AN ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
1501 W. BYPASS ROAD, ANDALUSIA, AL 36420
ANDALUSIA CITY BOARD OF EDUCATION

OWNER
Andalusia City Board of Education
122 6th Avenue
Andalusia, Alabama 36420
Phone: (334) 222.3186

ARCHITECTURAL
McKee & Associates Architects, Inc.
DBA *Lathan McKee Architects*
631 South Hull Street
Montgomery, Alabama 36104
Phone: (334) 834.9933

CIVIL
Professional Engineering Consultants
822 South McDonough Street
Montgomery, Alabama 36104
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Day Structures
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Prattville, Alabama 36067
Phone: (334) 277.9550

PLUMBING and MECHANICAL
Morris Davis Engineering, LLC
903 S. Perry Street
Montgomery, Alabama 36104
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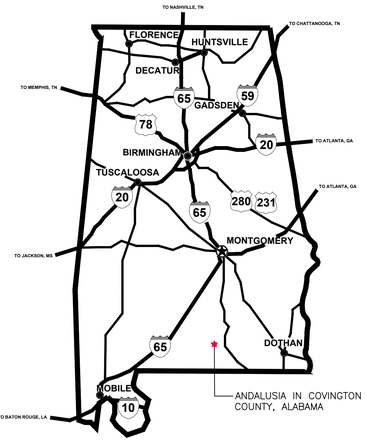
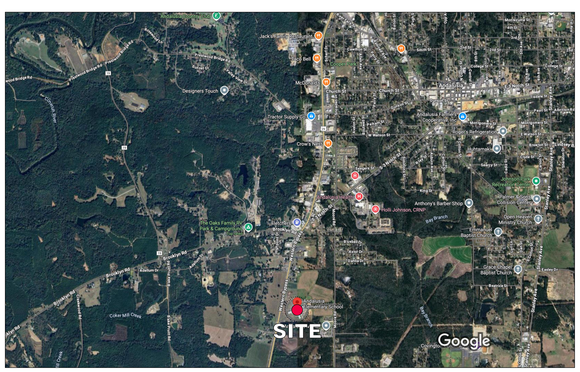
Garner & Associates Engineering
901 S. Perry Street
Montgomery, Alabama 36104
Phone: (334) 647.1596

DCM PROJECT NO. 2025681



AREA MAP
STATE OF ALABAMA



VICINITY MAP
ANDALUSIA, AL

INDEX TO DRAWINGS

GENERAL		ARCHITECTURAL		INTERIOR TREATMENT		MECHANICAL	
G0.1	COVER SHEET AND INDEX TO DRAWINGS	A0.1	ARCHITECTURAL SITE PLAN	N/A		M0.1	OVERALL MECHANICAL PLAN
G1.1	CODE PLAN	A1.0	OVERALL FLOOR PLAN	FIRE PROTECTION		M1.1	MECHANICAL PLAN - PART 'A'
G1.2	SHELTER PLAN	A1.1	FLOOR PLAN - PART "A"	FP1.0	FIRE SPRINKLER PLAN OVERALL	M1.2	MECHANICAL PLAN - PART 'B'
		A1.2	FLOOR PLAN - PART "B"	FP2.0	FIRE SPRINKLER DETAILS	M2.1	MECHANICAL STORM SHELTER PLAN
CIVIL		A1.3	MEZZANINE FLOOR PLAN	FP2.1	FIRE SPRINKLER DETAILS	M3.1	MECHANICAL DETAILS
C-1	DEMO PLAN	A1.10	ENLARGED FLOOR PLANS	PLUMBING		M4.1	MECHANICAL SCHEDULES
C-2	SITE & UTILITY PLAN	A2.1	REFLECTED CEILING PLAN - PART "A"	P0.1	PLUMBING OVERALL PIPING PLAN	M4.2	MECHANICAL OUTDOOR AIR VENTILATION CALCULATIONS
C-3	SANITARY PROFILES	A2.2	REFLECTED CEILING PLAN - PART "B"	P1.1	PLUMBING WASTE AND VENT PIPING PLAN - PART 'A'	M4.3	MECHANICAL REFRIGERANT CALCULATIONS
C-4	GRADING & STORM WATER PLAN	A3.1	ROOF PLAN OVERALL	P1.2	PLUMBING WASTE AND VENT PIPING PLAN - PART 'B'	M5.1	MECHANICAL CONTROL PROGRAMS
C-5	STORM WATER PROFILES	A3.2	ROOF DETAILS	P1.3	PLUMBING WASTE AND VENT ENLARGED PIPING PLAN	ELECTRICAL	
C-6	EROSION CONTROL PLAN	A4.0	EXTERIOR ELEVATIONS OVERALL	P2.1	PLUMBING WATER PIPING PLAN - PART 'A'	E0.1	ELECTRICAL SYMBOL LEGEND AND NOTES
C-7	DETAILS	A4.1	EXTERIOR ELEVATIONS	P2.2	PLUMBING WATER PIPING PLAN - PART 'B'	E0.2	LIGHTING FIXTURE SCHEDULE NOTES AND DETAILS
C-8	DETAILS	A4.2	EXTERIOR ELEVATIONS	P2.3	PLUMBING WATER PIPING ENLARGED PIPING PLAN	E0.3	POWER RISER DIAGRAM, DETAILS AND NOTES
STRUCTURAL		A5.1	BUILDING SECTIONS	P3.1	PLUMBING RISERS	E0.4	PANELBOARD SCHEDULE AND NOTES
S0.1	TYPICAL SECTIONS, DETAILS AND SCHEDULES	A5.2	BUILDING SECTIONS	P3.2	PLUMBING RISERS	E0.5	ELECTRICAL DETAILS
S0.2	TYPICAL SECTIONS, DETAILS AND SCHEDULES	A6.1	WALL SECTIONS	P4.1	PLUMBING DETAILS	E0.6	ELECTRICAL DETAILS
S0.3	SHELTER DESIGN INFORMATION AND DETAILS	A6.2	WALL SECTIONS	P4.2	PLUMBING DETAILS	E0.7	ELECTRICAL DETAILS
S0.4	SPECIAL INSPECTION SCHEDULE	A6.3	WALL SECTIONS			E0.8	ELECTRICAL DETAILS
S1.1	FOUNDATION PLAN - PART 'A'	A6.4	WALL SECTIONS			E0.9	LIGHTING COMCHECK
S1.2	FOUNDATION PLAN - PART 'B'	A6.5	WALL SECTIONS			E1.1	ELECTRICAL SITE PLAN
S1.3	SHELTER CEILING FRAMING PLAN	A7.1	PARTITION TYPES			E1.2	LIGHTING SITE PLAN
S1.4	ROOF FRAMING PLAN - PART 'A'	A8.1	ROOM FINISH SCHEDULE			E1.3	ELECTRICAL SITE DETAILS
S1.5	ROOF FRAMING PLAN - PART 'B'	A8.2	DOOR SCHEDULE			E2.1	LIGHTING FLOOR PLAN - PART 'A'
S2.1	CANOPY FOUNDATION PLAN	A8.3	DOOR AND WINDOW TYPES			E2.2	LIGHTING FLOOR PLAN - PART 'B'
S2.2	CANOPY ROOF FRAMING PLAN	A8.4	DOOR AND WINDOW DETAILS			E2.3	CANOPY LIGHTING PLAN - PART 'B'
S3.1	SECTIONS	A9.1	MISCELLANEOUS DETAILS			E2.4	LIGHTING ATTIC PLAN
S3.2	SECTIONS	A9.2	MISCELLANEOUS DETAILS - BASKETBALL COURT			E3.1	POWER FLOOR PLAN - PART 'A'
S3.3	SECTIONS	A9.3	MISCELLANEOUS DETAILS			E3.2	POWER FLOOR PLAN - PART 'B'
		A10.1	CASEWORK			E4.1	MECHANICAL POWER FLOOR PLAN - PART 'A'
		FOOD SERVICE				E4.2	MECHANICAL POWER FLOOR PLAN - PART 'B'
		FS-100	FOOD SERVICE EQUIPMENT LAYOUT			E4.3	MECHANICAL POWER ATTIC PLAN
		FS-200	FOOD SERVICE EQUIPMENT UTILITIES			E5.1	AUXILIARY FLOOR PLAN - PART 'A'
						E5.2	AUXILIARY FLOOR PLAN - PART 'B'
						E5.3	AUXILIARY ATTIC PLAN

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
COVER SHEET AND INDEX

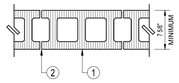
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD

DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
G0.1

0 1" 2"

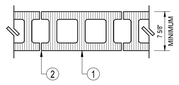


1 hour CMU wall: Calculated Fire Resistance
to meet or exceed IBC Sec. 721.3
Bearing Wall - 1 hour
Non-Bearing Wall - 1 hour

1. Concrete Blocks - Various Designs. Classification C-2 (2 hr.)
2. Mortar - Blocks laid in full bed of mortar, nominal 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume) Vertical joints staggered (running bond).

1 ONE-HOUR FIRE RATED PARTITION PLAN DETAIL

SCALE: 1" = 1'-0"



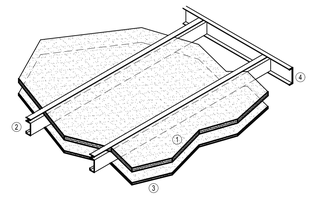
UL Design No. U905 - 2 hour wall

Bearing Wall - 2 hour
Non-Bearing Wall - 2 hour

1. Concrete Blocks - Various Designs. Classification C-2 (2 hr.)
2. Mortar - Blocks laid in full bed of mortar, nominal 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume) Vertical joints staggered (running bond).

2 TWO-HOUR FIRE RATED WALL PLAN DETAIL

SCALE: 1" = 1'-0"



1. 1" LINER PANELS OR 2-LAYERS 1/2" FIRECODE "C" WALLBOARD INSERTED IN C-H STUDS 24" O.C..
2. 600CH20 (6", 20 GA.) STUDS 24" O.C. (SEE LIMITING SPAN NOTE)
3. SINGLE-LAYER 5/8" FIRECODE "C" WALLBOARD SCREW-ATTACHED TO STUDS.
4. SET C-H STUDS IN 20 GA. RUNNERS ANCHORED TO WALL AT 24" O.C. MAX.

LIMITING SPAN NOTE: INSTALL DOUBLE 6" E-STUDS FOR SPANS EXCEEDING 17'-5"

NOTE: ONE-HOUR FIRE-RATED HORIZONTAL SHAFT WALL ASSEMBLY EQUAL TO TEST NO. WHI-495PSH

3 ONE-HOUR FIRE RATED ROOF / CEILING ASSEMBLY ISOMETRIC DETAIL

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

PLUMBING CALCULATIONS GYMNASIUM AND MULTI PURPOSE

PLUMBING REQUIREMENTS "A" (BANQUEST HALLS)

OCCUPANT LOAD TOTAL = **209** PERSONS

TOILETS (TABLE 2902.1)
MALE (1 PER 75 OCC.) (**106** OCC.): **2R**
FEMALE (1 PER 75 OCC.) (**106** OCC.): **2R**

LAVATORIES (TABLE 2902.1)
MALE (1 PER 200 OCC.) (**106** OCC.): **1R**
FEMALE (1 PER 200 OCC.) (**106** OCC.): **1R**

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 500 OCC.) (**209** OCC.): **1R**

SERVICE SINK (TABLE 2902.1): **1R**

PLUMBING REQUIREMENTS "A" (GYM)

OCCUPANT LOAD TOTAL = **236** PERSONS

TOILETS (TABLE 2902.1)
MALE (1 PER 75 OCC.) (**118** OCC.): **2R**
FEMALE (1 PER 40 OCC.) (**118** OCC.): **3R**

LAVATORIES (TABLE 2902.1)
MALE (1 PER 200 OCC.) (**118** OCC.): **1R**
FEMALE (1 PER 150 OCC.) (**118** OCC.): **1R**

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 1000 OCC.) (**236** OCC.): **1R**

SERVICE SINK (TABLE 2902.1): **1R**

PLUMBING PROVIDED TOTAL:

TOILETS (TABLE 2902.1)
MALE STUDENTS: **4** PROVIDED
FEMALE STUDENTS: **4** PROVDED
SINGLE USER ROOMS: **2** PROVIDED (GENERAL USE)

LAVATORIES (TABLE 2902.1)
MALE STUDENTS: **4** PROVIDED
FEMALE STUDENTS: **4** PROVIDED
SINGLE USER ROOMS: **2** PROVIDED (GENERAL USE)

DRINKING FOUNTAINS (TABLE 2902.1): **6** PROVIDED

SERVICE SINK (TABLE 2902.1): **1** PROVIDED

URINALS MAY BE SUBSTITUTED FOR UP TO 67% OF THE REQUIRED WATER CLOSETS IN EACH TOILET ROOM (INTERNATIONAL PLUMBING CODE 424.2).

PLUMBING CALCULATIONS CLASSROOM AREAS

PLUMBING REQUIREMENTS "E"

OCCUPANT LOAD TOTAL = **668** PERSONS

TOILETS (TABLE 2902.1)
MALE (1 PER 50 OCC.) (**334** OCC.): **7R**
FEMALE (1 PER 50 OCC.) (**334** OCC.): **7R**

LAVATORIES (TABLE 2902.1)
MALE (1 PER 50 OCC.) (**334** OCC.): **7R**
FEMALE (1 PER 50 OCC.) (**334** OCC.): **7R**

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 100 OCC.) (**668** OCC.): **7R**

SERVICE SINK (TABLE 2902.1): **1R**

PLUMBING PROVIDED TOTAL:

TOILETS (TABLE 2902.1)
MALE STUDENTS: **4** PROVIDED
FEMALE STUDENTS: **4** PROVIDED
SINGLE USER ROOMS: **8** PROVIDED (GENERAL USE)
STAFF SINGLE USER ROOMS: **2** PROVIDED

LAVATORIES (TABLE 2902.1)
MALE STUDENTS: **4** PROVIDED
FEMALE STUDENTS: **4** PROVIDED
SINGLE USER ROOMS: **8** PROVIDED (GENERAL USE)
STAFF SINGLE USER ROOMS: **2** PROVIDED

DRINKING FOUNTAINS (TABLE 2902.1): **6** PROVIDED

SERVICE SINK (TABLE 2902.1): **1** PROVIDED

URINALS MAY BE SUBSTITUTED FOR UP TO 67% OF THE REQUIRED WATER CLOSETS IN EACH TOILET ROOM (INTERNATIONAL PLUMBING CODE 424.2).

CODE LEGEND

SYMBOL	DESCRIPTION
1	ONE HOUR FIRE RATED PARTITION UL# - XXX - SEE SECTION 1/G1.1
2	TWO HOUR FIRE RATED PARTITION UL# - XXX- SEE SECTION 2/G1.1
	ONE HOUR FIRE RATED CEILING ASSEMBLY WHI-495PSH
	OVERALL SHELTER CONSTRUCTION LIMITS
EXIT	PRIMARY BUILDING EXIT
TD 250'	TRAVEL DISTANCE NEAREST TO EXIT
	HANDICAP ACCESSIBLE
FE	FIRE EXTINGUISHER LOCATION (SEE DETAIL A9.1)
FSD	FIRE SEPARATION DISTANCE (TABLE 705.8)
EWR-10" →	EXIT WIDTH REQUIRED
EWP-34" →	EXIT WIDTH PROVIDED
168 → 340 →	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
3/4 HOUR	RATED DOOR ASSEMBLY (SECTION 716) (TABLE 716.1.2)
(UP, S) 25% (UP, S) NO LIMIT	UNPROTECTED, SPRINKLERED (% OF OPENINGS ALLOWED) (TABLE 705.8)

CODE REVIEW

CODE: **2021 INTERNATIONAL BUILDING CODE**

OCCUPANCY TYPE (SECTION 303) : **GROUP 'E'**

SPRINKLERED (SECTION 903): **YES**

NUMBER OF STORIES (TABLE 504.3): **ONE**

CONSTRUCTION TYPE (SECTION 602): **TYPE II-B**

TYPE II-B, REQUIRES THE FOLLOWING
FIRE RESISTANCE (TABLE 601):

STRUCTURAL FRAME:	**0 HOUR**
EXTERIOR BEARING WALLS:	**0 HOUR**
INTERIOR BEARING WALLS:	**0 HOUR**
EXTERIOR NONBEARING WALLS:	**0 HOUR**
INTERIOR NONBEARING WALLS:	**0 HOUR**
FLOOR CONSTRUCTION:	**0 HOUR**
ROOF CONSTRUCTION:	**0 HOUR**

OTHER REQUIREMENTS:

FIRE WALL RATING (TABLE 706.4): **2 HOUR**
OCCUPANCY SEPARATION (TABLE 508.4): **NO SEPARATION** BETWEEN EDUCATIONAL AND ASSEMBLY OCCUPANCIES.IS REQUIRED.

INCIDENTAL USE AREAS (TABLE 509.1): **NO SEPARATION** IN SPRINKLERED BUILDINGS.

FIRE-RESISTANT CORRIDORS (TABLE 1020.2): CORRIDORS SERVING A **SPRINKLERED EDUCATIONAL** OR **ASSEMBLY** OCCUPANCY SHALL NOT BE REQUIRED TO HAVE A FIRE RATING.

STAIRS & SHAFT ENCLOSURES (707 & TABLE 707.3.10 NOT LESS THAN 508.4 IF APPLICABLE): **NA**

SINGLE OCCUPANCY FIRE BARRIERS
(TABLE 707.3.10): **2 HOURS**

EXIT ACCESS TRAVEL DISTANCE
IS **250 FEET** FOR **SPRINKLERED (**TABLE 1017.2)

DRAFTSTOPPING OF ATTIC AND CONCEALED ROOF SPACES: NOT REQUIRED IN NONCOMBUSTIBLE ATTIC SPACES AND CONCEALED ROOF SPACES, PER 718.4. FIREBLOCKING AND DRAFTSTOPPING IS REQUIRED IN COMBUSTIBLE CONCEALED LOCATIONS. (718.1)

TORNADO SHELTER SEPARATION FROM OTHER BUILDING AREA (ICC 500, SECTION 603.1): **2 HOUR RATING**

AREA AND EXIT CALCULATIONS

TOTAL BUILDING AREA

OCCUPANCY TYPE (SECTION 303) - EDUCATIONAL GROUP **'E'**
BUILDING TYPE (SECTION 602): **II-B SPRINKLERED**
ALLOWABLE SF: **58,000** SQ FT (TABLE 506.2)
ACTUAL SF: **38,007** SQ FT

ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4)
ALLOWABLE HEIGHT: **75** FT
ALLOWABLE NO. OF STORIES: **3**
ACTUAL BUILDING HEIGHT: **± 36** FT
ACTUAL NO. OF STORIES: **1**

OCCUPANT LOAD

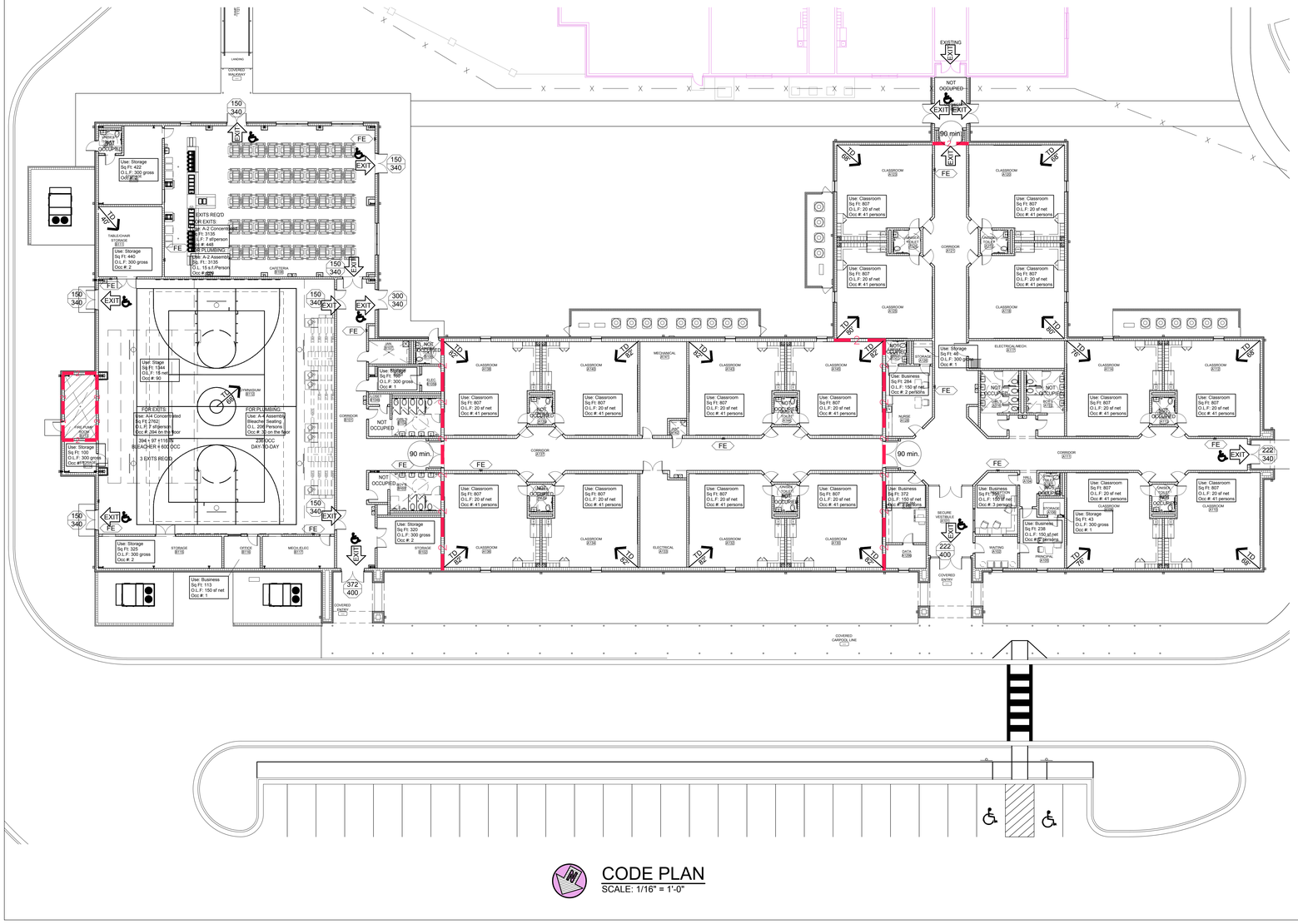
OCCUPANT LOAD TOTAL (1004 & TABLE 1004.5) =
OCCUPANT LOAD - EDUCATION:
668 PERSONS (**3** EXITS REQUIRED, **3** EXITS PROVIDED)
OCCUPANT LOAD - ASSEMBLY MULTI-PURPOSE:
450 PERSONS (**3** EXITS REQUIRED, **3** EXITS PROVIDED)
OCCUPANT LOAD - ASSEMBLY GYMNASIUM:
607 PERSONS (**3** EXITS REQUIRED, **3** EXITS PROVIDED)
TOTAL CALCULATED OCCUPANT LOAD FOR EXITING - **1725**

EXIT REQUIREMENTS

EXIT ACCESS (TABLE 1006.2.1 & TABLE 1006.3.3)
NO. OF EXITS REQUIRED: **8**
NO. OF EXITS FURNISHED: **10**

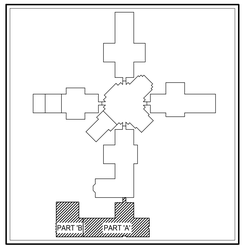
MEANS OF EGRESS WIDTH (1005.3)
SEE PLAN FOR EXIT WIDTHS

MINIMUM CORRIDOR WIDTH (TABLE 1020.3) **72"** WHERE OCCUPANT LOAD IS 100 OR MORE. OTHERWISE, A MIN. OF **44"** IS REQUIRED.



CODE PLAN

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



KEY PLAN

SCALE: NTS

TRUE NORTH

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: CODE PLAN

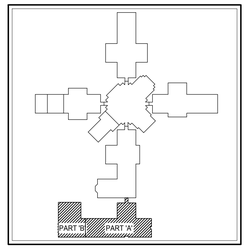
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: G1.1

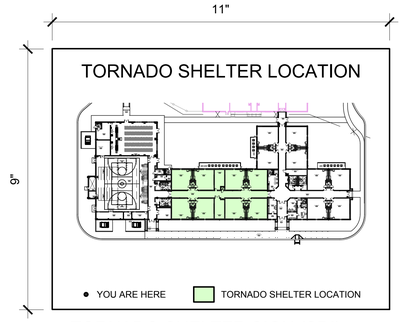
0 1" 2"

- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/~G1.X Code Plans.dwg
- Tuesday, January 13, 2026 10:23:01 AM

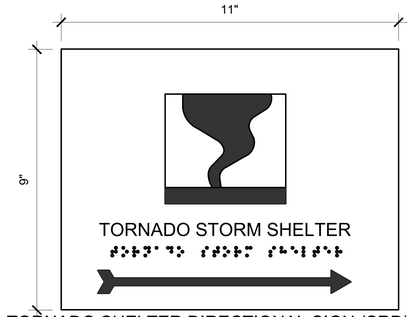


KEY PLAN
SCALE: NTS

TRUE NORTH

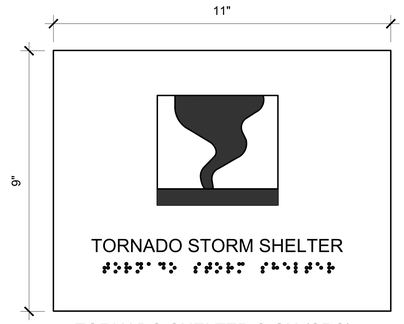


TORNADO SHELTER SIGN (SRI)

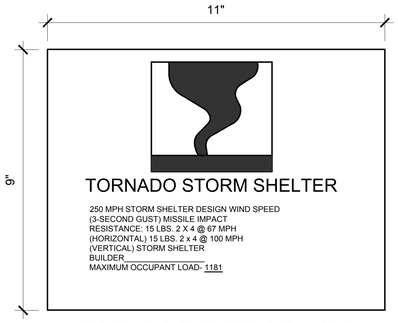


TORNADO SHELTER DIRECTIONAL SIGN (SRD)

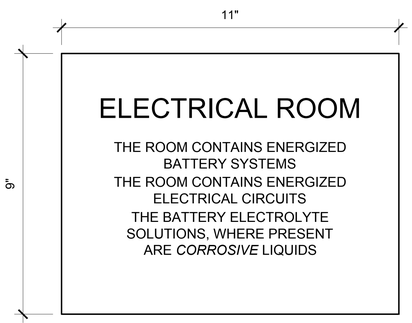
TORNADO SHELTER SIGN (PSS)



TORNADO SHELTER SIGN (SRS)



TORNADO SHELTER SIGN (SRB)



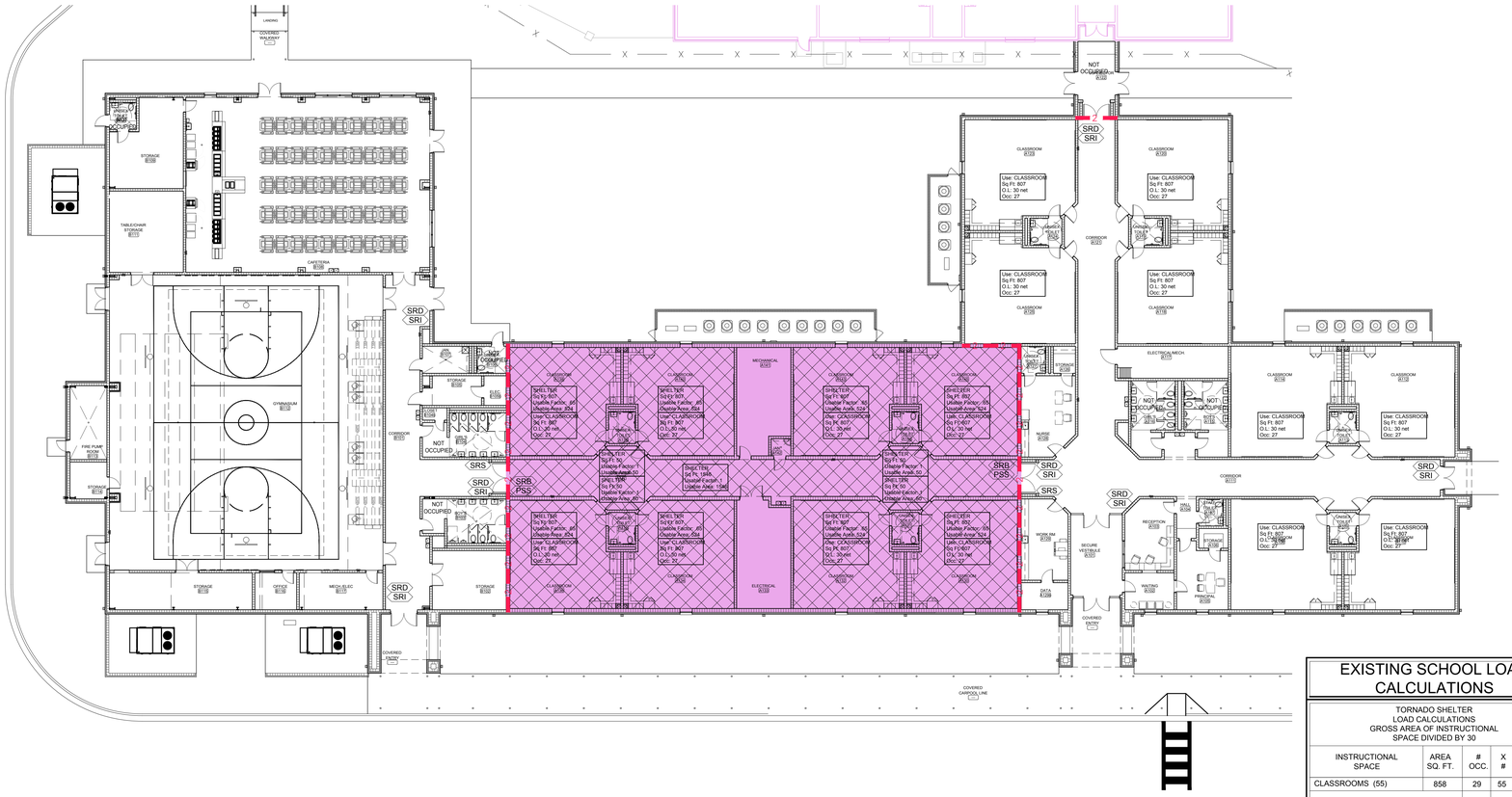
INVERTER ROOM SIGNAGE

TORNADO SHELTER DESIGN INFORMATION

WIND AND DESIGN LOAD	
DESIGN WIND SPEED	200 MPH
WIND DIRCETIONALITY FACTOR	1.0
WIND EXPOSURE CATAGORY	C
INTERNAL PRESSURE COEFFICIENT, CG_{pi}	+-0.55
TOPOGRAPHIC FACTOR, K_{zt}	1.0
WIND DIRECTIONALITY FACTOR, K_{d}	1.0
MISSILE IMPACT CRITERIA	100 MPH VERTICALLY 67 MPH HORIZONTALLY
ROOF LIVE LOAD	100 PSF
VENTING AREA (SQ. IN.)	CITING EXCEPTION 304.7 2020 ICC 500
WALL / OPENINGS / DOOR AND WINDOW ASSEMBLIES	
DOOR / ALCOVES /BAFFLED ENTRY	TESTING IN COMPLIANCE WITH 2020 ICC-500
WALLS AND ROOF SYSTEMS	TESTING IN COMPLIANCE WITH 2020 ICC 500 OR APPENDIX E FEMA 361
GLAZING SYSTEMS	WINDOWS COMPLYING WITH 2020 ICC 500
OPENING PROTECTIVES - LOUVERS OR VENTS	TESTING IN COMPLIANCE WITH 2020 ICC 500
FLOOD HAZARDS	
SPECIAL FLOOD HAZARD AREA	NO
WITHIN 0.2% OF SFPA	NO
SHELTER AREA FLOOR ELEVATION	361.70

TORNADO SHELTER LEGEND

SYMBOL	DESCRIPTION
	OVERALL SHELTER CONSTRUCTION LIMITS
	EXTENTS OF USABLE SHELTER AREA
2 2	TWO HOUR FIRE BARRIER WITH 90 MINUTE OPENING PROTECTIVE'S
SRS	TORNADO SHELTER ROOM SIGNAGE IN ACCORDANCE WITH ICC 500 - SECTION 508.6 & ALABAMA BUILDING COMMISSION BULLETIN JULY 29, 2010, SUBJECT: ADDITIONAL GUIDANCE ON ICC 500 REQUIREMENTS, ATTACHMENT D SHELTER LOCATION SIGNAGE
SRD	TORNADO SHELTER ROOM DIRECTIONAL SIGNAGE IN ACCORDANCE WITH ICC 500 - SECTION 508.5
SRB	TORNADO SHELTER ROOM DESIGN INFORMATION SIGNAGE IN ACCORDANCE WITH ICC 500 - SECTION 508.2 AND ALABAMA BUILDING COMMISSION BULLETIN DATED JULY 29, 2010, SUBJECT: ADDITIONAL GUIDANCE ON ICC 500 REQUIREMENTS ITEM #6 SHELTER SIGNAGE. AND ATTACHMENT C DESIGN INFORMATION SHELTER SIGNAGE.
FAK	FIRST AID KIT / NUMBER OF KITS (1 PER 200)(SEE SPECIFICATIONS) LOCATE KITS IN SHELTER PER OWNER DIRECTION
PSS	TORNADO SHELTER ROOM PERIMETER SIGNAGE SIGN INDICATION IN ACCORDANCE WITH ICC 500 - SECTION 508.7
SRI	TORNADO SHELTER ROOM IDENTIFYING SIGNAGE SIGN



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

NOTICE
DURING STORM EVENT, RELEASE MECHANICAL HOOKS LOCATED AT REAR SIDE OF DOOR(S) PRIOR TO ENTERING THE STORM SHELTER.
Keep Posted Under Penalty Of Law

SHELTER DOOR OPERATION SIGN #1
SIGN TO BE POSTED AT EACH SHELTER ENTRANCE DOOR .

NOTICE
DOOR TO REMAIN OPEN DURING STORM EVENT
Keep Posted Under Penalty Of Law

SHELTER DOOR OPERATION SIGN #2
SIGN TO BE POSTED AT ENTRANCE TO EACH CLASSROOM DOOR .

NOTICE
NOT TO BE USED DURING STORM EVENT
Keep Posted Under Penalty Of Law

SHELTER DOOR OPERATION SIGN #3
SIGN TO BE POSTED AT ALL AREAS NOT DESIGNATED AS USABLE SHELTER AREA. (SEE PLAN)

***NOTE:**
PER DCM BULLETIN #23-01:
IBC SECTION 423.5 WHERE THE GROUP E OCCUPANCY CONSISTS OF ANY ADDITION TO AN EXISTING E OCCUPANCY SITE, THE NEW ADDITION OR STAND-ALONE BUILDING SHALL BE REQUIRED TO ACCOMODATE THE OCCUPANT LOAD OF ANY SPACE ADDED TO THE EXISTING E OCCUPANCY SITE.
THE OWNER HAS INSTRUCTED THE ARCHITECT TO PROVIDE FOR THE OCCUPANT LOAD OF THE NEW ADDITION ONLY.

SHELTER OCCUPANT LOAD

TORNADO SHELTER USEABLE AREA

USEABLE TORNADO SHELTER AREA CALCULATIONS

SHELTER SPACE	SQ. FT.	USABLE REDUCTION FACTOR	USABLE SQ. FT. EACH	TOTAL USABLE SQ. FT.
CLASSROOMS (8)	807	.65	524	4192
CORRIDOR (1)		1.0	1546	1546
TOILETS (4)	50	1.0	50	200
TOTAL USABLE AREA				5938

TORNADO SHELTER OCCUPANT CAPACITY

TORNADO SHELTER WILL REQUIRE A MINIMUM OF 1 WHEEL CHAIR SPACE FOR EVERY 200 OCCUPANTS

SPACE FOR WHEEL CHAIR OCCUPANTS 6 x 10 SQ. FT. = 60 SQ. FT.

REMAINING AREA FOR NON WHEEL CHAIR OCCUPANTS 5938 - 60 = 5878

MAX. Number of STANDING OR SITTING OCCUPANTS 5878 / 5 = 1175 OCCUPANTS.

TOTAL OCCUPANTS IN TORNADO SHELTER = **1181** OCCUPANTS

EXISTING SCHOOL LOAD CALCULATIONS

TORNADO SHELTER
LOAD CALCULATIONS
GROSS AREA OF INSTRUCTIONAL
SPACE DIVIDED BY 30

INSTRUCTIONAL SPACE	AREA SQ. FT.	# OCC.	X #	TOTAL OCC. LOAD
CLASSROOMS (55)	858	29	55	1595
TOTAL STUDENT OCC. LOAD				1595
10% FOR STAFF				160
TOTAL SHELTER OCC. LOAD EXISTING				1755±

NEW ADDITION SCHOOL LOAD CALCULATIONS

TORNADO SHELTER
LOAD CALCULATIONS
GROSS AREA OF INSTRUCTIONAL
SPACE DIVIDED BY 30

INSTRUCTIONAL SPACE	AREA SQ. FT.	# OCC.	X #	TOTAL OCC. LOAD
CLASSROOMS (16)	807	27	16	432
TOTAL STUD. OCC. LOAD				432
10% FOR STAFF				44
TOTAL SHELTER. OCC. LOAD				476

PLUMBING CALCULATIONS TORNADO SHELTER

1181 OCCUPANTS

TOILET FIXTURES (TABLE 702.3) ICC 500
(2 TOILETS MINIMUM)
(1 PER 250 FOR 1ST 500 OCC.): **2** REQUIRED
\+ (1 PER ADDITIONAL 500 OCC.): **2** REQUIRED
TOTAL TOILET FIXTURES: **4** REQUIRED, **4** PROVIDED

LAVATORIES (TABLE 702.3) ICC 500
(1 PER 1,000 OCC.) **2** REQUIRED **4** PROVIDED

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: SHELTER PLAN

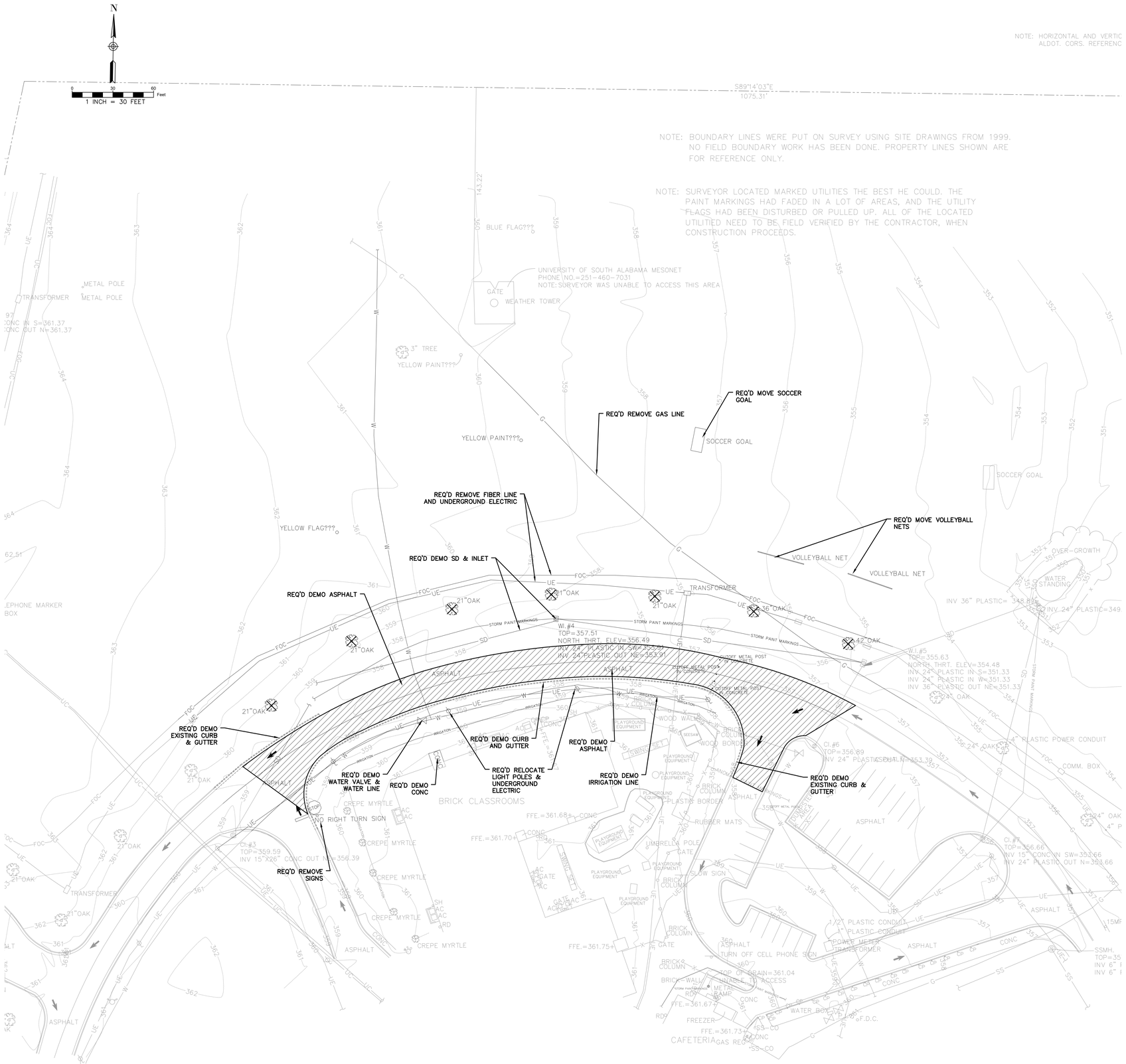
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: G1.2

0 1" 2"

- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/---G1.X Code Plans.dwg
- Tuesday, January 13, 2026 10:23:10 AM



LEGEND

DESCRIPTION	EXISTING	DEMO
BUILDING		
PROPERTY LINE		
CONCRETE		
ASPHALT PAVEMENT		
CURB & GUTTER		
SANITARY SEWER MANHOLE	S	
SANITARY SEWER LINE	SS	
GAS METER	GM	
GAS LINE	G	
STORM MANHOLE	D	
GRATE INLET		
STORM DRAIN LINE	SD	
CLEAN-OUT	CO	
WATER LINE	W	
WATER METER	WM	
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST	BP	
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE	X X	
WATER VALVE		

DEMOLITION NOTES:

1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL OF THE UNDERGROUND UTILITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES TO BE UNCOVERED AND VERIFIED AS TO THE SIZE, LOCATION, ELEVATION, AND CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
4. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS.
5. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT BY SAW CUTTING THE FULL ASPHALT DEPTH TO PROVIDE A CLEAN EDGE.

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
DEMO PLAN

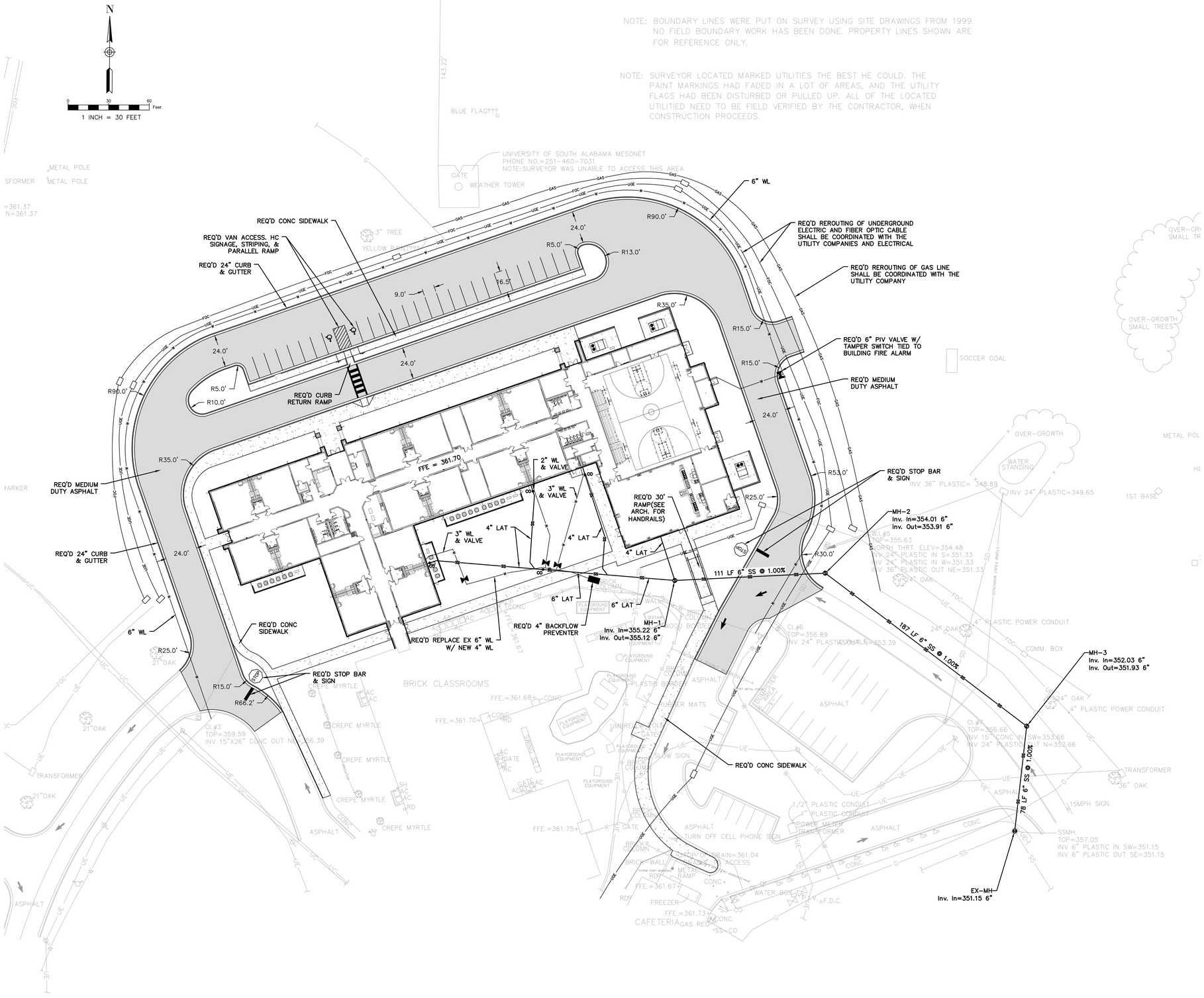
ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER TAYLOR WILSON
1/14/26

PROJ. MGR.: GTW
DRAWN: JWC
DATE: 1-14-2026
REVISIONS

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB #_25-064

JOB NO. 24-304
SHEET NO: C-1

0 1" 2"



LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING		
PROPERTY LINE		
CONCRETE		
ASPHALT PAVEMENT		
CURB & GUTTER		
SANITARY SEWER MANHOLE	Ⓢ	Ⓢ
SANITARY SEWER LINE	SS	SS
GAS METER	GM	
GAS LINE	G	G
STORM MANHOLE	Ⓓ	
GRATE INLET	□	
STORM DRAIN LINE	SD	
CLEAN-OUT	CO	● CO
WATER LINE	W	W
WATER METER	WM	
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST	BP	
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE	x x	
WATER VALVE		

SITE NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE VARIOUS UTILITY COMPANIES ON THE PLACEMENT OF THEIR CONDUITS AND SERVICES.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL INVERT ELEVATIONS, PER CENT OF GRADE, PIPE SIZES, ETC. AS THE IMPROVEMENTS ARE INSTALLED. INSTALLATIONS THAT ARE GRADE DEPENDENT (SANITARY SEWER, STORM SEWER, ETC.) TO BE LAID BEGINNING AT THE LOWEST POINT THEN PROCEEDING "UPSTREAM".

5. 4" SANITARY LATERALS SHALL BE LAID AT A MINIMUM OF 2.0%. 6" LATERALS SHALL BE LAID AT A MINIMUM OF 1.0%.

6. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND RIGHTS OF WAY. CLEAN UP IS REQUIRED DAILY.

7. SEEDING AND MULCHING OPERATIONS TO BE COORDINATED THROUGH THE OWNER AND ENGINEER. IF SAID OPERATIONS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR CARE OF SAID GRASSING UNTIL AN ACCEPTABLE STAND IS OBTAINED. RESEEDING, FERTILIZATION, ETC. TO BE DONE TO ACHIEVE ACCEPTABLE STAND OF GRASS.

8. PRICES SHALL INCLUDE ALL WORK NECESSARY FOR THE COMPLETION OF THE PROJECT. COSTS SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO PROVIDE A FINISHED PRODUCT.

9. LANE MARKINGS INCLUDING STOP BARS, STOP SIGNS, AND TRAFFIC ARROWS SHALL BE INSTALLED PER OWNER INSTRUCTION AS TO LOCATION AND DIRECTION.

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SITE & UTILITY PLAN

ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER C. TAYLOR WILSON
1/14/26

PROJ. MGR.: GTW
DRAWN: JWC
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: C-2

0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB # 25-064

SCALE
VERT: 1"=2'
HOR: 1"=20'

MH-1 TO EX-MH

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SANITARY PROFILES

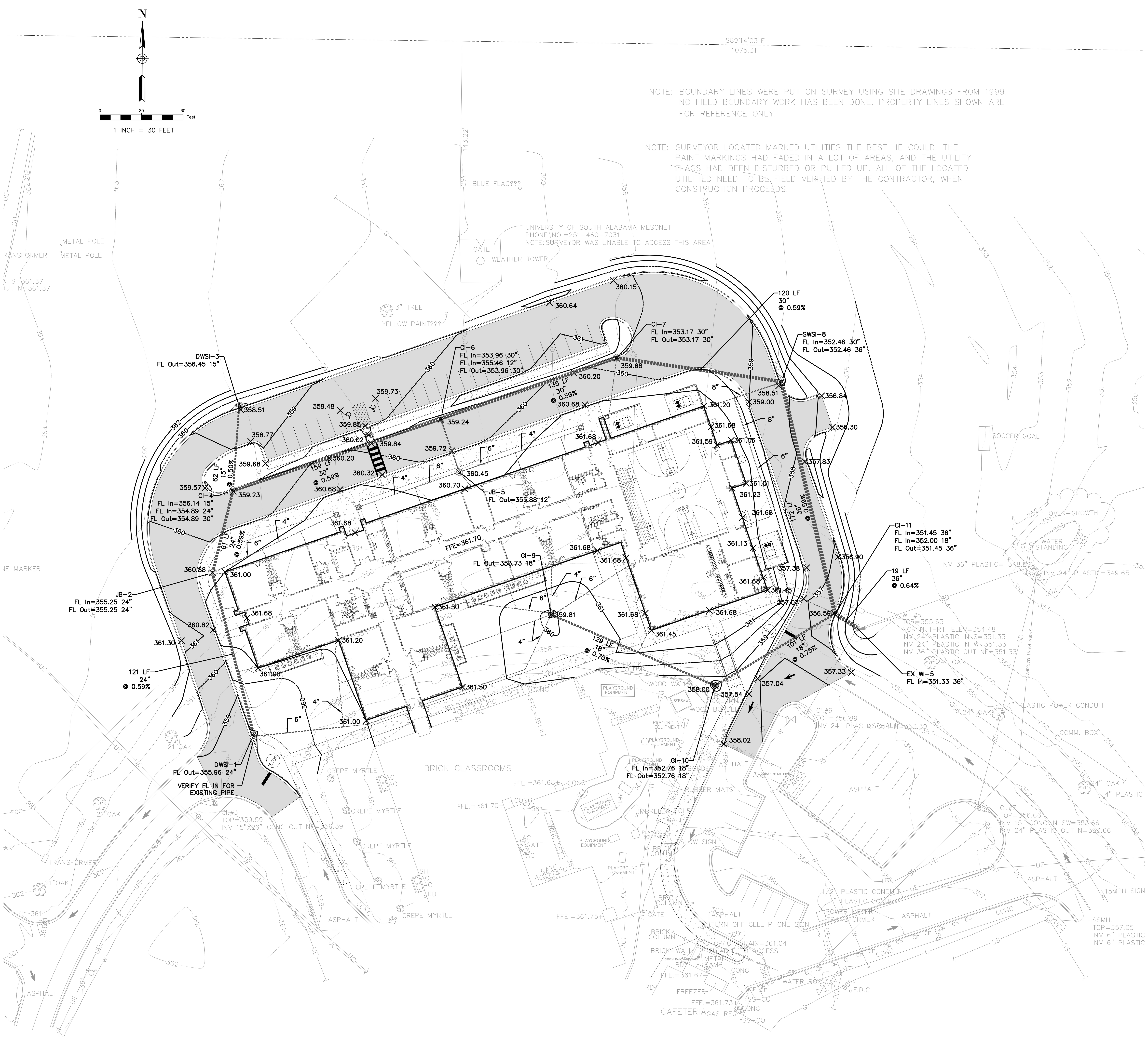
ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER C. TAYLOR WILSON
1/14/26

PROJ. MGR.: GTW
DRAWN: GTW
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: C-3

0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB #__25-064_____


N
1 INCH = 30 FEET
NOTE: BOUNDARY LINES WERE PUT ON SURVEY USING SITE DRAWINGS FROM 1999. NO FIELD BOUNDARY WORK HAS BEEN DONE. PROPERTY LINES SHOWN ARE FOR REFERENCE ONLY.
NOTE: SURVEYOR LOCATED MARKED UTILITIES THE BEST HE COULD. THE PAINT MARKINGS HAD FADED IN A LOT OF AREAS, AND THE UTILITY FLAGS HAD BEEN DISTURBED OR PULLED UP. ALL OF THE LOCATED UTILITIED NEED TO BE FIELD VERIFIED BY THE CONTRACTOR, WHEN CONSTRUCTION PROCEEDS.
UNIVERSITY OF SOUTH ALABAMA MESONET
PHONE NO.=251-460-7031
NOTE: SURVEYOR WAS UNABLE TO ACCESS THIS AREA
WEATHER TOWER
SOCCER GOAL
BRICK CLASSROOMS
CAFETERIA
DWSI-3
FL Out=356.45 15"
CI-6
FL In=353.96 30"
FL In=355.46 12"
FL Out=353.96 30"
CI-7
FL In=353.17 30"
FL Out=353.17 30"
120 LF
30"
0.59%
SWSI-8
FL In=352.46 30"
FL Out=352.46 36"
CI-4
FL In=356.14 15"
FL In=354.89 24"
FL Out=354.89 30"
JB-5
FL Out=355.88 12"
GI-9
FL Out=353.73 18"
JB-2
FL In=355.25 24"
FL Out=355.25 24"
CI-11
FL In=351.45 36"
FL In=352.00 18"
FL Out=351.45 36"
19 LF
36"
0.64%
EX WI-5
FL In=351.33 36"
DWSI-1
FL Out=355.96 24"
VERIFY FL IN FOR EXISTING PIPE
GI-10
FL In=352.76 18"
FL Out=352.76 18"
121 LF
24"
0.59%
FFE=361.70

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING		
PROPERTY LINE		
CONCRETE		
ASPHALT PAVEMENT		
CURB & GUTTER		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE	SS	
GAS METER	GM	
GAS LINE	G	
SINGLE/DOUBLE WING INLET		
COMBINATION INLET		
STORM DRAIN LINE	SD	
CLEAN-OUT	CO	
WATER LINE	W	
WATER METER	WM	
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST	BP	
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE	x x	
WATER VALVE		
MAJOR FINISHED CONTOUR	570	570
MINOR FINISHED CONTOUR	569	569
SPOT ELEVATION		X 569.0

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
GRADING & STORMWATER PLAN

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 38962 C. TAYLOR WATSON
1/14/26

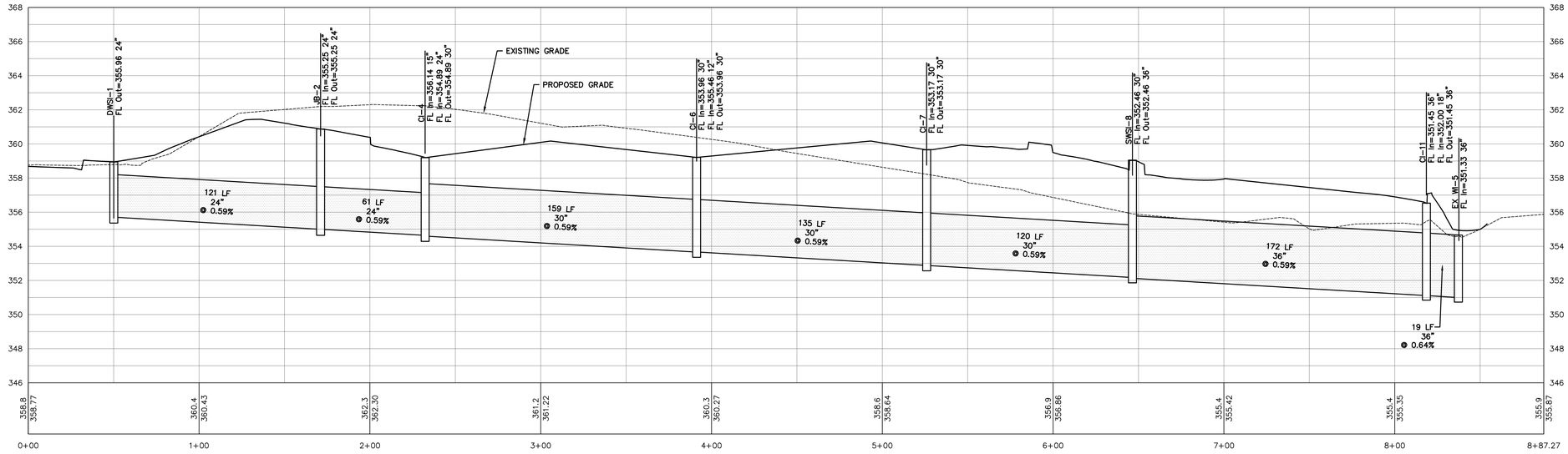
PROJ. MGR.: GTW
DRAWN: GTW
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: C-4

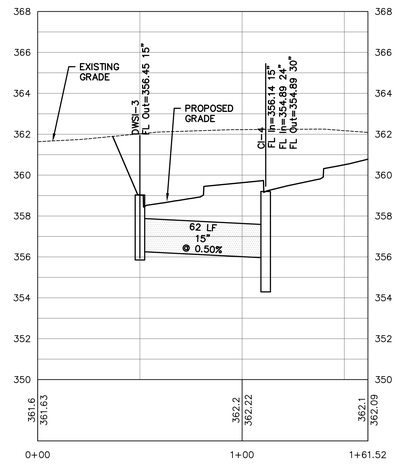
PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB # 25-064

- P:\project\25064\dwg\25-064GRADING NEW.dwg
- Tuesday, January 13, 2026 9:13:22 AM

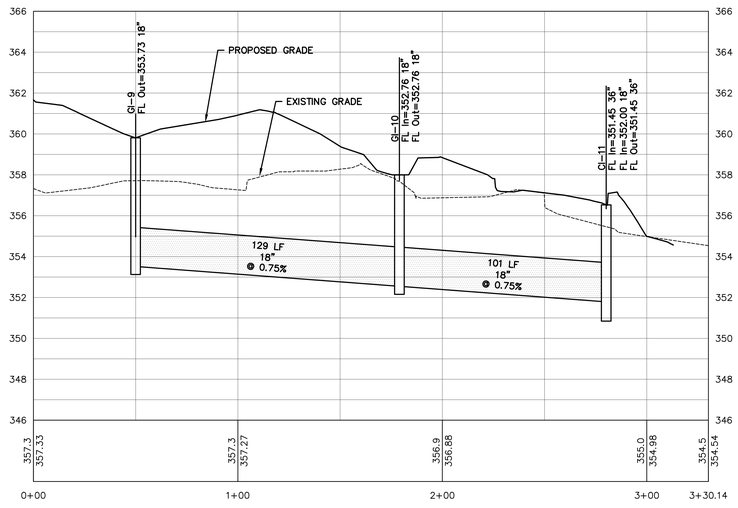
SCALE
VERT: 1"=3'
HOR: 1"=30'



DWSI-1 TO EX WI-5



DWSI-3 TO CI-4



GI-9-1 TO GI-10

LATHAN
McKEE
ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
STORMWATER PROFILES

ALABAMA LICENSED
No. 38962 PROFESSIONAL
ENGINEER
GLORIA TAYLOR WATSON
1/14/26

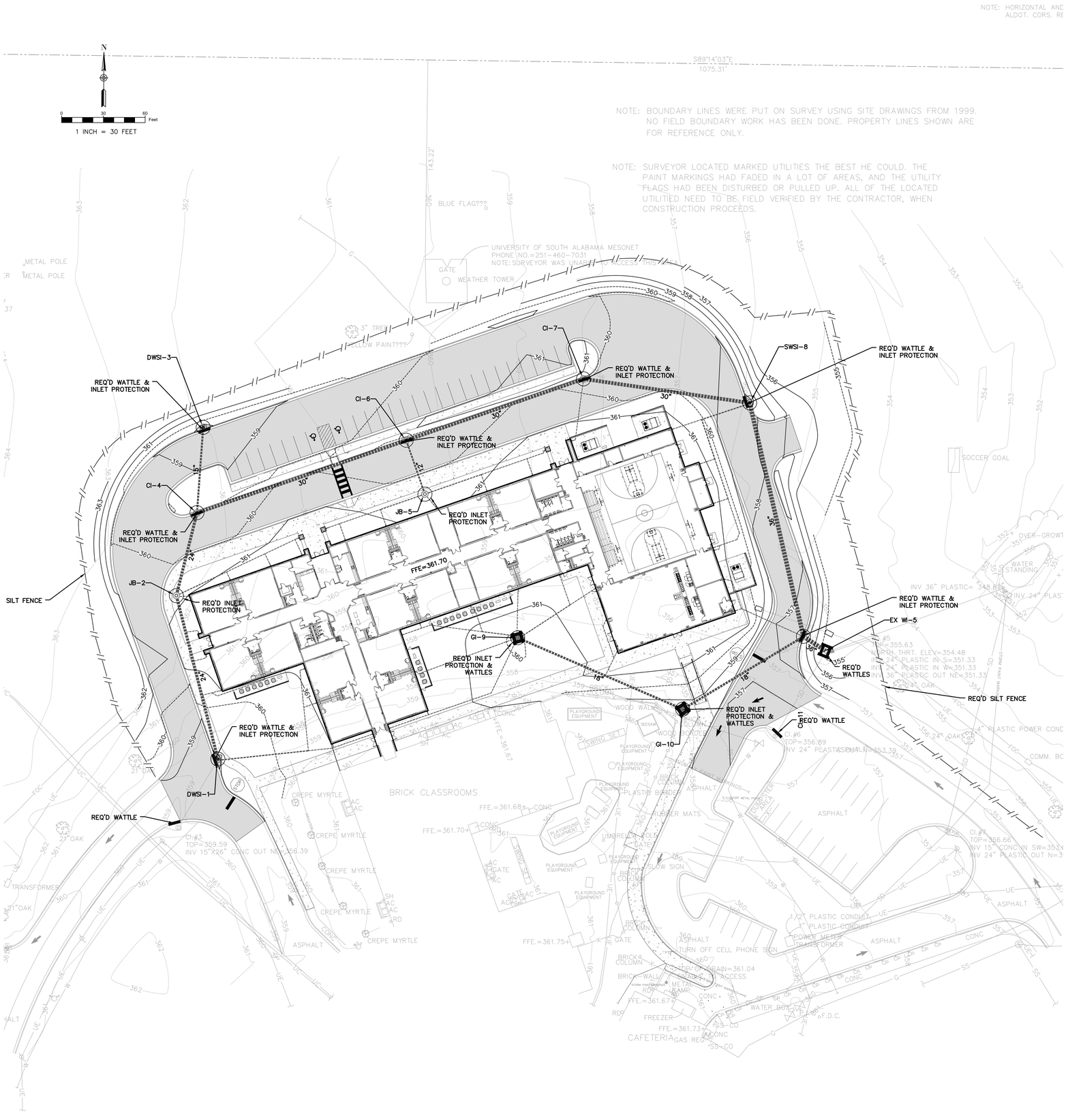
PROJ. MGR.: GTW
DRAWN: GTW
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304

SHEET NO: C-5

0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB # 25-064



LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING		
PROPERTY LINE		
CONCRETE		
ASPHALT PAVEMENT		
CURB & GUTTER		
SANITARY SEWER MANHOLE	S	
SANITARY SEWER LINE	SS	
GAS METER	GM	
GAS LINE	G	
SINGLE/DOUBLE WING INLET		
COMBINATION INLET		
STORM DRAIN LINE	SD	
CLEAN-OUT	CO	
WATER LINE	W	
WATER METER	WM	
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST	BP	
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE	x x	
WATER VALVE		
MAJOR FINISHED CONTOUR	570	570
MINOR FINISHED CONTOUR	569	569
INLET PROTECTION		
WATTLE		
SILT FENCE		

EROSION/SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION/SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH ADEM/EPA "BEST MANAGEMENT PRACTICES". MEASURES SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUMS. MAINTENANCE OF SAID MEASURES TO CONTINUE UNTIL AN ACCEPTABLE STAND OF GRASS IS OBTAINED OR THE OWNER RELEASES THE CONTRACTOR OF SAID RESPONSIBILITY.
2. THE CONTRACTOR SHALL INSTALL SILT FENCES, CHECK DAMS, INLET SEDIMENT TRAPS, AND ANY OTHER MEANS NECESSARY TO PREVENT EROSION.
3. MAINTENANCE OF SAID STRUCTURES AND/OR MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL STRUCTURES/MEASURES TO BE INSPECTED IMMEDIATELY AFTER ALL RAINFALL EVENTS. CORRECTIVE ACTION, IF REQUIRED, MUST BE TAKEN IMMEDIATELY. CONTRACTOR'S RESPONSIBILITY OF MAINTENANCE ENDS WITH FINAL ACCEPTANCE OF PROJECT.
4. ALL STORM DRAIN INLETS SHALL HAVE SILT SAVER INLET PROTECTION ALONG WITH SILT FENCE INLET PROTECTION.
5. TEMPORARY SEEDING OF DISTURBED AREAS SHOULD BE IMPLEMENTED WHENEVER DISTURBED SOIL AREAS WILL NOT BE BROUGHT TO FINISH GRADE FOR A PERIOD OF 15 CALENDAR DAYS OR LONGER.

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
EROSION CONTROL PLAN

ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER CHRISTOPHER TAYLOR WILSON
1/14/26

PROJ. MGR.: GTW
DRAWN: JWC
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: C-6

0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB #_25-064

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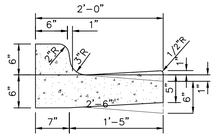
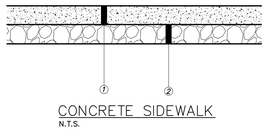
- Tuesday, January 13, 2026 9:15:31 AM



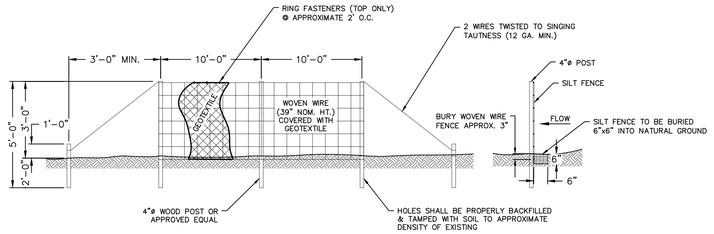
TYPICAL CONCRETE CURB & GUTTER
NTS



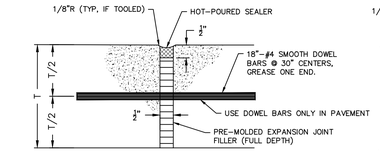
CONCRETE SIDEWALK
N.T.S.

① 4.0" 3000psi COMPRESSIVE STRENGTH CONCRETE WITH FIBER REINFORCEMENT (MINIMUM 525psi FLEXURAL STRENGTH) MAXIMUM 4" SLUMP.

② 4.00" MIN. CRUSHED STONE BASE, ALDOT SECTION 825, TYPE B (COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DENSITY).

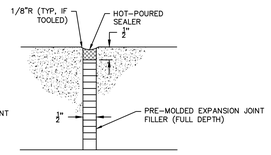


TYPE "A" SILT FENCE & INSTLLATION



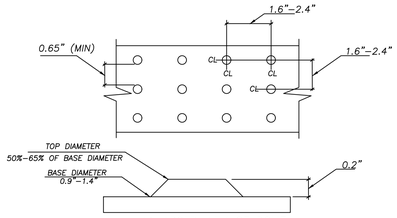
NOTE: DO NOT RUN MESH REINFORCEMENT THRU EXPANSION JOINT.

EXPANSION JOINT



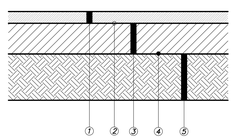
NOTE: DO NOT RUN MESH REINFORCEMENT THRU EXPANSION JOINT.

EXPANSION JOINT



ENLARGED VIEW OF DOME

DETECTABLE WARNING AT HANDICAP RAMP

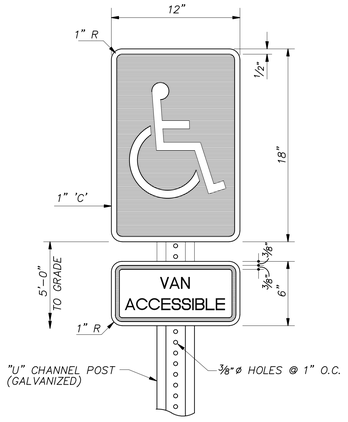


MEDIUM DUTY ASPHALT PAVING SECTION
N.T.S.

① 1.5" – ALDOT SECTION 424–A 340 BITUMINOUS WEARING SURFACE.
② 1 – ALDOT SECTION 405 BITUMINOUS TACK COAT
③ 1.5" – ALDOT SECTION 424–B 634 BITUMINOUS BINDER.
④ 1 – ALDOT SECTION 401 BITUMINOUS PRIME COAT.
⑤ 6" ALDOT 825 CRUSHED AGGREGATE BASE AND 6" OF ALDOT SECTION 230 IMPROVED ROADBED

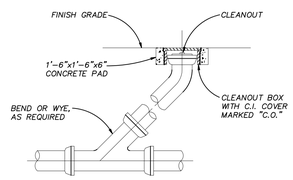
OR

① 1.5" – ALDOT SECTION 424–A 340 BITUMINOUS WEARING SURFACE.
② 1 – ALDOT SECTION 405 BITUMINOUS TACK COAT
③ 2.5" – ALDOT SECTION 424–B 636 BITUMINOUS BINDER.
④ 1 – ALDOT SECTION 401 BITUMINOUS PRIME COAT.
⑤ 6" ALDOT 821 GRANULAR SOIL BASE AND 6" OF ALDOT SECTION 230 IMPROVED ROADBED

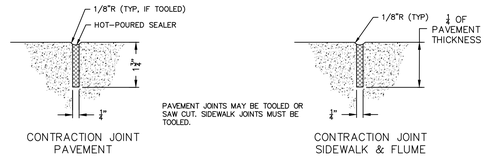


NOTE: MOUNT EACH SIGN W/ 2 – 5/16"DIA. GALV. STL. BOLTS TO 3½" (4LB./FT.) "U" CHANNEL SET 1'-6" MIN. BELOW FINISH GRADE & ENCASED IN 6"ø CONC. FILLED HOLE. SIGN SHALL BE PLACED AS NOT TO BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

HANDICAP PARKING SIGN
NTS



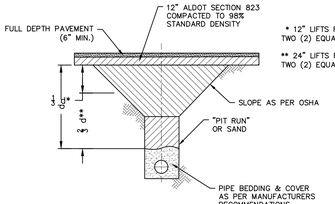
TYPICAL CLEANOUT DETAIL
N.T.S.



CONCRETE JOINT DETAILS
N.T.S.

1. EXPANSION JOINTS IN THE PAVEMENT SHALL BE A MAXIMUM WIDTH OF 30 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 10 FEET.

2. EXPANSION JOINTS IN THE SIDEWALK SHALL BE A MAXIMUM WIDTH OF 20 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 5 FEET.



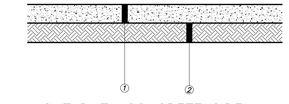
* 12" LIFTS FOR MECHANICAL COMPACTION OR TWO (2) EQUAL LIFTS FOR FLOODING METHOD.

** 24" LIFTS FOR MECHANICAL COMPACTION OR TWO (2) EQUAL LIFTS FOR FLOODING METHOD.

BACKFILL PLACEMENT

"PIT–RUN", SAND OR NATIVE MATERIAL MAY BE USED FOR BACKFILL IF SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. USE OF NATIVE SOIL, IF ALLOWED, WILL REQUIRE UNIFORM PLACEMENT OF MAXIMUM 8" LOOSE LIFTS WITH EACH LIFT APPROPRIATELY COMPACTED TO A MINIMUM 98% STANDARD DENSITY. REPRESENTATIVE DENSITY TESTING MUST BE COMPLETED FOR EACH 2' VERTICAL THICKNESS OF NATIVE SOIL FILL AT MAXIMUM 100' INTERVALS. MORE FREQUENT TESTING MAY BE WARRANTED IF INITIAL TESTING INDICATES POOR RESULTS.

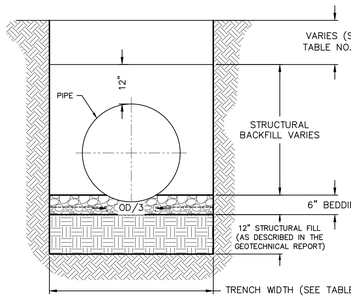
UTILITY TRENCH INSTALLATION
N.T.S. (03–11–03)



LIGHT DUTY CONCRETE SIDEWALK
N.T.S.

① 4.0" 3000psi COMPRESSIVE STRENGTH CONCRETE WITH FIBER REINFORCEMENT (MINIMUM 525psi FLEXURAL STRENGTH) MAXIMUM 4" SLUMP.

② 4.00" COMPACTED SUBGRADE FREE OF ANY ORGANIC MATERIAL



NOTES:
1. BEDDING MATERIAL & STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF AASHTO A1, A3, A2–4 OR A2–5 COMPACTED TO 95% STANDARD PROCTOR.
2. INSTALLATION: MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE NO. 1. THE MIDDLE THIRD OF THE BEDDING MATERIAL UNDER THE PIPE SHOULD BE LOOSELY PLACED. WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DENSITY PER AASHTO T–99. A MINIMUM OF 6" OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE. STRUCTURAL BACK FILL SHALL BE PLACED & COMPACTED IN LAYERS NOT EXCEEDING A 6" LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN 12" ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 95% STANDARD DENSITY PER AASHTO T–99 SHALL BE ACHIEVED. MINIMUM COVER REQUIREMENTS SHALL MEET THE REQUIREMENTS OF TABLE NO. 2.

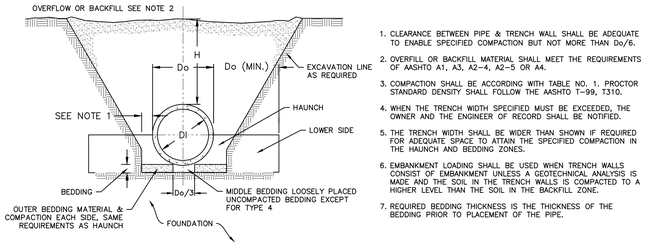
TABLE NO. 1
RECOMMENDED TRENCH WIDTH

DIAMETER	TRENCH WIDTH
12"	34"
15"	38"
18"	44"
24"	54"
30"	65"
36"	75"
42"	90"
48"	100"
54"	110"
60"	125"
66"	135"
72"	150"
84"	170"

TABLE NO. 2
RECOMMENDED COVER HEIGHT

DIAMETER	CLASS I/CLASS II (MINIMUM)	CLASS I/CLASS II (MAXIMUM)
12"–36"	24"	
42"–84"	24"	

TYPICAL TRENCH DETAIL FOR ADS PIPE AND CONTECH PIPE
N.T.S.

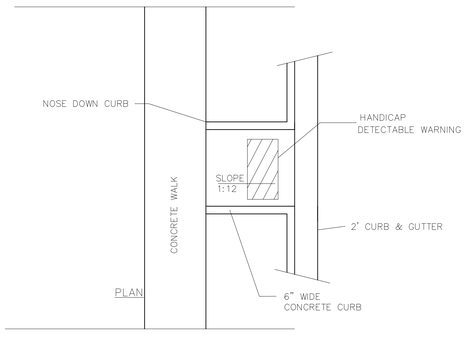


1. CLEARANCE BETWEEN PIPE & TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIED COMPACTION BUT NOT MORE THAN Do/6.
2. OVERFILL OR BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO A1, A3, A2–4, A2–5 OR A4.
3. COMPACTION SHALL BE ACCORDING WITH TABLE NO. 1, PROCTOR STANDARD DENSITY SHALL FOLLOW THE AASHTO T–99, T310.
4. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE OWNER AND THE ENGINEER OF RECORD SHALL BE NOTIFIED.
5. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
6. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS A GEOTECHNICAL ANALYSIS IS MADE AND THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
7. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO PLACEMENT OF THE PIPE.

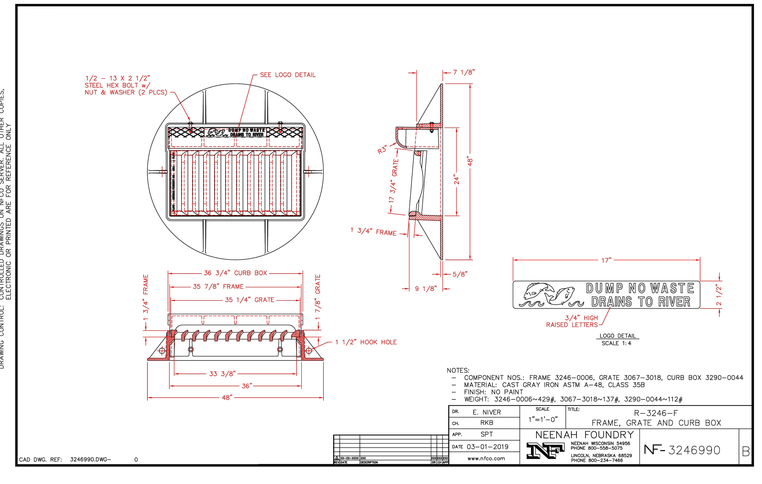
TABLE NO. 1 SOIL AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH & OUTTER BEDDING	LOWER SIDE
TYPE 1	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	95% PROCTOR STANDARD FOR SOIL A1 & A3	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% PROCTOR STANDARD FOR SOIL A2–4 & A2–5 OR EMBANKMENT TO THE SAME REQUIREMENTS
TYPE 2	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% FOR SOILS A2–4, A2–5 & A4	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% PROCTOR STANDARD FOR SOIL A1 & A3 OR 90% PROCTOR STANDARD FOR SOIL A2–4, A2–5 & A4 OR EMBANKMENT TO THE SAME REQUIREMENTS

TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE
N.T.S.



TYPICAL CURB RETURN RAMP W/ DETECTABLE WARNING DETAILS



NOTES:
– COMPONENT NOS.: FRAME 3246–0006, GRATE 3067–3018, CURB BOX 3290–0044
– MATERIAL: CAST GRAY IRON ASTM A–48, CLASS 35B
– FINISH: NO PAINT
– WEIGHT: 3246–0006–429#, 3067–3018–137#, 3290–0044–112#

DR. E. NIVER	SCALE 1"=1'–0"	TITLE: R–3246–F FRAME, GRATE AND CURB BOX	
CH. RKB			
APP. SPT		NEENAH FOUNDRY	
DATE 03–01–2019		NEENAH, WISCONSIN 54956 PHONE 800–558–5075	NF– 3246990 B
www.nfco.com		OMAHA, NEBRASKA 68029 PHONE 800–224–7466	

CAD DWG. REF: 3246990.DWG– 0

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: DETAILS

ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER CHRISTOPHER TAYLOR WATSON
1/14/26

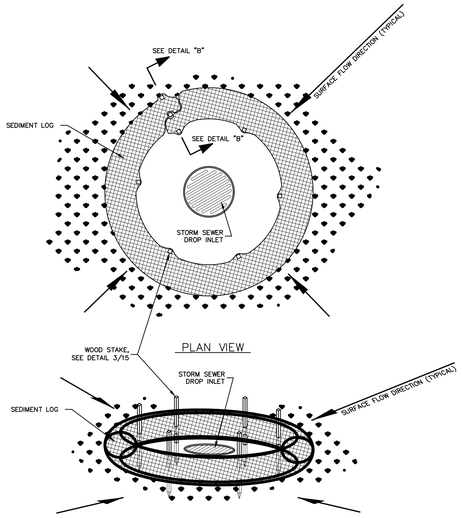
PROJ. MGR.: GTW
DRAWN: JWC
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: C-7

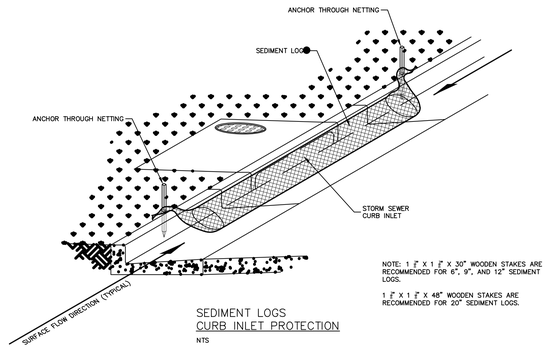
0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262–7307
Fax: (334) 262–7309
PEC JOB #_25–064

- P:\project\250064\dwg\25-064DETAILS NEW.dwg
- Tuesday, January 13, 2026 9:16:24 AM



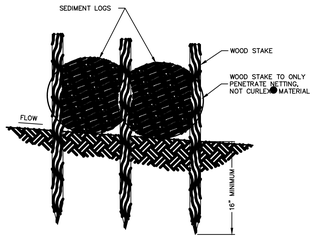
SEDIMENT LOGS
DROP INLET PROTECTION
NTS



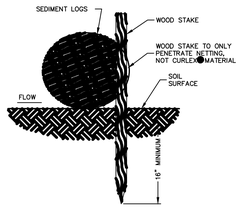
NOTE: 1 ⅄ X 1 ⅄ X 30" WOODEN STAKES ARE RECOMMENDED FOR 6", 9", AND 12" SEDIMENT LOGS.

1 ⅄ X 1 ⅄ X 48" WOODEN STAKES ARE RECOMMENDED FOR 20" SEDIMENT LOGS.

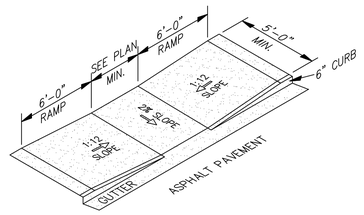
SEDIMENT LOGS
CURB INLET PROTECTION
NTS



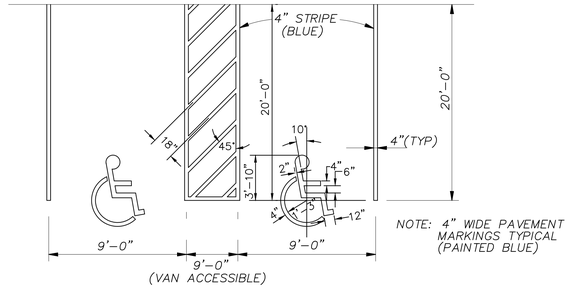
STAKE DETAIL "B"
NTS



STAKE DETAIL "A"
NTS

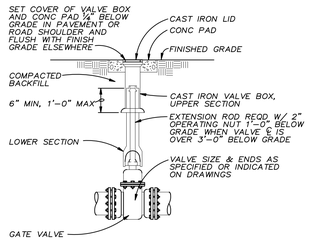


HANDICAP RAMP DETAILS
NTS

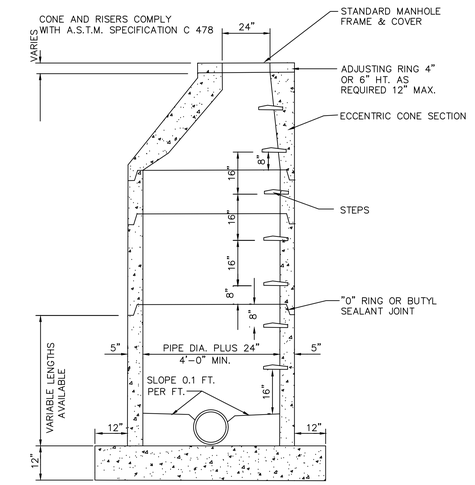


NOTE: 4" WIDE PAVEMENT MARKINGS TYPICAL (PAINTED BLUE)

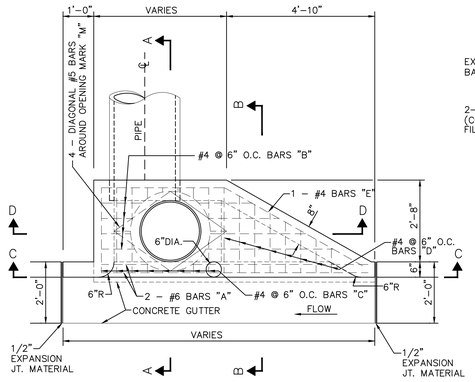
HANDICAP PARKING STRIPAGE
NTS



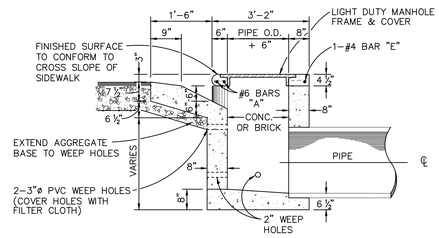
BURIED GATE VALVE BOX SETTING
N.T.S.



