	OUTSIDE AIR ENTHALPY	AV	BTU/LB	SPEC	15 MIN.			1

									E	H	U	M			FI	E	F	2	C	O	N	T	R	C)L		S	Y	S	Γ	E	M	F)(N	T			S	T								
								A۱	۱AL	.OG									f	3IN	AR`	<u> </u>											S	YST	ЕМ	S I	EA	TUF	RES	ı									
SYSTEM						IN	⊃U1	Γ				С	UTF	PUT				INP	UT				OUT	ΓPU	JT				AL	_AR	MS								Pf	₹00	GRA	AMS	;						
POINT DESCRIPTION												(A, 0-10VDC)	۵.			SDUCER	OFF	OPFN/CLOSFD		RTS	RIDE			1	BLE										JLING	RT/STOP	LIMITING	MAM	AICX	UCT	ORD.		3E	ET UP	ш	ING		NOTE	S
DEHUMIDIFIER	GRAPHIC	TEMPERATURE	PRESSURE	퓬	ΚW	KWH	BTU HR	GPM	PERCENT	CFM	SETPOINT	DDC (4-20MA	SETPOINT ADJ.					STATUS OPEN/		NO. OF STARTS	TIMED OVERRIDE	OFF/ON	\	LOCK OUT	ENABLE/DISABLE	HIGH ANALOG	LOW ANALOG	HIGH BINARY	LOW BINARY			FLOW FAIL	1 2/		TIME SCHEDULING	OPTIMAL START	ᄝ	RESET FVENT PROGRAM		ALARM INSTRUCT	MAINT. WK.	ME	1	SET BACK/SE	NIGHT PURGE	TENANT BILLING			
CONTROL PANEL	×											Х							Х						×					x		>	<		Х				X	X		Х		X					
SPACE HUMIDITY	×			x							х		×													X	х																						
FAN	×																x					х										x																	
CONDENSATE DRAIN	х																x											х																					

						А	NAI	LOG									ВІ	NAF	RY.											S	YST	EMS	S F	EAT	URE	S							
SYSTEM					INF	PUT					UTP	UT			IN	PU	Γ			OU	ITP	JT				Α	LAF	RMS								PRC)GR	AMS	3				
POINT DESCRIPTION AIR HANDLING UNITS (CONSTANT VOLUME)	, JH	TEMPERATURE	PRESSURE			H.	L		OINT	(4-20MA, 0-10VDC)	OINT ADJ.		J. TRANSDUCER	JS ON/OFF	R STATUS	STATUS OPEN/CLOSED	- 1	OF STARTS	IIMED OVERNIDE OFF/ON	OPEN/CLOSE	OUT	ENABLE/DISABLE	HIGH ANALOG	ANALOG	HIGH BINARY	LOW BINARY)F	SENSOR FAIL	COMM. FAIL	DIAGNOSTICS		OPTIMAL START/STOP			T PROGRAM	ALARM INSTRUCT	MAINT. WK. ORD.	TIME	MESSAGE	SET BACK/SET UP	NT BILLING	NO	TES
(CONSTANT VOLUME)	GRAPHIC	TEMP	PRES	Ĕ ₹	KWH	BTU	PERCENT	CFM	SETPOINT	DDC	SETPOINT		PNEU.	STATUS	FILTER	STAT		. N	OFF/ON	OPEN	LOCK	ENAB	풀	NO N	H	LOW	PROOF	SENS FIGW	COMM.	DIAGN	Į	OPTIMAL	DEMA	RESET	EVENT	ALAR	MAIN	RUN	EXP.	SET SET	TENANT		
AHU CONTROL PANEL	×																												X		,	⟨ X			×	: x		Х		х		UNIT MO	OUNTED
SUPPLY FAN	×													Х					X									×	<													STATUS IN	NDICATION
SUPPLY AIR	×	х									Х												X	х				×															
COOLING COIL	×									х				Х					Х																								
MIXED AIR	×	Х									Х												Х	Х				x															
DUTSIDE AIR	Х	Х		×																								x															
ACTUATOR OA/RA	X									Х																																MINIMUM C	DA ADJUS
SPACE	X	Х		×					X		X												X	X																			
TIMED OVERRIDE	X																	>	(
REMOTE SETPOINT	×						X				X																							х									
REVERSING VALVE	×													X					X																								
TILTER STATUS	×														x										X																		
RETURN AIR TEMP.	х	Х																					X	X				Х															
SMOKE DETECTORS	×													X					X																								
ELECTRIC STRIP HEAT	Х													X					×																								



RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

4 OF 7

SHEET NO:

11-03-2023

SHEET TITLE:

PROJ. MGR.:

DATE: NOVEMBER 3, 2023

JOB NO. **22-47B**

DRAWN:

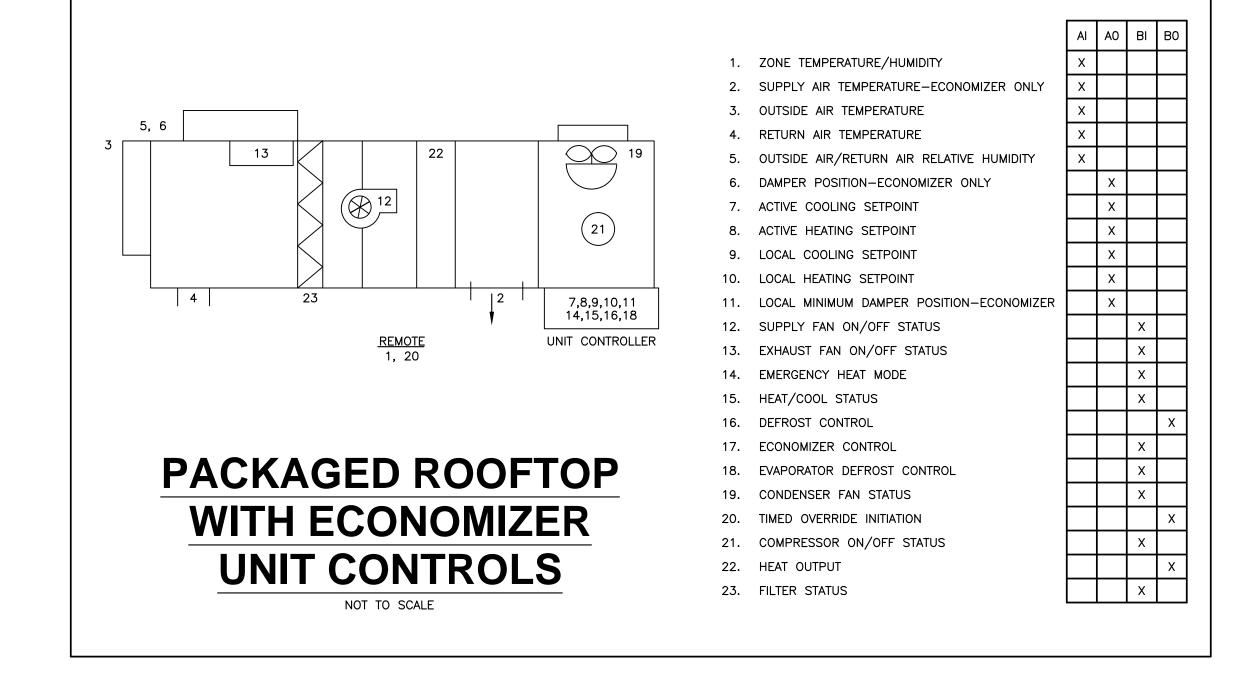
REVISIONS

HVAC DETAILS

WHORTON ENGINEERING PROJECT NO. 23152

HVAC DETAILS

PA	<u>ت</u>	K	A	G	L	D					F	T (O	P	V	VI		H					N	<u>O</u>	N				R) ()	N.								E		<u>/</u>	P	C		N	T	LIS	ST	
								NAI	LOG	}					+					BIN	ARY T					_									SYS	TEM	S F	EAT	UR									_			
SYSTEM						NPL	JT T				\perp		JTPL	JT 	1		11	VPU	JT —		4	(TUC	PU	IT T	_				Al	_AR	MS	; 			<u> </u>				Pl	RO(GRAI	MS T					_			
POINT DESCRIPTION		В									AA, 0-10VDC)	1	.لر	Z	OFF	SL	OPEN/CLOSED		राऽ	RIDE				ABLE	JTE		C)									JLING	START/STOP	5	RAM		RUCT	ORD.	댇	ET UP	Ш	NG			N	OTES	
LIGHT COMMERCIAL ROOFTOP	GRAPHIC	TEMPERATURE	PRESSURE	Τ ×	KWH KWH	BTU HR	1	PERCENT	CFM	C02	DDC (4-20MA,			MIN. POSITION	STATUS ON /OFF	FILTER STATUS	- 1	SD		TIMED OVERRIDE	OFF /ON	OPEN/CLOSE	LOCK OUT	ENABLE/DISABLE	LOCAL/REMOTE			LOW ANALOG	LOW BINARY	PROOF	SENSOR FAIL	FLOW FAIL	COMM. FAIL	LOCKOUT	DIAGNOSTICS	TIME SCHEDULING	OPTIMAL STA	DEMAND LIMITING RESET	EVENT PROGRAM	DDC	ALARM INSTRUCT	MAINT. WK.	- 1	SET BACK/SET	1 —	TENANT BILLING	TREND LOG				
UNIT CONTROLLER	х														X																		Х			х	х		Х	X				Х	Х		х				
SUPPLY FAN	х														X						X									Х															Х				STATUS	NDICAT	TION
COMP 1/COND FAN	х																							Х										х																	
COMPRESSOR 2	х																							х				х			х			х																	
HEAT OUTPUT 1	х																							Х											×																
HEAT OUTPUT 2	х																							х											×																
HEAT OUTPUT 3 REVERSING VALVE	Х																																		×																
EXHAUST FAN	Х																							Х																											
COND. FAN STATUS	Х														X							X													×																
SUPPLY AIR TEMP.	x	х																												x																	×				
EM. HEAT MODE	х														X	:								x																											
HI TEMP INPUT	x														X																																				
HEAT/COOL STATUS	х																	х																																	
DEFROST CONTROL	х														x																							×													
EVAP. DEFROST CONT.	х														X																																				
ECONOMIZER	X							X			×			×			X						X													X	X		X					X	X				MINIMUN	OA AD	JUST
ZONE SENSOR	Х	Х		x L																																															
LOCAL HEAT/COOL SETPOINT	×	х																																																	
SPACE	x	х		x L						Х																																							١	NOTE 1	
RETURN DUCT MOUNTED SENSOR	x	х		x						х																																							١	NOTE 1	



ECONOMIZER SEQUENCE OF OPERATION

DURING A FIRST STAGE CALL FOR COOLING, IF THE OUTDOOR-AIR HUMIDITY IS BELOW THE ECONOMIZER CONTROL CHANGEOVER DIFFERENTIAL ENTHALPY SET POINT, THE MIXED AIR SENSOR MODULATES THE ECONOMIZER OUTDOOR—AIR DAMPER TO PROVIDE COOLING FROM OUTSIDE AIR. WHEN SECOND—STAGE COOLING IS CALLED FOR, THE COMPRESSOR IS ENERGIZED IN ADDITION TO THE ECONOMIZER. IF THE OUTDOOR—AIR HUMIDITY IS ABOVE THE CHANGEOVER SET POINT, THE FIRST STAGE OF COMPRESSION IS ACTIVATED AND THE ECONOMIZER STAYS AT MINIMUM POSITION DURING OCCUPIED TIMES AND CLOSED IN UNOCCUPIED TIMES. ONE ENTHALPY SENSOR IS FACTORY LOCATED IN THE OUTDOOR AIR STREAM, AND ONE ENTHALPY SENSOR IS FACTORY LOCATED IN THE RETURN AIR STREAM TO PROVIDE DIFFERENTIAL ENTHALPY CONTROL.

OUTSIDE AIR CONDITIONS SEQUENCE OF OPERATIONS

OUTSIDE AIR CONDITIONS:

THE CONTROLLER SHALL MONITOR THE OUTSIDE AIR TEMPERATURE AND HUMIDITY AND CALCULATE THE OUTSIDE AIR ENTHALPY ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.

ALARM SHALL BE GENERATED AS FOLLOWS:

SENSOR FAILURE: SENSOR READING INDICATES SHORTED OR DISCONNECTED SENSOR. IN THE EVENT OF A SENSOR FAILURE, AN ALTERNATE OUTSIDE AIR CONDITIONS SENSOR SHALL BE MADE AVAILABLE TO THE SYSTEM WITHOUT INTERRUPTION IN SENSOR READINGS.

- = '5B'CI HG=89'5=F'H9AD9F5HIF9'G9BGCF'75BBCH'69'F958ž5'89:51 @H'J5@'9'C: '*) š: 'K =@@69'IG98"
- IF AN OUTSIDE AIR HUMIDITY SENSOR CANNOT BE READ, A DEFAULT VALUE OF 50 % WILL BE USED. **OUTSIDE AIR TEMPERATURE HISTORY:**

THE CONTROLLER SHALL MONITOR AND RECORD THE HIGH AND LOW TEMPERATURE READINGS FOR THE OUTSIDE AIR. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

COOLING DEGREE DAY:

THE CONTROLLER SHALL PROVIDE A DEGREE DAY HISTORY INDEX THAT REFLECTS THE ENERGY CONSUMPTION FOR THE FACILITIES 7 C C @B; 89 A 5 B 8 " 7 C A DIH5 H±C B G G< 5 @@IG9 5 'A 95 B 85 ±@M H9 A D9 F5 HIF9 C: *) š: 15 8 > "Ł" H< 9 8 9; F 99 85 M D9 5 ? 'J 5 @ 9 F 95 8 ± B; G SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

HEATING DEGREE DAY:

THE CONTROLLER SHALL PROVIDE A DEGREE DAY HISTORY INDEX THAT REFLECTS THE ENERGY CONSUMPTION FOR THE FACILITIES <95 HaB; 89A 5 B8 "7 CA DIH 5 H-CBG G< 5 @@IG9 5 A 95 B 85 =@M H9A D9F5 HIF9 C: *) ** 1658 > "L" H<9 89; F99 85 M D95? J5 @ 9 F958 + B; G SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

OUTSIDE AIR CONDITIONS CONTROL SYSTEM POINTS LIST

POINT NAME	HAF	RDWAR	E POI	NTS			SO	FTWARE POII	NTS		SHOW ON
POINT NAME	Al	AO	ВІ	во	AV	BV	LOOP	SCHED	TREND	ALARM	GRAPHIC
OUTSIDE AIR HUMIDITY	Х								Х		Х
OUTSIDE AIR TEMP	Х								Х		Х
OUTSIDE AIR ENTHALPY					х				Х		Х
HIGH TEMP MONTH-TO-DATE									Х		Х
HIGH TEMP TODAY									Х		Х
HIGH TEMP YEAR-TO-DATE									Х		Х
LOW TEMP MONTH-TO-DATE									Х		Х
LOW TEMP TODAY									Х		Х
LOW TEMP YEAR-TO-DATE							_		Х		Х
SENSOR FAILURE							-		-	Х	
TOTALS	2	0	0	0	1	0	0	0	9	1	9
	TOTA	L HAR	DWAR	E (2)			TOTA	L SOFTWARE	(11)		

	DUCTLESS S	SPLIT	SYSTI	EM - P	OINTS	LIST	
POINT ID	DESCRIPTION	POINT TYPE	DEFAULT SET POINT	FAIL POSITION	STATUS ALARM	ALARM RANGE	NOTES
BAS MONITORING	G, MANAGEMENT, AND ALARM INTERF	ACE WITH VRF	CENTRAL CO	NTROLLER			
DHP-ST-X	INDOOR UNIT "X" STATUS	BV					
DHP-ALM-X	INDOOR UNIT "X" ALARM	BV			х	COMMON ALARM	
DHP-MODE-X	INDOOR UNIT "X" MODE	BV					
ZONE LEVEL SEN	ISORS						
Z-T	ZONE TEMPERATURE	Al	SCHED		х	Z-T <> SPT	2 4
Z-OR	MANUAL OCCUPANCY OVERRIDE	ВІ	2 HOURS				4
Z-TA	MANUAL TEMPERATURE SETPOINT ADJUST	Al	± 2°F				3 4
Z-T-DB	ZONE TEMPERATURE	BV	5°F				4
FILTERS							
DF-RA	DIRTY FILTER INDICATION (RA FILTER)	BV	SCHED		х	ON ACTIVATION	4
LEAK DETECTION	N						
WM/CS/FC-CND	CONDENSATE OVERFLOW DETECTION	ВІ			х	ON ACTIVATION	1)

- 1) BUILDING AUTOMATION SYSTEM (BAS) CONTRACTOR SHALL PROVIDE DEVICE.
- 2) DEVICE FURNISHED BY VARIABLE REFRIGERANT FLOW (VRF) MANUFACTURER.
- (3) COORDINATE WITH OWNER THE LOCKOUT FUNCTIONS DESIRED FOR EACH ZONE.

(4) POINT SHALL BE ADJUSTABLE.

DUCTLESS SPLIT SYSTEM SEQUENCE OF OPERATIONS

CENTRAL CONTROLLER BAS INTERFACE

FURNISH AND INSTALL INTESIS BACNET / IP AND MS / TP INTERFACE. INTERFACE TO EXISTING DELTA CONTROLS BUILDING AUTOMATION SYSTEM.

OPERATING MODES

THE UNIT SHALL BE IN UNOCCUPIED MODE FOR ALL PERIODS NOT INCLUDED IN THE OCCUPIED HOURS OF OPERATION OR AS SENSED BY THE ZONE OCCUPANCY SENSOR.

THE UNIT SHALL BE IN OCCUPIED MODE PER THE PROJECT DESIGN CONDITIONS SCHEDULE SHOWN ON THE CONTROL DRAWINGS OR AS SENSED BY THE ZONE OCCUPANCY SENSOR.

SAFETIES, OVERRIDES, AND INTERLOCKS

LEAK DETECTION INTERLOCK (FCU-CND):

THE INDOOR UNIT SHALL AUTOMATICALLY BE DISABLED UPON DETECTION OF WATER IN THE OVERFLOW DRAIN PAN.

MONITORING, MANAGEMENT, AND ALARMS

THE VRF OUTDOOR UNITS (CU), INDOOR UNITS (FCU) ARE FURNISHED WITH INTEGRATED FACTORY DIGITAL CONTROLS (DDC) SYSTEM WITH A INTERNET BASED MONITORING AND MANAGEMENT SOFTWARE AND A BUILDING AUTOMATION SYSTEM (BAS) INTERFACE PROTOCOL DEVICE BASED ON BACNET ETL ALLOWING REMOTE MONITORING FROM A THIRD PARTY BAS CONTROL SYSTEM. THE VRF SYSTEM SHALL BE CONTROLLED, SCHEDULED AND MONITORED THROUGH THE FACTORY INTEGRATED DDC SYSTEM. EQUIPMENT AND CONTROL DEVICES NOT FURNISHED WITH THE VRF SYSTEM SHALL BE CONTROLLED, SCHEDULED AND MONITORED THROUGH THE THIRD PARTY BAS SYSTEM IN COMPLIANCE WITH THE SPECIFICATIONS AND SHOWN ON IN THE DRAWINGS.

VRF INTEGRATED FACTORY CONTROLS MONITORING

MONITORING OF INDIVIDUAL SYSTEM COMPONENT ALARMS AND DIAGNOSTICS SHALL BE PROVIDED BY THE VRF SYSTEM CONTROL SYSTEM.

BAS INTERFACE MONITORING

A COMMON ALARM WILL BE GRAPHICALLY DISPLAYED AT THE BAS SYSTEM WORK STATION.

COMPONENT CONDENSING UNIT

OUTDOOR CONDENSING UNIT THE CONDENSING UNIT SHALL OPERATE SUBJECT TO THE INTEGRATED FACTORY DIGITAL CONTROLS (DDC) SYSTEM.

INDOOR FAN COIL UNIT

THE FAN COIL UNIT SHALL OPERATE SUBJECT TO THE INTEGRATED FACTORY DIGITAL CONTROLS (DDC) SYSTEM.

THE UNIT FILTERS SHALL BE MONITORED FOR PREVENTATIVE MAINTENANCE AND DIAGNOSTIC PURPOSES.

THE CONTROLLER SHALL MONITOR THE FAN RUNTIME TO PROVIDE MAINTENANCE REMINDER AT 50% OF FILTER ELAPSED TIME (1100 HOURS) AND AN ALARM AT 100% ELAPSED TIME (2200 HOURS).

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25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 23152

WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

SHEET NO: 5 OF 7

JOB NO. **22-47B**

SHEET TITLE:

PROJ. MGR.:

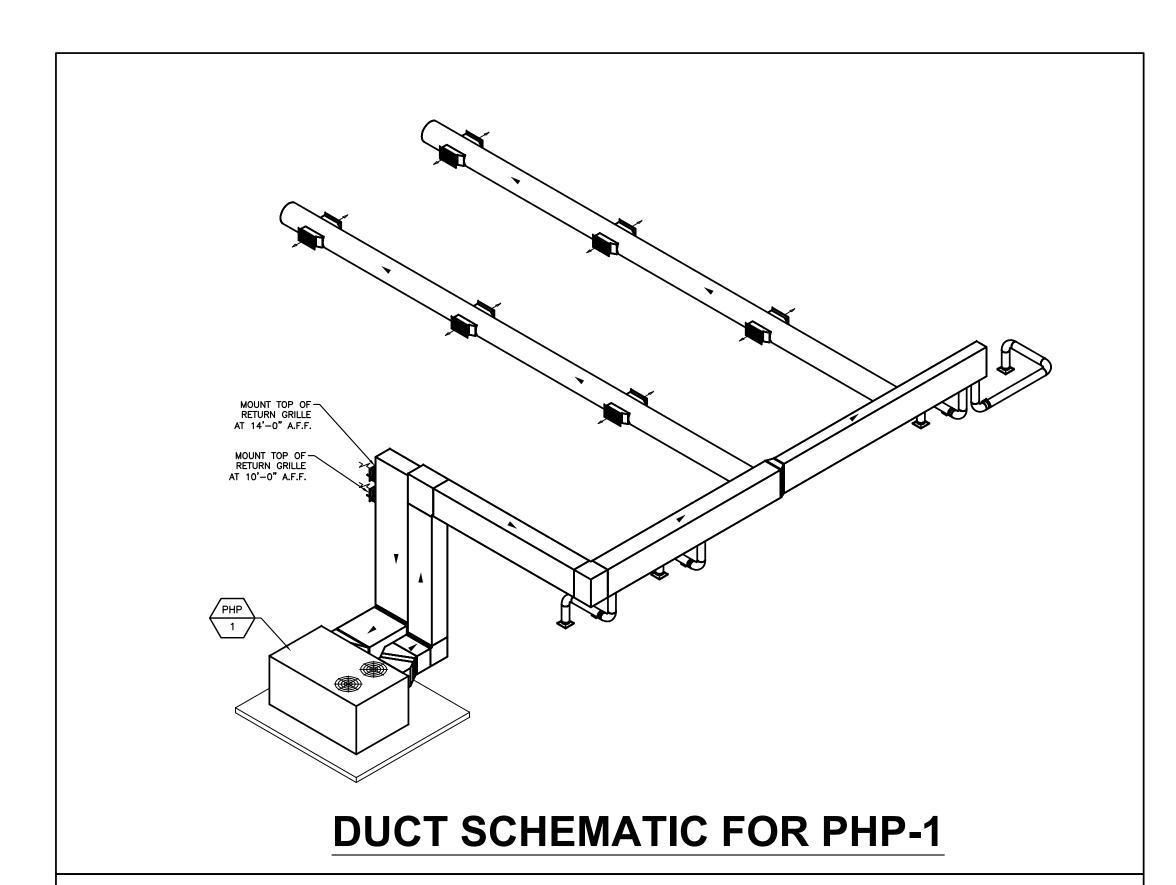
REVISIONS

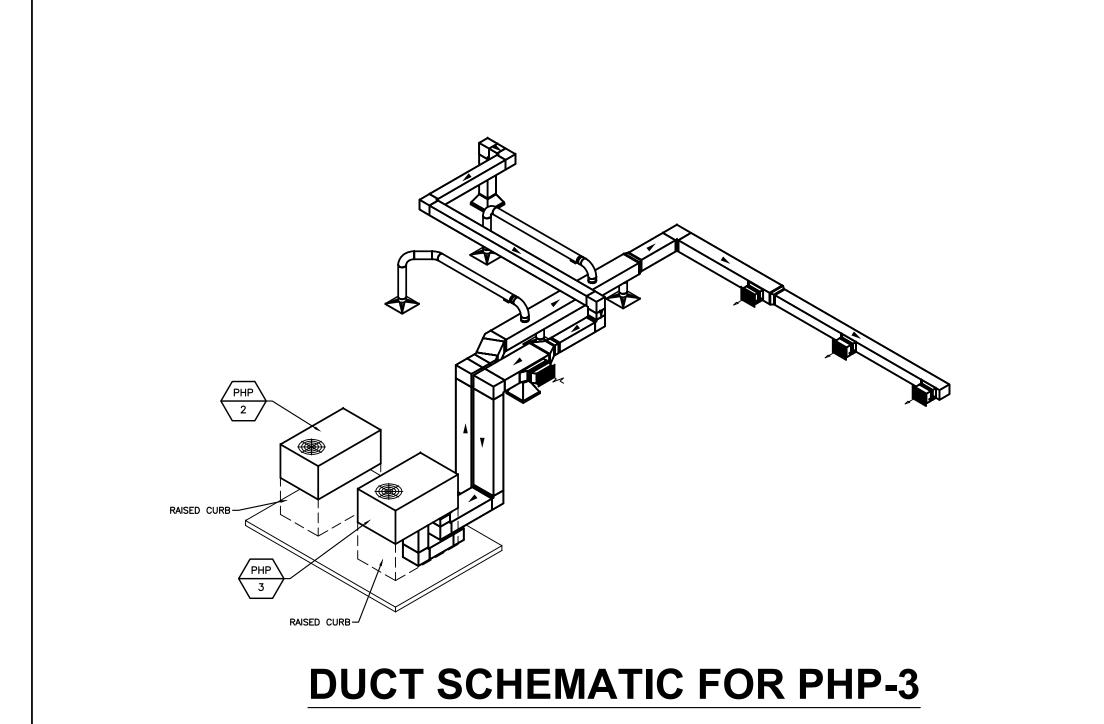
DATE: NOVEMBER 3, 2023

HVAC DETAILS

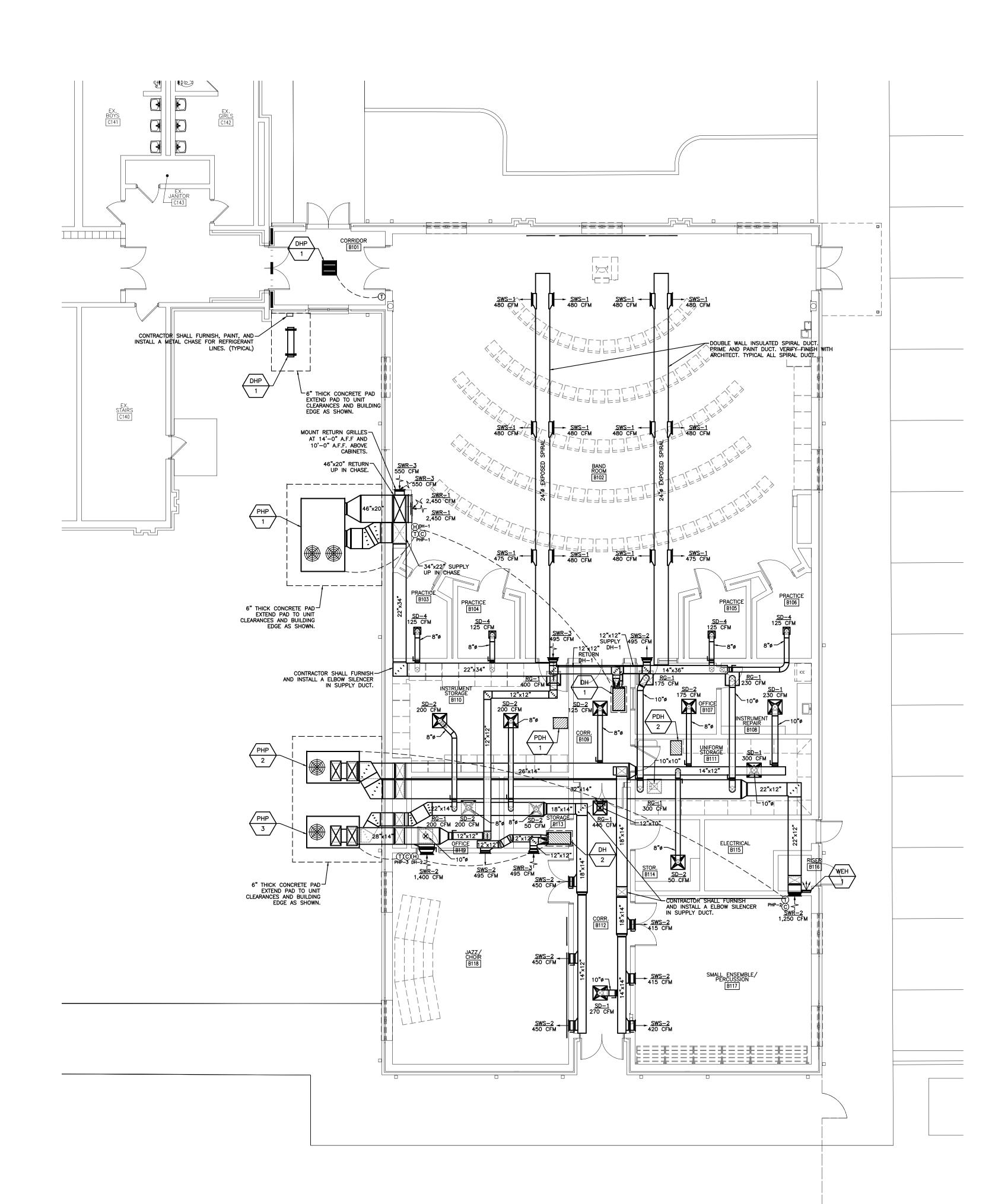
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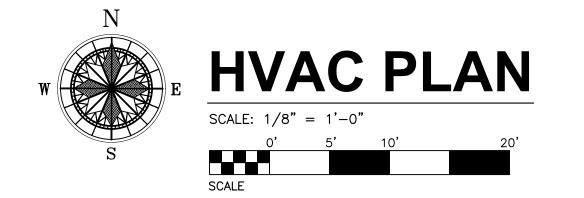
HVAC DETAILS





		DII	FFU	SER S	CHED	UL	E
TAG	Size	Neck Size	Quantity	Manufacturer	Model Number	Туре	Notes
RG-1	24"X24"	23X23	6	TITUS	8RF	RETURN	20"X20"X1" FILTER
SD-1	24"X24"	10''ø	3	TITUS	TDC	SUPPLY	
SD-2	24"X24"	8''ø	7	TITUS	TDC	SUPPLY	
SD-4	12"X12"	8''ø	4	TITUS	TDC	SUPPLY	
SWR-1	46"X24"	46X24	2	TITUS	33RL	RETURN	GRILLE SILENCER
SWR-2	30"X18"	30X18	2	TITUS	33RL	RETURN	GRILLE SILENCER
SWR-3	18"X12"	18X12	4	TITUS	33RL	RETURN	GRILLE SILENCER
SWS-1	24"X10"	24X10	12	TITUS	S300FL	SUPPLY	
SWS-2	16"X12"	16X12	8	TITUS	272RL	SUPPLY	
			48				







REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

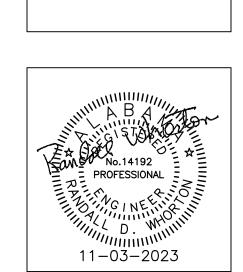
RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

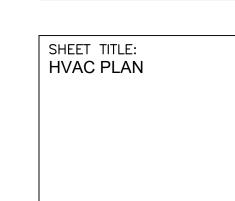
WHORTON ENGINEERING PROJECT NO. 23152

LATHAN BRYANT - CALMA

NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOON
1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALAB,
JACKSONVILLE CITY SCHOOLS





PROJ.	MGR.:		RD\
DRAWI	N:		МС
DATE:	NOVEMBER	3,	202
REVIS	IONS		
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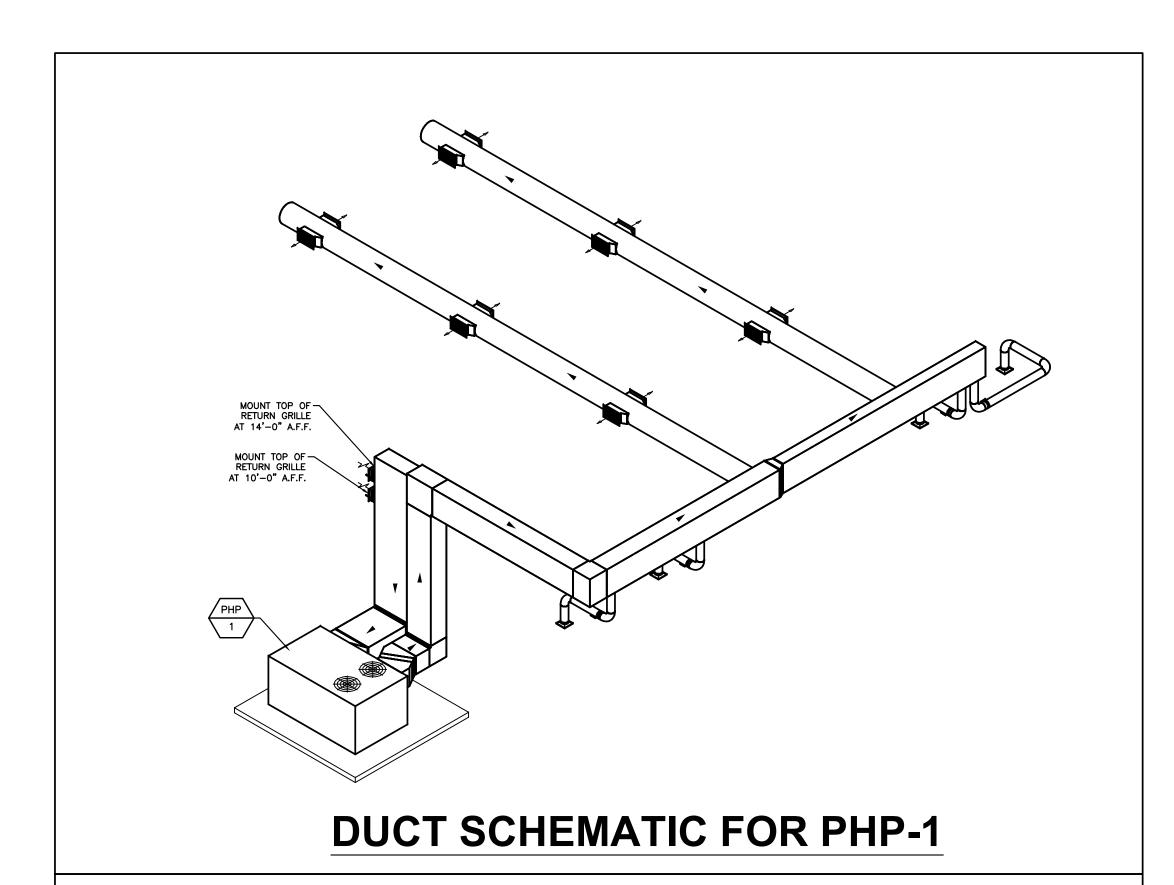
JOB NO. 22-47B

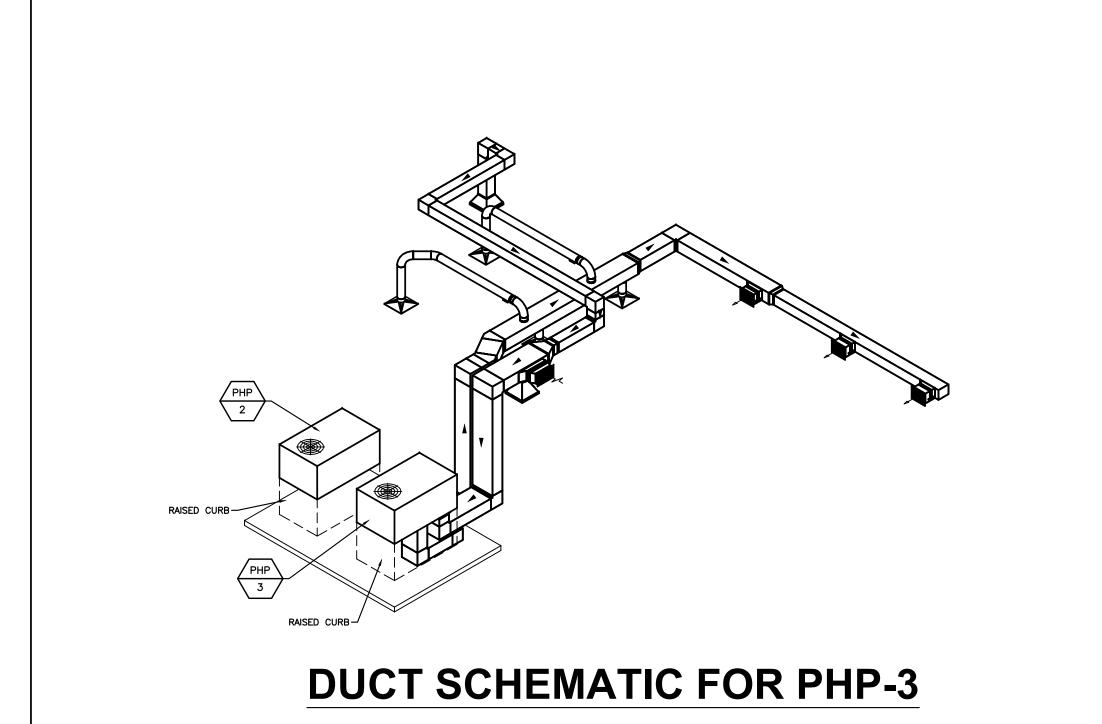
SHEET NO:

M3.1

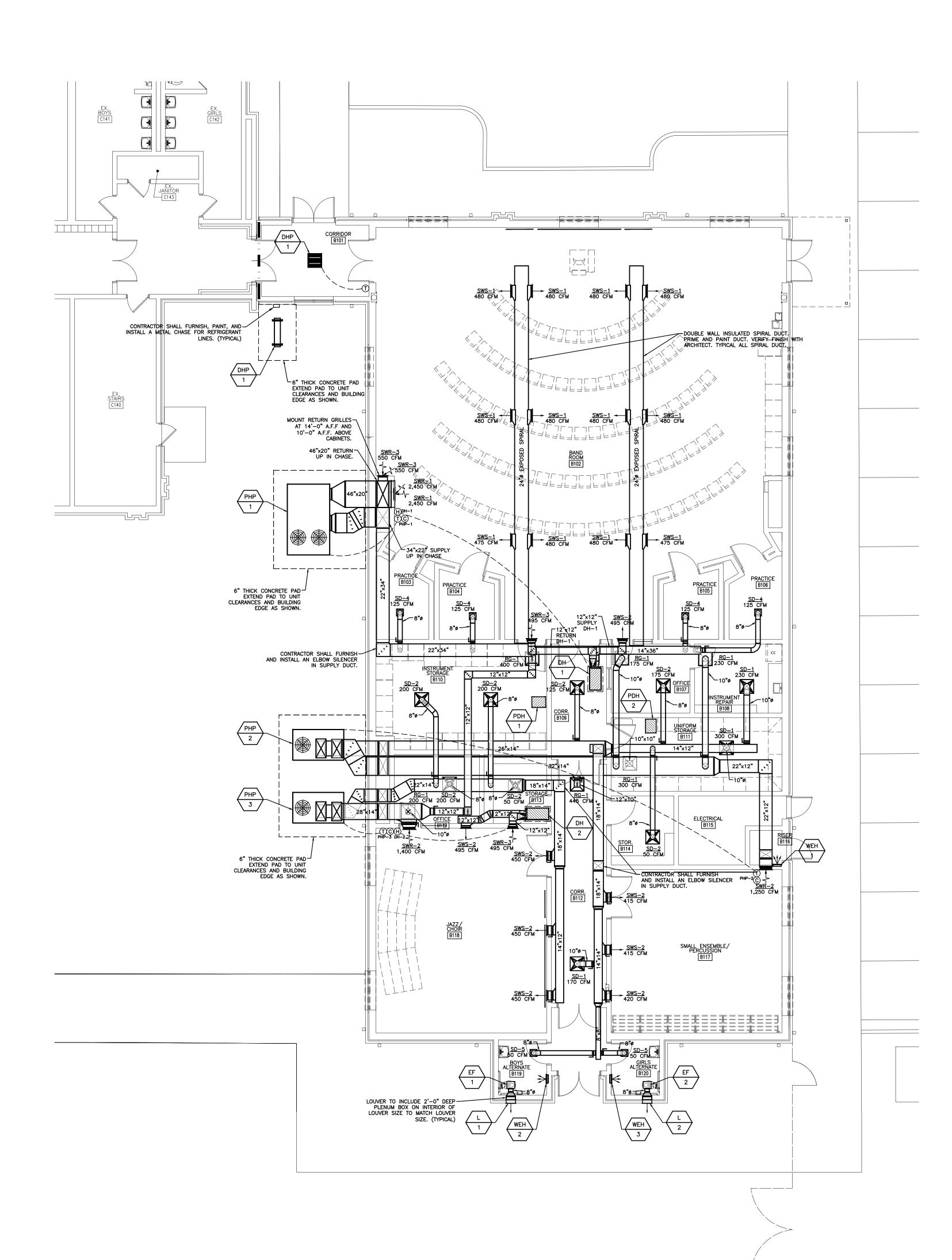
6 OF 7

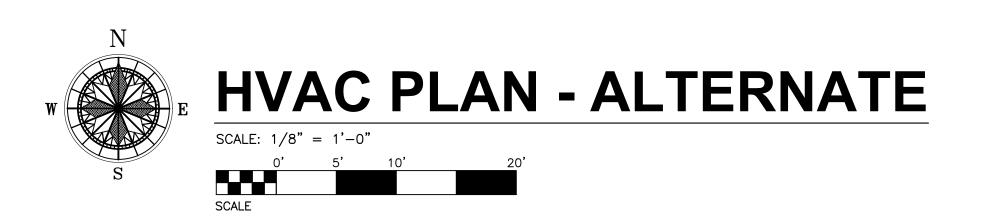
0 1" 2"