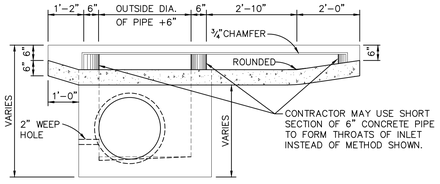
PRECAST CONCRETE MANHOLE
NTS



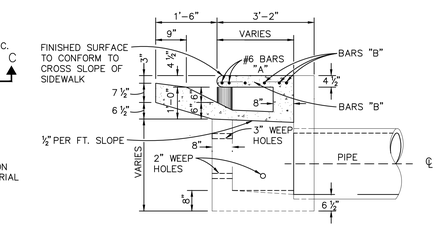
PLAN-CURB INLET
NTS



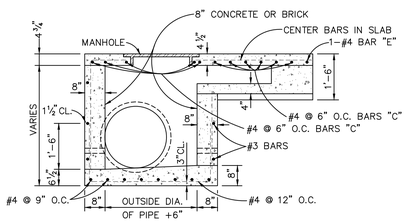
SECTION A-A
NTS



SECTION C-C
NTS

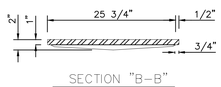


SECTION B-B
NTS

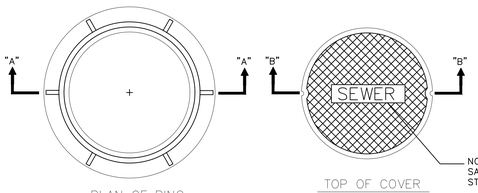


SECTION D-D
NTS

TYPE 'S' CURB INLET DETAILS

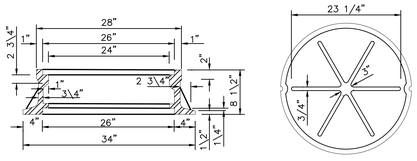


SECTION "B-B"



PLAN OF RING

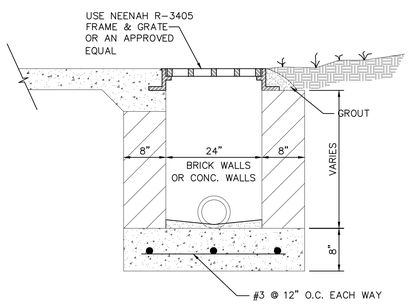
TOP OF COVER



SECTION "A-A"

BOTTOM OF COVER

STANDARD MANHOLE COVER & RING
NTS



GRATE INLET
NTS

LATHAN
McKEE
ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
DETAILS

ALABAMA LICENSED No. 38962 PROFESSIONAL ENGINEER JAMES WILSON WATSON
1/14/26

PROJ. MGR.: GTW
DRAWN: JWC
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304

SHEET NO: C-8

0 1" 2"

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309
PEC JOB #__25-064__

EXISTING CONDITIONS AND COORDINATION:
1. PROJECT PLANS HAVE BEEN DEVELOPED FROM A VISUAL EXAMINATION (WHERE APPLICABLE) OF THE EXISTING BUILDING AND/OR PROJECT PLANS PROVIDED BY THE ARCHITECT OR PROJECT MANAGER. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS RELATED TO EXISTING CONSTRUCTION AND CONDITIONS AND MAKE MINOR ADJUSTMENTS AS REQUIRED. REPORT SIGNIFICANT DIFFERENCES TO ARCHITECT/ENGINEER.
2. SEE ARCHITECTURAL PLANS FOR ALL DIMENSIONS NOT SHOWN.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PROJECT DRAWINGS AND SPECIFICATIONS INCLUDING THESE STRUCTURAL DRAWINGS.
4. APPLICABLE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO PRODUCTION.
5. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / SE OR OF ANY POTENTIAL OR DISCOVERED CONFLICTS, OMISSIONS OR DISCREPANCIES IN THE CONTRACT DRAWINGS OF OR RELATED TO THE STRUCTURAL DESIGN OF THE BUILDING PRIOR TO PROCEEDING.
7. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR PROVIDING DESIGN OR COORDINATING OTHER ENGINEERING DISCIPLINES, ARCHITECTURAL DETAILING, ADA COMPLIANCE, OR ANY OTHER NON-STRUCTURAL CODES OR STANDARDS. EVERY EFFORT HAS BEEN MADE TO ACCOMMODATE AND COORDINATE THESE ITEMS, BUT FINAL COORDINATION AND COMPLIANCE IS THE RESPONSIBILITY OF THE ARCHITECT, PROJECT MANAGER, OR OWNER AS IS APPLICABLE FOR THE PROJECT.

STATEMENT OF SPECIAL INSPECTIONS
SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH SECTION 17 OF THE REFERENCED EDITION OF THE IBC. THE MATERIAL, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS ARE INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.THE TYPE OF EACH SPECIAL INSPECTION OR TEST IS NOTED IN THE SPECIAL INSPECTION SCHEDULE. THE FREQUENCY OF THE SPECIAL INSPECTION (PERIODIC / CONTINUOUS) IS NOTED WITH THE SPECIAL INSPECTION SCHEDULE.
1. THE SEOR IS NOT RESPONSIBLE FOR PERFORMING THE SPECIAL INSPECTIONS ON THIS PROJECT. A QUALIFIED INSPECTOR SHALL BE REQUIRED IN ACCORDANCE WITH IBC 1704.2.1.
2. ANY ADDITIONAL STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH IBC 1704.6 ARE NOTED ON THESE DRAWINGS.

GEOTECHNICAL INFORMATION
2. THE FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE REPORT OF GEOTECHNICAL SUBSURFACE INVESTIGATION BY UES DATED DECEMBER 24, 2025 (UES JOB NO. A25114.00571.000). FOR THE PURPOSE OF THESE STRUCTURAL DRAWINGS, SELECT INFORMATION HAS BEEN EXTRACTED FROM THE REFERENCED GEOTECHNICAL REPORT AND NOTED BELOW; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, READ, AND FOLLOW ALL RECOMMENDATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL VERIFY THE CAPABILITY OF THE SOIL STRATA TO SUPPORT FOUNDATIONS PRIOR TO CASTING THE FOUNDATION.
4. THE FOUNDATION SHALL EXTEND TO A MINIMUM OF THE FROST PENETRATION DEPTH, TO A DEPTH WHERE SOIL MOISTURE CONTENT DOES NOT FLUCTUATE, A MINIMUM DEPTH OF 24" INTO ORIGINAL SOIL OR A MINIMUM DEPTH TO ACHIEVE THE BELOW NOTED BEARING CAPACITY (WHICHEVER IS GREATER).
5. NOTIFY THE ENGINEER SHOULD ANY UNUSUAL SOIL CONDITIONS BE ENCOUNTERED.

FOUNDATIONS:
1. THE "CONTROLLED AREA" SHALL EXTEND 10' FEET BEYOND THE BUILDING AREA. THE "CONTROLLED AREA" SHALL BE COMPLETELY STRIPPED AND ALL SURFACE VEGETATION, ORGANIC FILL OR TOPSOIL, DEBRIS AND ANY OTHER
2. THE SUBGRADE ELEVATIONS SHALL BE ESTABLISHED BY CONSTRUCTION OF AN ENGINEERED FILL USING SUITABLE FILL EARTH AND PLACED IN LIFTS NOT TO EXCEED 8". THE SUBGRADE SHALL BE DENSIFIED TO 98% (MIN.) STANDARD DENSITY (ASTM D-698A). VERIFYING IN-PLACE DENSITY TESTS ARE REQUIRED.
3. THE CONTRACTOR SHALL DE-WATER THE AREA OF THE BUILDING FOOTPRINT AS REQUIRED TO PREVENT PONDING OF WATER IN THE FOOTING TRENCHES AND SLAB AREAS DURING EXCAVATION AND PRIOR TO CASTING FOOTINGS.
4. ASSUMED BEARING CAPACITY AS LISTED BELOW SHALL BE VERIFIED PRIOR TO CASTING FOOTINGS.
5. FOUNDATION DESIGN PARAMETERS:
   5.1. ALLOWABLE BEARING CAPACITY CONTINUOUS SPREAD FOOTING ---------- 1500 PSF
   5.2. ALLOWABLE BEARING CAPACITY ISOLATED SPREAD FOOTING ---------- 2000 PSF
   5.3. MINIMUM PERIMETER FOOTING BEARING DEPTH BELOW OUTSIDE FINISH GRADE -------- 24"
   5.4. MINIMUM INTERIOR FOOTING BEARING DEPTH BELOW FINISH FLOOR ELEVATION -------- 12"

CONCRETE:
1. CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318).
2. CONCRETE SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH (f'c) AT 28 DAYS BASED UPON ITS USE:
   2.1. FOOTINGS ---------- 3000 PSI (MIN.)
   2.2. SLAB ON GRADE ---------- 3000 PSI (MIN.)
   2.3. COLUMNS, BEAMS ---------- 4000 PSI (MIN.)
   2.4. ELEVATED SLABS ---------- 4000 PSI (MIN.)
   2.5. RETAINING WALLS ---------- 4000 PSI (MIN.)
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.
4. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A1064.
   4.1. SLABS ON GRADE SHALL BE REINFORCED AS INDICATED ON PLANS W.W.F. PLACED AT 1/3 SLAB THICKNESS FROM TOP.
   4.2. W.W.F. SHALL BE SUPPORTED ON PLASTIC CHAIRS OR CEMENTIOUS BLOCKS AT THE CORRECT HEIGHT AS NOTED ABOVE AND AS SHOWN IN DETAILS.
5. CAST IN PLACE ANCHOR RODS SHALL CONFORM TO ASTM F 1554 GR. 36.
6. MINIMUM CONCRETE COVER, (UNLESS OTHERWISE NOTED ON DRAWINGS) FOR REINFORCING SHALL BE:
   6.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH -------- 3 IN.
   6.2. EXPOSED TO EARTH OR WEATHER ---------- 2 IN.
   6.3. BEAMS AND COLUMNS ---------- $1\frac{1}{2}$ IN.
7. LAP ALL CONTINUOUS REINFORCEMENT WITH A CLASS B LAP SPLICE AS SPECIFIED IN LAP SPLICE SCHEDULE.
8. AT EXTERIOR BUILDING CORNERS FOOTINGS, PROVIDE 3'-0" X 3'-0" CORNER BARS, SAME SIZE AND NUMBER AS DETAILED HORIZONTAL BARS.
9. DOWEL ALL FOOTINGS WHERE THEY ABUT WITH SAME REINFORCEMENT AS DETAILED HORIZONTALLY AND WITH 2'-0" MINIMUM LAP.
10. CAST IN PLACE CONCRETE WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION . TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
11. SUBMITTALS
12. CONCRETE MIX DESIGNS
   12.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318 (LATEST EDITIONS) PRIOR TO COMMENCEMENT OF CONCRETE WORK.
   12.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO SCHEDULING CONCRETE DELIVERY TO JOB SITE.
13. REINFORCEMENT SUBMITTALS
   13.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) AND SHOW, AT MINIMUM, ALL SIZES, DIMENSIONS, LOCATIONS OF ALL REINFORCEMENT AND EMBEDMENTS.
   13.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO FABRICATING REINFORCEMENT.

MASONRY:
1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOADBEARING CONFORMING TO ASTM C 90 ALL LOCATIONS.
2. MORTAR SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C270.
3. GROUT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476.
4. TYPE M OR S FOR BELOW GROUND LEVEL AND EITHER TYPE N OR S FOR ABOVE GROUND CONFORMING TO ASTM C-270.
   4.3. MINIMUM INDIVIDUAL NET AREA COMPRESSIVE STRENGTH OF SINGLE CMU---------- 2000 PSI
   4.4. MINIMUM DESIGN STRENGTH OF MASONRY (f'_m)---------- 2000 PSI
   4.5. GROUT COMPRESSIVE STRENGTH ---------- 3000 PSI
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE FABRICATED WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CROSSRODS SPACED NOT MORE THAN 16" O.C. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF SINGLE AND MULTIPLE WIDTH UNIT WALLS.
6. FILLED CELLS INDICATED ON PLAN SHALL BE FILLED WITH GROUT IN LIFTS OF 48" (MAX). TERMINATE LIFT 1-1/2" BELOW BED JOINT TO CREATE SHEAR KEY TO NEXT LIFT.
7. STARTER DOWELS AND EACH ADDITIONAL VERTICAL BAR SHALL BE TIED IN ACCORDANCE WITH TMS SPECIFICATIONS AND LAPPED PER CMU LAP SCHEDULE.
8. "WET SETTING" DOWELS SHALL NOT BE ALLOWED.
9. MASONRY WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION. TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. MASONRY CONTROL JOINTS (M.C.J.) SHALL BE REQUIRED WITH SPACING SHOWN ON ARCHITECTURAL PLAN, MAXIMUM SPACING OF 25' OR 3 TIMES WALL HEIGHT ALONG WALL LENGTH AND 12'-0" MAX FROM WALL CORNERS. CONSTRUCT AS SHOWN ON MASONRY CONTROL JOINT DETAIL ON STRUCTURAL DRAWINGS.

STRUCTURAL STEEL
1. W-SECTION SHAPES SHALL CONFORM TO ASTM A992.
2. RECTANGULAR HSS SHALL CONFORM TO ASTM A500 GR. C.
3. ROUND HSS SHALL CONFORM TO ASTM A500 GR. C.
4. STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL CONFORM TO ASTM A36.
5. BOLTS SHALL BE ASTM A-325X.
6. NUTS SHALL BE ASTM A563.
7. WASHERS SHALL BE ASTM F436.
8. STEEL HEADED STUDS SHALL BE ASTM A108.
9. DETAIL, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST AISC STANDARDS AND SPECIFICATIONS.
10. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION)
11. ELECTRODES SHALL BE E70XX.
12. UNLESS OTHERWISE NOTED OR DETAILED, ALL SHEAR CONNECTIONS SHALL BE DESIGNED USING THE APPROPRIATE DATA FROM PART 10 -"DESIGN OF SIMPLE SHEAR CONNECTIONS" FROM THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. DESIGN END REACTION IS 60% OF TOTAL ALLOWABLE LOAD (60% x Wc) FROM THE ALLOWABLE LOAD OF BEAM TABLE FROM PART 9 - "DESIGN OF CONNECTING ELEMENTS" OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

STEEL DECK:
1. TYPICAL ROOF DECK
   1.1. STEEL ROOF DECK SHALL BE 22 GAUGE, TYPE "B" (WIDE RIB) CORRUGATED DECK WHERE INDICATED ON THE ROOF PLAN, WITH THE FOLLOWING MINIMUM PROPERTIES:
      1.1.1. MOMENT OF INERTIA, POSITIVE (Ip): 0.155 in^4/ft
      1.1.2. MOMENT OF INERTIA, NEGATIVE (In): 0.183 in^4/ft
      1.1.3. SECTION MODULUS, POSITIVE (Sp): 0.186 in^3/ft
      1.1.4. SECTION MODULUS, NEGATIVE (Sn): 0.192 in^3/ft
   1.2. THE ROOF DECK SHALL BE INSTALLED AND ANCHORED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND/OR AS INDICATED IN FASTENING PATTERN SCHEDULE ON THESE DRAWINGS (WHICHEVER IS MORE STRINGENT).

PRECAST HOLLOW CORE SLABS
1. ALL PRESTRESSED HOLLOWCORE CONCRETE PRODUCTS SHALL BE DESIGNED TO SUPPORT ALL COMBINATIONS OF THE DEAD AND LIVE LOAD INDICATED ON THE PLANS. DESIGN SHALL BE IN ACCORDANCE WITH ACI 318 (LATEST EDITION).
2. ALL PRESTRESSED CONCRETE DESIGN SHALL BE ACCOMPLISHED BY, OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA, WHO HAS HAD A MINIMUM OF FIVE YEARS RESPONSIBLE EXPERIENCE IN PRESTRESSED CONCRETE DESIGN. THE ENGINEER SHALL AFFIX HIS/HER SIGNATURE AND SEAL TO ALL DESIGN CALCULATIONS AND SHOP DRAWINGS CERTIFYING THAT ALL PRESTRESSED CONCRETE PRODUCTS HAVE BEEN DESIGNED TO MEET THIS SPECIFICATION AND ALL LOAD CRITERIA SHOWN ON THE PLANS.
3. THE PRECAST DESIGNER SHALL SUBMIT COMPLETE SHOP DRAWINGS INDICATING ALL RELEVANT CONSTRUCTION DETAILS AND DESIGN CALCULATIONS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.
4. ALL CONNECTION, BEARING, AND FITTING DETAILS SHOWN ON THE PLANS INDICATE THE DESIGN INTENT. THE PRESTRESSED CONCRETE MANUFACTURER MAY BE PERMITTED TO MODIFY THESE DETAILS IF SUCH MODIFICATIONS WILL BE EQUALLY OR MORE EFFICIENT, MORE CONSISTENT WITH LATEST RECOMMENDED PRACTICES OF THE PRESTRESSED CONCRETE INSTITUTE, AND NO MORE COSTLY. SUCH MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.
5. ALL PRESTRESSED CONCRETE PRODUCTS SHALL BE DESIGNED WITH AT LEAST SUFFICIENT CAMBER TO PROPERLY OFFSET DEFLECTION UNDER FULL SUPERIMPOSED DEAD LOADS. THE ANTICIPATED CAMBER SHALL BE COMPUTED BY THE PRESTRESSED CONCRETE MANUFACTURER. DESIGN CAMBER IN INCHES UNDER FULL DEAD LOAD SHOULD NOT EXCEED SPAN(INCHES)/360. RESIDUAL CAMBER SHALL NOT VARY FROM THE DESIGN CAMBER MORE THAN 1/8" PER 10' OF MEMBER LENGTH WITH A MAXIMUM VARIANCE OF 1/2". DIFFERENTIAL CAMBER BETWEEN ADJACENT MEMBERS IN THE FINAL ERECTED POSITION SHOULD NOT EXCEED TOLERANCES AS DEFINED IN PCI MNL-116 MANUAL FOR QUALITY CONTROL.
6. TOPPING: HOLLOWCORE PLANKS SHALL BE THOROUGHLY CLEANED AND WET, PRIOR TO CASTING TOPPING TO INSURE ADEQUATE BOND STRENGTH. STRUCTURAL TOPPING SHALL BE OF 4000 PSI, 28 DAY STRENGTH CONCRETE. THE THICKNESS OF THE TOPPING SHALL BE A MINIMUM OF 4 IN. THROUGHOUT THE ENTIRE ROOF WITH #4 @ 12" O.C. EA. WAY CENTERED IN TOPPING SLAB.
7. USE AND TYPE OF BEARING PADS SHALL BE AS DIRECTED BY THE PRECAST SUPPLIER.
8. GROUTING: ALL JOINTS BETWEEN SLABS SHALL BE FULLY PACKED WITH A STIFF GROUT CONSISTING OF 1 PART PORTLAND CEMENT TO 3 PARTS CLEAN SAND. THE GROUTED DECK SHALL BE ALLOWED TO CURE OVERNIGHT BEFORE REMOVING ANY LEVELING SHORES, CUTTING ANY HOLES, RESTRAINING ENDS, OR APPLYING ANY FURTHER CONSTRUCTION.

DELEGATED STEEL STAIR AND HANDRAIL DESIGN
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DESIGN OF THE PRE-FABRICATED STAIRS, SHIP LADDERS, LANDINGS, TREADS, AND HANDRAILS WITH AN APPROVED STEEL FABRICATOR. THE FABRICATOR SHALL DESIGN AND DETAIL ALL RELEVANT MEMBERS AND CONNECTIONS .
2. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND DRAWING CALCULATIONS PRIOR TO FABRICATION. THE CALCULATIONS SHALL BEAR THE SEAL OF REGISTERED PROFESSIONAL ENGINEER OF THE STATE OF PROJECT.

SHEATHING
1. ROOF SHEATHING SHALL BE 5/8" NOMINAL THICK APA RATED SHEATHING WITH A MINIMUM SPAN RATING OF 32/16. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS FOR THE GIVEN EXPOSURE AND WIND SPEED OR AS INDICATED IN THESE DRAWINGS, WHICHEVER IS MORE STRINGENT.
2. WALL SHEATHING SHALL BE 15/32" INCH WOOD STRUCTURAL PANELS. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS FOR THE GIVEN EXPOSURE AND WIND SPEED OR AS INDICATED IN THESE DRAWINGS, WHICHEVER IS MORE STRINGENT. NOTE NAILING PATTERNS AT SHEAR WALLS. THE STRUCTURAL SHEATHING SHALL BE FOR THE FULL WALL HEIGHT, AND WHERE OPENINGS OCCUR, THE WALL SHALL BE ENTIRELY SHEATHED INCLUDING AREAS ABOVE AND BELOW THE OPENINGS. FOR TWO OR MORE STORIES, SHEATHING SHALL BE CONTINUOUS FOR 1'-0" ABOVE AN BELOW THE FLOOR PLATE.
3. FLOOR SHEATHING SHALL BE 3/4" NOMINAL THICK APA RATED SHEATHING WITH A MINIMUM SPAN RATING OF 48/24. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS OR AS INDICATED IN THE DRAWINGS ,WHICHEVER IS MORE STRINGENT. WHERE PROJECT SPECIFICATIONS OR JOIST MANUFACTURER DIRECT, AN FLOOR SHEATHING TO JOIST ADHESIVE SHALL BE USED.

COLD-FORM METAL FRAMING
1. CFMF SHALL BE DESIGNED ACCORDING TO THE AMERICAN IRON AND STEEL INSTITUTE (AISI) S100 (LATEST EDITION).
2. ALL STRUCTURAL LOADBEARING MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH Fy = 40 KSI FOR S STUDS GRADE A, 33 KSI FOR T TRACK. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING REQUIREMENTS FOR ASTM A525.
3. MEMBERS SHALL BE INSTALLED LEVEL AND TRUE IN A WORKMANLIKE MANNER. INSTALL STRAPPING AND ACCESSORIES AS DETAILED AND AS REQUIRED FOR PROPER INSTALLATION.
4. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE MANUFACTURER SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS.

PRE-ENGINEERED CFS ROOF TRUSSES
1. UNLESS OTHERWISE NOTED, THE PROJECT SHALL FOLLOW AISI CODE OF STANDARD PRACTICE FOR COLD-FORMED STRUCTURAL FRAMING, LATEST EDITION.
2. ALL PREFABRICATED METAL TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS, DEAD LOADS, AND CONCENTRATED LOADS. LATERAL BRACING (DIAGONAL AND LATERAL BRIDGING), BOTH TEMPORARY AND PERMANENT, SHALL BE DESIGNED, PROVIDED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.TEMPORARY BRACING SHALL REMAIN UNTIL PERMANENT BRACING AND THE ROOF DECK ARE COMPLETELY INSTALLED.
3. PROVIDE EAVE BRACING DETAILS, ETC. AS REQUIRED TO INSURE PLUMB, LEVEL STRUCTURAL BASE FOR EAVE TRIM AND CORNICE. NO TWISTING OR WARPING OF TRUSS ENDS WILL BE ACCEPTED PRIOR TO INSTALLATION OF CORNICE AND TRIM.
4. ALL TRUSSES SHALL BE DESIGNED AND ANCHORED TO WITHSTAND THE NOTED WIND LOADS. THE ROOF TRUSSES SHALL BE DESIGNED AND ANCHORED FOR THE FOLLOWING LOADS:
   4.1. TOP CHORD LIVE LOAD ---------- 20 PSF
   4.2. TOP CHORD DEAD LOAD ---------- 10 PSF
   4.3. BOTTOM CHORD LIVE LOAD ---------- 0 EXCEPT WHERE INDICATED FOR MEZZANINE
   4.4. BOTTOM CHORD DEAD LOAD ---------- 10 PSF
   4.5. MECHANICAL MEZZANINE ---------- 50 PSF
5. VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT/ENGINEER OF ANY REQUIRED MODIFICATIONS.
6. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL OF THE DESIGN ENGINEER.

PRE-ENGINEERED METAL BUILDING (PEMB)
1. PRE-ENGINEERED METAL BUILDING FOOTING SIZES ARE BASED UPON ESTIMATED BASE PLATE REACTIONS. FOOTING SIZED MAY REQUIRE SMALL CHANGES ONCE THE FINAL METAL BUILDING BASE PLATE REACTIONS ARE PROVIDED. CONTRACTOR SHALL NOT FABRICATE REBAR OR CAST METAL BUILDING FOOTINGS UNTIL THE STRUCTURAL ENGINEER OF RECORD HAS APPROVED THE PRE-ENGINEERED METAL BUILDING BASE PLATE REACTIONS.
2. ANCHOR ROD DIAMETERS SHALL BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING DESIGNER. THE LENGTH OF THE HEADED ANCHOR RODS WILL BE SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD ONCE THE FINAL BASE PLATE REACTIONS ARE PROVIDED TO THE ENGINEER.
3. PRE-ENGINEERED METAL BUILDING BASE PLATES ARE SHOWN ON THE STRUCTURAL FOUNDATION DRAWINGS FOR SCHEMATIC PURPOSES ONLY AND ARE NOT INTENDED FOR FIELD LAYOUT OF THE METAL BUILDING ANCHOR RODS. METAL BUILDING ANCHOR RODS SHALL BE LOCATED BASED UPON DRAWINGS PROVIDED BY THE METAL BUILDING MANUFACTURER ONLY.
4. THE PEMB SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE RECOMMENDED DESIGN PRACTICES MANUAL OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA) AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE PRE-ENGINEERED METAL BUILDING SUPPLIER SHALL BE A MEMBER OF AISC-MB CLASS.
5. THE PEMB SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING ENVELOPE AND FOR ALL LATERAL BRACING FOR ALL COMBINATIONS OF LIVE, DEAD COLLATERAL AND WIND LOADS.
6. THE MINIMUM LIVE LOADS, COLLATERAL LOADS AND WIND LOADS TO BE USED IN DESIGN OF THE PEMB ARE LISTED BELOW.
7. THE PEMB SUPPLIER SHALL DESIGN THE METAL BUILDING COLUMNS FOR WIND BEAM REACTIONS NOTED ON THE PLANS. TYPICAL CONNECTION DETAIL IS WITHIN THESE DRAWINGS, BUT FINAL COORDINATION SHALL MADE ON THE SHOP DRAWINGS PRIOR TO FABRICATION.
8. THE PEMB SUPPLIER SHALL DESIGN BUILDING FOR ALL SPECIFICALLY IDENTIFIED COMPONENTS THAT ARE TO BE SUPPORTED BY THE PEMB. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL HVAC EQUIPMENT, PLUMBING COMPONENTS, ELECTRICAL EQUIPMENT, AUDIO/VISUAL EQUIPMENT, AND BASKETBALL GOALS.
9. SUBMIT SHOP DRAWINGS OF FRAMING PLANS AND DETAILS OF ALL COMPONENTS OF THE PEMB. THE SHOP DRAWINGS SHALL INDICATE THE COLUMN REACTIONS FOR ALL COMBINATIONS OF DEAD, LIVE, COLLATERAL AND WIND LOADS. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL FROM THE STATE OF ALABAMA OF THE DESIGN ENGINEER.
10. ANCHOR RODS SHALL CONFORM TO ASTM A1557 GRADE 36.
11. DESIGN LOADS:
12. ROOF LIVE LOAD
   12.1. MEMBERS SUPPORTING 0-200 SQ. FT. ---------- 20 PSF
   12.2. MEMBERS SUPPORTING 200-600 SQ. FT. ---------- 16 PSF
   12.3. MEMBERS SUPPORTING MORE THAN 600 SQ. FT. ---------- 12 PSF
   12.4. COLLATERAL METAL BUILDING ROOF LOAD ---------- 8 PSF
13. DEFLECTION LIMIT ---------- H/360

DESIGN LOADS AND PARAMETERS:

1. LIVE LOADS:
   1.1. ROOF ---------- 20 PSF (REDUCIBLE)
   1.2. TYPICAL FLOOR ---------- 40 PSF
   1.3. CLASSROOMS ---------- 40 PSF
   1.4. OFFICE ---------- 50 PSF
   1.5. GYMNASIUM ---------- 150 PSF
   1.6. LOBBIES ---------- 100 PSF
   1.7. FIRST FLOOR CORRIDOR ---------- 100 PSF
   1.8. MECHANICAL PLATFORMS ---------- 50 PSF

2. DEAD LOADS
   2.1. ROOF---------- 10 PSF
   2.2. ATTIC/CEILING ---------- 10 PSF

3. SNOW LOAD ---------- 0 PSF

4. WIND PARAMETERS:
   4.1. DESIGN CODE ---------- ASCE 7-16
   4.2. DESIGN WIND SPEED (ULT. 3 SEC GUST) ---------- 136 MPH
   4.3. OCCUPANCY CATEGORY ---------- III
   4.4. WIND EXPOSURE CATEGORY ---------- B
   4.5. INTERNAL PRESSURE COEFFICIENTS ---------- +/- 0.18

5. SEISMIC PARAMETERS:
   5.1. SEISMIC USE GROUP ---------- III
   5.2. SEISMIC IMPORTANCE FACTOR (Ie)---------- 1.25
   5.4. SITE CLASS---------- D
   5.8. SEISMIC DESIGN CATEGORY ---------- C
   5.9. MAPPED SPECTRAL RESPONSE ACCELERATION:
      5.9.1. Ss ---------- 0.093
      5.9.2. S1 ---------- 0.063
   5.10. SPECTRAL RESPONSE COEFFICIENTS:
      5.10.1. Sds ---------- 0.099
      5.10.2. Sd1 ---------- 0.100

APPLICABLE CODES
UNLESS OTHERWISE NOTED OR SPECIFIED, ALL CONSTRUCTION SHALL CONFIRM TO THE FOLLOWING CODES (LATEST EDITION UNLESS NOTED OTHERWISE):

IBC 2021	INTERNATIONAL BUILDING CODE
ASCE 7-16	MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
ACI 318	AMERICAN CONCRETE INSTITUTE
AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI S100	NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S202	CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL MEMBERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS (AS SPECIFIED IN CODES)
AWS D1.1	AMERICAN WELDING SOCIETY
ICC 500	STANDARD ON THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
SDI-RD	STANDARD FOR STEEL ROOF DECK
TMS 402	BUILDING CODE FOR MASONRY STRUCTURES
TMS 602	SPECIFICATION FOR MASONRY STRUCTURES
WRI/CRSI	DESIGN OF SLAB-ON-GROUND FOUNDATIONS - WITH 1996 UPDATE
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION STANDARDS

SPREAD FOOTING SCHEDULE

MARK	SIZE	REINF. EA. WAY TOP & BOTT.
SF-2	2'-0"x2'-0"x1'-0"	3-#4
SF-2.5	2'-6"x2'-6"x1'-0"	3-#5
SF-3	3'-0"x3'-0"x1'-0"	3-#5
SF-3.5	3'-6"x3'-6"x1'-0"	4-#5
SF-4	4'-0"x4'-0"x1'-0"	4-#5
SF-4.5	4'-6"x4'-6"x1'-2"	5-#6
SF-5	5'-0"x5'-0"x1'-2"	5-#6
SF-5.5	5'-6"x5'-6"x1'-2"	6-#6
SF-6	6'-0"x6'-0"x1'-2"	6-#6
SF-6.5	6'-6"x6'-6"x1'-4"	7-#6
SF-7	7'-0"x7'-0"x1'-4"	7-#7
SF-7.5	7'-6"x7'-6"x1-4"	7-#7
SF-8	8'-0"x8'-0"x1'-4"	8-#7

SPREAD FOOTING NOTES:
1. NOT ALL FOOTINGS ARE NECESSARILY USED
2. FOOTINGS HAVE BEEN SIZED FOR AN ASSUMED BEARING CAPACITY AS LISTED IN THE GENERAL NOTES OF THIS DOCUMENT. SEE GENERAL NOTES FOR ALL DESIGN REQUIREMENTS AND ASSUMPTIONS

CMU WALL REINFORCEMENT SCHEDULE

MARK	LOCATION	SIZE	MAX HT.	VERT. REINF.
W-1	EXTERIOR	8" CMU	13'-4"*	#5 @ 32" O.C.
W-2	INTERIOR LOAD BEARING	8" CMU	13'-4"*	#5 @ 32" O.C.
W-3	INTERIOR	8" CMU	13'-4"*	#5 @ 48" O.C.

WALL SCHEDULE NOTES:
* WALL HEIGHT MEASURED FROM FINISH FLOOR TO TOP OF BOND BEAM
** WALL HEIGHT MEASURED FROM OUTSIDE FINISH GRADE TO TOP OF WALL/SLAB

1. WHERE WALLS OCCUR AND ARE NOT CALLED OUT ON THE PLAN, USE APPLICABLE SCHEDULE REINFORCEMENT. NOTIFY STRUCTURAL ENGINEER IF CONDITIONS EXIST THAT ARE OUTSIDE THE PARAMETERS OF THE SCHEDULE.
2. PROVIDE FOUNDATION STARTER DOWEL SAME SIZE AS VERTICAL BAR @ EA. VERTICAL BAR. LAP AS INDICATED IN SCHEDULE
3. PROVIDE CORNER REINFORCEMENT AS INDICATED IN TYPICAL CMU DETAILS.
4. PROVIDE VERTICAL BAR AT EA. DOOR AND WINDOW JAMB AS INDICATED IN TYPICAL CMU DETAILS.
5. PROVIDE VERTICAL BAR EA. SIDE OF MASONRY CONTROL JOINT (MCJ) AS INDICATED IN TYPICAL CMU DETAILS

8" CMU REINFORCEMENT LAP SPLICE SCHEDULE

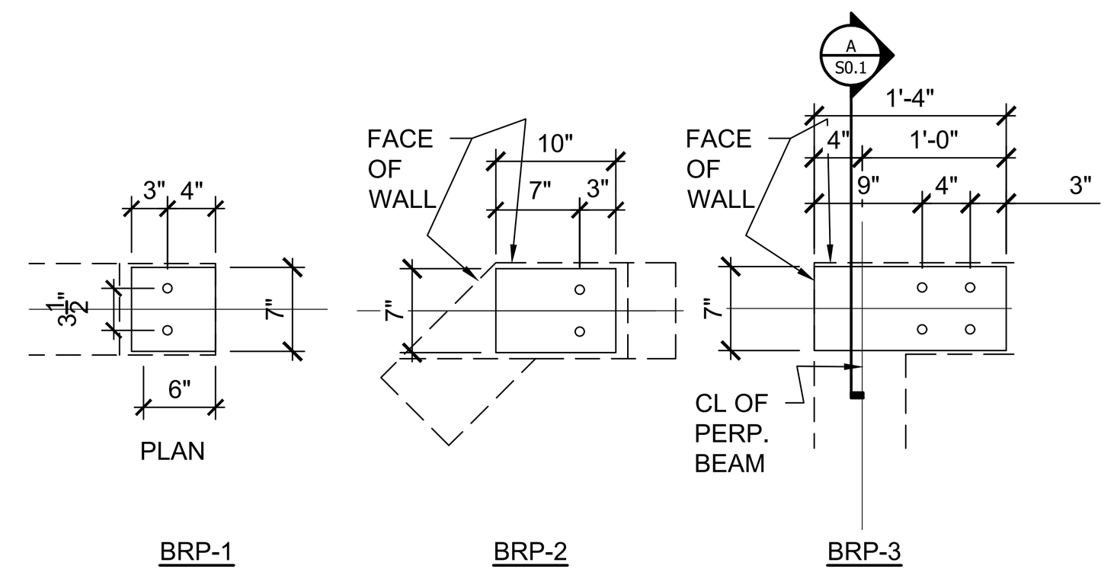
MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT/ LAP LENGTH (FT.-IN.)	NOTES
2500	3	1'-6"	REINFORCEMENT TO BE CENTERED IN CELL UNLESS OTHERWISE NOTED
	4	2'-0"	
	5	2'-6"	
	6	3'-4"	

12" CMU REINFORCEMENT LAP SPLICE SCHEDULE

MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT/ LAP LENGTH (FT.-IN.)	NOTES
2500	3	1'-6"	REINFORCEMENT TO BE CENTERED IN CELL UNLESS OTHERWISE NOTED
	4	2'-0"	
	5	2'-6"	
	6	3'-0"	
	7	3'-6"	

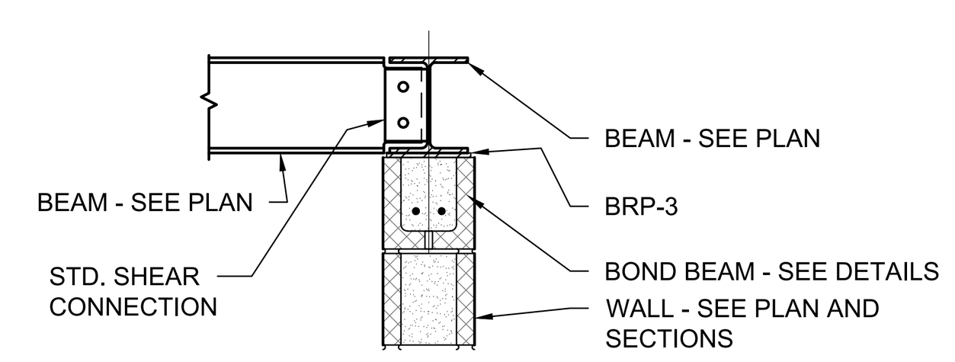
STANDARD ABBREVIATIONS AND SYMBOLS

#L-#	CMU WALL WIDTH + LINTEL #
&	AND
Ø	DIAMETER
°	DEGREE
A.F.F.	ABOVE FINISH FLOOR
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECTURAL / ARCHITECT
B/	BOTTOM OF
BL-#	BRICK LINTEL
BOT	BOTTOM
BP-#	BASE PLATE-#
BRNG	BEARING
BW	BOTH WAYS
C-C	CENTER TO CENTER
A.J.	SAW CUT CONTROL JOINT
CB-#	CONCRETE BEAM-#
CC-#	CONCRETE COLUMN-#
CFMF	COLD FORM METAL FRAMING
CIP	CAST IN PLACE
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COORD.	COORDINATE
DEMO	DEMOLISH
DET.	DETAIL
DL	DEAD LOAD
DWGS	DRAWINGS
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.S.	EDGE OF SLAB
EA.	EACH
EF	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EW	EACH WAY
EXIST.	EXISTING
EXT	EXTERIOR
F.C.J.	FORMED CONSTRUCTION JOINT
F.F.E.	FINISH FLOOR ELEVATION OF STRUCTURE (T/ PLYWOOD OR TOP OF CONCRETE)
F.D.	FLOOR DRAIN
F.V.	FIELD VERIFY
FDN	FOUNDATION
FLR	FLOOR
FS	FAR SIDE
FT.	(') FEET
FTG.	FOOTING
GALV	GALVANIZED
GT-#	GIRDER TRUSS
H-#	HEADER-#
HSS	HOLLOW STEEL SHAPE
I.D.	INSIDE DIAMETER
I.S.F	INSIDE FACE
IN.	(") INCH
K	KIP (1000 POUNDS)
LB.	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, & PLUMBING
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NS	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON-CENTER
O.D.	OUTSIDE DIAMETER
O.S.F.	OUTSIDE FACE
OPP. HAND	CONDITION IS A MIRROR IMAGE OF CONDITION SHOWN IN SECTION/DETAIL
P.E.J.	PRE-FORMED EXPANSION JOINT
P.T.	POST TENSION (CONCRETE)
PT	PRESSURE TREATED (LUMBER)
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
REINF	REINFORCEMENT
REQ'D	REQUIRED
REV.	REVISED
RO	ROUGH OPENING
S#	STUD PACKAGE-# OF STUDS
SCH.	SCHEDULE
SEOR	STRUCTURAL ENGINEER OF RECORD
SF-#	SPREAD FOOTING-#
SHT	SHEET
SIM.	SIMILAR TO INDICATED CONDITION W/ ONLY MINOR VARIATION
SOG	SLAB ON GRADE
SSL	SHORT SLOTTED HOLE
STD.	STANDARD
SW-#	SHEAR WALL-#
SYM	SYMMETRICAL
T-#	TRUSS
T&B	TOP & BOTTOM
T.O.B.	TOP OF BEAM
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
THRU	THROUGH
TRANS.	TRANSVERSE
TYP.	CONDITION TYPICAL THROUGHOUT PLAN, SECTION, OR DETAIL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W-#	WALL #
W.W.F	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WB	WOOD BEAM
WF	WIDE FLANGE STEEL BEAM
WT.	WEIGHT

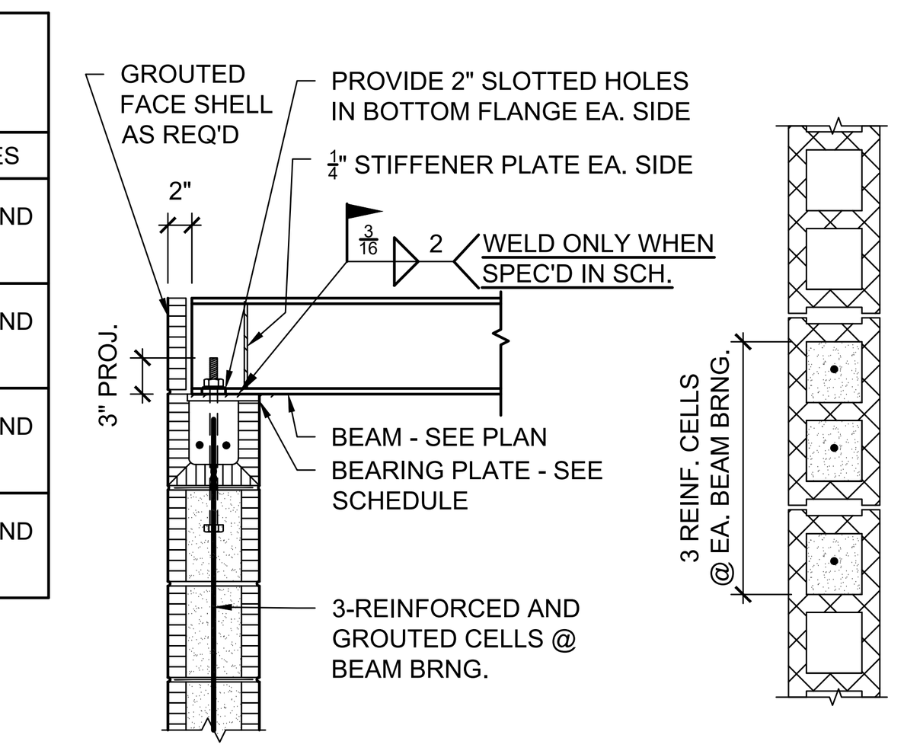


BEAM BEARING PLATE (BRP-#) AND EMBED PLATE (EP-#) SCHEDULE

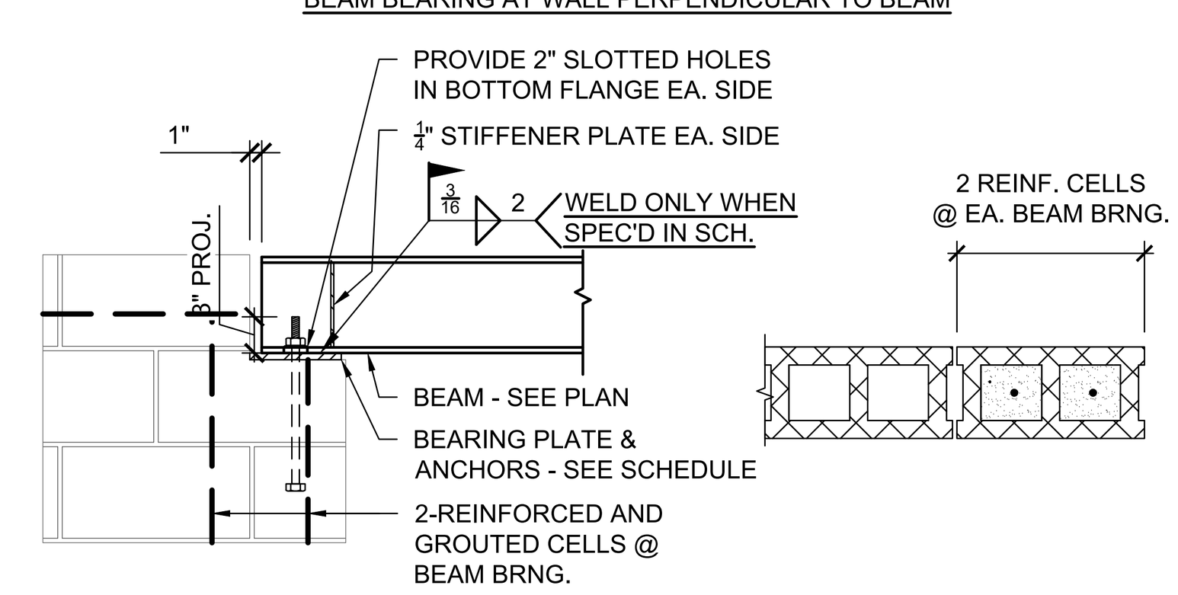
MARK	BEAM SIZE	SIZE	ANCHOR RODS	ANCHOR NOTES	WELD NOTES
BRP-1	W8	$\frac{3}{8}$"X7"X0'-6"	(2) $\frac{1}{2}$"Øx1'-4" THREADED RODS	HAND TIGHTEN NUT AND DAMAGE THREADS	WELD ONE END ONLY
BRP-2	W14	$\frac{3}{8}$"X7"X0'-10"	(2) $\frac{1}{2}$"Øx1'-4" THREADED RODS	HAND TIGHTEN NUT AND DAMAGE THREADS	WELD ONE END ONLY
BRP-3	W8	$\frac{3}{8}$"X7"X1'-4"	(4) $\frac{1}{2}$"Øx1'-4" THREADED RODS	HAND TIGHTEN NUT AND DAMAGE THREADS	WELD ONE END ONLY
BRP-4 (SEE 7/S0.3)	W14	$\frac{3}{4}$"X11"X1'-0"	(4) $\frac{1}{2}$"Øx1'-8" THREADED RODS	HAND TIGHTEN NUT AND DAMAGE THREADS	WELD ONE END ONLY



A / S0.1 **BEAM TO BEAM CONNECTION @ BRP-3**
SCALE: 3/4" = 1'-0"



BEAM BEARING AT WALL PERPENDICULAR TO BEAM



BEAM BEARING AT WALL PARALLEL TO BEAM

2.8 / S0.1 **TYP. BEAM BEARING ON CMU**
1' 4" 8" 0' 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"

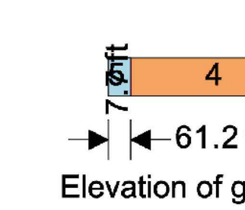
Components and cladding pressures - Roof (Figure Figure 30.3-2E)

Component	Zone	Length (ft)	Width (ft)	Eff. area (ft²)	+GCp	-GCp	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	1m	-	-	10.0	0.70	-1.30	21.9	-36.8
20 sf	1m	-	-	20.0	0.58	-1.30	18.9	-36.8
50 sf	1m	-	-	50.0	0.42	-1.13	14.9 #	-32.5
>100 sf	1m	-	-	100.1	0.30	-1.00	11.9 #	-29.3
<=10 sf	1g	-	-	10.0	0.70	-1.30	21.9	-36.8
20 sf	1g	-	-	20.0	0.58	-1.30	18.9	-36.8
50 sf	1g	-	-	50.0	0.42	-1.13	14.9 #	-32.5
>100 sf	1g	-	-	100.1	0.30	-1.00	11.9 #	-29.3
<=10 sf	2em	-	-	10.0	0.70	-1.80	21.9	-49.2
50 sf	2em	-	-	50.0	0.42	-1.42	14.9 #	-39.8
100 sf	2em	-	-	100.0	0.30	-1.26	11.9 #	-35.8
>200 sf	2em	-	-	200.1	0.30	-1.10	11.9 #	-31.8
<=10 sf	2eg	-	-	10.0	0.70	-1.80	21.9	-49.2
50 sf	2eg	-	-	50.0	0.42	-1.42	14.9 #	-39.8
100 sf	2eg	-	-	100.0	0.30	-1.26	11.9 #	-35.8
>200 sf	2eg	-	-	200.1	0.30	-1.10	11.9 #	-31.8
<=10 sf	2r	-	-	10.0	0.70	-2.40	21.9	-64.1
50 sf	2r	-	-	50.0	0.42	-1.81	14.9 #	-49.4
100 sf	2r	-	-	100.0	0.30	-1.55	11.9 #	-43.1
>200 sf	2r	-	-	200.1	0.30	-1.30	11.9 #	-36.8
<=10 sf	3	-	-	10.0	0.70	-1.80	21.9	-49.2
50 sf	3	-	-	50.0	0.42	-1.42	14.9 #	-39.8
100 sf	3	-	-	100.0	0.30	-1.26	11.9 #	-35.8
>200 sf	3	-	-	200.1	0.30	-1.10	11.9 #	-31.8

The final net design wind pressure, including all permitted reductions, used in the design shall not be less than 16psf acting in either direction

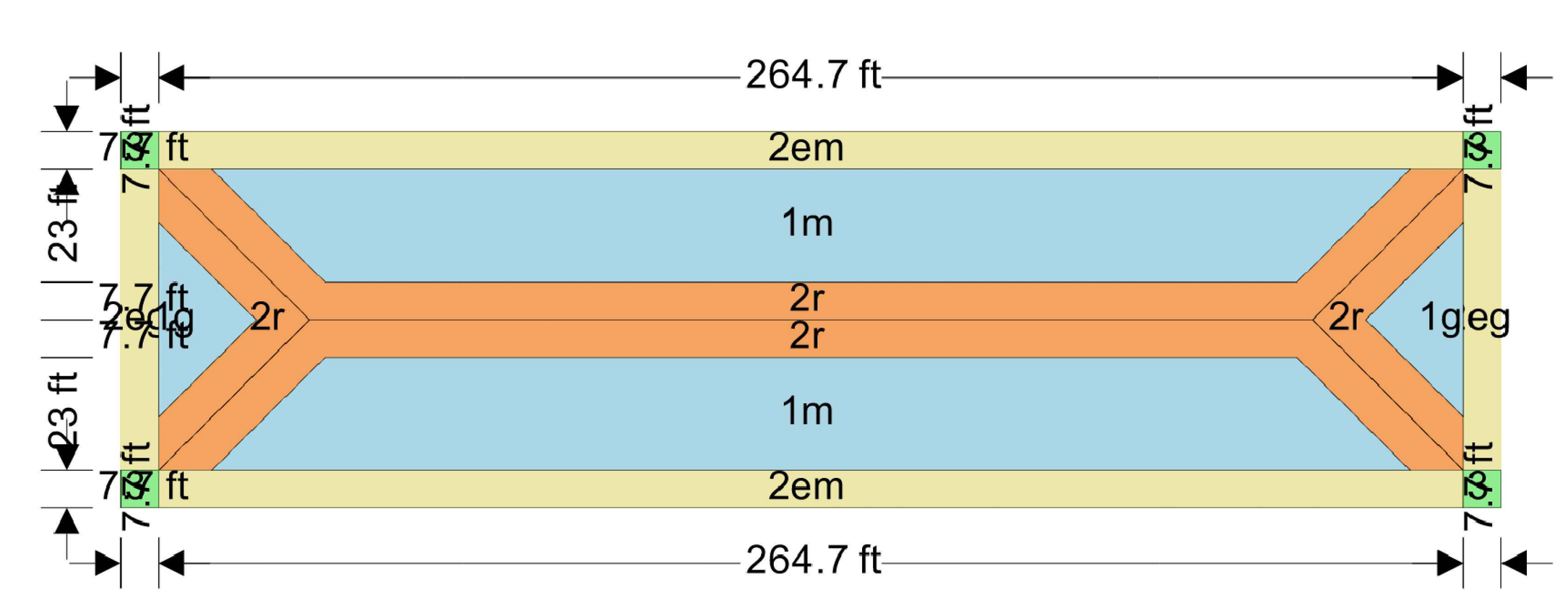
Components and cladding pressures - Wall (Table 30.3-1)

Component	Zone	Length (ft)	Width (ft)	Eff. area (ft²)	+GCp	-GCp	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	4	-	-	10.0	1.00	-1.10	29.3	-31.8
50 sf	4	-	-	50.0	0.88	-0.98	26.2	-28.7
200 sf	4	-	-	200.0	0.77	-0.87	23.6	-26.1
>500 sf	4	-	-	500.1	0.70	-0.80	21.9	-24.3
<=10 sf	5	-	-	10.0	1.00	-1.40	29.3	-39.2
50 sf	5	-	-	50.0	0.88	-1.15	26.2	-33.1
200 sf	5	-	-	200.0	0.77	-0.94	23.6	-27.8
>500 sf	5	-	-	500.1	0.70	-0.80	21.9	-24.3



Elevation of gable wall

Elevation of side wall



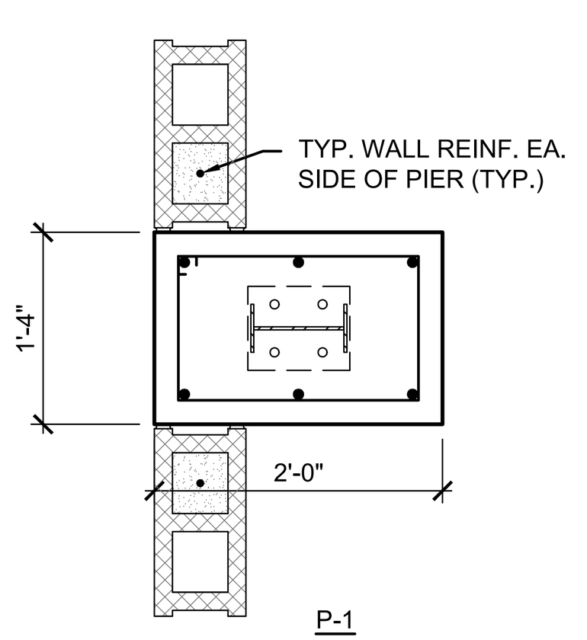
Plan on roof

1 / S0.1 **ULTIMATE C&C PRESSURE TABLES & DIAGRAMS**
SCALE: 3/4" = 1'-0"

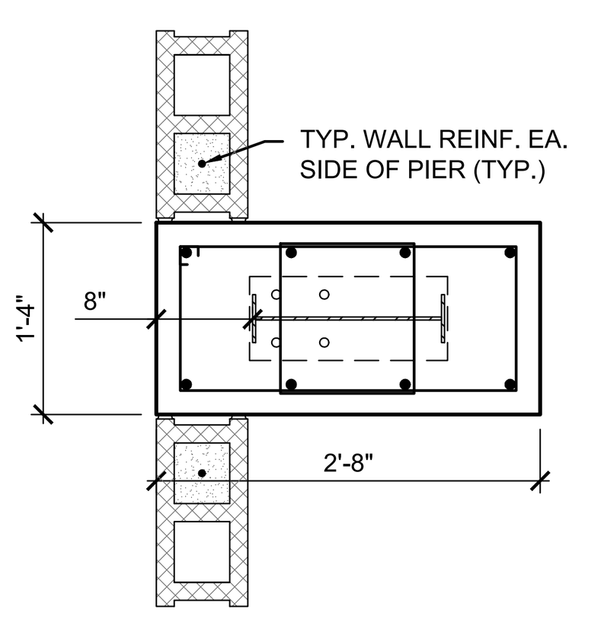
PEMB PIER SCHEDULE

MARK	"b" -WIDTH	"d" - DEPTH	VERT. REINF.	TIES
P-1	1'-4"	2'-0"	6-#5	#3 : 1 @ 2", 2@6", R @ 12"
P-2	1'-4"	2'-8"	8-#5	#3 : 1 @ 2", 2@6", R @ 12"
P-3	1'-8"	2'-0"	8-#5	#3 : 1 @ 2", 2@6", R @ 12"

PEMB PIER SCHEDULE NOTES:
1. ANCHOR LAYOUT MUST BE IN ACCORDANCE WITH FINAL PEMB ANCHOR BOLT SHOP DRAWINGS. BASE PLATE SIZES, COLUMN SIZES, ANCHOR LAYOUT, AND PIER SIZES ARE ESTIMATES AND SHALL BE VERIFIED PRIOR TO CONSTRUCTDION.
2. ALL PIER SIZES AND REINFORCEMENT SHALL BE VERIFIED BY THE EOR UPON REVIEW OF THE PEMB SHOP DRAWINGS.
3. IN NO CASE SHALL THE PIER BE SMALLER IN AREA THAN THE PEMB BASE PLATE



P-1



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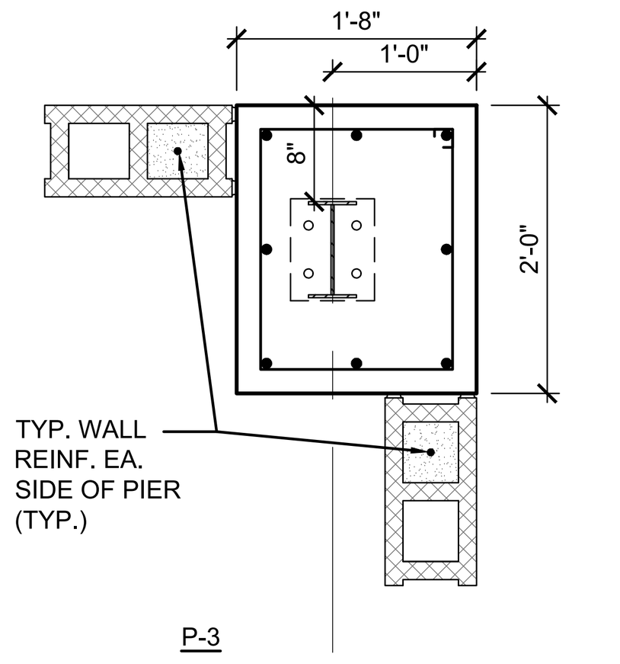
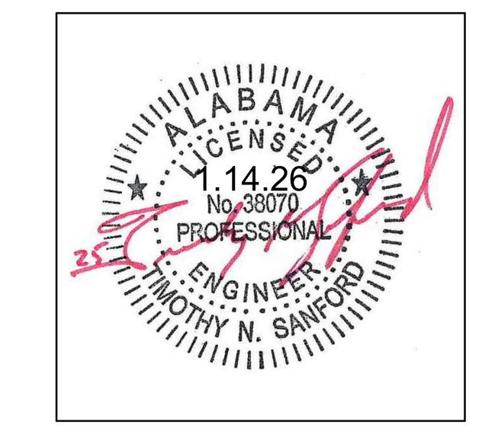


P-3

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

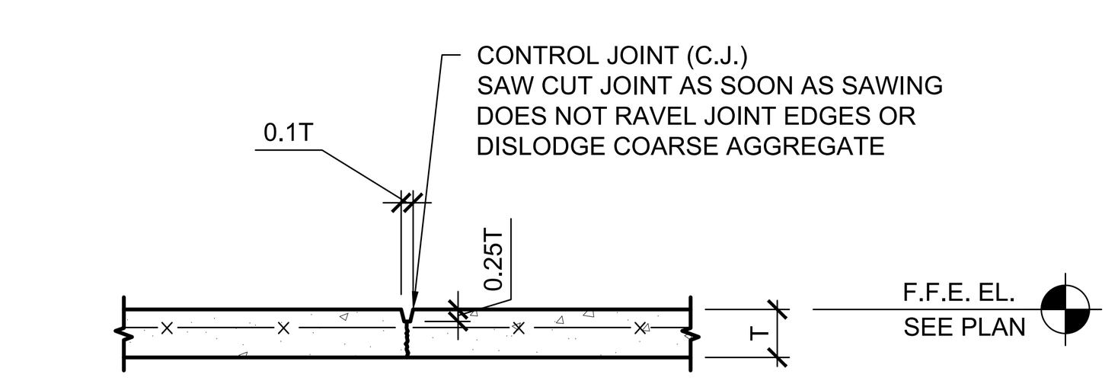
SHEET TITLE:
TYPICAL SECTIONS, DETAILS, AND SCHEDULES



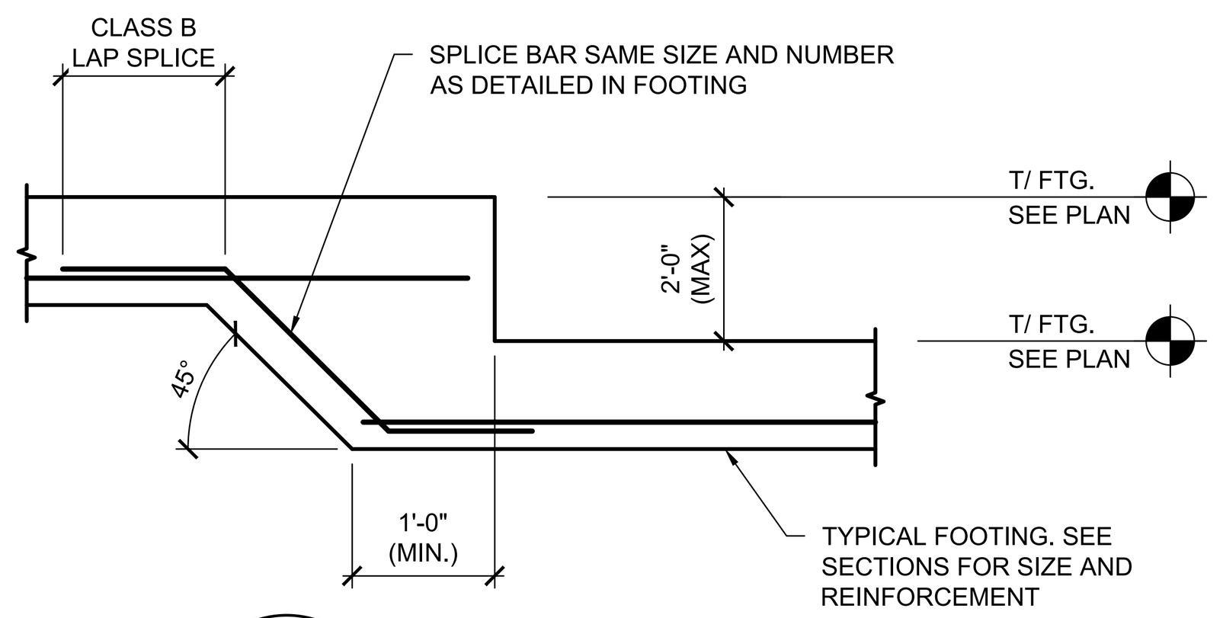
PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

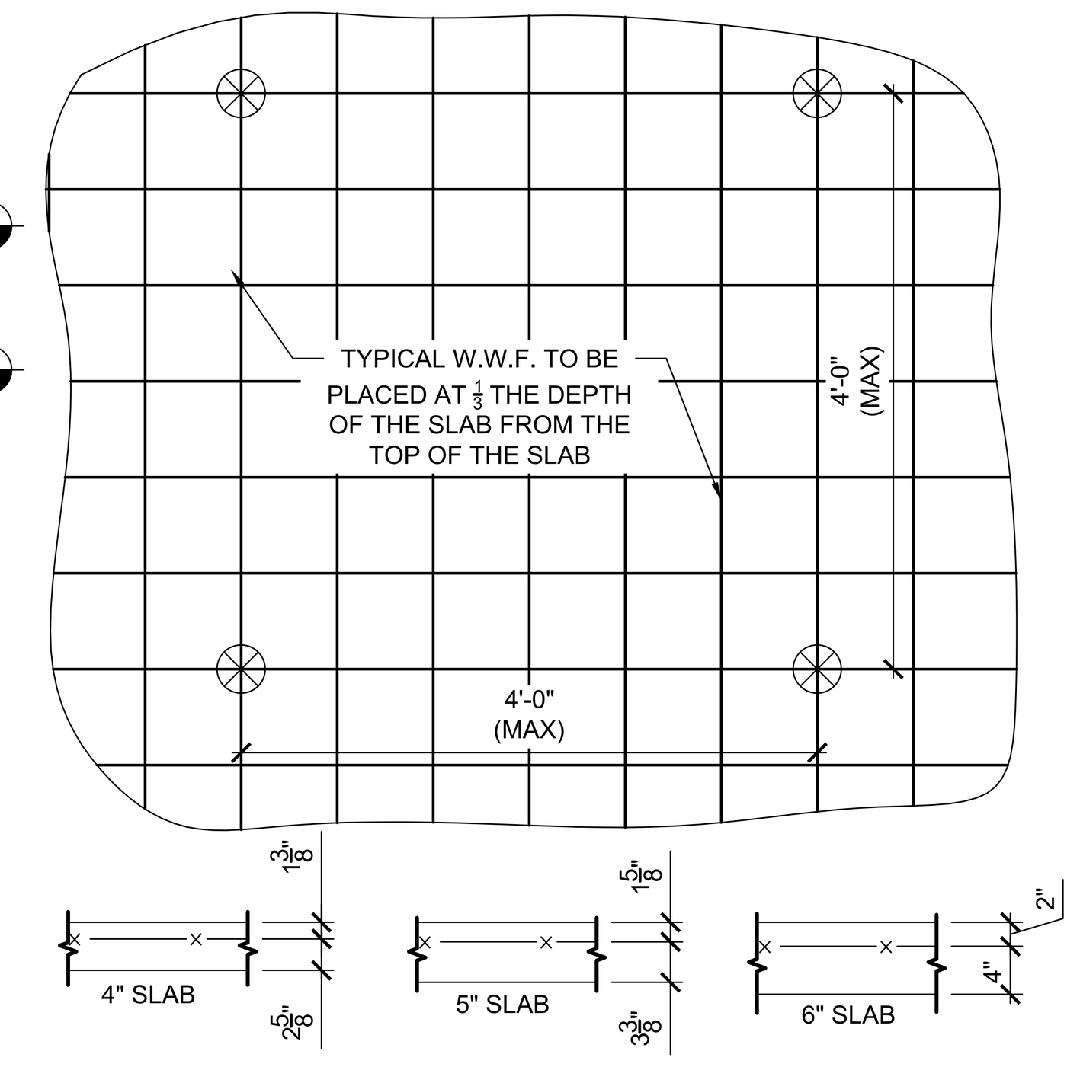
JOB NO. 24-304
SHEET NO:
S0.1
0 1" 2"

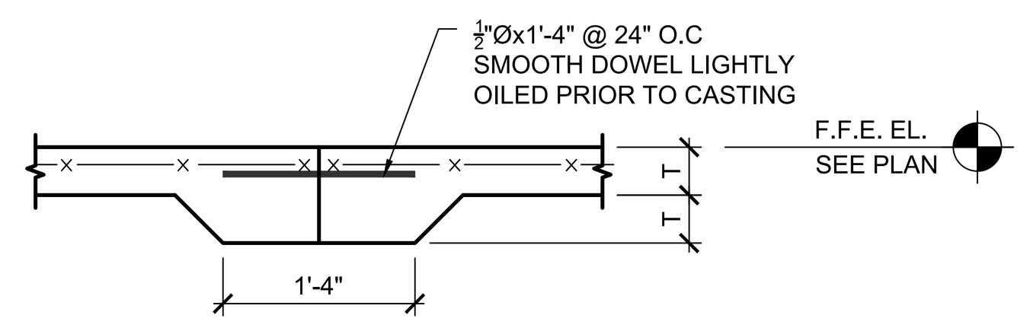


1.1 S0.2 **CONCRETE CONTROL JOINT (C.J.)**
SCALE: 3/4" = 1'-0"

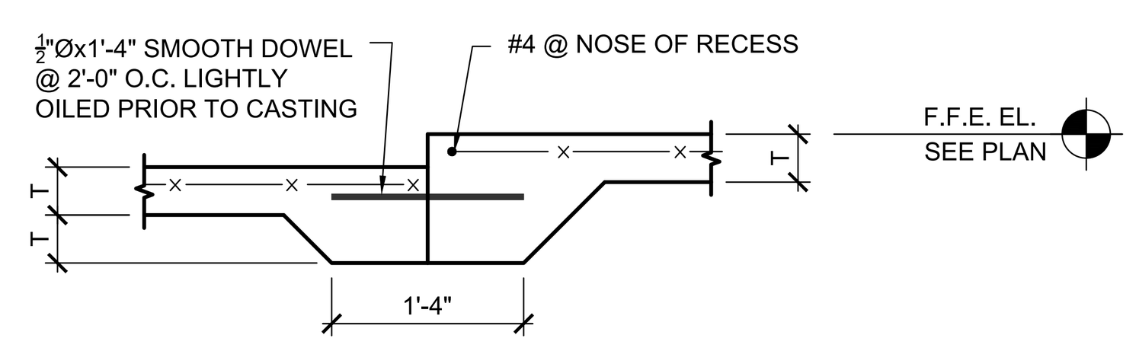


1.2 S0.2 **FOOTING STEP**
SCALE: 3/4" = 1'-0"



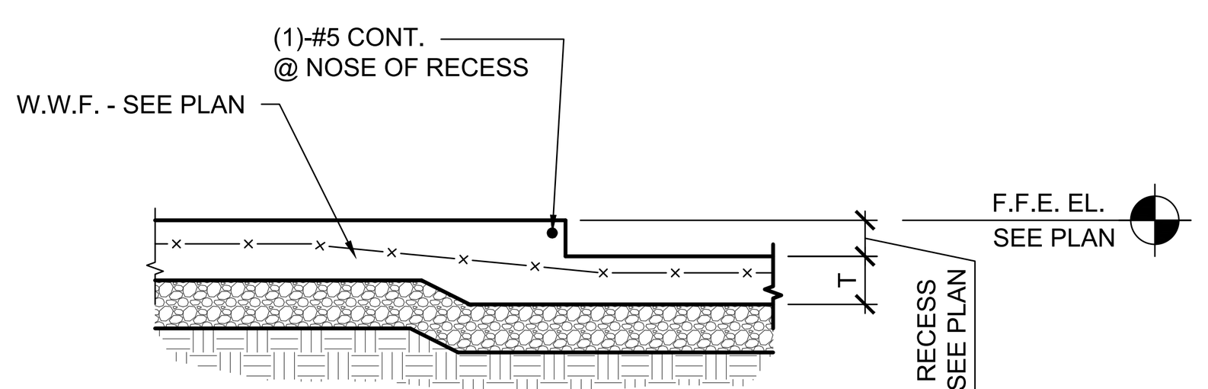


1.3 S0.2 **CONSTRUCTION JOINT**
SCALE: 3/4" = 1'-0"

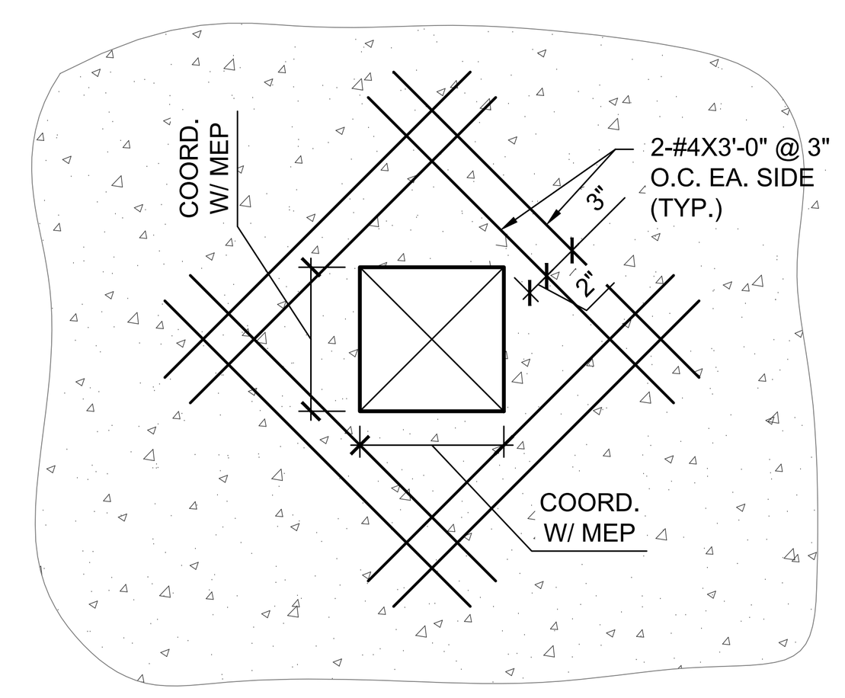


1.4 S0.2 **STEPPED CONSTRUCTION JOINT**
SCALE: 3/4" = 1'-0"

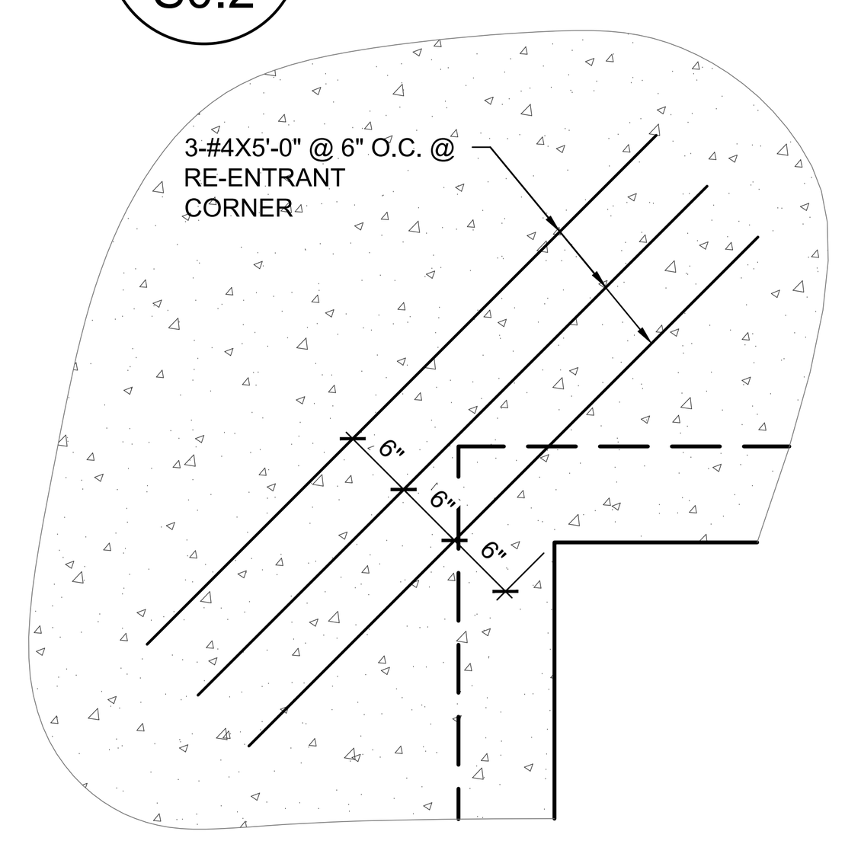
1.5 S0.2 **W.W.F. PLACEMENT**
SCALE: 3/4" = 1'-0"



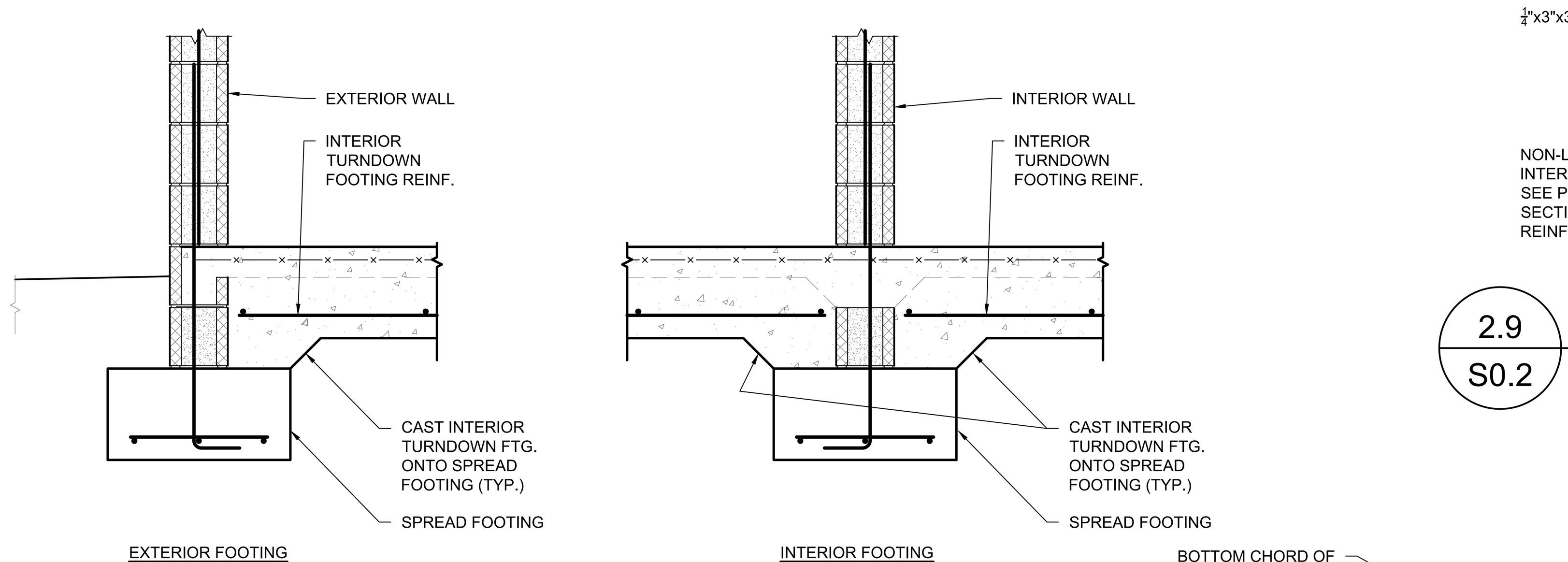
1.6 S0.2 **SLAB RECESS**
SCALE: 3/4" = 1'-0"



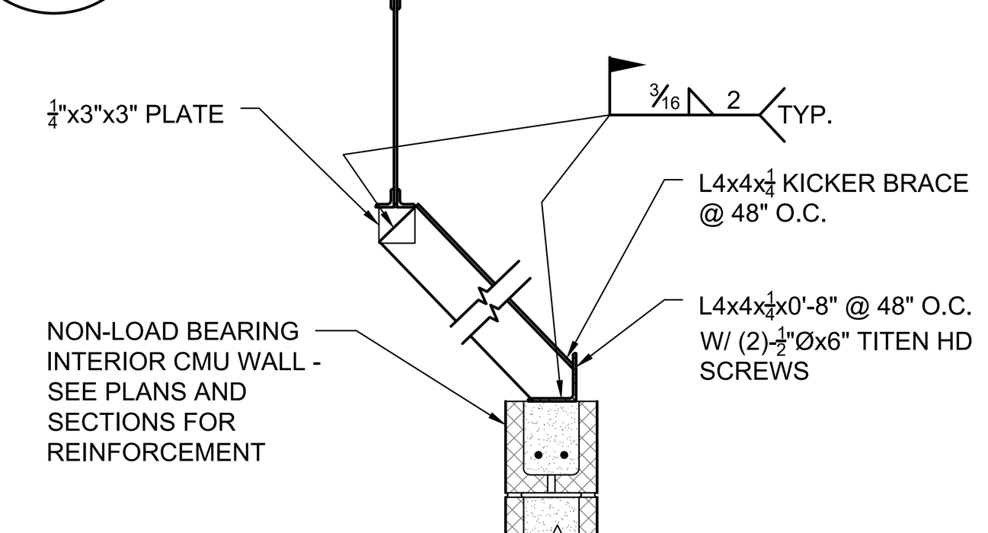
1.7 S0.2 **TYP. FLOOR OPENING**
SCALE: 3/4" = 1'-0"



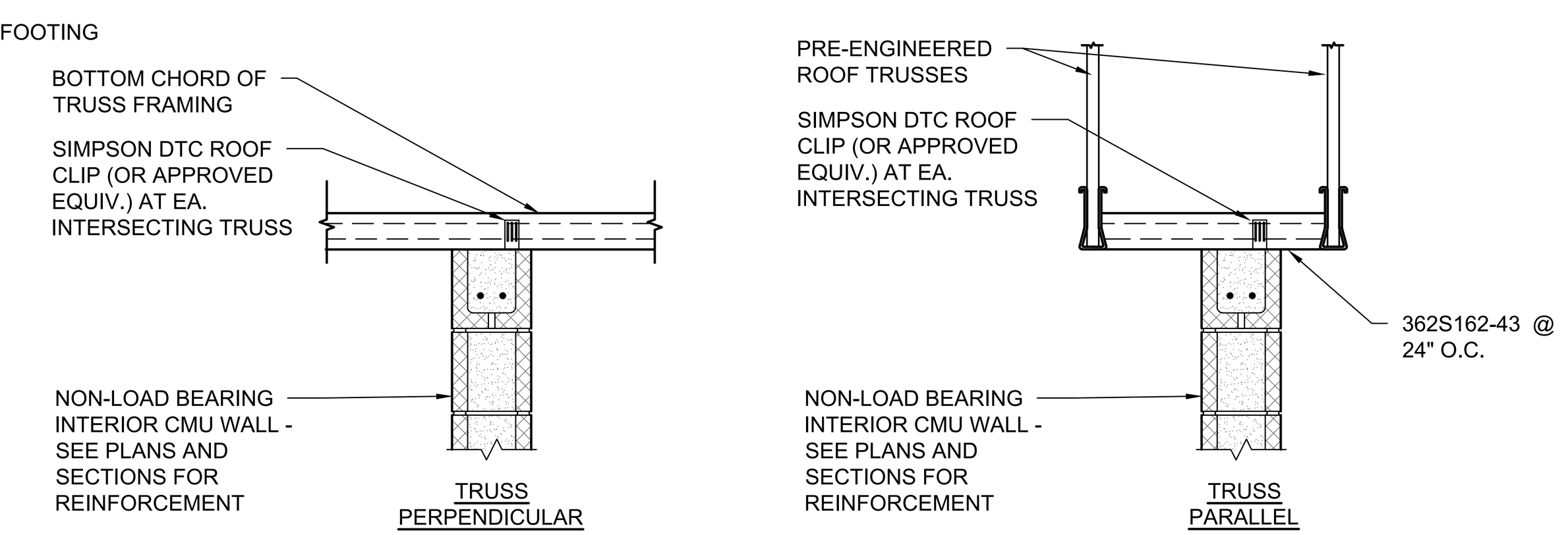
1.8 S0.2 **TYP. RE-ENTRANT CORNER**
SCALE: 3/4" = 1'-0"



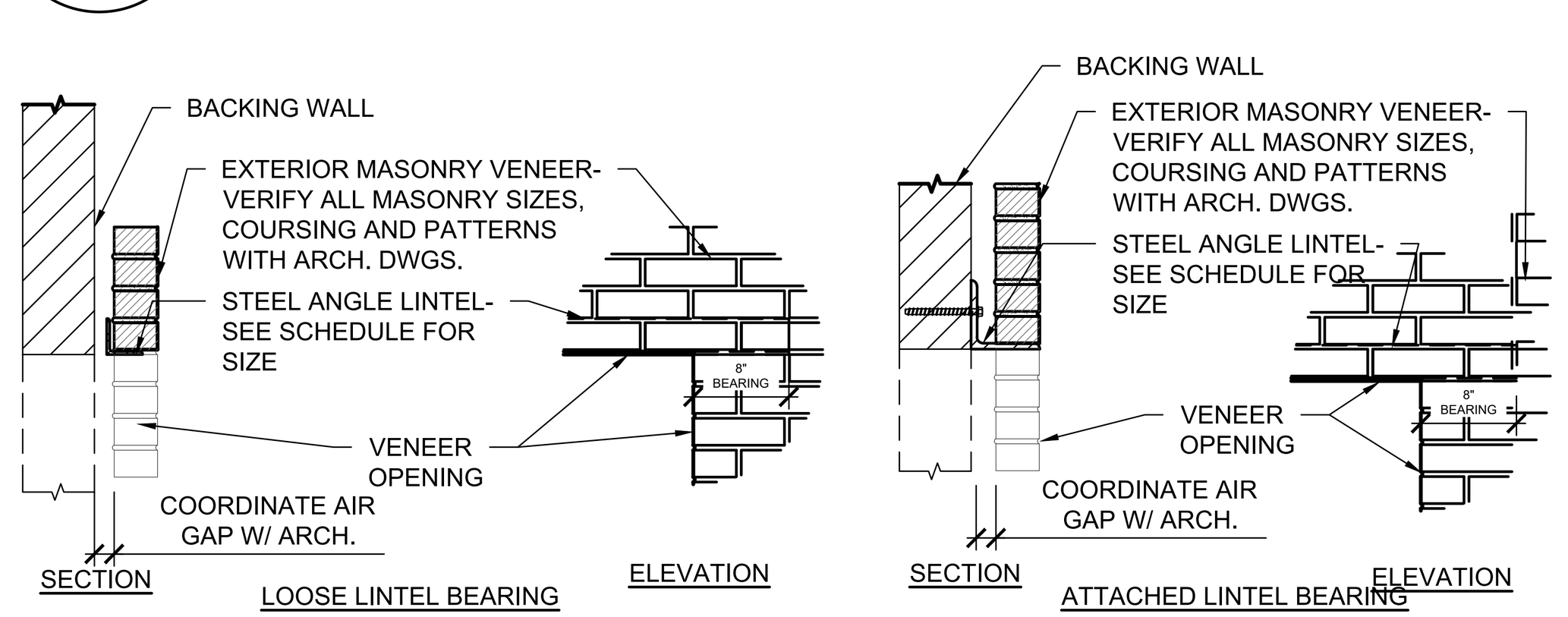
1.9 S0.2 **TYP. INT. TURN DOWN AT SPREAD FTG.**
SCALE: 3/4" = 1'-0"



2.9 S0.2 **TYP. CMU / JOIST BRACING**
SCALE: 3/4" = 1'-0"



2.8 S0.2 **TYP. CMU WALL BRACED TO CFMF TRUSSES**
SCALE: 3/4" = 1'-0"

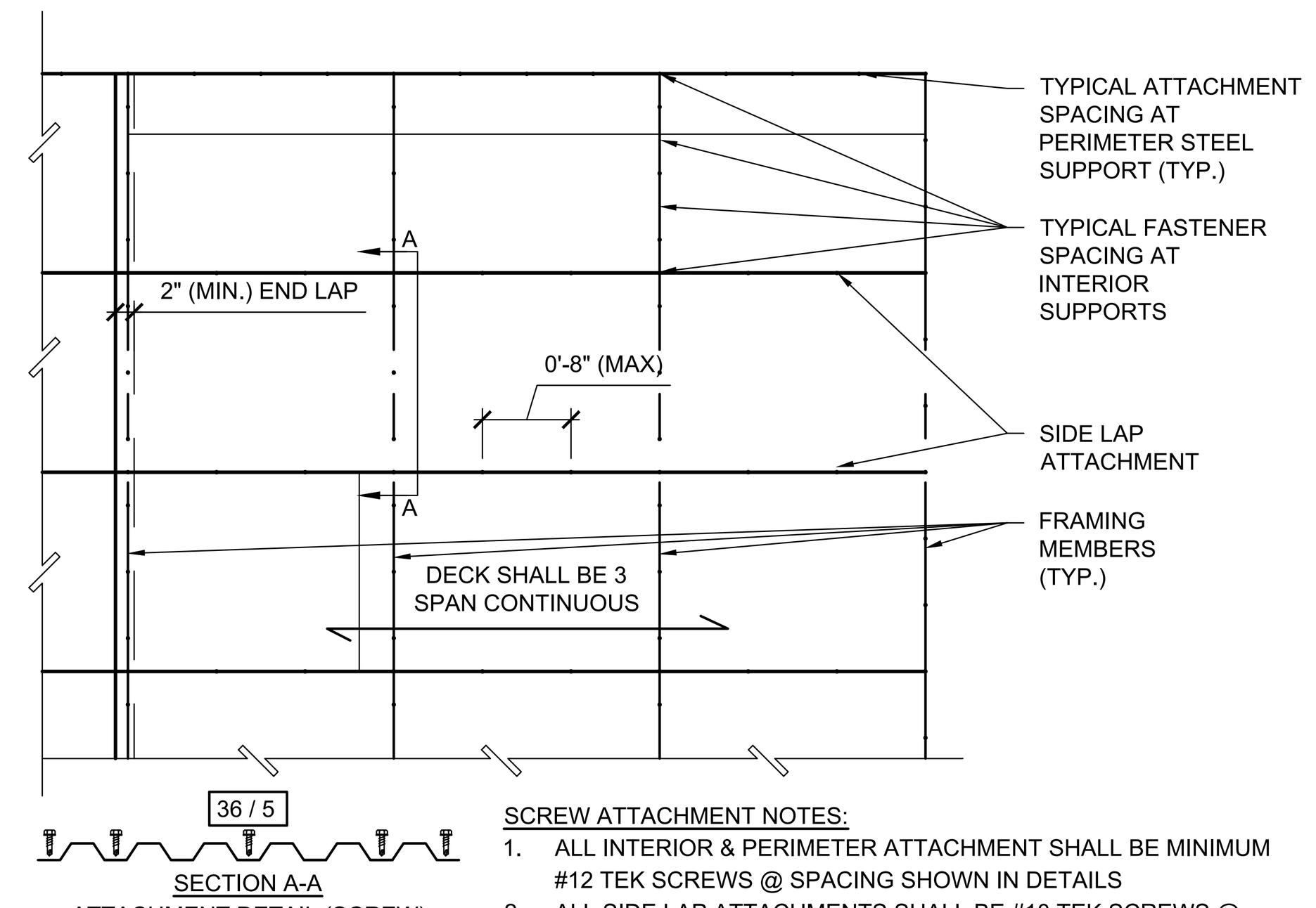


3.1 S0.2 **VENEER LINTEL DETAILS**
SCALE: 3/4" = 1'-0"

BRICK VENEER LINTEL SCHEDULE (BL-X)				
MARK	WALL TYPE	MAX SPAN (X'-X")	SIZE	NOTES
BL-1	CMU	3'-4"	L4x4x¼	
BL-2	CMU	6'-4"	L6x6x5/16	
BL-3	CMU	10'-0"	L6x6x3/8	
BL-4	CMU	>10'-0"	L6x6x5/16 W/ ½"Øx6" CONCRETE SCREW ANCHOR @ 16" O.C.	ATTACH TO BACKING WALL

BRICK VENEER SCHEDULE NOTES:

1. ALL LINTELS SHALL BEAR 8" EA. SIDE U.N.O.
2. ALL LINTEL SHALL BE LOOSE BRNG. UNLESS SPECIFIED TO BE ATTACHED TO BACKING WALL
3. WHERE OPENING OCCUR IN WALLS LINTELS ARE NOT CALLED OUT, PROVIDE LINTEL FROM ABOVE SCHEDULE BASED UPON OPENING CLEAR SPAN.
4. NOTIFY ENGINEER IF OPENING SPAN EXCEEDS SCHEDULE LENGTH.