Δ	ΙTΙ	FRNA	ATF	DIFFL	ISFR S	CI	HEDULE
TAG	Size	Neck Size	Quantity	Manufacturer	Model Number		
RG-1	24"X24"	23X23	6	TITUS	8RF	RETURN	20"X20"X1" FILTER
SD-1	24"X24"	10''ø	3	TITUS	TDC	SUPPLY	
SD-2	24"X24"	8''ø	7	TITUS	TDC	SUPPLY	
SD-4	12"X12"	8''ø	4	TITUS	TDC	SUPPLY	
SD-5	12"X12"	8''ø	2	TITUS	TDC-AA	SUPPLY	ALUMINUM
SWR-1	46"X24"	46X24	2	TITUS	33RL	RETURN	GRILLE SILENCER
SWR-2	30"X18"	30X18	2	TITUS	33RL	RETURN	GRILLE SILENCER
SWR-3	18"X12"	18X12	4	TITUS	33RL	RETURN	GRILLE SILENCER
SWS-1	24"X10"	24X10	12	TITUS	S300FL	SUPPLY	
SWS-2	16"X12"	16X12	8	TITUS	272RL	SUPPLY	
			50				







REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

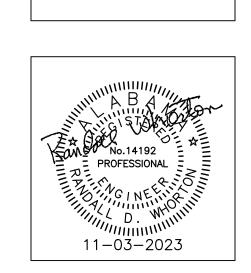
WHORTON ENGINEERING PROJECT NO. 23152

LATHAN
ARCHITECTS
LATHAN - BRYANT - CALMA

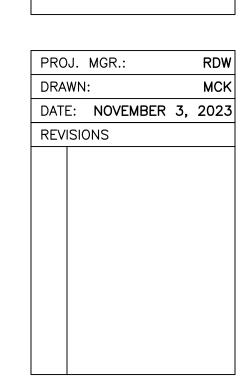
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36269



SHEET TITLE:
HVAC PLAN ALTERNATE



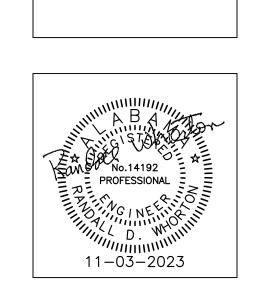
JOB NO. 22-47B

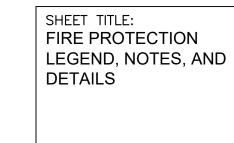
SHEET NO:

M3.2

7 OF 7

0 1" 2"





PROJ.	MGR.:		RDW
DRAW	N:		CBO
DATE:	NOVEMBER	3,	2023
REVIS	IONS		

JOB NO. **22-47B SP1.1** 1 OF 3

FIRE SPRINKLER SYSTEM NOTES

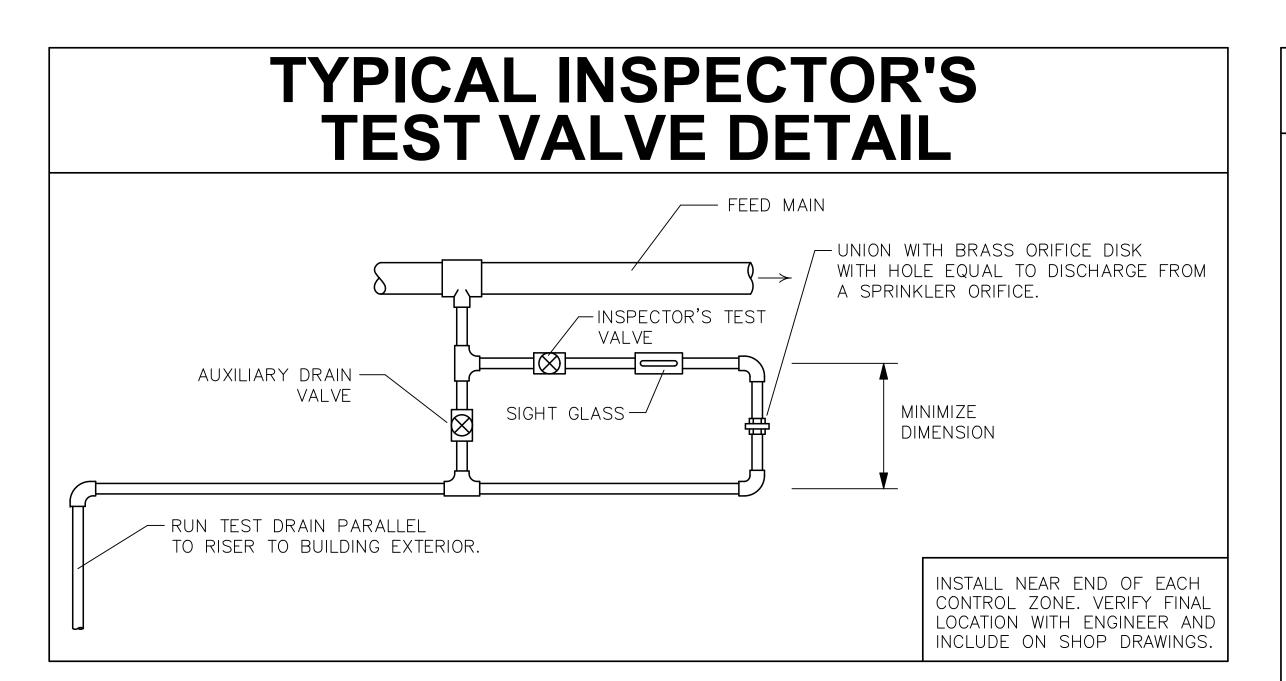
- THE FIRE PROTECTION SYSTEM IS SHOWN IN SCHEMATIC FORM ONLY. THE SUCCESSFUL FIRE PROTECTION VENDOR SHALL LOCATE AND SIZE ALL SPRINKLER HEADS, FIRE DEPARTMENT CONNECTIONS, STANDPIPE SYSTEMS, PIPING, ETC. IN COMPLETE ACCORDANCE WITH NFPA 13 AND THE 2015 INTERNATIONAL BUILDING CODE AND LOCAL REQUIREMENTS.
- SYSTEM DESIGN TO BE IN ACCORDANCE WITH WRITTEN SPECIFICATIONS. ALL HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.
- INSTALLATIONS. FAILURE TO COORDINATE WORK WILL RESULT IN REWORK AT CONTRACTOR'S EXPENSE. MAINTAIN MINIMUM STAIR WELL EGRESS CLEARANCE.
- INSTALL ALL ABOVE CEILING PIPING BELOW DUCT.
- NSTALL ALL EXPOSED PIPING AS HIGH AS POSSIBLE.
- ROUTE ALL EXPOSED PIPING IN CHASES WHERE POSSIBLE.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC AND ELECTRICAL TRADES, PLUMBING. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC..
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- ALL PIPING SHALL BE CONCEALED INSIDE WALLS AND IN PIPE CHASES OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
- (10) ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- (11) FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING
- (12) ALL WET PIPING TO BE ROUTED BELOW CEILING INSULATION.

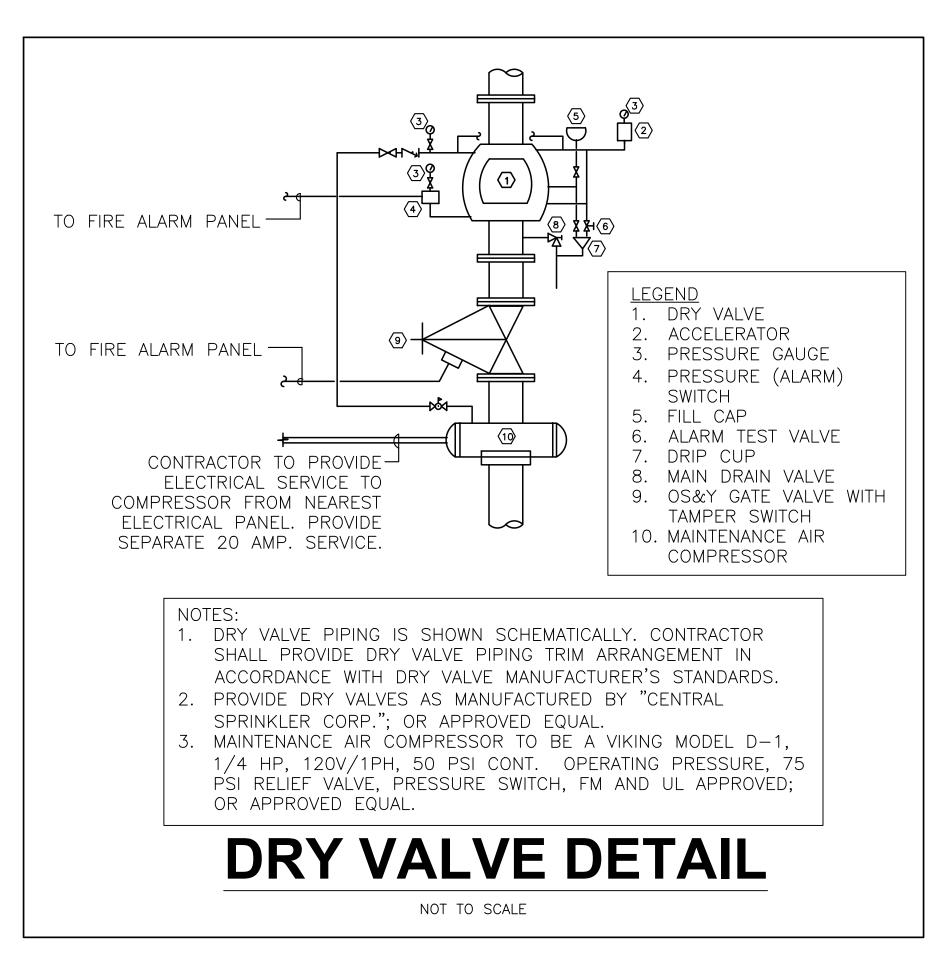
SPRINKLER ZONE DIVISION

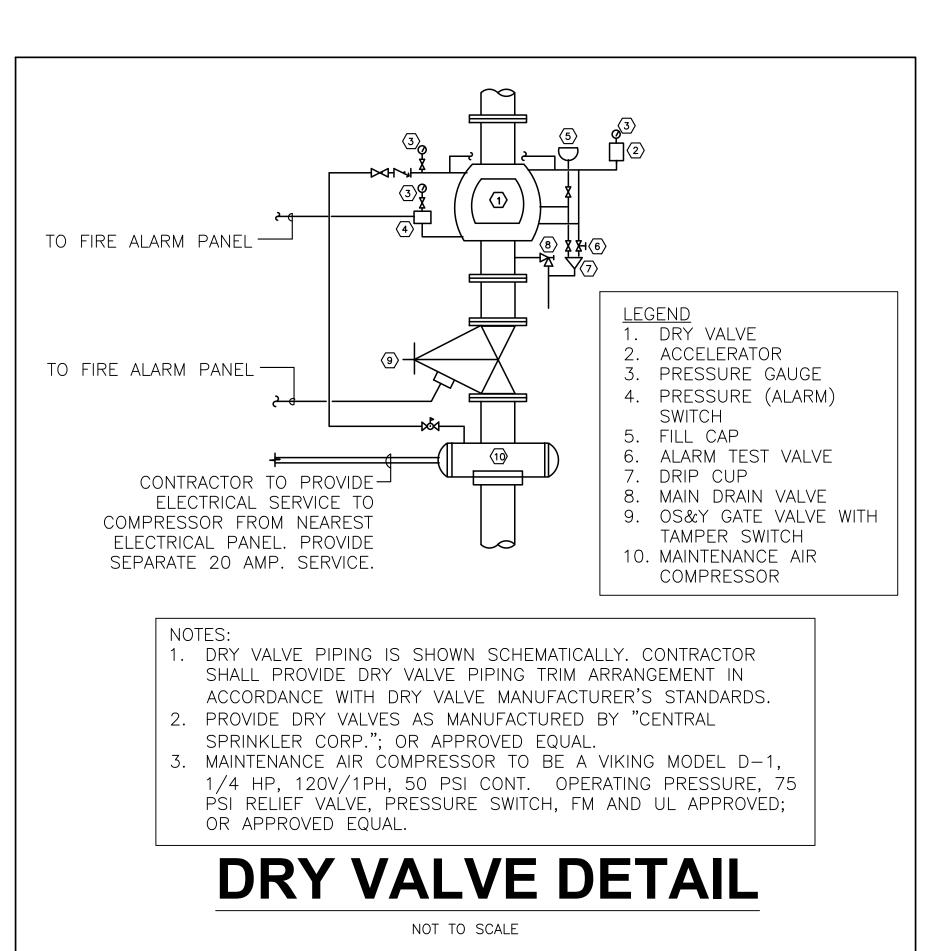
- (13) ALL DRY PIPING TO BE ROUTED IN ATTIC SPACE.
- (14) FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED BY THE ALABAMA STATE FIRE MARSHALL'S OFFICE.

FIRE SPRINKLER LEGEND CONNECT TO EXISTING PIPING FIELD VERIFY LOCATION OF ALL EXISTING PIPING. EXISTING FIRE PROTECTION PIPING FIELD VERIFY EXACT LOCATION. —— FP —— NEW FIRE PROTECTION PIPING FDV FIRE DEPARTMENT VALVE CONTROL VALVE

FIRE	SPRINKLER DRAWING INDEX
SHEET NO.	SHEET TITLE
SP1.1	FIRE SPRINKLER LEGEND, NOTES AND DETAILS
SP2.1	FIRE SPRINKLER PLUMBING PLANS — BASE BID
SP2.2	FIRE SPRINKLER PLUMBING PLANS — ALTERNATE







FIRE PROTECTION LEGEND, NOTES, AND DETAILS

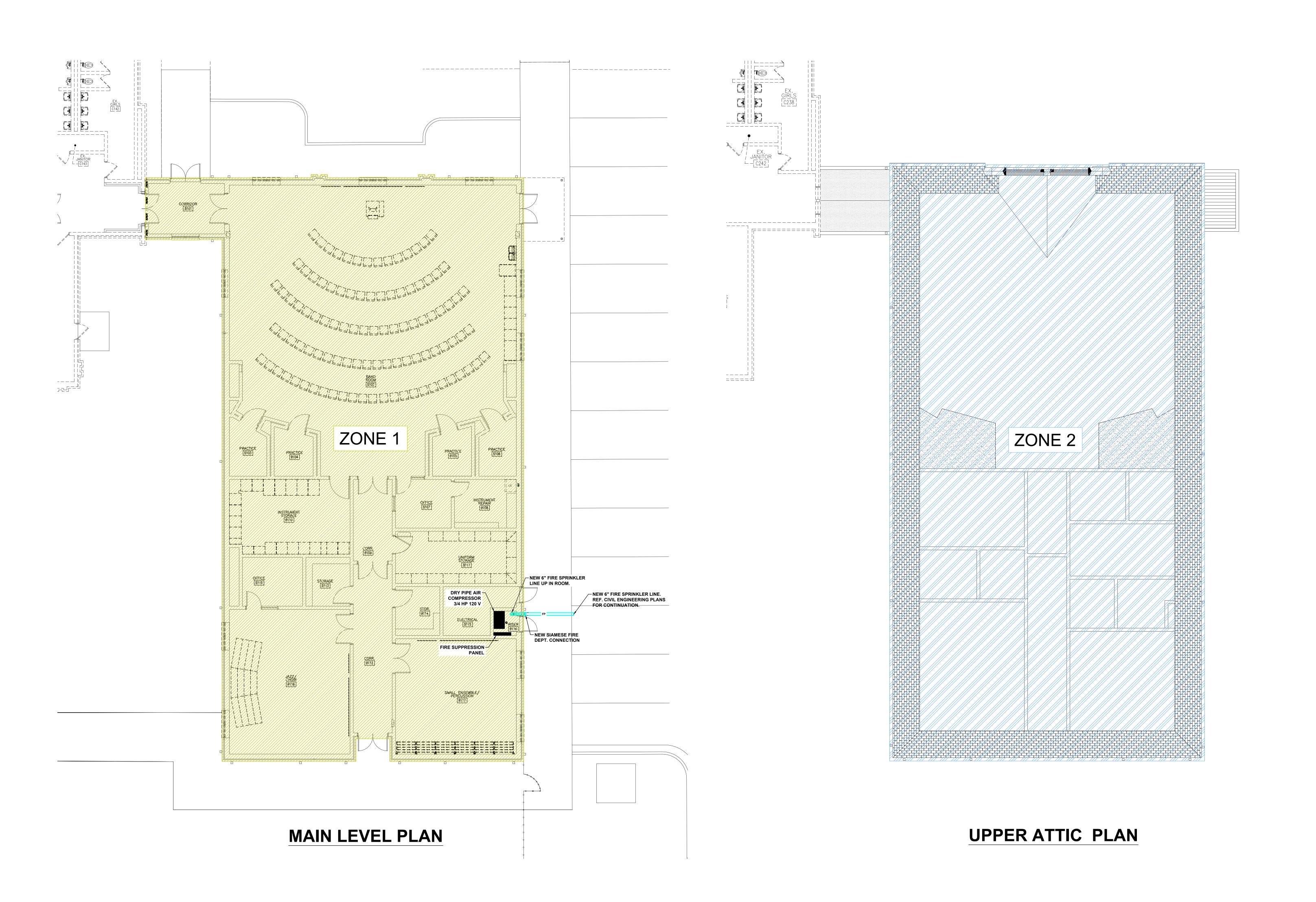
RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205 WHORTON ENGINEERING PROJECT NO. 23152

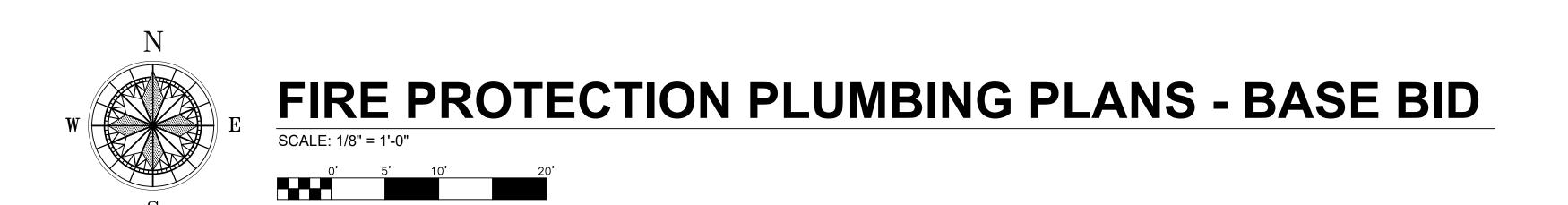
WHORTON ENGINEERING, INC

HVAC - PLUMBING - PROCESS CONTROL

FIRE SERVICE RISER DIAGRAM

THRUST BLOCK





	FIRE SPRINKLER	ZONI	E LEGEN	ND
ZONE NO.	AREA DISCRIPTION	SYSTEM TYPE	ZONE COVERAGE (SQFT)	ZONE HATCH PATTERN
1	BAND ROOM, CLASSROOMS, OFFICES, VARIOUS STORAGE ROOMS, PRACTICE ROOMS, CORRIDORS, ETC.	WET PIPE	7,835	
2	ATTIC SPACE	DRY PIPE	7,881	

FIRE WALL LEGEND	
2 HOUR WALL	

WHORTON ENGI	NEERING, INC.
HVAC — PLUMBING — P	ROCESS CONTROL
RANDALL WHORTON, P.E. PHONE: (256) 820-9897	25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205
WHORTON ENGINEERING PRO	IFCT NO 23152

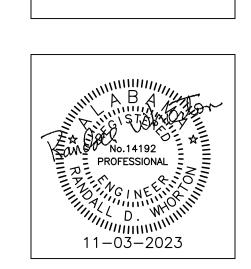


NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE B: NEW BAND ROOM

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 362





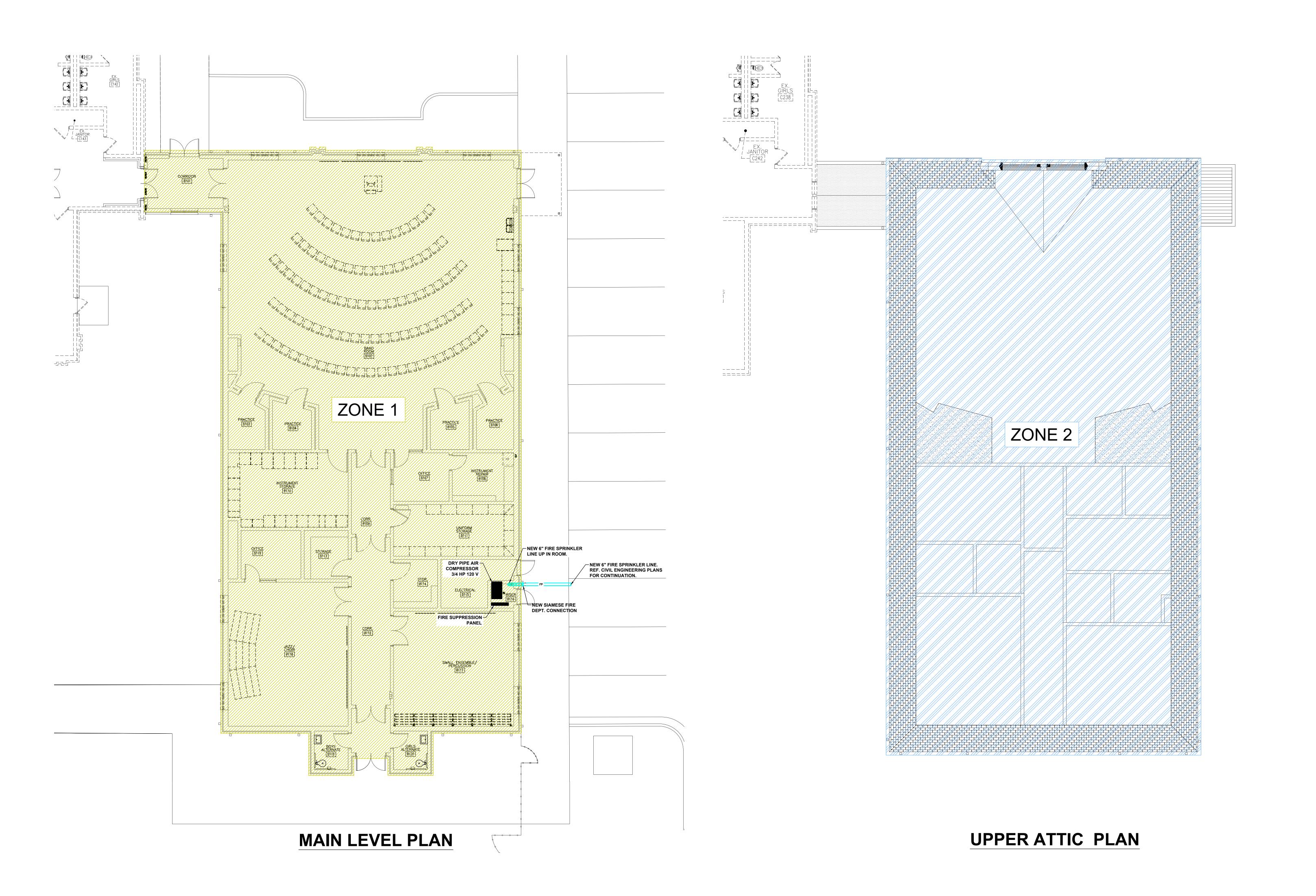
PRO	IJ.	MGR	.:		RDV
DRA	WN	l :			CBO
DATI	E:	NOV	/EMBER	3,	202
REV	ISI	ONS			

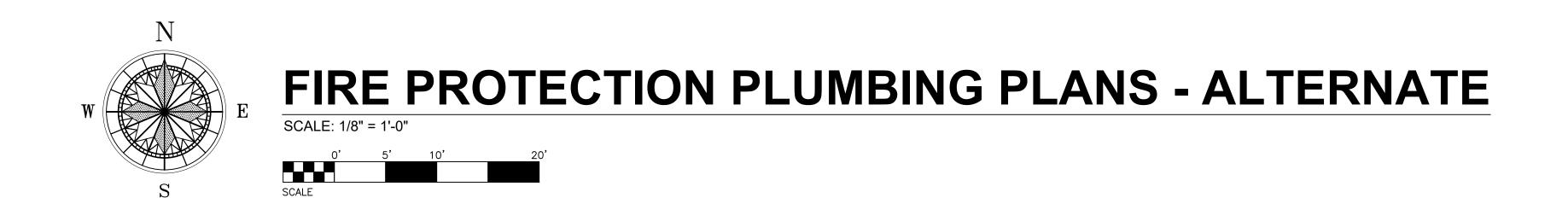
JOB NO. 22-47B

SHEET NO:

SP2.1

2 OF 3
0 1" 2





	FIRE SPRINKLER	ZONI	E LEGEN	ND
ZONE NO.	AREA DISCRIPTION	SYSTEM TYPE	ZONE COVERAGE (SQFT)	ZONE HATCH PATTERN
1	BAND ROOM, CLASSROOMS, OFFICES, VARIOUS STORAGE ROOMS, PRACTICE ROOMS, CORRIDORS, ETC.	WET PIPE	7,835	
2	ATTIC SPACE	DRY PIPE	7,881	

FIRE W	ALL LEGEND
2 HOUR WALL	

WHORTON ENGI	NEERING, INC.
HVAC — PLUMBING — F	PROCESS CONTROL
RANDALL WHORTON, P.E. PHONE: (256) 820–9897	25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205
WHORTON ENGINEERING PRO	JECT NO. 23152

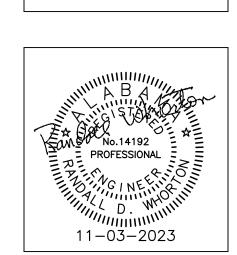
LATHAN ARCHITECTS LATHAN • BRYANT • CALMA

NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 362

JACKSONVILLE CITY SCHOOLS





PROJ.	MGR.:		RDW
DRAWN	l:		CBC
DATE:	NOVEMBER	3,	2023
REVISI	ONS		

JOB NO. 22-47B

SHEET NO:

SP2.2

3 OF 3
0 1" 2"

PLUMBING NOTES

THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.

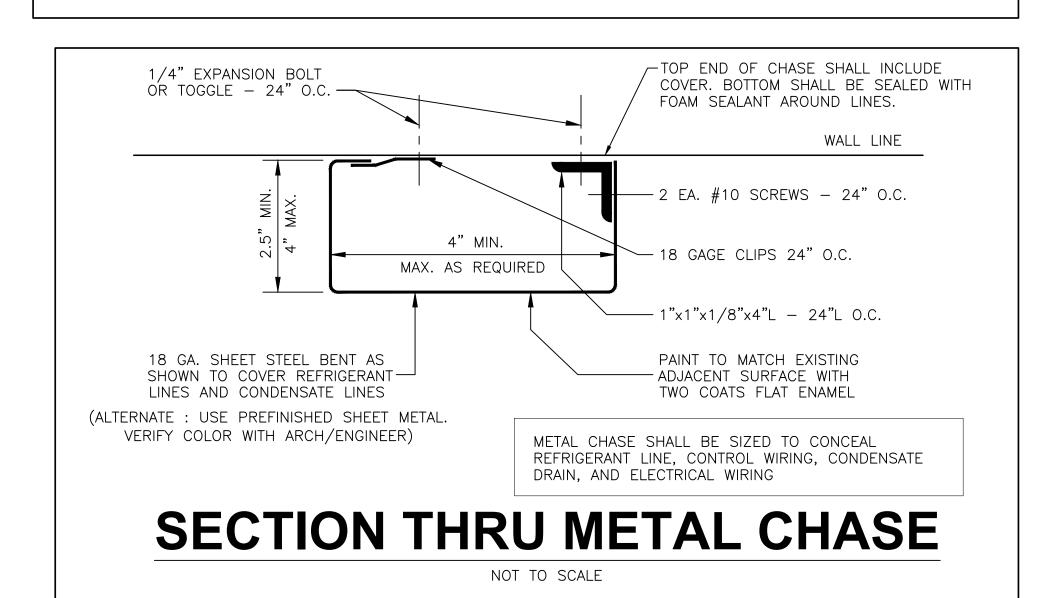
- . COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
- 3. FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
- 4. VERIFY LOCATION OF ALL FIXTURES WITH ARCHITECTURAL PLANS.
- 5. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.
- 6. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- PROVIDE 12"X12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- 8. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
- 9. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS. 10. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL

CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW

- 11. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- 12. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE NOTED.
- 13. ALL PLUMBING COMPONENTS TO BE LEAD-FREE.

PREVENTION DEVICES, REGULATORS, ETC.

- 14. HORIZONTAL DRAINAGE PIPING OF 2-1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT.
- 15. SET FLOOR DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATION AS LISTED BELOW TO PROVIDE PROPER FLOOR SLOPE TO DRAIN:
- 5 FOOT DRAIN RADIUS: 1/2" DEPRESSION 10 FOOT DRAIN RADIUS : 3/4" DEPRESSION 15 FOOT DRAIN RADIUS: 1" DEPRESSION 20 FOOT DRAIN RADIUS : 1-1/4" DEPRESSION
- 25 FOOT DRAIN RADIUS; 1-1/2" DEPRESSION 16. ALL TRAP ARMS, P-TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18. GA. CHROME PLATED.
- 17. ABOVE GROUND DRAINAGE AND VENT PIPING LOCATED WITHIN FIRE RATED WALLS SHALL BE COPPER PIPE IN ACCORDANCE WITH STANDARDS ASTM B42 AND B302 OR CAST IRON PIPE IN ACCORDANCE WITH STANDARDS ASTM A 74; ASTM A 888; CISPI 301. COORDINATE WITH ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATION OF ALL FIRE
- 18. ALL CONDENSATE DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUM, SHALL BE TYPE "L" COPPER. ALL COPPER PIPING MUST BE INSULATED WITH 1/2" ARMAFLEX OR APPROVED EQUAL. PIPING CAN ALSO BE SCHEDULE 40 CPVC. ALL CONDENSATE DRAIN PIPING THAT IS NOT LOCATED WITHIN RETURN AIR PLENUM MAY BE SCHEDULE 40 PVC WITH 1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL). INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH HVAC PLAN FOR REQUIREMENT AND LOCATION OF AIR PLENUM(S).
- 19. INSTALL ANGLE COVER OVER CONDENSATE LINES, SPRINKLER LINES, ETC. THAT CROSS MEZZANINE/MECH ROOM FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.
- 20. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO
- 21. ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.
- 22. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTER EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP.
- 23. CONTRACTOR TO FURNISH AND INSTALL ANTI-SIPHON VALVE ON EACH WATER HEATER.
- 24. CONTRACTOR SHALL FURNISH AND INSTALL BALL VALVES FOR WATER SHUT-OFF AT FIXTURE GROUPINGS.
- 25. ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.



CODES AND STANDARDS

- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FIRE CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2021 EXISTING BUILDING CODE

	PLUMBING SPECIALITY SCHEDULE										
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER	NOTES	1
FD-1	FLOOR DRAIN	ZURN MODEL NO. ZN-415B OR APPROVED EQUAL	FLOOR	-	4"	2"	_	-	-	5" DIA. NICKEL BRONZE ADJUSTABLE TOP PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD]
HD-1	HUB DRAIN	PROSET MODEL SYSTEM INC. MODEL NO. TG34IP OR APPROVED EQUAL	FLOOR	-	4"	2"	_	-	-	STUB TO 1" A.F.F.] - -
WH-1	WALL HYDRANT	WOODFORD MODEL NO. B65 OR APPROVED EQUAL	WALL	18" TO 24"	_	-	3/4"	_	_	FREEZELESS, ANTI-SIPHON, LOCKING BOX	
WB-1	ICEMAKER WALLBOX	OATEY MODEL NO. 38574 OR APPROVED EQUAL	WALL	36" A.F.F.	_	_	1/2"	_	_	1/4 TURN BRASS BALL VALVE — COPPER SWEAT — STANDARD PACK WITH 6' STAINLESS STEEL HOSE] -

VARIES

VARIES

6" DIA. ADJUSTABLE NICKEL BRONZE TOP

EQUALS BY ELJER, KOHLER, TOTO, AND AMERICAN STANDARD WILL BE ACCEPTED.

ZURN MODEL NO. ZN-1400-2

OR APPROVED EQUAL

ZURN SERIES 1700

OR APPROVED EQUAL

FLOOR

F.C.O.

W.H.A.

FLOOR CLEANOUT

WATER

HAMMER

ARRESTOR

	ELECTRIC WATER HEATER SCHEDULE										
MARK	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	SIZE	VOLTAGE	WATTS SIZE	DIMENSIONS	C.W. INLET	H.W. INLET	NOTES		
IWH-1	IN-LINE WATER HEATER	CHRONOMITE MODEL NO. SR-40 OR APPROVED EQUAL	-	208 1 PH	8320	-	1/2"	1/2"			
IWH-2 (ALT.)	IN-LINE WATER HEATER	CHRONOMITE MODEL NO. SR-40 OR APPROVED EQUAL	-	208 1 PH	8320	_	1/2"	1/2"			
IWH-3 (ALT.)	IN-LINE WATER HEATER	CHRONOMITE MODEL NO. SR-40 OR APPROVED EQUAL	-	208 1 PH	8320	_	1/2"	1/2"			
EQUA	LS BY STATE, RHEEM	M, OR A. O. SMITH WILL BE ACCEPTED									

	ELECTRIC WATER COOLER SCHEDULE										
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	NOTES			
EWC-1	ELECTRIC WATER COOLER, ADA SPLIT LEVEL	ELKAY MODEL NO. EZSTL8WSSK OR APPROVED EQUAL	WALL	34-1/2" TO NOZ. CENTER	1-1/4"	1-1/4"	1/2"	ADA MOUNTED AT 34.5" AFF TO NOZZLE CENTERLINE, STAINLESS STEEL W/TRIM BEZEL, WITH BOTTLE FILLING STATION, FILTER, MOUNTING KIT			

	PLUMBING EQUIPMENT SCHEDULE											
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES			
BS-1	BAND ROOM SINK	ELKAY MODEL NO. DLRQ312210 OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LK-335 STRAINER, DELTA 100LF-HDF (1.5 GPM) FAUCET, SUPPLIES WITH STOPS, P-TRAP WITH CLEANOUT			
WC-1A (ALT.)	WATER CLOSET FLUSH VALVE ADA	ZURN MODEL NO. Z5665 OR APPROVED EQUAL	FLOOR	16-1/8" TO RIM	4"	2"	1 1/4"	_	WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS. HCP. 12" ROUGH—IN, ZURN Z6000AV—YJ FLUSH VALVE			
L-1A (ALT.)	LAVATORY, ADA 20"X18"	ZURN MODEL NO. Z5344 OR APPROVED EQUAL	WALL	34" TO LIP	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL 501-DST FAUCET, W/ 0.5 GPM AERATOR; P-TRAP W/ CLEANOUT; CONCEALED ARM CARRIER; SUPPLIES W/ STOPS			
APPROV	ED EQUALS : REFERENC	CE SPECIFICATIONS										

		F	PLUMBING	G LEG	END		
—— ss ——	SANITARY SEWER	xcw	EXISTING COLD WATER		BUTTERFLY VALVE	<u>\$</u>	
—— CD ——	CONDENSATE DRAIN		FLOOR DRAIN		THREE WAY VALVE	- └ VTR	VENT THRU ROOF
——— CW ———	COLD WATER		HUB DRAIN	OII	RISER DOWN (ELBOW)	•	CONNECT TO EXISTING
110 *	110° HOT WATER	RT	RUNNING TRAP		RISER UP (ELBOW)	AAV	AIR ADMITTANCE VALVE (SHOUSS APPROVED)
———140°———	140° HOT WATER	SV D	BALL VALVE	J	90° ELBOW		
v	VENT		CHECK VALVE		TEE		

PLUMBING DRAWING INDEX					
SHEET NO.	SHEET TITLE				
P1.1	PLUMBING SCHEDULES, LEGEND, NOTES, AND DETAILS				
P2.1	WASTE & CONDENSATE PLUMBING PLAN — BASE BID				
P2.2	WASTE PLUMBING RISER DIAGRAM — BASE BID				
P2.3	WASTE & CONDENSATE PLUMBING PLAN — ALTERNATE				
P2.4	WASTE PLUMBING RISER DIAGRAM — ALTERNATE				
P3.1	WATER PLUMBING PLAN — BASE BID				
P3.2	WATER PLUMBING RISER DIAGRAM — BASE BID				
P3.3	WATER PLUMBING PLAN — ALTERNATE				
P3.4	WATER PLUMBING RISER DIAGRAM — ALTERNATE				

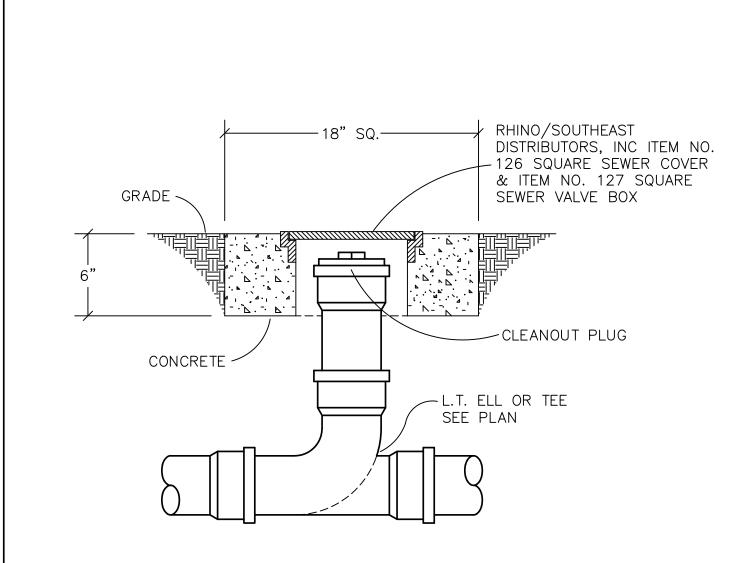
PVC PIPE HANGER SPACING GUIDE

PVC P	PVC PIPE SUPPORTS - SCHEDULE 40 MAXIMUM SUPPORT SPACING (FEET)					
NPS	OPERATING TEMPERATURE (°F)					
(INCHES)	60	100	140			
1/2	4.5	4	2.5			
3/4	5	4	2.5			
1	5.5	4.5	2.5			
1-1/4	5.5	5	3			
1-1/2	6	5	3			
2	6	5	3			
3	7	6	3.5			
4	7.5	6.5	4			
6	8.5	7.5	4.5			
8	9	8	4.5			
D)//O D						

8	9	8	4.5
PVC P	IPE SUPPOR MAXIMUM SUPPORT SI		OULE 80
NPS	OPI	ERATING TEMPERATURE (°F)
(INCHES)	60	100	140
1/2	5	4.5	2.5
3/4	5.5	4.5	2.5
1	6	5	3
1-1/2	6.5	5.5	3.5
2	7	6	3.5
3	8	7	4
4	9	7.5	4.5
6	10	9	5
8	11	9.5	5.5

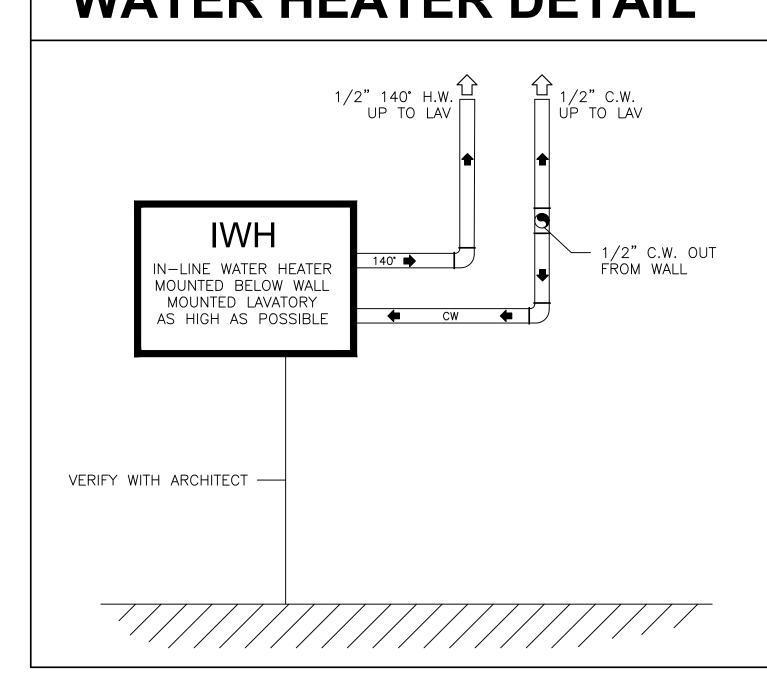
NOTE: PLASTIC PIPE SUPPORTS SHALL BE AS NOTED ABOVE UNLESS MANUFACTURER'S

RECOMMENDATION IS MORE STRINGENT FOR THE APPLICATION.