SCREW ATTACHMENT NOTES:

1. ALL INTERIOR & PERIMETER ATTACHMENT SHALL BE MINIMUM #12 TEK SCREWS @ SPACING SHOWN IN DETAILS
2. ALL SIDE LAP ATTACHMENTS SHALL BE #10 TEK SCREWS @ SPACING SHOWN IN DETAILS

6.8 S0.2 **TYP. ROOF DECK ATTACHMENT**
SCALE: 3/4" = 1'-0"

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE							
CONCRETE COMPRESSIVE STRENGTH		3000 PSI		4000 PSI		5000 PSI	
BAR SIZE (#)	SPLICE TYPE	TOP BAR (IN.)	OTHER BAR (IN.)	TOP BAR (IN.)	OTHER BAR (IN.)	TOP BAR (IN.)	OTHER BAR (IN.)
3	DEVELOPMENT LENGTH	21	16	18	14	17	13
	CLASS B LAP SPLICE	28	21	24	18	22	17
4	DEVELOPMENT LENGTH	28	22	25	19	22	17
	CLASS B LAP SPLICE	37	28	32	25	29	22
5	DEVELOPMENT LENGTH	36	27	31	24	28	21
	CLASS B LAP SPLICE	46	36	40	31	36	28
6	DEVELOPMENT LENGTH	43	33	37	28	33	25
	CLASS B LAP SPLICE	56	43	48	37	43	33
7	DEVELOPMENT LENGTH	62	48	54	42	48	37
	CLASS B LAP SPLICE	81	62	70	54	63	48
8	DEVELOPMENT LENGTH	71	55	62	47	55	42
	CLASS B LAP SPLICE	93	71	80	62	72	55
9	DEVELOPMENT LENGTH	80	62	70	54	62	48
	CLASS B LAP SPLICE	104	80	90	70	81	62
10	DEVELOPMENT LENGTH	90	70	78	60	70	54
	CLASS B LAP SPLICE	118	90	102	78	91	70
11	DEVELOPMENT LENGTH	100	77	87	67	78	60
	CLASS B LAP SPLICE	131	100	113	87	101	78

REINFORCEMENT LAP SPICE NOTES

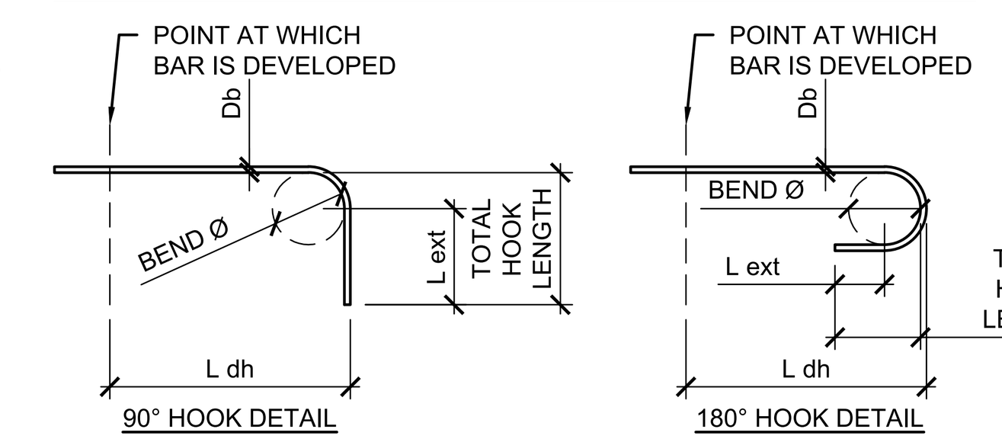
1. "TOP BAR" INDICATES MORE THAN 12" OF FRESH CONCRETE PLACED BELOW SPICE (ψ_t = 1.3)
2. "OTHER BAR" INDICATES BAR WITH LESS THAN 12" OF FRESH CONCRETE PLACED BELOW SPLICE (ψ_t = 1.0)
3. LAP SCHEDULE ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
4. LAP SCHEDULE ASSUMES UNCOATED BARS (ψ_e = 1.0)
5. SPACING / CLEAR COVER REQUIREMENTS:
   - 5.1. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT LAP SPLICE NOT LESS THAN CODE MINIMUM.
   - (OR)
   - 5.2. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN 2 BAR DIAMETERS AND CONCRETE COVER NOT LESS THAN BAR DIAMETER.
6. NOTIFY ENGINEER OF RECORD IF CONDITIONS/ASSUMPTIONS ABOVE ARE NOT MET.

DEVELOPMENT LENGTH OF STD. 90° HOOK				
	f'c	3000 PSI	4000 PSI	5000 PSI
BAR SIZE (#)		LENGTH [L dh] (IN.)		
3		6	5	5
4		8	7	6
5		10	9	8
6		12	10	9
7		14	12	11
8		15	14	12
9		17	15	14
10		20	17	16
11		22	19	17

REINFORCEMENT HOOK NOTES

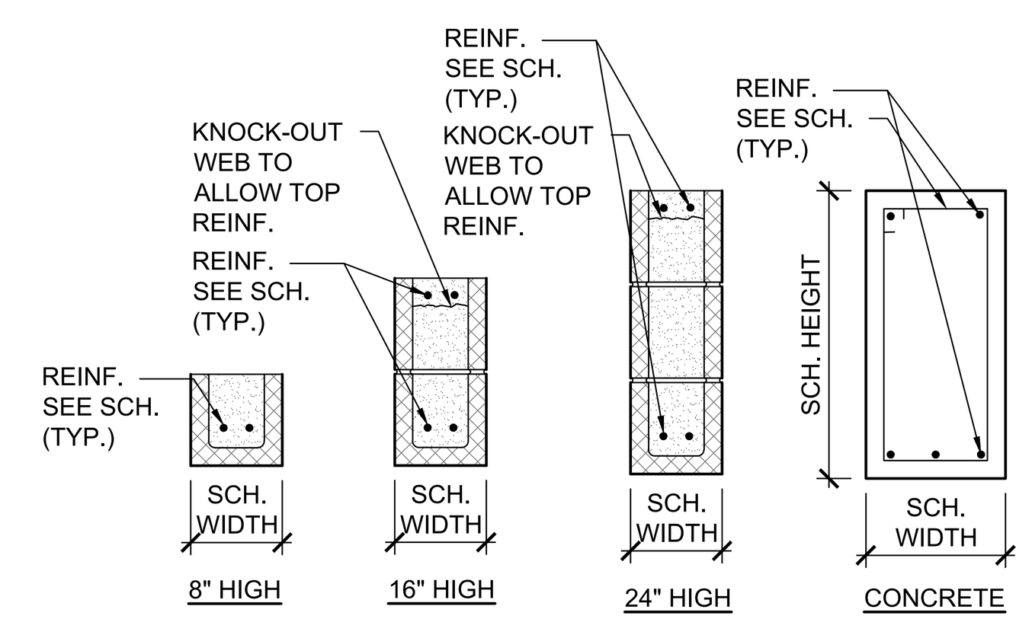
1. HOOK LENGTH ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
2. HOOK LENGTH ASSUMES UNCOATED BARS (ψ_e = 1.0)
3. HOOK LENGTH ASSUMES SIDE COVER (NORMAL TO PLANE OF HOOK >=2.5" AND FOR 90° HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK >=2" (ψ_e = 0.7)
4. HOOK LENGTH ASSUMES NO CONFINEMENT REINFORCEMENT (ψ_e = 1.0)

STD. HOOK GEOMETRY				
TYPE OF STANDARD HOOK	BAR SIZE (#)	MINIMUM INSIDE BEND DIAMETER	STRAIGHT EXTENSION (IN.)	TYPE OF STANDARD HOOK
90 DEGREE HOOK	#3 - #8	6 * Db	12 * Db	90° DETAIL
	#9 - #11	8 * Db		
180 DEGREE HOOK	#3 - #8	6 * Db	GREATER OF 4 * Db AND 2.5"	180° DETAIL
	#9 - #11	8 * Db		

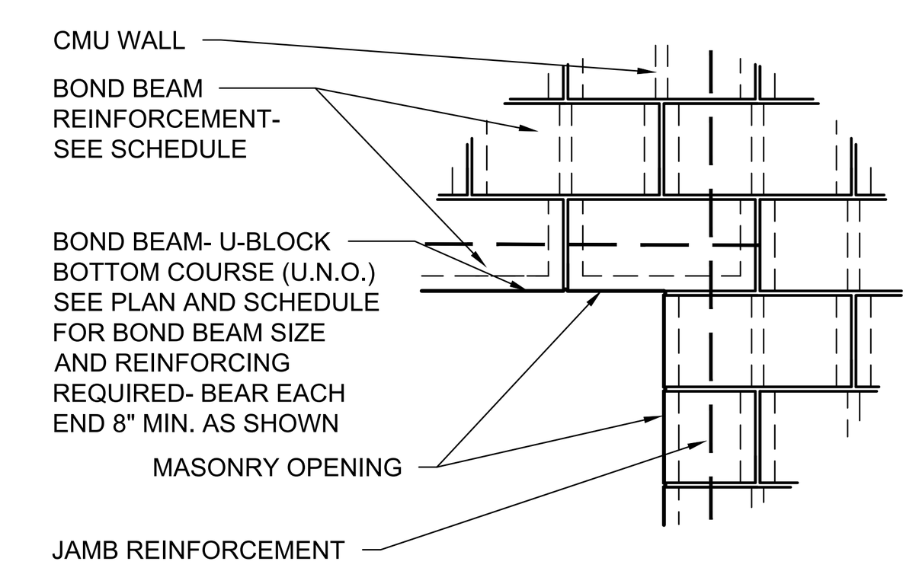


STD. 90° HOOK LENGTH	
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	6
4	8
5	10
6	12
7	14
8	15
9	18
10	20
11	22

STD. 180° HOOK LENGTH	
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	4
4	4
5	5
6	6
7	7
8	7
9	9
10	10
11	11



2.1 S0.2 **CMU LINTEL DETAILS**
SCALE: 3/4" = 1'-0"

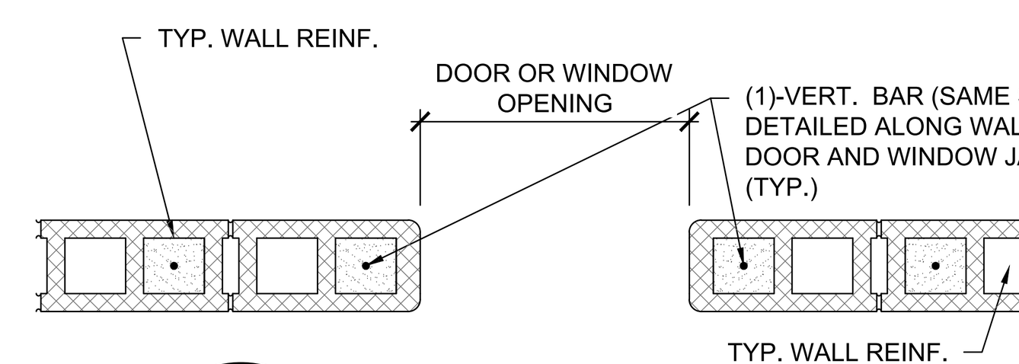


2.2 S0.2 **CMU LINTEL ELEVATION**
SCALE: 3/4" = 1'-0"

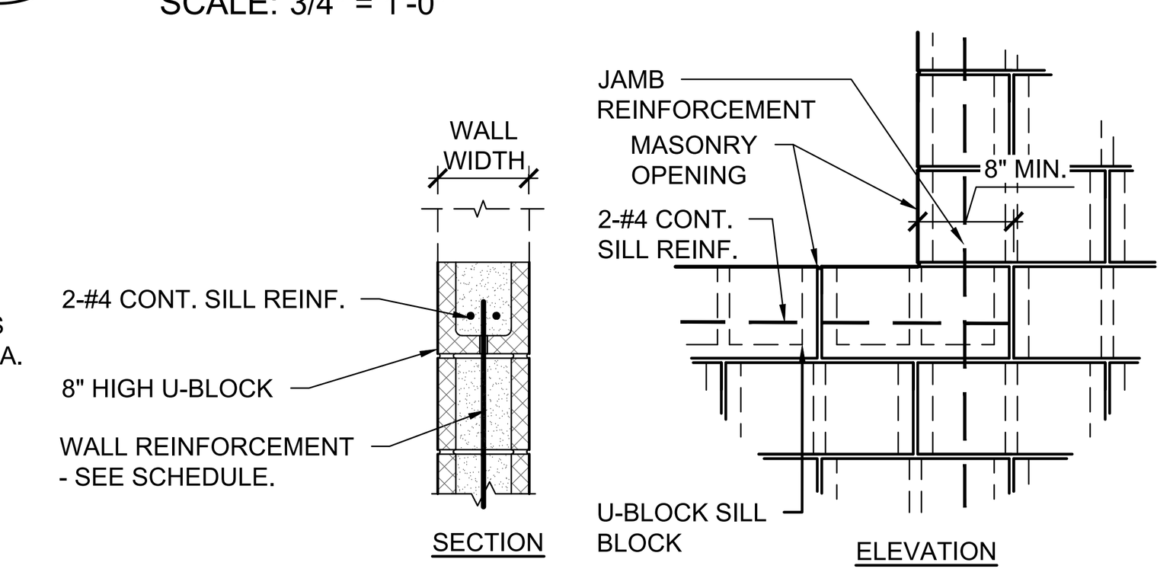
CMU LINTEL SCHEDULE				
MARK	WALL SIZE	MAX SPAN (X'-X")	SIZE	REINFORCEMENT
8L-1	8"	3'-4"	8" HIGH U-BLOCK	2-#4 BOTT.
8L-2	8"	6'-4"	16" HIGH U-BLOCK	2-#5 TOP & BOTT.
8L-3	8"	10'-8"	24" HIGH U-BLOCK	2-#5 TOP & BOTT.
8L-4	8"	12'-8"	7⅝"X24" CONCRETE	2-#6 TOP, MID, & BOTT. W/ #3 TIES @ 8" O.C.

WALL SCHEDULE NOTES:

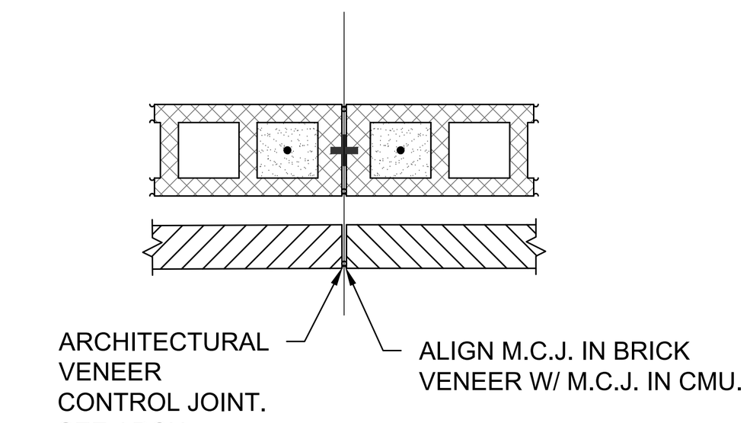
1. BEAR LINTELS 8" MINIMUM EACH END. PROVIDE VERTICAL REINFORCEMENT AND FULL HEIGHT GROUT (SAME SIZE REINFORCEMENT AS SPECIFIED IN WALL) AT EACH. JAMB CELL.
2. JAMB CELL REINFORCEMENT SHALL BE CONTINUOUS THROUGH U-BLOCK



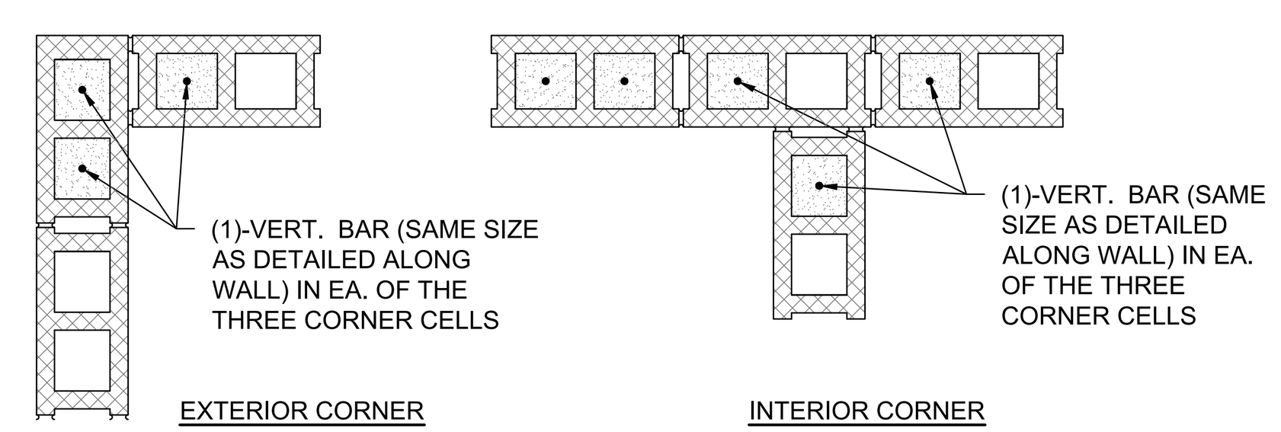
2.3 S0.2 **TYP. CMU JAMB REINF.**
SCALE: 3/4" = 1'-0"



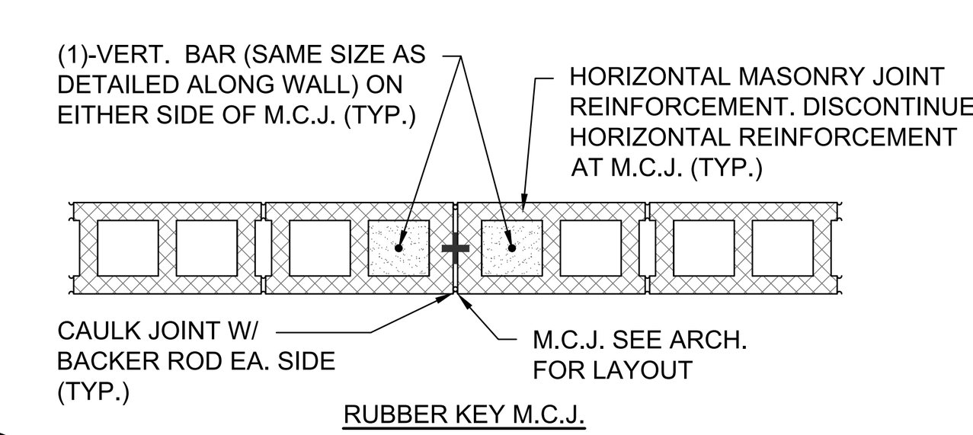
2.4 S0.2 **TYP. CMU SILL REINF.**
SCALE: 3/4" = 1'-0"



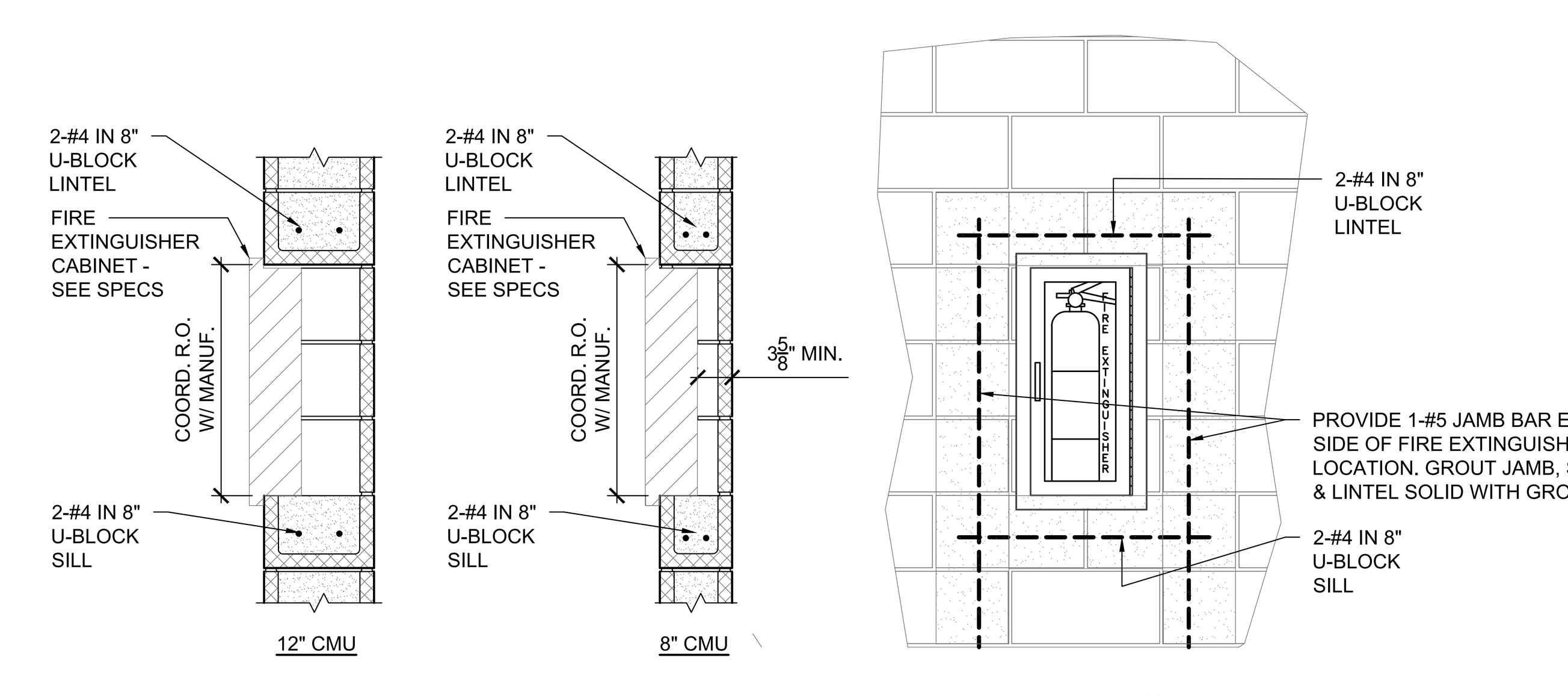
2.5 S0.2 **TYP. VENEER M.C.J.**
SCALE: 3/4" = 1'-0"



2.6 S0.2 **TYP. CMU CORNER REINF.**
SCALE: 3/4" = 1'-0"



2.7 S0.2 **TYP. M.C.J. DETAILS**
SCALE: 3/4" = 1'-0"



1.6 S0.2 **TYP. FIRE EXTINGUISHER IN CMU DETAIL**
SCALE: 3/4" = 1'-0"

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
TYPICAL SECTIONS, DETAILS, AND SCHEDULES

PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: S0.2

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

SHELTER DESIGN MEETS OR EXCEEDS ICC 500-2020 COMMUNITY SHELTER CRITERIA. SHELTER IS INTENDED FOR SCHOOL POPULOUS

HOLLOW CORE DESIGN:
ASSUMED SELF WEIGHT OF 12" HOLLOW CORE---------- 77 PSF
WEIGHT OF TOPPING SLAB -------------------------------------- 50 PSF
NON-SHELTER ROOF --- 0 PSF (ALL NON-SHELTER ROOF LOADING IS TRANSFERRED DIRECTLY TO WALL/BEAM)
CEILING COLLATERAL DL -- 10 PSF

TOTAL ASSUMED DEAD LOAD OF ROOF --------------------137 PSF

DESIGN CRITERIA :

ROOF LIVE LOAD -- 100 PSF (ICC 500-20, SEC. 303.3)
ESTIMATED IMPACT LOAD FROM STRUCTURE ABOVE -- 20 PSF (ICC 500-20, SEC 305.3.3)
TORNADO DESIGN WIND SPEED ----------------------------- 200 MPH (ICC 500-20, FIGURE 304.2(1))
VERTICAL MISSILE SPEED --------------------------------------- 2x4 @ 90 MPH (ICC 500-20, TABLE 305.1.1)
HORIZONTAL MISSILE SPEED ---------------------------------- 2x4 @ 60 MPH (ICC 500-20, TABLE 305.1.1)
HURRICANE DESIGN --- *NOT A HURRICANE PRONE REGION (ICC 500-20, FIGURE 304.2(2))
FLOOD DESIGN -- *OUTSIDE HIGH RISK HAZARD AREAS (ICC 500-20, SEC. 401)

MISSILE IMPACT TESTED SYSTEM USED (OR EXCEEDED):

HORIZONTAL:
FULLY GROUTED 8" CMU W/ #5 REBAR SPACED @ 48" O.C AND AT EVERY OPENING AND CORNER (FEMA P-361, FIGURE B8-13)

VERTICAL:
4" THICK CONCRETE SLAB WITH #4 @ 12" O.C. REBAR EACH WAY (FEMA P-361, FIGURE B8-16)

WIND PARAMETERS:

WIND DESIGN PER ASCE 7-16 COMPONENTS AND CLADDING PROCEDURE (ICC 500-20, SEC. 304.1)
BASIC WIND SPEED, V --- 200 MPH (ICC 500-20, FIGURE 304.2(1))
RISK CATEGORY --- IV (ASCE 7-16, TABLE 1.5-1)
WIND DIRECTIONALITY FACTOR, Kd ---------------------- 1.0 (ICC 500-20, SEC. 304.3)
EXPOSURE CATEGORY --------------------------------------- C (ICC 500-20, SEC. 304.4)
VELOCITY PRESSURE EXP. COEFFICIENT., Kz ------- 0.85 (ASCE 7-16, TABLE 26.10-1)
TOPOGRAPHIC FACTOR, Kzt --------------------------------1.0 (ICC 500-20, SEC. 304.5)
GUST EFFECT FACTOR, G ----------------------------------- 0.85 (ASCE 7-16 26.11.1)
ENCLOSURE CLASSIFICATION ----------------------------- PARTIALLY ENCLOSED (ICC 500-20, 304.6)
INTERNAL PRESSURE COEFFICIENT, GCpi------------ ± 0.55 (ICC 500-20, 304.6)

SEISMIC PARAMETERS:

SEISMIC USE GROUP --- IV
SEISMIC IMPORTANCE FACTOR (Ie)--------------------- 1.5
RESPONSE MODIFICATION FACTOR (R)--------------- 2 - ORDINARY REINFORCED MASONRY SHEAR WALLS
MAPPED SPECTRAL RESPONSE ACCELERATION:
Ss --- 0.093
S1 --- 0.063
SITE CLASS--- D
SPECTRAL RESPONSE COEFFICIENTS:
Sds --- 0.099
Sd1 --- 0.100
SEISMIC DESIGN CATEGORY ---------------------------- C

STORM SHELTER 12' CMU LINTEL SCHEDULE (12L-X)

MARK	WALL SIZE	MAX SPAN (X'-X")	SIZE	REINFORCEMENT	JAMBS (SEE 4/S0.3)
12L-1	12"	2'-0"	8" HIGH U-BLOCK	2-#5 BOTT.	2-#5 JAMB BARS
12L-2	12"	3'-4"	16" HIGH U-BLOCK	2-#5 TOP & BOTT.	2-#5 JAMB BARS
12L-3	12"	8'-4"	24" HIGH U-BLOCK	2-#6 TOP & BOTT.	2-#6 JAMB BARS IN EA. OF THE TWO ADJACENT CELLS (4 TOTAL EACH SIDE)

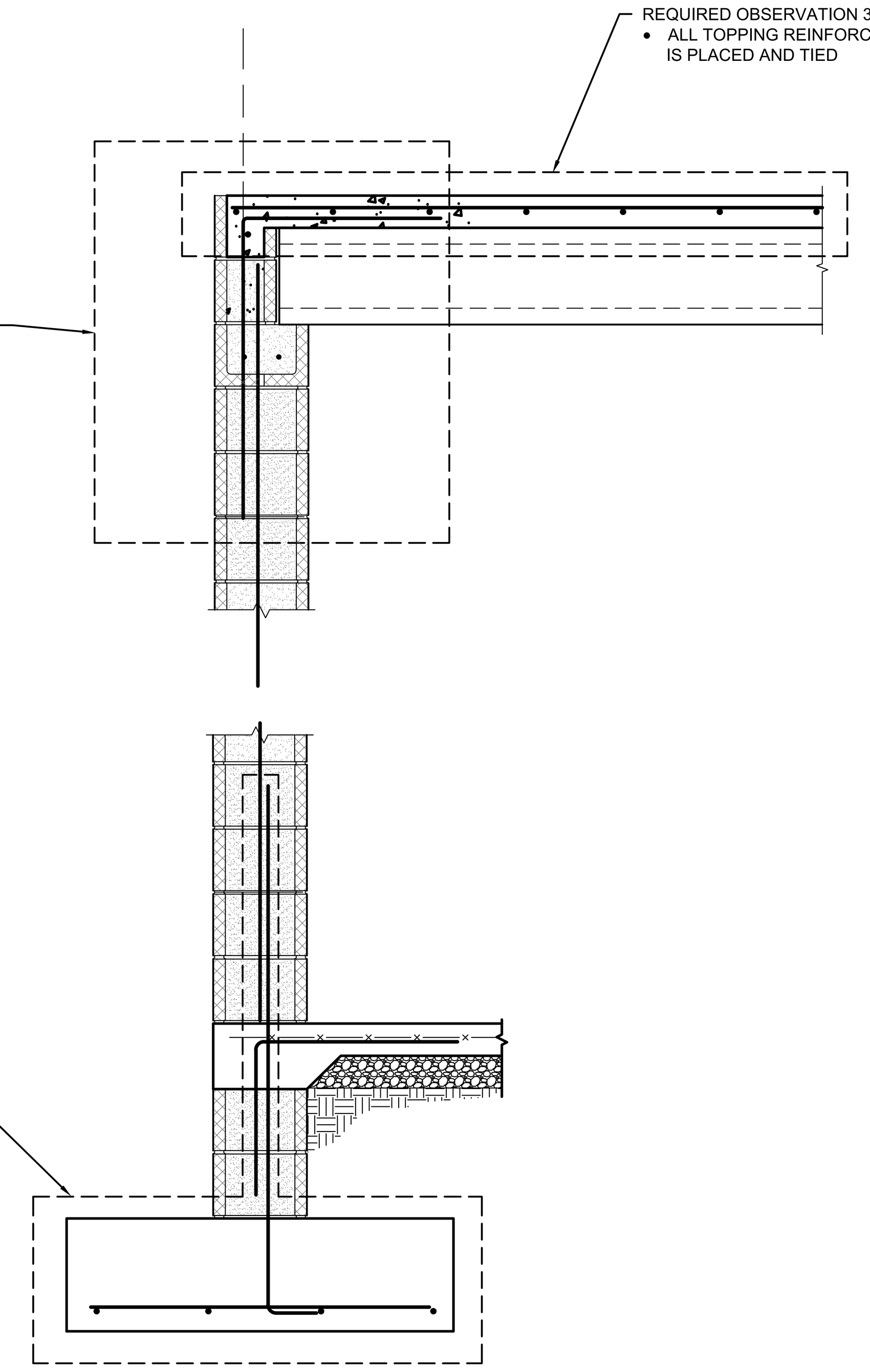
WALL SCHEDULE NOTES:
1. BEAR LINTELS 8" MINIMUM EACH END. PROVIDE VERTICAL REINFORCEMENT AND FULL HEIGHT GROUT (SAME SIZE REINFORCEMENT AS SPECIFIED IN WALL) AT EACH. JAMB CELL.
2. JAMB CELL REINFORCEMENT SHALL BE CONTINUOUS THROUGH U-BLOCK

SHELTER CMU WALL REINFORCEMENT SCHEDULE

MARK	LOCATION	SIZE	MAX HT.	VERT. REINF.
SW-1	EXTERIOR / INTERIOR LOAD BEARING	12" CMU	12'-0"*	#5 @ 8" O.C.

WALL SCHEDULE NOTES:
* WALL HEIGHT MEASURED FROM FINISH FLOOR TO TOP OF BOND BEAM
** WALL HEIGHT MEASURED FROM OUTSIDE FINISH GRADE TO TOP OF WALL/SLAB

1. WHERE WALLS OCCUR AND ARE NOT CALLED OUT ON THE PLAN, USE APPLICABLE SCHEDULE REINFORCEMENT. NOTIFY STRUCTURAL ENGINEER IF CONDITIONS EXIST THAT ARE OUTSIDE THE PARAMETERS OF THE SCHEDULE.
2. PROVIDE FOUNDATION STARTER DOWEL SAME SIZE AS VERTICAL BAR @ EA. VERTICAL BAR. LAP AS INDICATED IN SCHEDULE
3. PROVIDE CORNER REINFORCEMENT AS INDICATED IN TYPICAL CMU DETAILS.
4. PROVIDE VERTICAL BAR AT EA. DOOR AND WINDOW JAMB AS INDICATED IN TYPICAL CMU DETAILS.
5. PROVIDE VERTICAL BAR EA. SIDE OF MASONRY CONTROL JOINT (MCJ) AS INDICATED IN TYPICAL CMU DETAILS



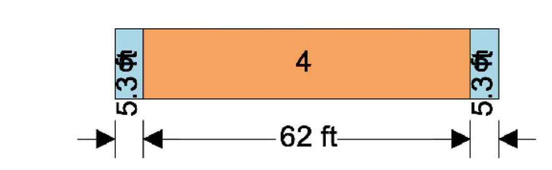
A
S0.3
SEOR REQ'D INSPECTION POINTS
SCALE: 3/4" = 1'-0"

Components and cladding pressures - Roof (Figure 30.3-2A)

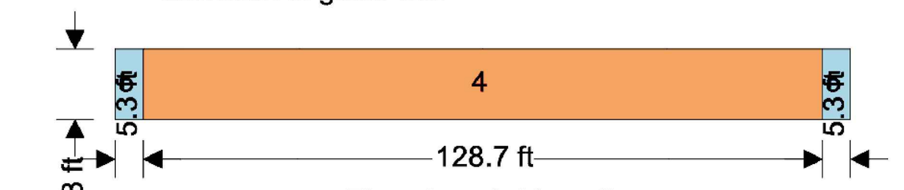
Component	Zone	Length (ft)	Width (ft)	Eff. area (ft²)	+GCp	-GCp	Pres (+ve) (psf)	Pres (-ve (psf)
<=10 sf	1	-	-	10.0	0.30	-1.70	41.8	-163.6
100 sf	1	-	-	100.0	0.20	-1.29	33.1	-127.8
200 sf	1	-	-	200.0	0.20	-1.16	33.1	-117.0
>500 sf	1	-	-	500.1	0.20	-1.00	33.1	-102.7
<=10 sf	1'	-	-	10.0	0.30	-0.90	41.8	-94.0
100 sf	1'	-	-	100.0	0.20	-0.90	33.1	-94.0
500 sf	1'	-	-	500.0	0.20	-0.55	33.1	-63.6
>1000 sf	1'	-	-	1000.1	0.20	-0.40	33.1	-50.5
<=10 sf	2	-	-	10.0	0.30	-2.30	41.8	-215.9
100 sf	2	-	-	100.0	0.20	-1.77	33.1	-169.8
200 sf	2	-	-	200.0	0.20	-1.61	33.1	-155.9
>500 sf	2	-	-	500.1	0.20	-1.40	33.1	-137.5
<=10 sf	3	-	-	10.0	0.30	-3.20	41.8	-294.2
100 sf	3	-	-	100.0	0.20	-2.14	33.1	-202.0
200 sf	3	-	-	200.0	0.20	-1.82	33.1	-174.2
>500 sf	3	-	-	500.1	0.20	-1.40	33.1	-137.5
120 SF	3	-	-	120.0	0.20	-2.06	33.1	-194.7
120 SF	2	-	-	120.0	0.20	-1.73	33.1	-166.1
120 SF	1	-	-	120.0	0.20	-1.26	33.1	-124.9
43 SF	3	-	-	43.0	0.24	-2.53	36.3	-235.8
43 SF	2	-	-	43.0	0.24	-1.96	36.3	-186.7
43 SF	1	-	-	43.0	0.24	-1.44	36.3	-140.9

Components and cladding pressures - Wall (Table 30.3-1)

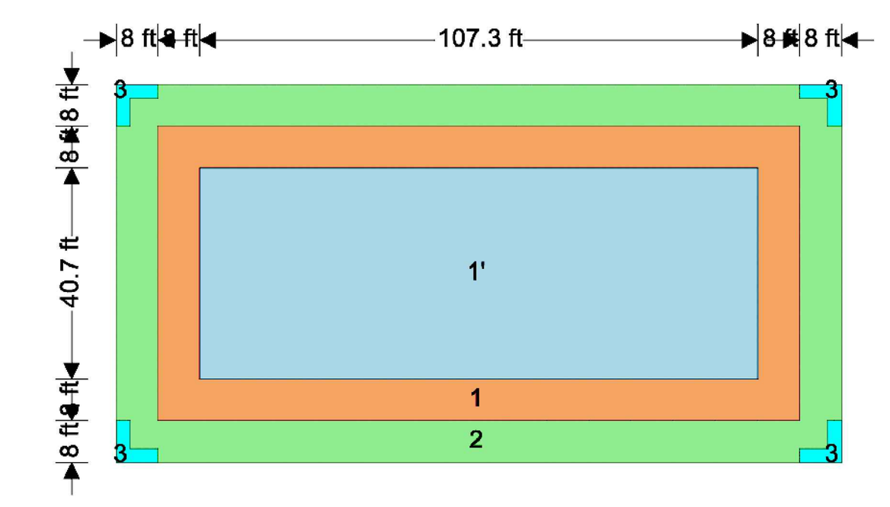
Component	Zone	Length (ft)	Width (ft)	Eff. area (ft²)	+GCp	-GCp	Pres (+ve) (psf)	Pres (-ve (psf)
<=10 sf	4	-	-	10.0	0.90	-0.99	94.0	-101.8
50 sf	4	-	-	50.0	0.79	-0.88	84.3	-92.2
200 sf	4	-	-	200.0	0.69	-0.78	76.0	-83.8
>500 sf	4	-	-	500.1	0.63	-0.72	70.5	-78.3
<=10 sf	5	-	-	10.0	0.90	-1.26	94.0	-125.3
50 sf	5	-	-	50.0	0.79	-1.04	84.3	-106.0
200 sf	5	-	-	200.0	0.69	-0.85	76.0	-89.3
>500 sf	5	-	-	500.1	0.63	-0.72	70.5	-78.3



Elevation of gable wall



Elevation of side wall



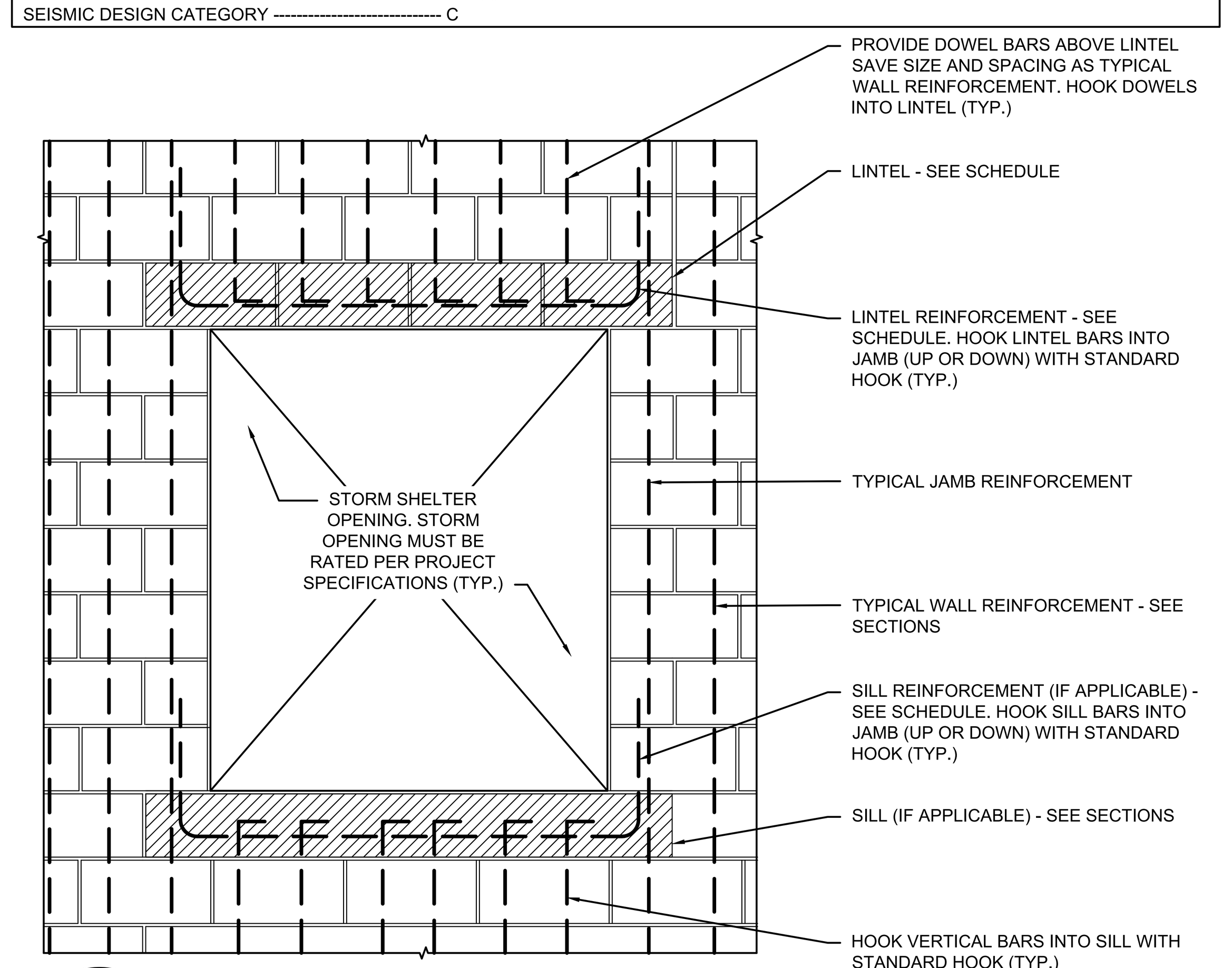
Plan on roof

CALCULATED STORM SHELTER NET ROOF UPLIFT
- RELIABLE DEAD LOAD = 127 PSF [HOLLOW CORE + 4" TOPPING]
- NET UPLIFT = 0.6(WL+RELIABLE DL)

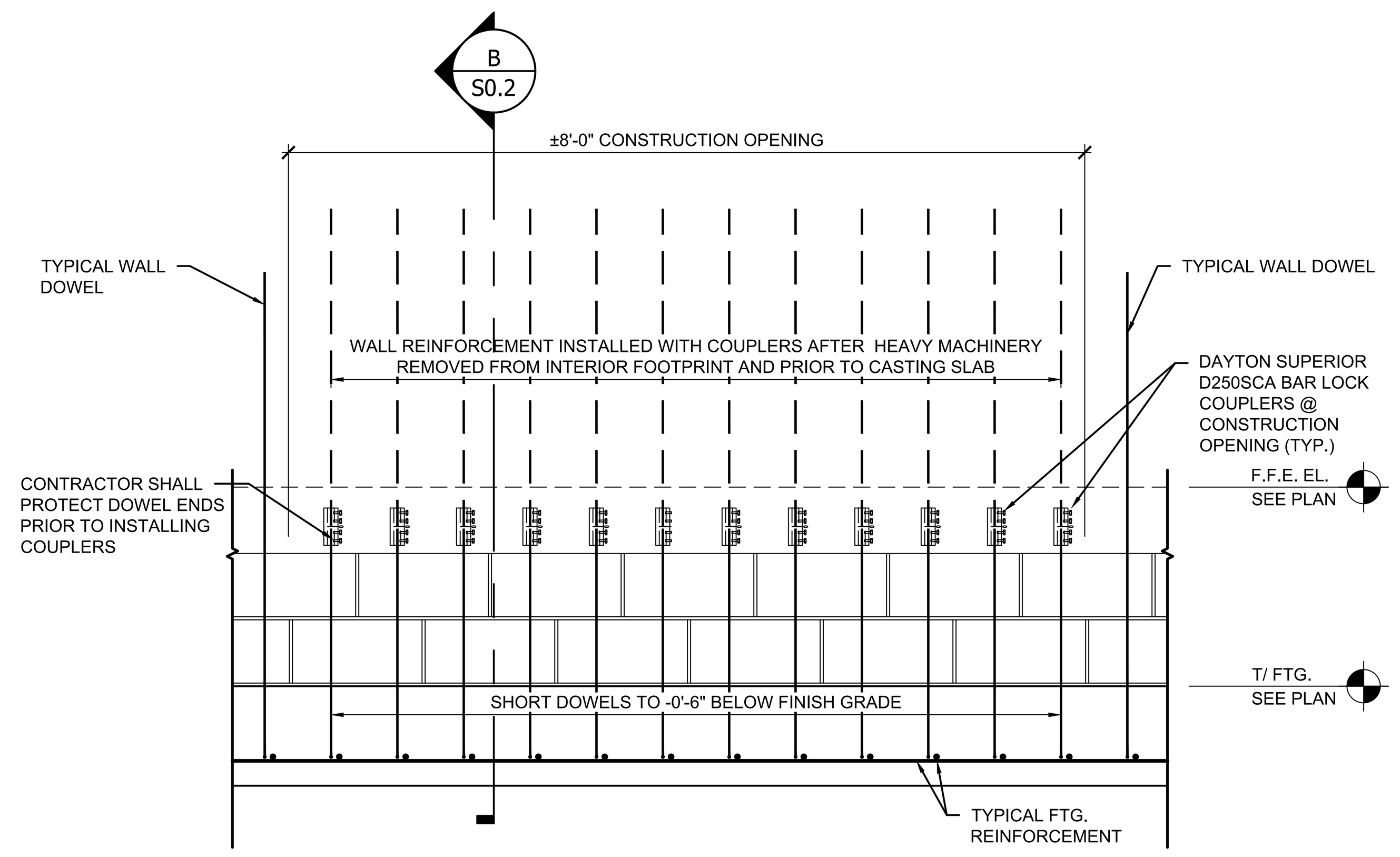
10'-8" SPANS
Aeff = 43SF
ZONE 1 : NET UPLIFT = -8.3 PSF
ZONE 2 : NET UPLIFT = -35.8 PSF
ZONE 3 : NET UPLIFT = -65.3 PSF

30'-0" SPANS
Aeff = 120SF
ZONE 1 : NET UPLIFT = -16.0 PSF (MIN.)
ZONE 2 : NET UPLIFT = -23.5 PSF
ZONE 3 : NET UPLIFT = -40.6 PSF

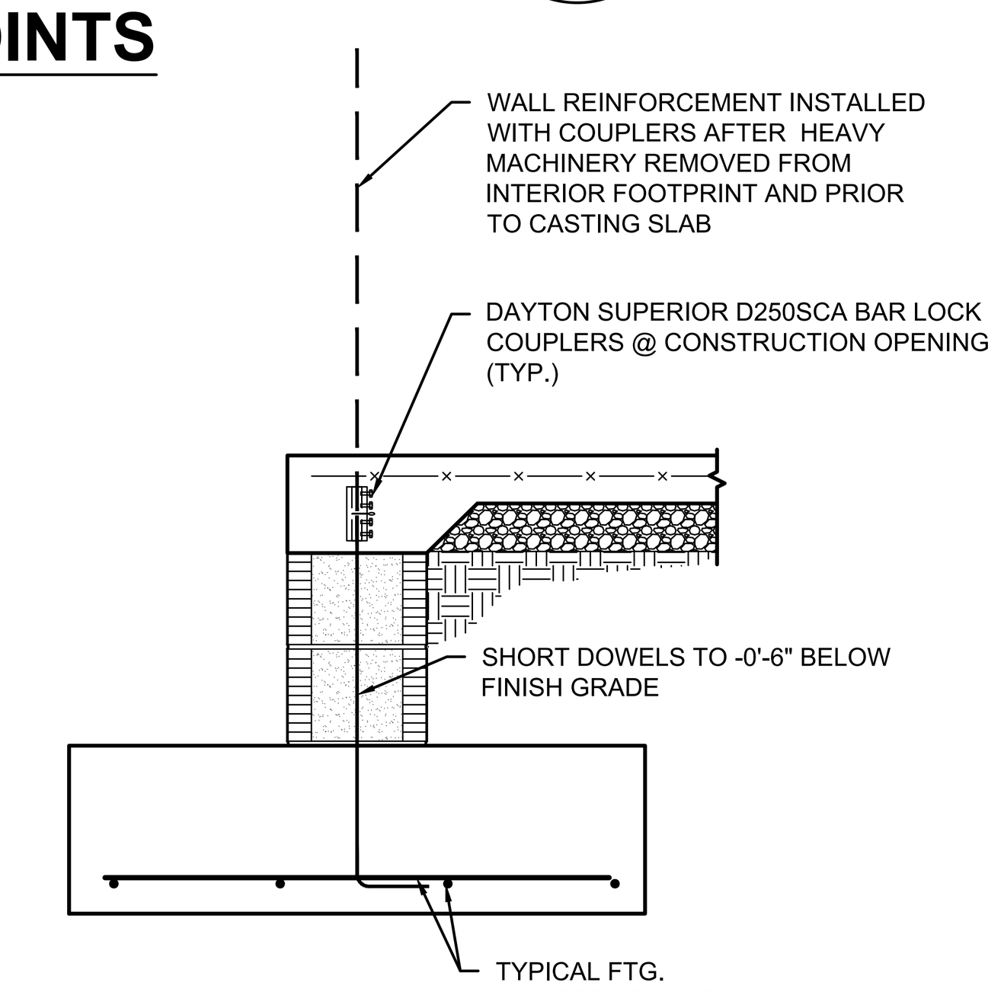
9
S0.3
ULTIMATE SHELTER C&C PRESSURE TABLES & DIAGRAMS
SCALE: 3/4" = 1'-0"



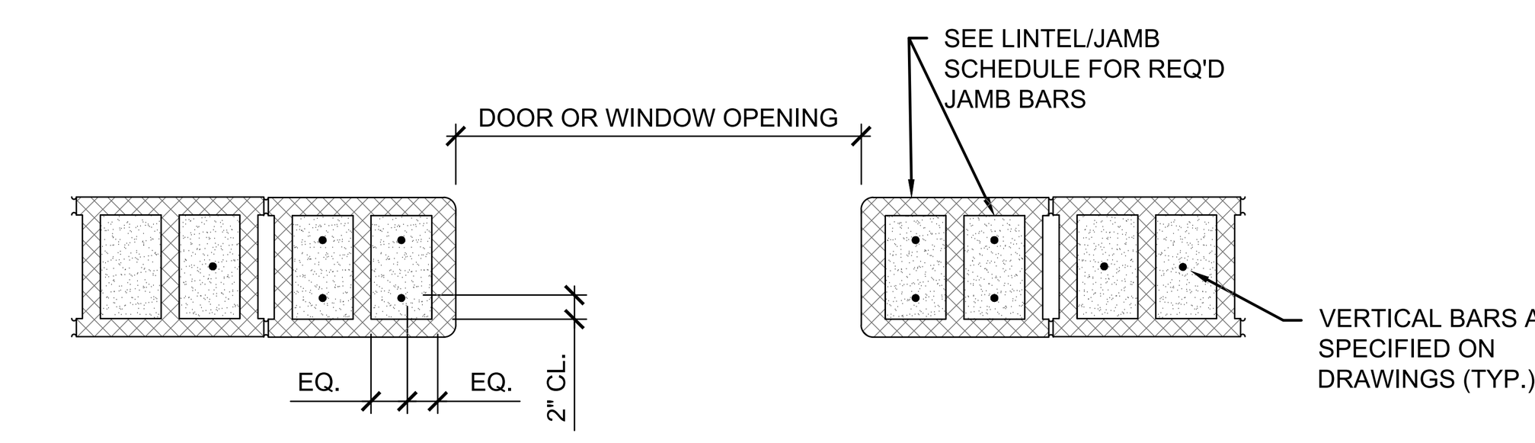
1
S0.3
TYP. SHELTER OPENING ELEVATION
SCALE: 3/4" = 1'-0"



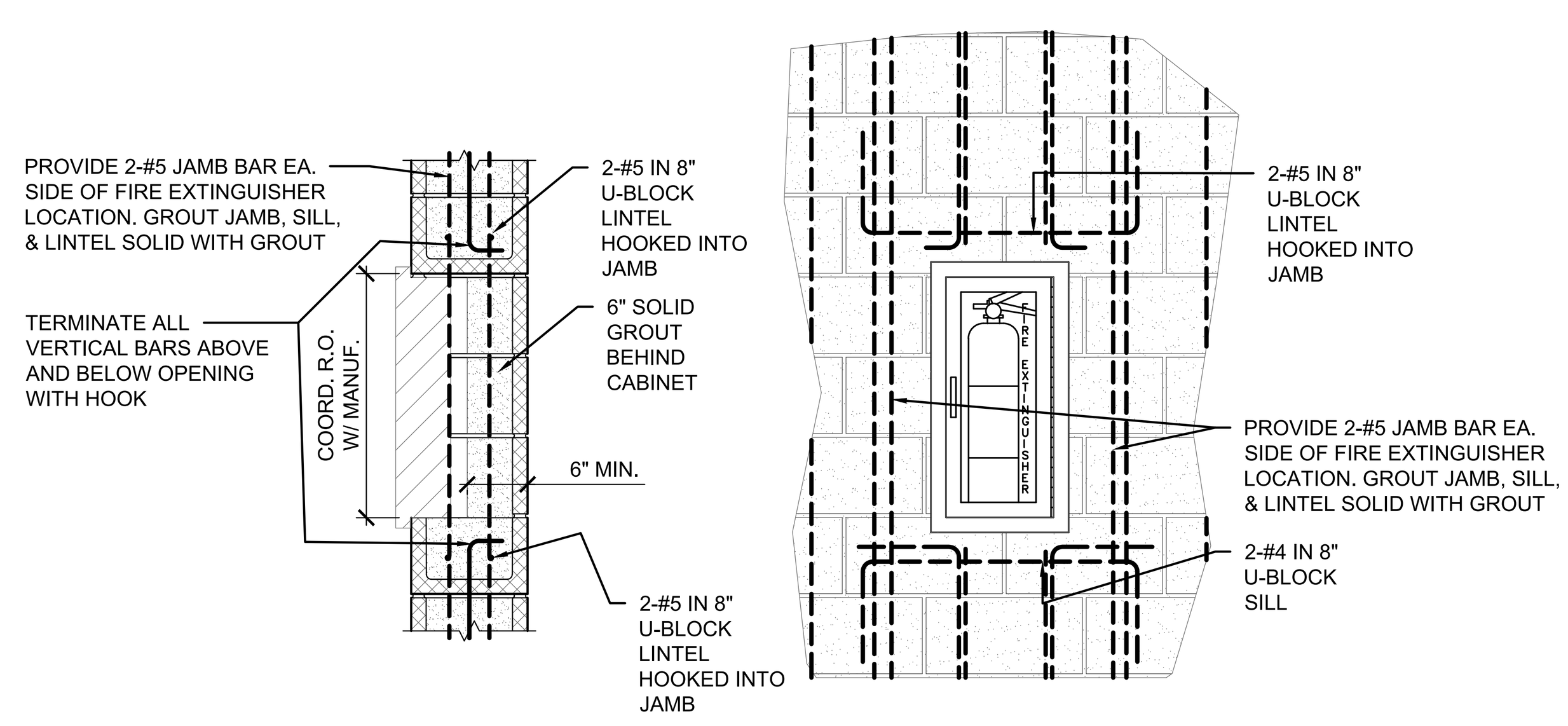
2
S0.3
TYP. CONSTRUCTION OPENING
SCALE: NTS



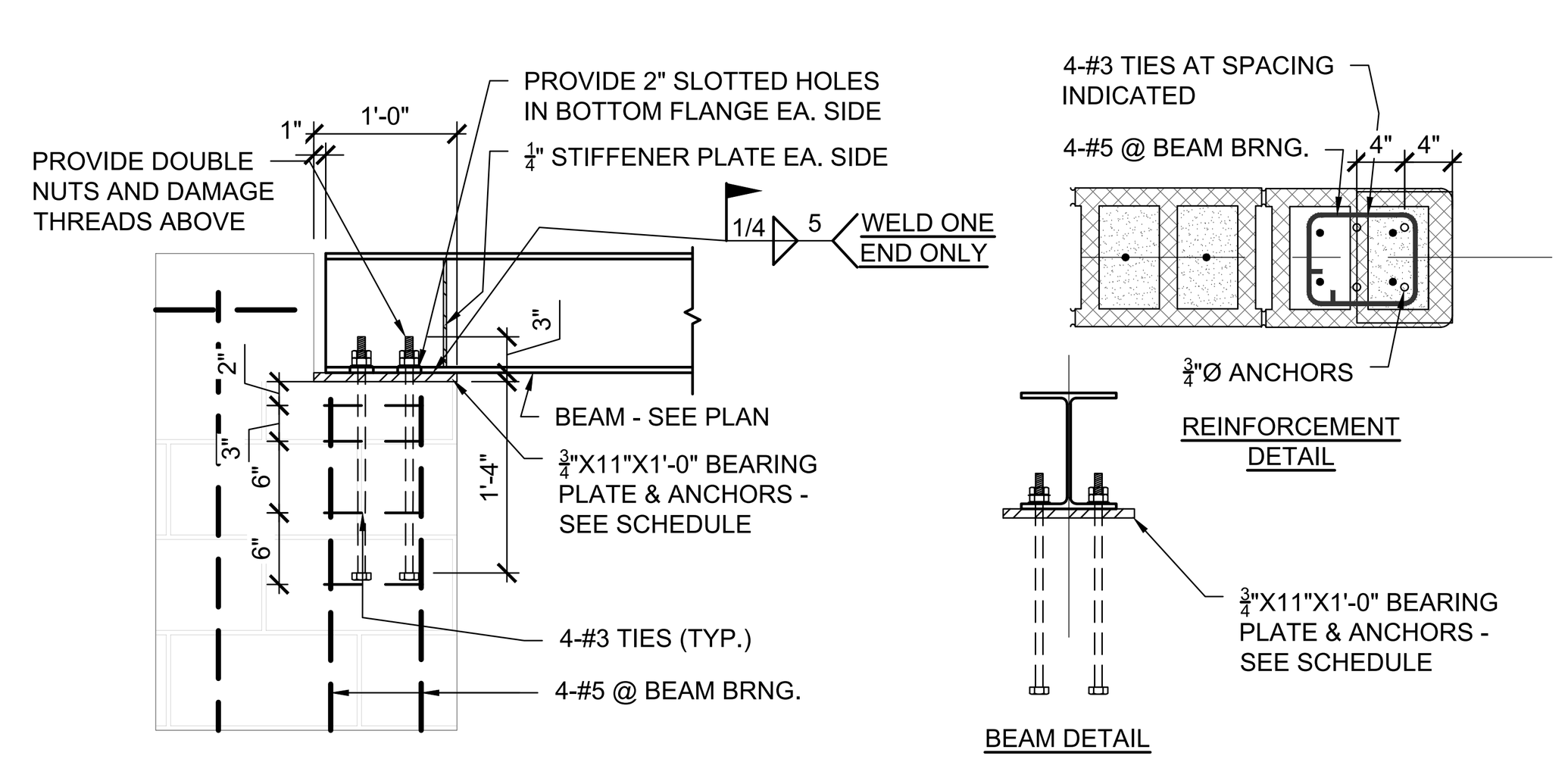
B
S0.3
SECTION
SCALE: NTS



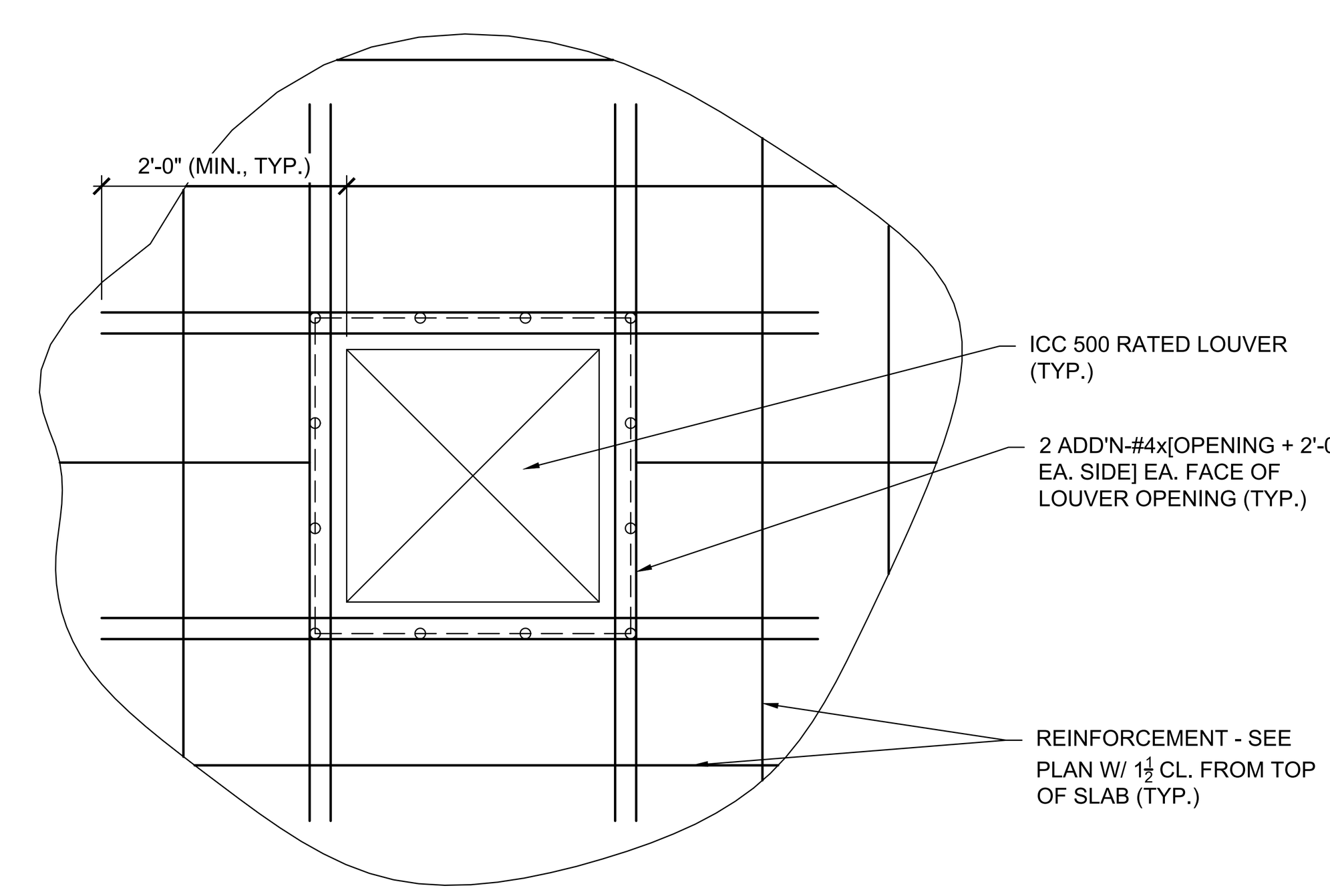
4
S0.3
SHELTER JAMB DETAIL
SCALE: 3/4" = 1'-0"



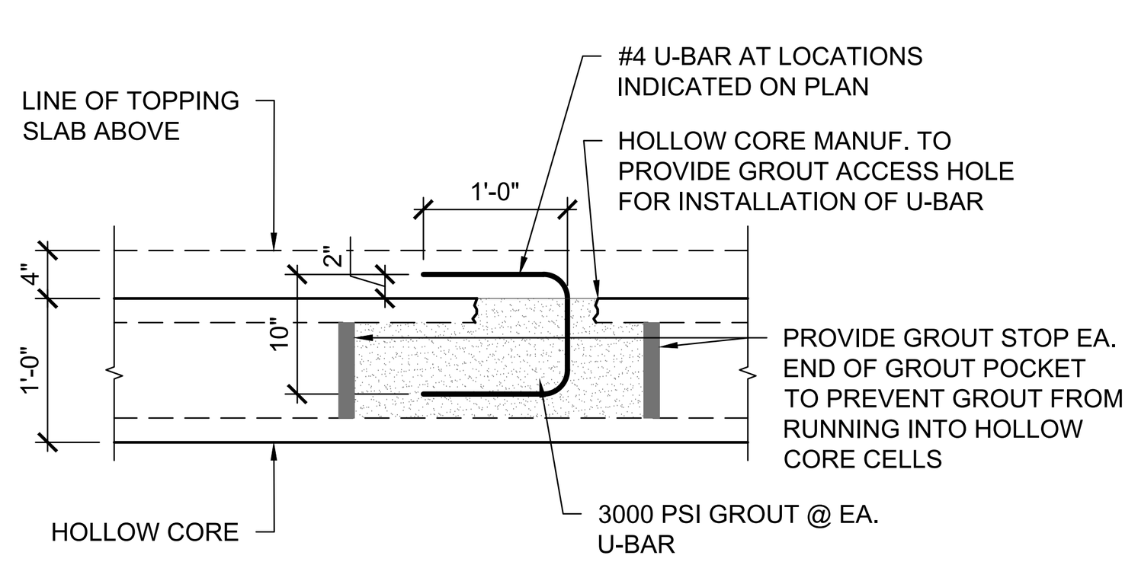
6
S0.3
TYP. FIRE EXTINGUISHER IN SHELTER WALL DETAIL
SCALE: 3/4" = 1'-0"



7
S0.3
SHELTER BEAM BEARING DETAIL
SCALE: 3/4" = 1'-0"



10
S0.3
SHELTER ROOF OPENING DETAIL
SCALE: 3/4" = 1'-0"



8
S0.3
U-BAR GROUT DETAIL
SCALE: 3/4" = 1'-0"

DAY STRUCTURES
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ANDALUSIA, ALABAMA

SHEET TITLE:
SHELTER DESIGN INFORMATION AND DETAILS

PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
S0.3

REQUIRED STRUCTURAL OBSERVATIONS FOR STRUCTURE IN ACCORDANCE WITH IBC 1704.6

IBC REFERENCE	CONDITION REQUIRING STRUCTURAL OBSERVATION	DOES CONDITION EXIST ON THIS PROJECT (Y/N)	ADDITIONAL OBSERVATIONS REQUIRED
1704.6.1.1	RISK CAT. III OR IV	Y	-
1704.6.1.2	HIGH RISE BUILDING	N	
1704.6.1.3	SEISMIC DESIGN CATEGORY E & GREATER THAN 2 STORIES	N	
1704.6.1.4	ADDITIONAL OBSERVATIONS REQUIRED BY SEOR	N	SEE PROJECT DRAWINGS
1704.6.1.5	ADDITIONAL OBSERVATION REQUIRED BY BUILDING OFFICIAL	VERIFY WITH AUTHORITY HAVING JURISDICTION	STORM SHELTER AS INDICATED ON DRAWINGS

DESIGNATED SEISMIC / WIND RESISTANCE SYSTEM

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED WIND RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.3
1705.12.1	WIND EXPOSURE B, WHERE V=150MPH OR GREATER	N	
1705.12.2	WIND EXPOSURE C OR D WHERE V=140 MPH OR GREATER	N	

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED SEISMIC RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.2
1705.13.1.1	STRUCTURAL STEEL SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N	
1705.13.1.2	STRUCTURAL STEEL ELEMENTS FOR THE SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N	

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING			AWS D1.4, ACI 318: 26.6.4
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	
B. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"		X	
C. INSPECT ALL OTHER WELDS	X		
3. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			ACI 318: 17.8.2.4,17.8.2
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A		X	
5. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: 19, 26.4.3, 26.4.4, IBC 1904.1,1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C31, ASTM C172, ACI 318: 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE			ACI 318: 26.10
A. APPLICATION OF PRESTRESSING FORCES	X		
B. GROUTING OF BONDED PRESTRESSING TENDONS	X		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.10
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTION OR REINFORCEMENT AT JOISTS CLASSIFIED AS MODERATE OR HIGH DEFORMABLITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C,D,E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD			ACI 318: 26.13.1.3 ACI 550.5
A. INSTALLATION OF THE EMBEDDED PARTS	X		
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X		
C. COMPLETION OF CONNECTIONS IN THE FIELD	X		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X	ACI 318: 26.13.1.3
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: 26.11.2
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.		X	ACI 318 26.11.1.2(b)

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PREVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS PREPARED PROPERLY.	X	
CONCEALED CONNECTIONS		X

SCHEDULE OF SPECIAL INSPECTIONS PER IBC

IBC REFERENCE	MATERIAL / SYSTEMS / COMPONENTS / WORK	REQ'D (Y/N)	TYPE / EXTENT INSPECTION OR TEST REFERENCED STANDARD	PERIODIC / CONTINUOUS	ADDITIONAL REQUIREMENTS
SPECIAL CASES					
1705.1.1.1	MATERIAL & SYSTEMS ALTERNATIVES TO THAT PRESCRIBED BY CODE	N		P	
1705.1.1.2	UNUSUAL DESIGN APPLICATIONS	N		P	
1705.1.1.3	MATERIALS & SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS	Y	ALL PRE-ENGINEERED AND DELEGATED ENGINEER ITEMS	P	
STEEL CONSTRUCTION					
1705.2.1	STRUCTURAL STEEL	Y	AISC 360 REQUIREMENTS	SEE AISC CHAPTER N	
1705.2.2	COLD-FORMED STEEL DECK	Y	SDI QA/QC REQUIREMENTS	SEE SDI QC/QA APPENDIX 1	
1705.2.3	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	N	SEE IBC TABLE 1705.2.3		
1705.3.4	COLD-FORMED TRUSSES SPANNING 60' OR GREATER	Y	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
CONCRETE CONSTRUCTION					
1705.3.1	WELDING OF REINFORCING BARS	Y	AWS D1.4 REQUIREMENTS	C	
1705.3.2	MATERIAL TEST	Y	ACI 318 CH. 19 & 20 REQUIREMENTS	SEE SPEC	
MASONRY CONSTRUCTION					
1705.4.1	GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV	N	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
1705.4.2	VERTICAL MASONRY FOUNDATION ELEMENTS	Y	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
WOOD CONSTRUCTION					
1705.5.1	HIGH LOAD DIAPHRAGMS	N	VERIFY ALL CONSTRUCTION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS	P	
1705.5.2	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60' OR GREATER	N	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
1705.5.3	MASS TIMBER CONSTRUCTION (TYPE IV-A, IV-B, AND IV-C CONSTRUCTION)	N		P	
SOILS					
1705.6	SPECIAL INSPECTION AND TEST OF EXISTING SITE SOIL CONDITIONS	Y		P	
FOUNDATIONS					
1705.7	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF DRIVEN DEEP FOUNDATION ELEMENTS	N		C	
1705.8	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	N		C	
1705.9	EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE, & ANY OTHER REQUIRED DATA	N		C	
1705.10	WHEN THERE IS A REASONABLE DOUBT AS TO THE STRUCTURAL INTEGRITY OF A DEEP FOUNDATION ELEMENT, AN ENGINEERING ASSESSMENT SHALL BE REQUIRED	N		C	
FABRICATED ITEMS					
1705.11	SPECIAL INSPECTION OF FABRICATED ITEMS IN ACCORDANCE WITH IBC 1704.2.5	Y	ALL PRE-ENGINEERED AND DELEGATED ENGINEER ITEMS	P	
SPECIAL INSPECTIONS FOR WIND RESISTANCE					
1705.12.1	STRUCTURAL WOOD	N		P	
	FIELD GLUING	N		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MWFRS	Y		P	
1705.12.2	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	Y		P	
	WELDING	Y		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.12.3.1	ROOF COVERING, ROOF DECKING, AND ROOF FRAMING CONNECTIONS	Y		P	
1705.12.3.1	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING	Y		P	
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
1705.13.1	STRUCTURAL STEEL	N		P	
1705.13.1.1	SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N		P	NOTE EXCEPTIONS
1705.13.2	SFRS ASSIGNED TO DESIGN CATEGORIES C, D, E, AND F	N		P	
	FIELD GLUING	N		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MSFRS	N		P	
1705.13.3	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	N		P	
	WELDING	N		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.13.4	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.13.5	ARCHITECTURAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.6	PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.7	STORAGE RACKS	N		P	
1705.13.8	SEISMIC ISOLATIONS SYSTEMS	N		P	
1705.13.9	COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES	N		P	
TESTING FOR SEISMIC RESISTANCE					
1705.14.1	STRUCTURAL STEEL	N		P	
1705.14.1.1	SEISMIC FORCE-RESISTING SYSTEMS	N		P	NOTE EXCEPTIONS
1705.14.1.2	STRUCTURAL STEEL ELEMENTS	N		P	
1705.14.2	NONSTRUCTURAL COMPONENTS	N		P	
1705.14.3	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.14.4	SEISMIC ISOLATION SYSTEMS	N		P	

CONCRETE INSPECTIONS AND TEST SHALL NOT BE REQUIRED FOR:
1. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK
2. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE
2.1. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION
2.2. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7
2.3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH (f'c) NOT MORE THAN 2500 PSI, REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
3. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI
4. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2
5. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE

MASONRY SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:
1. EMPIRICALLY DESIGNED MASONRY, GLASS UNIT OR MASONRY VENEER DESIGNED IN ACCORDANCE WITH SECTIONS 2109, SECTION 2110, OR CHAPTER 14, RESPECTIVELY, WHERE THEY ARE PART OF THE A STRUCTURE CLASSIFIED AS RISK CATEGORY I, II, OR III.
2. MASONRY FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.3(1), 1807.1.6.3(2),1807.1.6.3(3), or 1807.1.6.3(4).
3. MASONRY FIREPLACES, MASONRY HEATERS OR MASONRY CHIMNEYS INSTALLED OR CONSTRUCTED IN ACCORDANCE WITH SECTION 2111, 2112, OR 2113, RESPECTIVELY

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SPECIAL INSPECTION SCHEDULE

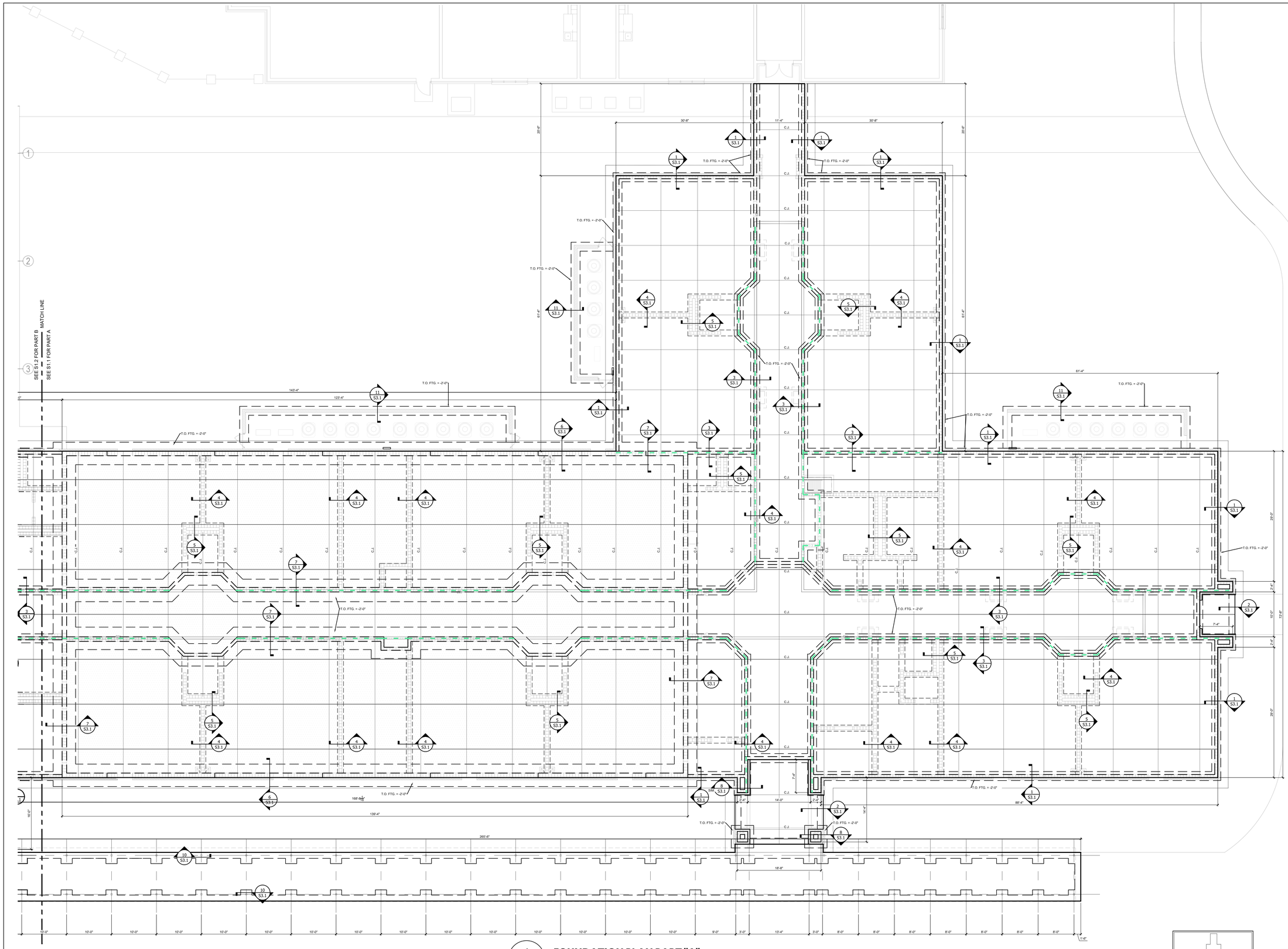
ALABAMA LICENSED PROFESSIONAL ENGINEER
1.14.26
No. 38070
TIMOTHY N. SANFORD

PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

JOB NO. 24-304
SHEET NO:
S0.4

0 1" 2"



FOUNDATION PLAN PART "A"

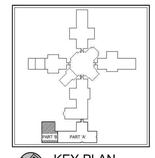
1 / S1.1

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. FINISH FLOOR REF. DATUM ELEVATION IS TO THE TOP OF THE PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.1 - S0.3 FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE S0.4 FOR SPECIAL INSPECTION SCHEDULE
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL TOP OF FOOTING ELEVATIONS SHOWN ON DRAWINGS WITH FINAL GRADING PLAN. MINIMUM COVER FROM TOP OF FOOTING TO OUTSIDE FINISH GRADE SHALL BE 1'-0".
7. COORDINATE ALL SLOPES, FLOOR DRAINS, STEPS, RECESSES, ATTIC ACCESS, PLUMBING FIXTURES, AND EXTERIOR SPRINKLER ROOMS W/ CONTRACT DRAWINGS.

INDICATES EXTENT OF STORM SHELTER



KEY PLAN
SCALE: NTS

TRUE NORTH

LATHAN McKEE ARCHITECTS

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
FOUNDATION PLAN PART "A"

ALABAMA LICENSED 14,267 PROFESSIONAL ENGINEER TIMOTHY N. SANDERS

PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

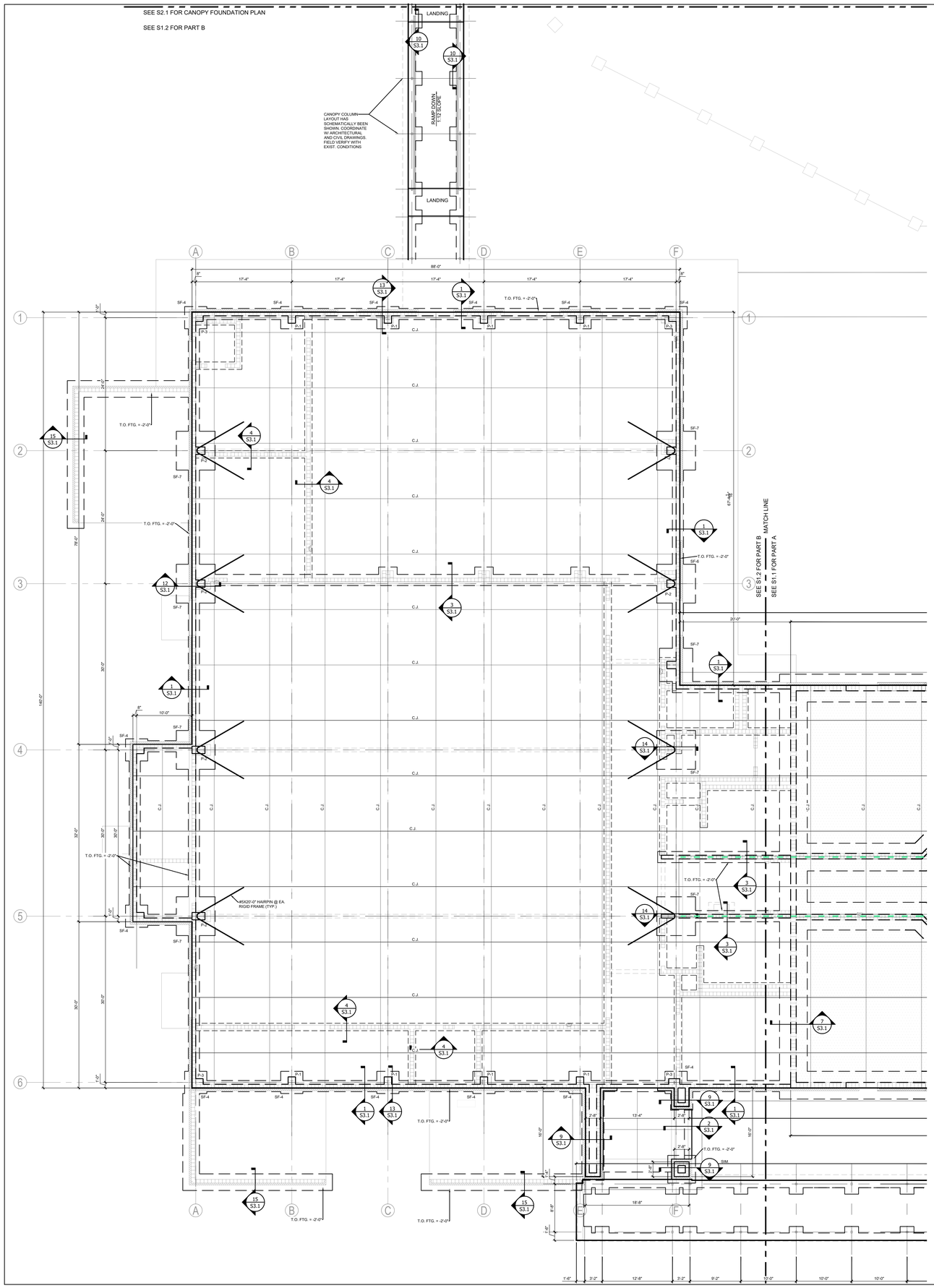
JOB NO. 24-304

SHEET NO: S1.1

0 1" 2"

SEE S2.1 FOR CANOPY FOUNDATION PLAN

SEE S1.2 FOR PART B

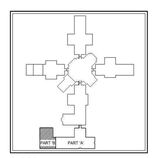


1 / S1.2 **FOUNDATION PLAN PART "B"**

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. FINISH FLOOR REF. DATUM ELEVATION IS TO THE TOP OF THE PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.1 - S0.3 FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE S0.4 FOR SPECIAL INSPECTION SCHEDULE
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL TOP OF FOOTING ELEVATIONS SHOWN ON DRAWINGS WITH FINAL GRADING PLAN. MINIMUM COVER FROM TOP OF FOOTING TO OUTSIDE FINISH GRADE SHALL BE 1'-0".
7. COORDINATE ALL SLOPES, FLOOR DRAINS, STEPS, RECESSES, ATTIC ACCESS, PLUMBING FIXTURES, AND EXTERIOR SPRINKLER ROOMS W/ CONTRACT DRAWINGS.



KEY PLAN
SCALE: NTS

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LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
FOUNDATION PLAN PART "B"

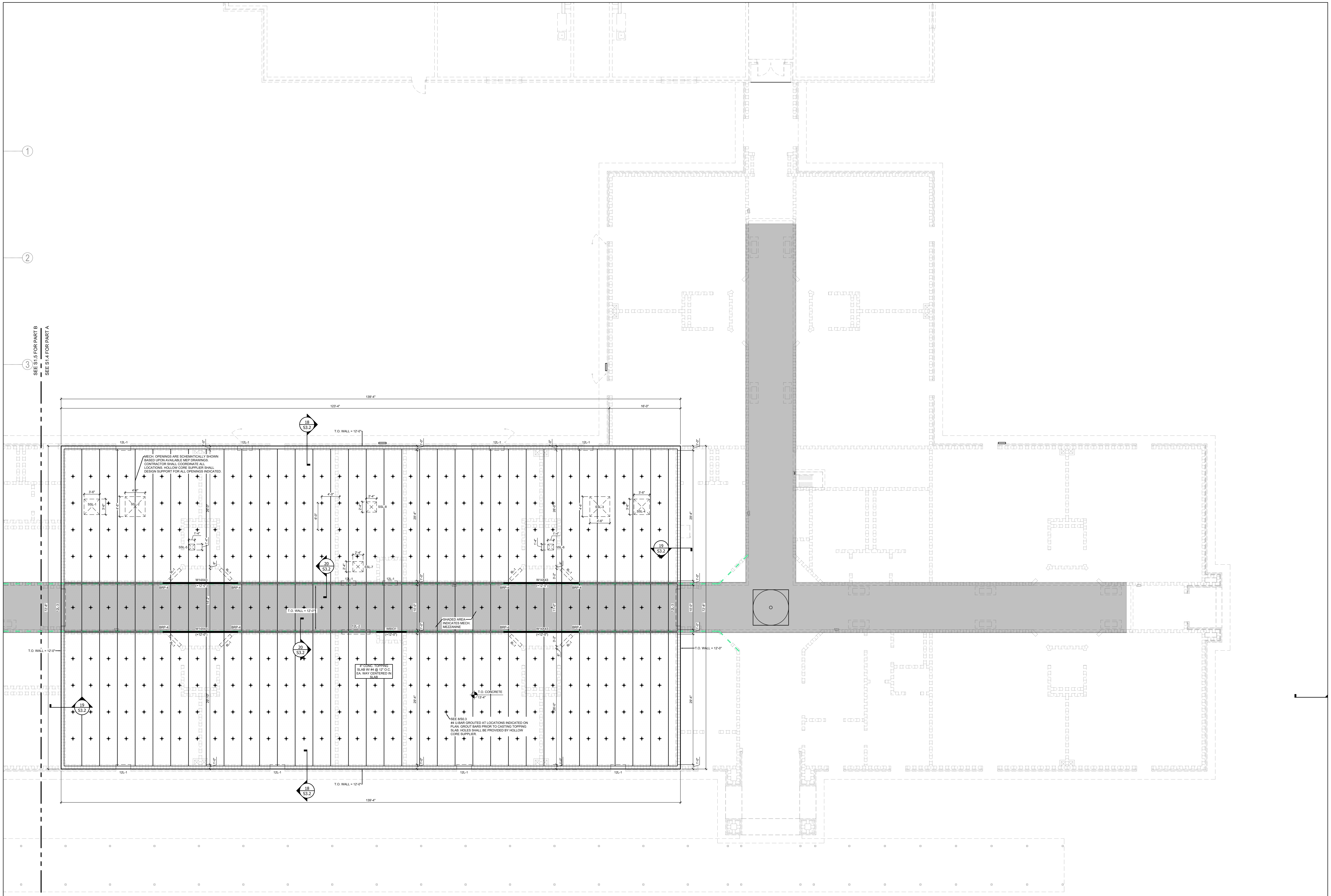
ALABAMA LICENSED 1.14.26 No. 38570 PROFESSIONAL ENGINEER TIMOTHY N. SANDERS

PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO: S1.2

0 1" 2"



SHELTER CEILING FRAMING PLAN (PART "A")

1 / S1.3

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0".
2. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.X FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
5. (+X'-X") INDICATES TOP OF STEEL (T.O.S) FROM REF. DATUM PLANE.
6. ENGINEER OF RECORD SHALL REVIEW AND APPROVE HOLLOW CORE SHOP DRAWINGS AND CALCULATIONS PRIOR TO FABRICATION OF HOLLOW CORE SLAB.