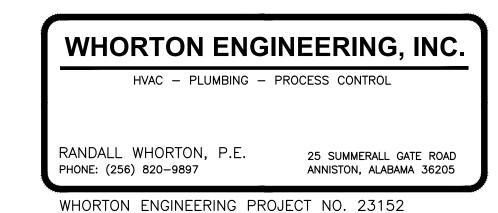


CLEANOUT UP TO GRADE

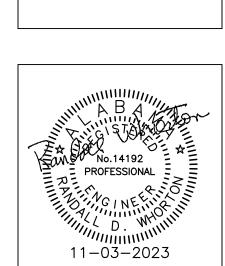
TYPICAL IN-LINE WATER HEATER DETAIL

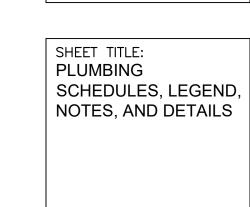


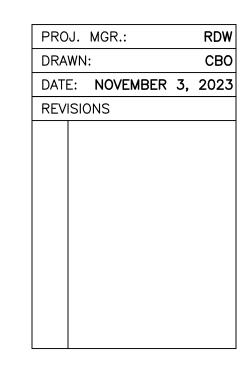
PLUMBING SCHEDULES, LEGEND, NOTES, AND DETAILS



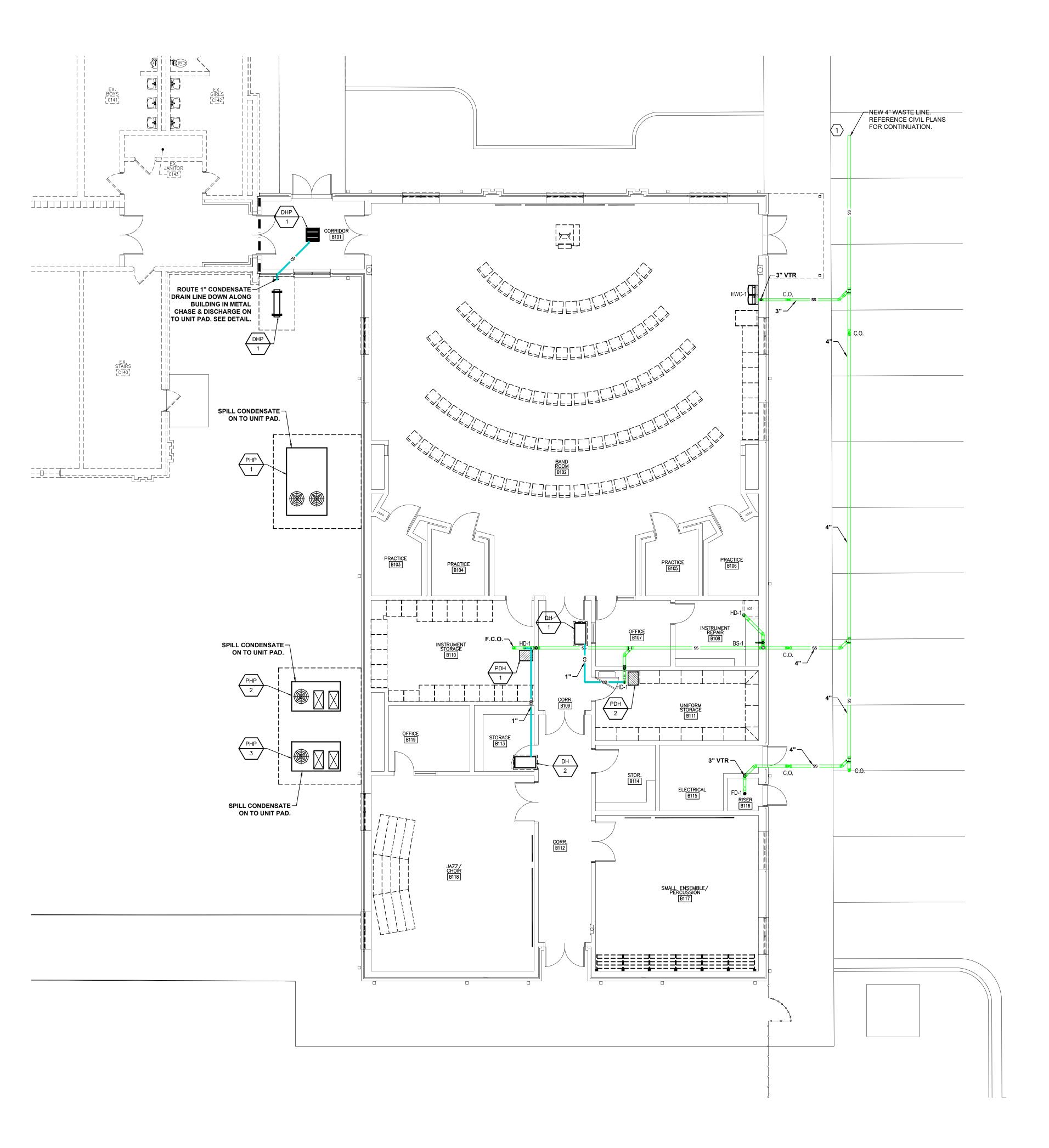








JOB NO. **22-47B** 1 OF 9

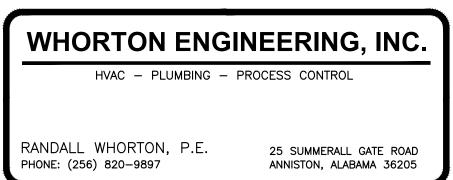


MAIN LEVEL PLAN



MARK NO.	HORIZ. LENGTH FT	RY OUTFALL EST. BFF (BELOW FIN. FLOOR)
(1)	128'	±4.33
– .		INAL OUTFALL WITH CIVIL TO BEGINNING WORK.





WHORTON ENGINEERING PROJECT NO. 23152

P2.1

2 OF 9
0 1"

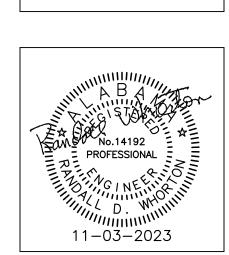
LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

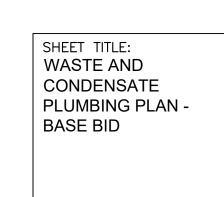
IEW BAND ROOM AND ATHLETIC FACILITIES FOR IACKSONVILLE HIGH SCHOOL

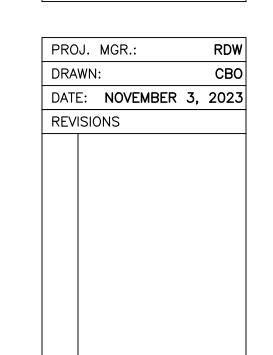
ACKAGE B: NEW BAND ROOM

MOO GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36

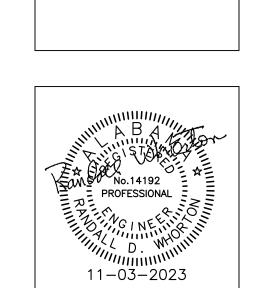
ACKSONVILLE CITY SCHOOLS

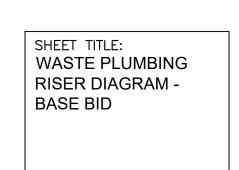


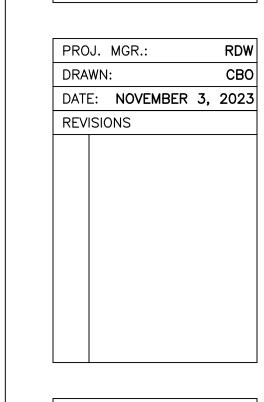




JOB NO. **22-47B**







JOB NO. **22-47B** SHEET NO:

3 OF 9

RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205 PHONE: (256) 820-9897 WHORTON ENGINEERING PROJECT NO. 23152

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

NEW 4" WASTE LINE. — REFERENCE CIVIL PLANS FOR CONTINUATION.

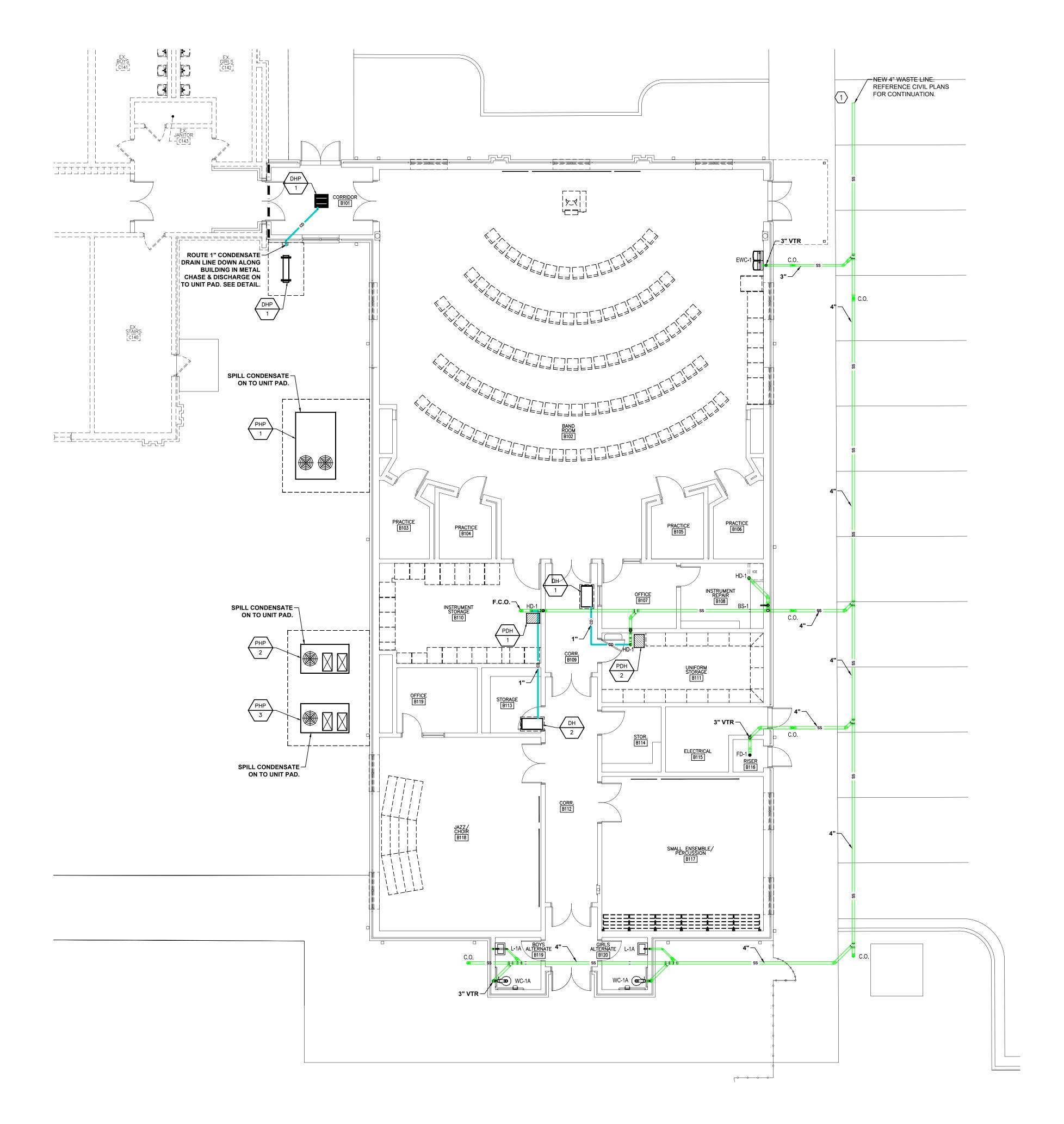
ALL BELOW SLAB WASTE PIPING SHALL BE 2" MINIMUM.

WASTE PLUMBING RISER DIAGRAM - BASE BID

3" VENT – STACK UP TO 3" VTR

ELECTRICAL B115

INSTRUMENT REPAIR **BS-1 HD-1** B108



MAIN LEVEL PLAN



2 HOUR WALL

SANITARY OUTFALL

MARK NO.	HORIZ. LENGTH FT	EST. BFF (BELOW FIN. FLOOR) FT
$\boxed{1}$	188'	±4.96
		INAL OUTFALL WITH CIVIL TO BEGINNING WORK.





RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 23152

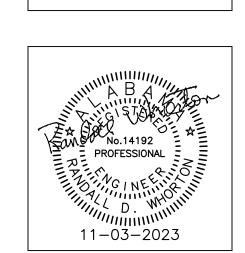
LATHAN ARCHITECTS LATHAN • BRYANT • CALMA

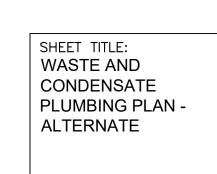
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

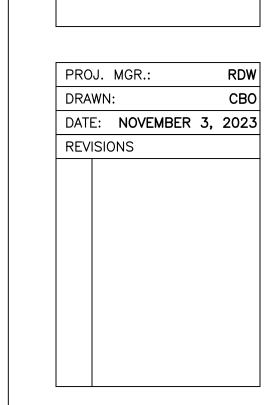
JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 363

JACKSONVILLE CITY SCHOOLS





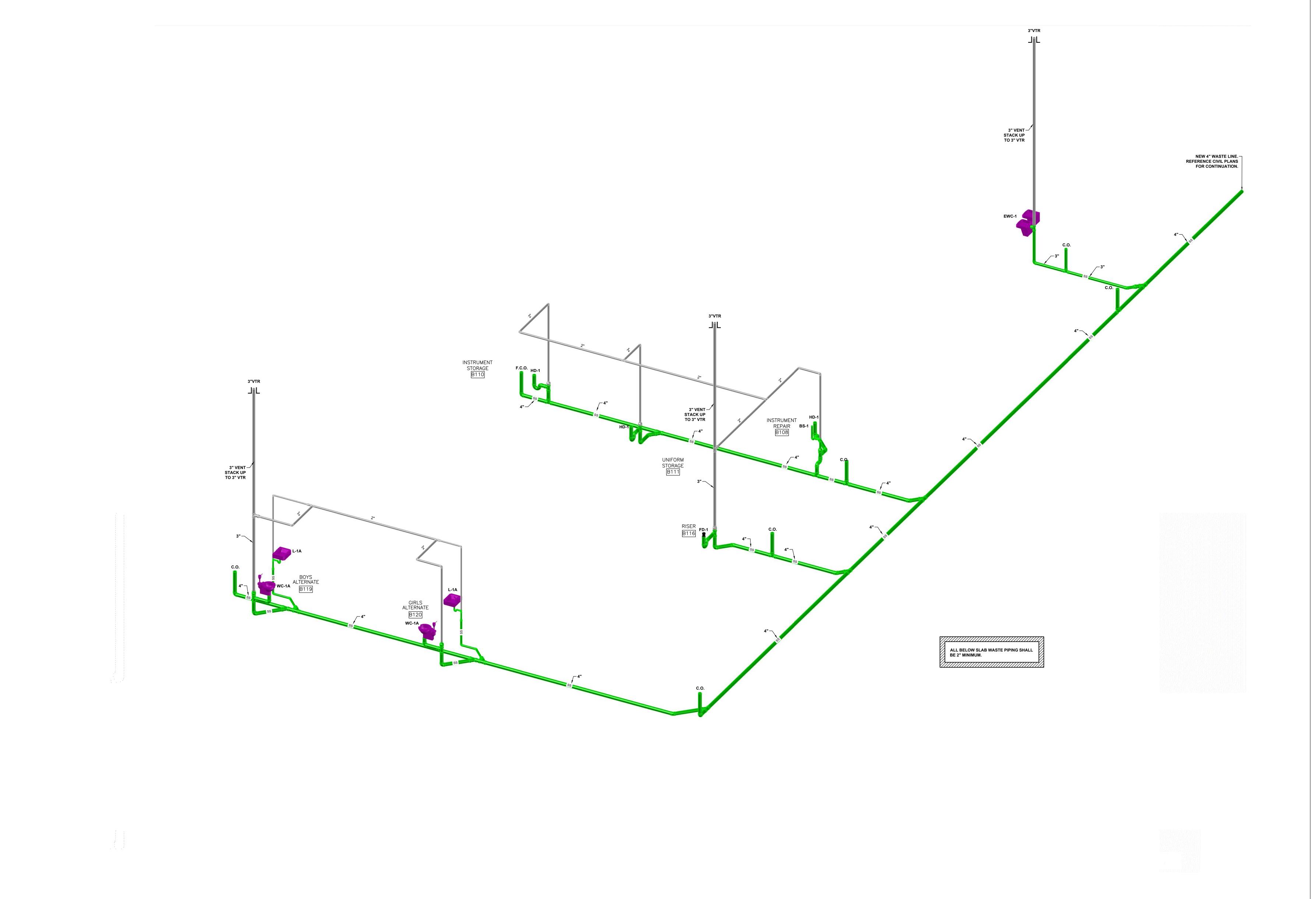


JOB NO. 22-47В

SHEET NO:

P2.3

4 OF 9



WASTE PLUMBING RISER DIAGRAM - ALTERNATE

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

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WHORTON ENGINEERING PROJECT NO. 23152

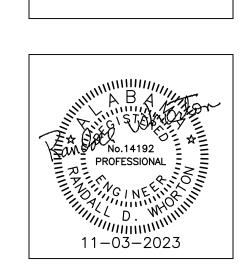
LATHAN
ARCHITECTS
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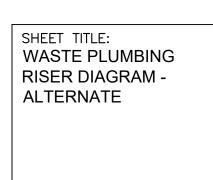
W BAND ROOM AND ATHLETIC FACILITIES FOR