INDICATES EXTENT OF STORM SHELTER

KEY PLAN
SCALE: NTS

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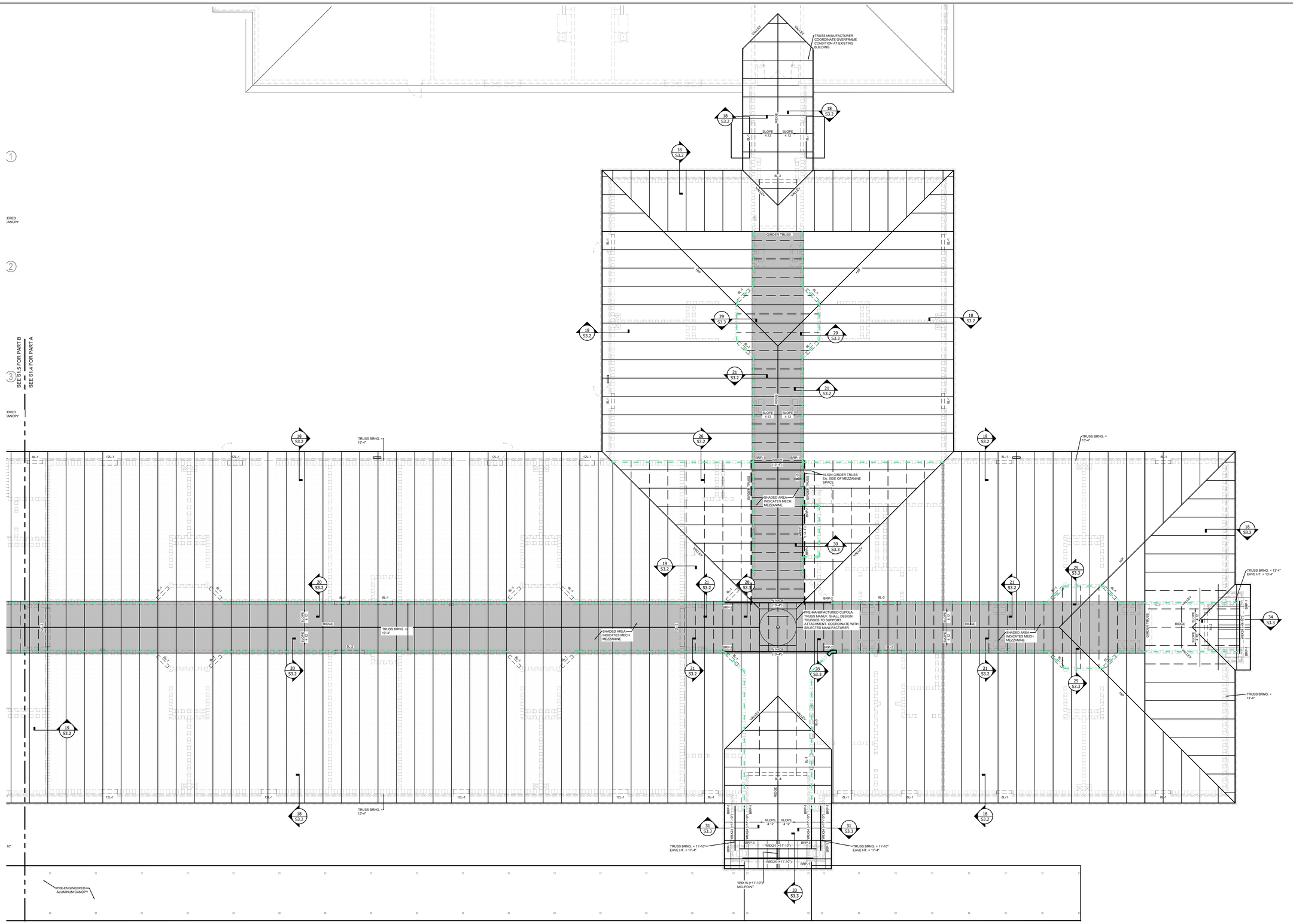
LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SHELTER CEILING FRAMING PLAN

PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
S1.3



ROOF FRAMING PLAN PART "A"

1 / S1.4

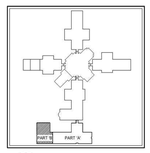
8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:

1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0".
2. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.X FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
5. (+X'-X") INDICATES TOP OF STEEL (T.O.S) FROM REF. DATUM PLANE.

INDICATES EXTENT OF STORM SHELTER



KEY PLAN
SCALE: NTS

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
ROOF FRAMING PLAN PART "A"

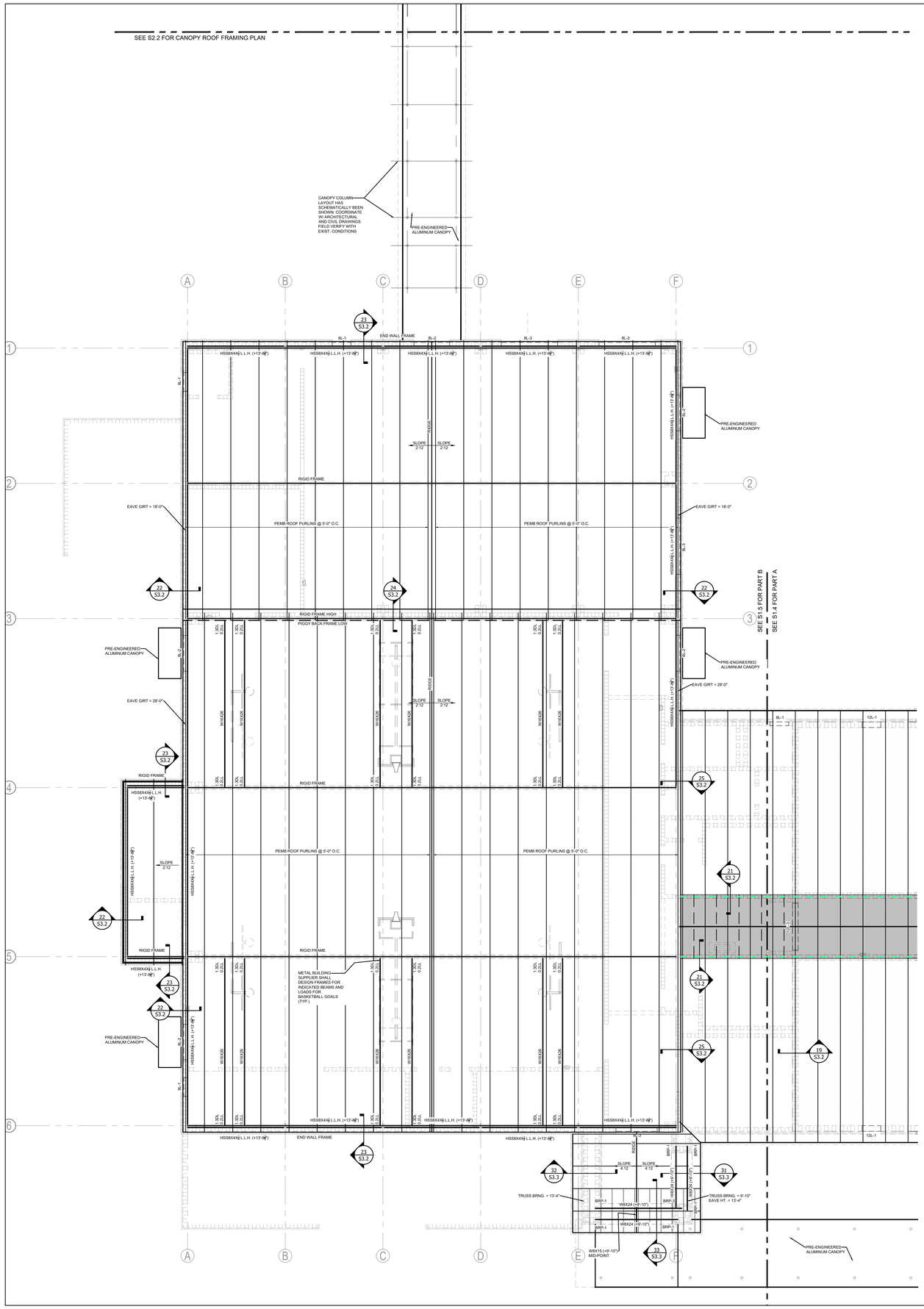
ALABAMA LICENSED PROFESSIONAL ENGINEER TIMOTHY N. SANDERS 1.14.26

PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO: S1.4

0 1" 2"



1 S1.5

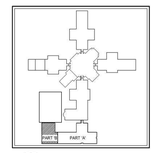
ROOF FRAMING PLAN PART "B"

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:

1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0".
2. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.X FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
5. (+X'-X") INDICATES TOP OF STEEL (T.O.S) FROM REF. DATUM PLANE.



KEY PLAN
SCALE: NTS

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LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
ROOF FRAMING PLAN PART "B"

ALABAMA LICENSED 1.14.26 No. 30070 PROFESSIONAL ENGINEER TIMOTHY N. SANDERS

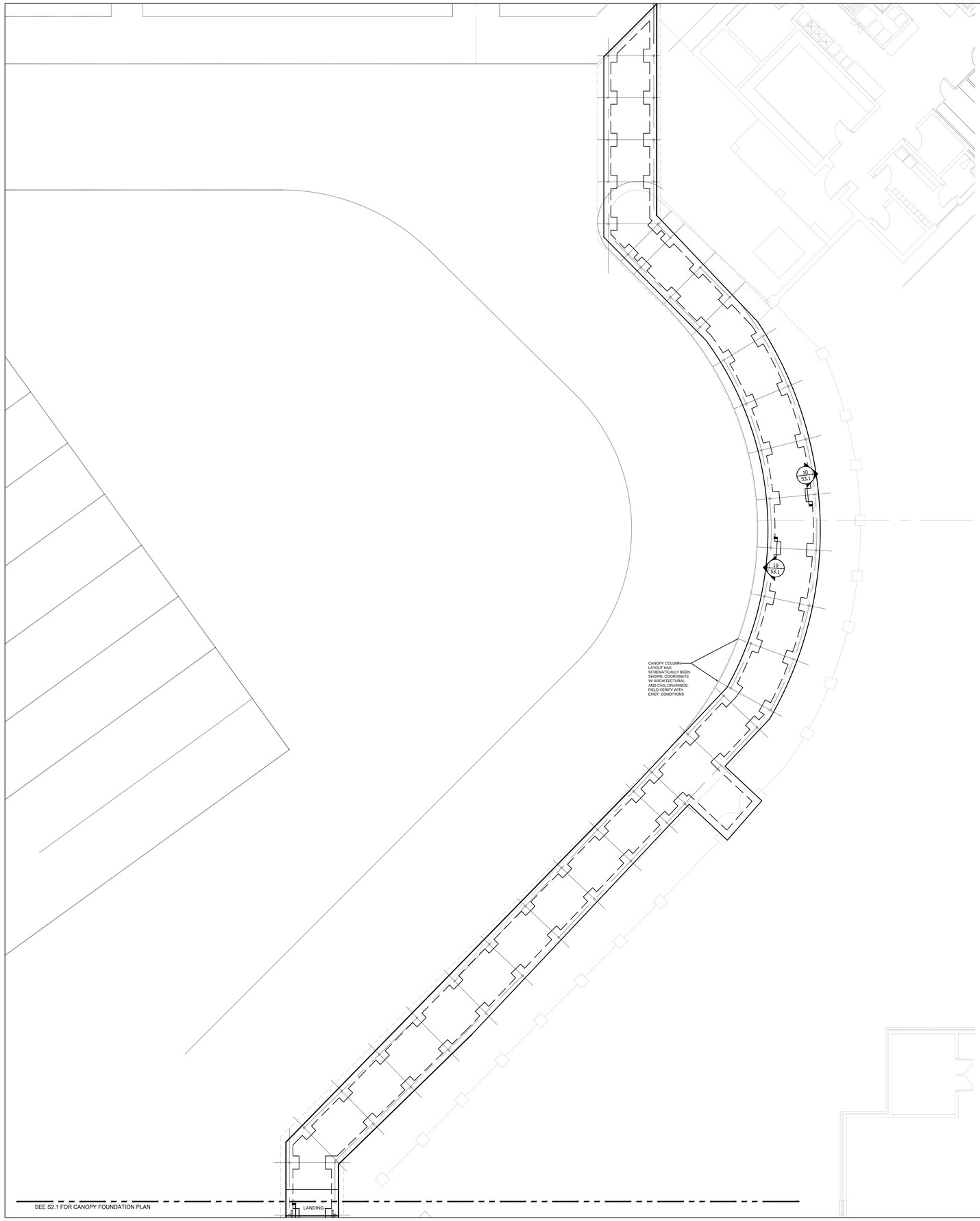
PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

S1.5

0 1" 2"

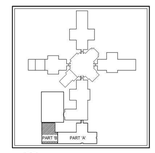


1 / S2.1 **CANOPY FOUNDATION PLAN**

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. FINISH FLOOR REF. DATUM ELEVATION IS TO THE TOP OF THE PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.1 - S0.3 FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE S0.4 FOR SPECIAL INSPECTION SCHEDULE
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN



KEY PLAN
SCALE: NTS

LATHAN
McKEE
ARCHITECTS

DAY STRUCTURES
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334.277.9550

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
CANOPY FOUNDATION PLAN

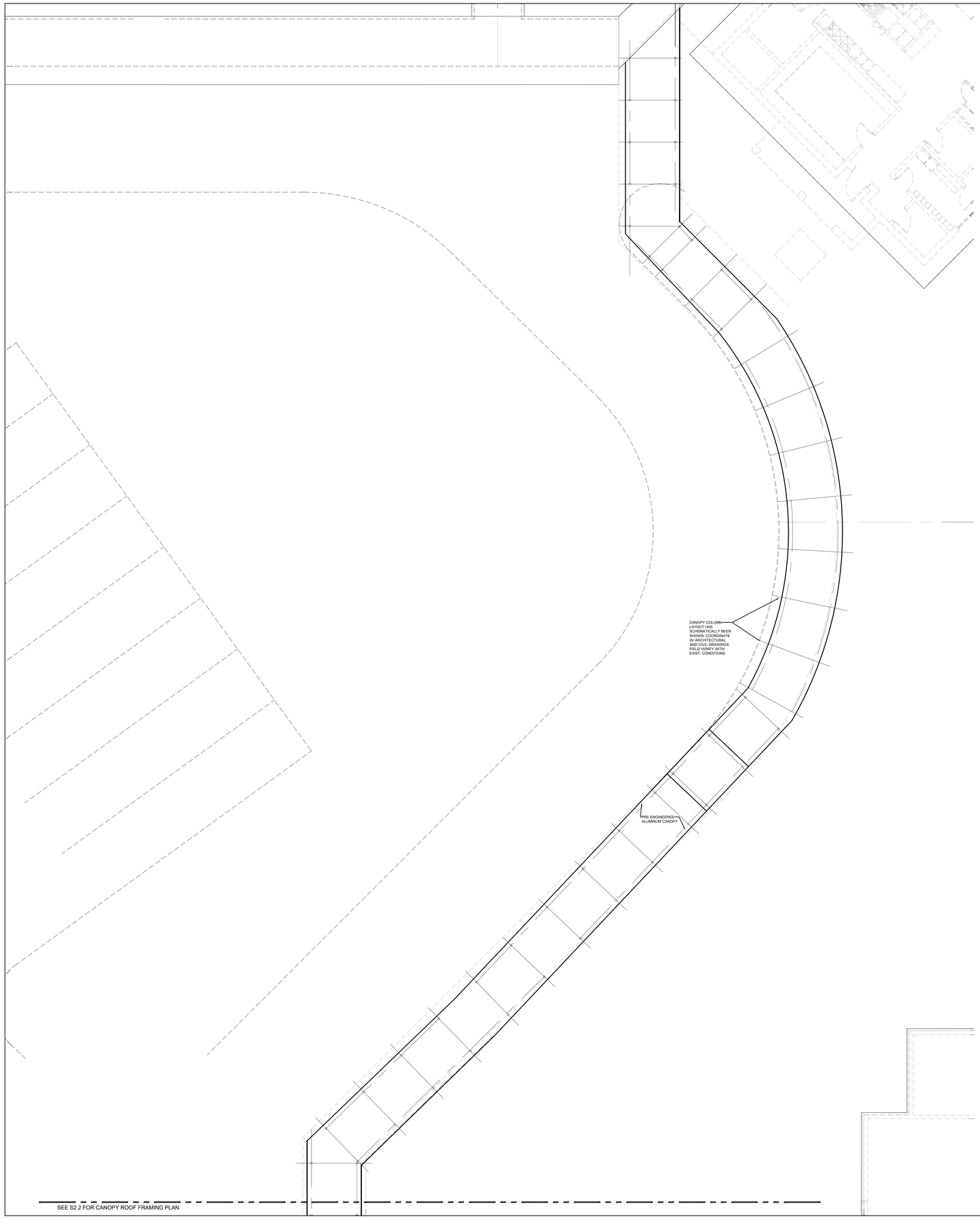
ALABAMA LICENSED 1.14.26 PROFESSIONAL ENGINEER TIMOTHY N. SANDERS

PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:
S2.1

0 1" 2"

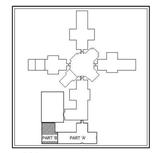


2 S2.2 CANOPY FOUNDATION PLAN

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. FINISH FLOOR REF. DATUM ELEVATION IS TO THE TOP OF THE PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
3. SEE S0.1 - S0.3 FOR GENERAL NOTES AND TYPICAL SECTIONS.
4. SEE S0.4 FOR SPECIAL INSPECTION SCHEDULE
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN



KEY PLAN
SCALE: NTS

TRUE NORTH

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
CANOPY ROOF FRAMING PLAN

ALABAMA LICENSED 1.14.26 No. 26000 PROFESSIONAL ENGINEER TIMOTHY N. SANFORD

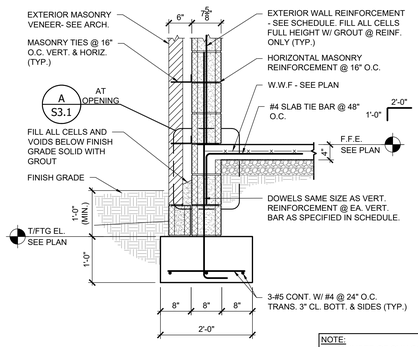
PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

S2.2

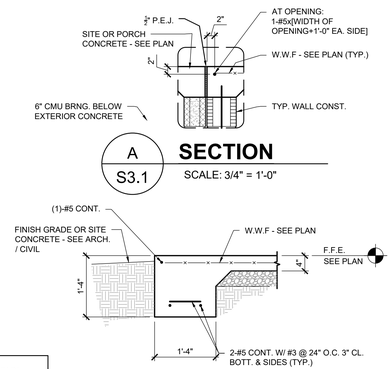
0 1" 2"

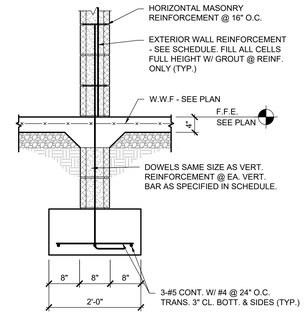


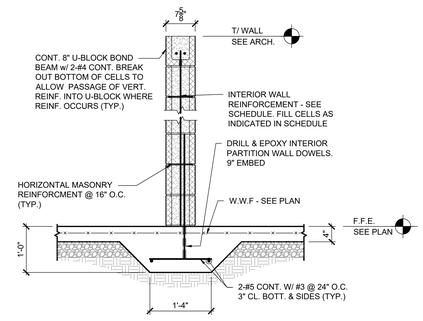
1 S3.1 **SECTION**

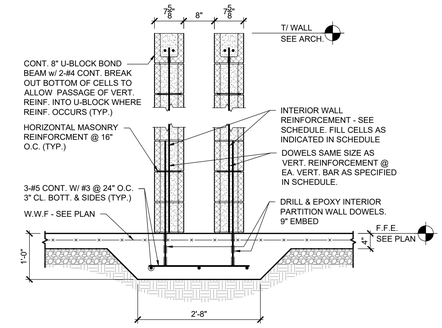
SCALE: 3/4" = 1'-0"

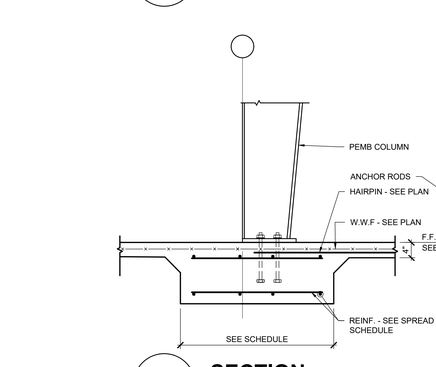
NOTE:
THE NUMBER OF CMU COURSES SHOWN IN SECTIONS IS SCHEMATIC AND DOES NOT NECESSARILY REPRESENT THE NUMBER OF COURSES REQUIRED IN THE FIELD. COORDINATE HEIGHT OF WALL AND DISTANCE FROM FFE TO TOP OF FOOTING WITH ELEVATIONS SHOWN ON THE PLANS. TYPICAL FOR ALL SECTIONS.

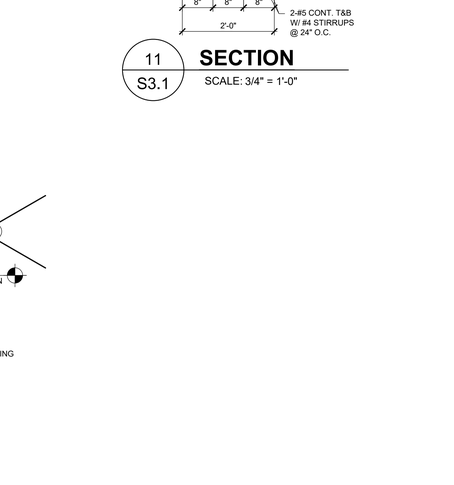


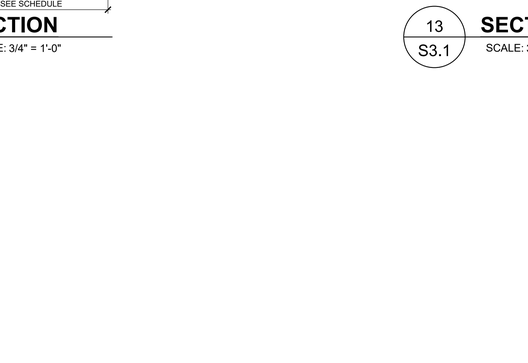


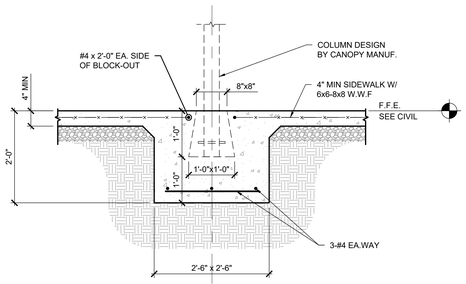


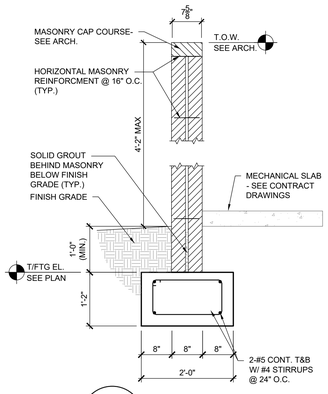


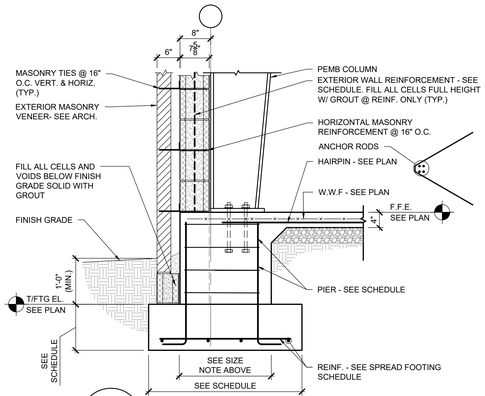


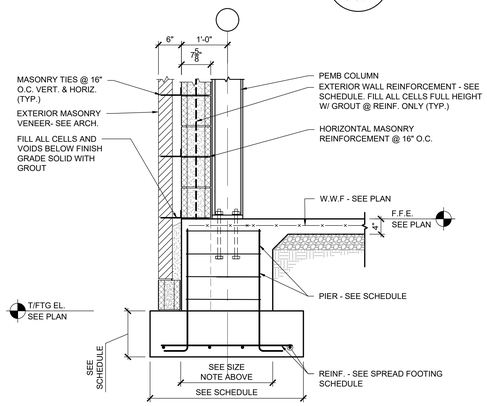


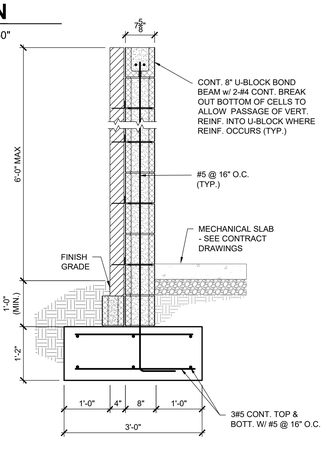












LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SECTIONS

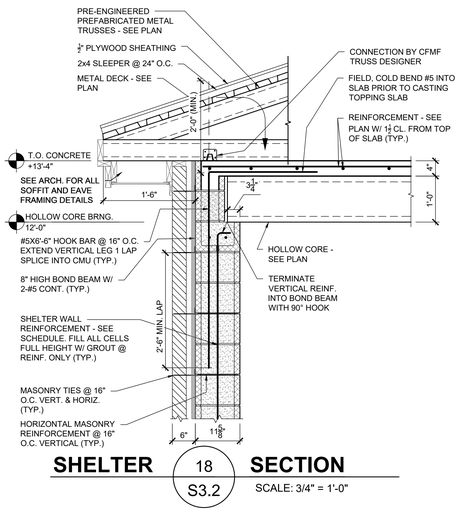
ALABAMA LICENSED PROFESSIONAL ENGINEER TIMOTHY N. SANDERS No. 38070 1.14.26

PROJ. MGR.: -
DRAWN:
DATE: 1.14.2026
REVISIONS

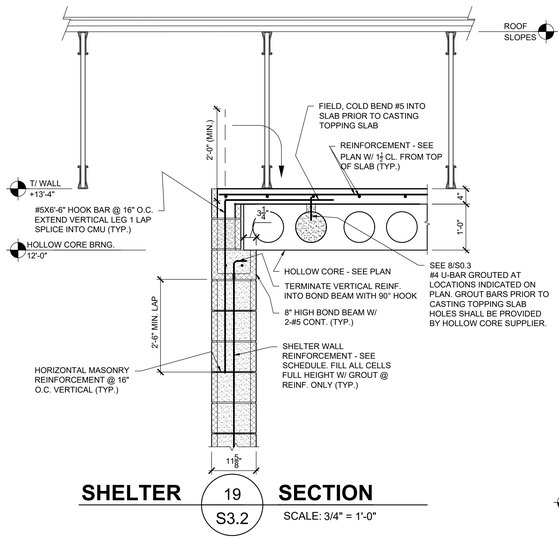
DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

JOB NO. 24-304
SHEET NO:
S3.1

0 1" 2"



SHELTER 18 **SECTION** — S3.2 — SCALE: 3/4" = 1'-0"



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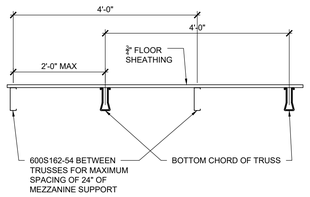
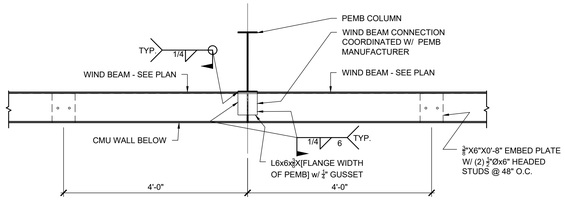


A S3.2 **SECTION** — SCALE: 3/4" = 1'-0"



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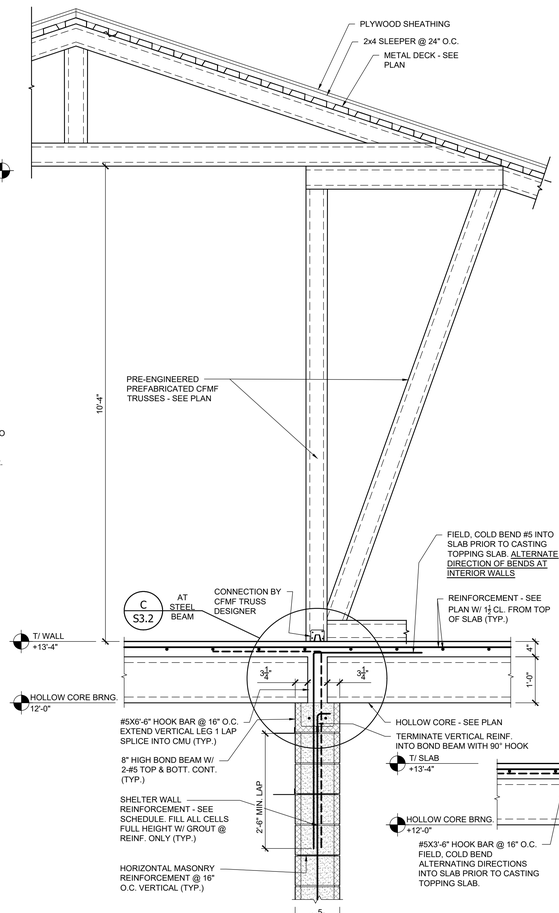
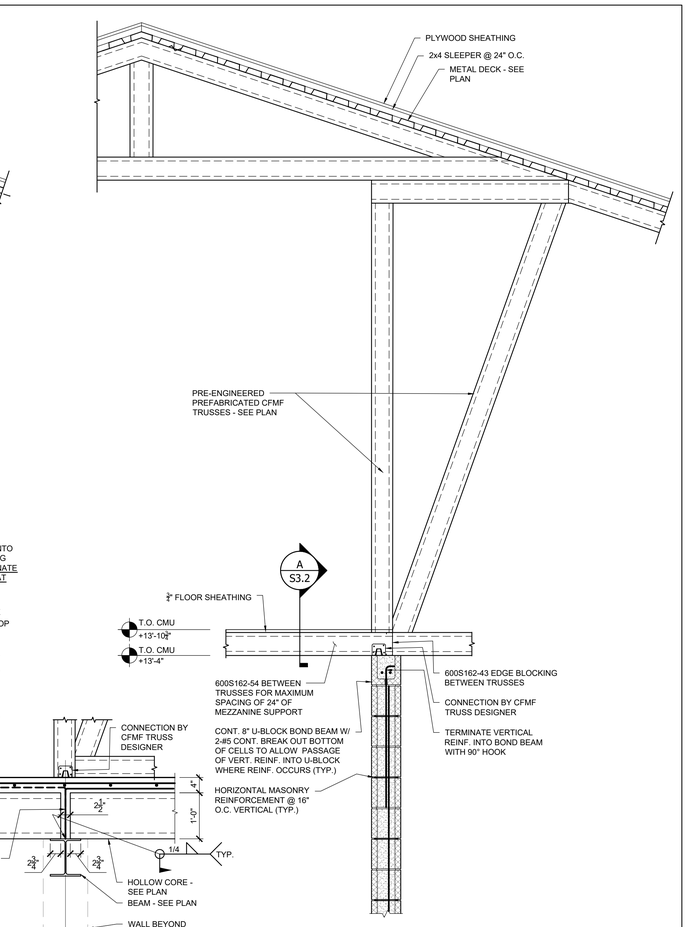
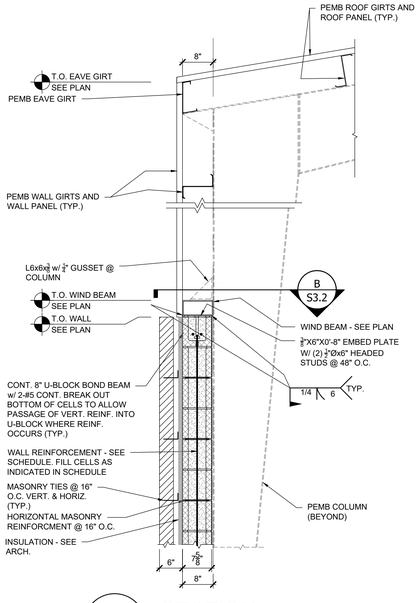


SHELTER 20 **SECTION** — S3.2 — SCALE: 3/4" = 1'-0"

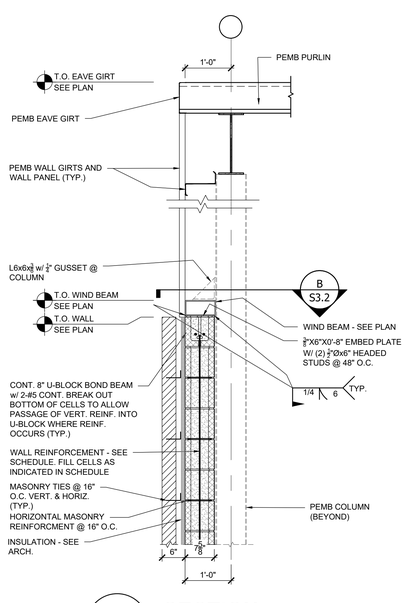


SHELTER C S3.2 **SECTION** — SCALE: 3/4" = 1'-0"

21 S3.2 **SECTION** — SCALE: 3/4" = 1'-0"



22 S3.2 **SECTION** — SCALE: 3/4" = 1'-0"



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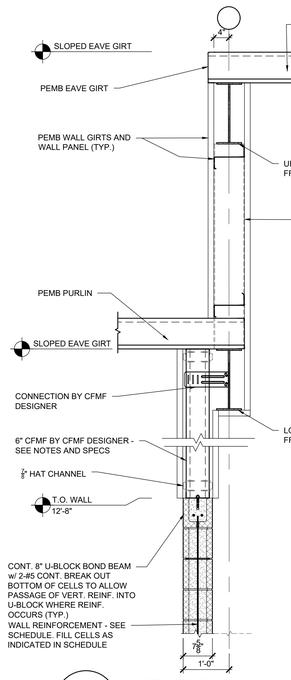
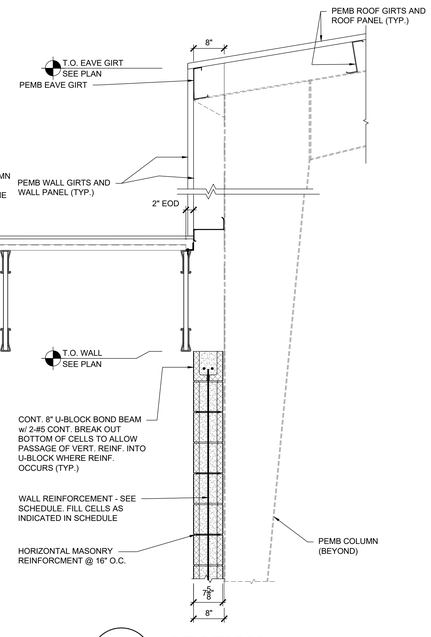
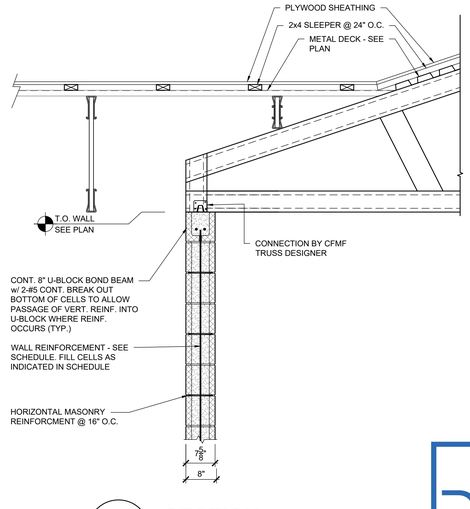


24 S3.2 **SECTION** — SCALE: 3/4" = 1'-0"



25 S3.2 **SECTION** — SCALE: 3/4" = 1'-0"



26 S3.2 **SECTION** — SCALE: 3/4" = 1'-0"

DAY STRUCTURES
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141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SECTIONS

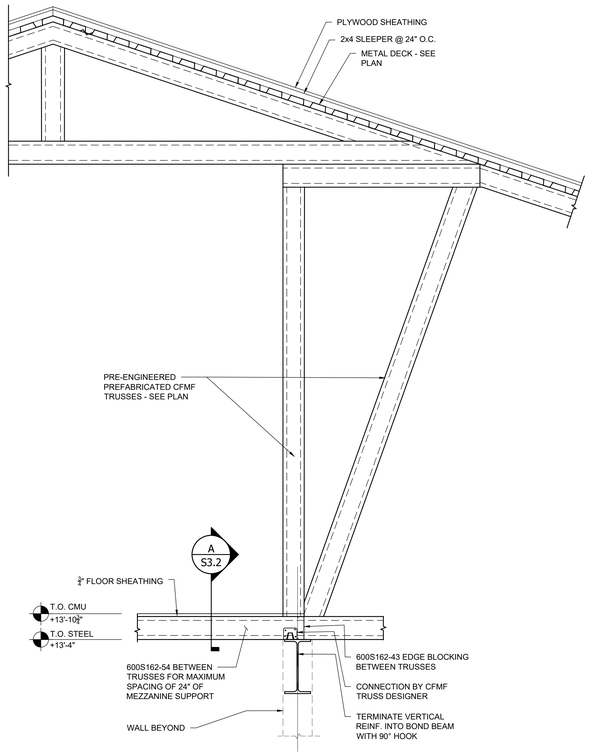
ALABAMA LICENSED ENGINEER
1.14.26
No. 38070
PROFESSIONAL
TIMOTHY N. SANSBERRY

PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:
S3.2

0 1" 2"



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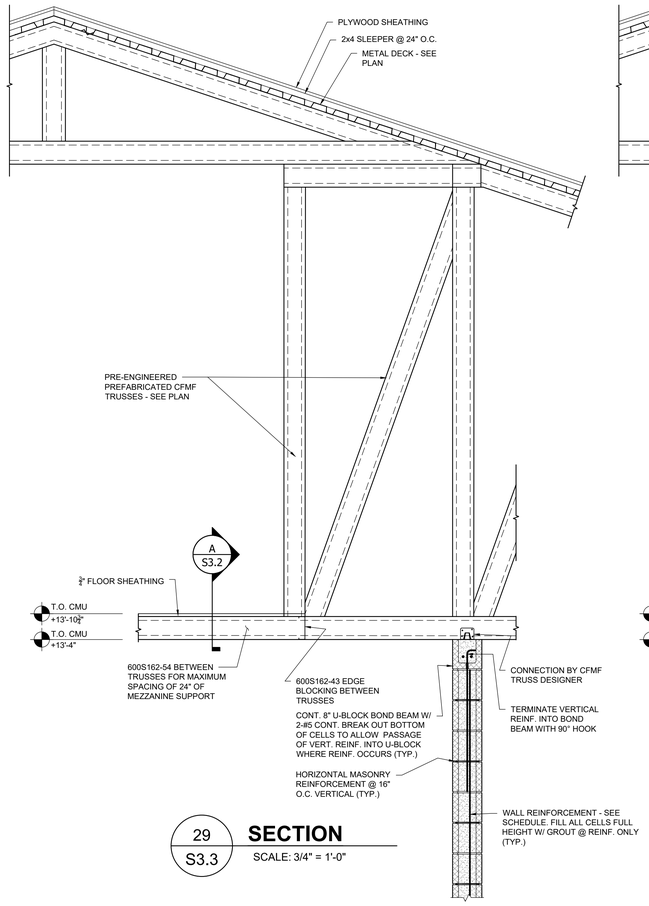
SCALE: 3/4" = 1'-0"



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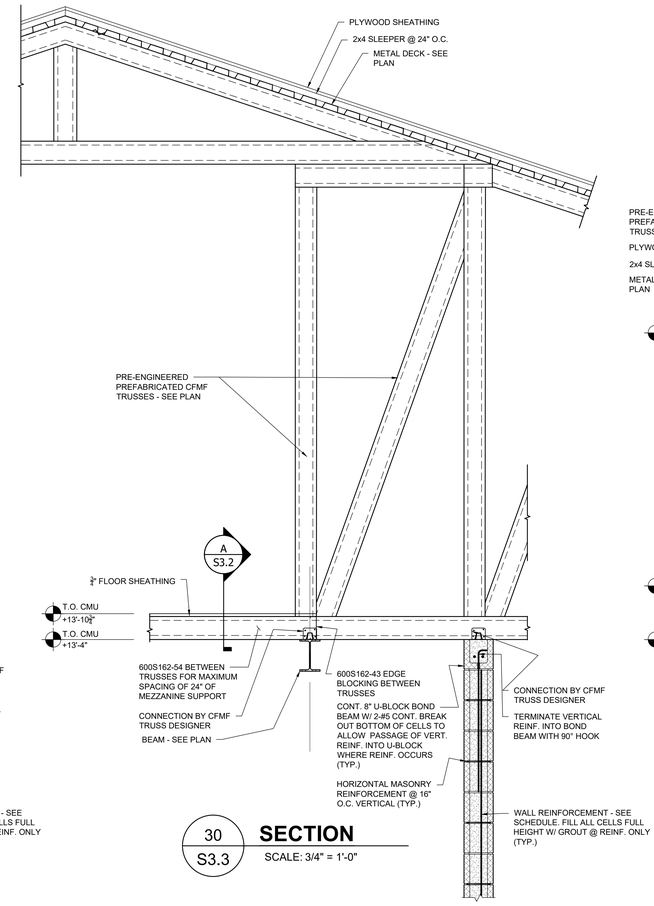
SCALE: 3/4" = 1'-0"



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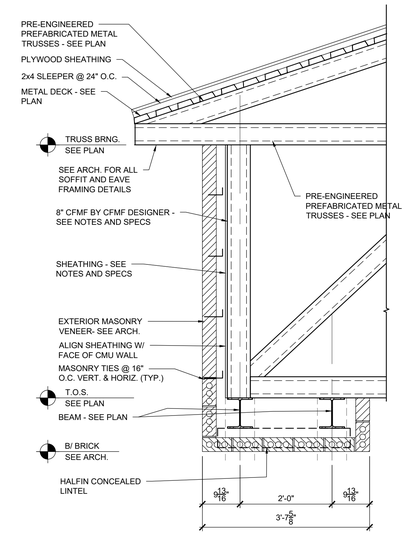
SCALE: 3/4" = 1'-0"



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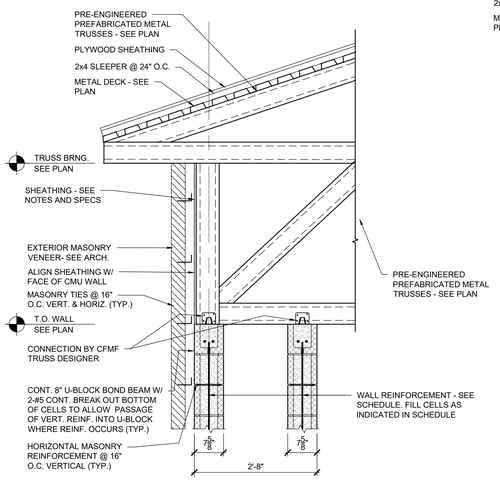
SCALE: 3/4" = 1'-0"



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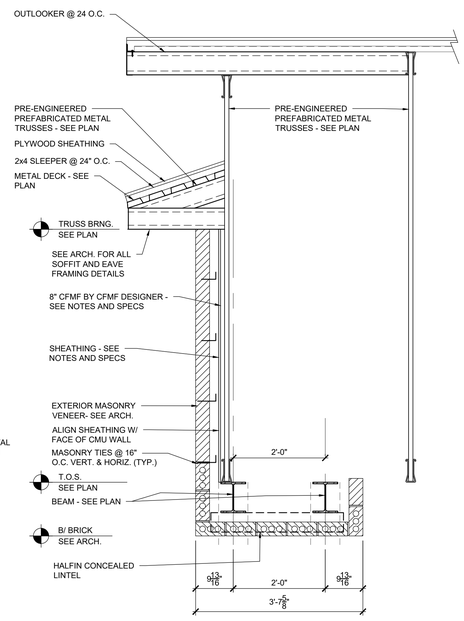
SCALE: 3/4" = 1'-0"



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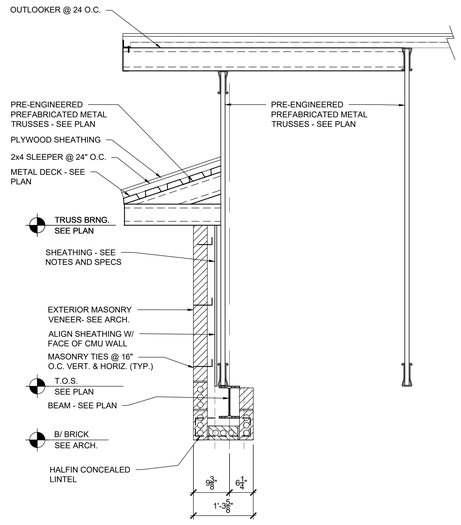
SCALE: 3/4" = 1'-0"



34 S3.3 **SECTION**
SCALE: 3/4" = 1'-0"

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
SECTIONS

ALABAMA LICENSED
1.14.26
No. 26570
PROFESSIONAL
ENGINEER
TIMOTHY N. SANDERS

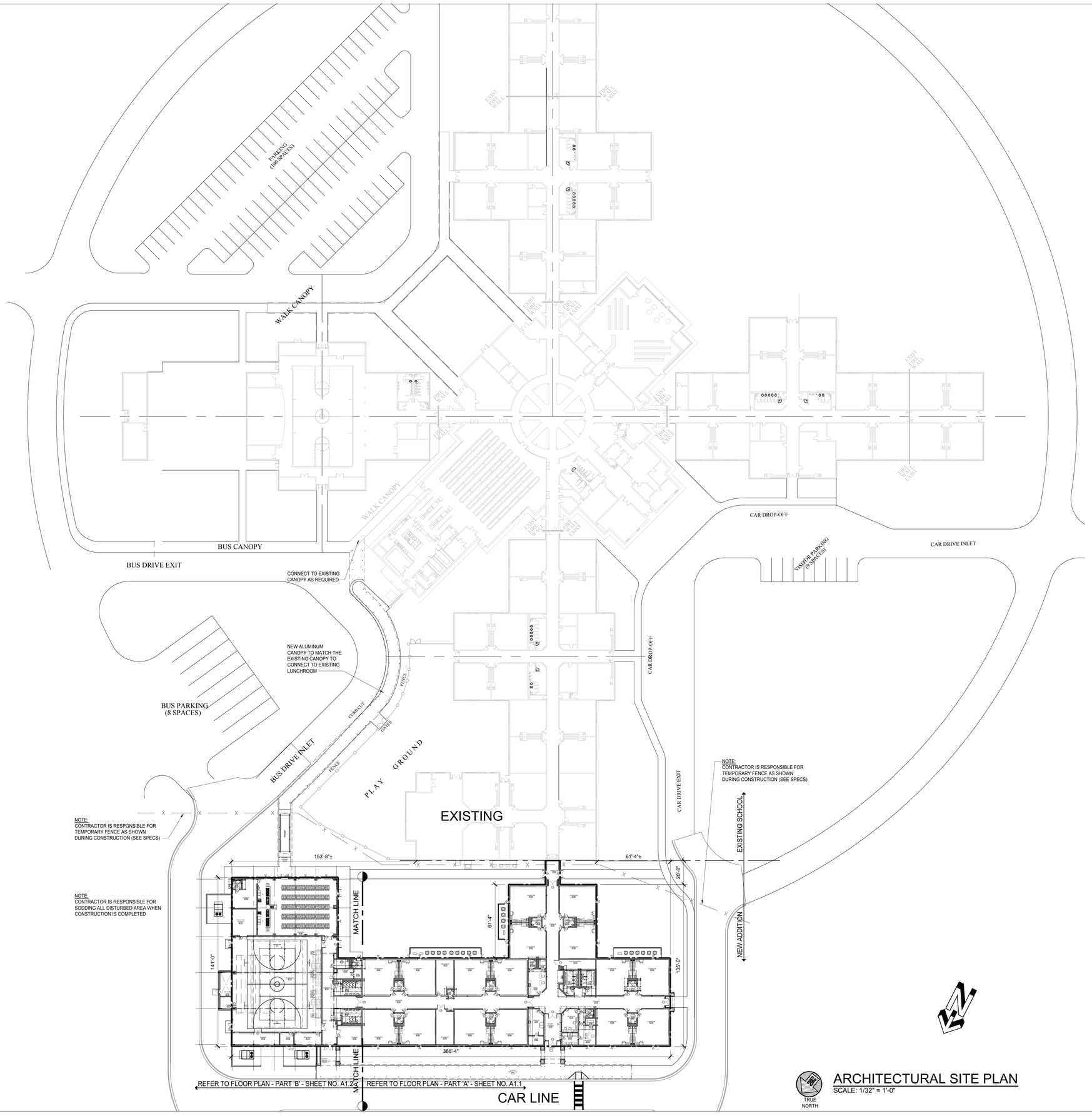
PROJ. MGR.:	-
DRAWN:	
DATE:	1.14.2026
REVISIONS	

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

JOB NO. 24-304

SHEET NO:
S3.3

0 1" 2"



ARCHITECTURAL SITE PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN
SCALE: NTS

LATHAN
McKEE
ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ARCHITECTURAL SITE PLAN

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.:	-
DRAWN:	KDD
DATE:	01.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

A0.1

0 1" 2"

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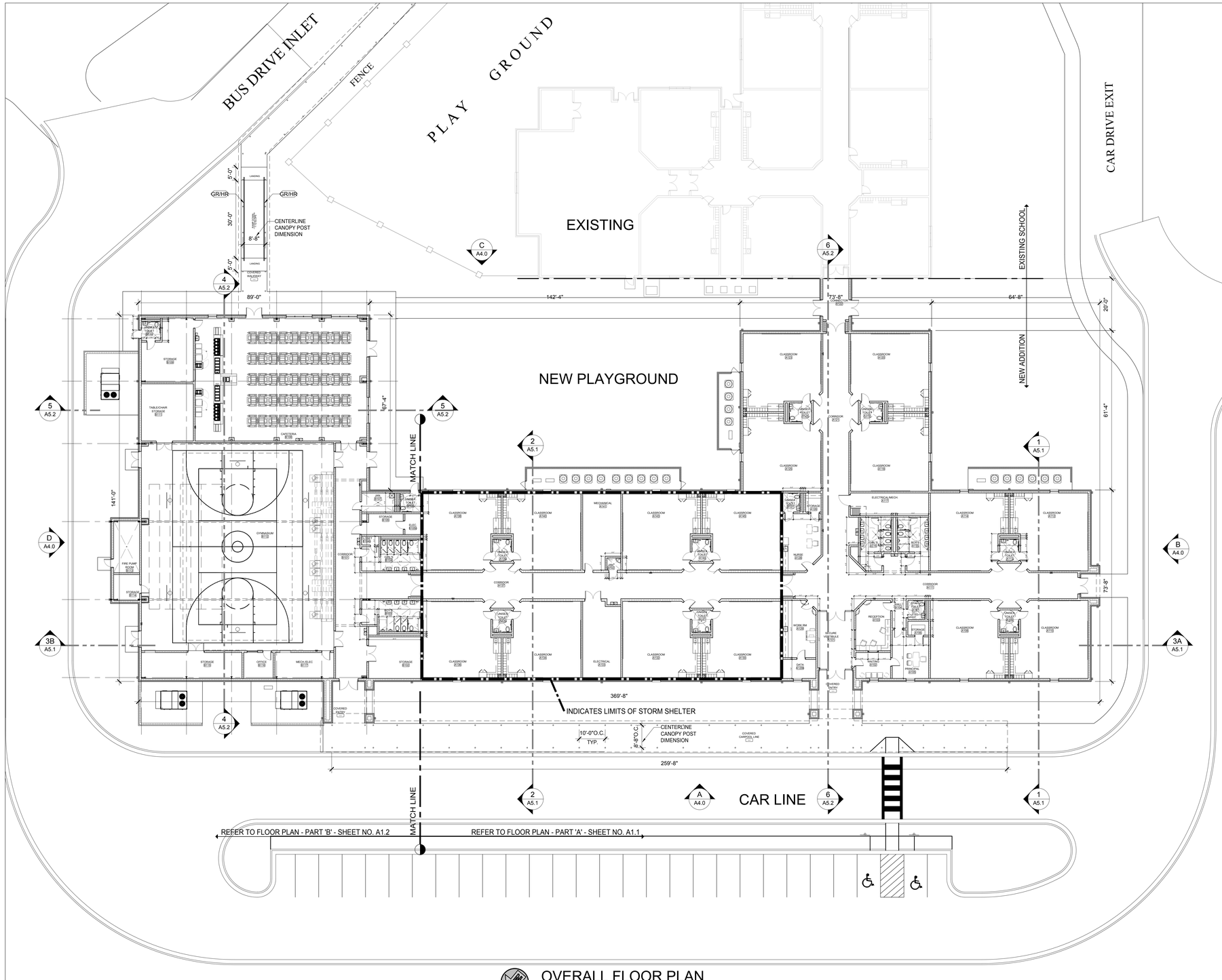


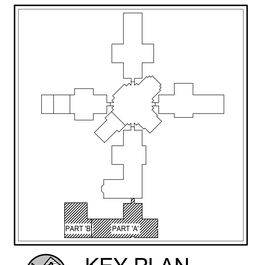
FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CORRIDOR A101	SCHEDULED ROOM NAME AND NUMBER
- AX.X	SECTION / DETAIL SYMBOL
- AX.X	BUILDING SECTION SYMBOL
GR/HR	METAL GUARDRAIL/HANDRAIL AT RAMP (SEE DETAIL SHEET A9.3)

OVERALL FLOOR PLAN

SCALE: 1/16" = 1'-0" 38,007 SQ. FT.

TRUE NORTH



KEY PLAN
SCALE: NTS

TRUE NORTH

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: OVERALL FLOOR PLAN

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.:	-
DRAWN:	KDD
DATE:	01.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

A1.0

0 1" 2"

- I:\Users\kddarchitect\LATHAN-McKEE PROJECTS\Andalusia Elem Addition 24-304\A1.X Floor Plans.dwg
- Tuesday, January 13, 2026 10:24:42 AM

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
A---	SCHEDULED DOOR AND FRAME
-	SCHEDULED WINDOW UNIT
CORRIDOR ---	SCHEDULED ROOM NAME AND NUMBER
- AX.X	SECTION / DETAIL SYMBOL
- AX.X	BUILDING SECTION SYMBOL
- AX.X	ELEVATION ELEVATION SYMBOL
X AX.X X X	INTERIOR ELEVATION SYMBOL
P-	WALL PARTITION TYPES (SEE SHEET A7.1)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
CR	CARD READER LOCATION (SEE ELECTRICAL DETAIL)
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT (SEE SPECS)
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
IB	INTERACTIVE BOARD (BY OWNER)
MOP	MOP SINK (SEE PLUMBING)
XMB	X'-0" MARKER BOARD
SINK	SINK (SEE PLUMBING)
SL	SHIP LADDER (SEE SPECS)
SW50	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.3)
4TB	4'-0" TACK BOARD
TC	TEACHER CABINET (SEE SPECS)

EXISTING SCHOOL

NEW ADDITION

CONNECTOR A122

CLASSROOM A123

CLASSROOM A120

UNISEX TOILET A124

UNISEX TOILET A119

CORRIDOR A121

CLASSROOM A125

CLASSROOM A118

CHAINLINK GATE AT SCREENWALL OPENINGS @ EA END (SEE SPECS)

MATCH LINE

UNISEX TOILET B106

ELEC. B1059

CLASSROOM A138

CLASSROOM A140

MECHANICAL A141

CLASSROOM A143

CLASSROOM A145

UNISEX TOILET A127

STORAGE A126

ELECTRICAL/MECH. A117

CLASSROOM A114

CLASSROOM A112

UNISEX TOILET A139

MOP JAN. A142

UNISEX TOILET A144

NURSE A128

GIRL'S A116

BOY'S A115

UNISEX TOILET A113

CORRIDOR A137

CORRIDOR A111

UNISEX TOILET A135

UNISEX TOILET A131

WORK RM A129

SECURE VESTIBULE A101

RECEPTION A103

HALL A104

STAFF TOILET A107

STORAGE A106

UNISEX TOILET A109

CLASSROOM A108

CLASSROOM A110

RAGE 102

CLASSROOM A136

CLASSROOM A134

ELECTRICAL A133

CLASSROOM A132

CLASSROOM A130

DATA A129b

WAITING A102

PRINCIPAL A105

CLASSROOM A136

COVERED ENTRY

LOW SITTING WALL

LOW SITTING WALL

COVERED CARPOOL LINE

MATCH LINE

FLOOR PLAN - PART 'A'

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

TRUE NORTH

PART 'A'

PART 'B'

KEY PLAN

SCALE: NTS

TRUE NORTH

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: FLOOR PLAN - PART "A"

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304

SHEET NO:

A1.1

0 1" 2"

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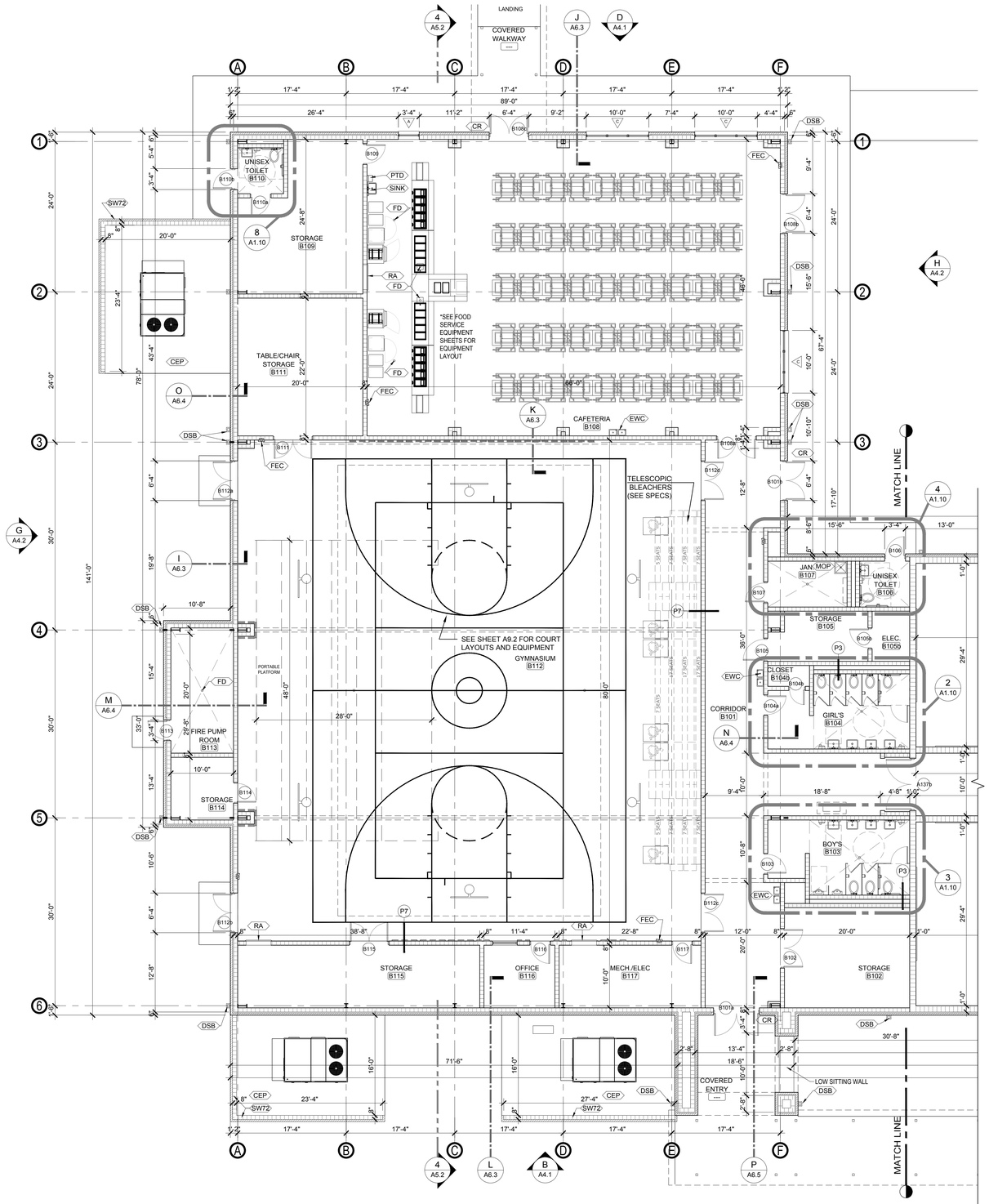


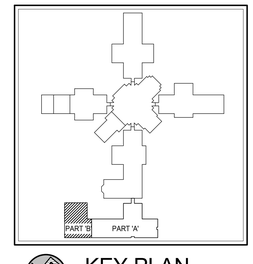
FLOOR PLAN - PART 'B'

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

TRUE NORTH

FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
A---	SCHEDULED DOOR AND FRAME
	SCHEDULED WINDOW UNIT
CORRIDOR	SCHEDULED ROOM NAME AND NUMBER
AX.X	SECTION / DETAIL SYMBOL
AX.X	BUILDING SECTION SYMBOL
AX.X	ELEVATION ELEVATION SYMBOL
X AX.X X	INTERIOR ELEVATION SYMBOL
P-	WALL PARTITION TYPES (SEE SHEET A7.1)

FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
CR	CARD READER LOCATION (SEE ELECTRICAL DETAIL)
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT (SEE SPECS)
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
MOP	MOP SINK (SEE PLUMBING)
PTD	PAPER TOWEL (SEE PLUMBING)
RA	RETURN AIR (SEE MECHANICAL)
SINK	SINK (SEE PLUMBING)
SW50	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.3)



KEY PLAN

SCALE: NTS

TRUE NORTH

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: FLOOR PLAN - PART "B"

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: A1.2

0 1" 2"

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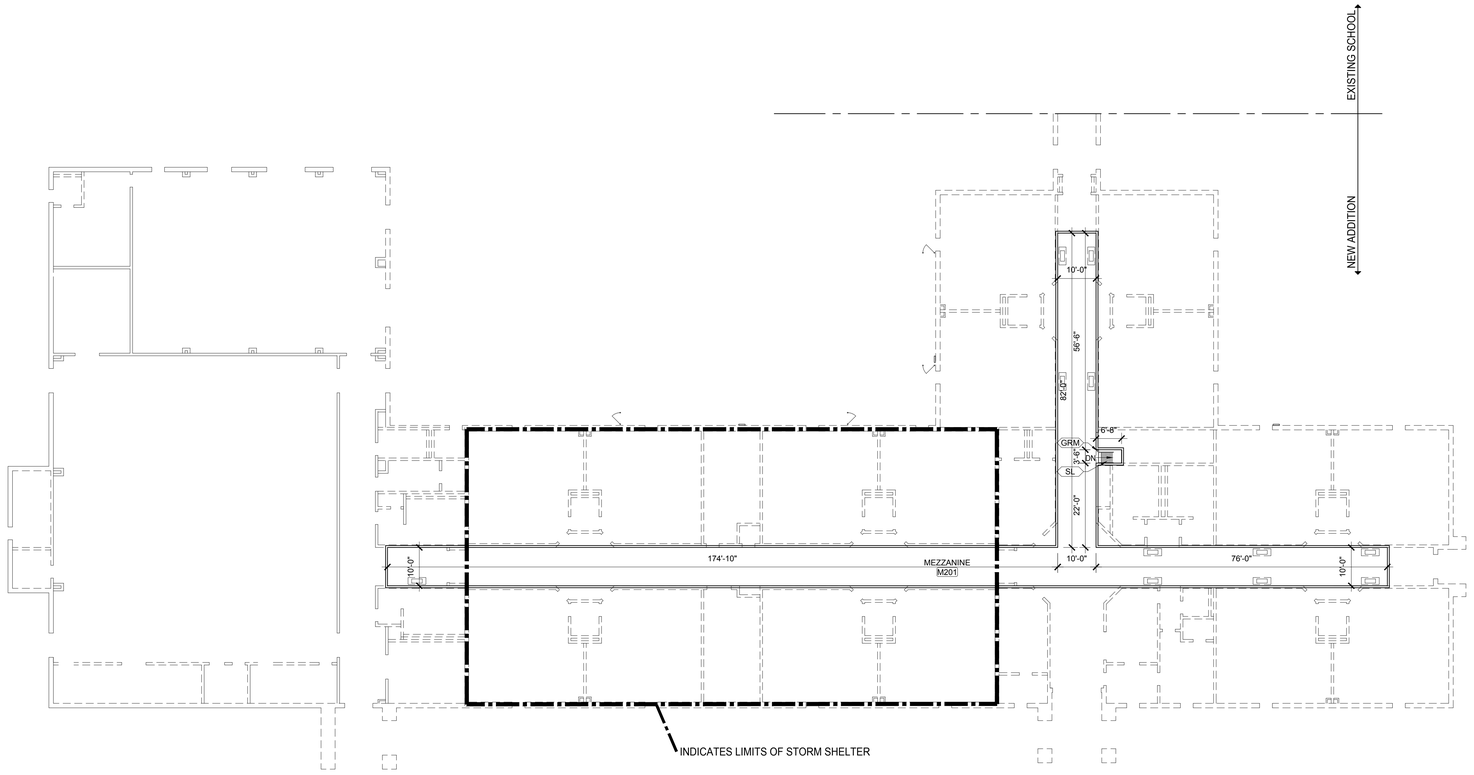
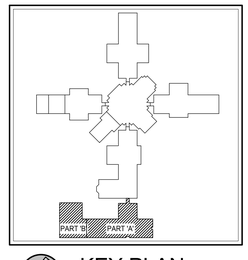
FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
CORRIDOR (###)	SCHEDULED ROOM NAME AND NUMBER
GRM	METAL GUARDRAIL AT MEZZANINE - PAINT
SL	SHIP LADDER (SEE SPECS)



MEZZANINE FLOOR PLAN
SCALE: 1/16" = 1'-0"

TRUE NORTH



KEY PLAN
SCALE: NTS

TRUE NORTH

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: MEZZANINE FLOOR PLAN

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.:	-
DRAWN:	KDD
DATE:	01.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

A1.3

0 1" 2"

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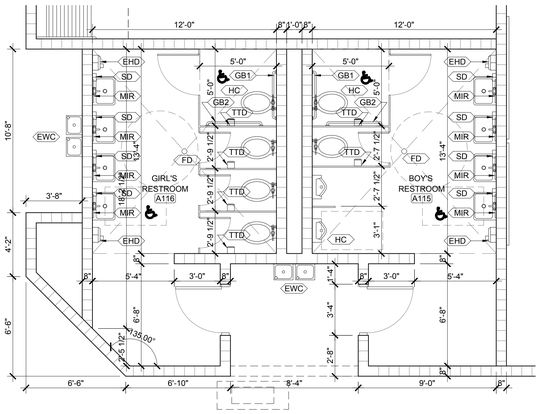
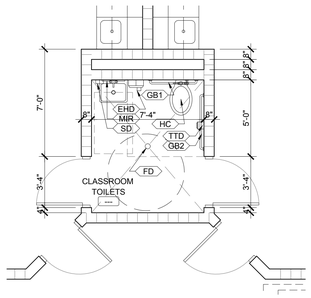
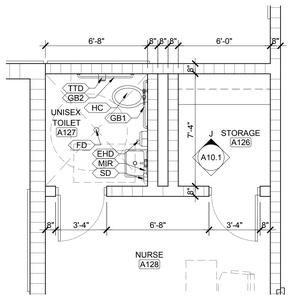


1 ENLARGED PLAN - PART 'A'
SCALE: 1/4" = 1'-0" BOYS A115/GIRLS A116

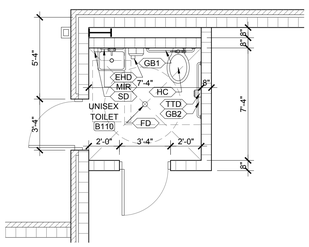
NOTE:
ALL TOILET ROOMS TO HAVE PORCELAIN TILE WAINSCOT UP TO 6 FEET



5 ENLARGED PLAN
SCALE: 1/4" = 1'-0" TYPICAL CLASSROOM TOILETS



7 ENLARGED PLAN
SCALE: 1/4" = 1'-0" TOILET A127 & STOR. A126



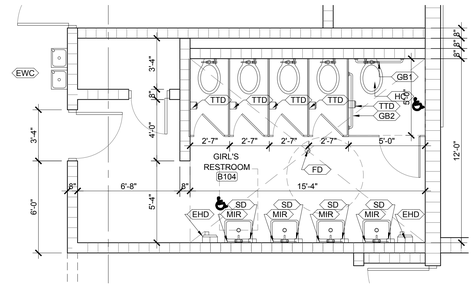
8 ENLARGED PLAN
SCALE: 1/4" = 1'-0" UNISEX TOILET B110

FLOOR PLAN LEGEND

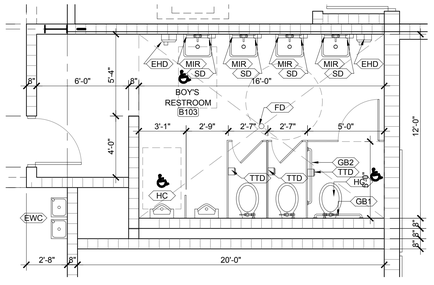
SYMBOL	DESCRIPTION
CORRIDOR 100	SCHEDULED ROOM NAME AND NUMBER
A	SCHEDULED WINDOW UNIT
P-	WALL PARTITION TYPES
X / X AX X / X	INTERIOR ELEVATION SYMBOL
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
MOP	MOP SINK (SEE PLUMBING DRAWINGS)
SINK	SINK (SEE PLUMBING DRAWINGS)

TOILET ACCESSORIES LEGEND

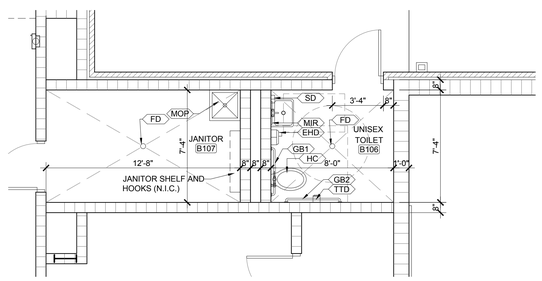
KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB3	SIDE WALL GRAB BAR AND IS TO BE 33"-36" AFF (SEE SPECS)
GB4	VERTICAL GRAB BAR IS TO BE 18" MIN. LENGTH, 3" MIN. AND 6" MAX. ABOVE THE HORIZONTAL GRAB BAR (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE ELECTRICAL)



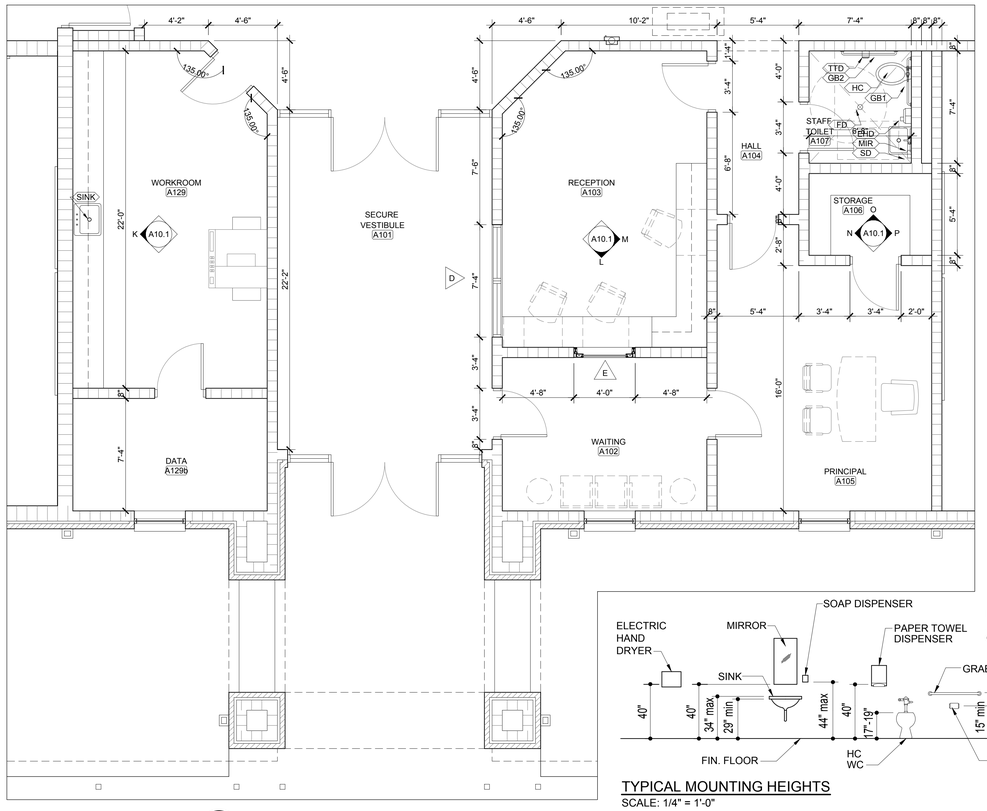
2 ENLARGED PLAN - PART 'B'
SCALE: 1/4" = 1'-0" GIRLS B104



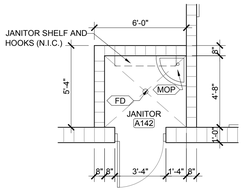
3 ENLARGED PLAN - PART 'B'
SCALE: 1/4" = 1'-0" BOYS B103



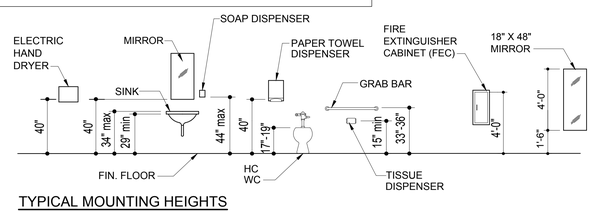
4 ENLARGED PLAN - PART 'B'
SCALE: 1/4" = 1'-0" JANITOR B107 & BOYS B103



9 ENLARGED PLAN - PART 'A'
SCALE: 1/4" = 1'-0" ADMINISTRATION

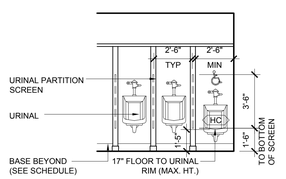


10 ENLARGED PLAN - PART 'B'
SCALE: 1/4" = 1'-0" JANITOR A142

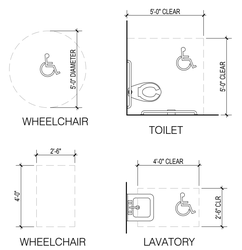


TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

NOTE: GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 IN. MIN. and 36 IN. MAX. ABOVE FINISHED FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



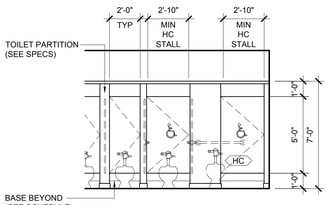
TYPICAL URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



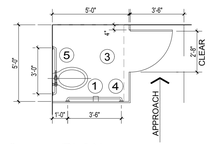
TYPICAL HANDICAP CLEAR FLOOR SPACES
SCALE: 1/4"=1'-0"

KEY NOTES

1. TOILET PAPER DISPENSER SHALL BE 7 IN. MIN. and 9 IN. MAX. IN FRONT OF WATER CLOSET MEASURED TO CENTERLINE OF DISPENSER. THE DISPENSER OUTLET SHALL BE 15 IN. MIN. and 48 IN. MAX. ABOVE FLOOR and NOT BE LOCATED BEHIND GRAB BARS.
2. WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
3. WHEELCHAIR ACCESSIBLE STALLS SHALL BE 60" MINIMUM DEPTH AND WIDTH WITH 32" MINIMUM WIDTH DOOR THAT SWINGS OUT. CENTER LINE OF WATER CLOSET TO BE 16" TO 18" FROM NEAR WALL.
4. A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
5. THE REAR WALL GRAB BAR SHALL BE 24 IN. LONG MIN., CENTERED ON THE WATER CLOSET. WHERE SPACE PERMITS, THE BAR SHALL BE 36 IN. LONG MIN. WITH THE ADDITIONAL LENGTH PROVIDED ON THE TRANSFER SIDE OF THE WATER CLOSET.
6. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE (TOP) AT THE LOCATION SHOWN AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.
7. COAT HOOKS PROVIDED WITHIN TOILET ROOMS SHALL BE 48 " MAX. ABOVE THE FLOOR. WHERE PROVIDED A FOLD DOWN SHELF SHALL BE 40" MIN. and 48" MAX. ABOVE FLOOR.
8. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



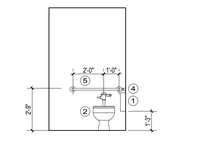
TYPICAL TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



PLAN
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

NOTE: THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL OR PARTITION.

DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWING DOORS SHALL BE MEASURED BETWEEN FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.



ELEVATION
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: LARGE SCALE FLOOR PLANS

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A1.10

0 1" 2"

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- Tuesday, January 13, 2026 10:24:59 AM

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
LAC	2'x2' LAY-IN ACOUSTICAL CEILING
VCC	2'x2' VINYL CLAD LAY-IN CEILING WITH ALUMINUM GRIDS
	GYPSUM BOARD (SUSPENDED AS REQUIRED)
	MOISTURE RESISTANT GYPSUM BOARD (SUSPENDED AS REQUIRED)
	METAL SOFFIT PANELS (SUSPENDED AS REQUIRED)
OTA	OPEN TO ABOVE

SYMBOL	DESCRIPTION
	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	2'x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	CASSETTE HEAT PUMP (SEE MECHANICAL)
	CEILING MOUNTED CASSETTE HEAT PUMP (SEE MECHANICAL)

SYMBOL	DESCRIPTION
BCL	BRICK CONCEALED LINTEL
BGF	BASKETBALL GOAL - FORWARD FOLD
BGS	BASKETBALL GOAL - SIDE FOLD
ED	EXPOSED DUCTWORK - NO PAINT
EDP	EXPOSED DUCTWORK - PAINT
ES	EXPOSED STRUCTURE - NO PAINT
ESP	EXPOSED STRUCTURE - PAINT
GB	GYPSUM BOARD - NO PAINT
GBF	GYPSUM BOARD FURRING
GBP	GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MSP	METAL SOFFIT PANELS - NON VENTED
MSPV	METAL SOFFIT PANELS - VENTED
SGS	SPECIALTY SUSPENDED GRID SYSTEM "CLOUD"

MATCH LINE

MATCH LINE

TRUE NORTH

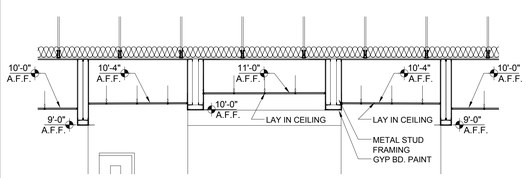
REFLECTED CEILING PLAN - PART 'A'

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

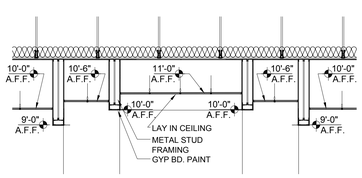
KEY NOTES:

1. GYPSUM BOARD CORNER BEAD – TYPICAL AT ALL GYP. BD. CORNERS
2. METAL OR WOOD FRAMING TO BE ERECTED ON MAX. 2'–0" CENTERS IN ACCORDANCE WITH CONVENTIONAL PROCEDURES.
3. INSTALL METAL RUNNERS TO CEILING and SIDEWALL WITH FASTENERS NOT TO EXCEED 2'–0" O.C., ON STUD WALLS, SPACE FASTENERS TO ENGAGE STUDS.
4. INSERT METAL STUDS BETWEEN RUNNERS SPACED 2'–0" O.C. and ATTACH STUDS TO RUNNERS.
5. ATTACH 5/8" GYPSUM BOARD TO STUDS and RUNNERS WITH SCREWS SPACED MAX. 1'–0" O.C..
6. SEE REFLECTED CEILING PLANS FOR LAY–IN CEILING

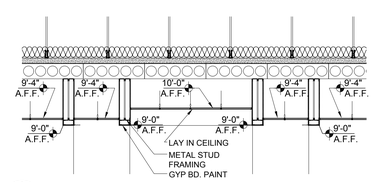
COORDINATION NOTE: THIS DETAIL IS INTENDED TO SERVE AS A GUIDE FOR TYPICAL DRYWALL SOFFIT / FURRING INSTALLATION. IT MUST BE MODIFIED AS NEEDED TO ADAPT IT TO VARYING CONDITIONS INDICATED ON REFLECTED CEILING PLANS AND THAT MAY BE ENCOUNTERED ON THE JOB. IN ADDITION TO THE FRAMING INDICATED, EACH CONTRACTOR IS RESPONSIBLE FOR THEIR OWN BLOCKING.