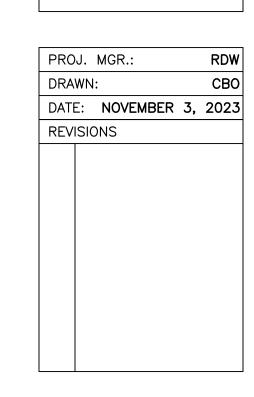
ACKSONVILLE HIGH SCHOOL

CKAGE B: NEW BAND ROOM

O GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265







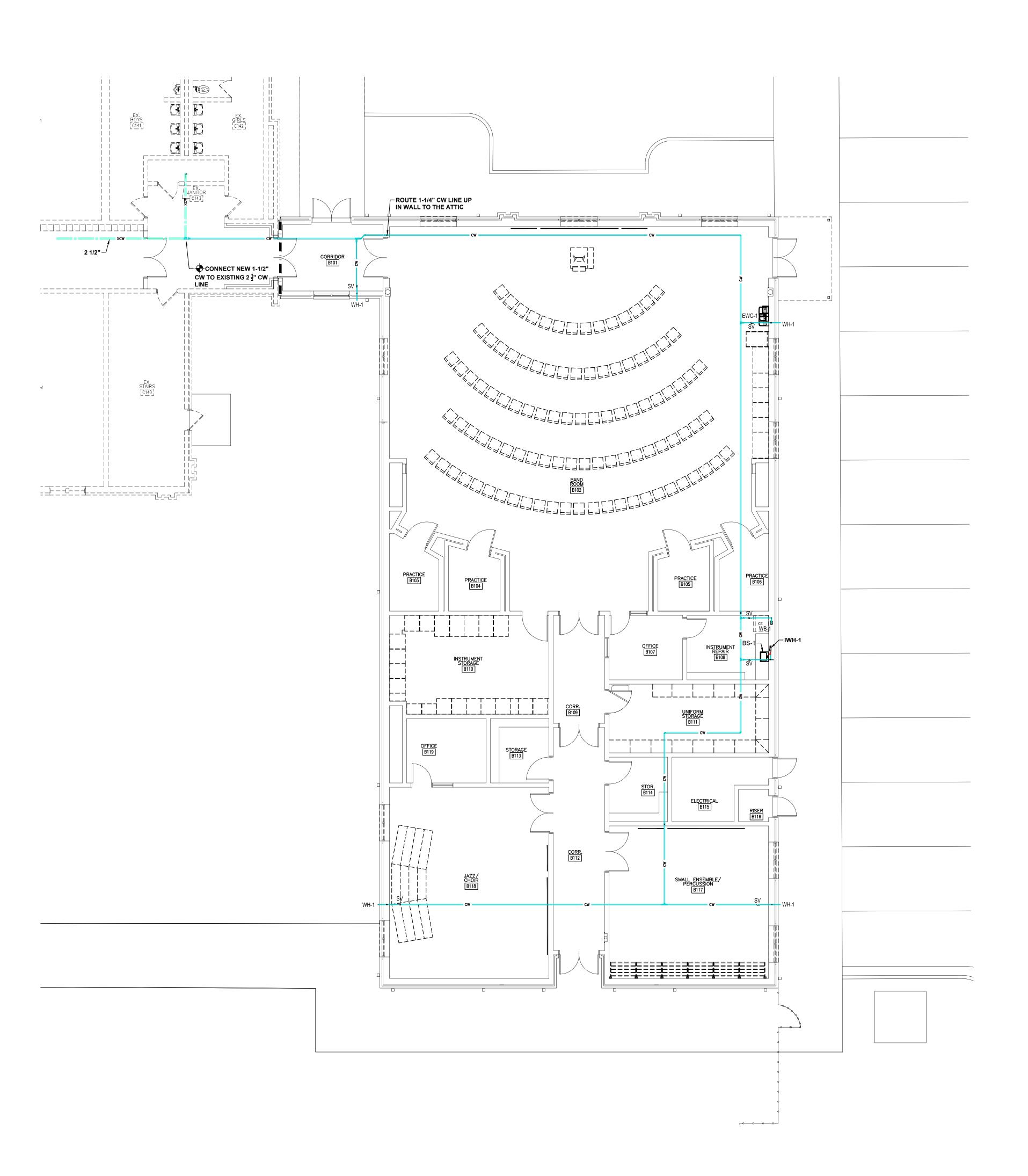
JOB NO. 22-47B

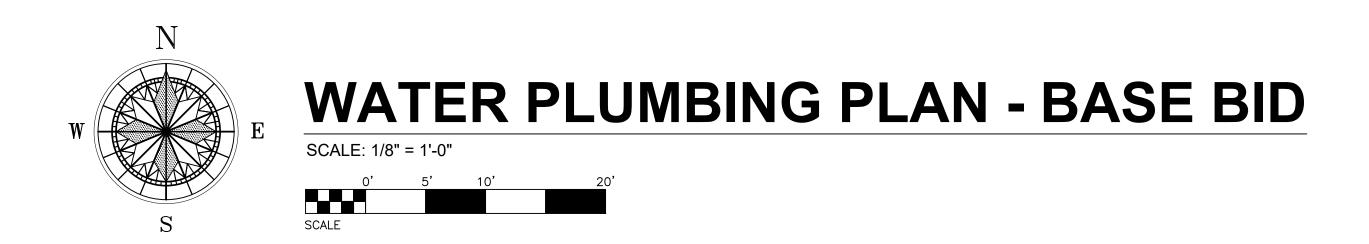
SHEET NO:

P2.4

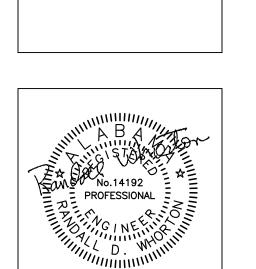
5 OF 9

0 1" 2"









SHEET TITLE: WATER PLUMBING PLAN - BASE BID

PROJ. MGR.: DATE: NOVEMBER 3, 2023 REVISIONS

JOB NO. **22-47B**

FIRE WALL LEGEND

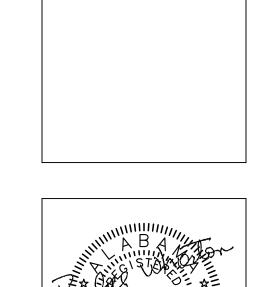
WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

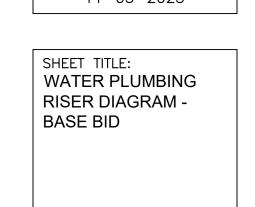
RANDALL WHORTON, P.E. PHONE: (256) 820–9897 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

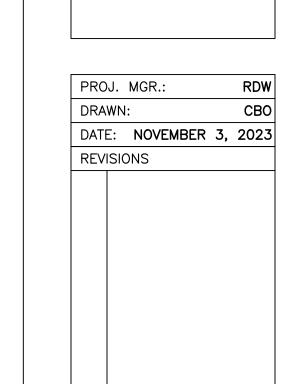
6 OF 9
0 1" 2" WHORTON ENGINEERING PROJECT NO. 23152

WATER PLUMBING RISER DIAGRAM - BASE BID

BAND ROOM AND ATHLETIC FACILITIES FOR CKSONVILLE HIGH SCHOOL AGE B: NEW BAND ROOM GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36; SONVILLE CITY SCHOOLS







JOB NO. 22-47B

SHEET NO:

P3.2

7 OF 9

0 1" 2"

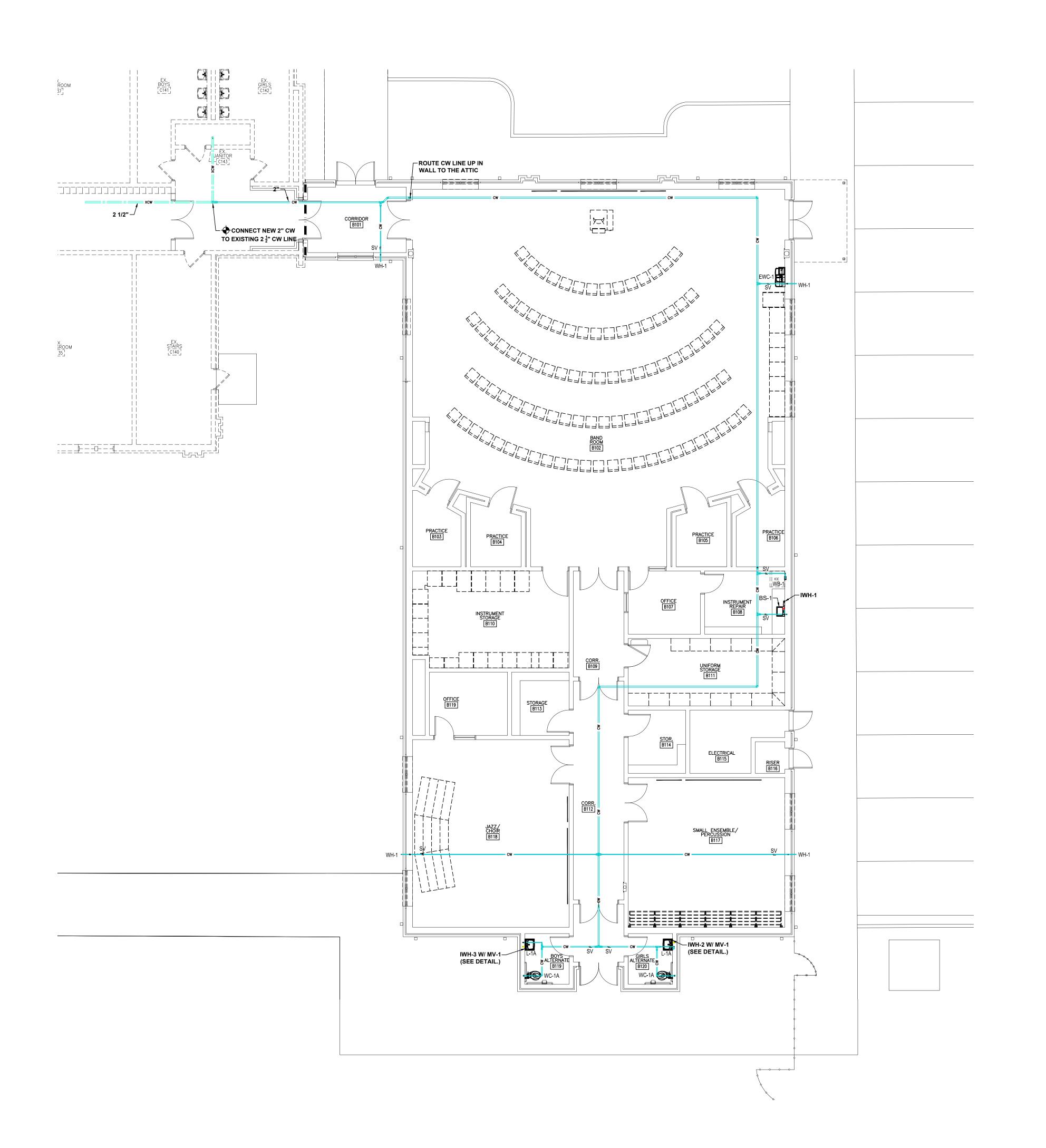
WHORTON ENGINEERING, INC.

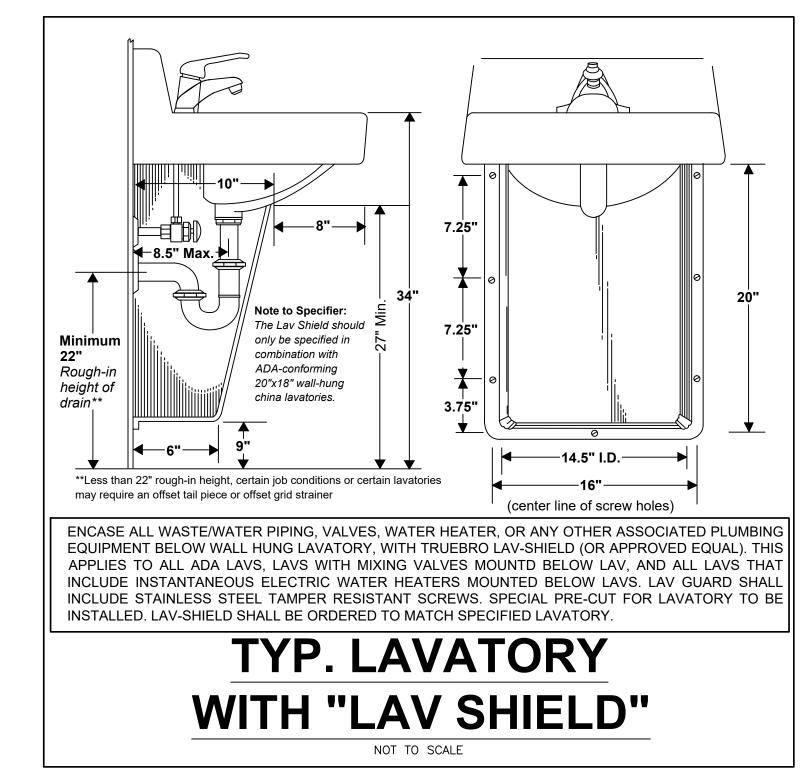
HVAC - PLUMBING - PROCESS CONTROL

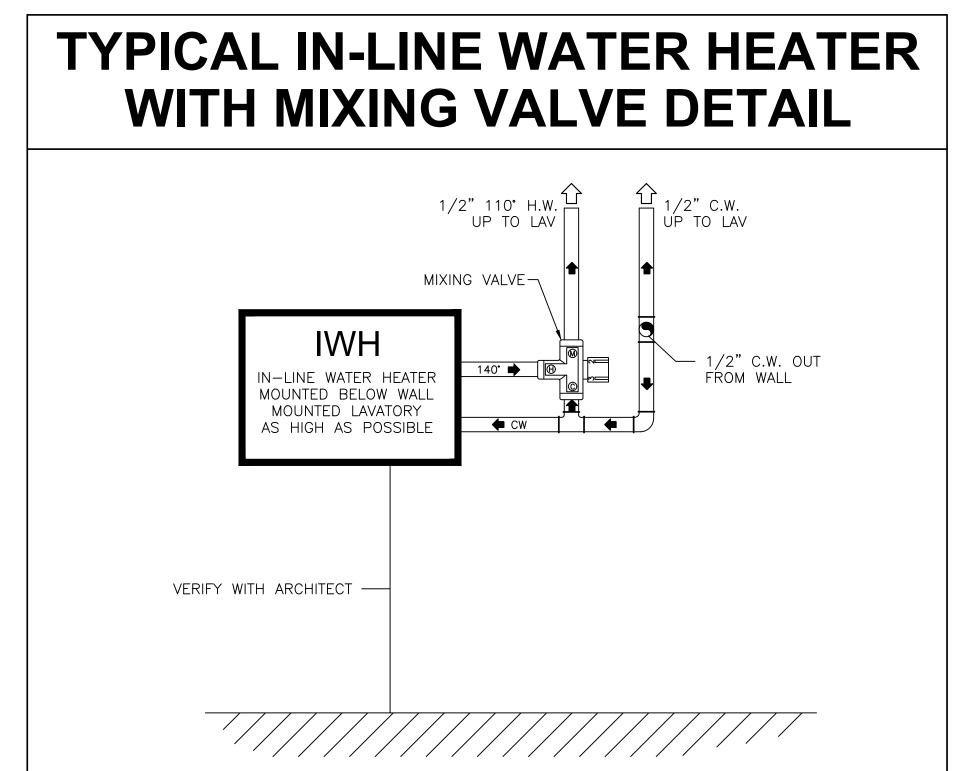
WHORTON ENGINEERING PROJECT NO. 23152

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

RANDALL WHORTON, P.E. PHONE: (256) 820–9897







MIXING VALVE SCHEDULE					
MARK NO.	MANUFACTURER'S MODEL NO.	TEMPERATURE (°F)	INLET	OUTLET	
MV-1	POWERS SERIES LFLM495	SET AT 90°-110°	1/2"	1/2'	

2. EMERGENCY SHOWER/EYEWASH THERMOSTATIC MIXING VALVES SHALL CONFORM TO ASSE 1071

FIRE WALL LEGEND

2 HOUR WALL

2 HOUR WALL



WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

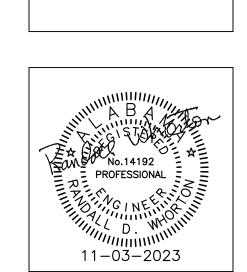
WHORTON ENGINEERING PROJECT NO. 23152

LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

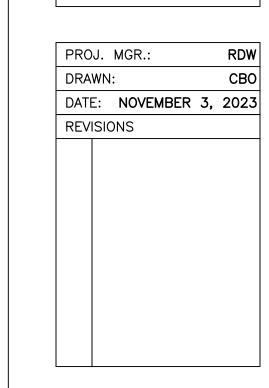
NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 362



SHEET TITLE:
WATER PLUMBING
PLAN - ALTERNATE



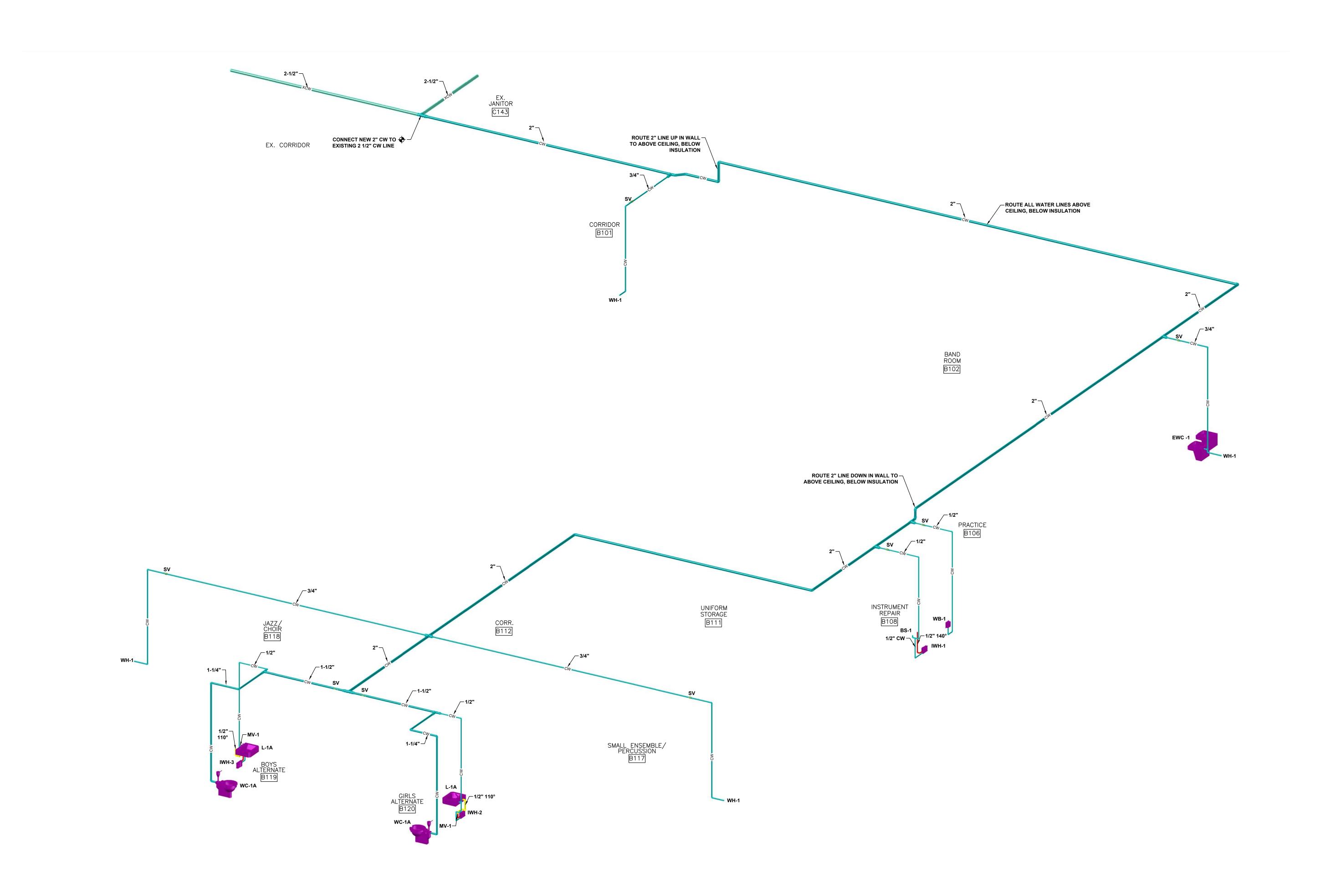
JOB NO. 22-47B

SHEET NO:

P3.3

8 OF 9

0 1" 2



WATER PLUMBING RISER DIAGRAM - ALTERNATE

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820–9897 ANNISTON, ALABAMA 36205

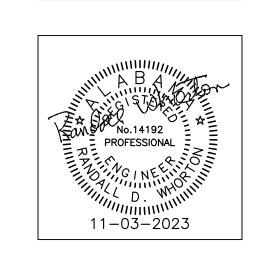
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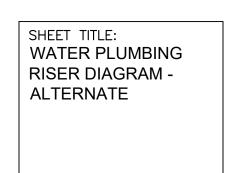
LATHAN ARCHITECTS
LATHAN BRYANT - CALMA

NEW BAND ROOM AND ATHLETIC FACILITIES FOR

JACKSONVILLE HIGH SCHOOL

1000 GEORGE DOUTHIT DRIVE SW, JACKSONVILLE, ALABAMA 362
JACKSONVILLE CITY SCHOOLS





PRO	J.	MGR.:			RDW
DRAV	۷N:				CBO
DATE	:	NOVEME	BER	3,	2023
REVI	SIO	NS			

JOB NO. 22-47B

SHEET NO:

P3.4

9 OF 9

0 1" 2"

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	ACTURER CATALOG NO. LAMPS MOUNTING		MOUNTING	TYPE	RECESS	REMARKS		
MARK	MANOPACTORER	CATALOG NO.	NO.	WATTS	TYPE	HEIGHT	MOUNTING	DEPTH	NEMARKS
А	METALUX	24CGT5535C	FURNIS	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	
A (EM)	METALUX	24CGT5535C-EL14W	FURNIS	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
В	METALUX	24CGT4535C	FURNIS	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	
B (EM)	METALUX	24CGT4535C-EL14W	FURNIS	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
C12	LUMENWERX	VIA4P-D-HLO-FH-NA-SW- 80-1000-NA-35-12'- UNV-D1-1C-ACS	FURNIS	HED WITH F	FIXTURE	+18'	PENDANT		
C12 (EM)	LUMENWERX	VIA4P-D-HLO-FH-NA-SW- 80-1000-NA-35-12'- UNV-D1-1C-1EC12-ACS	FURNIS	HED WITH F	FIXTURE	+18'	PENDANT		SEE NOTE 1
C24	LUMENWERX	VIA4P-D-HLO-FH-NA-SW- 80-1000-NA-35-24'- UNV-D1-1C-ACS	FURNIS	HED WITH F	FIXTURE	+18'	PENDANT		
C24 (EM)	LUMENWERX	VIA4P-D-HLO-FH-NA-SW- 80-1000-NA-35-24'- UNV-D1-1C-1EC24-ACS	FURNIS	HED WITH F	FIXTURE	+18'	PENDANT		SEE NOTE 1
D (EM)	METALUX	4SNLED-LD4-4600SL- LW-UNV-EL14-L835-CD1	FURNIS	HED WITH F	FIXTURE	CEILING	SURFACE		SEE NOTE 1
F (EM)	PORTFOLIO	LD8B50D010EM14- ER8B50708040- 8M2MWE	FURNIS	HED WITH F	FIXTURE	CEILING	RECESSED	6-1/2"	SEE NOTE 1
G	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR	FURNIS	HED WITH F	FIXTURE	+9'	BRACKET		
G (EM)	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR-BBB	FURNIS	HED WITH F	FIXTURE	+9'	BRACKET		SEE NOTE 1
H (EM)	MCGRAW-EDISON	TT-D2-740-U-MQ- BZ-F-TR-IBP	FURNIS	HED WITH F	FIXTURE	CEILING	SURFACE		SEE NOTE 1
Р	MCGRAW EDISON	GALN-SA3C-740- U-T4W-BZ	FURNIS	HED WITH	FIXTURE	+30'	POLE		POLE #SSS-25B5-4-DM19AS COLOR BRONZE (VER.)
X	SURE-LITES	EUX7-R-UNV	FURNIS	HED WITH F	FIXTURE	€ ABOVE DOOR	BRACKET		

1. FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS. UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING.

- 2. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS. 3. EQUAL FIXTURES BY LITHONIA, PARKER, DAYBRITE, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

GENERAL NOTES

- SERVICE TO PROJECT IS 120/208 VOLTS, 3 PHASE, 4 WIRE.
- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
- VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- 4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
- 5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
- 6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- 7. FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
- 8. SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
- 9. ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON
- 10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- 11. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- 12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
- 13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)

FIRE ALARM SYSTEM NOTES

- 1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
- 2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.
- 3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR — SEE SPECS.

COLOR CODE FOR JUNCTION BOXES

NOTE:
PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:	COLOR
LIGHTING	BLUE
POWER	GREEN
FIRE ALARM	RED
MISC. AUXILIARIES (SOUND, ETC.)	BROWN

COLOR CODE FOR ELECTRICAL WIRING

120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM PHÁSE A-BLACK

B-RED C-BLUE N-WHITE

2. GROUND-GREEN

ELECTRICAL SYMBOLS

	LLLCTTIICAL STIVIDOLO
(A) 1	CEILING OUTLET — FIXTURE "A", CIRCUIT 1, SWITCH a.
	CEILING OUTLET - FLUORESCENT FIXTURE.
$\overline{\square}$	CEILING OUTLET - FLUORESCENT INDUSTRIAL OR STRIP TYPE.
\bigcirc \dashv	WALL OUTLET - INCANDESCENT BRACKET TYPE.
-Q	WALL OUTLET - FLUORESCENT BRACKET TYPE.
-	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR.
	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR - MOUNT AT 6" ABOVE COUNTER.
⇒ GFCI	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR.
⇒ WP GFCI	WALL OUTLET — DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095—GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10—CAGV WEATHERPROOF COVER.
•	FLOOR OUTLET - CONDUIT STUB UP.
()	CEILING OUTLET - JUNCTION BOX.
~J	WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
\$	SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY.("N" DENOTES NARROW)
\$2	SWITCH OUTLET — AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 — GREY.
\$3	SWITCH OUTLET — AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 — GREY.
\$4	SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY.
\$м	SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.
	LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
	POWER PANELS — SEE SPECIFICATIONS AND SCHEDULE.
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING. BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
	HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT.
	3 # 12 & 1 # 12(G) — 3/4" CONDUIT. 4 # 12 & 1 # 12(G) — 3/4" CONDUIT.
—Е—	EMPTY CONDUIT - 3/4".
	BRANCH CIRCUIT EXPOSED.
0	CONDUIT RUN DOWN WALLS, CONCEALED
•	CONDUIT RUN UP WALLS, CONCEALED
<u>(5)</u>	MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
①	EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
	MAGNETIC MOTOR STARTER. NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).
	FUSED DISCONNECT SWITCH. (KT = KAINTIGHT).
A.F.F.	ABOVE FINISHED FLOOR.
VER.	VERIFY LOCATION.
N.E.C.	NATIONAL ELECTRICAL CODE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHER PROOF
IG	ISOLATED GROUND
•	FIRE ALARM — SMOKE DETECTOR — SEE SPEC.
⊕ ^D	FIRE ALARM — DUCT DETECTOR — SEE SPEC.
\bigoplus^{H}	FIRE ALARM — HEAT DETECTOR — SEE SPEC.
E	FIRE ALARM - MANUAL PULL STATION - SEE SPEC.
Ē◀	FIRE ALARM — STROBE LIGHT — SEE SPEC.
	FIRE ALARM — SPEAKER STROBE — SEE SPEC.
FACP	FIRE ALARM CONTROL PANEL — EXISTING — SEE SPEC.
S.S.C.	MASTER SOUND CONSOLE - EXISTING - SEE SPEC.
⟨S ⟩ □ –	SOUND SYSTEM — CEILING MOUNTED SPEAKER — SEE SPEC. SOUND SYSTEM — CALL—IN SWITCH — SEE SPEC.
abla	COMPUTER OUTLET - CAT 6 CABLE WITH CAT 6 CONNECTORS - SEE SPEC. (3/4" CONDUIT UNLESS OTHERWISE SPECIFIED)
· ∀	COMPUTER OUTLET - CAT 6 CABLE WITH CAT 6 CONNECTORS - SEE SPEC. (3/4" CONDUIT UNLESS OTHERWISE SPECIFIED)-MOUNT 6" ABOVE COUNTER-SEE SPEC
\$or	LIGHTING CONTROL PANEL OVERRIDE SWITCH - DIGITA 5-1B WALL SWITCH WITH BUILT IN MOTION SENSOR - COOPER #OSW-P-0451-W WITH WALL PLATE
\$мs — М —	MOTION SENSOR WIRING - LOW VOLTAGE WIRING (#14 THHN AS REQUIRED)
_ D	ROOM CONTROL DATA WIRING - CAT 6 CABLING AS REQUIRED
	CCTV SYSTEM - FUTURE CAMERA LOCATION - ABOVE CEILING SHALL BE 1 CAT 6 CABLE CONNTECTED TO IDF (IN 3/4" CONDUIT WHEN NOT ABOVE CEILING).
⊗	FLOOR BOX — COMBINATION EMPTY / DATA / POWER OUTLET. PROVIDE WITH TWO DUPLEX OUTLETS AND EMPTY COMPARTMENTS
•	FOR DATA AND POWER (WIREMOLD EFB10S BOX WITH EFB10SM COMPARTMENTS EFB10-B, EFB10-DP,
Ψ	EFB10-DEC PLATES AS REQUIRED AND EFB10S-DIVIDERS AS REQUIRED AND EFB610BTBZ COVER). THERMOSTAT, HUMIDISTAT, ETC WALL OUTLET 48" AFF OR AS DIRECTED BY MECHANICAL DRAWINGS. RUN EMPTY 3/4" CONDUIT TO ABOVE LAY-IN CEILING.
	VERIFY WITH MECHANICAL FOR EXACT SIZE OF BOX AND QUANTITY OF BOXES AND CONDUITS AT EACH LOCATION.
WPI	WALL PLATE - INPUT AT TEACHERS DESK - HDMI AND USB AND DATA CONNECTIONS - SEE AUXILIARY PLANS
WPO	WALL DIATE OUTDUT AT TV/DOADD. LIDAU AND LICE AND DATA CONNECTIONS. SEE ALIVILIADY DIANS

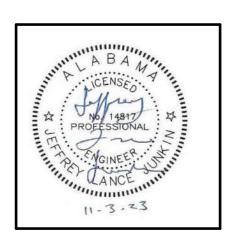
CODE EXCEPTION NOTE

WALL PLATE - OUTPUT AT TV/BOARD - HDMI AND USB AND DATA CONNECTIONS - SEE AUXILIARY PLANS

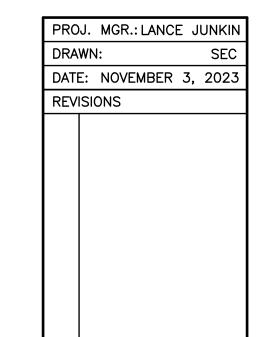
THIS PROJECT HAS BEEN DESIGNED UNDER ASHRAE 90.1 2013, EXCEPT AS FOLLOWS: WE TAKE EXCEPTION TO SECTION 8.4.2 FOR REQUIRING CONTROLLED RECEPTACLES, AND SECTION 8.4.3 FOR REQUIRING ENERGY MONITORING. WE OFFICIALLY REQUEST THAT THIS PROJECT BE APPROVED WITHOUT THOSE ITEMS.

> STEWART ENGINEERING ELECTRICAL CONSULTANTS P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077 Email: services@stewartengineering.org Project Number: Engineer: J. Lance Junkin, P.E. Alabama Reg. 14817 2369

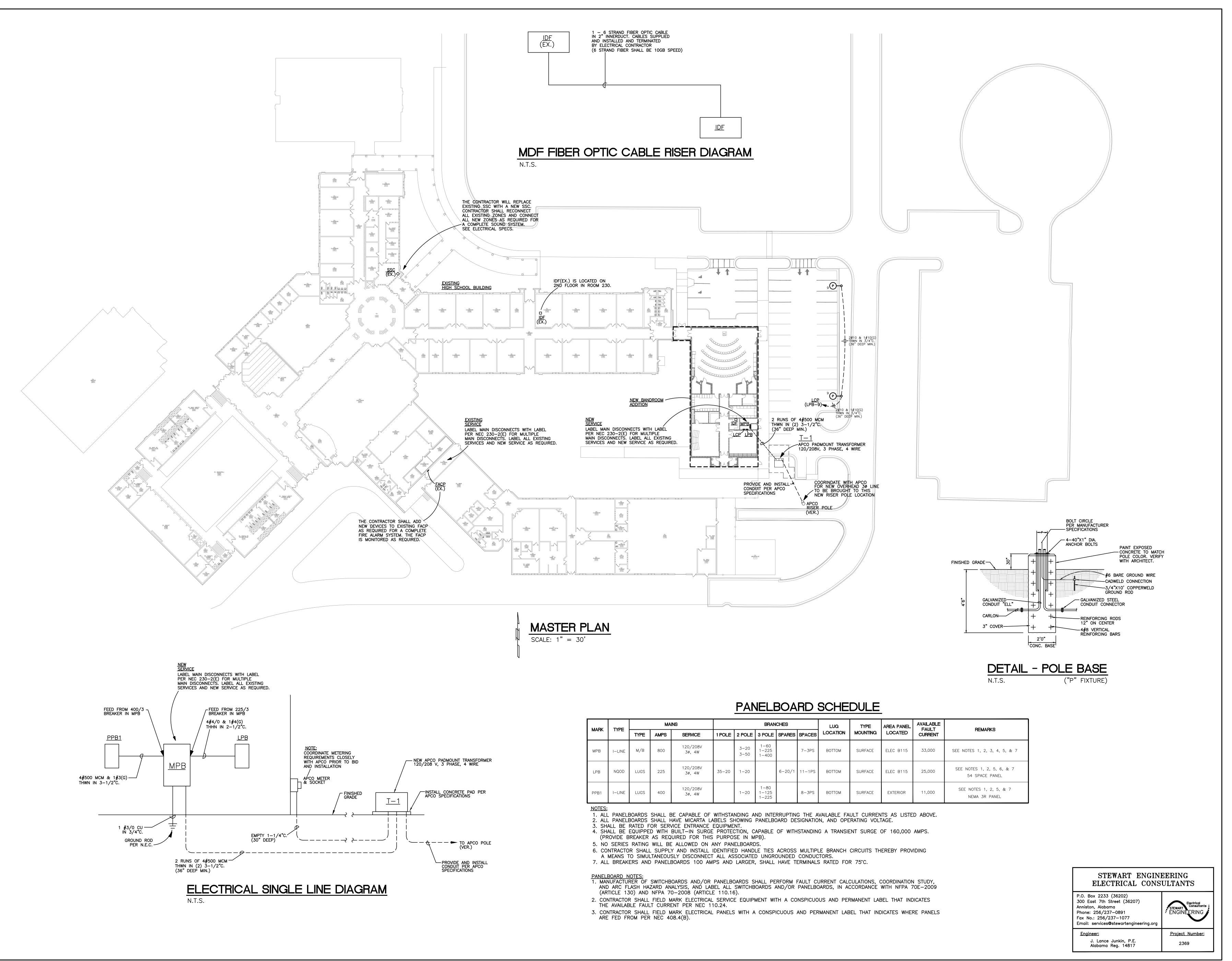




SHEET TITLE: SCHEDULES, SYMBOLS, AND NOTES



JOB NO. **22-47B** SHEET NO: 1 OF 5



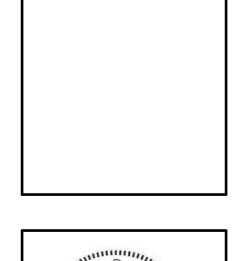
LATHAN ARCHITECTS

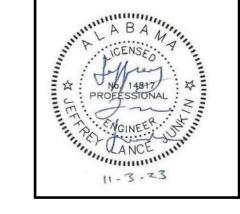
AND ATHLETIC FACILITIES FOR

WILLE HIGH SCHOOL

BAND ROOM

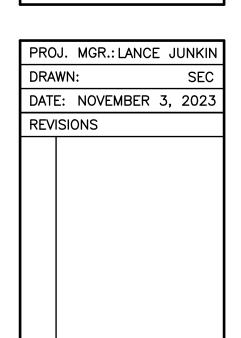
UTHIT DRIVE SW, JACKSONVILLE, ALABAMA 36265





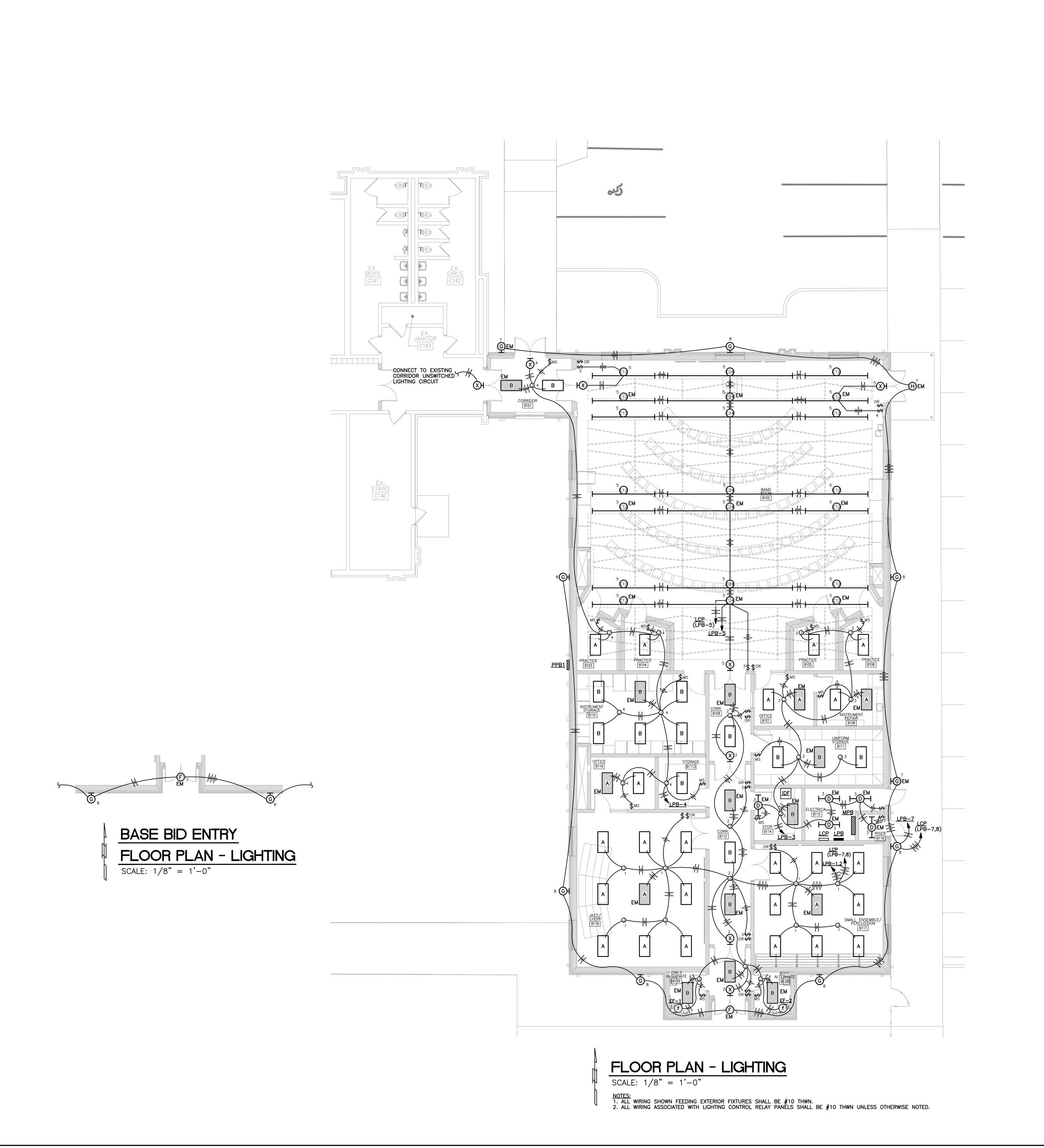
SHEET TITLE:

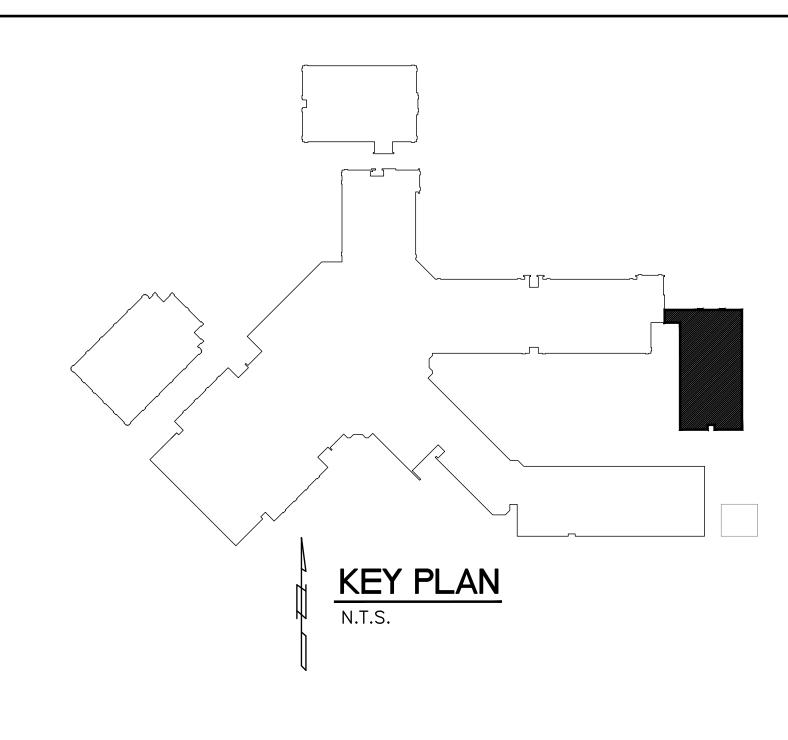
MASTER PLAN AND
SINGLE LINE DIAGRAM

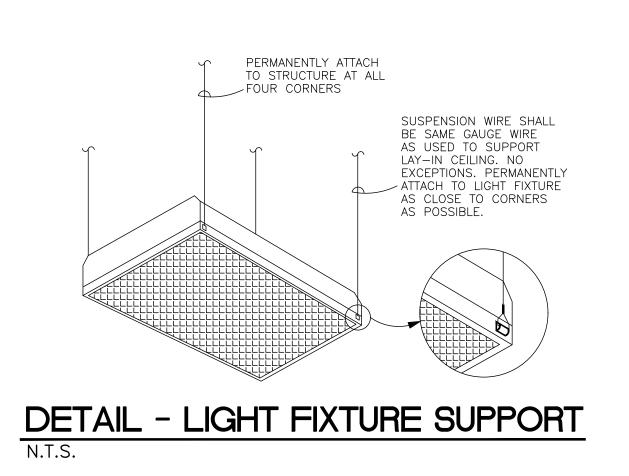


JOB NO. **22-47B**SHEET NO: **E2.1**2 OF 5

0 1" 2"







R	PANEL	CIRCUIT	PROGRAM MODE
1	LPB	1	NORMAL DAY-TO-DAY
2	LPB	2	NORMAL DAY-TO-DAY
3	LPB	5	NORMAL DAY-TO-DAY
4	LPB	7	EXTERIOR DUSK TO DAWN
5	LPB	8	EXTERIOR DUSK TO MIDN.
6	LPB	9	EXTERIOR DTD (2 POLE)
7			
8			
9			
10			
11			
12			
13			
14			
15			

SITE VISIT NOTE:

CONTRACTOR SHALL INCLUDE IN BID PRICE A TOTAL OF (3) SITE VISITS FROM FACTORY TRAINED REPRESENTATIVE FOR LIGHTING CONTROL SYSTEM INSTALLATION, PROGRAMMING, AND TRAINING.

_		
	STEWART ENGINEERING ELECTRICAL CONSULTANTS	
	P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077 Email: services@stewartengineering.org	STEWART Consultants : ENGINEERING
	Engineer: J. Lance Junkin, P.E. Alabama Reg. 14817	<u>Project Number:</u> 2369

LATHAN ARCHITECTS

A B A M
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NO 14847

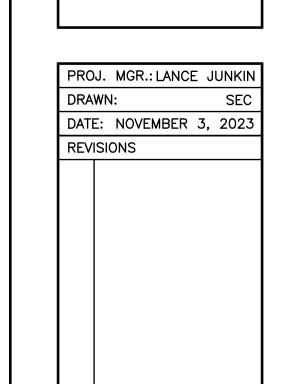
PROFESSIONAL

A CYGINEER

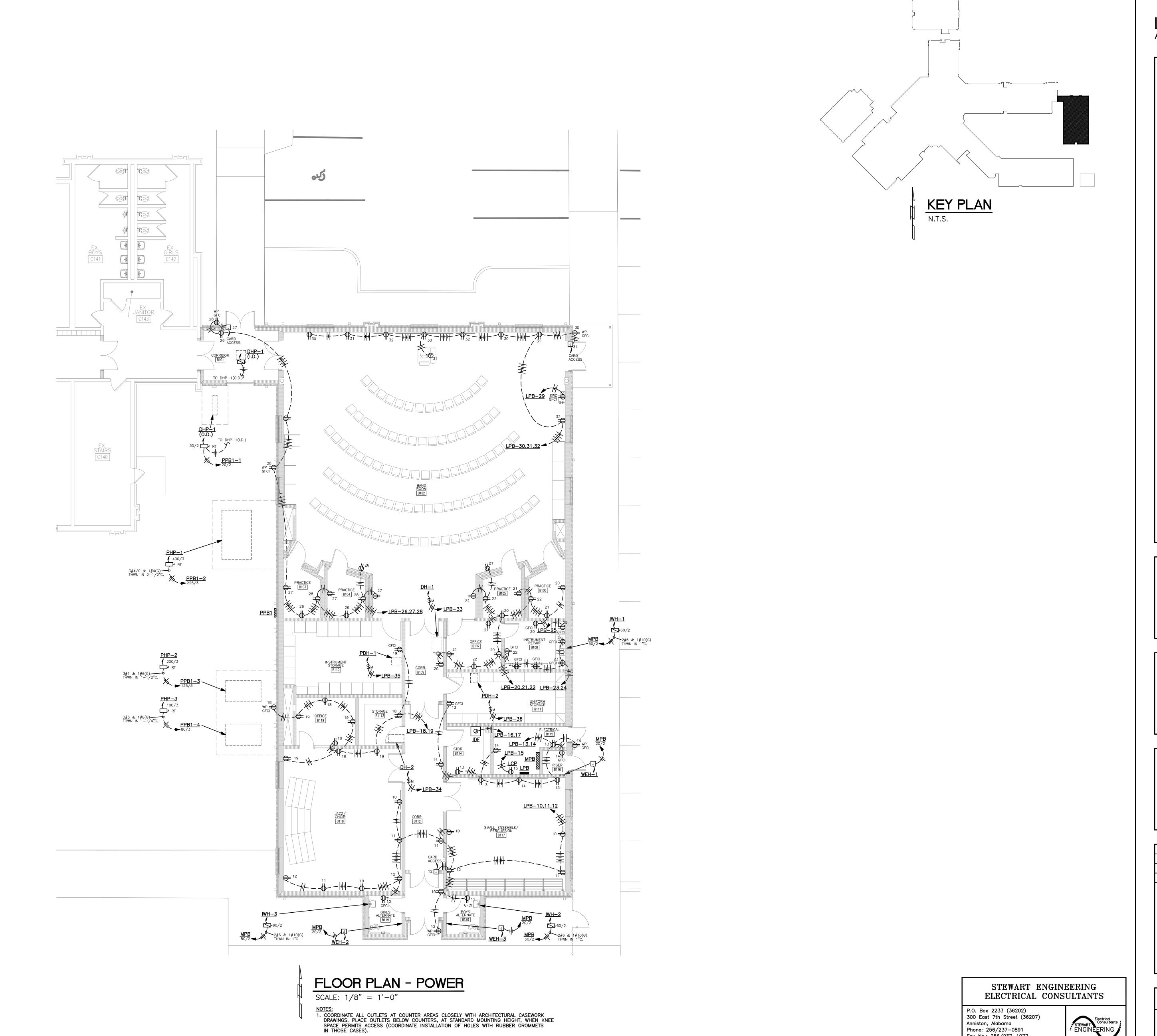
LANCE

SHEET TITLE:

FLOOR PLAN —
LIGHTING



JOB NO. **22-47B**SHEET NO: **E3.1**3 OF 5



2. COORDINATE INSTALLATION OF OUTLETS CLOSELY WITH FURNITURE SUPPLIER.

3. ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.

LATHAN ARCHITECTS

DATE: NOVEMBER 3, 2023

JOB NO. **22-47В** SHEET NO: 4 OF 5

Fax No.: 256/237-1077

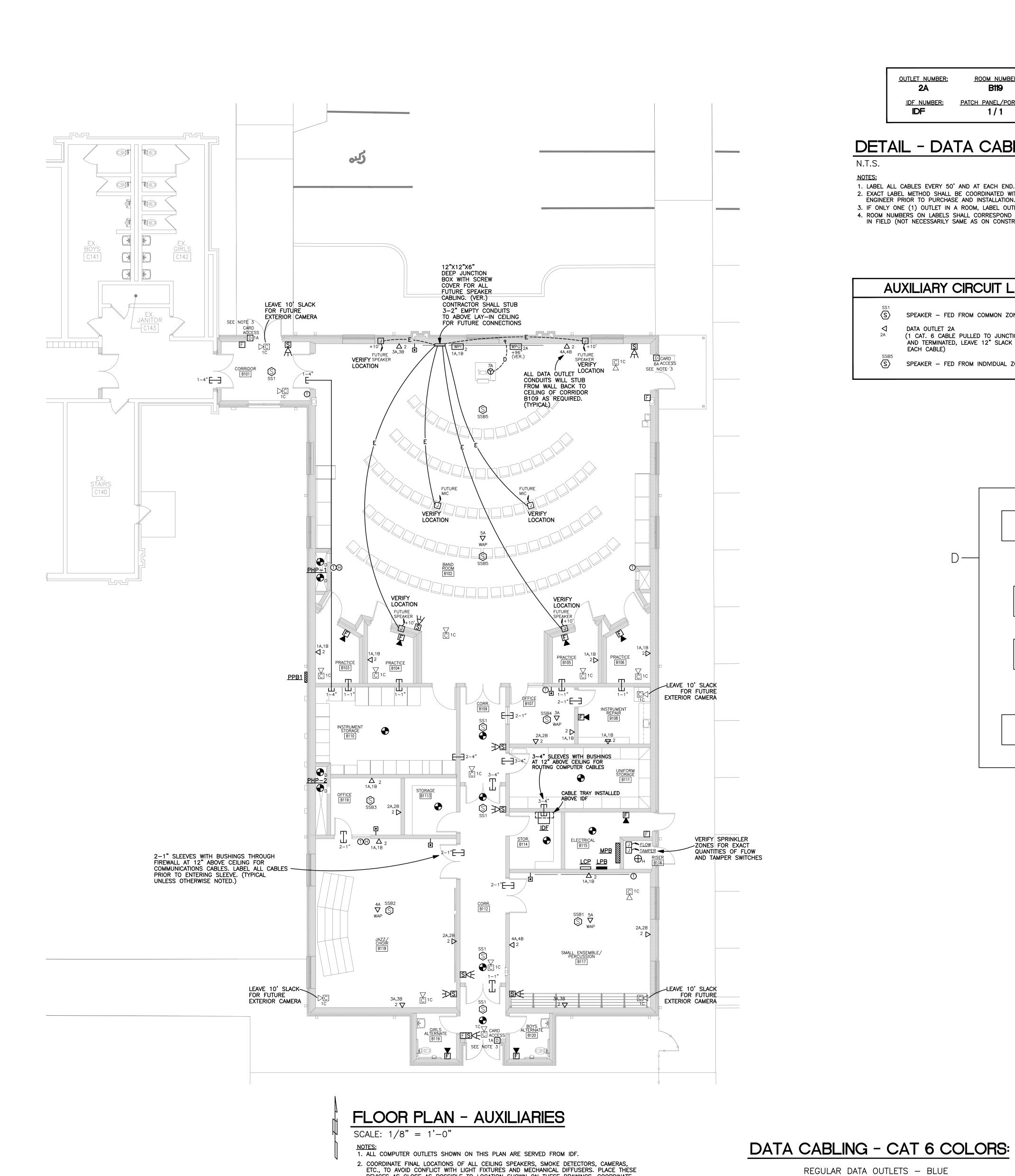
Engineer:

Email: services@stewartengineering.org

J. Lance Junkin, P.E. Alabama Reg. 14817

<u>Project Number:</u>

2369



DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON THESE DRAWINGS. COORDINATE

WITH FIRE ALARM SYSTEM MANUFACTURER WITH REGARD TO APPROPRIATE "MINIMUM"

3. AT THESE DOOR LOCATIONS, CONTRACTOR SHALL INSTALL EMPTY JUNCTION BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ABOVE LAY—IN CEILING FOR FUTURE CARD ACCESS SYSTEM. COORDINATE CLOSELY WITH ARCHITECT FOR DOOR HARDWARE CONFIGURATION.

DISTANCE FROM DIFFUSERS.

OUTLET NUMBER: ROOM NUMBER: PATCH PANEL/PORT #: <u>IDF_NUMBER:</u> 1/1

DETAIL - DATA CABLE LABEL

WIRELESS ACCESS POINTS - ORANGE

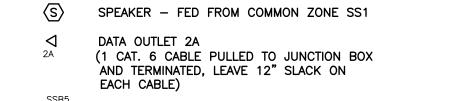
CAMERAS - RED

VOICE - YELLOW

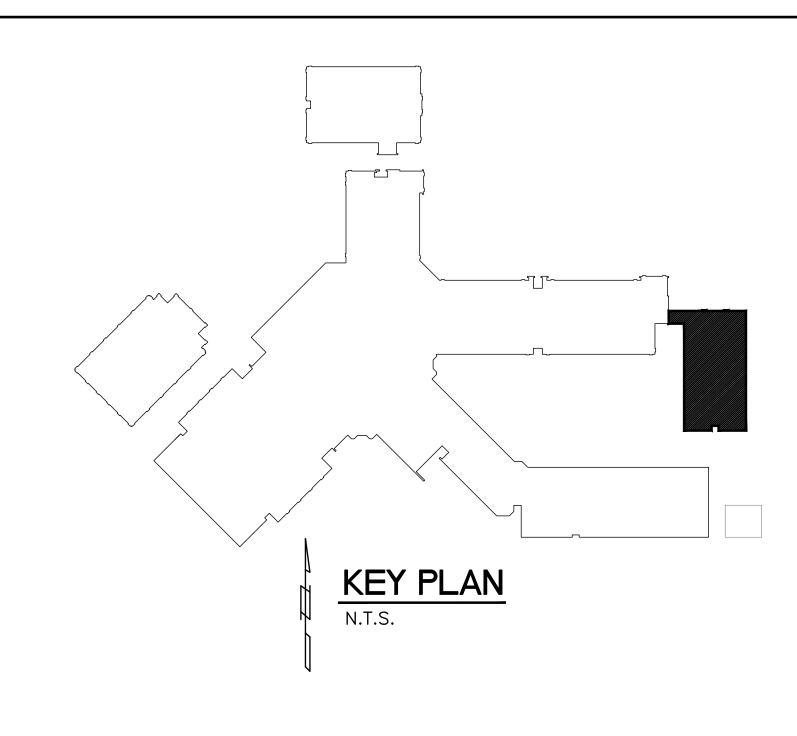
- LABEL ALL CABLES EVERY 50' AND AT EACH END.
 EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION. 3. IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A.
- 4. ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT NECESSARILY SAME AS ON CONSTRUCTION DRAWINGS).

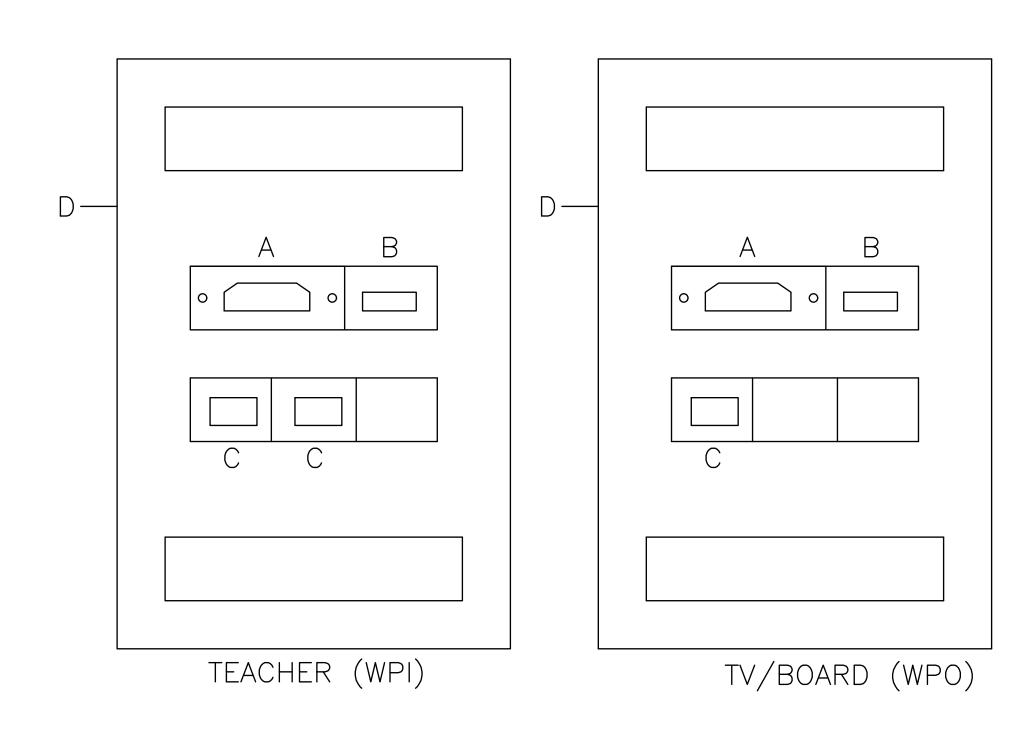
AUXILIARY CIRCUIT LEGEND

SPEAKER - FED FROM COMMON ZONE SS1



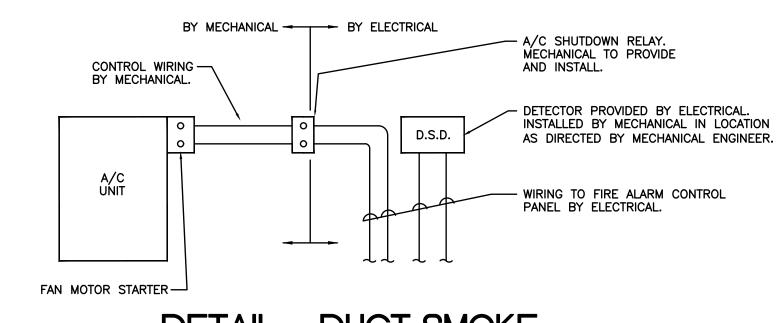
SPEAKER - FED FROM INDIVIDUAL ZONE SSB5





- HDMI CONNECTION
- USB CONNECTION
- DATA CAT 6 CONNECTION
- D S.S. PLATE

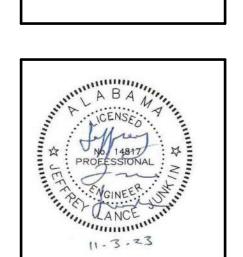
DETAIL - PROJECTION PLATES



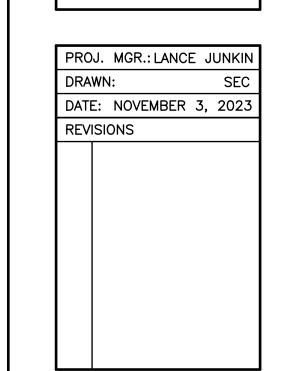
DETAIL - DUCT SMOKE DETECTOR CONNECTION

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Engineer: J. Lance Junkin, P.E. Alabama Reg. 14817	Project Number: 2369	

LATHAN ARCHITECTS



SHEET TITLE: FLOOR PLAN -AUXILIARIES



JOB NO. **22-47В** SHEET NO: 5 OF 5