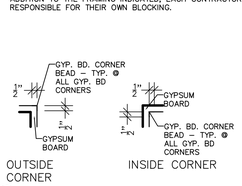
1 FURR DOWN DETAIL
SCALE: 1/4" = 1'-0"



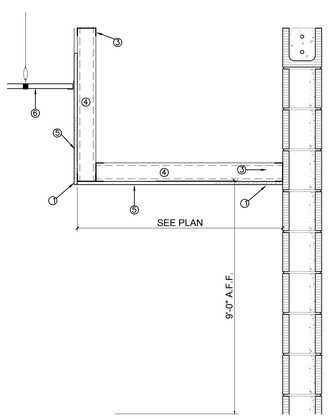
2 FURR DOWN DETAIL
SCALE: 1/4" = 1'-0"



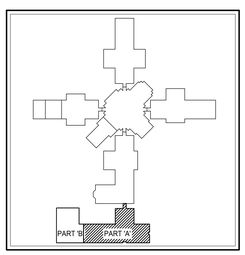
3 FURR DOWN DETAIL
SCALE: 1/4" = 1'-0"



4 CORNER DETAILS
SCALE: 1" = 1'-0"



5 TYP. FURR DOWN DETAIL
SCALE: 1/4" = 1'-0"



TRUE NORTH

KEY PLAN
SCALE: NTS

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
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ANDALUSIA, ALABAMA

SHEET TITLE: REFLECTED CEILING PLAN - PART "A"

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: A2.1

0 1" 2"

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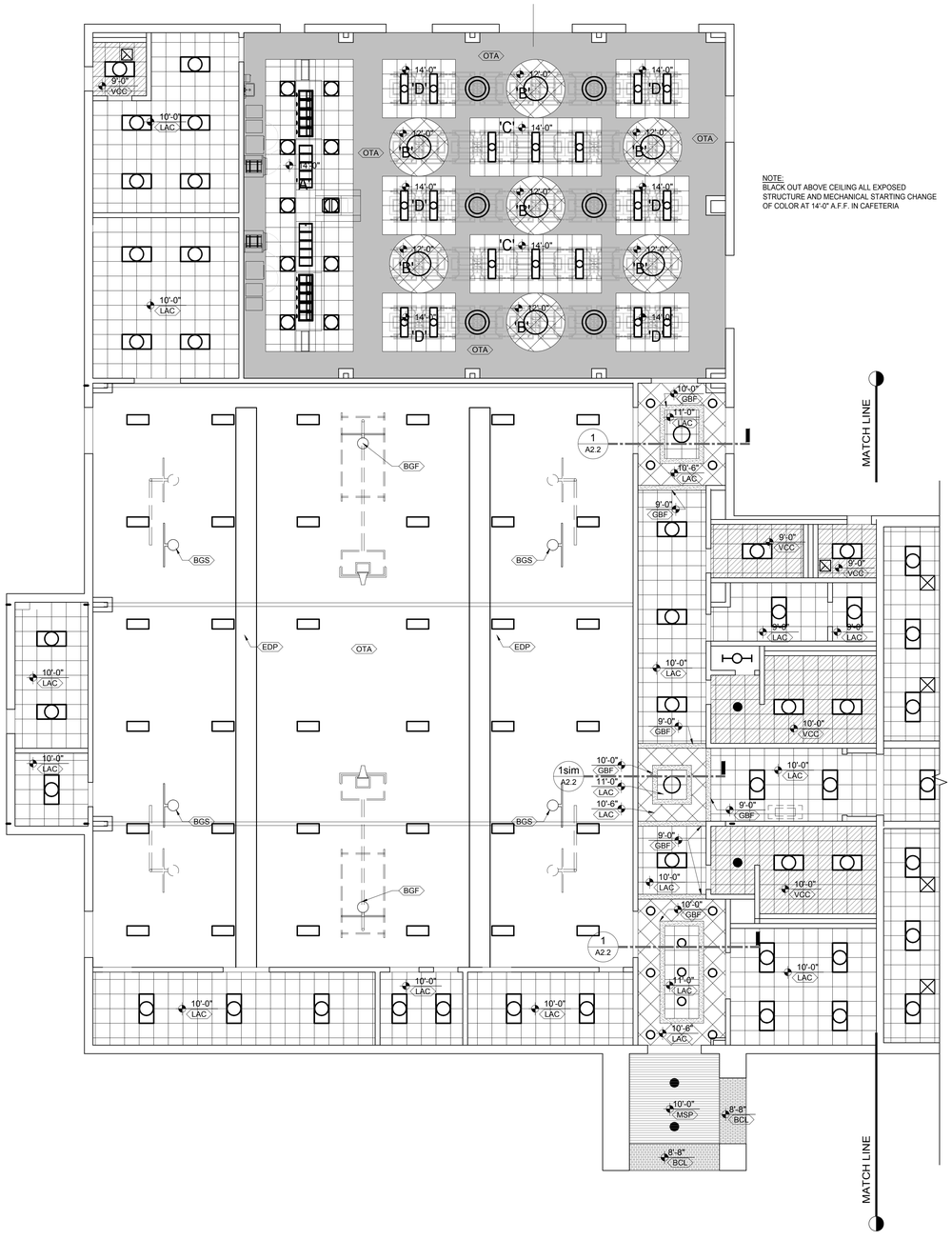


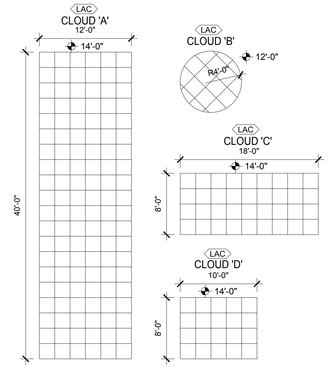
NOTE:
BLACK OUT ABOVE CEILING ALL EXPOSED STRUCTURE AND MECHANICAL STARTING CHANGE OF COLOR AT 14'-0" A.F.F. IN CAFETERIA

REFLECTED CEILING PLAN - PART 'B'
SCALE: 1/8" = 1'-0"

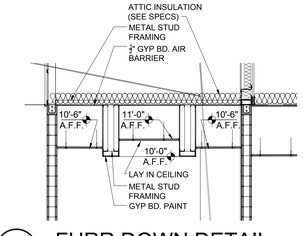
TRUE NORTH

REFLECTED CEILING PLAN LEGEND

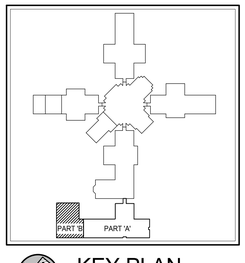
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION		2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)	BCL	BRICK CONCEALED LINTEL
LAC	2'x2' LAY-IN ACOUSTICAL CEILING		2'x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)	BGF	BASKETBALL GOAL - FORWARD FOLD
VCC	2'x2' VINYL CLAD LAY-IN CEILING WITH ALUMINUM GRIDS		1'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)	BGS	BASKETBALL GOAL - SIDE FOLD
	GYPSUM BOARD (SUSPENDED AS REQUIRED)		1'x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)	ED	EXPOSED DUCTWORK - NO PAINT
	MOISTURE RESISTANT GYPSUM BOARD (SUSPENDED AS REQUIRED)		RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)	EDP	EXPOSED DUCTWORK - PAINT
	METAL SOFFIT PANELS (SUSPENDED AS REQUIRED)		HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)	ES	EXPOSED STRUCTURE - NO PAINT
OTA	OPEN TO ABOVE		HVAC RETURN AIR GRILLE (SEE MECHANICAL)	ESP	EXPOSED STRUCTURE - PAINT
			EXHAUST FAN GRILLE (SEE MECHANICAL)	GB	GYPSUM BOARD - NO PAINT
			CASSETTE HEAT PUMP (SEE MECHANICAL)	GBF	GYPSUM BOARD FURRING
			CEILING MOUNTED CASSETTE HEAT PUMP (SEE MECHANICAL)	GBP	GYPSUM BOARD - PAINT
				MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
				MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
				MSP	METAL SOFFIT PANELS - NON VENTED
				MSPV	METAL SOFFIT PANELS - VENTED
				SGS	SPECIATLY SUSPENDED GRID SYSTEM "CLOUD"



A SUSPENDED CLOUD PLANS
SCALE: 1/8" = 1'-0"



1 FURR DOWN DETAIL
SCALE: 1/4" = 1'-0"



TRUE NORTH

KEY PLAN
SCALE: NTS

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: REFLECTED CEILING PLAN - PART "B"

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.:	-
DRAWN:	KDD
DATE:	01.14.2026
REVISIONS	

JOB NO. 24-304

SHEET NO:
A2.2

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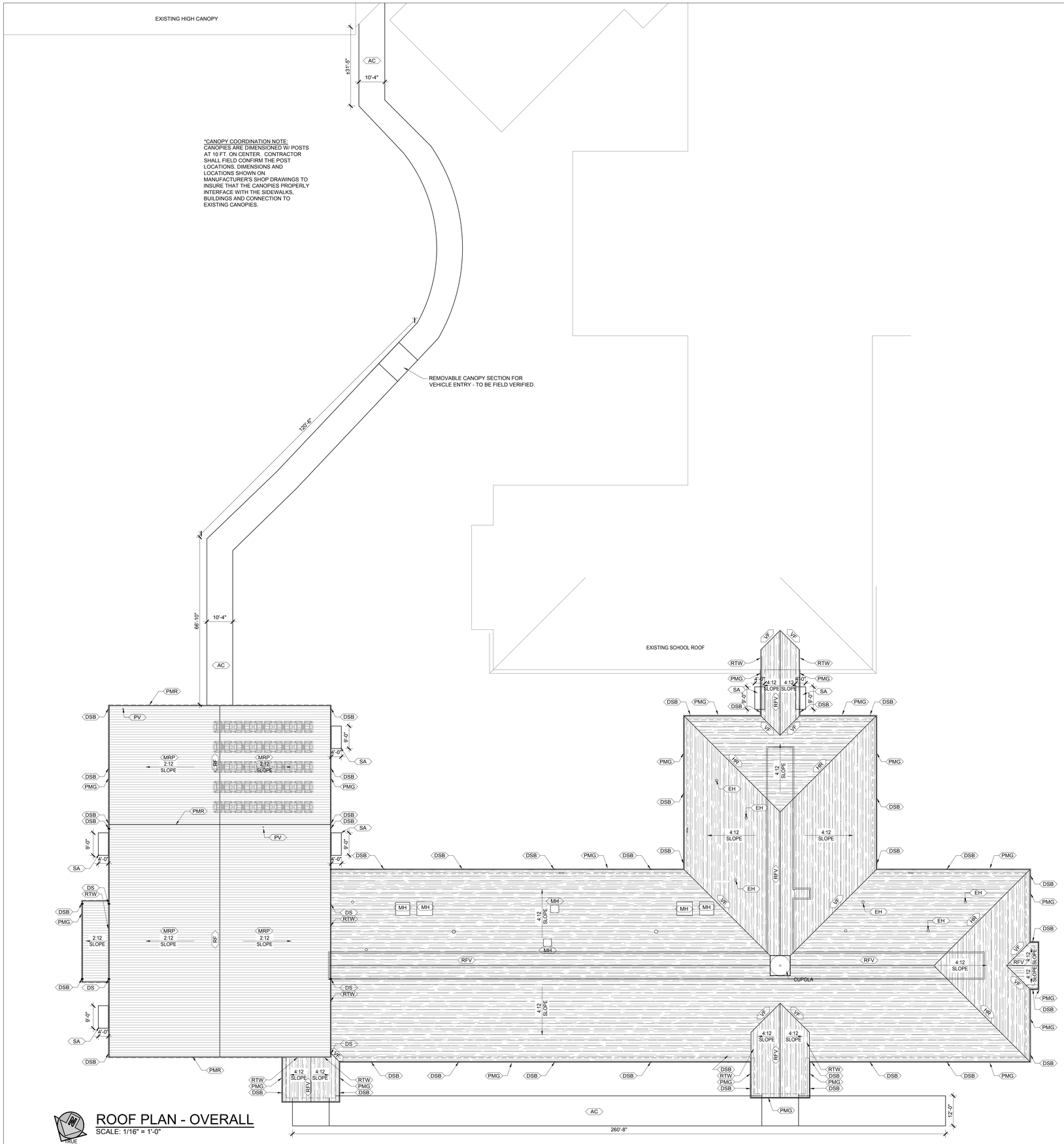

ROOF PLAN - OVERALL

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

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
	SHINGLES
MRP	METAL ROOF PANELS
X / A3.X	DETAIL SYMBOL
AC	ALUMINUM CANOPY
DS	PREFINISHED METAL DOWNSPOUT (SEE SPECS)
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT (SEE SPECS)
HR	HIP RIDGE FLASHING
MH	MECHANICAL HOOD (SEE MECHANICAL)
PMG	PREFINISHED METAL GUTTER
PV	PLUMBING VENT (SEE PLUMBING)
RF	RIDGE FLASHING - NON VENTED
RFV	RIDGE FLASHING - VENTED
RTW	CONTINUOUS ROOF TO WALL FLASHING
SA	SUSPENDED ALUMINUM AWNING
VF	VALLEY FLASHING

LATHAN ▪ McKEE ARCHITECTS

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ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ROOF PLAN - OVERALL

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
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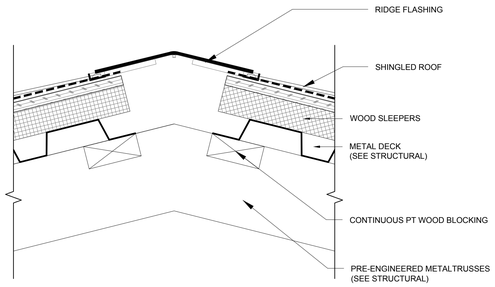
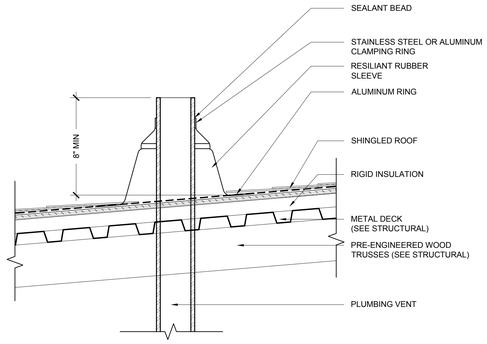
PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: A3.1

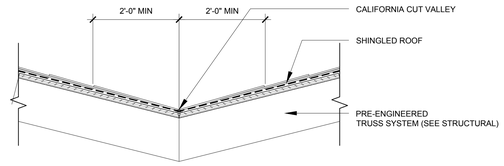
0 1" 2"



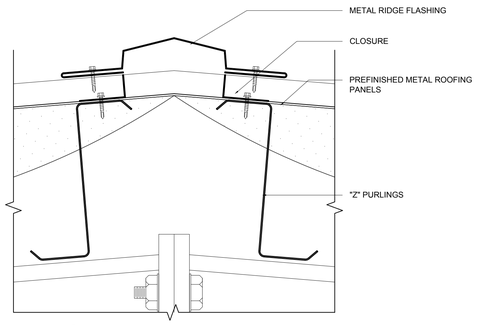
1 DETAIL
SCALE: 3"=1'-0"



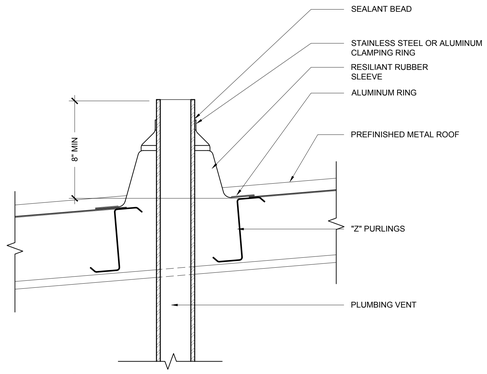
2 DETAIL
SCALE: 1 1/2"=1'-0"



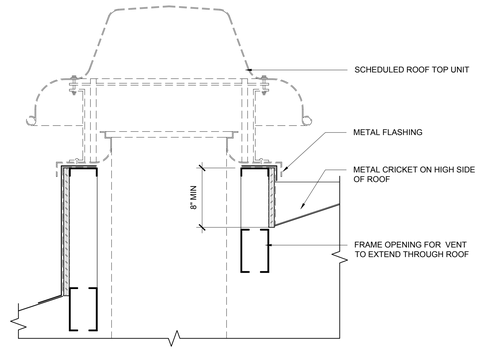
3 DETAIL
SCALE: 3"=1'-0"



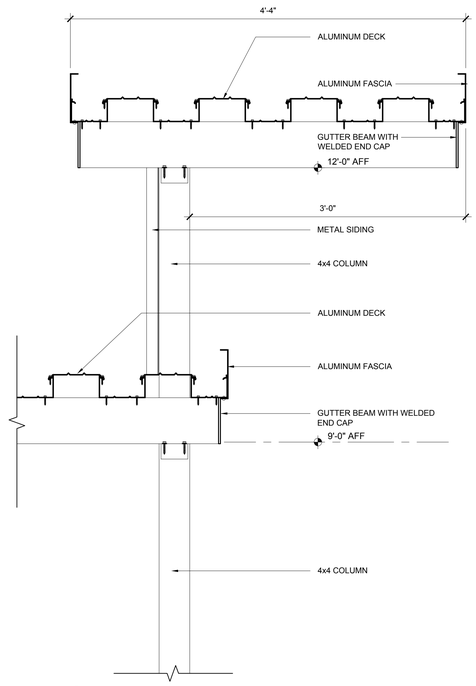
4 DETAIL
SCALE: 3"=1'-0"



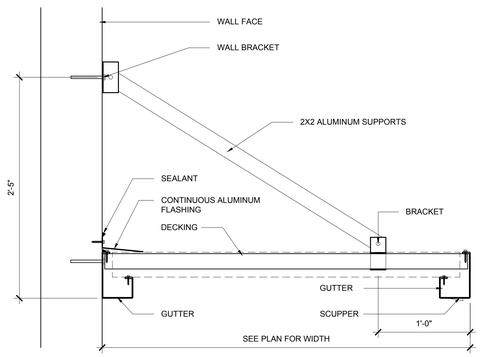
5 DETAIL
SCALE: 1 1/2"=1'-0"



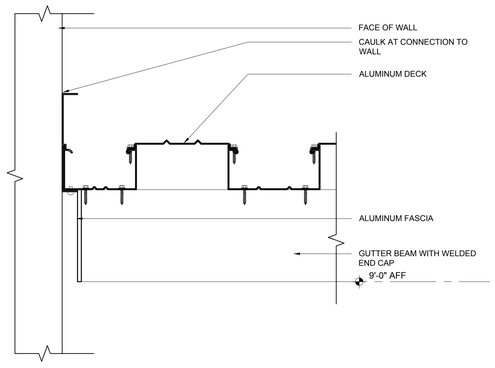
6 DETAIL
SCALE: 1-1/2"=1'-0"



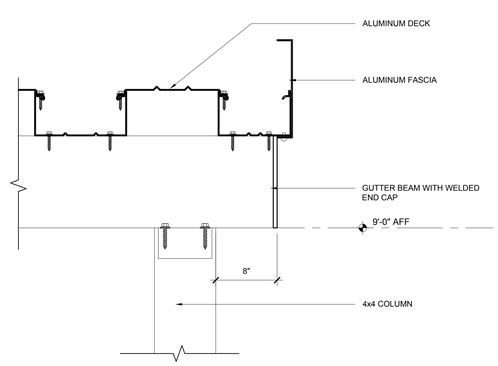
7 DETAIL
SCALE: 1 1/2"=1'-0"



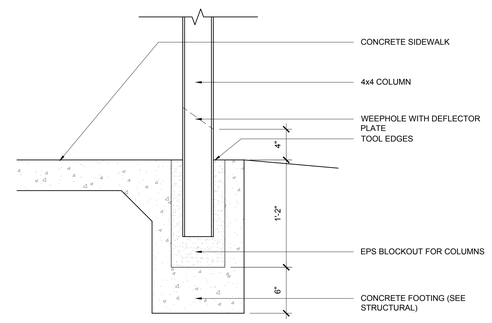
8 DETAIL
SCALE: 1 1/2"=1'-0"



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



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



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

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ROOF DETAILS

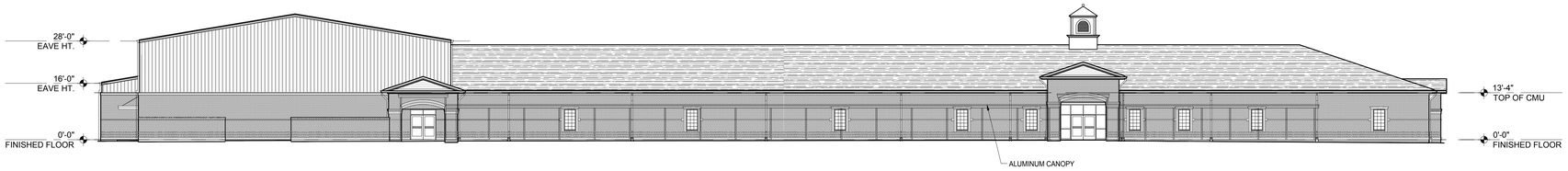
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

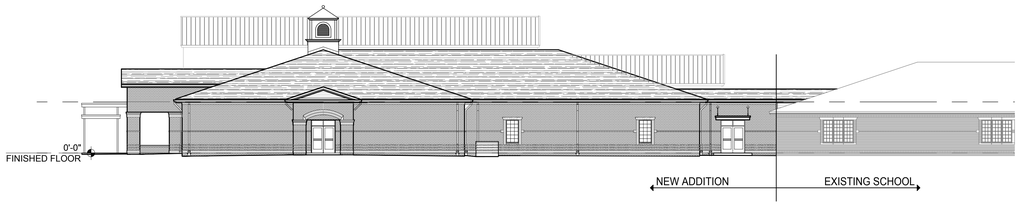
JOB NO. 24-304
SHEET NO:
A3.2

0 1" 2"

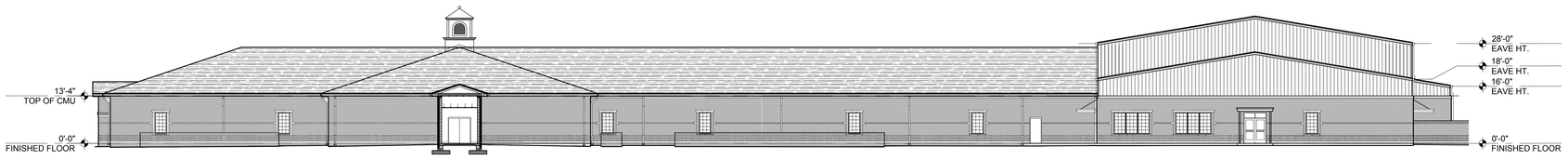
- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A3.X Roof Plans.dwg
- Tuesday, January 13, 2026 10:31:25 AM



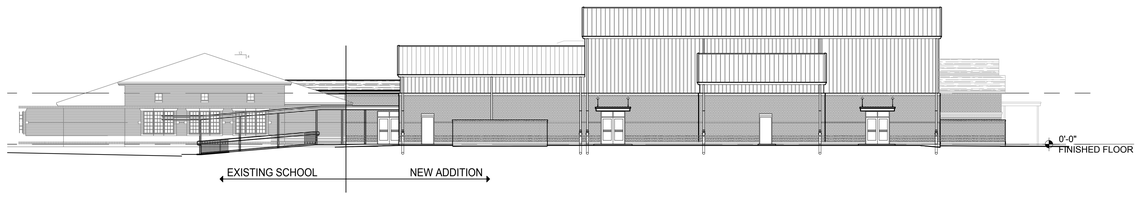
A EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



B EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



C EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



D EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: EXTERIOR ELEVATIONS - OVERALL

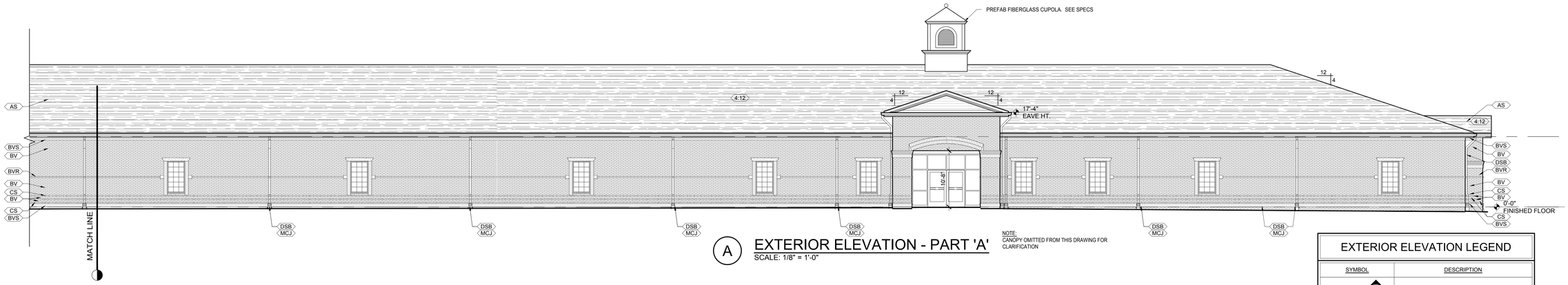
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A4.0

0 1" 2"

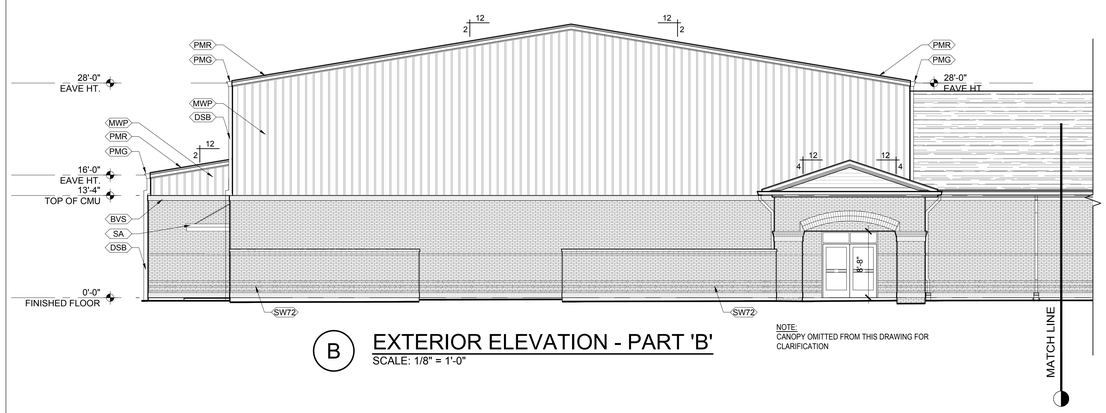
- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A4.X Exterior Elevations.dwg
- Tuesday, January 13, 2026 10:32:21 AM



A EXTERIOR ELEVATION - PART 'A'

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

NOTE:
CANOPY OMITTED FROM THIS DRAWING FOR CLARIFICATION

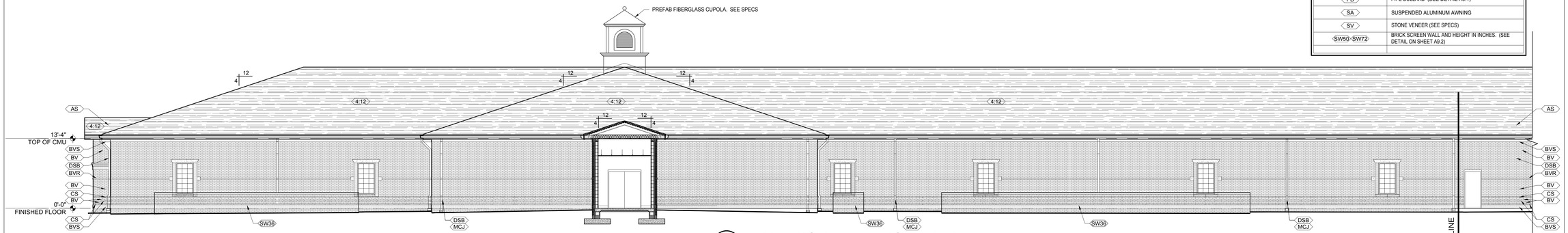


B EXTERIOR ELEVATION - PART 'B'

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

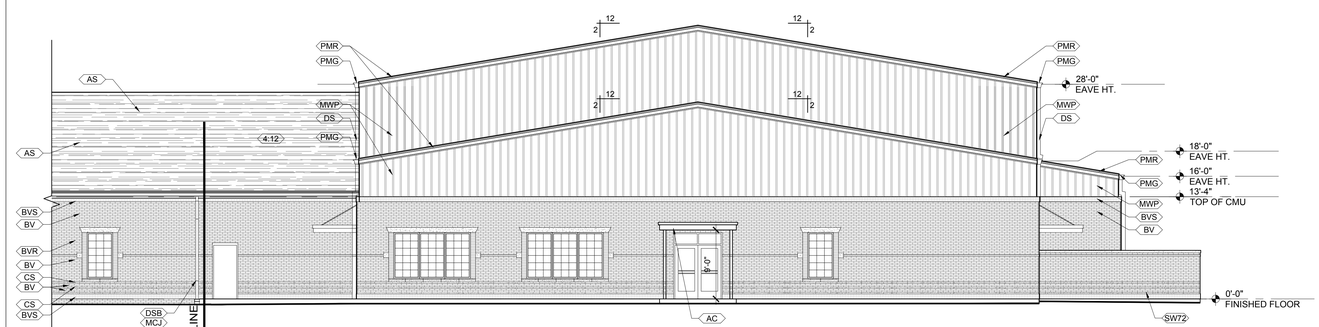
NOTE:
CANOPY OMITTED FROM THIS DRAWING FOR CLARIFICATION

EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
- / AX.X	BUILDING SECTION SYMBOL
L1	SCHEDULED LOUVER TYPES
AC	ALUMINUM CANOPY
AS	ASPHALT SHINGLES (SEE SPECS)
BVA	BRICK VENEER - ACCENT COLOR
BV	BRICK VENEER
BVSA	BRICK VENEER - SOLDIER COURSE - ACCENT COLOR
BVS	BRICK VENEER - SOLDIER COURSE
BVR	BRICK VENEER - ROWLOCK COURSE
CS	CAST STONE (SEE SPECS)
DLF	DECORATIVE LIGHT FIXTURE (SEE ELECTRICAL)
DS	PREFINISHED METAL DOWNSPOUT
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
MCJ	MASONRY CONTROL JOINT LOCATIONS LOCATED BEHIND DOWNSPOUTS WHERE POSSIBLE
MRP	METAL ROOF PANELS
MWP	METAL WALL PANELS
PMC	PREFINISHED METAL COPING
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
PB	PIPE BOLLARD (SEE DETAIL A9.1)
SA	SUSPENDED ALUMINUM AWNING
SV	STONE VENEER (SEE SPECS)
SW50 SW72	BRICK SCREEN WALL AND HEIGHT IN INCHES (SEE DETAIL ON SHEET A9.2)



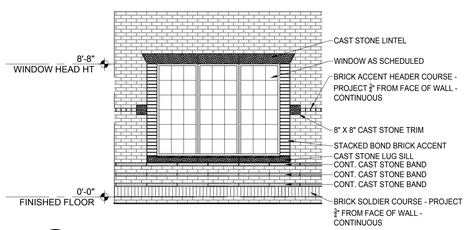
C EXTERIOR ELEVATION - PART 'A'

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



D EXTERIOR ELEVATION - PART 'B'

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



1 TYPICAL WINDOW DETAIL

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

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: EXTERIOR ELEVATIONS

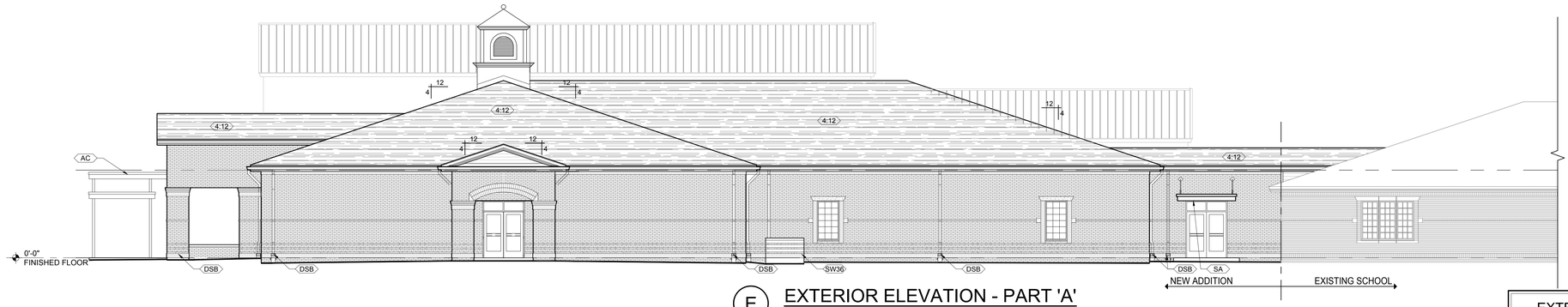
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

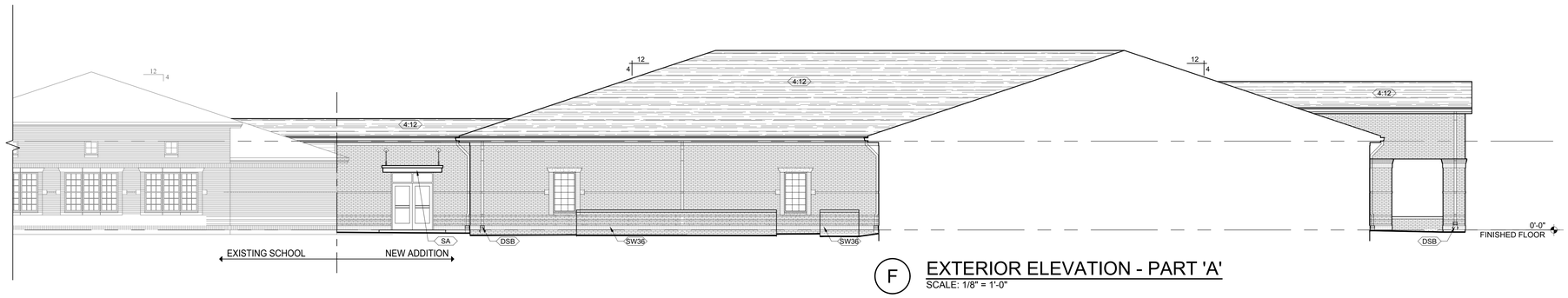
JOB NO. 24-304
SHEET NO: A4.1

0 1" 2"

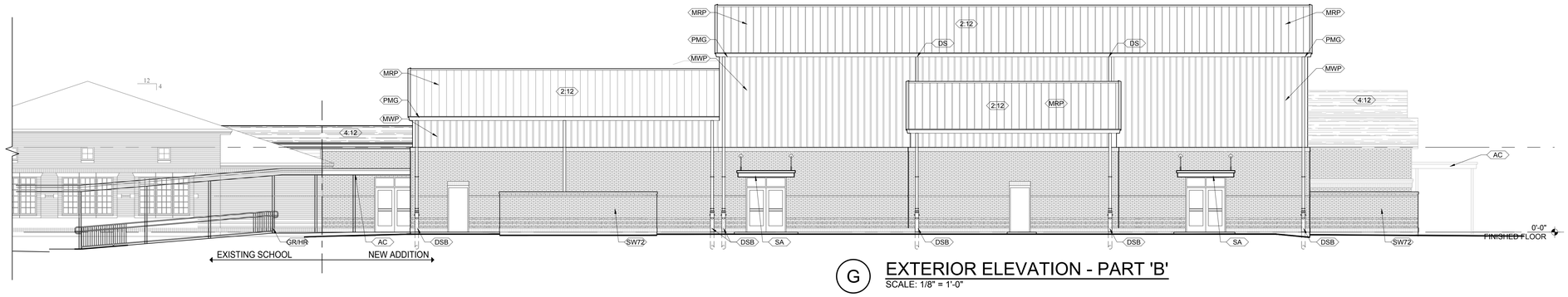
- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A4.X Exterior Elevations.dwg
- Tuesday, January 13, 2026 10:32:47 AM



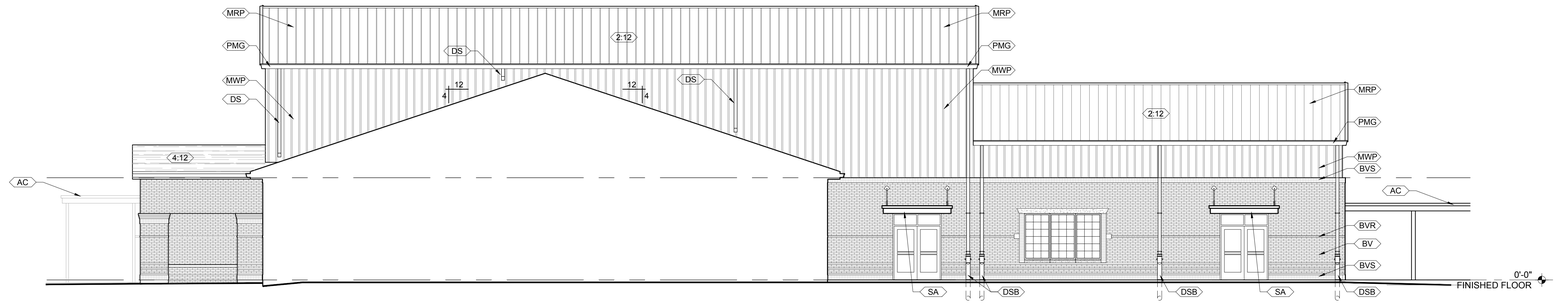
E EXTERIOR ELEVATION - PART 'A'
SCALE: 1/8" = 1'-0"



F EXTERIOR ELEVATION - PART 'A'
SCALE: 1/8" = 1'-0"



G EXTERIOR ELEVATION - PART 'B'
SCALE: 1/8" = 1'-0"



H EXTERIOR ELEVATION - PART 'B'
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
- AX.X	BUILDING SECTION SYMBOL
L1	SCHEDULED LOUVER TYPES
AC	ALUMINUM CANOPY
AS	ASPHALT SHINGLES (SEE SPECS)
BVA	BRICK VENEER - ACCENT COLOR
BV	BRICK VENEER
BVSA	BRICK VENEER - SOLDIER COURSE - ACCENT COLOR
BVS	BRICK VENEER - SOLDIER COURSE
BVR	BRICK VENEER - ROWLOCK COURSE
CS	CAST STONE (SEE SPECS)
DLF	DECORATIVE LIGHT FIXTURE (SEE ELECTRICAL)
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
GR/HR	METAL GUARDRAIL/HANDRAIL (SEE DETAIL ON SHEET A9.3)
MCJ	MASONRY CONTROL JOINT LOCATIONS LOCATED BEHIND DOWNSPOUTS WHERE POSSIBLE
MRP	METAL ROOF PANELS
MWP	METAL WALL PANELS
PMC	PREFINISHED METAL COPING
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
PB	PIPE BOLLARD (SEE DETAIL A9.1)
SA	SUSPENDED ALUMINUM AWNING
SV	STONE VENEER (SEE SPECS)
SW50-SW72	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.2)

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: EXTERIOR ELEVATIONS

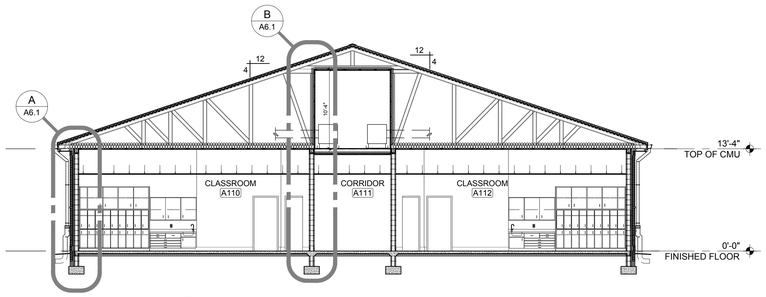
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

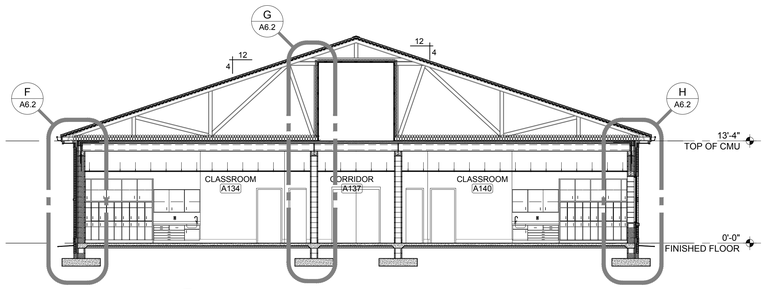
JOB NO. 24-304
SHEET NO: A4.2

0 1" 2"

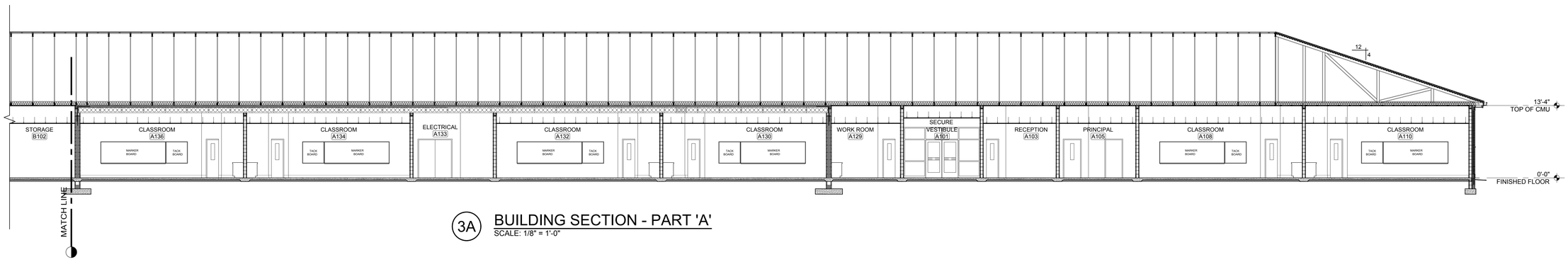
- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A4.X Exterior Elevations.dwg
- Tuesday, January 13, 2026 10:33:08 AM



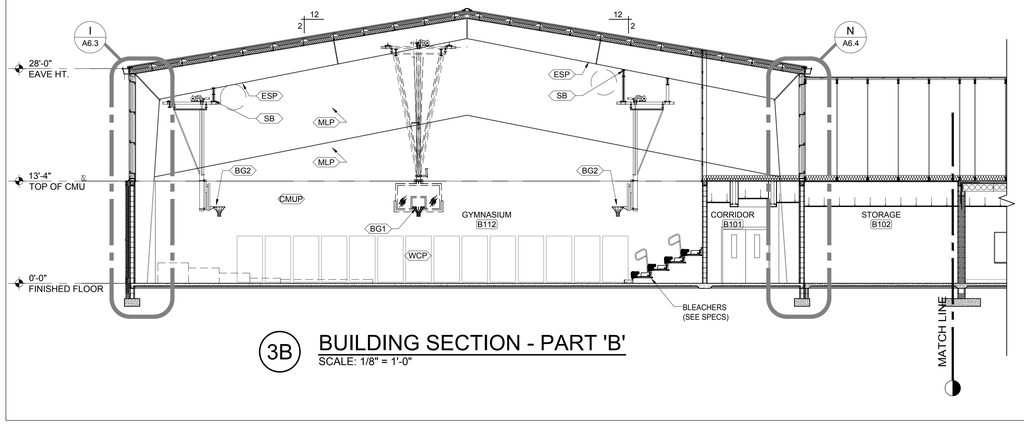
1 **BUILDING SECTION - CLASSROOM**
SCALE: 1/8" = 1'-0"



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



3A **BUILDING SECTION - PART 'A'**
SCALE: 1/8" = 1'-0"



3B **BUILDING SECTION - PART 'B'**
SCALE: 1/8" = 1'-0"

BUILDING SECTION LEGEND

SYMBOL	DESCRIPTION
CMUP	CONCRETE MASONRY UNIT - PAINT
CMU	CONCRETE MASONRY UNIT - NO PAINT
MWP	METAL WALL PANELS
GBP	GYPSUM BOARD - PAINT
GB	GYPSUM BOARD - NO PAINT
IGBP	IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB	IMPACT RESISTANT GYPSUM BOARD - NO PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
GR1	METAL GUARD RAIL - PAINT
HR1	METAL HAND RAIL - PAINT
BGF	BASKETBALL GOAL - FORWARD FOLD
BGS	BASKETBALL GOAL - SIDE FOLD
BGP	BASKETBALL GOAL - PORTABLE
BGW	BASKETBALL GOAL - WALL MOUNTED
WP	WALL PADS
TGS	TELESCOPIC GYMNASIUM SEATING
MO	MASONRY OPENING
CO	CASED OPENING
AP	ACCOUSTICAL WALL PANELS
RAWP	RADIATED ACCOUSTICAL WALL PANELS
AWC	ACCOUSTICAL WALL COVERING
EDP	EXPOSED DUCTWORK - PAINT
ED	EXPOSED DUCTWORK - NO PAINT
ESP	EXPOSED STRUCTURE - PAINT
ES	EXPOSED STRUCTURE - NO PAINT
PLP	PLASTIC LAMINATE PANELS
SGS	SPECIATLY SUSPENDED GRID SYSTEM "CLOUD"

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

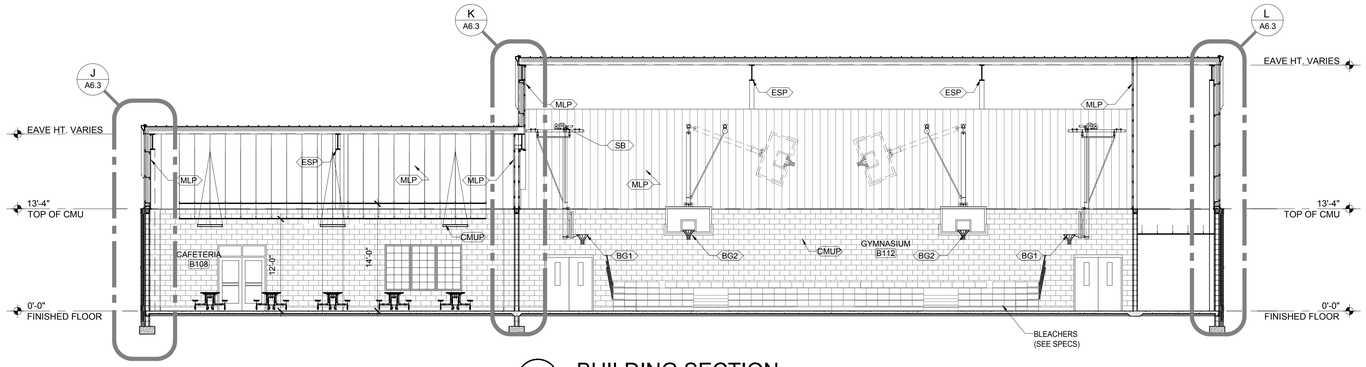
SHEET TITLE: BUILDING SECTIONS

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

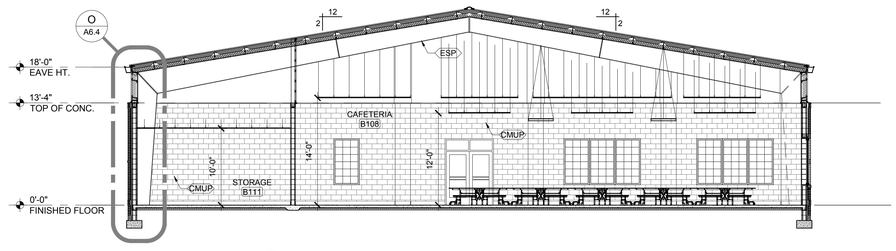
PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A5.1

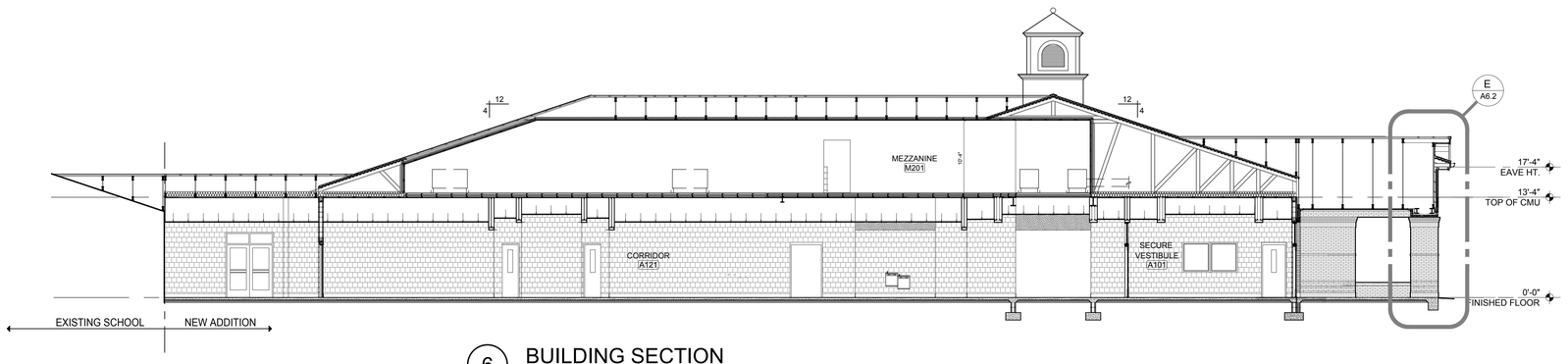
0 1" 2"



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



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



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

BUILDING SECTION LEGEND

SYMBOL	DESCRIPTION
BG1	BASKETBALL GOAL - FOLDING (SEE SPECS)
BG2	BASKETBALL GOAL - SIDE FOLD (SEE SPECS)
CCP	COLUMN CRASH PADS (SEE SPECS)
CMUP	CONCRETE MASONRY UNIT - PAINT
CS	CEILING AS SPECIFIED
ESP	EXPOSED STRUCTURE - PAINT
GBP	GYPSUM BOARD - PAINT
IGBP	IMPACT RESISTANT GYPSUM BOARD - PAINT
MLP	METAL LINER PANEL (SEE SPECS)
MWP	METAL WALL PANEL (SEE SPECS)
PMG	PREFINISHED METAL GUTTER - BY METAL BUILDING MANUFACTURE
PMR	PREFINISHED METAL RAKE - BY METAL BUILDING MANUFACTURE
SB	STEEL BEAM - AS REQUIRED FOR ALL FOLDING GOALS (SEE STRUCTURAL)
SV	STONE VENEER (SEE SPECS)
WCP	WALL CRASH PADS (SEE SPECS)

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: BUILDING SECTIONS

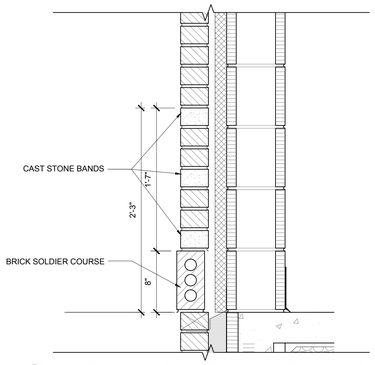
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

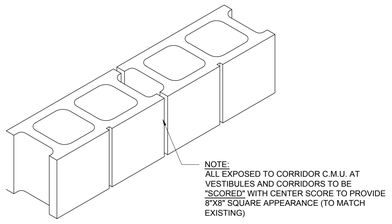
JOB NO. 24-304
SHEET NO:
A5.2

0 1" 2"

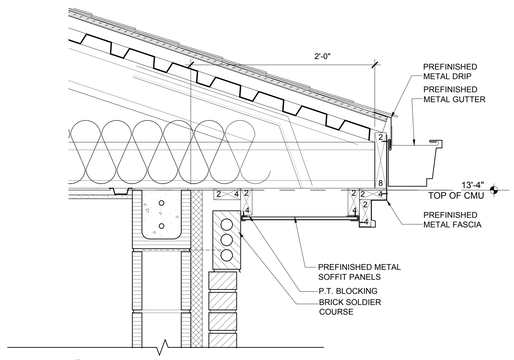
- I:\Users\kddarchitect\LATHAN-McKEE PROJECTS\Andalusia Elem Addition 24-304\A5.X Building Sections.dwg
- Tuesday, January 13, 2026 10:35:58 AM



1 DETAIL - CAST STONE BANDS
SCALE: 1 1/2"=1'-0"

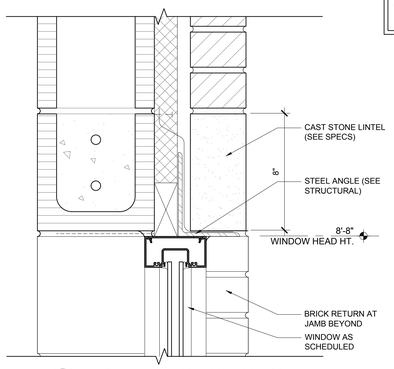


2 DETAIL-SCORED BLOCK
SCALE: 1-1/2"=1'-0" CORRIDORS AND VESTIBULES

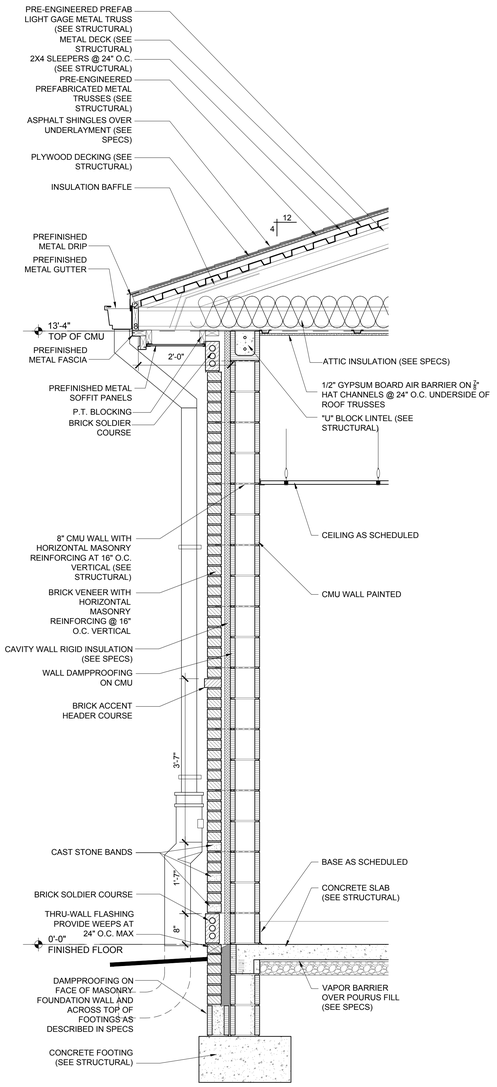


3 TYPICAL EAVE DETAIL
SCALE: 1-1/2"=1'-0"

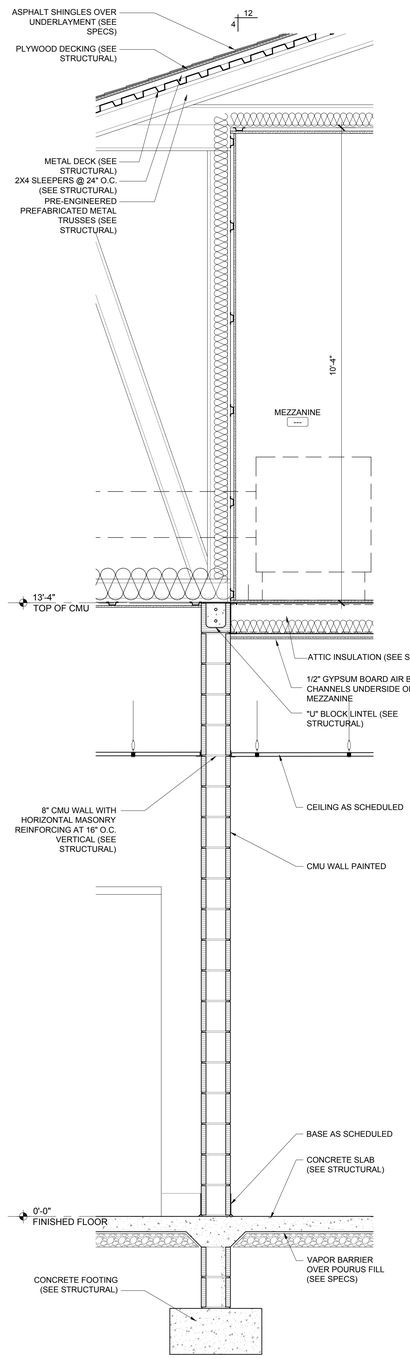
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



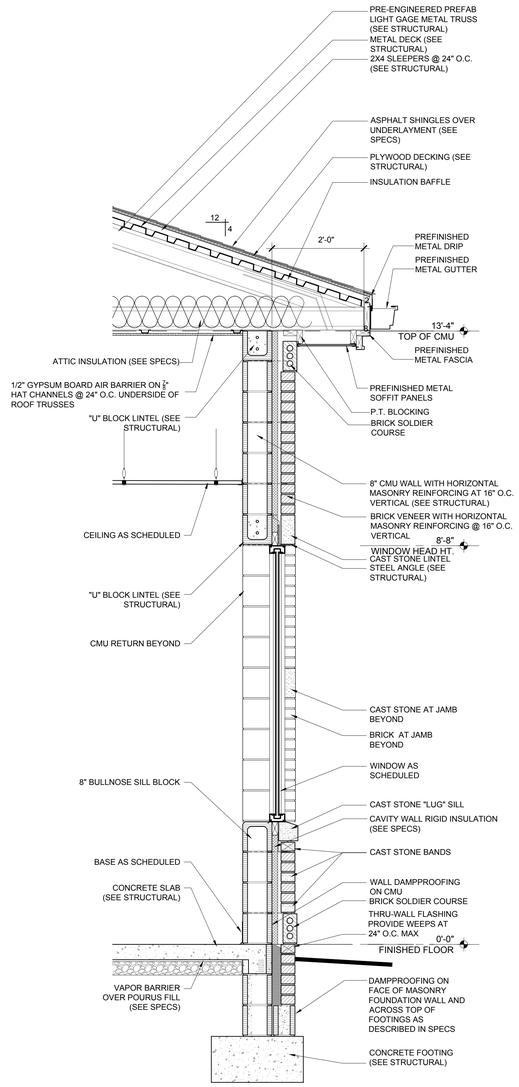
4 DETAIL CAST STONE LINTEL
SCALE: 3"=1'-0"



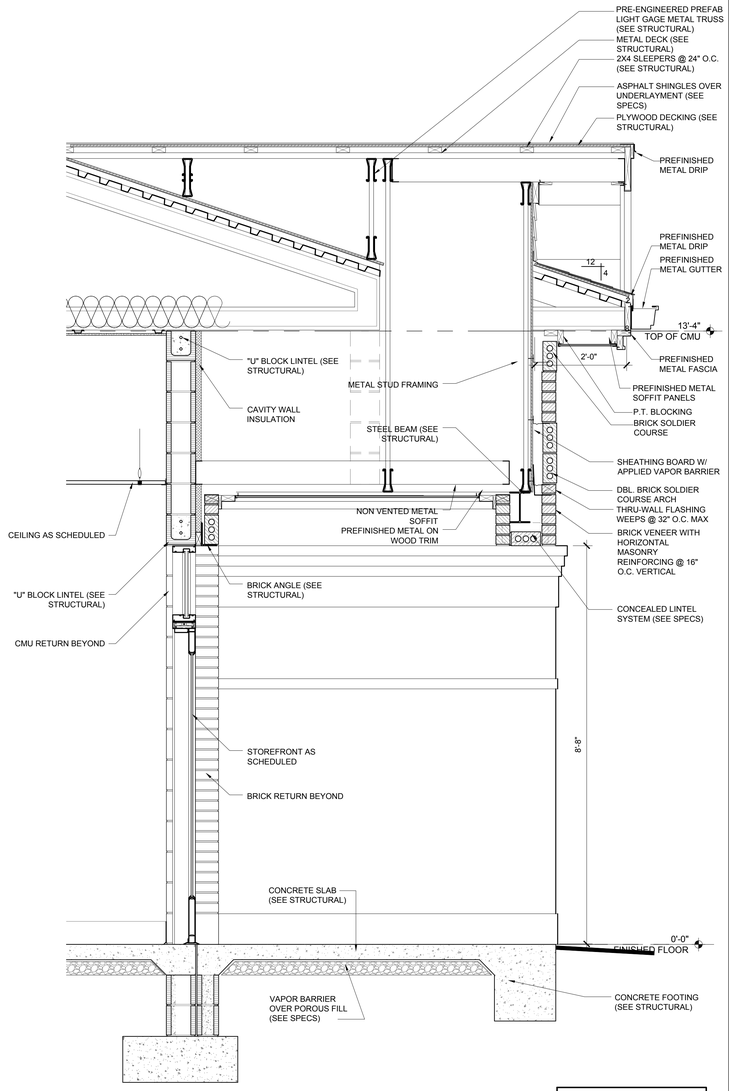
A WALL SECTION
SCALE: 3/4"=1'-0"



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



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



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

NOTE:
VERIFY ACTUAL SIZE AND DEPTH OF FOOTINGS AND BLOCK BELOW FINISH FLOOR WITH STRUCTURAL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: WALL SECTIONS

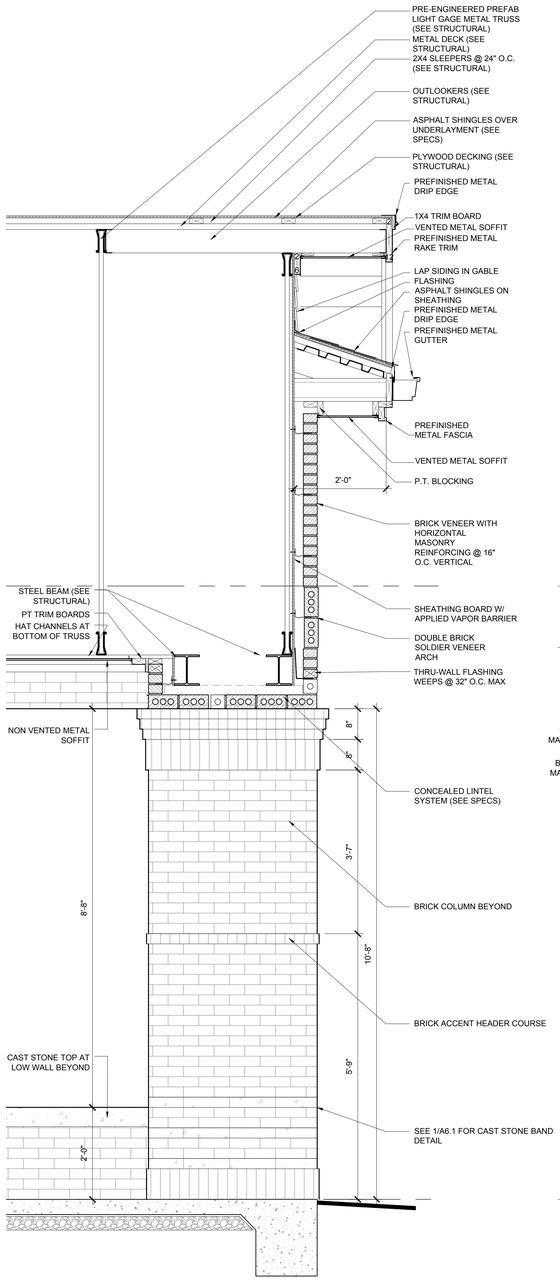
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

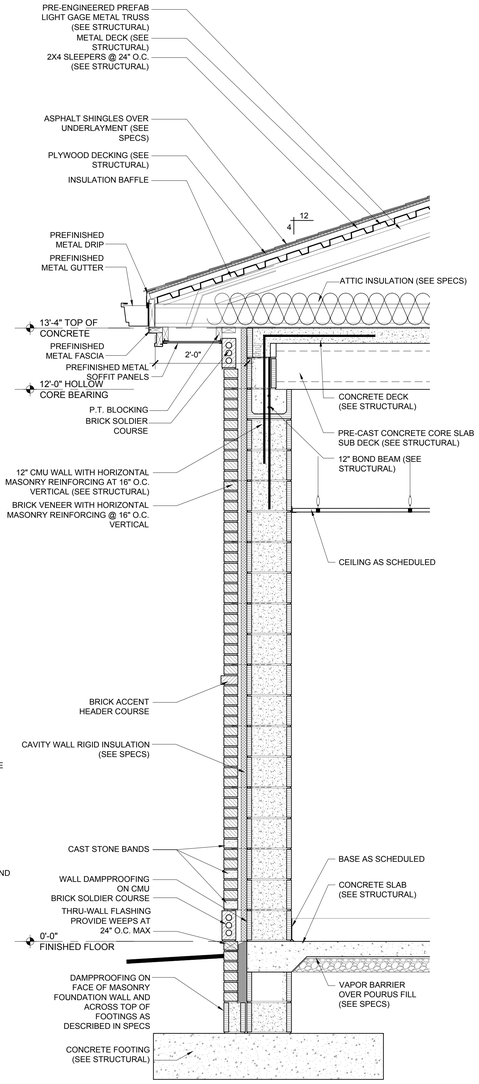
JOB NO. 24-304
SHEET NO:
A6.1

0 1" 2"

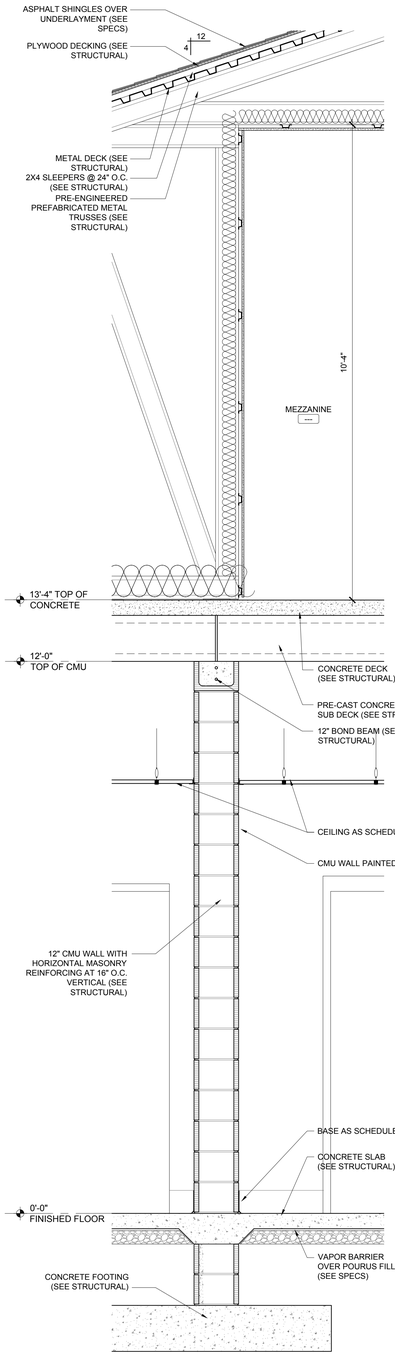
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



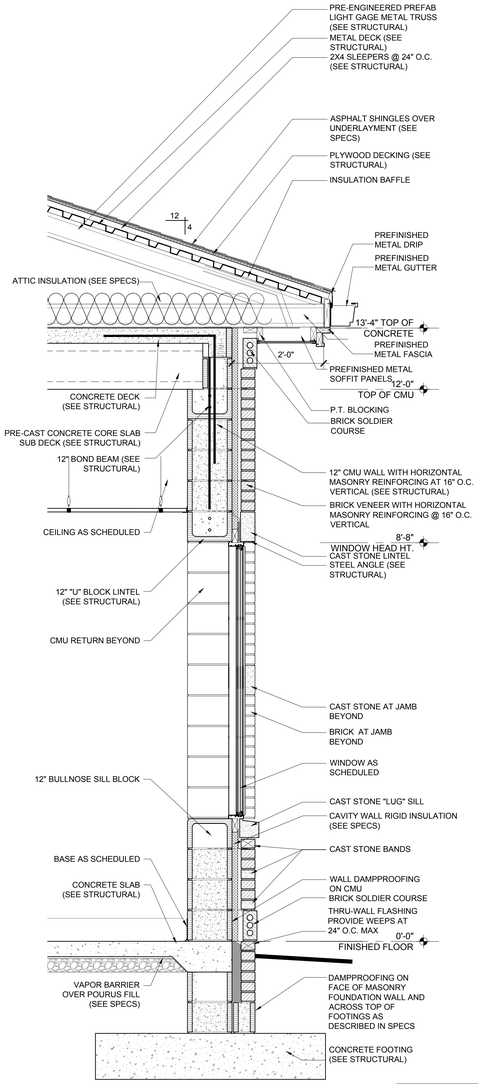
E WALL SECTION
SCALE: 3/4"=1'-0"



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



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



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

NOTE:
VERIFY ACTUAL SIZE AND DEPTH OF FOOTINGS AND BLOCK BELOW FINISH FLOOR WITH STRUCTURAL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: WALL SECTIONS AT SHELTER

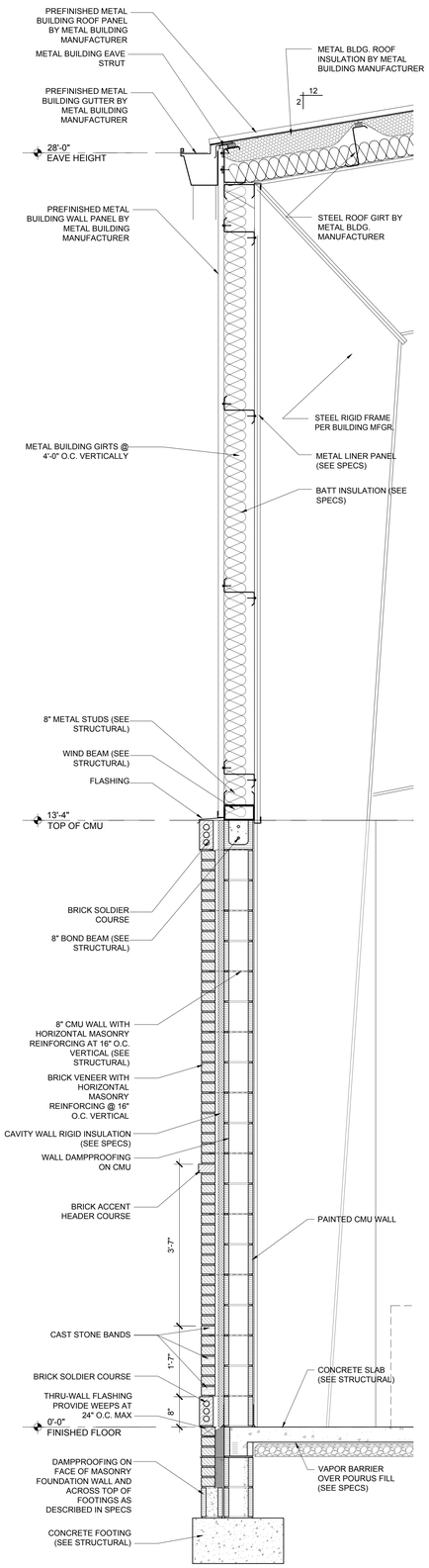
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.:	-
DRAWN:	KDD
DATE:	01.14.2026
REVISIONS	

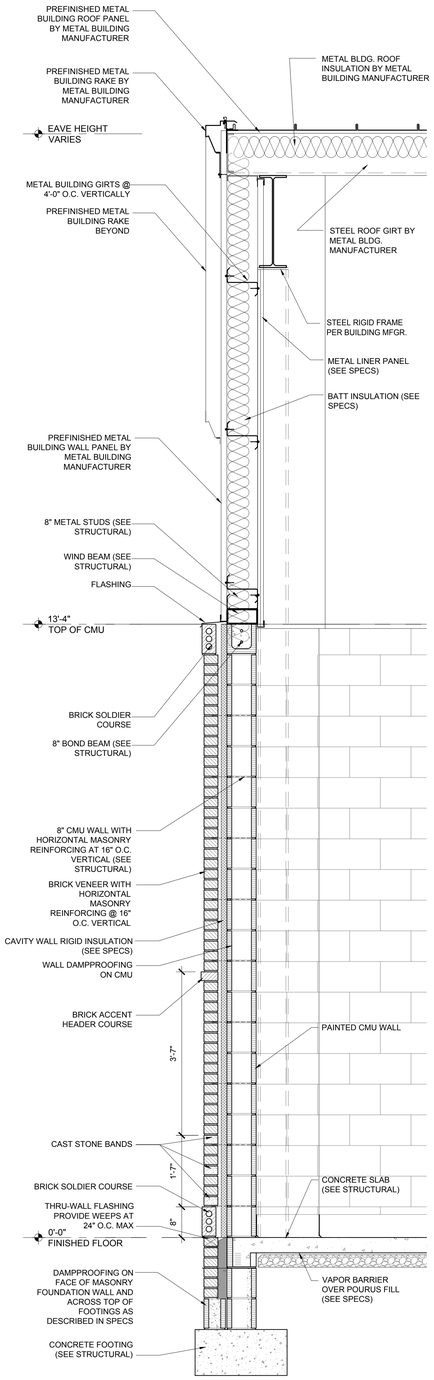
JOB NO. 24-304
SHEET NO: A6.2

0 1" 2"

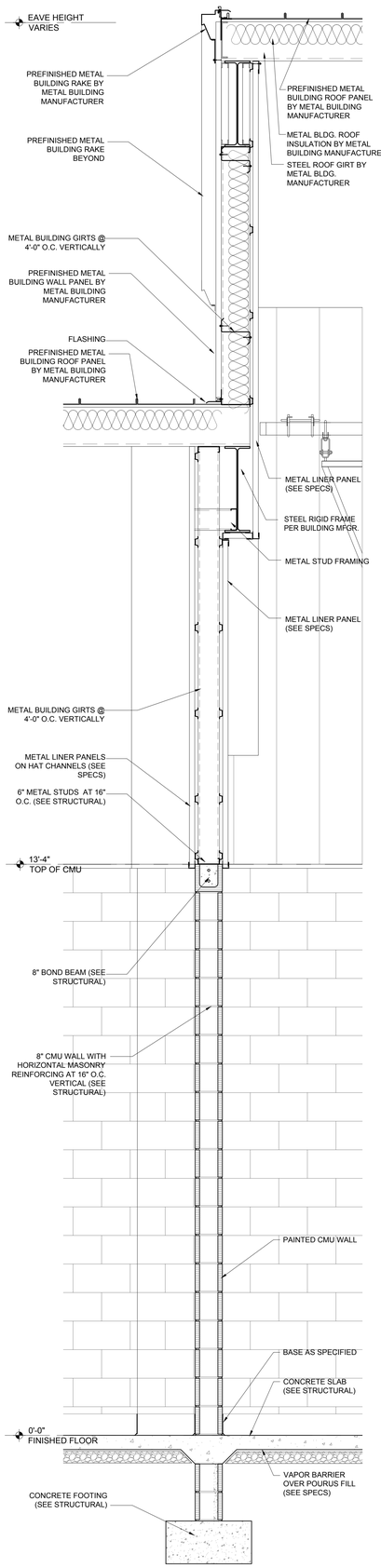
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



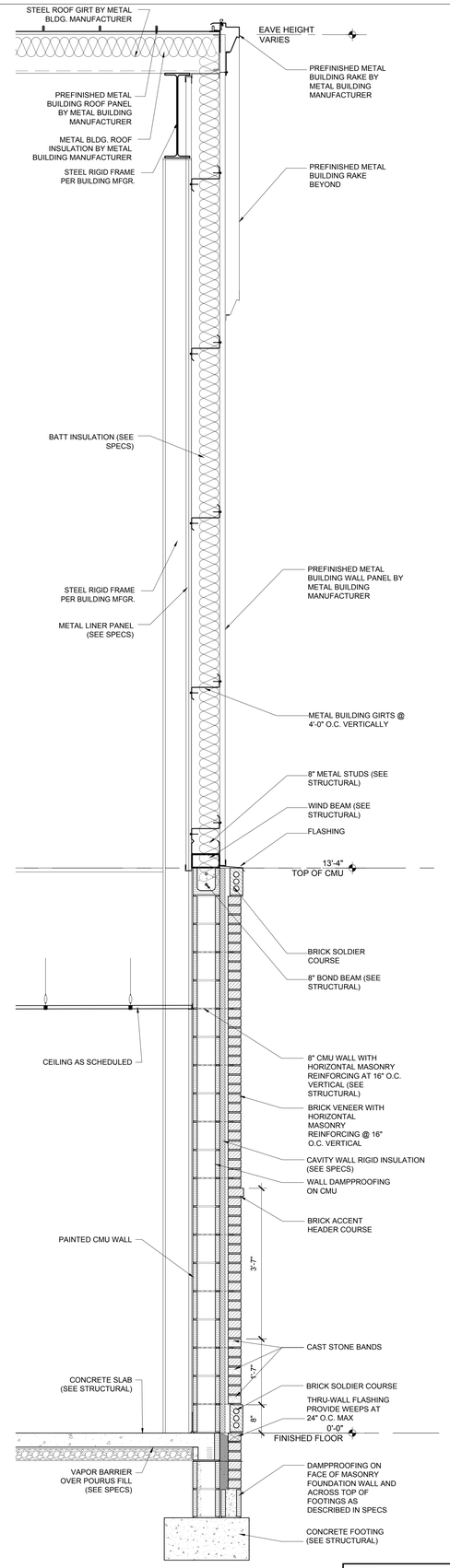
I WALL SECTION
SCALE: 3/4"=1'-0"



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



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



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

NOTE:
VERIFY ACTUAL SIZE AND DEPTH OF FOOTINGS AND BLOCK BELOW FINISH FLOOR WITH STRUCTURAL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: WALL SECTIONS

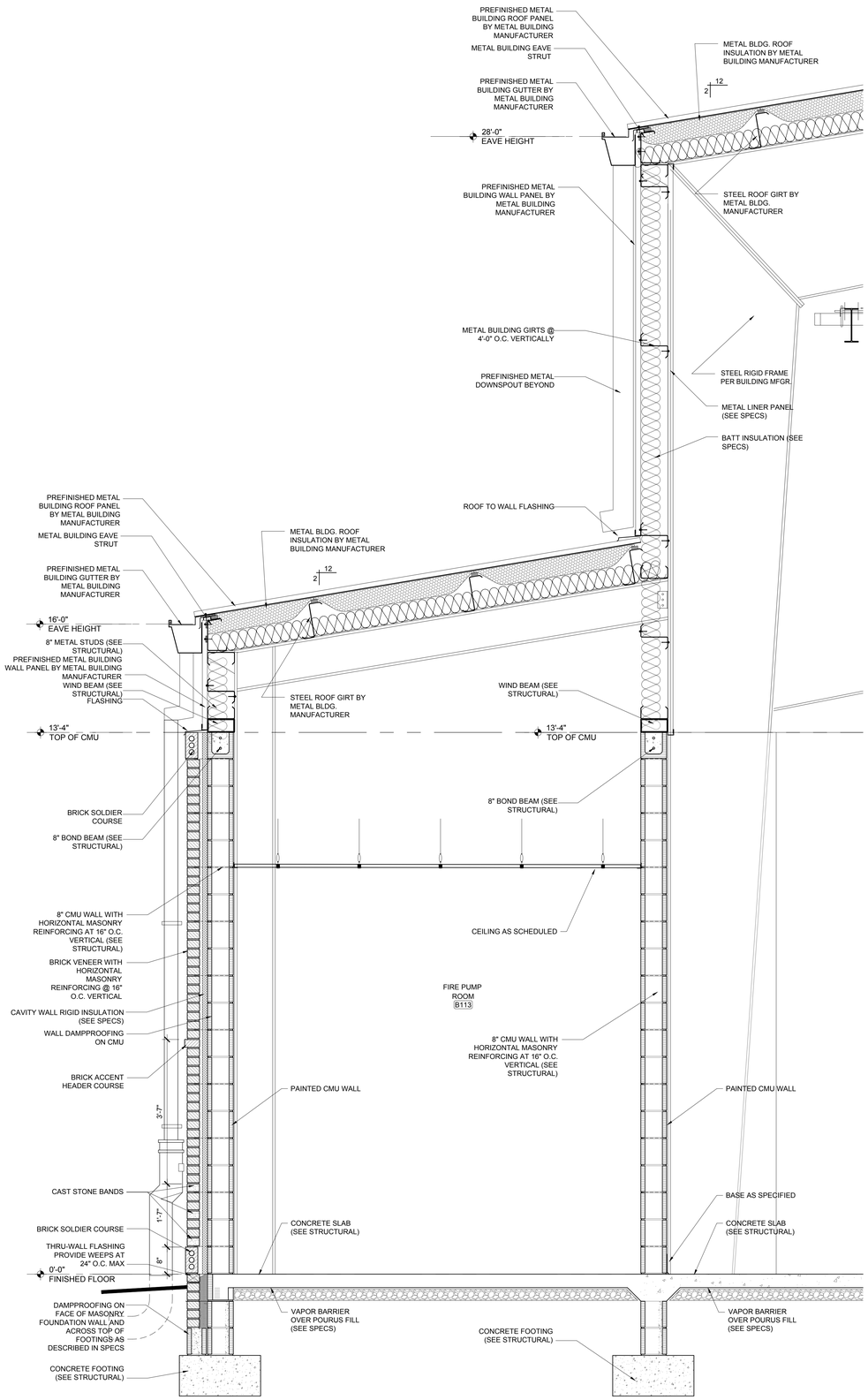
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

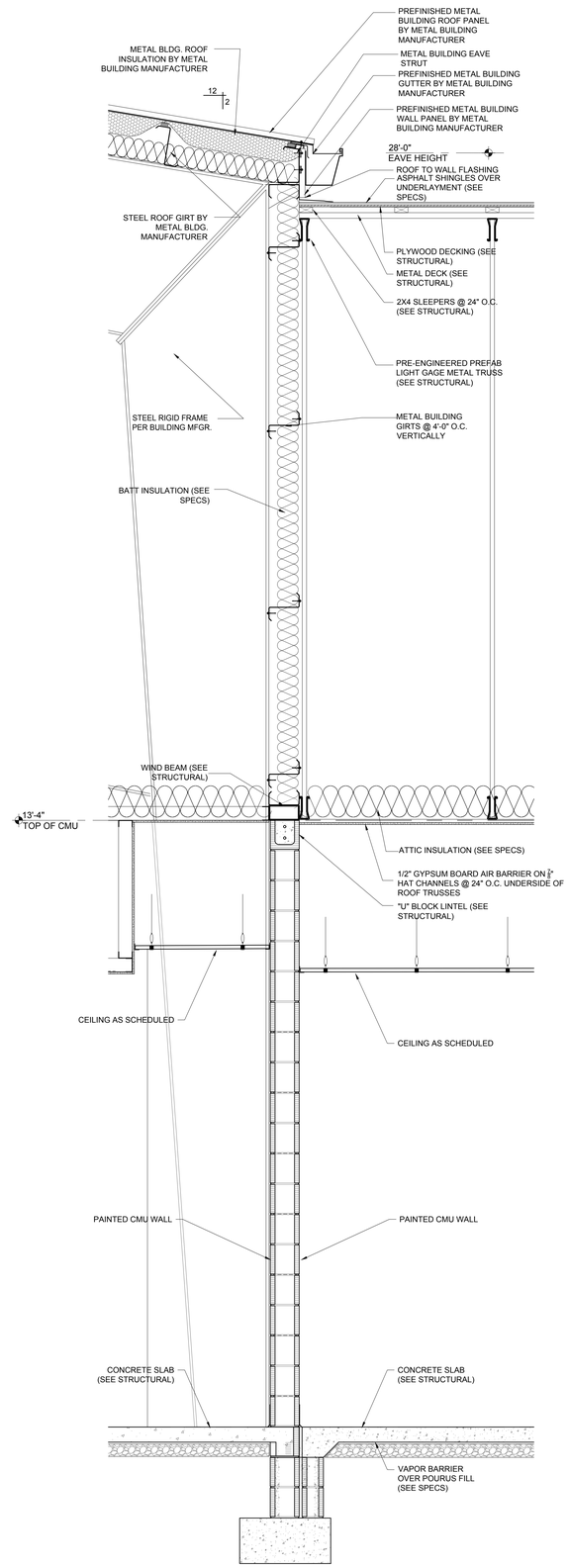
JOB NO. 24-304
SHEET NO: A6.3

0 1" 2"

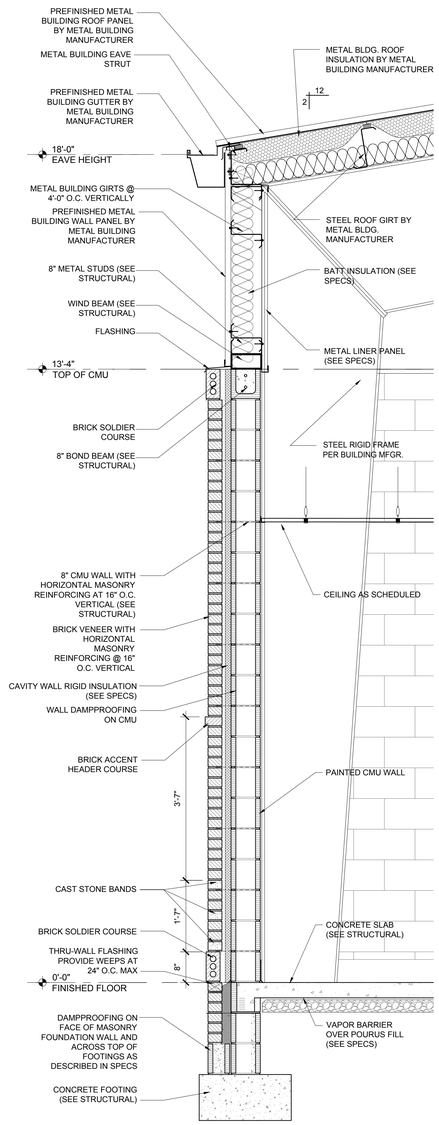
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



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



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



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

NOTE:
VERIFY ACTUAL SIZE AND DEPTH OF FOOTINGS AND BLOCK BELOW FINISH FLOOR WITH STRUCTURAL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: WALL SECTIONS

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

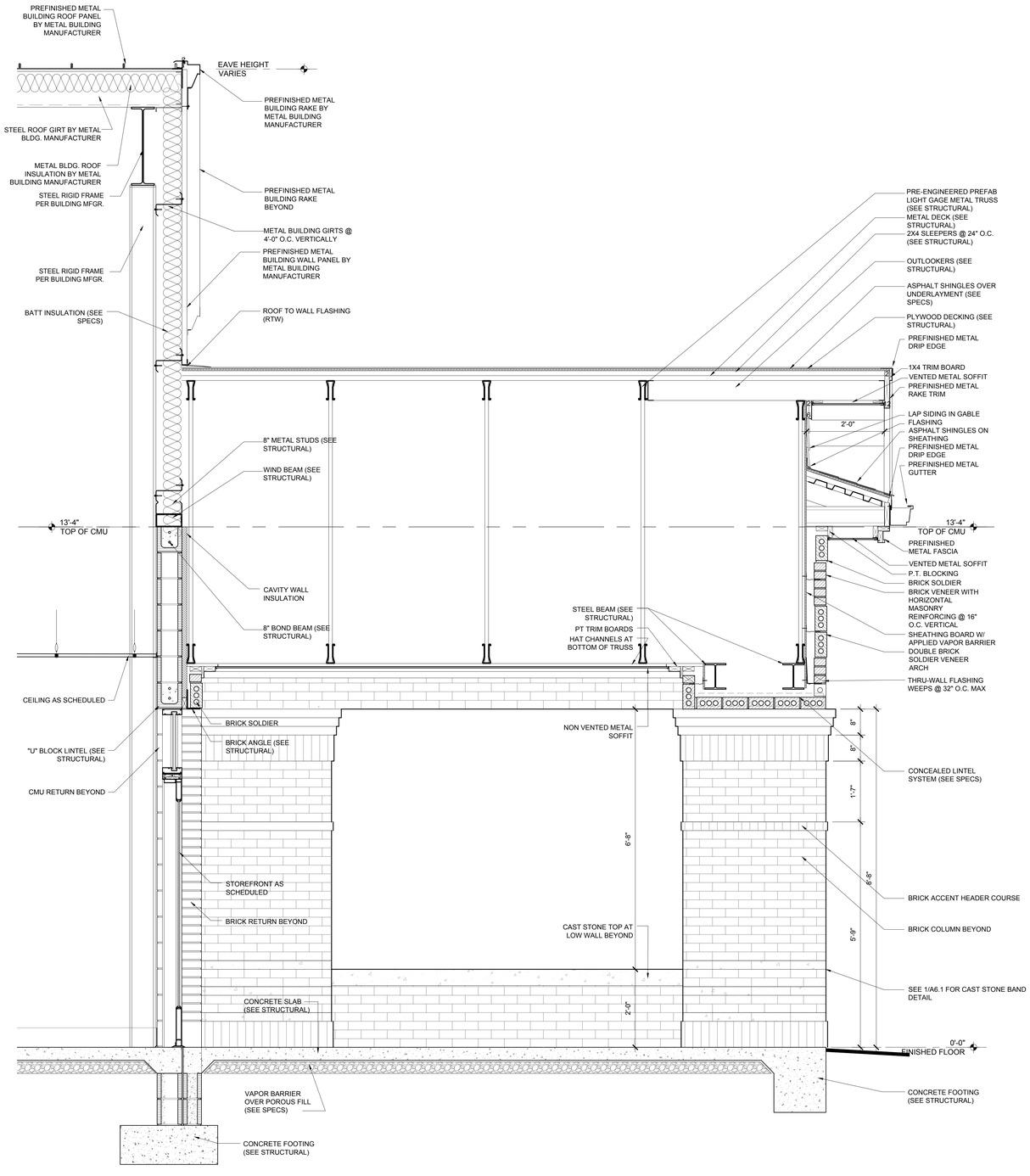
PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: A6.4

0 1" 2"

- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A6.X Wall Sections.dwg
- Tuesday, January 13, 2026 10:40:40 AM

INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



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

NOTE:
VERIFY ACTUAL SIZE AND DEPTH OF FOOTINGS AND BLOCK BELOW FINISH FLOOR WITH STRUCTURAL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: WALL SECTIONS AT SHELTER

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A6.5

0 1" 2"

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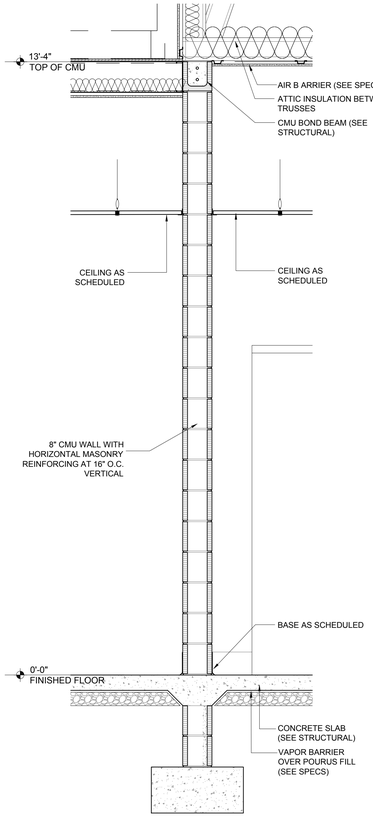
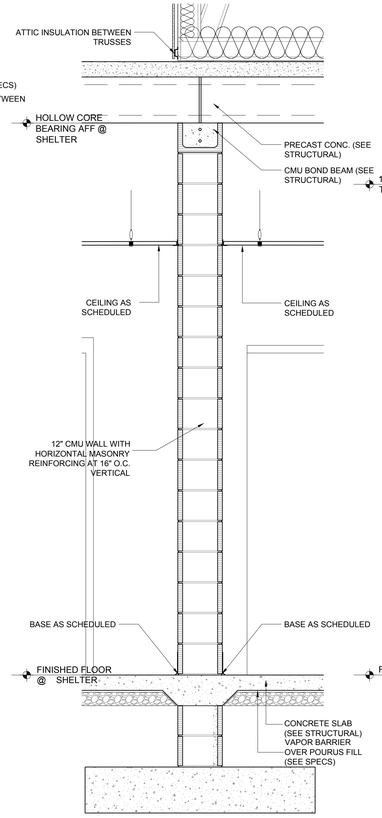
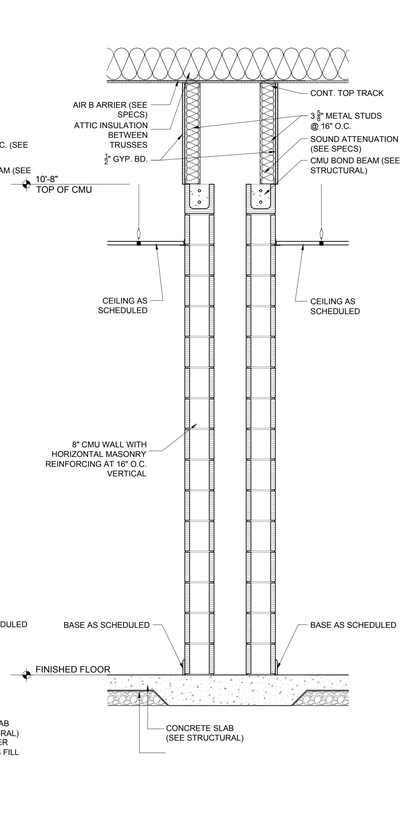


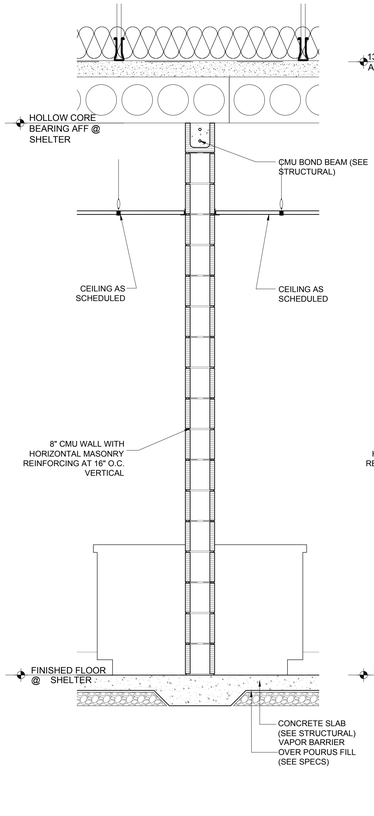
P1 Partition Type
Scale: 3/4" = 1'-0"



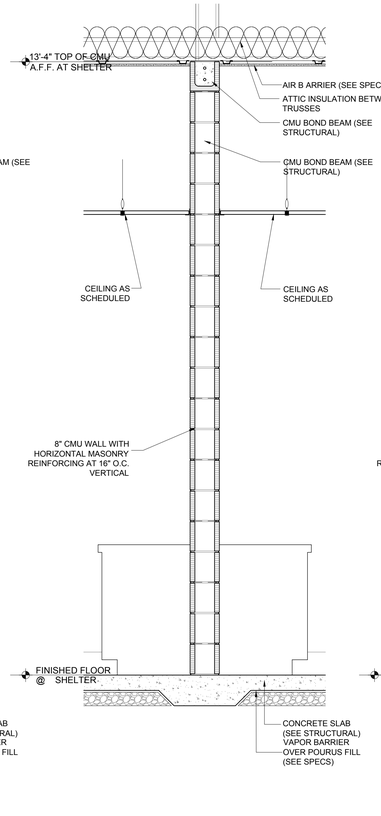
P2 Partition Type
Scale: 3/4" = 1'-0"



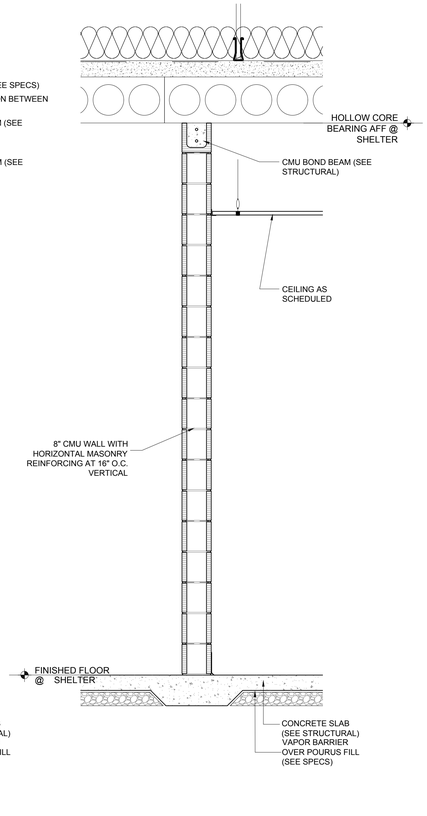
P3 Partition Type
Scale: 3/4" = 1'-0"



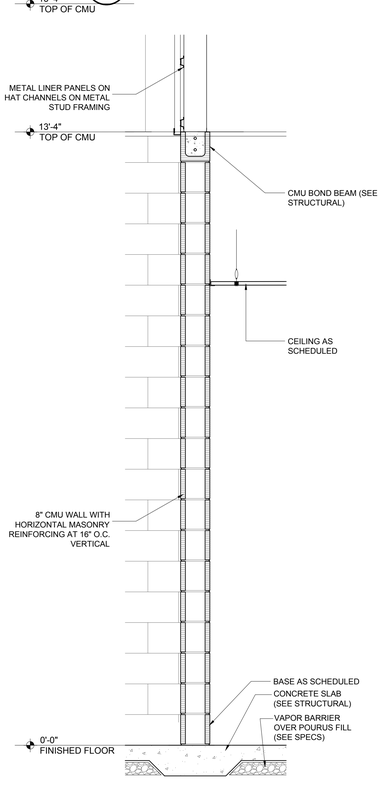
P4 Partition Type
Scale: 3/4" = 1'-0"



P5 Partition Type
Scale: 3/4" = 1'-0"



P6 Partition Type
Scale: 3/4" = 1'-0"



P7 Partition Type
Scale: 3/4" = 1'-0"

LATHAN
▪McKEE
ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: PARTITION TYPES

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A7.1

0 1" 2"

ROOM FINISH SCHEDULE -- PART 'A'

TYPICAL ACRONYMS
---- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
CMUP - CONCRETE MASONRY UNIT - PAINT
IMWP - INTERIOR METAL WALL PANELS

PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE
PSC - POLISHED SEALED CONCRETE
TR - TERRAZZO
SC - SEALED CONCRETE

RFT - RUBBER FLOOR TILES
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
CPT - CARPET
PF - POLYMER FLOORING
QT - QUARRY TILE

RB - RUBBER BASE
WB - WOOD BASE
VCB - VENTILATED COVE BASE
PPF- PAINTED PLYWOOD FLOORING
EPF - EPOXY POLYMER FLOORING
EPB - EPOXY POLYMER COVER BASE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
A101	SECURE VESTIBULE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A102	WAITING	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A103	RECEPTION	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A104	HALL	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A105	PRINCIPAL	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A106	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A107	STAFF TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A108	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A109	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A110	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A111	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A112	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A113	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A114	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A115	BOY'S	PT	PT	PT	PT	PT	PT	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A116	GIRL'S	PT	PT	PT	PT	PT	PT	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A117	ELECTRICAL/MECHANICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A118	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A119	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A120	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A121	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A122	CONNECTOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A123	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A124	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A125	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A126	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A127	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A128	NURSE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A129	WORK ROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A129b	DATA	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A130	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A131	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A132	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A133	ELECTRICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A134	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A135	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A136	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A137	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A138	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A139	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A140	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A141	MECHANICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A142	JANITOR	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A143	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
A144	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
A145	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---

ROOM FINISH SCHEDULE -- PART 'B'

TYPICAL ACRONYMS
---- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
CMUP - CONCRETE MASONRY UNIT - PAINT
IMWP - INTERIOR METAL WALL PANELS

PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE
PSC - POLISHED SEALED CONCRETE
TR - TERRAZZO
SC - SEALED CONCRETE

RFT - RUBBER FLOOR TILES
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
CPT - CARPET
EPF - EPOXY POLYMER FLOORING
QT - QUARRY TILE

RB - RUBBER BASE
WB - WOOD BASE
VCB - VENTILATED COVE BASE
PPF- PAINTED PLYWOOD FLOORING

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
B101	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B102	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B103	BOY'S	PT	PT	PT	PT	PT	PT	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
B104	GIRL'S	PT	PT	PT	PT	PT	PT	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
B104b	CLOSET	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B105	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B105b	ELECTRICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B106	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
B107	JANITOR	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B108	CAFETERIA	EPF	EPB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B109	STORAGE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B110	UNISEX TOILET	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	PORCELAIN TILE WAINSCOT ALL WALLS
B111	TABLE/CHAIR STORAGE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B112	GYMNASIUM	RSF	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B113	FIRE PUMP ROOM	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B114	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B115	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B116	OFFICE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
B117	MECHANICAL/ELECTRICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: FINISH SCHEDULE

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A8.1

0 1" 2"

DOOR SCHEDULE -- PART 'A'

DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
A101a	PR. 3'-6"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF1	FACTORY	---	5/A8.4	6/A8.4	---	---
A101b	PR. 3'-6"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF2	FACTORY	---	13/A8.4	14/A8.4	---	---
A102	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	WAITING	---
A103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	RECEPTION	---
A105a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	PRINCIPAL	---
A105b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	PRINCIPAL	---
A106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
A107	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	STAFF TOILET	---
A108	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A109a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A109b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A110	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A111	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4		---
A112	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A113a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A113b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A114	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A115	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	BOY'S	---
A116	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	GIRL'S	
A117	4'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	ELECTRICAL/MECHANICAL	PANIC BAR REQUIRED
A118	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A119a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A119b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A120	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A121	PR.3'-6"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM2	PAINT	1 1/2 HOUR	7/A8.4	8/A8.4		---
A122a	PR.3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4		---
A122b	PR.3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4		---
A123	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A124a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A124b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A125	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLASSROOM	---
A126	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
A127	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A128	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	NURSE	---
A129	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	WORKROOM	---
A129b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	DATA	---
A130	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A131a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A131b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A132	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A133	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM2	PAINT	---	11/A8.4	12/A8.4	ELECTRICAL	PANIC BAR REQUIRED
A134	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A135a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A135b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A136	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A137a	PR. 4'-0"	7'-0"	1 3/4"	STORM DOOR	C	PAINT	HM2	PAINT	1 1/2 HOUR	11/A8.4	12/A8.4		STORM SHELTER DOOR - SEE SPECS
A137b	PR. 4'-0"	7'-0"	1 3/4"	STORM DOOR	C	PAINT	HM2	PAINT	1 1/2 HOUR	11/A8.4	12/A8.4		STORM SHELTER DOOR - SEE SPECS
A138	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A139a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A139b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A140	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A141	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	MECHANICAL	---
A142	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	JANITOR	---
A143	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---
A144a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A144b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
A145	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	---	11/A8.4	12/A8.4	CLASSROOM	---

DOOR SCHEDULE -- PART 'B'

DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
B101a	PR. 3'-6"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF4	FACTORY	---	5/A8.4	4/A8.4	---	---
B101b	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4	---	---
B102	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	BOY'S	---
B104a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	GIRL'S	---
B104b	2'-4"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	CLOSET	---
B105	3'-4"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B105b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	ELECTRICAL	PANIC BAR REQUIRED
B106	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	---	1/A8.4	2/A8.4	UNISEX TOILET	---
B107	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	JANITOR	---
B108a	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	CAFETERIA	---
B108b	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4	---	---
B108c	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4	---	---
B109	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B110a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	UNISEX TOILET	---
B110b	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	---	1/A8.4	2/A8.4	UNISEX TOILET	---
B111	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B112a	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4	---	---
B112b	PR. 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	5/A8.4	4/A8.4	---	---
B112c	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	GYMNASIUM	---
B112d	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	GYMNASIUM	---
B113	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM2	PAINT	---	1/A8.4	2/A8.4	FIRE SPRINKLER ROOM	*SIGN IN CONTRASTING COLOR WITH 2 INCH LETTERS AS REQUIRED BY IBC 2021
B114	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B115	PR. 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM2	PAINT	---	7/A8.4	8/A8.4	STORAGE	---
B116	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	OFFICE	---
B117	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	PAINT	HM1	PAINT	---	7/A8.4	8/A8.4	MECHANICAL/ELECTRICAL	PANIC BAR REQUIRED

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/8 INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

SIGNAGE NOTES:

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED. FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S) AND HANDICAPED ACCESS SIGN TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) -SEE DIAGRAM.

LABELED DOOR AND FRAME NOTE:

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS. LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

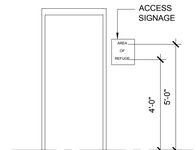


Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

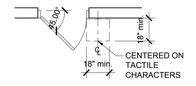


Figure 703.4.2
Location of Tactile Signs at Doors

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: DOOR SCHEDULE

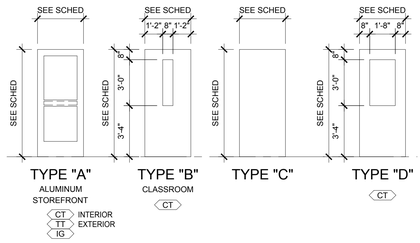
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

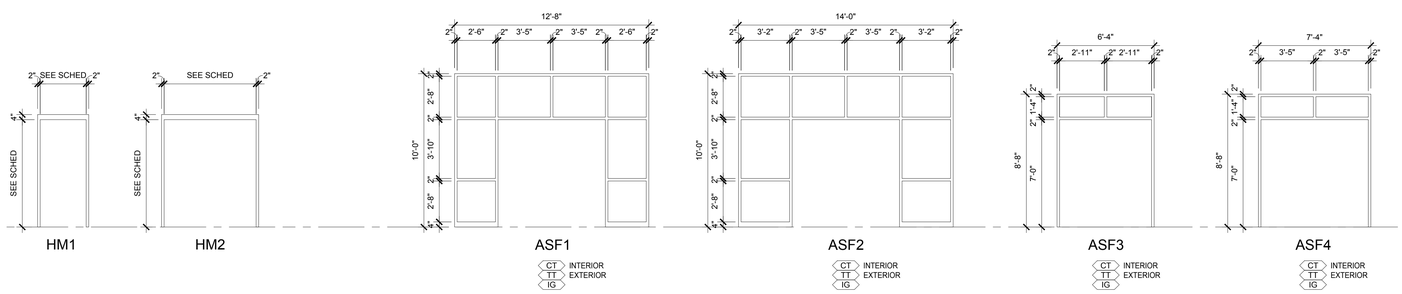
JOB NO. 24-304
SHEET NO:
A8.2

0 1" 2"

- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addtion 24-304/A8.X Schedules.dwg
- Tuesday, January 13, 2026 10:44:06 AM

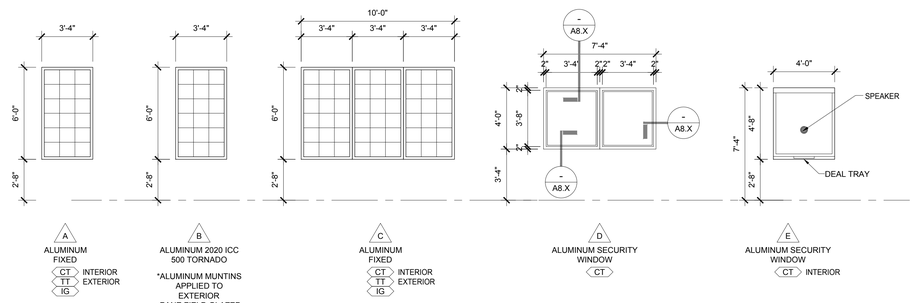


TYPICAL DOOR TYPES
SCALE: 1/4" - 1'-0"



TYPICAL FRAME TYPES
SCALE: 1/4" - 1'-0"

TYPICAL ALUMINUM STOREFRONT TYPES
SCALE: 1/4" - 1'-0"



TYPICAL WINDOW TYPES
SCALE: 1/4" - 1'-0"

NOTE:
VERIFY ALUMINUM STOREFRONT DIMENSIONS

GLAZING SCHEDULE	
SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
IG	INSULATING GLASS
TT	TINTED TEMPERED
FG	FIRE GLASS

LATHAN ▪McKEE ARCHITECTS

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ANDALUSIA, ALABAMA

SHEET TITLE: DOOR AND WINDOW TYPES

STATE OF ALABAMA
WALTER T. McKEE, JR.
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PROJ. MGR.: -
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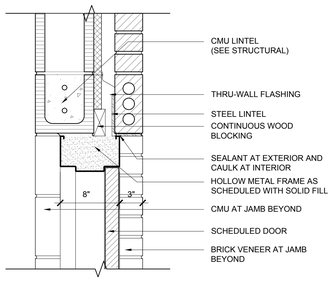
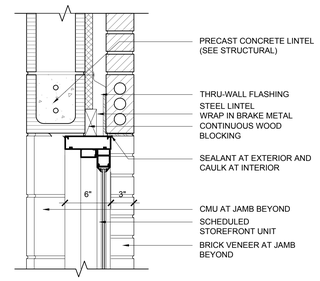
JOB NO. 24-304
SHEET NO:
A8.3

0 1" 2"

GENERAL NOTE: WRAP ALL EXPOSED STEEL LINTELS AND PLATES IN BRAKE METAL TYPICAL



1 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



3 DOOR DETAIL
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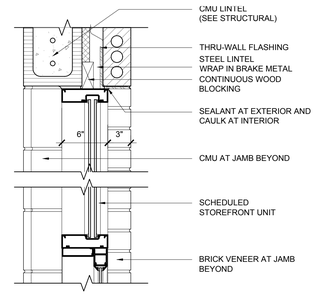
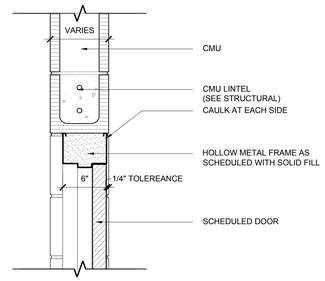
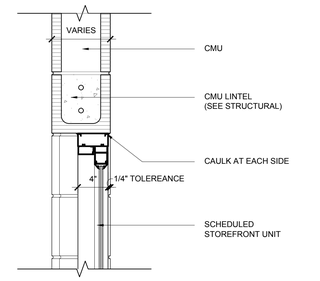


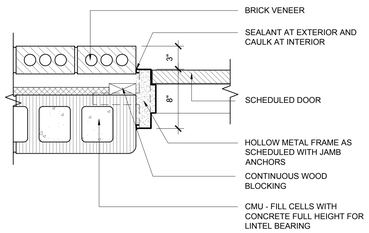
5 DOOR DETAIL
SCALE: 1 1/2"=1'-0" ~~HEAD~~



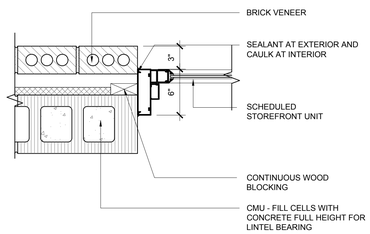
7 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



9 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



2 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



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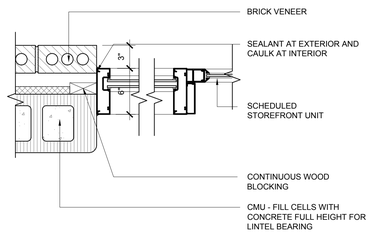
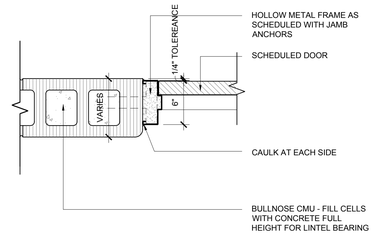
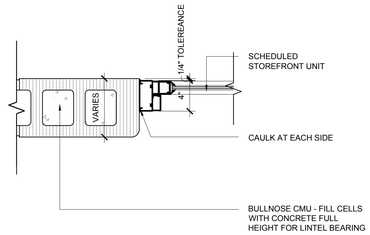


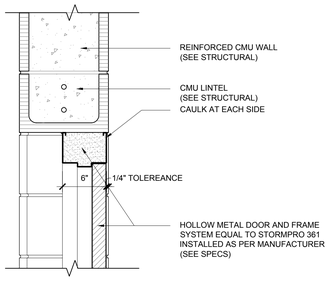
6 DOOR DETAIL
SCALE: 1 1/2"=1'-0" ~~JAMB~~



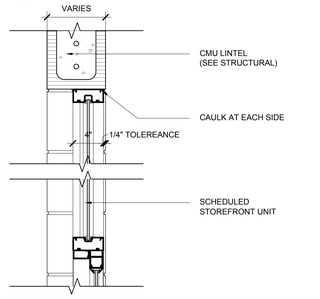
8 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



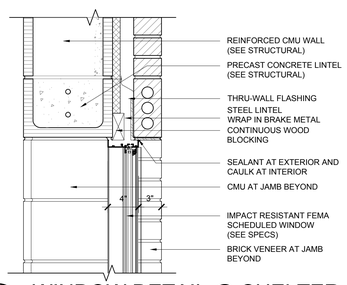
10 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



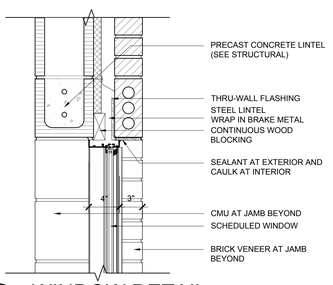
11 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



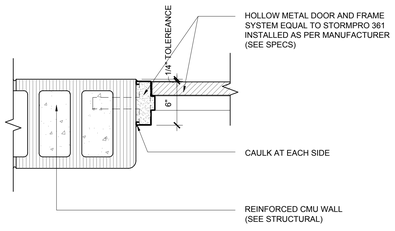
13 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



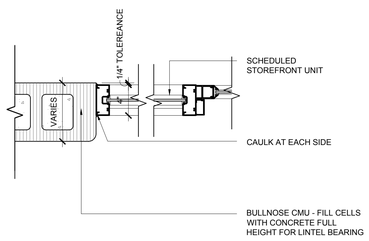
15 WINDOW DETAIL @ SHELTER
SCALE: 1 1/2"=1'-0" HEAD



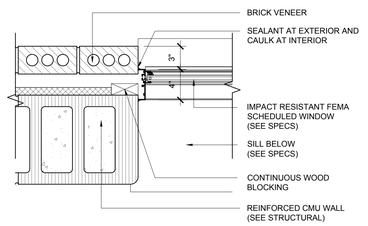
18 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" HEAD



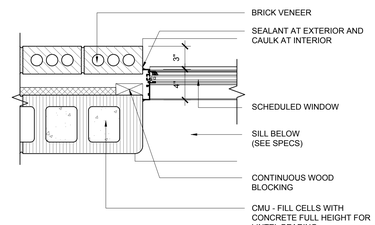
12 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



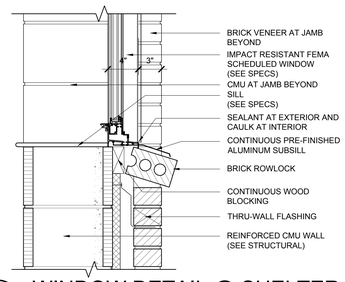
14 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



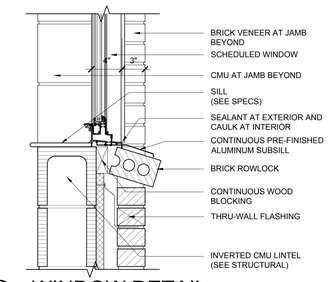
16 WINDOW DETAIL @ SHELTER
SCALE: 1 1/2"=1'-0" JAMB



19 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" JAMB



17 WINDOW DETAIL @ SHELTER
SCALE: 1 1/2"=1'-0" SILL



20 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" SILL

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

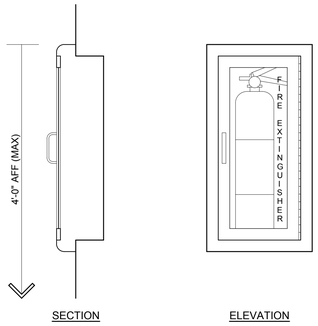
SHEET TITLE: DOOR AND WINDOW DETAILS

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

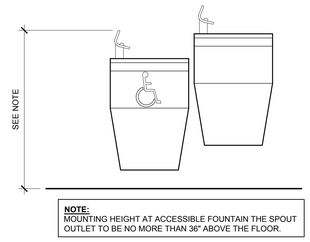
PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A8.4

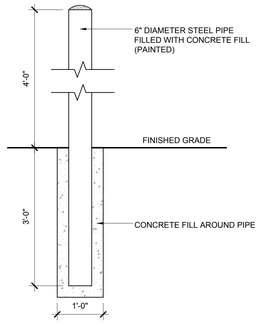
0 1" 2"



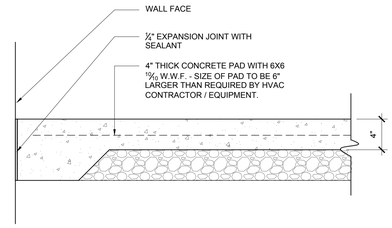
FIRE EXTINGUISHER CABINET (FEC)
SCALE: 1 1/2" - 1'-0"



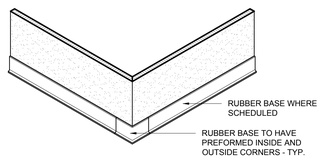
ELECTRIC WATER COOLER (EWC)
SCALE: 1 1/2" - 1'-0"



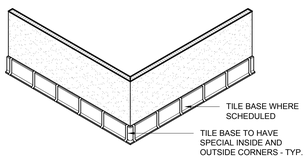
PIPE BOLLARD (PB)
SCALE: 1 1/2" - 1'-0"



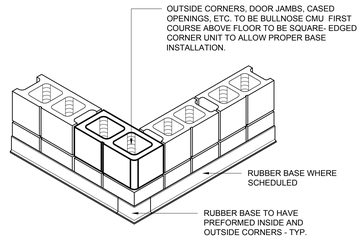
HVAC EQUIPMENT PAD (CEP)
SCALE: 1 1/2" - 1'-0"



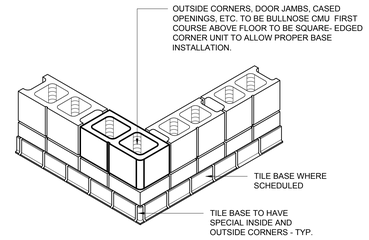
RUBBER BASE DETAIL
SCALE: 3/4" - 1'-0"



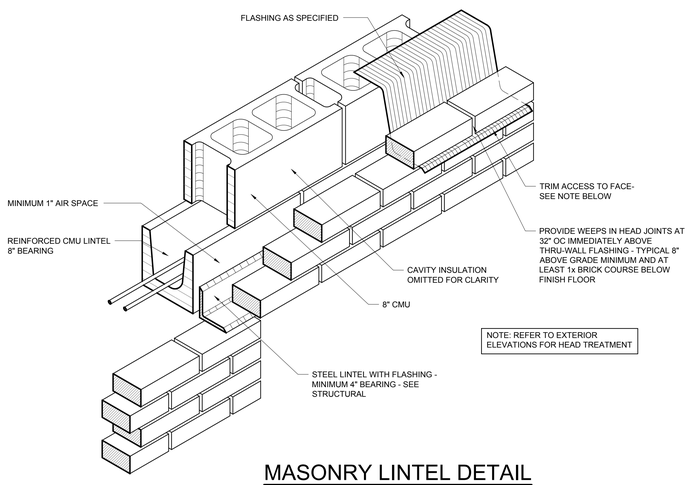
HARD TILE DETAIL
SCALE: 3/4" - 1'-0"



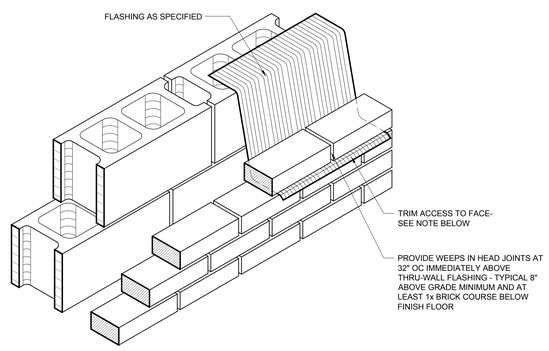
RUBBER BASE DETAIL
SCALE: 3/4" - 1'-0"



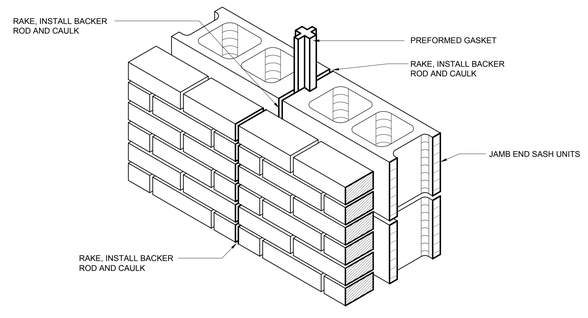
HARD TILE DETAIL
SCALE: 3/4" - 1'-0"



MASONRY LINTEL DETAIL
SCALE: 1 1/2" - 1'-0"



THRU-WALL FLASHING DETAIL
SCALE: 1 1/2" - 1'-0"



MASONRY CONTROL JOINT DETAIL (MCJ)
SCALE: 1 1/2" - 1'-0"

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: MISCELLANEOUS DETAILS

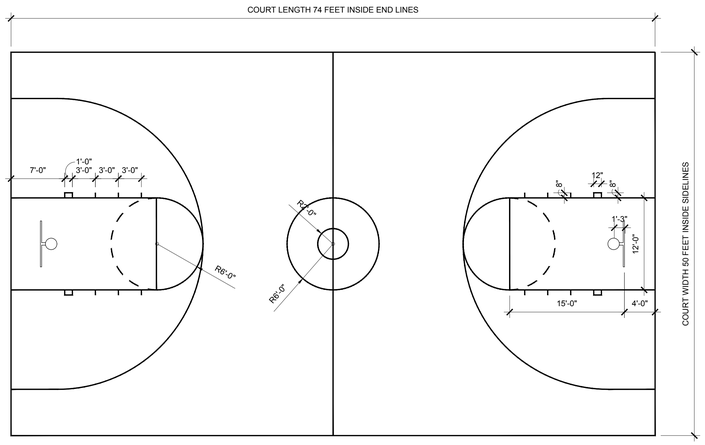
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A9.1

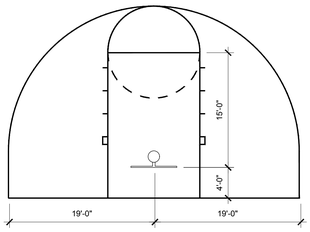
0 1" 2"

- /Users/kddarchitect/LATHAN-McKEE PROJECTS/Andalusia Elem Addition 24-304/A9.X Miscellaneous Details.dwg
- Tuesday, January 13, 2026 10:44:52 AM

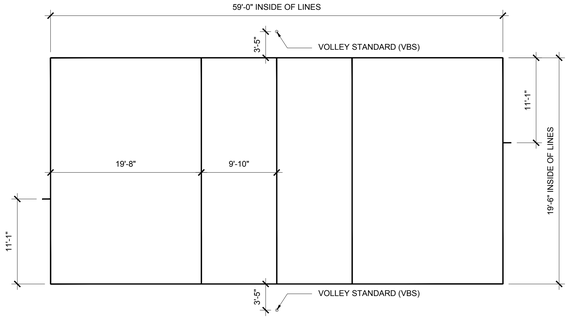


BASKETBALL COURT DIAGRAM
SCALE: 1 1/2" - 1'-0"

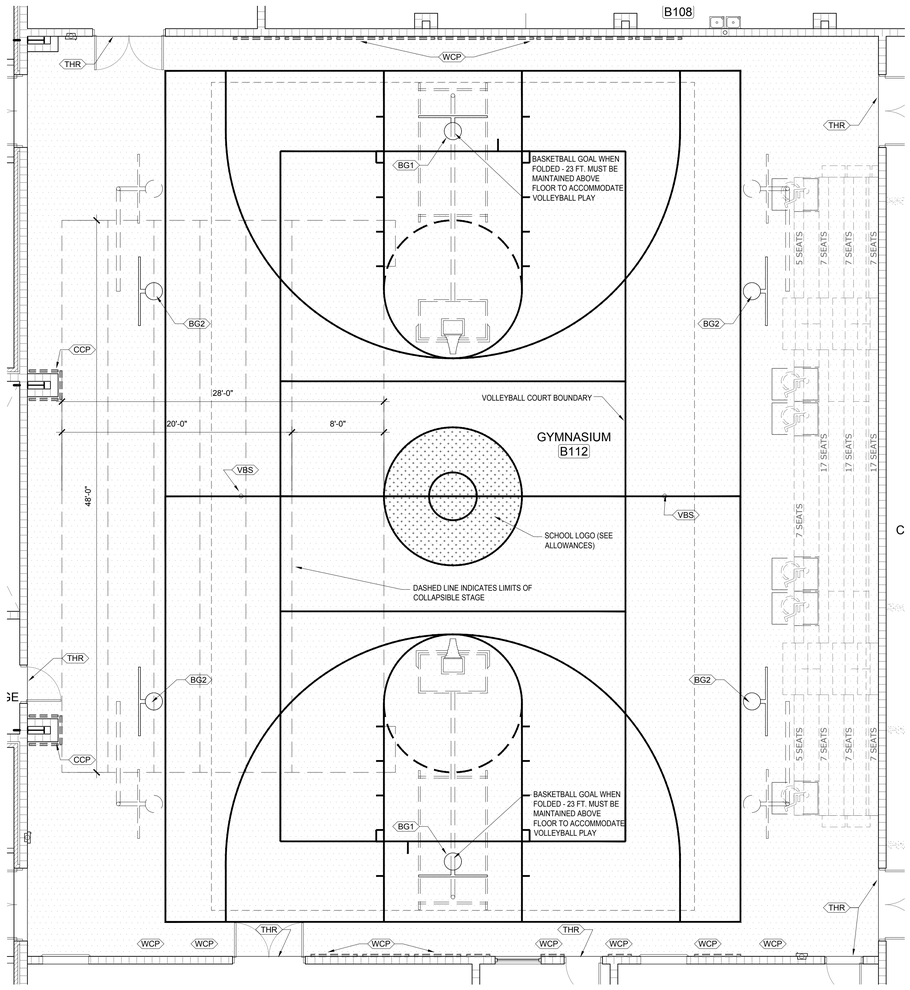
NOTE: ALL COURT LAYOUTS ARE TO CONFORM TO AHSSA GUIDELINES.



3 POINT GOAL DIAGRAM
SCALE: 1 1/2" - 1'-0"



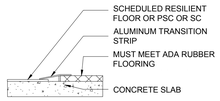
VOLLEYBALL COURT DIAGRAM
SCALE: 1 1/2" - 1'-0"



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

TRUE NORTH

COURT PLAN LEGEND	
MARK	DESCRIPTION
BG1	BASKETBALL GOAL-TYPE 1-FOWARD FOLDING
BG2	BASKETBALL GOAL-TYPE 2-SIDE FOLDING (SEE SPECS)
CCP	COLUMN CRASH PAD (SEE SPECS)
WCP	WALL CRASH PAD (SEE SPECS)
VBS	VOLLEYBALL STANDARD SLEEVE (SEE SPECS)
THR	THRESHOLD TRANSITION (SEE DETAIL 1/A9.2)
	LIMITS OF POURED RUBBER FLOORING
	BASKETBALL CENTER COURT LOGO LOCATION



1 RUBBER TO RESILIENT FLOOR/PSC
SCALE: 3"=1'-0"

LATHAN ▪ McKEE ARCHITECTS

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ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: MISCELLANEOUS DETAILS - BASKETBALL COURT

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A9.2

0 1" 2"

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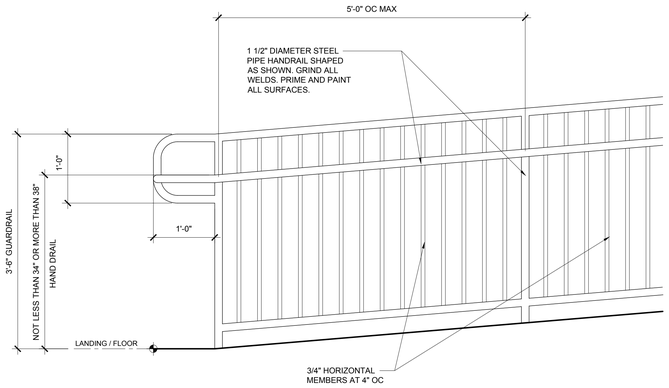
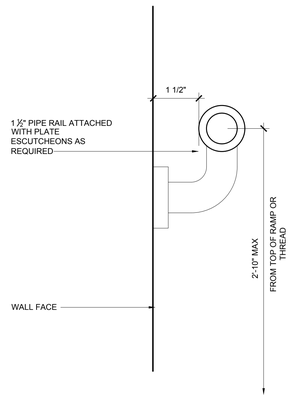


METAL GUARDRAIL / HANDRAIL AT RAMP (GR/HR)

SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL SECTION AT WALL

SCALE: 6" - 1'-0"

CODE NOTES:

1) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 IN. AND NOT MORE THAN 2 IN. (IBC SEC 1012.3)

2) INTERMEDIATE BALLISTERS, ORNAMENTAL PATTERNS OR PICKETS SHALL BE SPACED SUCH THAT A 4 IN. DIAMETER SPHERE SHALL NOT PASS THROUGH ANY OPENING. (IBC SEC 1013.3)

3) WALL HANDRAILS SHALL BE RETURNED TO THE WALL. THEY SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, AT LEAST 12 IN. BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DEPTH OF ONE TREAD BEYOND THE FIRST RISER. (IBC SEC 1012.5)

GENERAL NOTES:

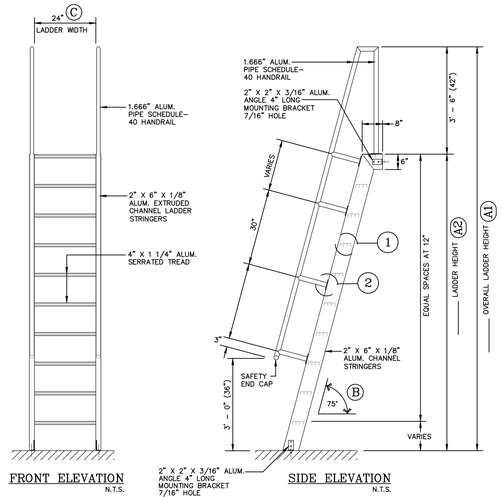
1) ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY W/ THE AMERICAN WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE.

2) ALL WELDS ON METAL STAIRS ARE TO BE GROUND SMOOTH.

3) PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.

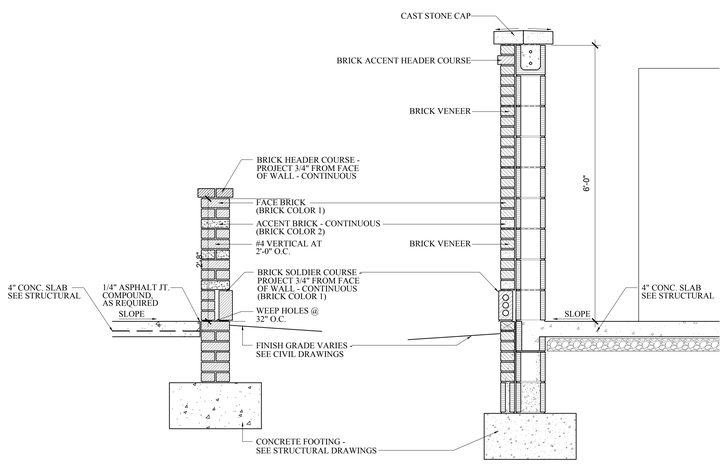
4) FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION. AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.

5) ALL RAILING COMPOSITIONS ARE TO BE EQUALLY SPACED ALONG A CONTINUOUS RUN. THE COMPOSITIONS ARE TO BE CENTERED WITHIN EACH PANEL-TYP. SEE PLANS FOR ADDITIONAL INFO.



ATTIC ACCESS LADDER

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



MECHANICAL UNIT SCREEN WALL SECTION (SW)

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

LATHAN ▪ McKEE ARCHITECTS

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ANDALUSIA CITY BOARD OF EDUCATION
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STATE OF ALABAMA
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No. 1082
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PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304

SHEET NO:

A9.3

0 1" 2"

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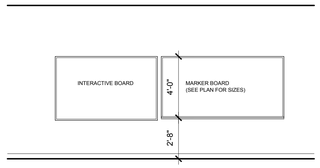
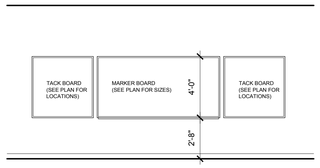
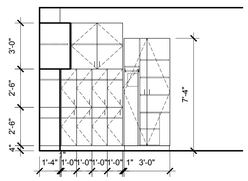


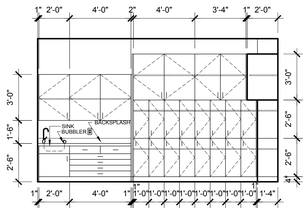
A INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
CLASSROOMS



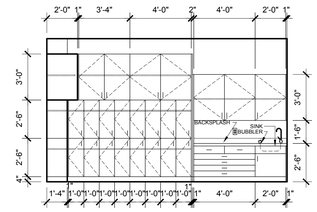
B INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
CLASSROOMS



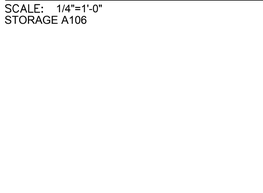
C PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS



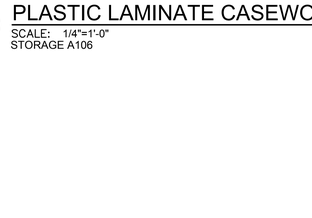
D PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS



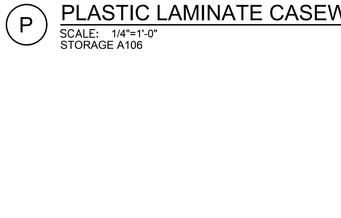
E PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS



F PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS



G PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS



H PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
CLASSROOMS

I PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
NURSE A128

J PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
STORAGE A126

K PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
WORKROOM A129

L PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
RECEPTION A103

M PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
RECEPTION A103

1 VIEW WINDOW DETAIL
SCALE: 1/4"=1'-0"
RECEPTION A103

N PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
STORAGE A106

O PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
STORAGE A106

P PLASTIC LAMINATE CASEWORK
SCALE: 1/4"=1'-0"
STORAGE A106

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: PLASTIC LAMINATE CASEWORK

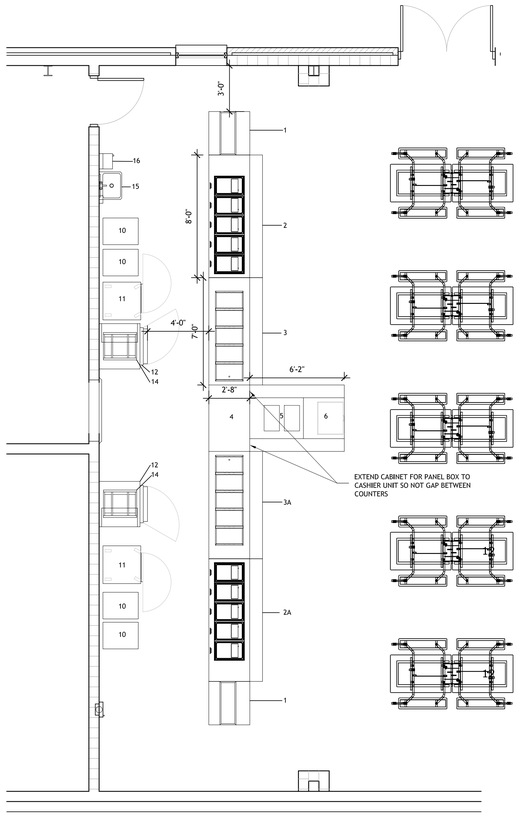
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: -
DRAWN: KDD
DATE: 01.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO:
A10.1

0 1" 2"

GENERAL COORDINATION NOTE:
Utility sizes, connections and locations are based on the Food Service Drawings and Specified Equipment in Section 11 40 00. Alternates are listed, BUT it is the responsibility of the Food Service Contractor to compare utilities between the manufacturer, prime specification and alternates listed. If alternate equipment is submitted for approval to the Architect by the awarded bidder and is different that the prime specification and has different utility requirements; it is the General Contractor and Food Service Contractor's responsibility for these changes and/or costs. There will not be ANY change orders approved after the bid for substitutions and/or cost associated with substitutions. This is a non-negotiable statement.



1 FS100 FOOD SERVICE EQUIPMENT EQUIPMENT PLAN
1/4" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	REMARKS
1	2	DUAL SIDED MILK COOLER	FSC (FOOD SERVICE CONTRACTOR)
2/2A	2	WATERLESS HOT FOOD WELLS	FSC
3/3A	2	COLD FOOD WELLS	FSC
4	1	FLAT TOP WITH PANEL BOX	FSC
5	1	FLAT TOP FOR CONDIMENTS	FSC
6	1	CASHIER STAND	FSC
7	-	SPARE NUMBER	-
8	-	SPARE NUMBER	-
9	-	SPARE NUMBER	-
10	4	MOBILE STORAGE CABINET	FSC
11	3	MOBILE HEATED HOLDING CABINET (2 SHOWN ON PLANS)	FSC
12	2	ROLL IN REFRIGERATOR	FSC
13	-	SPARE NUMBER	-
14	4	ROLL IN REFRIGERATOR RACKS (2 SHOWN ON PLANS)	FSC
15	1	HAND SINK	NOT IN CONTRACT (NIC) BY OTHER TRADES
16	1	HAND DRYER	NIC BY OTHER TRADES
17	-	SPARE NUMBER	-
18	-	SPARE NUMBER	-
19	-	SPARE NUMBER	-
20	-	SPARE NUMBER	-

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

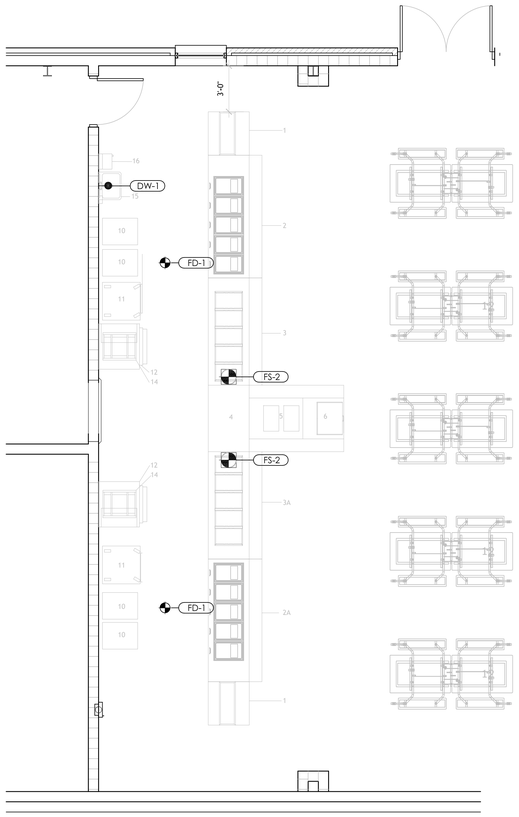
SHEET TITLE:
FOOD SERVICE EQUIPMENT LAYOUT

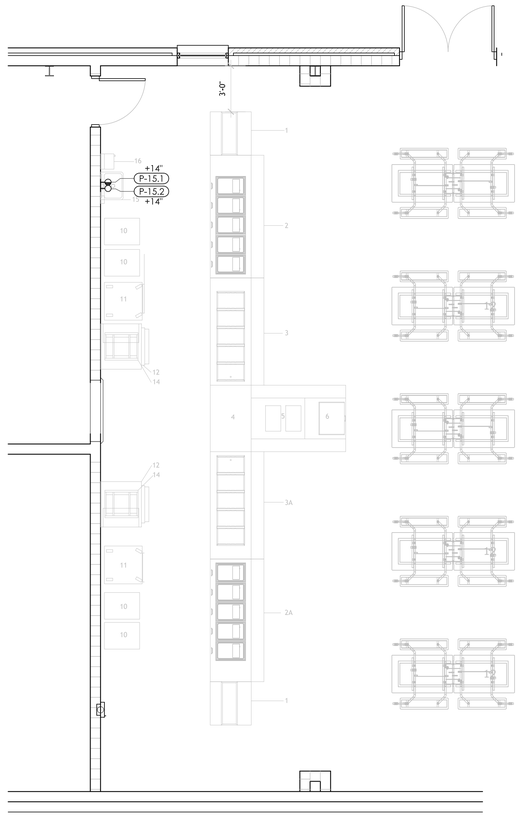
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: –
DRAWN: ---
DATE: 1.14.2026
REVISIONS

JOB NO. 24-304
SHEET NO: FS-100

0 1" 2"





WASTE SYMBOLS

- . . . . . FS-1 = FLOOR SINK, 8" X 8" SQUARE, WITH FULL TOP GRATE
- . . . . . FS-2 = FLOOR SINK, 8" X 8" SQUARE, WITH HALF GRATE
- . . . . . FS-3 = FLOOR SINK, 8" X 8" SQUARE, 10" DEEP, WITH HALF GRATE
- . . . . . FS-4 = FLOOR SINK, 8" X 8" SQUARE, 10" DEEP, NO GRATE
- . . . . . FD-1 = FLOOR DRAIN, WITH TYPE "A" STRAINER 5" TOP'
- . . . . . FT-1 = FLOOR TROUGH DRAIN W/4" TRAPPED CONNECTION INTO BOTTOM OUTLET. PROVIDE FLOOR RECESS TO ACCOMMODATE FLOOR TROUGH SIZE
- . . . . . DW-1 = DIRECT WASTE, 1 1/2"
- . . . . . IDW-1 = IN DIRECT WASTE, 1 1/2"
- FIELD CONNECTIONS

FLOOR WASTE AND SPECIAL CONDITIONS NOTES

1. ALL DRAINS DEDICATED FOR EQUIPMENT, INCLUDING FLOOR TROUGHS, MUST BE FLUSH WITH PLANE OF SURROUNDING FLOOR.
2. GENERAL PURPOSE FLOOR DRAINS, INCLUDING FLOOR SINKS, IN AREAS OF HIGH TRAFFIC MUST BE FLUSH WITH PLANE OF SURROUNDING FLOOR.
3. GENERAL PURPOSE FLOOR DRAINS, INCLUDING FLOOR SINKS, LOCATIONS MUST BE VERIFIED BY MECHANICAL CONTRACTOR/ ENGINEER FOR ALL CODE REQUIREMENTS.

PLUMBING SYMBOLS

- HW–HOT WATER
- CW–COLD WATER
- G — GAS – (NATURAL)
- ROUGH–IN FROM WALL
- FIELD CONNECTIONS
- B.T.U. BRITISH THERMAL UNIT
- B.T.C. BRANCH TO CONNECTION
- D.F.A. DOWN FROM ABOVE
- A.F.F. ABOVE FINISHED FLOOR

PLUMBING NOTES

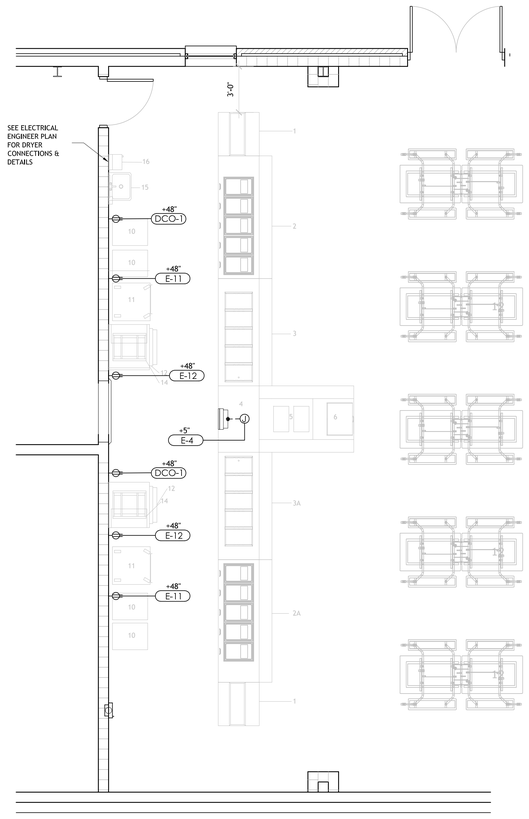
1. PLUMBING CONTRACTOR SHALL ROUGH–IN AND MAKE FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS.
2. PLUMBING CONTRACTOR SHALL FURNISH ALL INDIRECT WASTE PIPING, SHUT–OFF VALVES (WATER AND GAS), PRESSURE REDUCING VALVES, WATER HAMMER ARRESTORS, ETC., AS REQUIRED TO MAKE EACH PIECE OF EQUIPMENT FULLY OPERATIONAL.
3. REFER TO FOOD SERVICE EQUIPMENT SUPPLIER'S DRAWINGS FOR ALL EQUIPMENT IDENTIFICATION.
4. DO NOT RUN PLUMBING, ROOF DRAINS OR H.V.A.C. DUCT WORK ABOVE WALK–IN COOLER/FREEZER AREA.
5. EXPOSED PIPING AT HOSE REEL TO BE CHROME PLATED. EXPOSED PIPING AND VACUUM BREAKER TO BE SUPPLIED BY F.S.E.C. AND DELIVERED TO PLUMBING CONTRACTOR FOR INSTALLATION.
6. PLUMBING CONTRACTOR TO INSTALL BACKFLOW PREVENTERS (SUPPLIED BY F.S.E.C.) IN WATER LINES TO 47–COMBI OVEN AND 49–STEAMER, AND AT ALL LOCATIONS IF REQUIRED BY LOCAL AND STATE CODES.
7. F.S.E.C. TO PROVIDE AND PLUMBING CONTRACTOR TO INSTALL APPROVED VACUUM BREAKERS, WATER SUPPLY GATE TYPE VALVES, LINE PRESSURE REGULATORS, AND HYDRAULIC SHOCK ARRESTORS FOR ITEM 80 DISHMACHINE.
8. DISPOSER DRAIN LINES ARE TO BE SUPPLIED WITH ADEQUATE CLEAN OUT FITTINGS.
9. SEE LOCATION OF WATER FILTER FOR WATER & ICE DISPENSERS UNDER COUNTER BTC. TO ITEM 74 PER CODE
10. PLUMBING CONTRACTOR SHALL FLUSH ALL LINES FREE OF FOREIGN MATTER BEFORE CONNECTING FIXTURES.
11. GENERAL CONTRACTOR TO CUT OR PROVIDE ANY HOLES THROUGH CEILINGS, ROOFS AND WALLS FOR DUCTS, CONDUITS, REFRIGERATION LINE ACCESS, ETC. IN ACCORDANCE WITH LOCAL FIRE AND BUILDING CODES AND IN ACCORDANCE WITH DUCT SIZES SPECIFIED.
12. SEE PAGE FS–700 & FS–701 FOR ITEM 32 SHOP DRAWINGS AND DETAILS ABOUT THE GAS LOOPED SYSTEM FOR UDS

NOTE:

ALL VACUUM BREAKERS AND CHECK VALVES SHALL BE INSTALLED SUCH THAT THEY CAN BE VISUALLY INSPECTED BY LOCAL HEALTH DEPARTMENT REPRESENTATIVE.

PLUMBING SCHEDULE

ITEM	QTY	DESCRIPTION	TAG NO.	WATER C.W.	WATER H.W.	NATURAL GAS CONN.	NATURAL GAS B.T.U.	REMARKS
						7"–10" W.C.		
15	1	HAND SINK	P–15.1	1/2"				B.T.C. ON SINK FAUCET
			P–15.2		1/2"			B.T.C. ON SINK FAUCET



ELECTRICAL NOTES

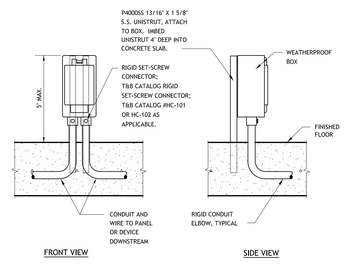
1. EXHAUST FAN FOR DISH MACHINE TO BE WIRED TO DISH MACHINE CONTROL PANEL.
2. ~~PROVIDE CONDUIT UNDER SLAB BETWEEN KITCHEN OFFICE AND CASHIER UNIT(S) FOR COMPUTER INTERFACE. PROVIDE CONDUIT UNDER SLAB BETWEEN CASHIER UNIT(S) FOR SAME. 3/4" CONDUIT MINIMUM.~~
3. WALK–IN COOLER AND FREEZER: RUN ELECTRICAL CONDUIT FOR LIGHT FIXTURES ON INSIDE OF WALK–IN BOXES. USE CONDUIT SEAL–OFFS TO PREVENT HEAT TRANSFER WHERE CONDUIT PENETRATES BOX, TYP.
4. ENERGIZE 208 /1 HEAT TAPE FROM FREEZER EVAPORATORS FOR FREEZER DRAIN LINES.
5. ELECTRICAL CONTRACTOR TO PROVIDE WATERPROOF BOXES FOR FLOOR MOUNTED RECEPTACLES IN SERVERY. BOXES TO BE NO HIGHER THAN 5" AFF TO CLEAR SERVING EQUIPMENT.

ELECTRICAL SCHEDULE

ITEM NO.	QTY	DESCRIPTION	TAG NO.	VOLTS	PHASE	H.P.	K.W.	AMPS	CONNECTION TYPE	REMARKS
4	1	PANEL BOX CABINET FOR SERVING LINES	E–4	120/208	3			43.24	J–BOX	PANEL BOX TOTAL LOAD IS 120/208V/1PH 125 AMP. BRANCH TO CONNECT TO PANEL BOX
11	2	MOBILE HEATED HOLDING CABINET	E–11	120	1			18	NEMA 5–20P	
12	2	ROLL IN REFRIGERATOR	E–12	120	1			10.6	NEMA 5–15P	
15	1	HAND DRYER	E–15	120	1			–	TBD	TO BE DETERMINED BY OTHER TRADES

B.T.C. = BRANCH TO CONNECTION

ELECT. RECPT. DETAIL TYPICAL



ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE, GROUND TYPE,
- SINGLE RECEPTACLE, GROUND TYPE,
- SIMPLEX RECEPTACLE, GROUND TYPE,
- DISCONNECT SWITCH
- RECESSED DISCONNECT SWITCH
- ROUGH–IN FROM WALL
- SPECIAL PURPOSE OUTLET, AS INDICATED, GROUND TYPE,
- CONDUIT STUB–OUT IN FLOOR FOR DIRECT CONNECTION
- COMPUTER/DATA LINE
- DUPLEX RECEPTACLE MTD. ON DROP CORD FROM CEILING
- SINGLE RECEPTACLE MTD. ON DROP CORD FROM CEILING
- FIELD WIRING TO CONNECTION POINT ON EQUIPMENT
- FIELD WIRING TO CONNECTION POINT ON EQUIPMENT
- V VOLTAGE
- H.P. HORSEPOWER
- K.W. KILOWATT
- D.F.A. DOWN FROM ABOVE
- B.T.C. BRANCH TO CONNECTION
- A.F.F. ABOVE FINISHED FLOOR
- D.C.O. DUPLEX CONVENIENCE OUTLET

1 FS200 FOOD SERVICE EQUIPMENT UTILITIES 1/4" = 1'-0"

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
FOOD SERVICE EQUIPMENT UTILITIES

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

PROJ. MGR.: –
DRAWN: ---
DATE: 1.14.2029
REVISIONS

JOB NO. 24-304
SHEET NO: FS-200

0 1" 2"

SPRINKLER SYSTEMS SCHEDULE

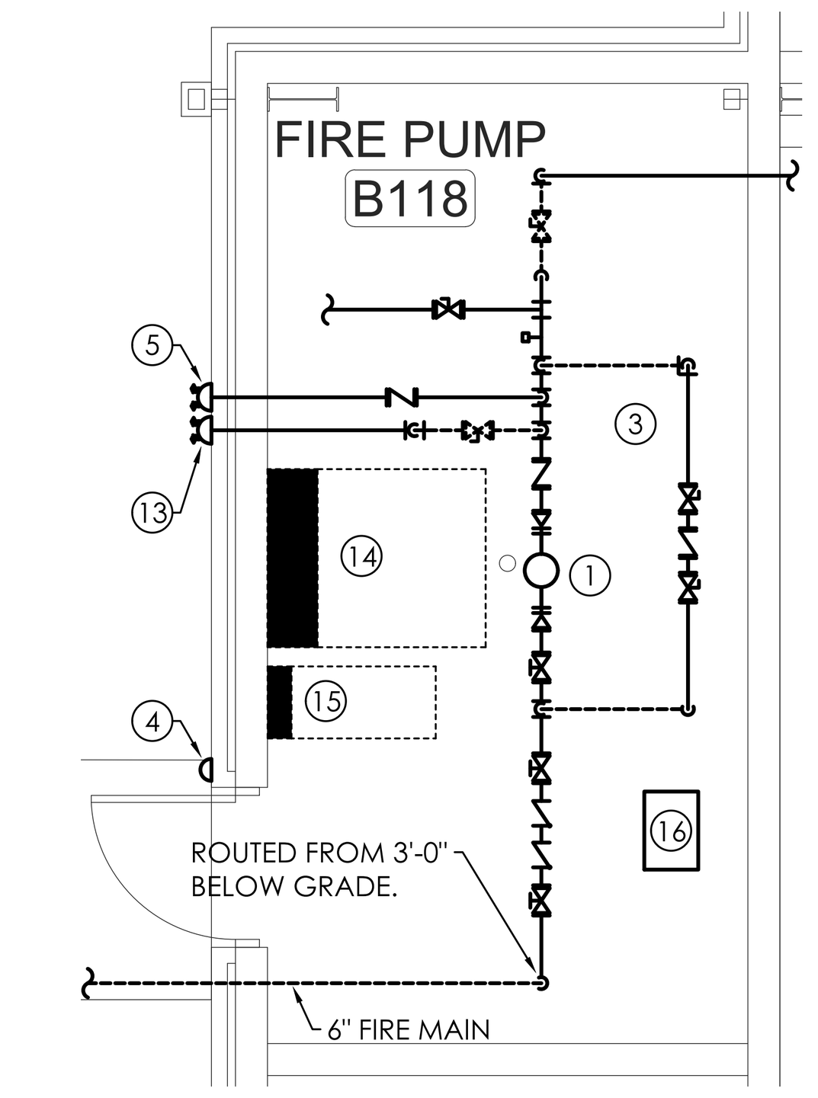
ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM / SF	CALCULATED AREA / SF	GPM HOSE ALLOWANCE
OFFICE, TOILETS, CORRIDOR, LOBBY, CLASSROOMS, GYM	WET PIPE	LIGHT HAZARD	.10	1500	100
STORAGE, BUILDING SERVICES	WET PIPE	ORDINARY - 1	.15	1500	250

NOTES:

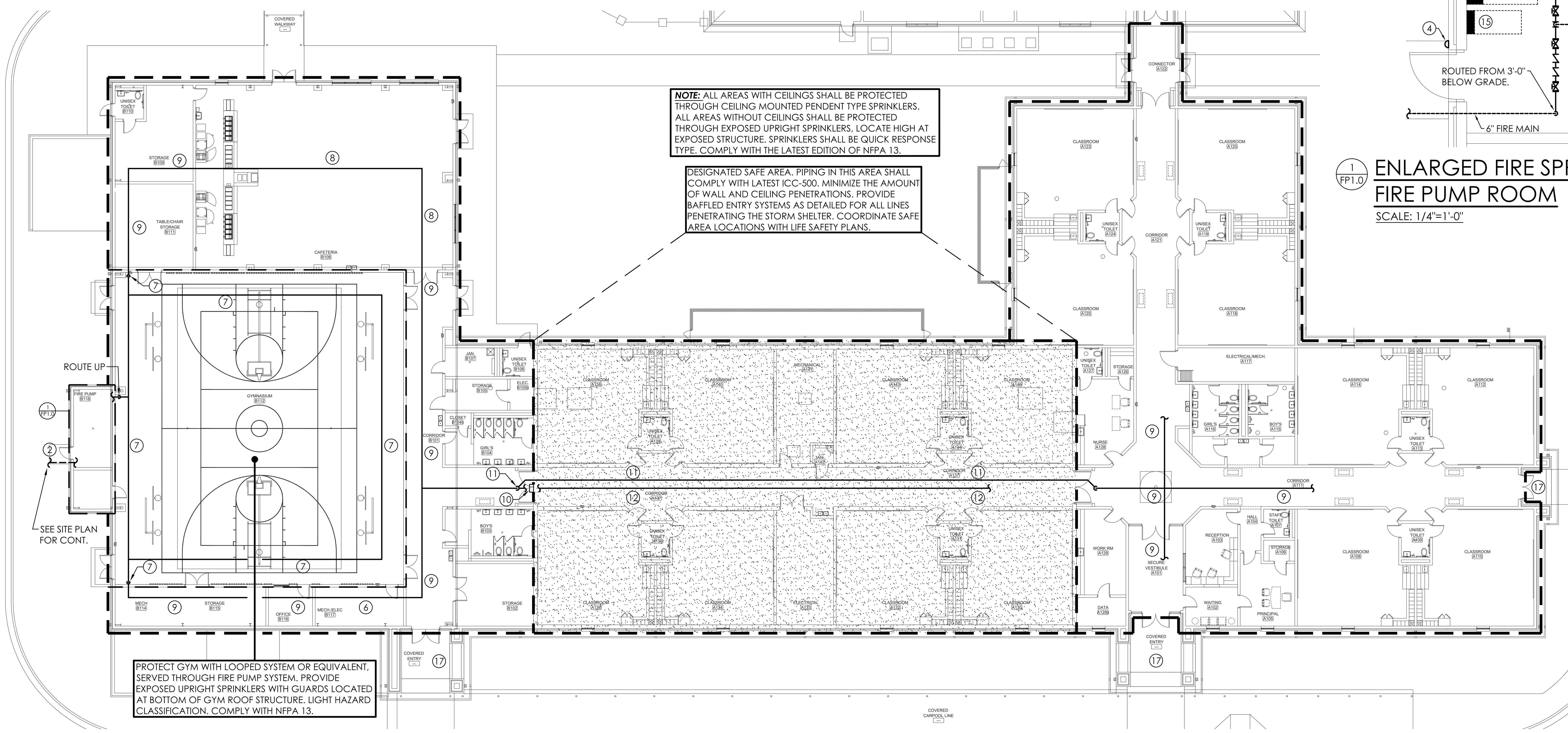
1. SPRINKLER COVERAGE SHALL BE PROVIDED THROUGHOUT ALL AREAS OF THE BUILDING.
2. ALL SPRINKLERS AND DISTRIBUTION PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES AS APPROPRIATE.
3. SIZES, NOT SHOWN, SHALL BE PER SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
4. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, IN WALLS, AND/OR IN PIPE CHASES UNLESS NOTED OTHERWISE. EXPOSED PIPING SHALL BE PERMITTED ONLY IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND AREAS WITHOUT SUSPENDED CEILINGS.
5. PROVIDE CONCEALED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH HARD CEILINGS.
6. PROVIDE RECESSED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH SUSPENDED CEILINGS.
7. PROVIDE EXPOSED, QUICK RESPONSE, UPRIGHT SPRINKLERS AT ALL AREAS WITHOUT FINISHED CEILINGS.
8. SPRINKLERS SHALL BE FACTORY COLORED OFF-WHITE. ESCUTCHEONS SHALL MATCH SPRINKLERS. SUBMIT COLOR CHARTS TO ARCHITECT FOR APPROVAL PRIOR TO PLACING ORDER.
9. FIRE SPRINKLERS SHALL BE LOCATED IN A SYMMETRICAL PATTERN RELATIVE TO THE CEILINGS AND TO ALL OTHER ITEMS LOCATED IN THE CEILINGS. SPRINKLERS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILES. THE SPRINKLER CONTRACTOR SHALL PROVIDE ANY AND ALL EXTRA SPRINKLERS TO MEET THIS REQUIREMENT. COORDINATE WITH ALL DISCIPLINES.
10. SPRINKLERS SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED USING LISTED GUARDS.

CIVIL COORDINATION

SEE SITE UTILITIES DRAWING FOR THE LOCATION OF THE FIRE WATER SERVICE, POST INDICATOR VALVE, BACKFLOW PREVENTER, AND FIRE HYDRANTS. PROVIDE WATERPROOF SUPERVISORY SWITCHES (TAMPER SWITCHES) ON THE TWO ISOLATION VALVES AT THE BACKFLOW PREVENTER AND POST INDICATOR VALVE. TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. COORDINATE WITH THE SITE UTILITIES CONTRACTOR, ELECTRICAL CONTRACTOR, WATER AUTHORITY HAVING JURISDICTION, AND THE FIRE DEPARTMENT HAVING JURISDICTION.



ENLARGED FIRE SPRINKLER PLAN
FIRE PUMP ROOM
SCALE: 1/4"=1'-0"



FIRE SPRINKLER PLAN - FIRST FLOOR
SCALE: 1/16"=1'-0"

GENERAL NOTES:

1. FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL.
2. THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
3. FIRE PROTECTION SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25. A COPY OF THE LATEST EDITION OF NFPA 25 SHALL BE INCLUDED AS PART OF THE OPERATION AND MAINTENANCE DOCUMENTS PROVIDED TO THE OWNER.
4. MAINTAIN ACCURATE AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND DELIVER REQUIRED COPIES TO THE OWNER AS PART OF CLOSE OUT DOCUMENTS.
5. THESE DRAWINGS ARE FOR ENGINEERING INTENT ONLY. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE FINAL DESIGN / INSTALLATION DOCUMENTS, AND HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS, AND THE FIRE SPRINKLER SHOP DRAWINGS, MUST BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE OF ALABAMA, AND MUST BEAR HIS/HER LICENSURE SEAL, WITH SIGNATURE AND DATE, WHEN SUBMITTED FOR REVIEW.
6. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A "STATEMENT OF COMPLIANCE" TO THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, AS PER SECTION 901.2.1 IN THE INTERNATIONAL FIRE CODE, 2021 EDITION.
7. AREAS ABOVE CEILINGS SHALL BE NON-COMBUSTIBLE AND SHALL NOT BE USED FOR STORAGE. FIRE SPRINKLER PROTECTION IS NOT REQUIRED.
8. AREAS EXPOSED TO FREEZING TEMPERATURES REQUIRING SPRINKLER PROTECTION SHALL BE PROTECTED BY DRY BARREL SPRINKLERS OR A DRY PIPE SYSTEM IN LIEU OF STANDARD WET SYSTEM SPRINKLERS.

INSPECTION AND TEST REQUREMENTS BY LOCAL FIRE DEPARTMENT:

1. A PIPE INSPECTION OF ALL PIPES SHALL BE COMPLETED BY THE LOCAL FIRE DEPARTMENT BEFORE ANY PIPE IS INSTALLED.
2. INSTALLATION INSPECTION: THE INSTALLATION OF ALL SPRINKLER PIPING, HANGARS, HEADS, AND RISERS, SHALL BE INSPECTED BY THE LOCAL FIRE DEPARTMENT BEFORE BEING COVERED.
3. A FUNCTIONAL TEST SHALL BE ACCOMPLISHED BY THE LOCAL FIRE DEPARTMENT, BY HAVING AN ENGINE COMPANY PUMP TO THE SYSTEM, AT 150 PSI, WITH WATER FLOWING OUT OF A TEST DRAIN OR OTHER ACCEPTABLE POINT. THIS CAN BE DONE AS PART OF THE "ACCEPTANCE TEST", WITH PROPER NOTICE.
4. A FINAL ACCEPTANCE TEST, OF ALL NEWLY INSTALLED FIRE SPRINKLER SYSTEMS, AND/OR WHERE PLANS WERE REQUIRED TO BE SUBMITTED, SHALL BE ACCOMPLISHED.
5. A COMPLETED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING" SHALL BE PROVIDED TO OWNER.
6. A COMPLETED COPE OF THE "LOCAL FIRE DEPARTMENT FUNCTIONAL TEST" SHALL BE PROVIDED AT THE SYSTEM ACCEPTANCE.

NOTE: NON-COMBUSTIBLE ATTIC SPACE. SPRINKLER SYSTEM COVERAGE IS NOT REQUIRED.

LEGEND

F	–	NEW FIRE SPRINKLER PIPING
W	–	UG FIRE WATER SERVICE
(symbol)	–	WET PIPE SYSTEM CONTROL RISER
(symbol)	–	SHUT OFF VALVE
(symbol)	–	CHECK VALVE
(symbol)	–	SPRINKLER SYSTEM ZONE BOUNDARY
(#)	–	NOTE LEGEND NUMBER
FDC	–	FIRE DEPARTMENT CONNECTION
AHJ	–	AUTHORITY HAVING JURISDICTION
IBC	–	INTERNATIONAL BUILDING CODE
IFC	–	INTERNATIONAL FIRE CODE
NFPA	–	NATIONAL FIRE PROTECTION ASSOC.
DIP	–	DUCTILE IRON PIPE
MJ	–	MECHANICAL JOINT
UG	–	UNDERGROUND
GPM	–	GALLONS PER MINUTE
PSI	–	POUNDS PER SQUARE INCH
SF	–	SQUARE FEET
U.L.	–	UNDERWRITERS LABORATORY
FS	–	FLOW SWITCH
T	–	TAMPER SWITCH

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. FIRE PUMP ASSEMBLY SERVING BUILDING FROM 0'-6" UNDERGROUND SERVICE. SEE DETAIL.
2. SPRINKLER CONTRACTOR SHALL MAKE CONNECTION TO THE NEW UNDERGROUND FIRE SERVICE AT APPROXIMATELY 5'-0" OUTSIDE THE BUILDING FOOTPRINT. COORDINATE WITH SITE UTILITIES CONTRACTOR. VERIFY THAT REQUIRED FLUSHING AND TESTING OF FIRE SERVICE HAS BEEN COMPLETED PRIOR TO CONNECTION.
3. TEMPERATURE IN THIS AREA MUST BE MAINTAINED AT A MINIMUM OF 40° F. SUPPLEMENTAL HEAT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
4. LOCAL ELECTRIC HORN AND STROBE ALARM MOUNTED ON EXTERIOR WALL, OUTSIDE THE FIRE PUMP ROOM DOOR. ALARM SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR. POWER AND FIRE ALARM CONNECTIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR EXACT LOCATION.
5. PROVIDE A FIRE DEPARTMENT CONNECTION, MOUNTED ON THE EXTERIOR WALL. THE INSTALLATION SHALL INCLUDE AN AUTOMATIC BALL DRIP WITH DRAIN PIPED TO EXTERIOR AND SPILLED ON GRADE. PROVIDE FACTORY FURNISHED CAP AND CHAIN ON EACH CONNECTION. COORDINATE WITH THE LOCAL FIRE DEPARTMENT FOR THE EXACT LOCATION OF FDC AND CONNECTION REQUIREMENTS.
6. EXPOSED WET SYSTEM MAIN SERVING AREA WITH EXPOSED STRUCTURE USING UPRIGHT SPRINKLERS.
7. WET SYSTEM MAIN ROUTED HIGH AT EXPOSED STRUCTURE TO SERVE GYMNASIUM.
8. EXPOSED CEILINGS WITH CLOUDS SHALL BE SPRINKLED BOTH ABOVE AND BELOW CLOUDS. SEE DETAIL.
9. WET SYSTEM MAIN PIPING ROUTED LOW ABOVE CEILING TO SERVE CEILING AREAS.
10. FIRE SPRINKLER PIPING SHALL PENETRATE THE STORM SHELTER STRUCTURE ONLY AT PIPE ENTRIES. PENETRATION SHALL BE COVERED AND PROTECTED BY A SHEET METAL ASSEMBLY IN COMPLIANCE WITH THE LATEST EDITION OF "ICC500."
11. WET SYSTEM MAIN PIPING ROUTED UP ABOVE STORM SHELTER.
12. SPRINKLER MAIN SERVING THE STORM SHELTER. ROUTE PIPING ABOVE THE CEILING AND BELOW THE CONCRETE CAP OF THE STORM SHELTER. SPRINKLER PIPING INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF "ICC500".
13. PROVIDE CHROME PLATED TEST HEADER, MOUNTED ON EXTERIOR WALL AND EASILY ACCESSIBLE. ("POTTER ROMER" OR EQUIVALENT.)
14. FIRE PUMP (FP-1) CONTROL PANEL. MAINTAIN REQUIRED CLEARANCE FOR CONTROL PANEL.
15. JOCKEY PUMP (JP-1) CONTROL PANEL. MAINTAIN REQUIRED CLEARANCE FOR CONTROL PANEL.
16. JOCKEY PUMP (TYP.) EXACT JOCKEY PUMP LOCATION AND MODEL SHALL BE DECIDED BY CONTRACTOR. COORDINATE WITH ELECTRICAL AND ALL REQUIRED CONTRACTORS. ROUTE AS REQUIRED.
17. DRY BARREL SPRINKLERS SHALL BE USED IN LOCATIONS THAT MAY REACH FREEZING TEMPERATURES. INSTALL AS REQUIRED IN LOCATIONS THAT MAY HOUSE STORAGE, COMBUSTIBLE MATERIAL, OR OTHERWISE REQUIRE SPRINKLER PROTECTION.

SPRINKLER SYSTEM NOTES

1. FIRE PROTECTION SYSTEM SHALL BE WET PIPE AS INDICATED ON THE DRAWING. BUILDING AND OVERHANGS SHALL BE SPRINKLED PER (MOST STRINGENT) 2022 NFPA-13, 2021 INTERNATIONAL BUILDING CODE (IBC), AND 2021 INTERNATIONAL FIRE CODE (IFC).
2. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH (MOST STRINGENT) 2022 NFPA-13, 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL FIRE CODE, STATE AND LOCAL CODES, THE LOCAL FIRE DEPARTMENT, AND THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER.
3. OCCUPANCY CLASSIFICATION SHALL BE PER 2022 NFPA-13.
4. SYSTEMS SHALL BE INTERFACED WITH BUILDING ALARM SYSTEM.
5. BUILDING SHALL BE SUPERVISED PER 2021 INTERNATIONAL BUILDING CODE, AND NFPA 71, 72, 73.
6. THE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL AN APPROVED, COMPLETE AND OPERATIONAL SPRINKLER SYSTEM. SYSTEM SHALL MEET ALL APPLICABLE CODES AND ORDINANCES. COORDINATE HEADS WITH LIGHTS, MECHANICAL EQUIPMENT, CEILING SYSTEMS, ETC.
7. LOCATION AND SPACING OF SPRINKLERS SHALL COMPLY WITH 2022 NFPA 13.
8. CUTTING OF STRUCTURAL AND / OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
9. ALL WET SYSTEM FIRE SPRINKLER PIPING SHALL BE INSTALLED WITHIN THE BUILDING INSULATION ENVELOPE. SPRINKLER CONTRACTOR SHALL PROVIDE OFFSETS IN PIPE ROUTING AS REQUIRED TO COMPLY WITH THIS REQUIREMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND DETAILS AND COORDINATE WITH GENERAL CONTRACTOR.
10. FIRE STOP ALL PENETRATIONS OF SMOKE / FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC.. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED STRUCTURES.
11. PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND IN CHASES.
12. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH 2022 NFPA-13.
13. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE COMPLY WITH 2022 NFPA-13.
14. TEMPERATURE RATINGS, OF FUSIBLE ELEMENTS, IN AUTOMATIC SPRINKLERS SHALL BE IN ACCORDANCE WITH 2022 NFPA-13.
15. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "U.L." AND "F.M.", (175 WORKING PRESSURE.)
16. ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED, UNLESS NOTED OTHERWISE. TYPE AND EXACT LOCATION OF FLOW, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES.
17. ALL REQUIRED TAMPER SWITCHES, AND FLOW SWITCHES, SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO A CONSTANTLY MONITORED LOCATION. ALL POWER WIRING, CONTROL WIRING, AND INTERLOCK WIRING, SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION.
18. PROVIDE A PERMANENTLY ATTACHED NAME TAG, STATING THE REQUIRED DESIGN CRITERIA, FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
19. SPRINKLERS SHALL COVER THE ENTIRE AREA OF EACH PROTECTED ROOM, INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS. PROVIDE EXTRA SPRINKLERS AS REQUIRED TO AVOID ANY OBSTRUCTION OF SPRINKLER COVERAGE.
20. ALL SPRINKLER HEADS MOUNTED IN CEILINGS SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALL, CEILING HEIGHT CHANGE, OR ANY OTHER VERTICAL INTERSECTING SURFACE.
21. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
22. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE / FILE STORAGE.
23. PROVIDE FLUSHING CONNECTIONS, TEST CONNECTIONS, AND AUXILIARY DRAINS AS NEEDED FOR COMPLETE DRAINAGE AND TESTING.
24. PROVIDE SPRINKLERS ABOVE AND BELOW ANY OBSTRUCTION THAT IS 48" OR WIDER.
25. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL AND/OR DATA EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES.
26. ALL HYDROSTATIC TESTING AND / OR FLUSHING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH 2022 NFPA STANDARDS 13 AND THE LATEST EDITION OF NFPA 24, AND SHALL BE WITNESSED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY HAVING JURISDICTION.
27. PROVIDE ALL SIGNAGE AS REQUIRED BY (MOST STRINGENT) 2022 NFPA 13, 2021 IBC, 2021 IFC, THE OWNER'S REPRESENTATIVES, INSURANCE UNDERWRITERS, AND LOCAL FIRE DEPARTMENT HAVING JURISDICTION.
28. PROVIDE MAIN DRAINS AND AUXILIARY DRAINS AS REQUIRED FOR COMPLETE DRAINAGE OF THE ENTIRE SPRINKLER SYSTEM. ROUTE ALL DRAIN PIPING TO EXTERIOR AND SPILL ON GRADE AT OWNER APPROVED LOCATIONS.
29. ALL LIGHT HAZARD AREAS SHALL BE PROTECTED WITH A DENSITY OF .10 / 1500 SF PLUS A MINIMUM HOSE ALLOWANCE OF 100 GPM AS PER NFPA-13.
30. ALL ORDINARY-1 HAZARD AREAS SHALL BE PROTECTED WITH A DENSITY OF .15 / 1500 SF PLUS A MINIMUM HOSE ALLOWANCE OF 250 GPM AS PER NFPA-13.
31. PAINTING OF FIRE SPRINKLER PIPING IS NOT THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. IF EXPOSED SPRINKLER PIPING IS TO BE PAINTED BY GENERAL CONTRACTOR, ALL SPRINKLERS MUST BE COVERED AND PROTECTED FROM PAINT. ANY SPRINKLER SHOWING PAINT, OTHER THAN FACTORY FINISHES, SHALL BE REMOVED, DISCARDED, AND REPLACED WITH NEW SPRINKLER.
32. THE SPRINKLER CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED TO ROUTE SPRINKLER PIPING THROUGH THE STRUCTURE AND TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
33. PROVIDE DRIP PANS BELOW SPRINKLER PIPING IN ALL ELECTRICAL ROOMS. PROVIDE SHIELDS TO PREVENT WATER FROM SPRAYING ON ELECTRICAL EQUIPMENT. DRIP PANS AND SHIELDS SHALL BE NON-COMBUSTIBLE.

SCALE: 1/16" = 1'-0"
0 8' 16' 32'

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PROJECT NO: 25-148

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:

PROJ. MGR.:
DRAWN: J.P.M.
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
FP1.0

FIRE SPRINKLER WATER DEMAND CALCULATION
GYMNASIUM
NFPA-13 (2022 EDITION) (LIGHT HAZARD / WET)

ESTIMATED PSI REQUIREMENT				ESTIMATED WATER FLOW DEMAND (GPM)			
END HEAD HYDRAULIC DEMAND:	225 SF X .10	=	22.5 GAL.	**DEMAND:** .10 (DENSITY) X 1.500 SF (REMOTE AREA)	=	150 GPM
END HEAD PRESSURE:	$(\frac{22.5}{5.6})^2$	=	16.1 PSI	**DEMAND PLUS 15% SAFETY:** 150 GPM X 1.15	=	172.5 GPM
IN BLDG ELEV. PRESSURE LOSS:	31' X .434	=	13.45 PS	**TOTAL HOSE ALLOWANCE:**	=	100 GPM
ON SITE ELEV. PRESSURE LOSS:		=	0.0 PSI		=	
PIPING LOSS:		=	10.0 PSI		=	
BACKFLOW LOSS:		=	6.0 PSI		=	
SAFETY FACTOR:		=	5.0 PSI		=	
MINUMUM PSI REQUIREMENT:		=	50.55 PSI	**TOTAL ESTIMATED DEMAND:**	=	272.5 GPM

WATER FLOW TEST #1

WATER FLOW TEST DATA

STATIC HYDRANT LOCATION: *HYDRANT 212*

FLOW HYDRANT LOCATION: *HYDRANT 216*

ESTIMATED STATIC: 48 PSI

ESTIMATED FLOW: 830 GPM

ESTIMATED RESIDUAL: 36 PSI

ESTIMATED FLOW AT 20 PSI: 1311 GPM

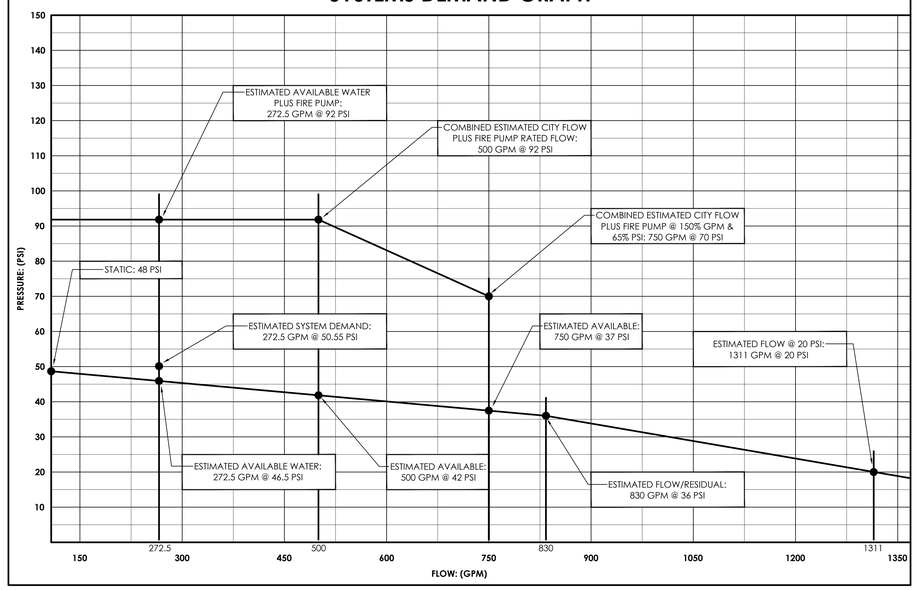
PITOT: 28.0 PSI

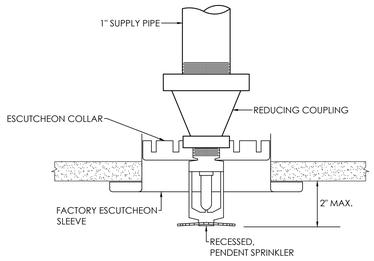
CONDUCTED BY: CITY OF ANDALUSIA FIRE DEPARTMENT, MESSICK, RUSSELL E.

DATE AND TIME TESTED: 11:34 AM, 2025-10-26

NOTE: FIRE SPRINKLER CONTRACTOR SHALL CONDUCT THEIR OWN HYDRANT FLOW TEST IN ORDER TO HAVE UP TO DATE DATA FOR USE IN HYDRAULIC CALCULATIONS.

SYSTEMS DEMAND GRAPH

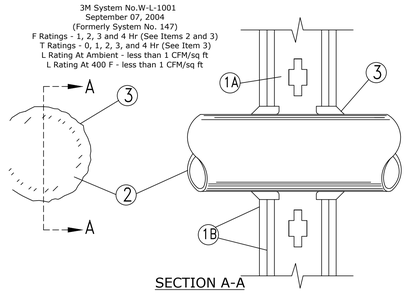




RECESSED SPRINKLER DETAIL

NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)

3M System No.W-L-1001
September 07, 2004
(Formerly System No. 147)
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Gypsum Board* - Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing
D. Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
TITEFLEX CORP, A BUNDY CO

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG INC

3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8- 1-1/4,1-7/8 and 2-1/2 in. thickness of caulk or sealant for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk or sealant applied to gypsum board/penetrant interface at point contact location on both sides of wall.
The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.
The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

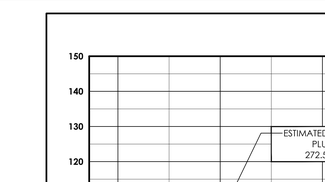
+When copper pipe is used, T Rating is 0 hr.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

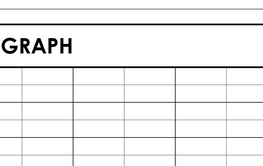
PIPE PENETRATION THRU RATED GYP. BOARD WALL DETAIL

NO SCALE



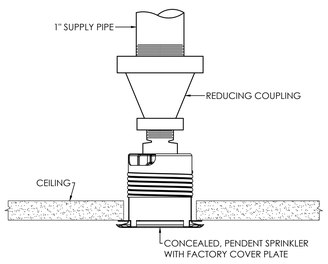
MID SPAN HANGER DETAIL

NO SCALE



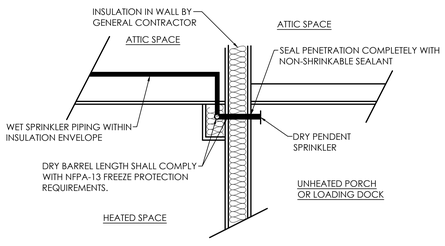
TOP BEAM HANGER DETAIL

NO SCALE



CONCEALED SPRINKLER DETAIL

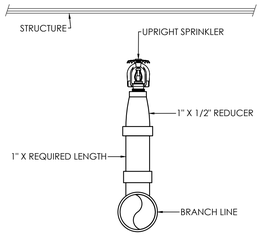
NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)



FREEZE PROTECTION DETAIL

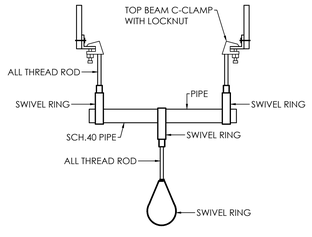
NO SCALE

NOTE: CONTRACTOR HAS THE OPTION TO INSTALL "VIC-FLEX" SIDEWALL SPRINKLERS WITH EXTENDED FLEXIBLE DRY BARRELS.



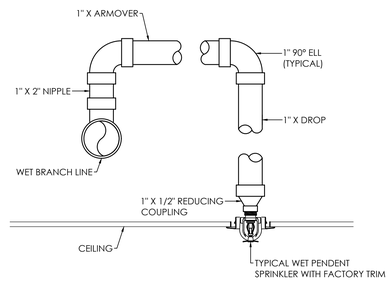
UPRIGHT SPRINKLER DETAIL

NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)



MID SPAN HANGER DETAIL

NO SCALE



RETURN BEND PIPING DETAIL

NO SCALE:

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 19984 JAMES H. MORRIS

PROJ. MGR.:
DRAWN: J.P.M.
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
FP2.0

0 1" 2"

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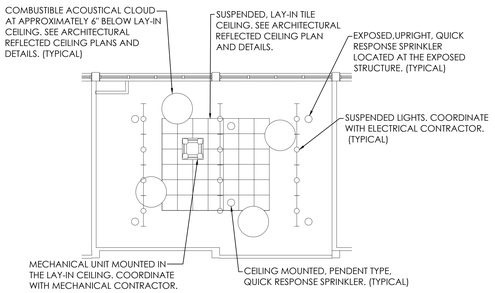


ACOUSTICAL CLOUD DETAIL

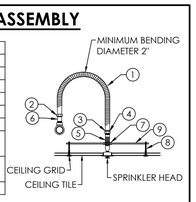
NO SCALE

NOTES: (THIS DETAIL ONLY)

1. SOME CLASSROOMS ARE LARGER THAN SHOWN IN THIS TYPICAL FLOOR PLAN AND SHALL REQUIRE ADDITIONAL SPRINKLERS AND PIPING TO PROVIDE FULL COVERAGE IN COMPLIANCE WITH NFPA-13.
2. ITEMS IN CLASSROOM CEILINGS MAY DIFFER IN NUMBER AND LOCATION FROM THOSE SHOWN IN THIS TYPICAL PLAN. COORDINATE WITH ALL DISCIPLINES. LOCATE AND SPACE SPRINKLERS AS REQUIRED TO AVOID CONFLICT AND PROVIDE FULL COVERAGE.

FLEXIBLE DROP ASSEMBLY

#	Part Name	Material	Q'ty	Spec.
1	Flexible Tube	ANSI 316L	1	0.3†
2	Nut	SS41	2	Zinc Plated
3	Isolation Ring	nylon66	2	
4	Gasket	N.B.R.	2	
5	Reducer	SPP	1	Zinc Plated
6	Nipple	SPP	1	Zinc Plated
7	Bracket-A (Rounded)	SS41	1	Zinc Plated
8	Bracket-B (Rectangular)	SS41	2	Zinc Plated
9	Square Bar	SS41	1	Zinc Plated



ARM OVER / HEAD CONNECTION

NO SCALE:

NOTE: TO BE USED ONLY IN CEILING APPLICATIONS. SPRINKLER CONTRACTOR HAS THE OPTION OF USING FLEXIBLE ARMOVERS IN LIEU OF RIGID PIPING.

VERTICAL INLINE FIRE PUMP SCHEDULE

SYMBOL	GPM	PSI	TDH	RPM	SIZE	MOTOR HP	MOTOR ELEC	MIN. EFF.	PUMP SERVICE	REMARKS
FP-1	500	50	116	3525	5 X 3	25	460/3/60	63 %	FIRE PROTECTION	1,2

NOTES:

1. BASED ON PATTERSON PUMP COMPANY 5 X 3 VERTICAL INLINE FIRE PUMP, UL / FM APPROVED, EQUAL BY PEERLESS, AURORA, OR ARMSTRONG. PROVIDE FIRE PUMP STARTER AND ALL REQUIRED ACCESSORIES FOR A COMPLETE SYSTEM. FIRE PUMP STARTING METHOD SHALL BE "SOFT START".
2. FIRE PUMP FP-1, CONTROLLER, AND ACCESSORIES, SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR, AND SHALL COMPLY WITH NFPA-20.
3. FIRE PUMP CONTROLLER SHALL INCLUDE A SERVICE ENTRANCE RATED, FACTORY MOUNTED, DISCONNECT. (200 AMP MINIMUM; 150 AMP FUSE MINIMUM; 5 X FLA MINIMUM).

SEQUENCE OF OPERATION:

1. PRESSURE SWITCHES SHALL MEET NFPA-20 REQUIREMENTS.
2. JOCKEY PUMP SHALL MAINTAIN SYSTEM PRESSURE.
3. FIRE PUMP PRESSURE SWITCH SHALL BE AS REQUIRED BY NFPA-20. START POINT SHALL BE 10 PSI BELOW THE START POINT OF THE JOCKEY PUMP.
4. UPON AUTOMATIC STARTING, FIRE PUMP SHALL RUN UNTIL THE OFF-POINT HAS BEEN SATISFIED, AT WHICH TIME, THE MINIMUM RUN TIMER HAS EXPIRED, AFTER THE CODE REQUIRED 10 MINUTES.
5. AT THIS TIME, THE JOCKEY PUMP AND FIRE PUMP SHALL REMAIN IN AUTO MODE AND AWAIT THE NEXT CALL FOR RUN.

JOCKEY PUMP SCHEDULE

SYMBOL	GPM	PSI	RPM	MOTOR HP	MOTOR ELEC	PUMP SERVICE	REMARKS
JP-1	5	60	3450	.50	460/3/60	FIRE PROTECTION	1,2

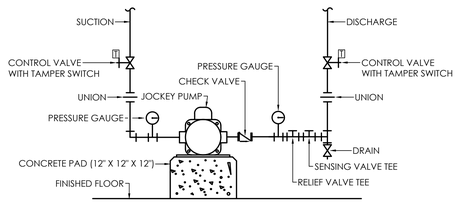
NOTES:

1. BASED ON PATTERSON PUMP COMPANY, MODEL "CR1-5123646-T", MULTISTAGE PUMP, EQUAL BY PEERLESS, AURORA, OR ARMSTRONG. PROVIDE JOCKEY PUMP CONTROLLER AND ALL REQUIRED ACCESSORIES FOR A COMPLETE SYSTEM.
2. JOCKEY PUMP JP-1, CONTROLLER, AND ACCESSORIES, SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR, AND SHALL COMPLY WITH NFPA 20.

FIRE PUMP PERFORMANCE:

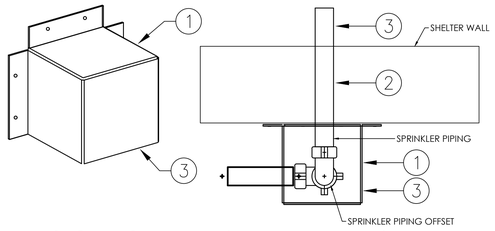
PUMP FACTORY RATING:
GPM: 500
PSI: 50

TESTED PERFORMANCE REQUIRED:
GPM: 500 X 1.50 (150%) = 750
PSI: 50 X .65 (65%) = 32.5



JOCKEY PUMP PIPING DETAIL

NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)

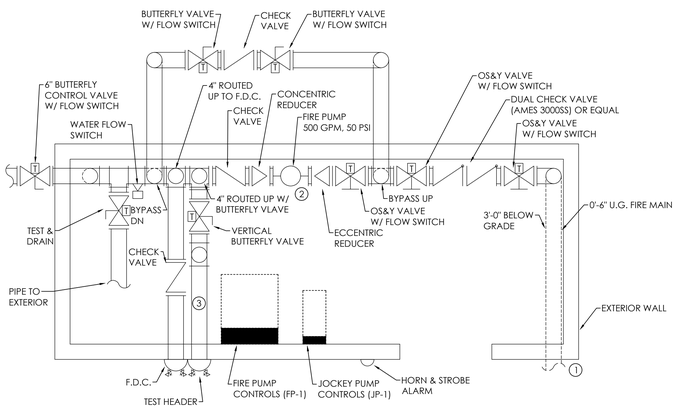


STORM SHELTER PIPE ENTRY DETAIL

NO SCALE (CONTROL VALVE RISER)

(#) NOTE LEGEND: (THIS DETAIL ONLY)

1. WELDED 3/16" STEEL BOX (BAFFLE) WITH 2 OPEN SIDES AND FLANGES FOR WALL MOUNTING. MINIMUM BOX DIMENSION: 12"X12"X12" WITH 3" WIDE MOUNTING FLANGES AND 5/8" MOUNTING HOLES. BAFFLE SHALL BE MOUNTED ON OUTSIDE OF SHELTER WALL OVER EACH PIPING PENETRATION. OFFSET PIPING THROUGH BOTTOM OR SIDE ONLY. DO NOT ARRANGE WITH BAFFLE OPENING ON TOP SIDE. ANCHOR BAFFLE TO WALL USING 1/2" ANCHORS.
2. FIRE SPRINKLER PIPING SHALL PENETRATE EACH STORM SHELTER STRUCTURE ONLY ONE TIME AND SHALL SERVE ONLY THE SPRINKLERS LOCATED WITHIN THE SHELTER.
3. WET PIPE FIRE SPRINKLER SYSTEM PROTECTING EACH STORM SHELTER SHALL COMPLY WITH THE 2020 EDITION "ICC 500" AND THE 2021 EDITION OF "IFC".

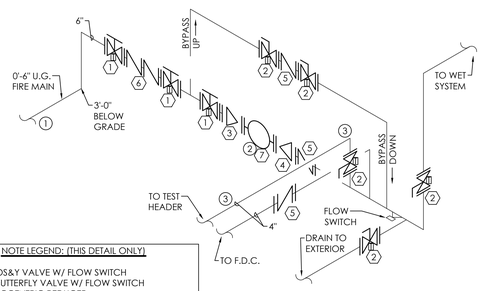


FIRE PUMP ASSEMBLY RISER DETAIL

NO SCALE

(#) NOTE LEGEND: (THIS DETAIL ONLY)

1. CONTRACTOR HAS THE OPTION TO PROVIDE STAINLESS STEEL EXTENDED 90° FITTING, EQUAL TO "AMES SERIES IBR" IN BUILDING RISER, IN ORDER TO AVOID PIPE JOINTS UNDER THE FOUNDATION. FITTING SHALL BE "FM" AND "UL" LISTED.
2. PUMP INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF "NFPA-20".
3. PIPING FOR CONNECTION TO WALL MOUNTED TEST HEADER TO BE USED DURING PUMP PERFORMANCE TESTING.



(#) NOTE LEGEND: (THIS DETAIL ONLY)

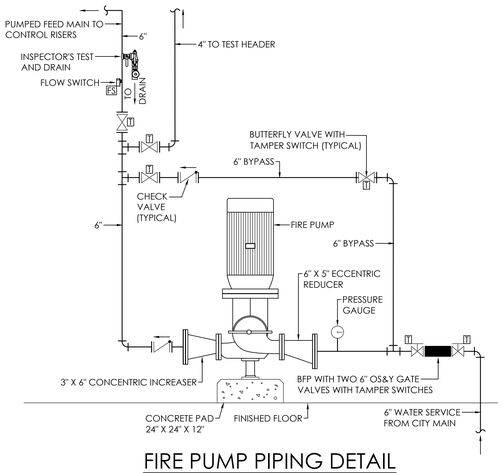
1. OS&Y VALVE W/ FLOW SWITCH
2. BUTTERFLY VALVE W/ FLOW SWITCH
3. ECCENTRIC REDUCER
4. CONCENTRIC REDUCER
5. CHECK VALVE
6. DUAL CHECK VALVE (AMES 3000SS) OR EQUAL.
7. FIRE PUMP 500 GPM, 50 PSI

FIRE PUMP ASSEMBLY RISER DETAIL

NO SCALE

(#) NOTE LEGEND: (THIS DETAIL ONLY)

1. CONTRACTOR HAS THE OPTION TO PROVIDE STAINLESS STEEL EXTENDED 90° FITTING, EQUAL TO "AMES SERIES IBR" IN BUILDING RISER, IN ORDER TO AVOID PIPE JOINTS UNDER THE FOUNDATION. FITTING SHALL BE "FM" AND "UL" LISTED.
2. PUMP INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF "NFPA-20".
3. PIPING FOR CONNECTION TO WALL MOUNTED TEST HEADER TO BE USED DURING PUMP PERFORMANCE TESTING.



FIRE PUMP PIPING DETAIL

NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)

(#) NOTE LEGEND: (THIS DETAIL ONLY)

1. PUMP INSTALLATION SHALL COMPLY WITH LATEST NFPA 20.

MORRIS DAVIS ENGINEERING LLC
903 SOUTH PERRY STREET
MONTGOMERY, AL 36104
T. (334) 269-0329
www.Jmorriseng.com

PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:

ALABAMA LICENSED PROFESSIONAL ENGINEER
JAMES H. MORRIS
No. 16984
PROFESSIONAL
1/14/2026
REGISTERED ENGINEERING

PROJ. MGR.:
DRAWN: J.P.M.
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO.
FP2.1

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

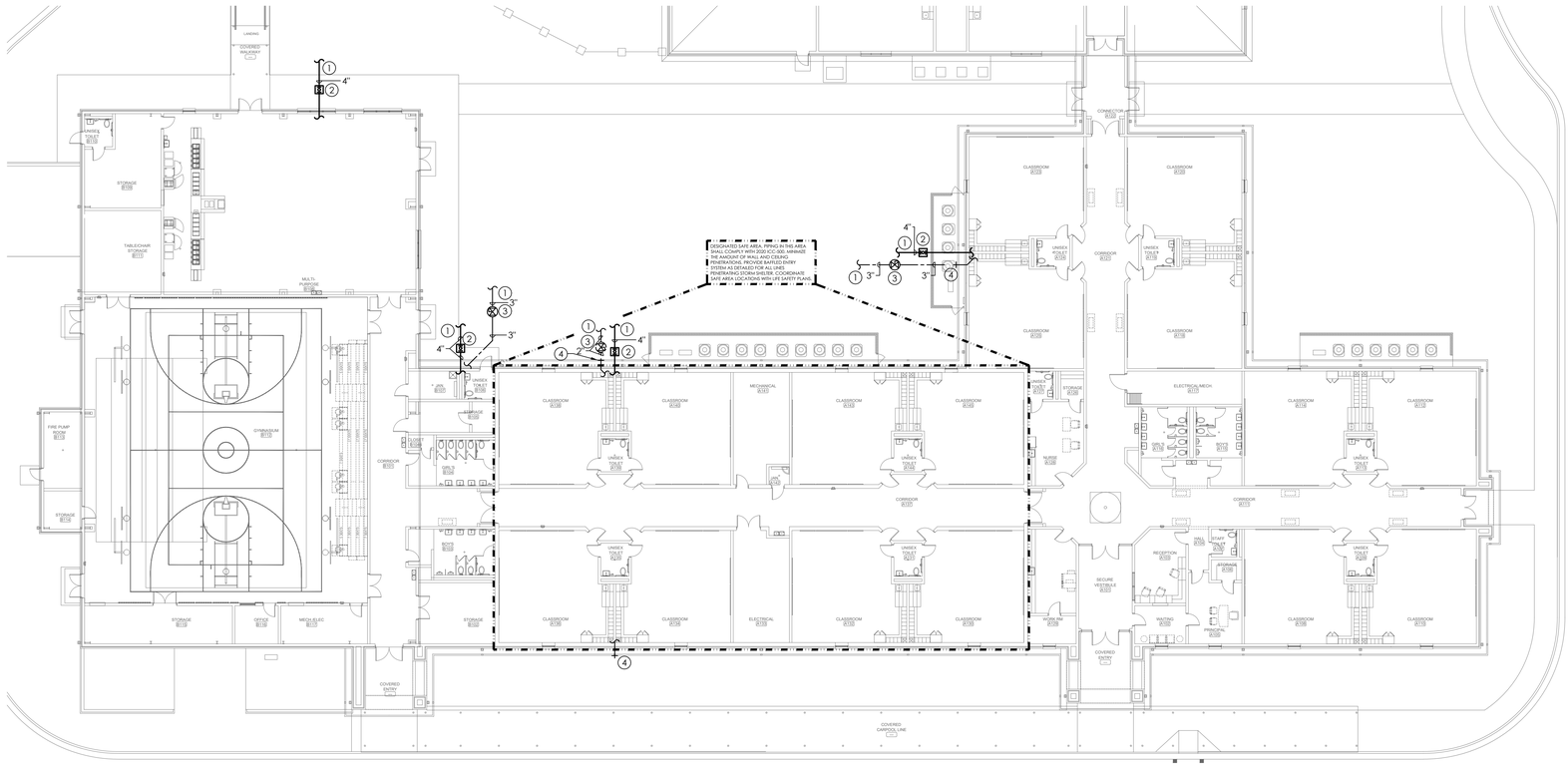
VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. SITE UTILITY PLAN FOR CONTINUATION.
2. C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
3. BALL VALVE IN 24"X24"X6" CONC. VALVE BOX.
4. WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.



PLUMBING OVERALL PIPING PLAN

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

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

0 8' 16' 32'

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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING OVERALL PIPING PLAN

ALABAMA
No. 19984
PROFESSIONAL
ENGINEER
JAMES H. MORRIS

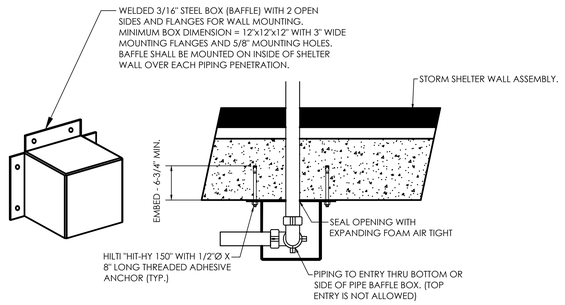
PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

P0.1

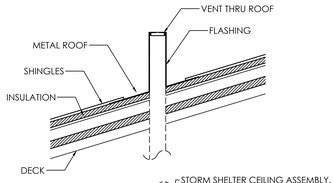
0 1" 2"

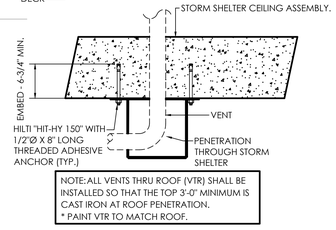


NOTE:
ALL WELDS SHALL BE GROUND SMOOTH AND COMPLETE STEEL BAFFLE BOX SHALL BE PRIMED AND PAINTED WITH TWO COATS OF ENAMEL PAINT TO MATCH SURROUNDING WALLS.

TYPICAL STORM SHELTER PIPE ENTRY/ EXIT DETAIL

NO SCALE





NOTE: ALL VENTS THRU ROOF (VTR) SHALL BE INSTALLED SO THAT THE TOP 3'-0" MINIMUM IS CAST IRON AT ROOF PENETRATION.
* PAINT VTR TO MATCH ROOF.

VENT THRU ROOF STORM SHELTER DETAIL

NO SCALE

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

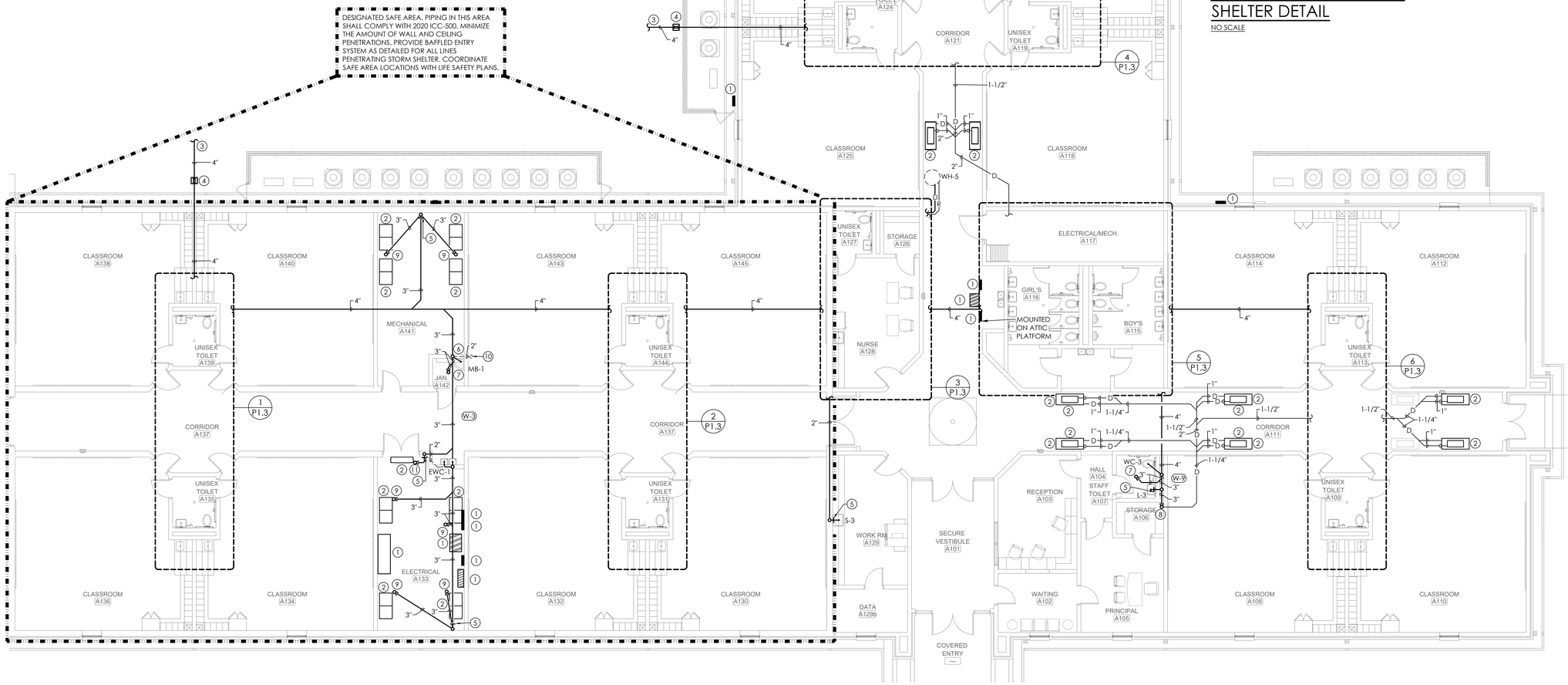
PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. SEE SITE UTILITY PLAN FOR CONTINUATION.
4. C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
5. W.C.O.
6. 2" V.T.R. (3'-0" MIN. CAST IRON) PROVIDE HANGAR SUPPORT AT ELBOW BELOW V.T.R.
7. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD)
8. 2"X3" HUB DRAIN IN STORAGE. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATED.
9. 3" F.D. (PROVIDE TRAP PRIMER)
10. SEE STORM SHELTER PENETRATION DETAIL
11. 2"X3" HUB DRAIN AT MECHANICAL UNIT. COORDINATE HEIGHT WITH UNIT. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATED



PLUMBING WASTE AND VENT PIPING PLAN - PART "A"

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

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

MORRIS DAVIS ENGINEERING LLC
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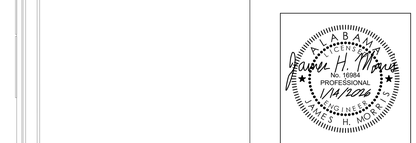
PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

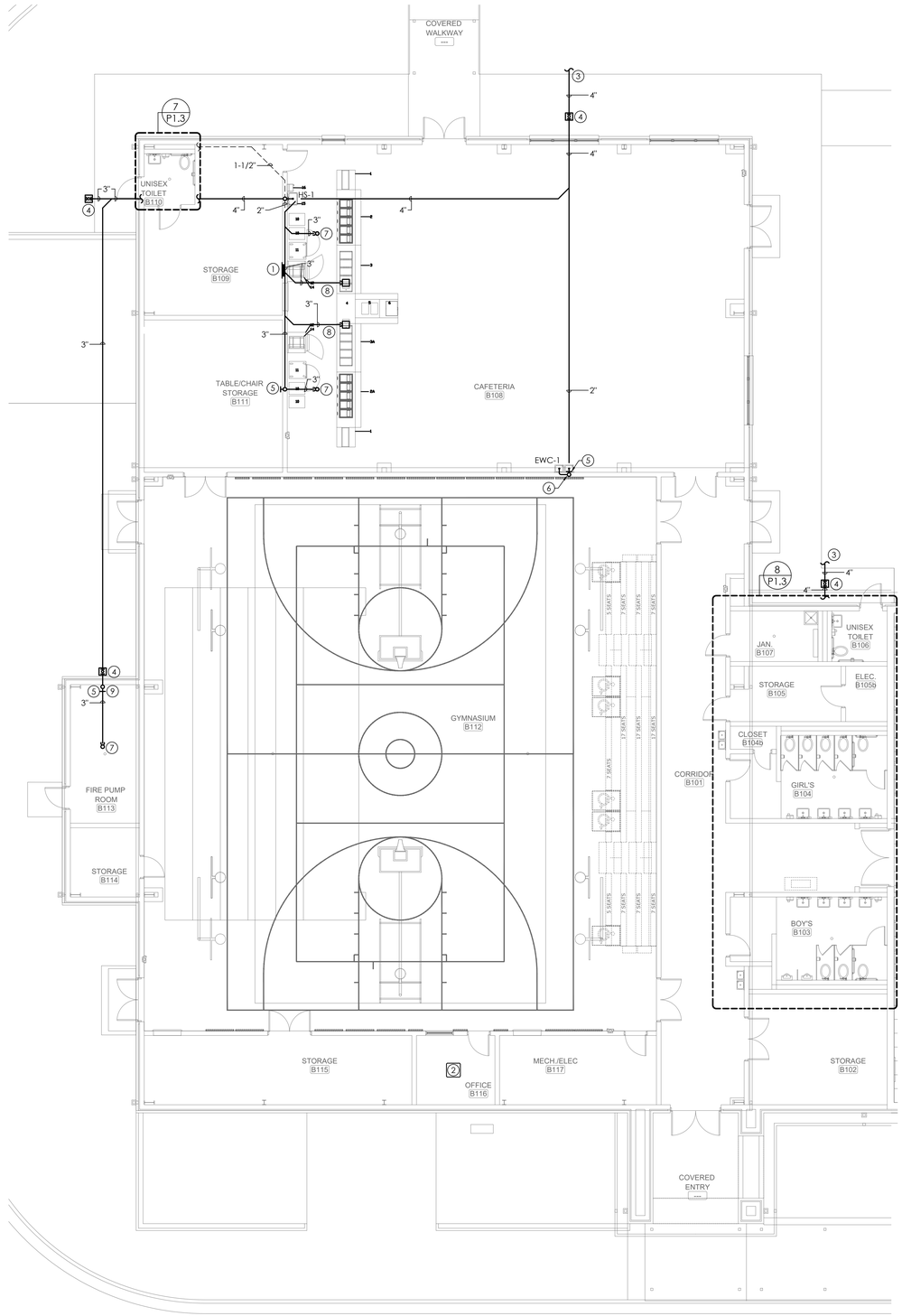
ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING WASTE AND VENT PIPING PLAN - PART "A"



PROJ. MGR.:
DRAWN: BP
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
P1.1
0 1" 2"



PLUMBING WASTE AND VENT PIPING PLAN - PART "B"

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

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. SEE SITE UTILITY PLAN FOR CONTINUATION.
4. C.O.1.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
5. W.C.O.
6. 2" V.T.R. (3'-0" MIN. CAST IRON) (PROVIDE HANGER SUPPOERT AT ELBOW BELOW V.T.R.)
7. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD)
8. 3" F.S. (PROVIDE TRAP GUARD)
9. 2" AUTO AIR VENT STRAP TO WALL WITH UNISTRUT SUPPORT

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	REMARKS
1	2	DUAL SIDED MILK COOLER	FSC (FOOD SERVICE CONTRACTOR)
2/2A	2	WATERLESS HOT FOOD WELLS	FSC
3/3A	2	COLD FOOD WELLS	FSC
4	1	FLAT TOP WITH PANEL BOX	FSC
5	1	FLAT TOP FOR CONDIMENTS	FSC
6	1	CASHIER STAND	FSC
7	–	SPARE NUMBER	–
8	–	SPARE NUMBER	–
9	–	SPARE NUMBER	–
10	4	MOBILE STORAGE CABINET	FSC
11	3	MOBILE HEATED HOLDING CABINET (2 SHOWN ON PLANS)	FSC
12	2	ROLL IN REFRIGERATOR	FSC
13	–	SPARE NUMBER	–
14	4	ROLL IN REFRIGERATOR RACKS (2 SHOWN ON PLANS)	FSC
15	1	HAND SINK	NOT IN CONTRACT (NIC) BY OTHER TRADES
16	1	HAND DRYER	NIC BY OTHER TRADES
17	–	SPARE NUMBER	–
18	–	SPARE NUMBER	–
19	–	SPARE NUMBER	–
20	–	SPARE NUMBER	–

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

0 4' 8' 16'

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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING WASTE AND VENT PIPING PLAN - PART "B"

ALABAMA
JAMES H. MORRIS
No. 19984
PROFESSIONAL
ENGINEER
1/14/2026

PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

P1.2

0 1" 2"

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

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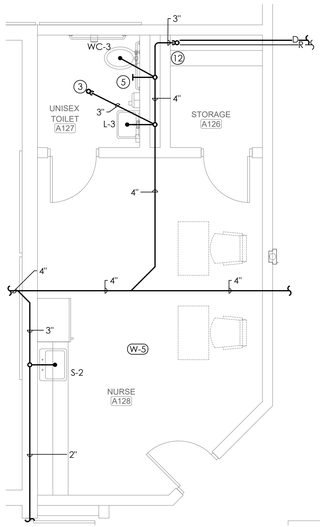
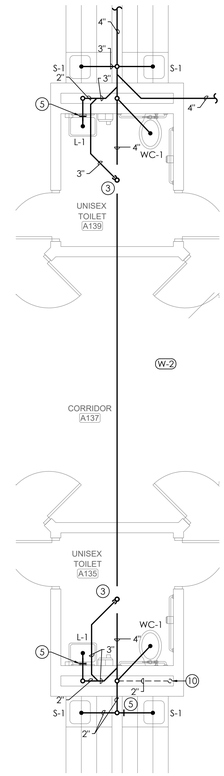
(#) NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
4. 4" V.T.R. (3'-0" MIN. CAST IRON) PROVIDE HANGER AT ELBOW BELOW V.T.R.
5. W.C.O.
6. 2" V.T.R. (3'-0" MIN. CAST IRON) PROVIDE HANGER AT ELBOW BELOW V.T.R.
7. F.C.O. (PROVIDE FRAME & COVER)
8. 2"X3" HUB DRAIN AT MECHANICAL PLATFORM. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATION.
9. 2"X3" HUB DRAIN IN WALL WITH 12"X12" VENTED ACCESS PANEL. PROVIDE TRAP PRIMER. INSULATION DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATED.
10. SEE STORM SHELTER PENETRATION DETAIL
11. 2"X3" HUB DRAIN AT MECHANICAL UNIT. COORDINATE HEIGHT WITH UNIT. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATION
12. 3" CAST IRON HUB DRAIN (MIN. 6'-0" CAST IRON PIPE) WH-5 RELIEF AND DRAIN LINE



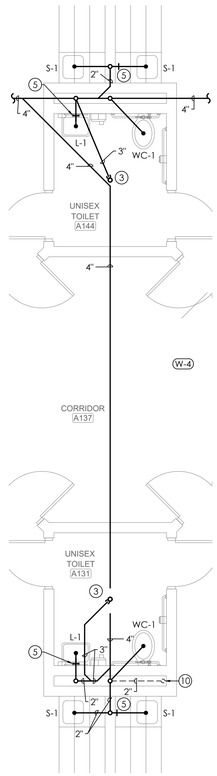
3 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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



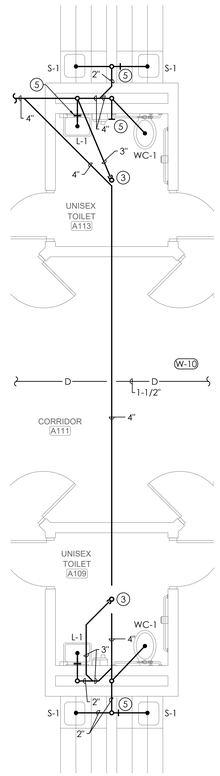
1 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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



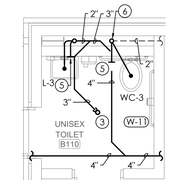
2 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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



6 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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

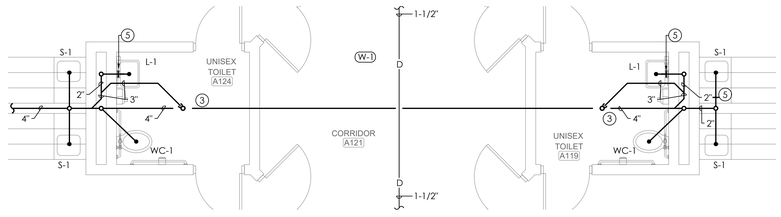


7 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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

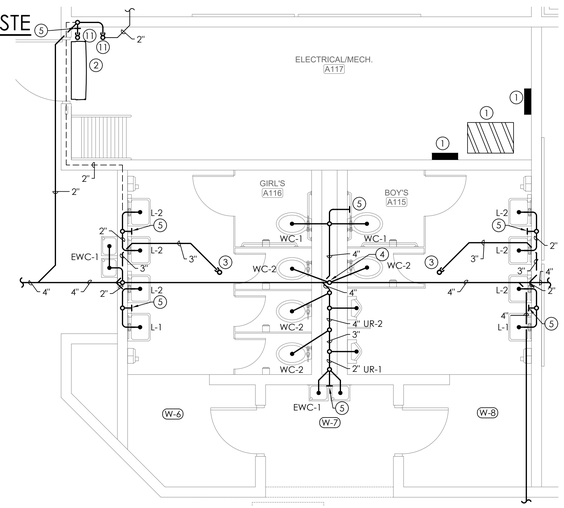
8 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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



4 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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



5 P1.1 PLUMBING ENLARGED WASTE AND VENT PIPING PLAN

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

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

0 2' 4' 8'

LATHAN ▪McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING WASTE AND VENT ENLARGED PIPING PLANS

ADAM H. MORRIS — No. 19804 — PROFESSIONAL — ENGINEER — ALABAMA

PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: P1.3

0 1" 2"

MORRIS DAVIS ENGINEERING LLC
903 SOUTH PERRY STREET
MONTGOMERY, AL 36104
T. (334) 269-0329
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PROJECT NO: 25-148

FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

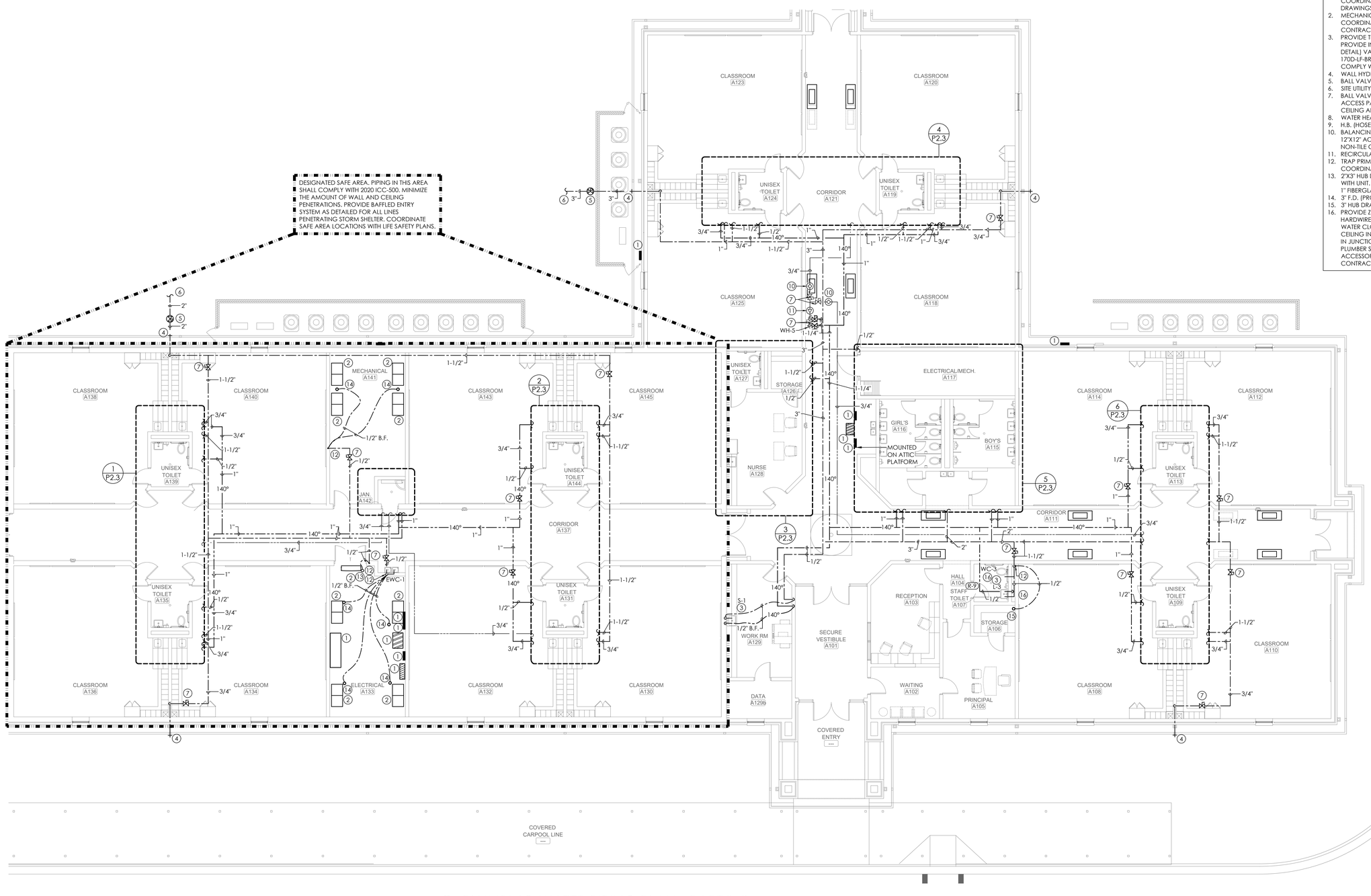
SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW3870XLT, LEONARD 170D-LF-BRKT OR SIOUX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
4. WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
5. BALL VALVE IN CONCRETE VALVE BOX.
6. SITE UTILITY PLAN FOR CONTINUATION.
7. BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
8. WATER HEATER. RECESSED IN WALL, PROVIDE CABINET.
9. H.B. (HOSE BIBB)
10. BALANCING VALVE LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
11. RECIRCULATING PUMP
12. TRAP PRIMER WITH 12"X12" STAINLESS STEEL ACCESS PANEL. COORDINATE HEIGHT WITH HUB DRAIN/S.
13. 2"X3" HUB DRAIN AT MECHANICAL UNIT. COORDINATE HEIGHT WITH UNIT. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATION
14. 3" F.D. (PROVIDE TRAP PRIMER)
15. 3" HUB DRAIN AT MECHANICAL PLATFORM
16. PROVIDE ZURN -M-J MINI JUNCTION BOX AND ZURN P6000-HW6 HARDWIRED POWER CONVERTER (OR EQUAL) FOR 6 VOLT DC WATER CLOSETS, FAUCETS, AND URINALS. MOUNT ABOVE CEILING IN EASILY ACCESSIBLE LOCATION. MOUNT CONVERTER IN JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR. PLUMBER SHALL PROVIDE LOW VOLTAGE WIRING AND ACCESSORIES TO SENSOR. COORDINATE WITH ELECTRICAL CONTRACTOR. (PROVIDE 12"X12" ACCESS PANEL)

DESIGNATED SAFE AREA. PIPING IN THIS AREA SHALL COMPLY WITH 2020 ICC-500. MINIMIZE THE AMOUNT OF WALL AND CEILING PENETRATIONS. PROVIDE BAFFLED ENTRY SYSTEM AS DETAILED FOR ALL LINES PENETRATING STORM SHELTER. COORDINATE SAFE AREA LOCATIONS WITH LIFE SAFETY PLANS.



SCALE: 1/8" = 1'-0"
0 4' 8' 16'

PLUMBING WATER PIPING PLAN - PART "A"

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

MORRIS DAVIS ENGINEERING LLC
903 SOUTH PERRY STREET
MONTGOMERY, AL 36104
T. (334) 269-0329
www.Jmorriseng.com
PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING WATER PIPING PLAN - PART "A"

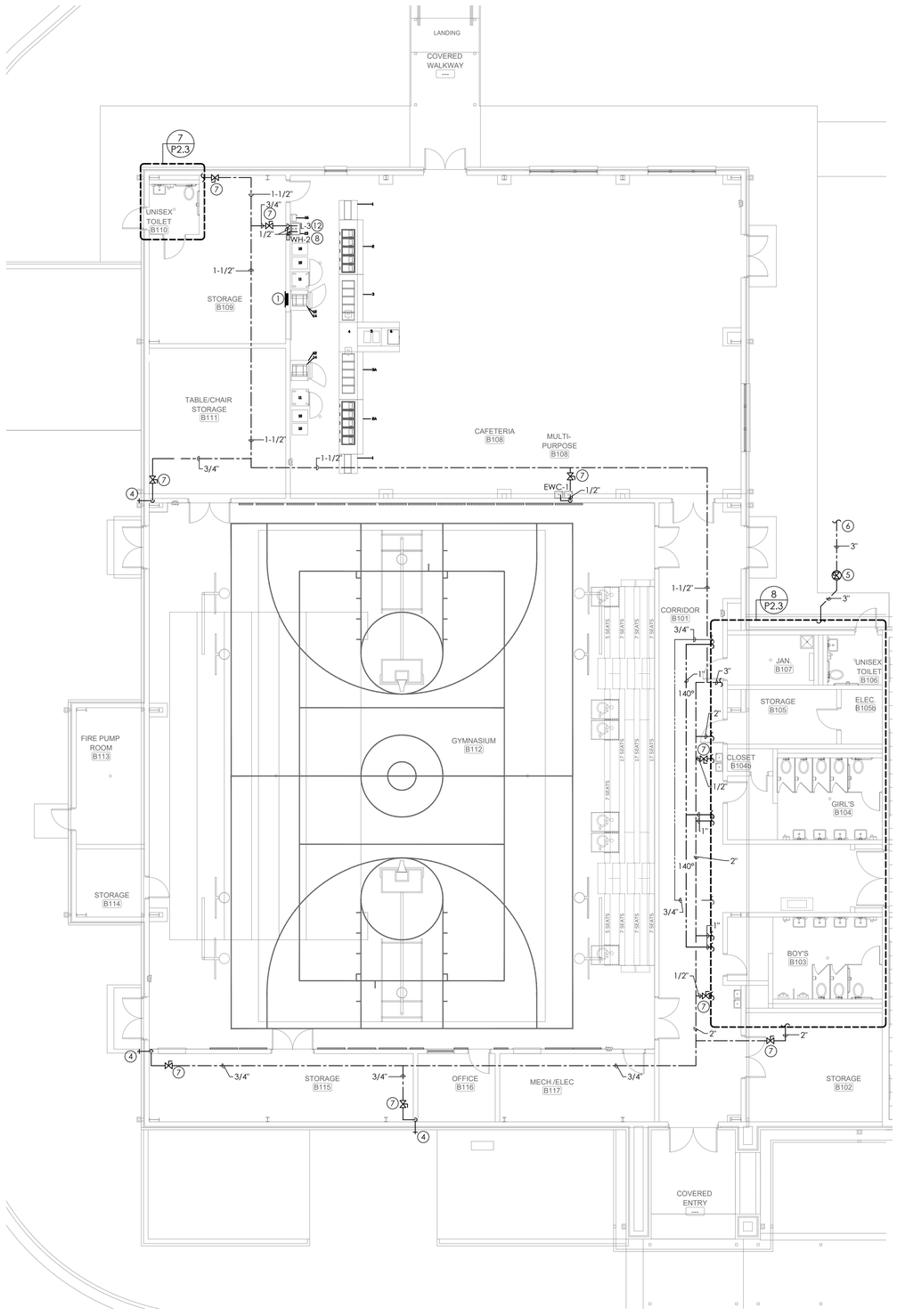
PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

P2.1

0 1" 2"



PLUMBING WATER PIPING PLAN - PART "B"

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

FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW3870XLT, LEONARD 170D-LF-BRKT OR SIOUX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
4. WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
5. BALL VALVE IN CONCRETE VALVE BOX.
6. SITE UTILITY PLAN FOR CONTINUATION.
7. BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
8. WATER HEATER. RECESSED IN WALL. PROVIDE CABINET.
9. H.B. (HOSE BIBB)
10. BALANCING VALVE LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
11. RECIRCULATING PUMP
12. PROVIDE ZURN -MJ MINI JUNCTION BOX AND ZURN P6000-HW6 HARDWIRED POWER CONVERTER (OR EQUAL) FOR 6 VOLT DC WATER CLOSETS, FAUCETS, AND URINALS. MOUNT ABOVE CEILING IN EASILY ACCESSIBLE LOCATION. MOUNT CONVERTER IN JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR. PLUMBER SHALL PROVIDE LOW VOLTAGE WIRING AND ACCESSORIES TO SENSOR. COORDINATE WITH ELECTRICAL CONTRACTOR. (PROVIDE 12"X12" ACCESS PANEL)

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	REMARKS
1	2	DUAL SIDED MILK COOLER	FSC (FOOD SERVICE CONTRACTOR)
2/2A	2	WATERLESS HOT FOOD WELLS	FSC
3/3A	2	COLD FOOD WELLS	FSC
4	1	FLAT TOP WITH PANEL BOX	FSC
5	1	FLAT TOP FOR CONDIMENTS	FSC
6	1	CASHIER STAND	FSC
7	–	SPARE NUMBER	–
8	–	SPARE NUMBER	–
9	–	SPARE NUMBER	–
10	4	MOBILE STORAGE CABINET	FSC
11	3	MOBILE HEATED HOLDING CABINET (2 SHOWN ON PLANS)	FSC
12	2	ROLL IN REFRIGERATOR	FSC
13	–	SPARE NUMBER	–
14	4	ROLL IN REFRIGERATOR RACKS (2 SHOWN ON PLANS)	FSC
15	1	HAND SINK	NOT IN CONTRACT (NIC) BY OTHER TRADES
16	1	HAND DRYER	NIC BY OTHER TRADES
17	–	SPARE NUMBER	–
18	–	SPARE NUMBER	–
19	–	SPARE NUMBER	–
20	–	SPARE NUMBER	–

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

0 4' 8' 16'

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LATHAN ▪McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

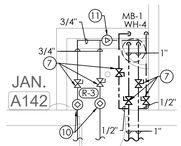
SHEET TITLE:
PLUMBING WATER PIPING PLAN - PART "B"

ALABAMA LICENSED PROFESSIONAL Jason H. Morris No. 16984 1/14/2026 MECHANICAL ENGINEER

PROJ. MGR.:
DRAWN: BP
DATE: 1-14-2026
REVISIONS

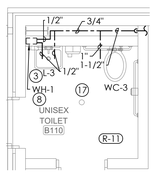
JOB NO. 24-304
SHEET NO:
P2.2

0 1" 2"



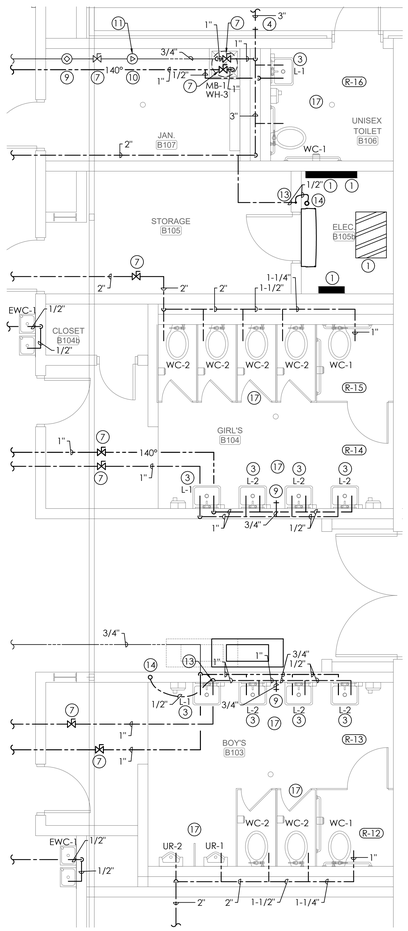
8 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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



7 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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



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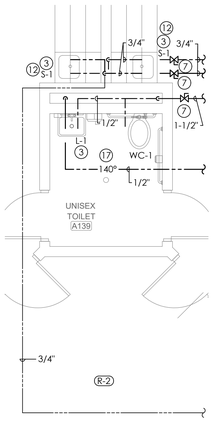
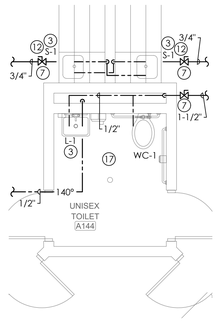


1 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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



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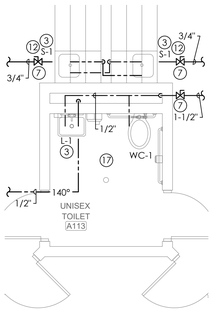
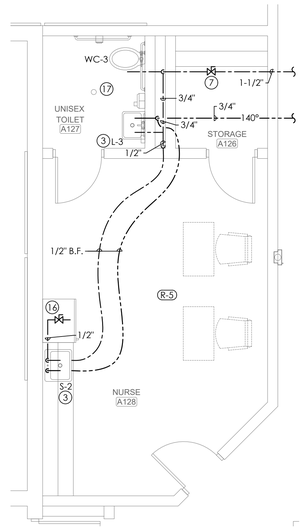
SCALE: 1/4"=1'-0"



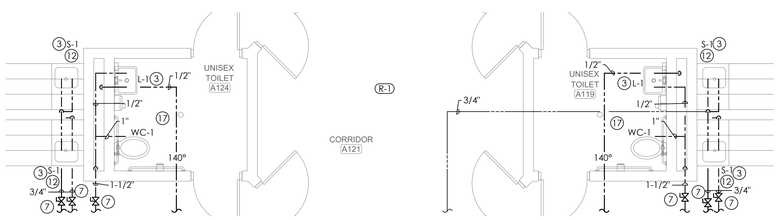
6 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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



3 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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



4 P2.3 PLUMBING ENLARGED WATER PIPING PLAN

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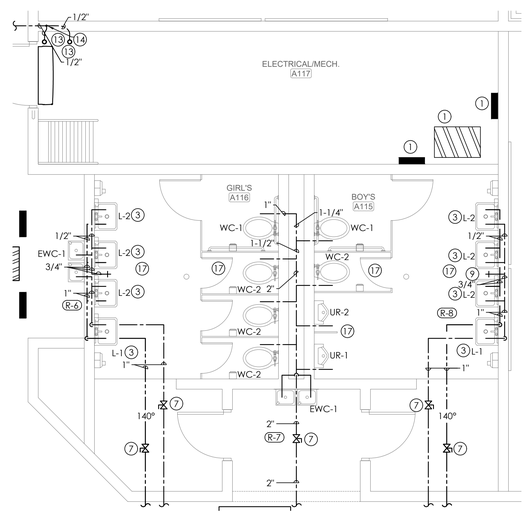

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11. RECIRCULATING PUMP
12. PROVIDE BUBBLER AT CLASSROOM SINK FIXTURE.
13. TRAP PRIMER WITH 12"X12" STAINLESS STEEL ACCESS PANEL. COORDINATE HEIGHT WITH HUB DRAIN/S.
14. 2"X3" HUB DRAIN AT MECHANICAL UNIT. COORDINATE HEIGHT WITH UNIT. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATED
15. 3" HUB DRAIN AT MECHANICAL PLATFORM
16. 1/2" C.W. TO ICE MAKER IN REFRIG. PROVIDE WATER HAMMER ARRESTOR-PROVIDE BACK FLOW PREVENTION DEVICE (2021 I.P.C. 608.3)
17. PROVIDE ZURN -MJ MINI JUNCTION BOX AND ZURN P6000-HW6 HARDWIRED POWER CONVERTER (OR EQUAL) FOR 6 VOLT DC WATER CLOSETS, FAUCETS, AND URINALS. MOUNT ABOVE CEILING IN EASILY ACCESSIBLE LOCATION. MOUNT CONVERTER IN JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR. PLUMBER SHALL PROVIDE LOW VOLTAGE WIRING AND ACCESSORIES TO SENSOR. COORDINATE WITH ELECTRICAL CONTRACTOR. (PROVIDE 12"X12" ACCESS PANEL)

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

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ADDITION TO
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FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING WASTE AND VENT ENLARGED PIPING PLANS

ALABAMA
Jason H. Morris
No. 16984
PROFESSIONAL
1/14/2026
ENGINEER
MORRIS

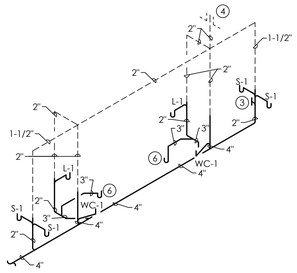
PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

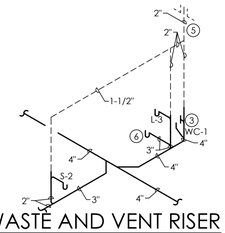
SHEET NO:

P2.3

0 1" 2"



WASTE AND VENT RISER (W-1)
NO SCALE



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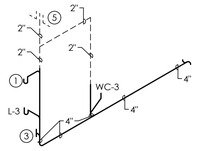

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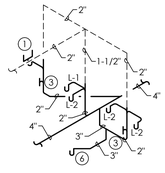

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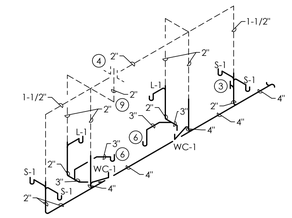

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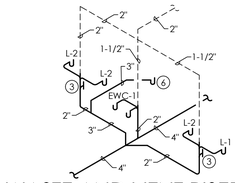

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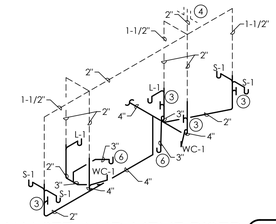

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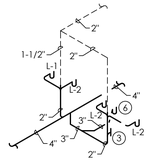

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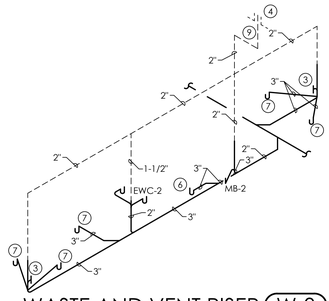

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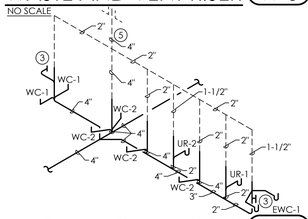

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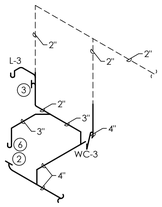

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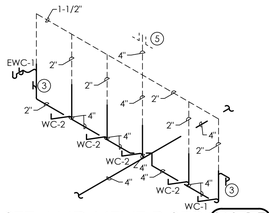

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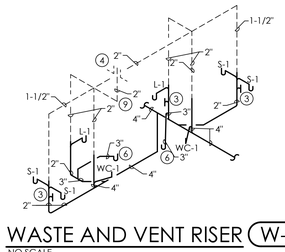

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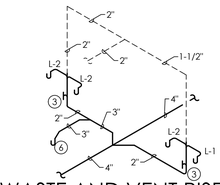

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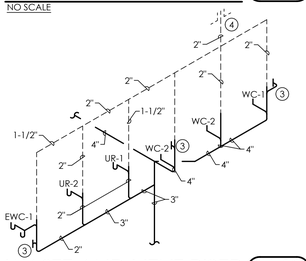

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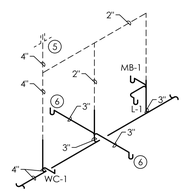

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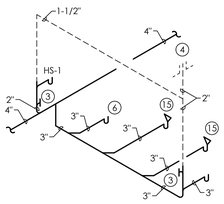

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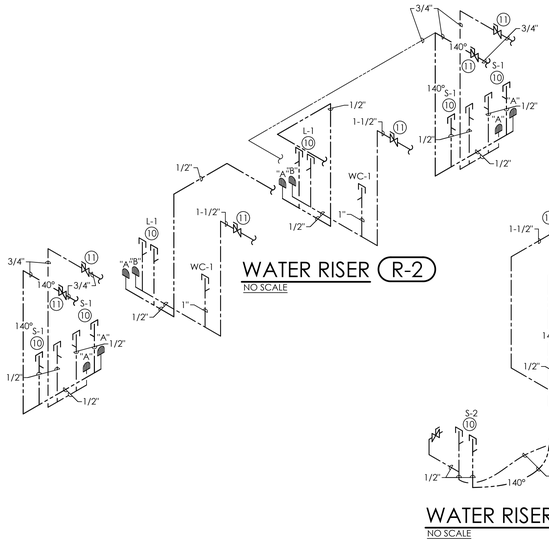
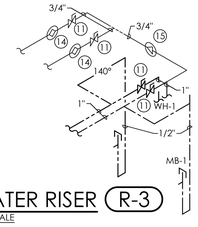


WATER RISER (R-2)
NO SCALE

WATER RISER (R-5)
NO SCALE



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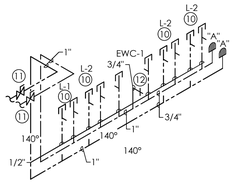

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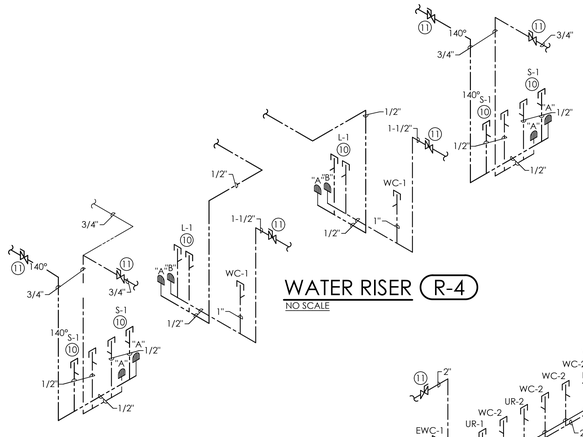

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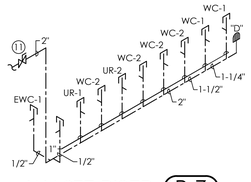

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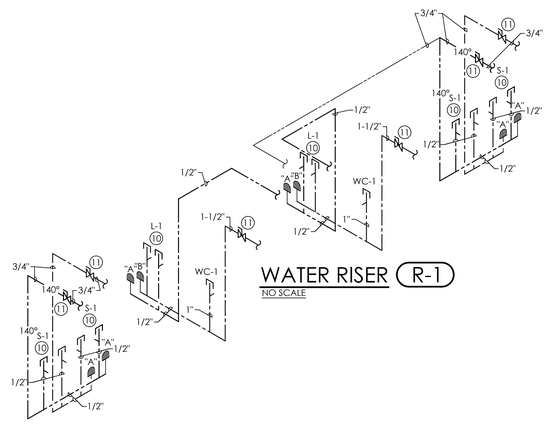

WATER RISER (R-1)
NO SCALE

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. 2"X3" HUB DRAIN IN WALL WITH 12"X12" VENTED ACCESS PANEL. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATED.
2. F.C.O. PROVIDE COVER AND FRAME.
3. W.C.O.
4. 2" V.T.R. (3'-0" MIN. CAST IRON)
5. 4" V.T.R. (3'-0" MIN. CAST IRON)
6. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD)
7. 3" FLOOR DRAIN. (PROVIDE TRAP PRIMER)
8. F.C.O. (PROVIDE FRAME & COVER)
9. SEE STORM SHELTER PENETRATION DETAIL
10. PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW3870XLT, LEONARD 170D-LF-BRKT OR SIOUX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
11. BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
12. H.B. (HOSE BIBB)
13. 3" F.S. (PROVIDE TRAP GUARD)
14. BALANCING VALVE LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
15. RECIRCULATING PUMP

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING RISERS

ALABAMA
No. 16984
PROFESSIONAL
1/14/2026
JAMES MORRIS

PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304
SHEET NO:
P3.1

0 1" 2"

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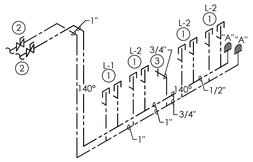
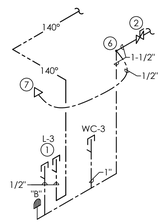
PROJECT NO: 25-148



WASTE RISER (R-8)
NO SCALE



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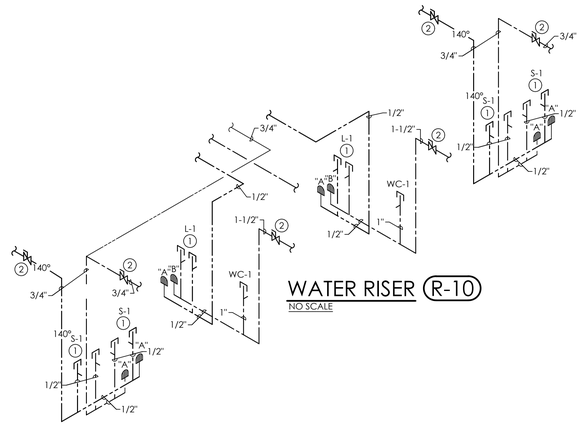


WATER RISER (R-10)
NO SCALE

FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

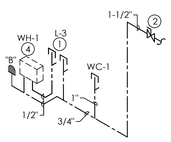
VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

(#) NOTE LEGEND: (THIS SHEET ONLY)

1. PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW3870XLT, LEONARD 170D-LF-BRKT OR SIOUX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
2. BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12' ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
3. H.B. (HOSE BIBB)
4. WATER HEATER, RECESSED IN WALL. PROVIDE CABINET.
5. WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
6. TRAP PRIMER WITH 12"X12" STAINLESS STEEL ACCESS PANEL. COORDINATE HEIGHT WITH HUB DRAIN/S
7. 2"X3" HUB DRAIN AT MECHANICAL UNIT. COORDINATE HEIGHT WITH UNIT. PROVIDE TRAP PRIMER. INSULATED DEEP SEAL P-TRAP. 1" FIBERGLASS INSULATION



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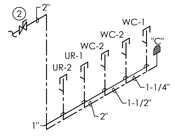

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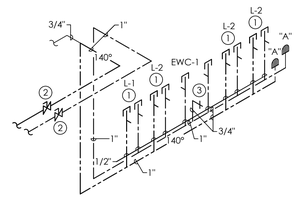

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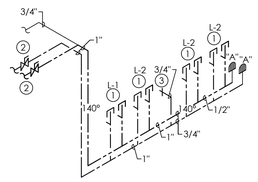

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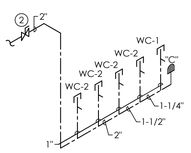

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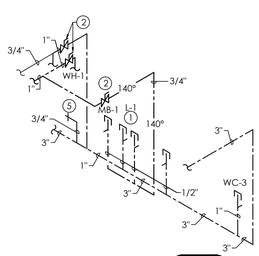

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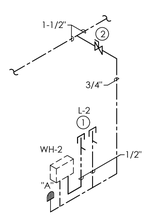

WATER RISER (R-17)
NO SCALE

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ADDITION TO
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ANDALUSIA, ALABAMA

SHEET TITLE:
PLUMBING RISERS

ALABAMA
Jason H. Morris
No. 16984
PROFESSIONAL
1/14/2026
ENGINEER
JASON H. MORRIS

PROJ. MGR.:	
DRAWN:	BP
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

P3.2

0 1" 2"

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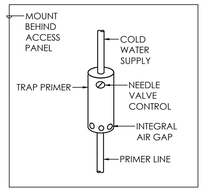
PROJECT NO: 25-148

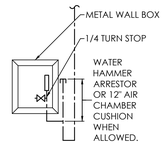
PLUMBING GENERAL NOTES

1. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
2. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
3. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH THE 2021 INTERNATIONAL PLUMBING CODE.
4. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
5. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
6. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
7. ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS.
8. INSTALL WATER HAMMER ARRESTORS AS FOLLOWS:
   A. LAY IN CEILING: MOUNT WATER HAMMER ARRESTOR ABOVE CEILING FOR ACCESS.
   B. SHEETROCK CEILING: MOUNT WATER HAMMER ARRESTOR IN CHASE WALL. PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL IN WALL.
9. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
10. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
11. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS.
12. MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
13. ALL WASTE AND VENT IN CORRIDOR WALLS, RATED WALLS OR RETURN AIR PLENUMS TO BE CAST IRON PIPE.
14. ALL VTR'S TO BE CAST IRON (3'-0" MIN. LENGTH) AT ROOF PENETRATION.
15. SUPPORT PIPE AS REQUIRED BY THE 2021 INTERNATIONAL PLUMBING CODE.
16. FIRESTOP ALL RATED WALLS AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
17. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
18. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE OR ON FLAT ROOF (AS SHOWN).
19. ALL CEILING ACCESS PANELS SHALL BE PAINTED TO MATCH CEILING.
20. PROVIDE FIRESTOPPING ASSEMBLIES AT ANY AND ALL FIRE-RATED PENETRATIONS. EQUAL TO ROXTEC.
21. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).
22. PROVIDE 12"X12" CEILING ACCESS PANEL (MI FAB OR EQUAL) TO MATCH CEILING FOR ALL VALVES IF LOCATED IN TILE CEILING AREA. (TYPICAL)
23. ALL PLUMBING PRODUCTS THAT COME INTO CONTACT WITH POTABLE (DRINKABLE) WATER SHALL COMPLY WITH SAFE DRINKING WATER ACT (SDWA) AND THE REDUCTION OF LEAD IN DRINKING WATER. REDUCTION OF LEAD IN DRINKING WATER ACT WENT INTO EFFECT ON JANUARY 4, 2014
24. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
25. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
26. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
27. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
28. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
29. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE DEVICE.
30. PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE.
32. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
33. WHERE DISSIMILAR PIPING MATERIALS (STEEL AND COPPER) ARE CONNECTED, INSTALL A THREADED BRASS NIPPLE FOR PIPE SIZES 2" AND LESS. FOR PIPE SIZES 2-1/2" AND ABOVE, INSTALL ISOLATING FLANGES. DIELECTRIC UNIONS ARE NOT TO BE USED EXCEPT AT THE WATER HEATERS.
34. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING PIPING AND FITTINGS.
35. ALL PLUMBING FIXTURES SHALL BE WHITE. (UNLESS STATED OTHERWISE)
36. INSTALL "TRAPGUARD" FOR FLOOR DRAINS IN BATHROOMS, RESTROOMS, JANITOR, MECHANICAL ROOMS AND PARTY ROOM FLOOR DRAINS. ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS AND "TRAPGUARD". (NO EXCEPTIONS).
37. PROVIDE APPROVED BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
38. PROVIDE CLEANOUTS EVERY 75'-0" OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE. COORDINATE LOCATIONS WITH ARCHITECT.
39. PROVIDE PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 60 PSI. PROVIDE PRV AT EVERY BUILDING SUPPLY.
40. THESE PLANS (ALL PLUMBING SHEETS) ARE SCHEMATIC IN NATURE AND ARE INTENDED TO ESTABLISH SIZE, GENERAL ROUTING, LOCATION, PERFORMANCE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS, ALL WORK SHALL BE FULLY COORDINATED WITH OTHER TRADES TO INSURE THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM THAT FITS IN THE SPACE ALLOTTED. PROVIDE ALL LABOR, EQUIPMENT, APPURTENANCES AND MATERIALS NECESSARY, AND PERFORM ALL OPERATIONS REQUIRED FOR THE INSTALLATION OF COMPLETE, FUNCTIONAL PLUMBING SYSTEMS AS OUTLINED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
41. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES. (2021 IBC, 2024 IPC, 2021 IECC)
42. VERIFY ALL POINTS OF CONNECTION WITH OTHER DISCIPLINES (LOCATION AND INVERT) PRIOR TO INSTALLATION. THIS SHALL INCLUDE EXISTING SITE UTILITIES AS WELL AS NEW SITE UTILITIES INSTALLED UNDER THE SCOPE OF WORK FOR THIS PROJECT.
43. COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, ELECTRICAL LIGHTING AND STRUCTURE IN THE CEILING PLENUMS.
44. WHEN / IF A CONFLICT EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE HIGHER STANDARD / DIRECTION SHALL APPLY. THE FINAL DECISION SHALL BE MADE BY THE ARCHITECT AND / OR ENGINEER. THE HIGHER PRICE SHALL BE INCLUDED IN THE BID PRICE.
45. COORDINATE ALL DWV PIPING WITH THE JOIST LAYOUT BELOW. COORDINATE THROUGH THE ARCHITECT, GENERAL CONTRACTOR, THIS SET OF CONSTRUCTION DOCUMENTS (STRUCTURAL / ARCHITECTURAL) ETC. THERE WILL NOT BE ANY CHANGE ORDERS ISSUED OR PAID FOR GENERAL / REQUIRED OFFSETS DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE STRUCTURE PRIOR TO BID. THE SUBMITTED BID PRICE SHALL HAVE A ALLOWANCE FOR ALL REQUIRED OFFSETS, ETC.
46. COORDINATE MIN. SLOPE FOR SANITARY SEWER WITH TIE IN ELEVATIONS. PROVIDE 1/8" PER FOOT MIN. SLOPE IF ELEVATION WILL ALLOW.
47. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL PLANS.
48. ALL VENT PIPING SHALL BE ATTACHED TO WALL NO FURTHER THAN 3'-0" AWAY.
49. ELECTRICAL OUTLETS SHALL BE INSTALLED BEHIND ELECTRIC WATER COOLERS (NOT EXPOSED)
50. ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
51. ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
52. PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. CLEANOUTS SHALL BE HIGH ENOUGH TO CLEAR THE TILE BASE WITHOUT CUTTING OF THE BASE AND SHALL BE LOCATED WITHIN THE SPECIFIED PIPING ENCLOSURE FOR ALL WALL MOUNTED LAVATORIES AND WALL MOUNTED HAND SINKS WHEN POSSIBLE.
53. LOCATE CLEANOUTS TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
54. EXTREME CARE SHALL BE TAKEN WHEN ROUGHING IN CLEANOUTS AT EACH WALL MOUNTED LAVATORY AND HAND SINK. CLEANOUTS SHALL BE LOCATED WITHIN THE SPECIFIED LAV. SHIELD PIPING COVER WHENEVER POSSIBLE.
55. ALL CLEANOUTS SHALL BE ROUGHED IN HIGH ENOUGH TO CLEAR THE ARCHITECTURAL BASE MOLDING WITHOUT CUTTING THE BASE MOLDING.
56. PROVIDE A BALL VALVE ON ONE SIDE OF EVERY DIELECTRIC UNION AS REQUIRED TO FACILITATE ITS REMOVAL.
57. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.



TRAP PRIMER DETAIL

NO SCALE



ICE MAKER WALL BOX DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE

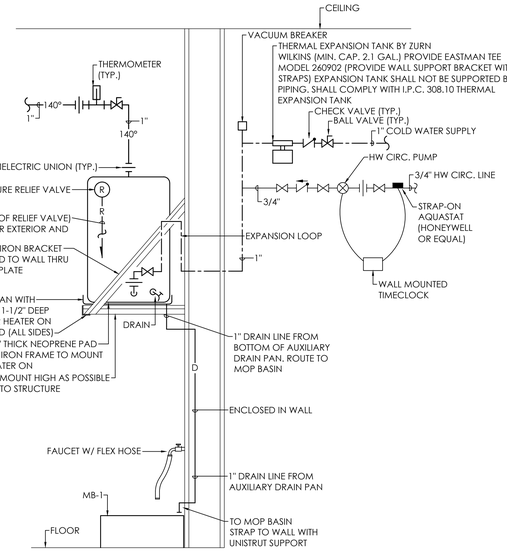
MARK	FIXTURE	COLD	HOT	WASTE	REMARKS
WC-1	WATER CLOSET (H/C) ✱ (CHILD ADA)	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE (H/C), HARD WIRED SENSOR CONTROLS
WC-2	WATER CLOSET	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE, HARD WIRED SENSOR CONTROLS
WC-3	WATER CLOSET (H/C)	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE (H/C), HARD WIRED SENSOR CONTROLS
UR-1	URINAL (H/C) (CHILD ADA)	1"	---	2"	WALL MOUNTED, MOUNT 17" LIP TO FINISHED FLOOR, CONTROLS 30" A.F.F., HARD WIRED SENSOR CONTROLS
UR-2	URINAL	1"	---	2"	WALL MOUNTED, MOUNT 17" LIP TO FINISHED FLOOR, HARD WIRED SENSOR CONTROLS
L-1	LAVATORY (H/C) ✱ ✱ (CHILD, ADA)	1/2"	1/2"	1-1/4"	WALL HUNG, HANG 31" RIM TO FINISHED FLOOR, HARD WIRED SENSOR CONTROLS
L-2	LAVATORY	1/2"	1/2"	1-1/4"	WALL HUNG, HARD WIRED SENSOR CONTROLS, HARD WIRED SENSOR CONTROLS
L-3	LAVATORY	1/2"	1/2"	1-1/4"	WALL HUNG, HANG 34" RIM TO FINISHED FLOOR, HARD WIRED SENSOR CONTROLS
MB-1	MOP BASIN	1/2"	1/2"	3"	24" X 24" FIBERGLASS
EWC-1	ELECTRIC WATER COOLER (H.C., BI-LEVEL) ✱ ✱ ✱	1/2"	---	2"	WALL MOUNTED, MOUNT 30" SPOUT TO FINISHED FLOOR, WITH BOTTLE FILLER, PROVIDE WATER HAMMER ARRESTOR
HS-1	HAND SINK ✱ ✱ (H/C)	1/2"	1/2"	1-1/4"	WALL MOUNTED, 34" RIM TO FINISHED FLOOR
S-1	SINK (H/C) ✱ ✱	1/2"	1/2"	1-1/2"	STAINLESS STEEL SINGLE COMPARTMENT - CLASSROOM SINK WITH BUBBLER
S-2	SINK (H/C) ✱ ✱ NURSE	1/2"	1/2"	1-1/2"	STAINLESS STEEL SINGLE COMPARTMENT
S-3	SINK (H/C) ✱ ✱ WORK ROOM	1/2"	1/2"	1-1/2"	STAINLESS STEEL SINGLE COMPARTMENT

FIXTURE SCHEDULE NOTES:
✱ HANDLE TO WIDE SIDE OF STALL.
✱ ✱ INSULATE P-TRAP, DRAIN AND SUPPLIES WITH HANDI LAV GUARD INSULATION KIT #102W OR EQUAL BY TRAP WRAP AND McGUIRE PRO WRAP.
✱ ✱ ✱ COORDINATE FINISH WITH ARCHITECT AND OWNER (MIDNIGHT BLACK, ARCTIC WHITE, OR STAINLESS STEEL AND SAFETY BUBBLER LEAD FREE

ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE CAPACITY	RECOVERY @ 100°F△T	KW	VOLT	PH	CY	REMARKS
WH-1	---	---	3.32	277	1	60	1,6
WH-2	---	---	3.32	277	1	60	1,6
WH-3	30	24	6	480	1	60	1,2,3,4,5
WH-4	30	24	6	480	1	60	1,2,3,4,5
WH-5	50	49	6	480	3	60	1,3,4,5,7

ELECTRIC WATER HEATER SCHEDULE NOTES:
1. PROVIDE THREE YEAR WARRANTY.
2. PROVIDE EXPANSION TANK (SEE SPEC.)
3. BASED ON RHEEM EGSP-30 OR EQUAL.
4. PROVIDE CIRC. PUMP 1/20 HP, 120/1/60. (SEE SPECS)
5. PROVIDE TIME CLOCK 120/1/60 (SEE SPECS)
6. BASED ON CHRONOMITE CM-12L/277-ADJ-Z-S1616D (INVISIBLE ONLY WITH DISCONNECT) OR EQUAL
7. BASED ON RHEEM ES-50-G OR EQUAL

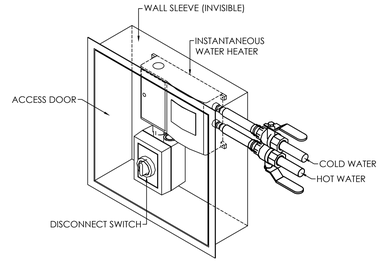


WATER HEATER CONNECTION & MOUNTING DETAIL

NO SCALE (WH-3 & WH-4)

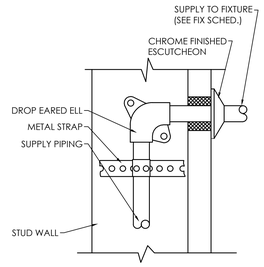
PLUMBING LEGEND

	WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
140°	HOT WATER PIPING (140°)
	HOT WATER RETURN PIPING
	BALANCING VALVE
	BALL VALVE
	BALL VALVE IN 24"X24"X6" CONC. VALVE BOX
C.O.T.G.	C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.)(PROVIDE FRAME AND COVER)
F.D.	FLOOR DRAIN
W-1	WASTE RISER
R-1	WATER RISER
W.H.(F.P.)	WALL HYDRANT (FREEZE PROOF) (IN BOX WITH LOOSE TEE KEY)
B.F.	BELOW FLOOR
V.T.R.	VENT THRU ROOF (3'-0" SECTION PROVIDE SUPPORT AT ELBOW BELOW V.T.R.)
W.C.O.	WALL CLEANOUT
F.C.O.	FLOOR CLEANOUT. PROVIDE FRAME AND COVER.
"A" WHA	WATER HAMMER ARRESTOR (LOCATE ABOVE CEILING, OR PROVIDE ACCESS)
H.B.	HOSE BIBB (WITH WHEEL HANDLE)



INSTANTANEOUS WATER HEATER CONNECTION DETAIL

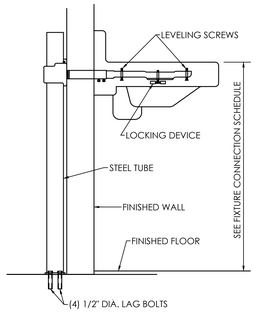
NO SCALE (WH-1&WH-2)



NOTE: ANCHOR AND SECURE SUPPLY PIPING TO STUD WALL AS SHOWN OR BLOCKING BETWEEN STUDS.

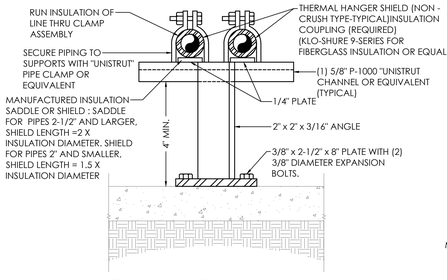
ANCHORING FOR WATER SUPPLY DETAIL

NO SCALE



LAVATORY CARRIER DETAIL

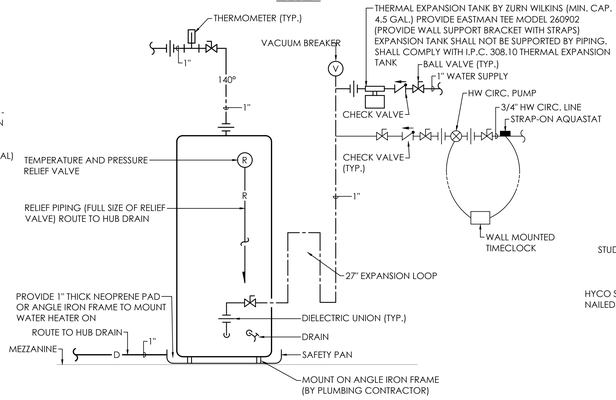
NO SCALE BASED ON ZURN Z-1231-SL



NOTE: PAINT ANGLE SUPPORTS TO MATCH BUILDING FACE BRICK COLOR (TYPICAL)

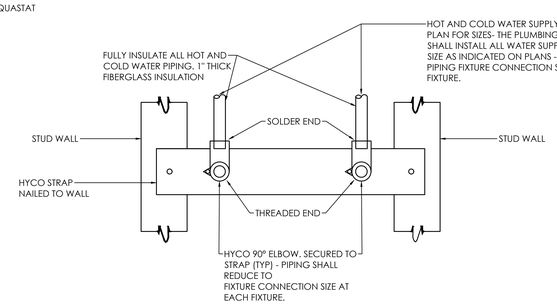
EXTERIOR PIPE SUPPORT DETAIL

NO SCALE (NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER)



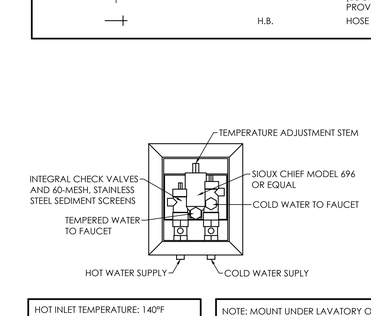
WATER HEATER CONNECTION DETAIL

NO SCALE (WH-5)



PIPE SUPPORT DETAIL

NO SCALE

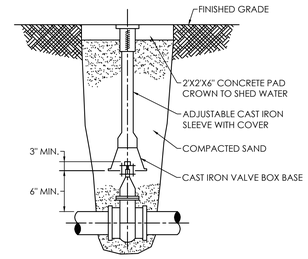


HOT INLET TEMPERATURE: 140°F
COLD INLET TEMPERATURE: 39°F - 80°F
TEMPERATURE OUT: 110°F

NOTE: MOUNT UNDER LAVATORY OR SINK. PROVIDE SUPPORT BRACKET. MOUNT IN WALL. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME (NO EXCEPTIONS)

TEMPERATURE LIMITING VALVE IN WALL BOX DETAIL

NO SCALE



NOTE:
1. VALVE BOX SHALL NOT REST ON VALVE OR MAIN LINE PIPE.
2. A VALVE STEM EXTENSION WITH CENTERING RING IS REQUIRED FOR VALVES BURIED DEEPER THAN 6'.

BALL VALVE AND BOX DETAIL

NO SCALE

MORRIS DAVIS ENGINEERING LLC
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MONTGOMERY, AL 36104
T. (334) 269-0329
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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

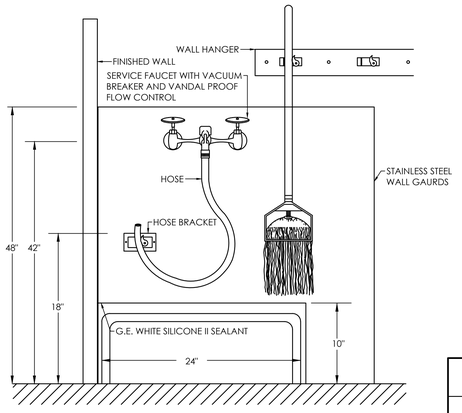
SHEET TITLE:
PLUMBING WASTE AND VENT ENLARGED PIPING PLANS

ALABAMA REGISTERED ENGINEER
Jason H. Morris
No. 16984
PROFESSIONAL
03/06/2026
ENGINEER
JASON H. MORRIS

PROJ. MGR.:
DRAWN: BP
DATE: 1-14-2026
REVISIONS

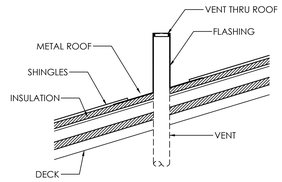
JOB NO. 24-304
SHEET NO:
P4.1

0 1" 2"



MOP SINK AND ACCESSORIES DETAIL

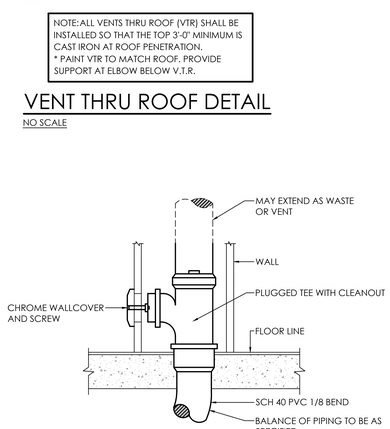
NO SCALE



NOTE: ALL VENTS THRU ROOF (VTR) SHALL BE INSTALLED SO THAT THE TOP 3'-0" MINIMUM IS CAST IRON AT ROOF PENETRATION.
* PAINT VTR TO MATCH ROOF. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

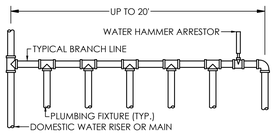
VENT THRU ROOF DETAIL

NO SCALE



WALL CLEANOUT DETAIL

NO SCALE

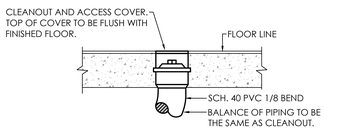


WATER HAMMER ARRESTOR SCHEDULE						
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

PROVIDE ACCESS FOR SERVICE.

WATER HAMMER ARRESTOR INSTALLATION DETAIL

NO SCALE



FLOOR CLEANOUT DETAIL (FCO)

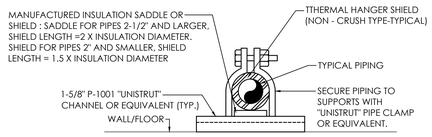
NO SCALE CLEANOUT SHALL NOT BE LOCATED IN ANY CARPETED AREAS.

FLOW DIRECTION LABEL. PROVIDE 360 DEGREE WRAP OVERLAPPING BOTH ENDS OF THE PIPE FUNCTION LABEL AND MATCHING THE FLOW DIRECTION OF THE PIPE CONTENTS.

NOTES:
A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE AT EACH CHANGE OF DIRECTION.
C. PROVIDE LABELS ON MAXIMUM CENTERS FOR EVERY PIPE AS NOTED IN THE SPECIFICATIONS.
D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN (E.G. ON THE BOTTOM OF THE PIPES IN THE AIR AND ON THE TOP OR SIDES OF PIPES MOUNTED LOW).
E. LABELS SHALL BE COLOR CODED, PRE-PRINTED, WRAP AROUND TYPE - NO SELF-ADHESIVE VINYL.
F. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

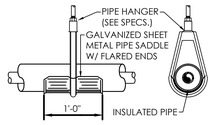
PIPING IDENTIFICATION DETAIL

NO SCALE



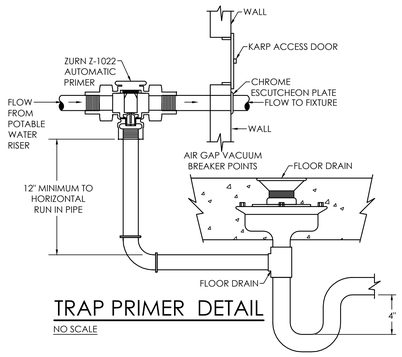
PIPING SUPPORT AT WALL/FLOOR DETAIL

NO SCALE



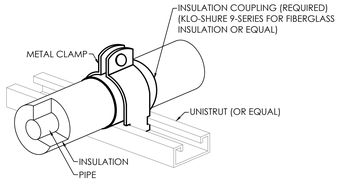
INSULATED PIPE HANGER

NO SCALE



TRAP PRIMER DETAIL

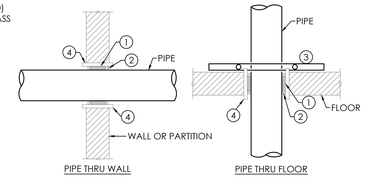
NO SCALE



NOTES:
1. APPLICATION: FOR STRUT-MOUNTED, 4-INCH AND SMALLER, COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.

STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL

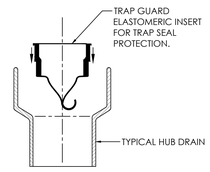
NO SCALE



PIPE THRU STRUCTURE LEGEND:
1. FIRE STOP FOAM
2. FIRE STOP SEALANT
3. RISER CLAMP
4. SLEEVE

PIPE THRU STRUCTURE DETAIL

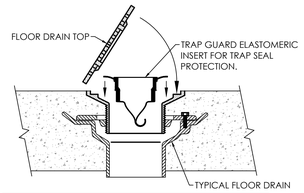
NO SCALE



NOTE: PROVIDE TRAP SEAL PROTECTION FOR ALL HUB DRAINS. INSTALL AND SEAL TRAP GUARD ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

TRAP GUARD DETAIL - HUB DRAIN

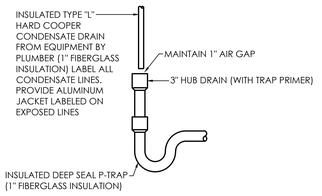
NO SCALE



NOTE: PROVIDE TRAP SEAL PROTECTION FOR ALL FLOOR DRAINS, HUB DRAINS, FLOOR SINKS AND INDIRECT DRAINS. INSTALL AND SEAL TRAP GUARD ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

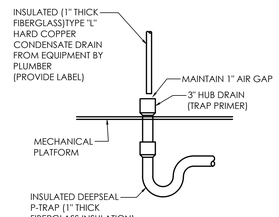
TRAP GUARD DETAIL - FLOOR DRAIN

NO SCALE



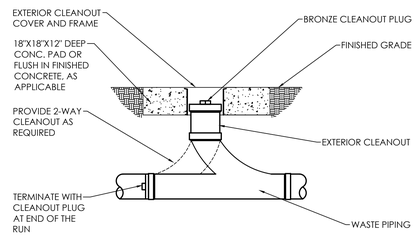
HUB DRAIN DETAIL

NO SCALE



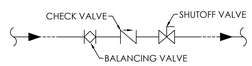
HUB DRAIN DETAIL

NO SCALE



TYP. EXTERIOR CLEANOUT DETAIL

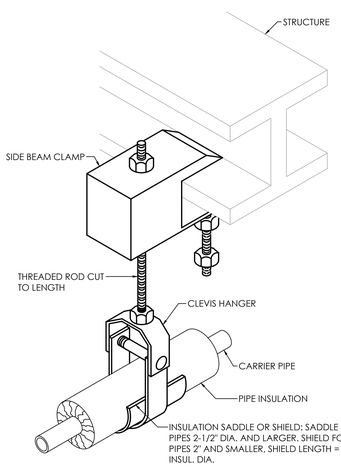
NO SCALE



NOTE:
THIS REQUIRED VALVE TRAIN IS REPRESENTED GRAPHICALLY AS JUST A BALANCING VALVE ON THE PLAN.

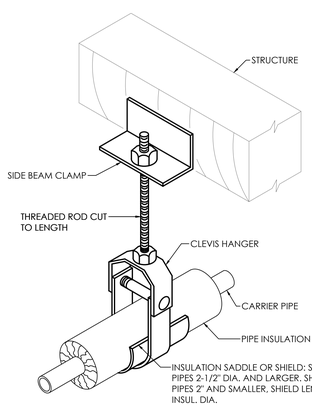
HOT WATER RETURN ASSEMBLY DETAIL

NO SCALE



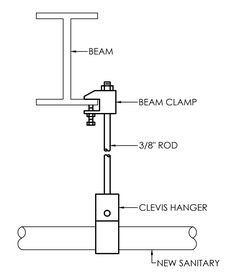
PIPE HANGER DETAIL

NO SCALE



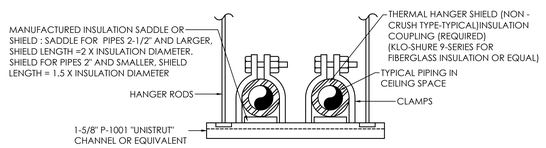
PIPE HANGER DETAIL

NO SCALE



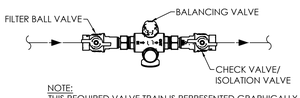
PIPE HANGER DETAIL

NO SCALE



SUSPENDED PIPING SUPPORT AT CEILING DETAIL

NO SCALE



NOTE:
THIS REQUIRED VALVE TRAIN IS REPRESENTED GRAPHICALLY AS JUST A BALANCING VALVE ON THE PLAN.

TERMOSTATIC BALANCING VALVE ASSEMBLY DETAIL

NO SCALE

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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

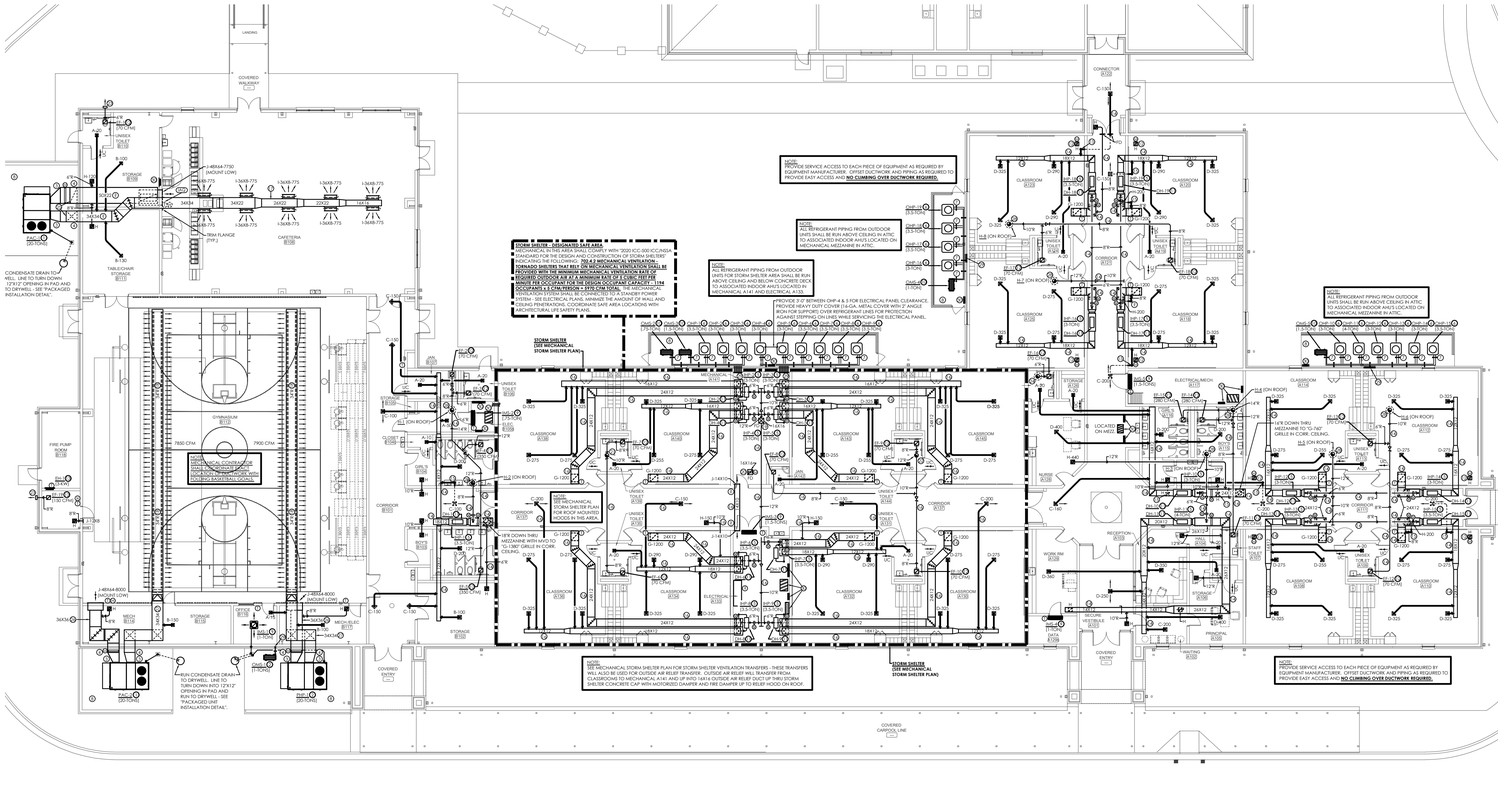
SHEET TITLE:
PLUMBING WASTE AND VENT ENLARGED PIPING PLANS

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 16984 JAMES MORRIS

PROJ. MGR.:
DRAWN: BP
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: P4.2

0 1" 2"



OVERALL MECHANICAL PLAN

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

SPECIAL NOTE TO CONTRACTORS:

PER THE MECHANICAL SPECIFICATIONS, THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS ARE REQUIRED TO COORDINATE THE POWER REQUIREMENTS FOR EACH PIECE OF EQUIPMENT REQUIRING POWER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT. PROOF OF THIS COORDINATION IS REQUIRED IN LETTER FORMAT (SEE EXAMPLE OF LETTER IN MECHANICAL SPECIFICATION SECTION "15050 GENERAL HVAC REQUIREMENTS") AND SHALL BE SENT TO THE PROJECT ENGINEERS/DESIGNERS PRIOR TO SUBMITTAL PHASE - NO EXCEPTIONS! IT IS THE SOLE RESPONSIBILITY OF THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS TO COORDINATE AND MAKE ANY CHANGES NECESSARY AT NO EXTRA COST - NO EXCEPTIONS!

GENERAL NOTES:

1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.
2. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ANY COST OF RE-SIZING OR RE-ROUTING DUCTWORK TO COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES SHALL BE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. ALL OUTSIDE AIR INTAKES SHALL BE MOUNTED AT LEAST 10'-0" AWAY FROM ALL EXHAUST RELIEFS AND PLUMBING VENTS.
4. CONTRACTOR SHALL VISIT THE SITE AND NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF ANY PROBLEMS OR DISCREPANCIES IN THE DRAWINGS BEFORE SUBMITTING A BID, ORDERING EQUIPMENT OR INSTALLATION OF EQUIPMENT AND ACCESSORIES.
5. MECHANICAL CONTRACTOR SHALL PROVIDE PROPER SERVICE CLEARANCE FOR EACH PIECE OF MECHANICAL EQUIPMENT REQUIRING SERVICE.
6. SEE LIFE SAFETY PLANS FOR ALL RATED WALLS, CEILINGS, ETC. PROVIDE FIRE DAMPERS AT ALL RATED WALLS AND CEILINGS.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS ON EACH PIECE OF GRADE MOUNTED MECHANICAL EQUIPMENT - SEE "OUTDOOR HEAT PUMP/CONDENSING UNIT DETAIL" FOR GRADE MOUNTED NOTES.

MECHANICAL NOTE LEGEND

1. PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED COOLING ONLY/ELECTRIC HEAT UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE HOT-GAS RE-HEAT FOR DEHUMIDIFICATION. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.
2. PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED HEAT PUMP UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.
3. ALL EXTERIOR DUCTWORK SHALL BE STANDARD GALVANIZED SHEET METAL LINED WITH 1" CLOSED CELL FOAM. WRAP EXTERIOR OF DUCT WITH 2" RIGID INSULATION BOARD (TOTAL INSULATION SHALL BE R-8 OR GREATER) AND COVER IN ALUMAGUARD - NOTE: PAINTING ALUMAGUARD VOIDS THE FACTORY WARRANTY.
4. PROVIDE WATER AND AIR TIGHT SEAL AT EXTERIOR WALL PENETRATIONS.
5. PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
6. PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM CONDENSING UNIT/HEAT PUMP WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT UNIT ON 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. COORDINATE EXACT LOCATION OF PAD AND UNIT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
7. REFRIGERANT PIPING AND CONTROL WIRING FROM OUTDOOR UNIT TO RELATED INDOOR UNIT. COVER EXTERIOR PIPING WITH ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 3'-0". STRAP CONDUIT AND REFRIGERANT PIPING TO ANCHORED UNISTRUT EVERY 3'-0" MAX.
8. PROVIDE AND INSTALL A 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
9. PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
10. PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT HEAT PUMP/CONDENSING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE.
11. PROVIDE AND INSTALL A SIDE-STREAM DEHUMIDIFIER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE AUXILIARY DRAIN PAN WITH FLOAT MICRO-SWITCH. HANG HIGH AS POSSIBLE IN SPACE. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
12. PROVIDE AND INSTALL A COMPLETE OPERATIONAL CEILING MOUNTED EXHAUST FAN WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE FACTORY SPEED CONTROLLER ON FAN.
13. PROVIDE AND INSTALL A COMPLETE OPERATIONAL WALL MOUNTED ELECTRIC HEATER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT HEATER FLUSH IN WALL. PROVIDE UNIT MOUNTED THERMOSTAT.
14. DUCTWORK SHALL RUN ABOVE MECHANICAL MEZZANINE IN ATTIC. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE MECHANICAL MEZZANINE, THRU AND BETWEEN STRUCTURE. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
15. DUCTWORK SHALL RUN BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
16. DUCTWORK SHALL RUN ABOVE CEILING AND BELOW STORM SHELTER CONCRETE LID. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE CEILING AND BELOW CONCRETE LID. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
17. DOUBLE-WALL INTERNALLY LINED ARCHITECTURALLY EXPOSED OVAL OR ROUND SPIRAL DUCTWORK. USE EXTREME CARE IN SHIPPING, HANDLING AND INSTALLATION. DAMAGED DUCTWORK WILL NOT BE ACCEPTED. DAMAGED DUCTWORK SHALL BE REPLACED AT MECHANICAL CONTRACTOR'S EXPENSE. RUN DUCTWORK HIGH AS POSSIBLE - MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ADJUST/ANGLE AIR DISTRIBUTION DEVICES SO THAT THE AIR DOES NOT BLOW DIRECTLY ON LIGHT FIXTURES, HANGERS, STRUCTURE, ETC.
18. PROVIDE AND INSTALL FABRIC DUCTWORK - DUCTWORK SHALL BE DUCTSOX VERONA WITH SKELECORE TENSIONING SYSTEM OR APPROVED EQUAL. DUCTWORK SHALL BE CONSISTENT DIAMETER. RUN DUCTWORK TIGHT TO BOTTOM OF STRUCTURE - MINIMUM MOUNTING HEIGHT SHALL BE 25'-0" A.F.F. (COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION). COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND ANGLE AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. OWNER HAS OPTION OF ORDERING FABRIC DUCT IN SCHOOL COLORS AND SCHOOL LOGO - MECHANICAL CONTRACTOR SHALL COORDINATE COLOR AND LOGO WITH OWNER PRIOR TO ORDERING AND INSTALLATION. PROVIDE TRIM FLANGE AT ALL WALL PENETRATIONS.
19. 16X16 OUTSIDE AIR DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO INTAKE HOOD ON ROOF.
20. 16X16 OUTSIDE AIR RELIEF DUCT UP THRU STORM SHELTER CONCRETE CAP WITH MOTORIZED DAMPER AND FIRE DAMPER UP TO RELIEF HOOD ON ROOF.
21. 10"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.
22. 12"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.
23. 6"R EXHAUST DUCT TO COOK MODEL "WC" WALL CAP OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON WALL CAP.
24. 6"R EXHAUST DUCT UP THRU ROOF TO COOK MODEL "RJ" ROOF JACK OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON ROOF JACK. RUN TO BACK-SIDE OF ROOF RIDGE.
25. DUCTWORK SHALL RUN UP EXTERIOR WALL AND COME IN HIGH.
26. RETURN AIR DUCTWORK SHALL RUN LOW ALONG FLOOR TO RELATED WALL MOUNTED RETURN AIR GRILLE. PROVIDE UNISTRUT DUCTWORK SUPPORTS UNDERNEATH RETURN AIR DUCTWORK.
27. SUPPLY AIR DUCTWORK SHALL COME IN LOW, RISE UP AND RUN HIGH.
28. RUN DUCTWORK UP THRU ROOF TO HOOD ON ROOF - PROVIDE ROOF CURB.
29. REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO RELATED INDOOR AIR HANDLING UNIT.
30. ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, TELEPHONE BACK-BOARDS, ETC.) - SEE ELECTRICAL PLANS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED SERVICE CLEARANCE TO ALL ELECTRICAL EQUIPMENT.

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

0 8' 16' 32'

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LATHAN ▪McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
OVERALL MECHANICAL PLAN

ALABAMA LICENSED PROFESSIONAL ENGINEER
James H. Morris
No. 16984
1/14/2026
JAMES H. MORRIS

PROJ. MGR.:	JBB/JHM
DRAWN:	JBB
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

M0.1

0 1" 2"

SPECIAL NOTE TO CONTRACTORS:

PER THE MECHANICAL SPECIFICATIONS, THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS ARE REQUIRED TO COORDINATE THE POWER REQUIREMENTS FOR EACH PIECE OF EQUIPMENT REQUIRING POWER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT. PROOF OF THIS COORDINATION IS REQUIRED IN LETTER FORMAT (SEE EXAMPLE OF LETTER IN MECHANICAL SPECIFICATION SECTION "15050 GENERAL HVAC REQUIREMENTS") AND SHALL BE SENT TO THE PROJECT ENGINEERS/DESIGNERS PRIOR TO SUBMITTAL PHASE - NO EXCEPTIONS! IT IS THE SOLE RESPONSIBILITY OF THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS TO COORDINATE AND MAKE ANY CHANGES NECESSARY AT NO EXTRA COST - NO EXCEPTIONS!

GENERAL NOTES:

1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.
2. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ANY COST OF RE-SIZING OR RE-ROUTING DUCTWORK TO COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES SHALL BE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. ALL OUTSIDE AIR INTAKES SHALL BE MOUNTED AT LEAST 10'-0" AWAY FROM ALL EXHAUST RELIEFS AND PLUMBING VENTS.
4. CONTRACTOR SHALL VISIT THE SITE AND NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF ANY PROBLEMS OR DISCREPANCIES IN THE DRAWINGS BEFORE SUBMITTING A BID, ORDERING EQUIPMENT OR INSTALLATION OF EQUIPMENT AND ACCESSORIES.
5. MECHANICAL CONTRACTOR SHALL PROVIDE PROPER SERVICE CLEARANCE FOR EACH PIECE OF MECHANICAL EQUIPMENT REQUIRING SERVICE.
6. SEE LIFE SAFETY PLANS FOR ALL RATED WALLS, CEILINGS, ETC. PROVIDE FIRE DAMPERS AT ALL RATED WALLS AND CEILINGS.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS ON EACH PIECE OF GRADE MOUNTED MECHANICAL EQUIPMENT - SEE "OUTDOOR HEAT PUMP/CONDENSING UNIT DETAIL" FOR GRADE MOUNTED NOTES.

NOTE:
PROVIDE SERVICE ACCESS TO EACH PIECE OF EQUIPMENT AS REQUIRED BY EQUIPMENT MANUFACTURER. OFFSET DUCTWORK AND PIPING AS REQUIRED TO PROVIDE EASY ACCESS AND **NO CLIMBING OVER DUCTWORK REQUIRED.**

NOTE:
ALL REFRIGERANT PIPING FROM OUTDOOR UNITS SHALL BE RUN ABOVE CEILING IN ATTIC TO ASSOCIATED INDOOR AHU'S LOCATED ON MECHANICAL MEZZANINE IN ATTIC.

NOTE:
ALL REFRIGERANT PIPING FROM OUTDOOR UNITS FOR STORM SHELTER AREA SHALL BE RUN ABOVE CEILING AND BELOW CONCRETE DECK TO ASSOCIATED INDOOR AHU'S LOCATED IN MECHANICAL A141 AND ELECTRICAL A133.

STORM SHELTER - DESIGNATED SAFE AREA.
MECHANICAL IN THIS AREA SHALL COMPLY WITH "2020 ICC-500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS" INDICATING THE FOLLOWING: **702.4.2 MECHANICAL VENTILATION - TORNADO SHELTERS THAT RELY ON MECHANICAL VENTILATION SHALL BE PROVIDED WITH THE MINIMUM MECHANICAL VENTILATION RATE OF REQUIRED OUTDOOR AIR AT A MINIMUM RATE OF 5 CUBIC FEET PER MINUTE PER OCCUPANT FOR THE DESIGN OCCUPANT CAPACITY - 1194 OCCUPANTS x 5 CFM/PERSON = 5970 CFM TOTAL.** THE MECHANICAL VENTILATION SYSTEM SHALL BE CONNECTED TO A STANDBY POWER SYSTEM - SEE ELECTRICAL PLANS. MINIMIZE THE AMOUNT OF WALL AND CEILING PENETRATIONS. COORDINATE SAFE AREA LOCATIONS WITH ARCHITECTURAL LIFE SAFETY PLANS.

PROVIDE 3'-0" BETWEEN OHP-4 & 5 FOR ELECTRICAL PANEL CLEARANCE. PROVIDE HEAVY DUTY COVER (16-GA. METAL COVER WITH 2" ANGLE IRON FOR SUPPORT) OVER REFRIGERANT LINES FOR PROTECTION AGAINST STEPPING ON LINES WHILE SERVICING THE ELECTRICAL PANEL.

NOTE:
SEE MECHANICAL STORM SHELTER PLAN FOR ROOF MOUNTED HOODS IN THIS AREA.

NOTE:
SEE MECHANICAL STORM SHELTER PLAN FOR STORM SHELTER VENTILATION TRANSFERS - THESE TRANSFERS WILL ALSO BE USED FOR OUTSIDE AIR RELIEF TRANSFER. OUTSIDE AIR RELIEF WILL TRANSFER FROM CLASSROOMS TO MECHANICAL A141 AND UP INTO 16X16 OUTSIDE AIR RELIEF DUCT UP THRU STORM SHELTER CONCRETE CAP WITH MOTORIZED DAMPER AND FIRE DAMPER UP TO RELIEF HOOD ON ROOF.

STORM SHELTER (SEE MECHANICAL STORM SHELTER PLAN)

STORM SHELTER (SEE MECHANICAL STORM SHELTER PLAN)

MECHANICAL PLAN - PART "A"

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

MECHANICAL NOTE LEGEND

① PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED COOLING ONLY/ELECTRIC HEAT UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE HOT-GAS RE-HEAT FOR DEHUMIDIFICATION. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.

② PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED HEAT PUMP UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.

③ ALL EXTERIOR DUCTWORK SHALL BE STANDARD GALVANIZED SHEET METAL LINED WITH 1" CLOSED CELL FOAM. WRAP EXTERIOR OF DUCT WITH 2" RIGID INSULATION BOARD (TOTAL INSULATION SHALL BE R-8 OR GREATER) AND COVER IN ALUMAGUARD - NOTE: PAINTING ALUMAGUARD VOIDS THE FACTORY WARRANTY.

④ PROVIDE WATER AND AIR TIGHT SEAL AT EXTERIOR WALL PENETRATIONS.

⑤ PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.

⑥ PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM CONDENSING UNIT/HEAT PUMP WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT UNIT ON 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. COORDINATE EXACT LOCATION OF PAD AND UNIT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

⑦ REFRIGERANT PIPING AND CONTROL WIRING FROM OUTDOOR UNIT TO RELATED INDOOR UNIT. COVER EXTERIOR PIPING WITH ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 3'-0". STRAP CONDUIT AND REFRIGERANT PIPING TO ANCHORED UNISTRUT EVERY 3'-0" MAX.

⑧ PROVIDE AND INSTALL A 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

⑨ PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.

⑩ PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT HEAT PUMP/CONDENSING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE.

⑪ PROVIDE AND INSTALL A SIDE-STREAM DEHUMIDIFIER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE AUXILIARY DRAIN PAN WITH FLOAT MICRO-SWITCH. HANG HIGH AS POSSIBLE IN SPACE. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.

⑫ PROVIDE AND INSTALL A COMPLETE OPERATIONAL CEILING MOUNTED EXHAUST FAN WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE FACTORY SPEED CONTROLLER ON FAN.

⑬ PROVIDE AND INSTALL A COMPLETE OPERATIONAL WALL MOUNTED ELECTRIC HEATER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT HEATER FLUSH IN WALL. PROVIDE UNIT MOUNTED THERMOSTAT.

⑭ DUCTWORK SHALL RUN ABOVE MECHANICAL MEZZANINE IN ATTIC. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE MECHANICAL MEZZANINE, THRU AND BETWEEN STRUCTURE. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.

⑮ DUCTWORK SHALL RUN BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.

⑯ DUCTWORK SHALL RUN ABOVE CEILING AND BELOW STORM SHELTER CONCRETE LID. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE CEILING AND BELOW CONCRETE LID. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.

⑰ DOUBLE-WALL INTERNALLY LINED ARCHITECTURALLY EXPOSED OVAL OR ROUND SPIRAL DUCTWORK. USE EXTREME CARE IN SHIPPING, HANDLING AND INSTALLATION. DAMAGED DUCTWORK WILL NOT BE ACCEPTED. DAMAGED DUCTWORK SHALL BE REPLACED AT MECHANICAL CONTRACTOR'S EXPENSE. RUN DUCTWORK HIGH AS POSSIBLE - MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ADJUST/ANGLE AIR DISTRIBUTION DEVICES SO THAT THE AIR DOES NOT BLOW DIRECTLY ON LIGHT FIXTURES, HANGERS, STRUCTURE, ETC.

⑱ PROVIDE AND INSTALL FABRIC DUCTWORK - DUCTWORK SHALL BE DUCTSOX VERONA WITH SKELECORE TENSIONING SYSTEM OR APPROVED EQUAL. DUCTWORK SHALL BE CONSISTENT DIAMETER. RUN DUCTWORK TIGHT TO BOTTOM OF STRUCTURE - MINIMUM MOUNTING HEIGHT SHALL BE 25'-0" A.F.F. (COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION). COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND ANGLE AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. OWNER HAS OPTION OF ORDERING FABRIC DUCT IN SCHOOL COLORS AND SCHOOL LOGO - MECHANICAL CONTRACTOR SHALL COORDINATE COLOR AND LOGO WITH OWNER PRIOR TO ORDERING AND INSTALLATION. PROVIDE TRIM FLANGE AT ALL WALL PENETRATIONS.

⑲ 16X16 OUTSIDE AIR DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO INTAKE HOOD ON ROOF.

⑳ 16X16 OUTSIDE AIR RELIEF DUCT UP THRU STORM SHELTER CONCRETE CAP WITH MOTORIZED DAMPER AND FIRE DAMPER UP TO RELIEF HOOD ON ROOF.

㉑ 10"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.

㉒ 12"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.

㉓ 6"R EXHAUST DUCT TO COOK MODEL "WC" WALL CAP OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON WALL CAP.

㉔ 6"R EXHAUST DUCT UP THRU ROOF TO COOK MODEL "RJ" ROOF JACK OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON ROOF JACK. RUN TO BACK-SIDE OF ROOF RIDGE.

㉕ DUCTWORK SHALL RUN UP EXTERIOR WALL AND COME IN HIGH.

㉖ RETURN AIR DUCTWORK SHALL RUN LOW ALONG FLOOR TO RELATED WALL MOUNTED RETURN AIR GRILLE. PROVIDE UNISTRUT DUCTWORK SUPPORTS UNDERNEATH RETURN AIR DUCTWORK.

㉗ SUPPLY AIR DUCTWORK SHALL COME IN LOW, RISE UP AND RUN HIGH.

㉘ RUN DUCTWORK UP THRU ROOF TO HOOD ON ROOF - PROVIDE ROOF CURB.

㉙ REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO RELATED INDOOR AIR HANDLING UNIT.

㉚ ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, TELEPHONE BACK-BOARDS, ETC.) - SEE ELECTRICAL PLANS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED SERVICE CLEARANCE TO ALL ELECTRICAL EQUIPMENT.

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
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FOR THE
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ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL PLAN - PART "A"

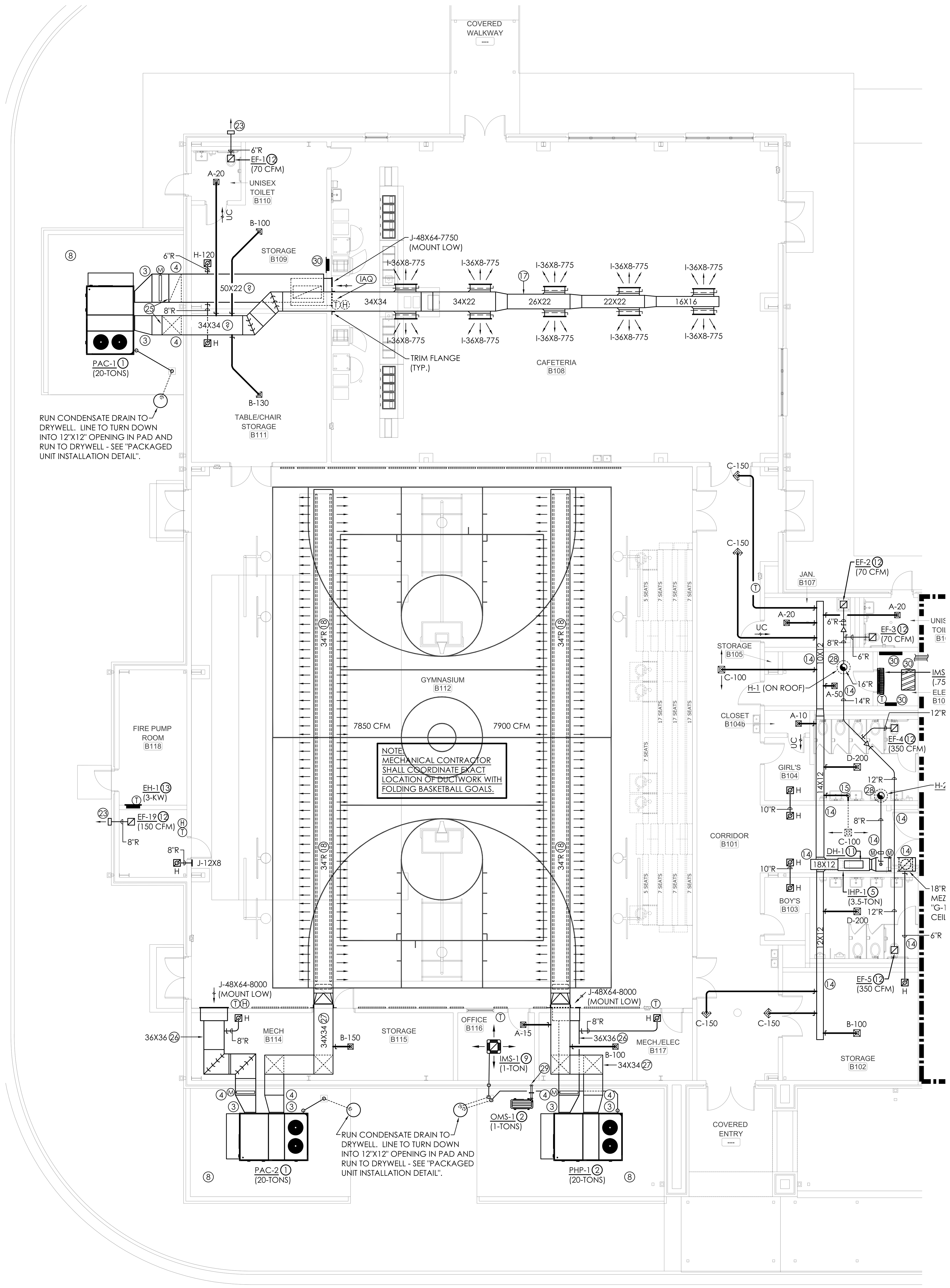
PROJ. MGR.:	JBB/JHM
DRAWN:	JBB
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

M1.1

0 1" 2"



MECHANICAL PLAN - PART "B"

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

SPECIAL NOTE TO CONTRACTORS:

PER THE MECHANICAL SPECIFICATIONS, THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS ARE REQUIRED TO COORDINATE THE POWER REQUIREMENTS FOR EACH PIECE OF EQUIPMENT REQUIRING POWER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT. PROOF OF THIS COORDINATION IS REQUIRED IN LETTER FORMAT (SEE EXAMPLE OF LETTER IN MECHANICAL SPECIFICATION SECTION "15050 GENERAL HVAC REQUIREMENTS") AND SHALL BE SENT TO THE PROJECT ENGINEERS/DESIGNERS PRIOR TO SUBMITTAL PHASE - NO EXCEPTIONS! IT IS THE SOLE RESPONSIBILITY OF THE PLUMBING/MECHANICAL/ELECTRICAL CONTRACTORS TO COORDINATE AND MAKE ANY CHANGES NECESSARY AT NO EXTRA COST - NO EXCEPTIONS!

GENERAL NOTES:

1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.
2. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ANY COST OF RE-SIZING OR RE-ROUTING DUCTWORK TO COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES SHALL BE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. ALL OUTSIDE AIR INTAKES SHALL BE MOUNTED AT LEAST 10'-0" AWAY FROM ALL EXHAUST RELIEFS AND PLUMBING VENTS.
4. CONTRACTOR SHALL VISIT THE SITE AND NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF ANY PROBLEMS OR DISCREPANCIES IN THE DRAWINGS BEFORE SUBMITTING A BID, ORDERING EQUIPMENT OR INSTALLATION OF EQUIPMENT AND ACCESSORIES.
5. MECHANICAL CONTRACTOR SHALL PROVIDE PROPER SERVICE CLEARANCE FOR EACH PIECE OF MECHANICAL EQUIPMENT REQUIRING SERVICE.
6. SEE LIFE SAFETY PLANS FOR ALL RATED WALLS, CEILINGS, ETC. PROVIDE FIRE DAMPERS AT ALL RATED WALLS AND CEILINGS.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS ON EACH PIECE OF GRADE MOUNTED MECHANICAL EQUIPMENT - SEE "OUTDOOR HEAT PUMP/CONDENSING UNIT DETAIL" FOR GRADE MOUNTED NOTES.

MECHANICAL NOTE LEGEND

(1) PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED COOLING ONLY/ELECTRIC HEAT UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE HOT-GAS RE-HEAT FOR DEHUMIDIFICATION. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.
(2) PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED HEAT PUMP UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT. PROVIDE TWO 12 GA. GALVANIZED SHEET METAL STRAPS ANCHORED WITH 3/8" DIA. CONCRETE WEDGE ANCHOR FOR EQUIPMENT WIND RESTRAINT.
(3) ALL EXTERIOR DUCTWORK SHALL BE STANDARD GALVANIZED SHEET METAL LINED WITH 1" CLOSED CELL FOAM. WRAP EXTERIOR OF DUCT WITH 2" RIGID INSULATION BOARD (TOTAL INSULATION SHALL BE R-8 OR GREATER) AND COVER IN ALUMAGUARD - NOTE: PAINTING ALUMAGUARD VOIDS THE FACTORY WARRANTY.
(4) PROVIDE WATER AND AIR TIGHT SEAL AT EXTERIOR WALL PENETRATIONS.
(5) PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
(6) PROVIDE AND INSTALL A COMPLETE OPERATIONAL SPLIT SYSTEM CONDENSING UNIT/HEAT PUMP WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT UNIT ON 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. COORDINATE EXACT LOCATION OF PAD AND UNIT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
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(9) PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT INDOOR AIR HANDLING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
(10) PROVIDE AND INSTALL A COMPLETE OPERATIONAL MINI-SPLIT HEAT PUMP/CONDENSING UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. PROVIDE PROPER REQUIRED SERVICE CLEARANCE FOR MAINTENANCE.
(11) PROVIDE AND INSTALL A SIDE-STREAM DEHUMIDIFIER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE AUXILIARY DRAIN PAN WITH FLOAT MICRO-SWITCH. HANG HIGH AS POSSIBLE IN SPACE. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. RUN CONDENSATE TO NEAREST DRAIN - SEE PLUMBING PLANS - SIZE CONDENSATE DRAIN LINES PER MANUFACTURER'S RECOMMENDATIONS PER SIZE OF UNIT.
(12) PROVIDE AND INSTALL A COMPLETE OPERATIONAL CEILING MOUNTED EXHAUST FAN WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. PROVIDE FACTORY SPEED CONTROLLER ON FAN.
(13) PROVIDE AND INSTALL A COMPLETE OPERATIONAL WALL MOUNTED ELECTRIC HEATER WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT HEATER FLUSH IN WALL. PROVIDE UNIT MOUNTED THERMOSTAT.
(14) DUCTWORK SHALL RUN ABOVE MECHANICAL MEZZANINE IN ATTIC. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE MECHANICAL MEZZANINE, THRU AND BETWEEN STRUCTURE. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
(15) DUCTWORK SHALL RUN BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT BELOW MECHANICAL MEZZANINE AND ABOVE CEILING. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
(16) DUCTWORK SHALL RUN ABOVE CEILING AND BELOW STORM SHELTER CONCRETE LID. RE-ROUTE, RE-SHAPE AND RE-SIZE DUCTWORK AS REQUIRED TO FIT ABOVE CEILING AND BELOW CONCRETE LID. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT.
(17) DOUBLE-WALL INTERNALLY LINED ARCHITECTURALLY EXPOSED OVAL OR ROUND SPIRAL DUCTWORK. USE EXTREME CARE IN SHIPPING, HANDLING AND INSTALLATION. DAMAGED DUCTWORK WILL NOT BE ACCEPTED. DAMAGED DUCTWORK SHALL BE REPLACED AT MECHANICAL CONTRACTOR'S EXPENSE. RUN DUCTWORK HIGH AS POSSIBLE - MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ADJUST/ANGLE AIR DISTRIBUTION DEVICES SO THAT THE AIR DOES NOT BLOW DIRECTLY ON LIGHT FIXTURES, HANGERS, STRUCTURE, ETC.
(18) PROVIDE AND INSTALL FABRIC DUCTWORK - DUCTWORK SHALL BE DUCTSOX VERONA WITH SKELECORE TENSIONING SYSTEM OR APPROVED EQUAL. DUCTWORK SHALL BE CONSISTENT DIAMETER. RUN DUCTWORK TIGHT TO BOTTOM OF STRUCTURE - MINIMUM MOUNTING HEIGHT SHALL BE 25'-0" A.F.F. (COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION). COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND ANGLE AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. OWNER HAS OPTION OF ORDERING FABRIC DUCT IN SCHOOL COLORS AND SCHOOL LOGO - MECHANICAL CONTRACTOR SHALL COORDINATE COLOR AND LOGO WITH OWNER PRIOR TO ORDERING AND INSTALLATION. PROVIDE TRIM FLANGE AT ALL WALL PENETRATIONS.
(19) 16X16 OUTSIDE AIR DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO INTAKE HOOD ON ROOF.
(20) 16X16 OUTSIDE AIR RELIEF DUCT UP THRU STORM SHELTER CONCRETE CAP WITH MOTORIZED DAMPER AND FIRE DAMPER UP TO RELIEF HOOD ON ROOF.
(21) 10"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.
(22) 12"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.
(23) 6"R EXHAUST DUCT TO COOK MODEL "WC" WALL CAP OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON WALL CAP.
(24) 6"R EXHAUST DUCT UP THRU ROOF TO COOK MODEL "RJ" ROOF JACK OR APPROVED EQUAL. PROVIDE DARK BRONZE BAKED ENAMEL FINISH ON ROOF JACK. RUN TO BACK-SIDE OF ROOF RIDGE.
(25) DUCTWORK SHALL RUN UP EXTERIOR WALL AND COME IN HIGH.
(26) RETURN AIR DUCTWORK SHALL RUN LOW ALONG FLOOR TO RELATED WALL MOUNTED RETURN AIR GRILLE. PROVIDE UNISTRUT DUCTWORK SUPPORTS UNDERNEATH RETURN AIR DUCTWORK.
(27) SUPPLY AIR DUCTWORK SHALL COME IN LOW, RISE UP AND RUN HIGH.
(28) RUN DUCTWORK UP THRU ROOF TO HOOD ON ROOF - PROVIDE ROOF CURB.
(29) REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO RELATED INDOOR AIR HANDLING UNIT.
(30) ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, TELEPHONE BACK-BOARDS, ETC.) - SEE ELECTRICAL PLANS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED SERVICE CLEARANCE TO ALL ELECTRICAL EQUIPMENT.

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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PROJECT NO: 25-148

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL PLAN - PART "B"

PROJ. MGR.: JBB/JHM
DRAWN: JBB
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
M1.2

STORM SHELTER MAKE-UP AIR/RELIEF (EXHAUST) FAN SCHEDULE

SYMBOL	CFM	EXT. SP H_2O	MAX. RPM	SONES	POWER	ELEC.	REMARKS	INTERLOCK WITH	LOREN COOK #
SSEF-1	2400	1.25	1563	12.9	1.5 H.P.	480/3/60	1	BATT. PACK/INVERTER (SEE ELEC. PLANS)	180SQNH17D
SSMUA-1	2400	1.25	1563	12.9	1.5 H.P.	480/3/60	1	BATT. PACK/INVERTER (SEE ELEC. PLANS)	180SQNH17D
SSEF-2	3570	1.25	1333	16.0	1.5 H.P.	480/3/60	1	BATT. PACK/INVERTER (SEE ELEC. PLANS)	180SQN11D
SSMUA-2	3570	1.25	1333	16.0	1.5 H.P.	480/3/60	1	BATT. PACK/INVERTER (SEE ELEC. PLANS)	180SQN11D

SCHEDULE NOTES:
1. COOK MODEL SQND BLOWER FAN OR APPROVED EQUAL. PROVIDE BACK-DRAFT DAMPER, SPEED CONTROLLER, DIRECT DRIVE MOTOR, FACTORY MOUNTED VOLTAGE TRANSFORMER AND FACTORY DISCONNECT SWITCH.

STORM SHELTER LOUVER SCHEDULE

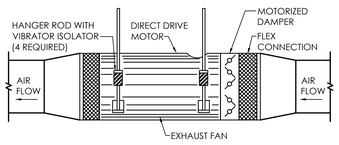
SYMBOL	TYPE	SIZE	CFM	MIN. SQ. FEET FREE AREA	% FREE AREA	FREE AREA (FPM)	PRESS. DROP (W.G.)	RUSKIN MODEL	REMARKS
SSL-1	R	42"X42"	2400	6.0	49	400	.05	XP500	1
SSL-2	R	54"X54"	3570	9.63	48	371	.04	XP500	1
SSL-3	I	54"X54"	3570	9.63	48	371	.05	XP500	1
SSL-4	I	42"X42"	2400	6.0	49	400	.05	XP500	1
SSL-5	R	16"X16"	140	.6	34	233	.02	XP500	1
SSL-6	R	16"X16"	210	.6	34	349	.04	XP500	1
SSL-7	R	28"X28"	840	2.49	46	337	.03	XP500	1
SSL-8	I	28"X28"	840	2.49	46	337	.04	XP500	1

SCHEDULE NOTES:
I = INTAKE, R = RELIEF
1. RUSKIN MODEL XP500 FEMA LOUVER OR APPROVED EQUAL. MOUNTED DIRECTLY BEHIND ARCHITECTURAL LOUVER (SEE ARCHITECTURAL PLANS). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE "EXTERIOR WALL LOUVER AT STORM SHELTER DETAIL". PROVIDE MILL FINISH.

HOOD SCHEDULE

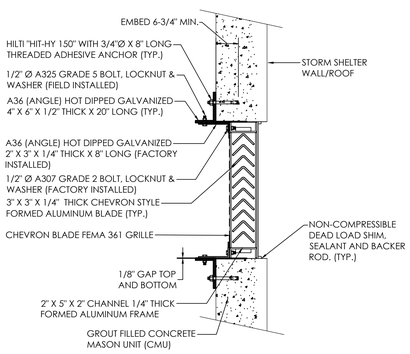
SYMBOL	TYPE	EXT. SP H_2O	LOREN COOK MODEL	CFM	REMARKS	ACTUAL DIMENSIONS
SSH-1	R	.05	36X36 GR	2400	1	68x63x22.76
SSH-2	R	.05	36X42 GR	3570	1	66x75x23.8
SSH-3	I	.05	36X42 GI	3570	1	66x75x23.8
SSH-4	I	.05	36X36 GI	2400	1	68x63x22.76
SSH-5	R	.05	12 PR	140	2	27.75x9
SSH-6	R	.05	12 PR	210	2	27.75x9
SSH-7	R	.05	16X24 GR	840	1	35x39x13.46
SSH-8	I	.05	16X24 GI	840	1	35x39x13.46

SCHEDULE NOTES:
I = INTAKE, R = RELIEF
1. BASED ON COOK MODEL GI/GR OR APPROVED EQUAL BY PENN OR GREENHECK. PROVIDE BIRDSCREEN AND 14" TALL ROOF CURB. PROVIDE FACTORY DARK BRONZE BAKED ENAMEL FINISH ON CURB AND HOOD.
2. BASED ON COOK MODEL PRF OR APPROVED EQUAL BY PENN OR GREENHECK. PROVIDE BIRDSCREEN, LOW PROFILE CURB AND FLASHING FLANGE. PROVIDE FACTORY DARK BRONZE BAKED ENAMEL FINISH ON CURB AND HOOD.



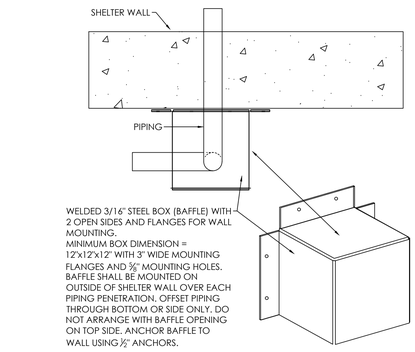
INLINE EXHAUST FAN DETAIL

NO SCALE TYP. SSEF-1,2 AND SSMUA-1,2



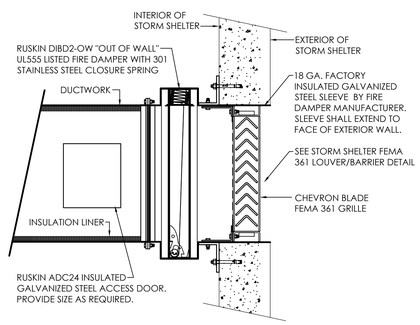
STORM SHELTER FEMA 361 LOUVER/BARRIER DETAIL

NO SCALE



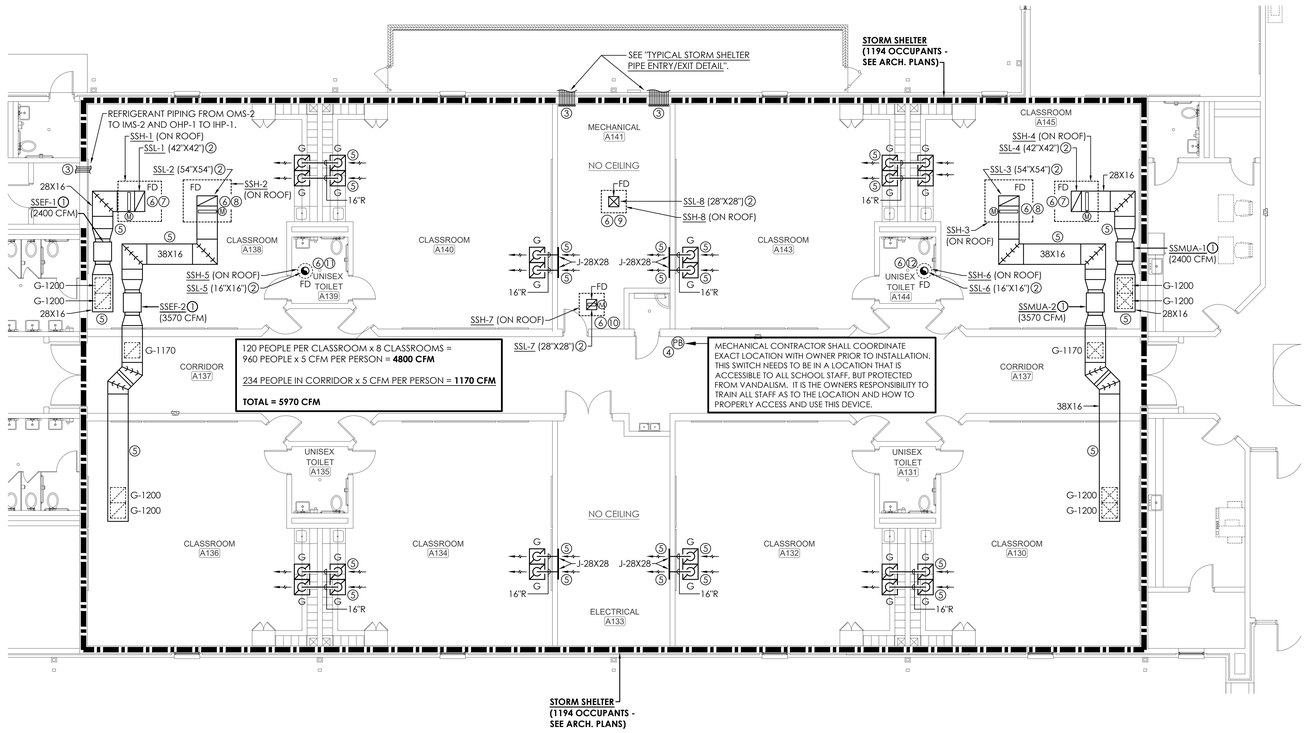
TYPICAL STORM SHELTER PIPE ENTRY/EXIT DETAIL

NO SCALE



STORM SHELTER FEMA 361 RATED PENETRATION DETAIL

NO SCALE SHALL APPLY TO VERTICAL AND HORIZONTAL CONFIGURATION.



MECHANICAL STORM SHELTER PLAN

SCALE: 1/18"=1'-0"

STORM SHELTER NOTES: (THIS SHEET ONLY)

STORM SHELTER FRESH AIR OPENING CALCULATION PER ICC-500 "STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS - 2020" - CHAPTER 7 - SECTION 702 TORNADO SHELTERS - PARAGRAPH 703.1.1 MECHANICAL VENTILATION

MINIMUM VENTILATION RATE OF OUTSIDE AIR SHALL BE FROM BUILDING CODES FOR NORMAL USE OF THE SPACE.

1. REDUCE DISTANCE BETWEEN HANGERS IN STORM SHELTER 25% TO INCREASE SUPPORT. THIS INCLUDES DUCTWORK.
2. PROVIDE STORM SHELTER LOUVER/BARRIER AT ALL PENETRATIONS OF STORM SHELTER WALLS AND CEILINGS/DECKS.
3. ICC500 FEMA 361 LOUVER/BARRIERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.

NOTE:
PROVIDE FIRE DAMPER ACCESS PANELS IN BOTH STORM SHELTER AND VENTILATION DUCTS.

STORM SHELTER - DESIGNATED SAFE AREA.
MECHANICAL IN THIS AREA SHALL COMPLY WITH "2020 ICC-500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS" INDICATING THE FOLLOWING: **702.4.2 MECHANICAL VENTILATION - TORNADO SHELTERS THAT RELY ON MECHANICAL VENTILATION SHALL BE PROVIDED WITH THE MINIMUM MECHANICAL VENTILATION RATE OF REQUIRED OUTDOOR AIR AT A MINIMUM RATE OF 5 CUBIC FEET PER MINUTE PER OCCUPANT FOR THE DESIGN OCCUPANT CAPACITY - 1194 OCCUPANTS x 5 CFM/PERSON = 5970 CFM TOTAL.** THE MECHANICAL VENTILATION SYSTEM SHALL BE CONNECTED TO A STANDBY POWER SYSTEM - SEE ELECTRICAL PLANS. MINIMIZE THE AMOUNT OF WALL AND CEILING PENETRATIONS. COORDINATE SAFE AREA LOCATIONS WITH ARCHITECTURAL LIFE SAFETY PLANS.

MECHANICAL STORM SHELTER NOTE LEGEND

1. PROVIDE AND INSTALL A COMPLETE OPERATIONAL IN-LINE BLOWER FAN FOR EMERGENCY STORM SHELTER VENTILATION (INTAKE/RELIEF). PROVIDE MOTORIZED DAMPERS AT STORM SHELTER INTAKE/RELIEF LOUVER. BLOWER FANS AND MOTORIZED DAMPERS ARE POWERED BY BATTERY PACK (INVERTER) - SEE ELECTRICAL PLANS.
2. SEE "STORM SHELTER FEMA 361 RATED PENETRATION DETAIL" AND "STORM SHELTER FEMA 361 LOUVER/BARRIER DETAIL" (THIS SHEET) FOR STORM SHELTER PENETRATIONS. LOUVER/BARRIERS SHALL COMPLY WITH FEMA 361 DESIGN AND CONSTRUCTION FOR COMMUNITY SHELTERS - ZONE IV CRITERIA FOR TORNADO'S AND HURRICANES.
3. SEE "TYPICAL STORM SHELTER PIPE/CONDUIT ENTRY/EXIT DETAIL" FOR PIPING/CONDUIT PENETRATIONS OF STORM SHELTER WALLS.
4. PROVIDE AND INSTALL A WALL MOUNTED EMERGENCY STORM SHELTER PUSH-BUTTON "ON/OFF" SWITCH WITH A SIGN NEXT TO THE SWITCH INDICATING THE FOLLOWING: "THIS SWITCH TO BE IN "OFF" POSITION DURING NORMAL OPERATION AND SHALL BE IN THE "ON" POSITION ONLY DURING AN EMERGENCY." THIS SWITCH SHALL CONTROL THE EMERGENCY MAKE-UP AIR FAN, EMERGENCY RELIEF (EXHAUST) FAN AND THE MOTORIZED DAMPER ON THE RELATED STORM SHELTER LOUVERS. THIS SWITCH IS POWERED BY BATTERY PACK (INVERTER) - SEE ELECTRICAL PLANS. PROVIDE SIGNAGE NEXT TO SWITCH INDICATING FUNCTION OF SWITCH - SEE ARCHITECTURAL PLANS FOR SWITCH SIGNAGE.
5. DUCTWORK SHALL BE LOCATED BELOW STORM SHELTER DECK AND ABOVE LAY-IN CEILING.
6. DUCTWORK SHALL TRANSITION TO SIZE OF STORM SHELTER FEMA LOUVER, THEN TRANSITION BACK TO ORIGINAL DUCT SIZE PRIOR TO CONTINUING UP THRU ROOF TO HOOD.
7. 28X16 STORM SHELTER VENTILATION DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO RELIEF HOOD ON ROOF.
8. 38X16 STORM SHELTER VENTILATION DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO RELIEF HOOD ON ROOF.
9. 16X16 OUTSIDE AIR DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER UP TO INTAKE HOOD ON ROOF.
10. 16X16 OUTSIDE AIR RELIEF DUCT UP THRU STORM SHELTER CONCRETE CAP WITH MOTORIZED DAMPER AND FIRE DAMPER UP TO RELIEF HOOD ON ROOF.
11. 10"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.
12. 12"R EXHAUST DUCT UP THRU STORM SHELTER CONCRETE CAP WITH FIRE DAMPER AND UP TO RELIEF HOOD ON ROOF.

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

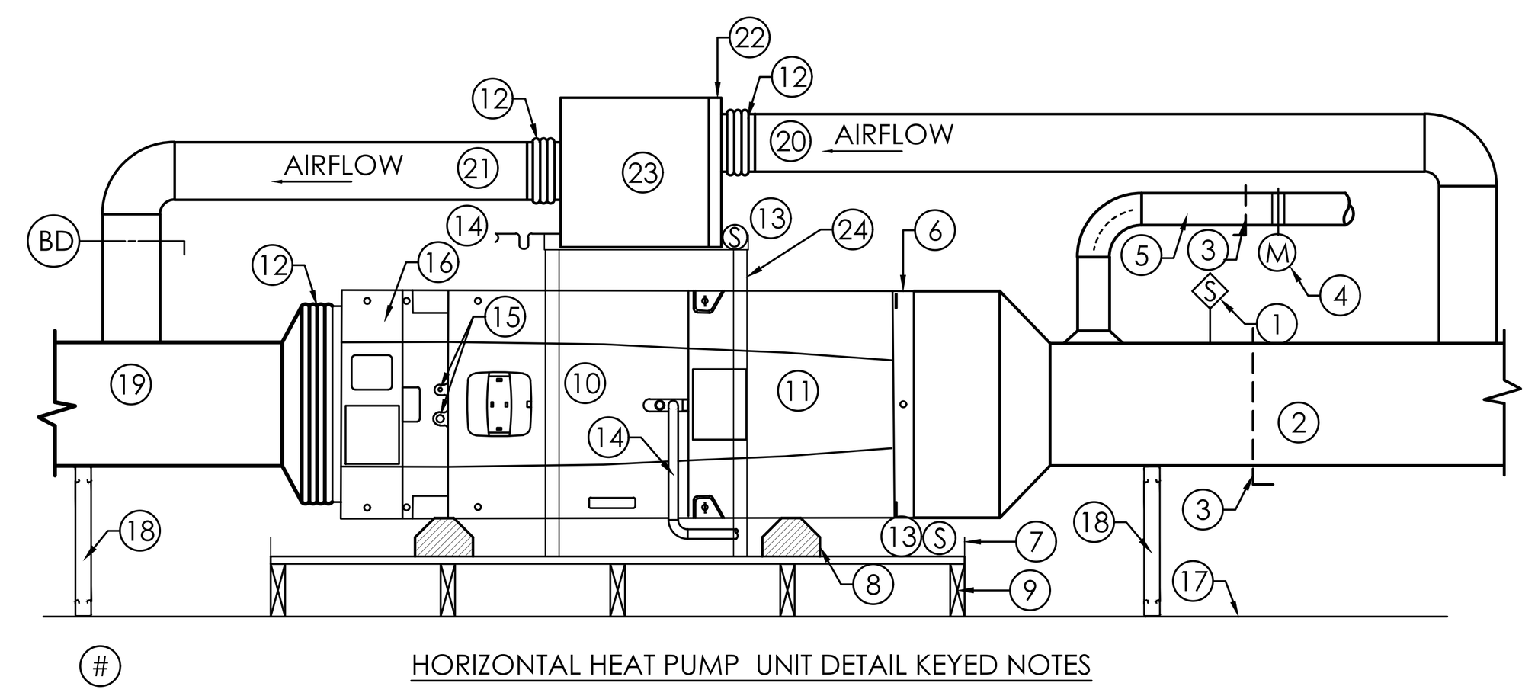
SHEET TITLE:
MECHANICAL STORM SHELTER PLAN

ALABAMA JAMES H. MORRIS No. 19984 PROFESSIONAL ENGINEER

PROJ. MGR.:	JBB/JHM
DRAWN:	JBB
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304
SHEET NO:
M2.1

0 1" 2"

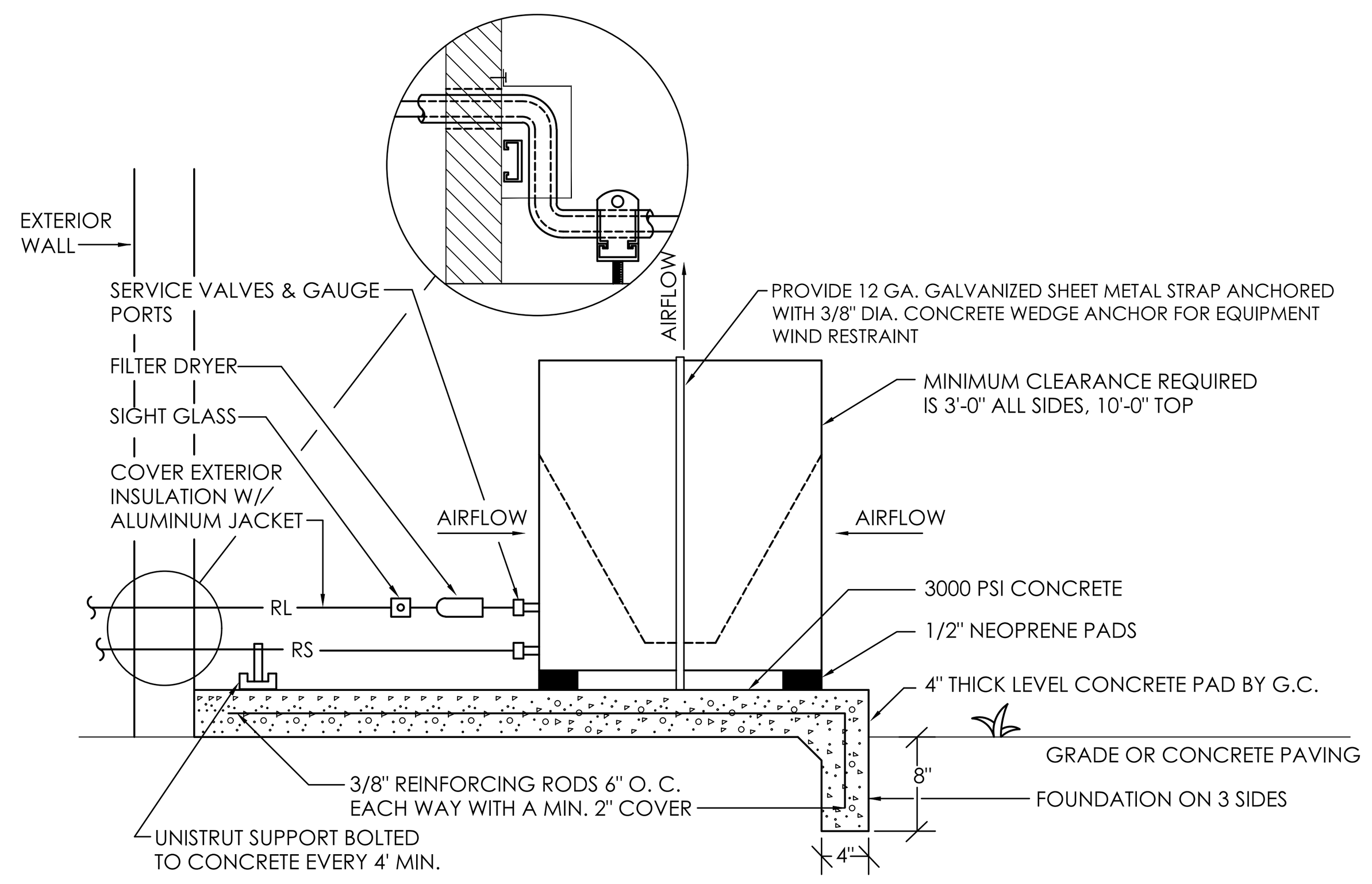


HORIZONTAL HEAT PUMP UNIT DETAIL KEYED NOTES

1. SMOKE DETECTOR
2. RETURN AIR DUCTWORK
3. MANUAL VOLUME DAMPER
4. MOTORIZED DAMPER
5. OUTDOOR AIR DUCTWORK
6. 1" PLEATED FILTER SECTION. E-Z FILTER WITH MERV 8 FILTER.
7. 20 GA. AUXILIARY SHEET METAL DRAIN PAN WITH SOLDERED CORNERS. PAN SHALL EXTEND UNDER COMPLETE UNIT.
8. DURA-BLOK MODEL DBM SUPPORTS UNDER UNIT.
9. 2"X6" PRESSURE TREATED WOOD FRAMING WITH 3/4" PLYWOOD PLATFORM.
10. DX COOLING COIL SECTION
11. BLOWER SECTION
12. FLEXIBLE CONNECTION. MIN. 6" SLACK.
13. FLOAT MICROSWITCH. SWITCH SHALL SHUT OFF IF WATER IS DETECTED.
14. 3/4" INSULATED CONDENSATE DRAIN LINE W/4" P-TRAP TO DRAIN. DO NOT BLOCK SERVICE ACCESS WITH DRAIN PIPING.
15. VAPOR & LIQUID LINES TO OUTDOOR UNIT.
16. ELECTRIC HEATER AND POWER WIRING.
17. MEZZANINE STRUCTURE.
18. 1-5/8" X 12 GA. UNISTRUT DUCTWORK SUPPORT. SECURE TO DUCTWORK AND MEZZANINE STRUCTURE.
19. SUPPLY AR DUCTWORK.
20. 10"Ø INLET.
21. 10"Ø OUTLET.
22. PROVIDE SIDE ACCESS FOR FILTER.
23. APRILAIRE DEHUMIDIFIER OR APPROVED EQUAL. PROVIDE DEDICATED ELECTRICAL CIRCUIT.
24. ANGLE IRON SUPPORT FRAME AND DRAIN PAN WITH MICROSWITCH.

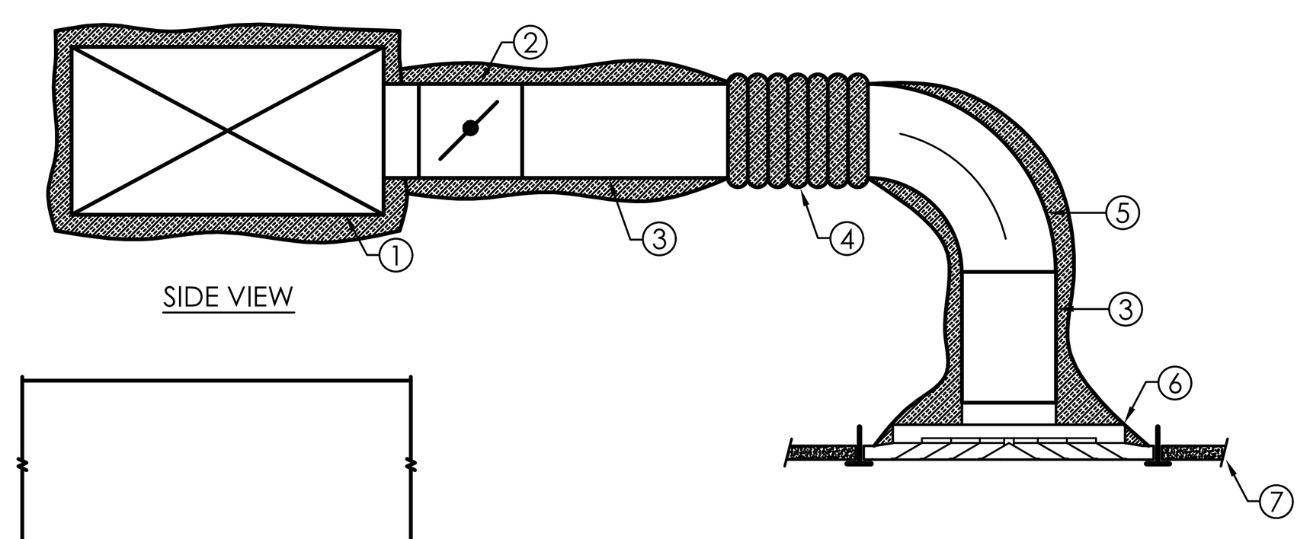
HORIZONTAL HEAT PUMP UNIT DETAIL

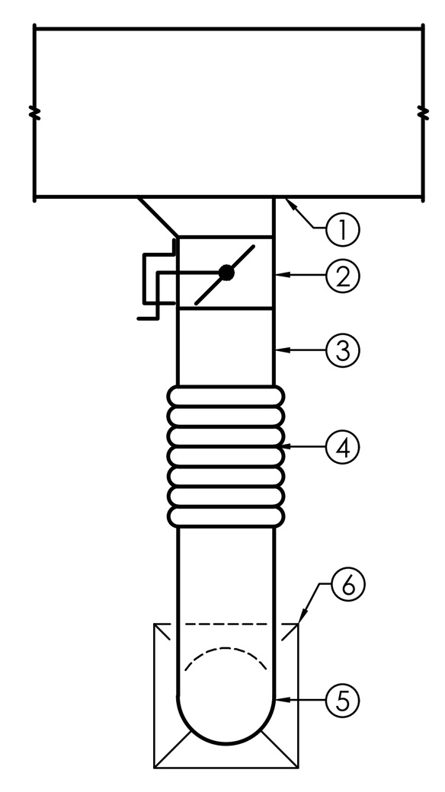
NO SCALE TYP. IHP-1 AND IHP-10 THRU IHP-19 - DH-1 AND DH-10 THRU DH-19



OUTDOOR HEAT PUMP/CONDENSING UNIT DETAIL

NO SCALE TYP. FOR ALL GRADE MOUNTED HEAT PUMP/CONDENSING UNITS



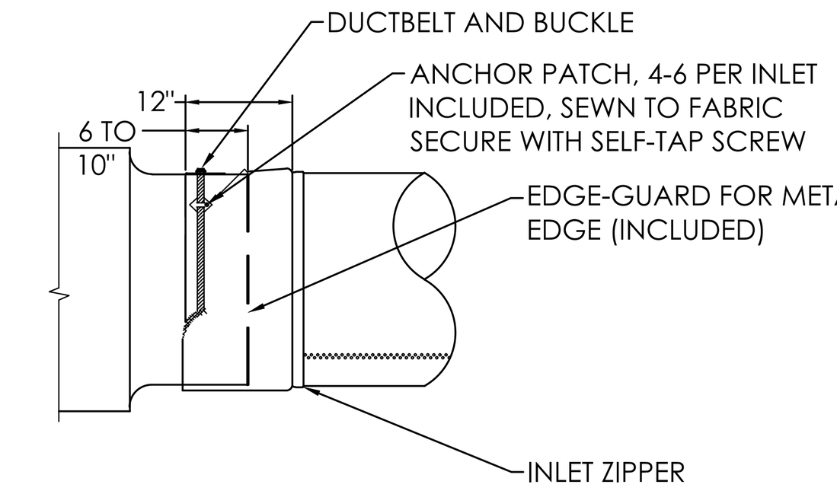


DIFFUSER RUNOUT LEGEND:

1. INSULATED MIN. 24 ga. SHEETMETAL TRUNK DUCT
2. ROUND TAKEOFF WITH 1" WIDE SCREW FLANGE, GASKET RING AND 2" DAMPER HANDLE WITH STANDOFF.
3. INSULATED MIN. 28 ga. min. RIGID ROUND DUCTWORK.
4. FLEXIBLE DUCTWORK R-8 (CLASS 1) - (4' MAX.).
5. INSULATED FULL RADIUS RIGID ELBOW
6. ALUMINUM CEILING MOUNTED AIR DIFFUSER WITH OPPOSED BLADE DAMPER - INSULATE ENTIRE TOP OF DIFFUSER
7. LAY-IN CEILING AND GRID BY OTHERS.

DIFFUSER RUNOUT DETAIL

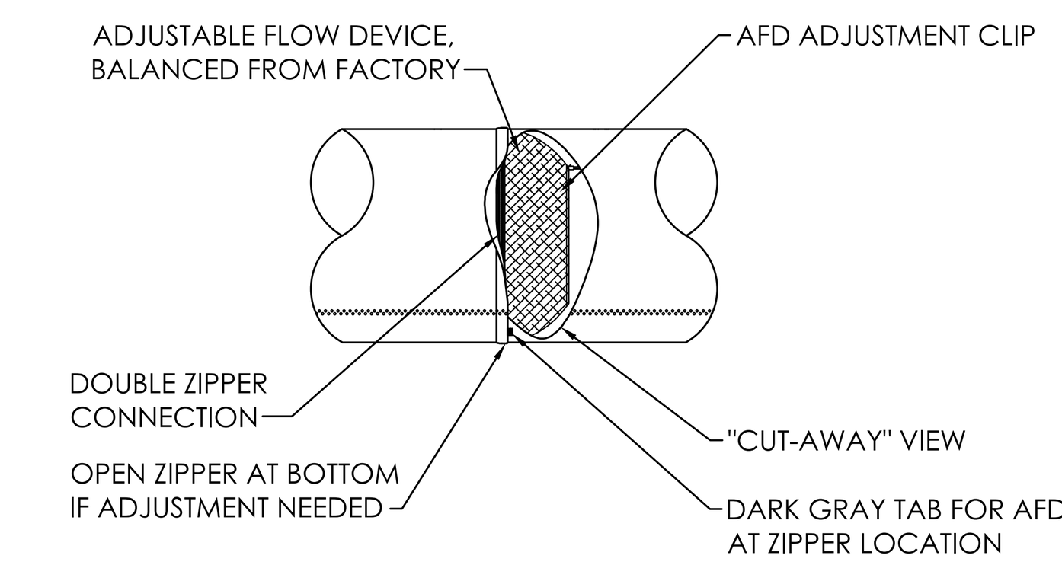
NO SCALE



INLET ATTACHMENT DETAIL (FABRIC DUCT)

NO SCALE

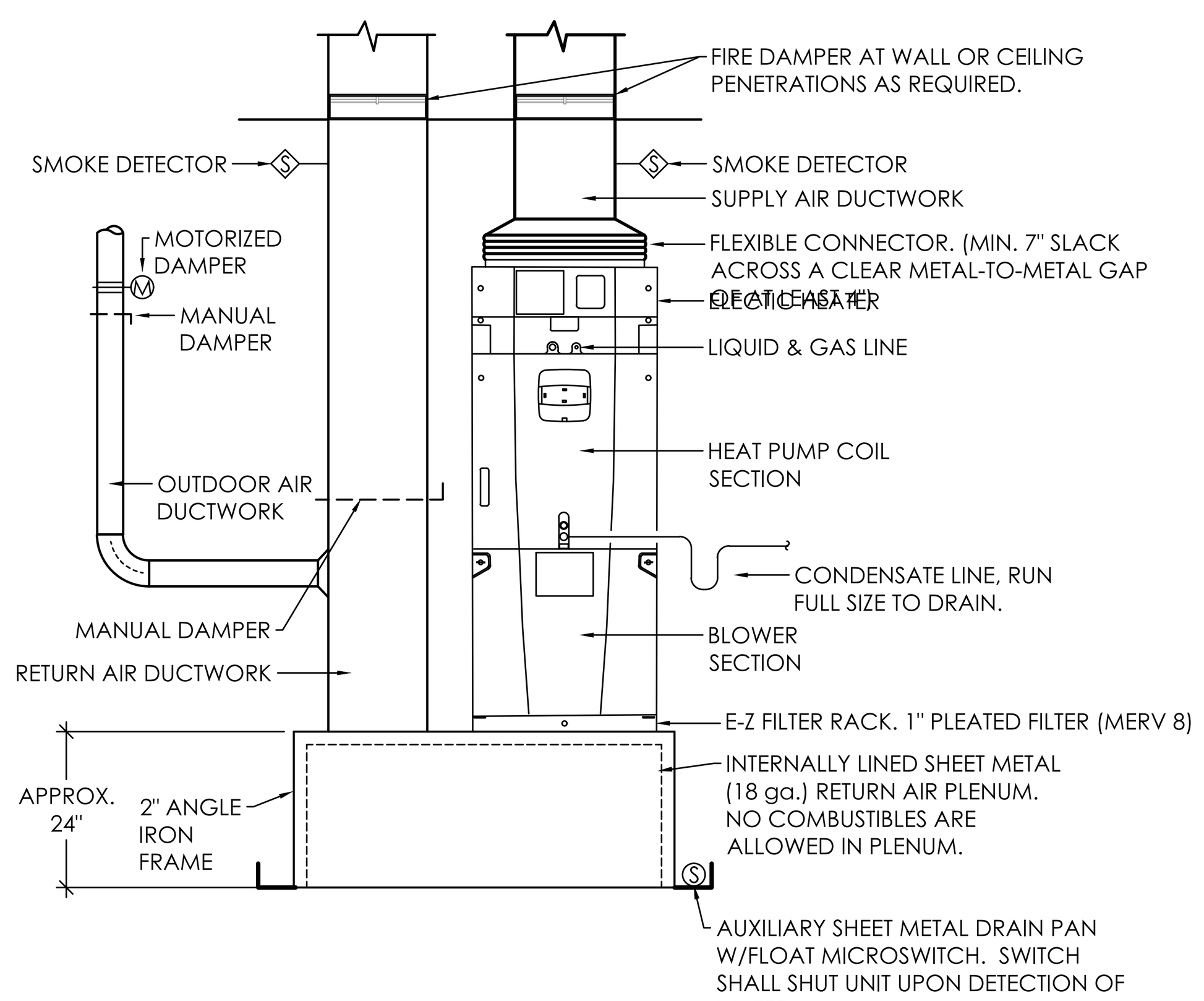
(CONSTRUCTION WITH ZIPPER AND OVERLAP)



ADJUSTABLE FLOW DEVICE (AFD) (FABRIC DUCT)

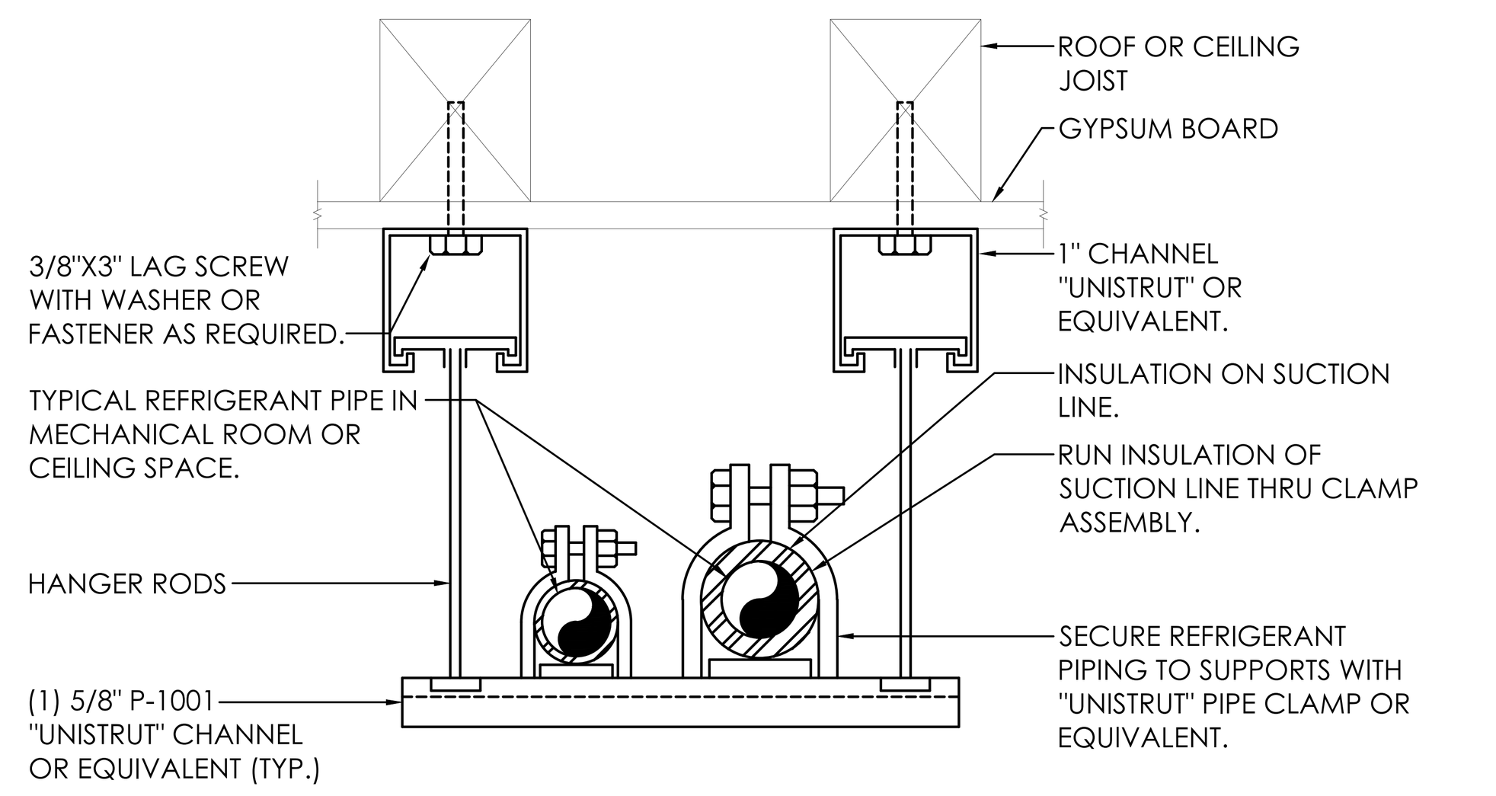
NO SCALE

(INSTALLED AT ZIPPER LOCATION AT INLET OR AS SPECIFIED IN OTHER LOCATIONS. ZIPPER TO ZIPPER CONNECTION AS SHOWN. EXTERNAL LABEL IDENTIFIES LOCATION.)



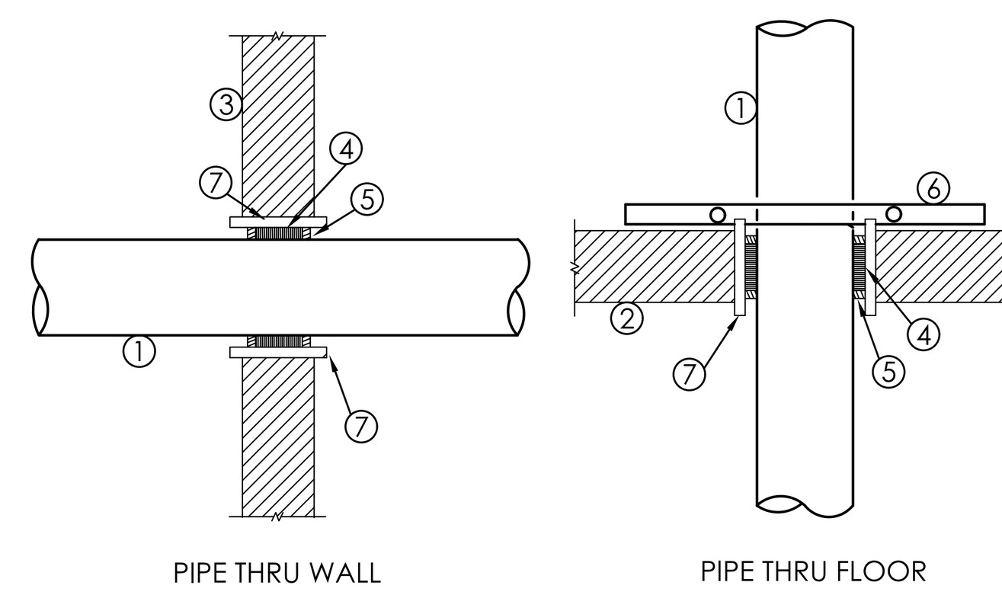
INDOOR HEAT PUMP UNIT DETAIL

NO SCALE TYP. IHP-2 THRU IHP-9



SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING DETAIL

NO SCALE



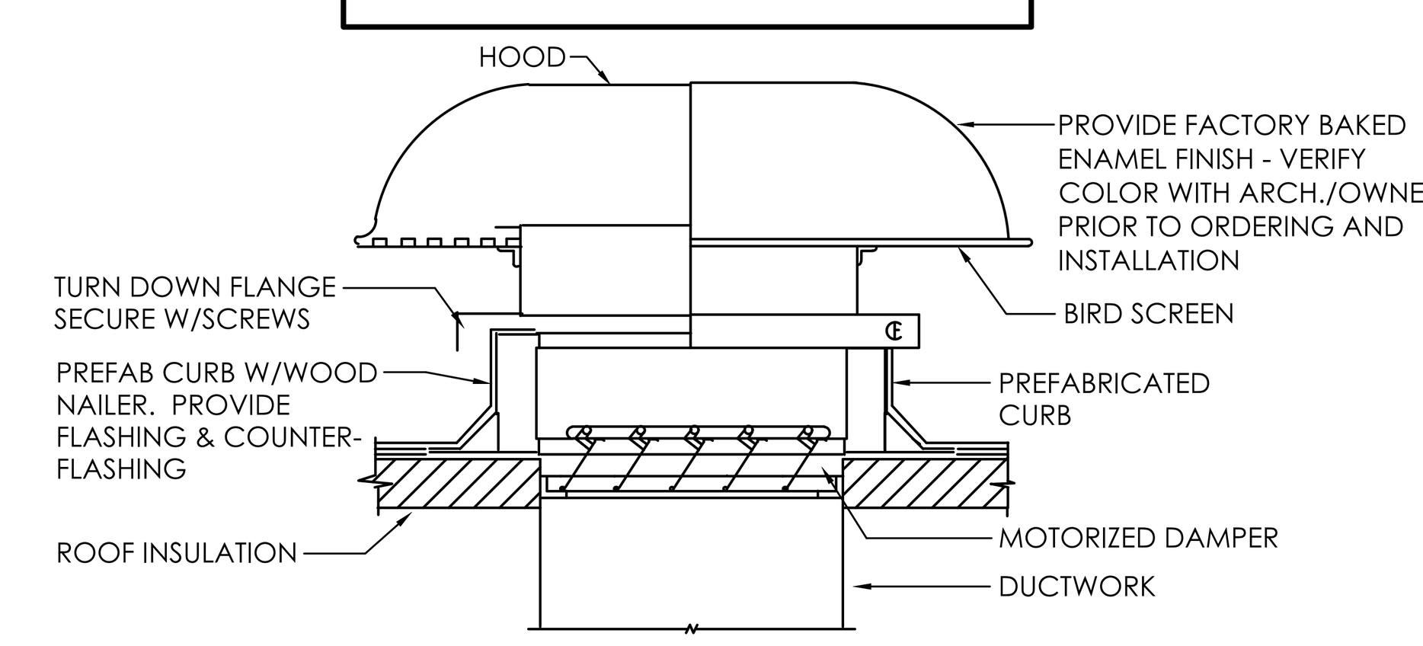
LEGEND: (THIS DETAIL ONLY)

1. PIPE
2. FLOOR
3. WALL OR PARTITION
4. FIRE STOP FOAM
5. FIRE STOP SEALANT
6. RISER CLAMP
7. SLEEVE

PIPE THRU STRUCTURE DETAIL

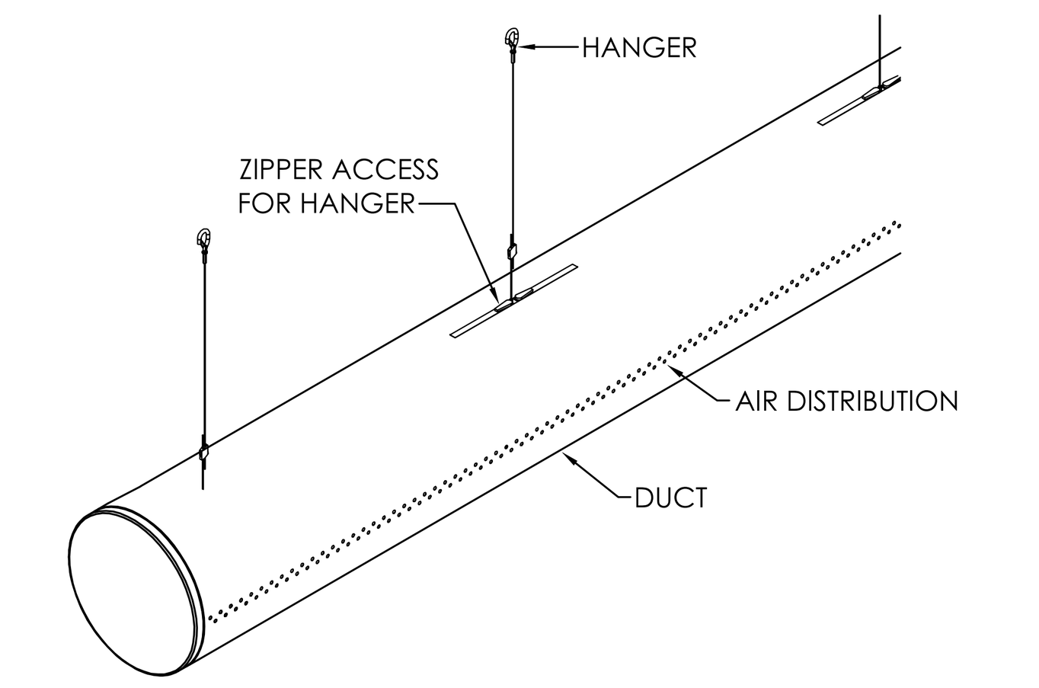
NO SCALE

NOTE:
MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS FOR EACH PIECE OF ROOF MOUNTED MECHANICAL EQUIPMENT - SEE WIND RESTRAINT DETAILS IN MECHANICAL PLANS.



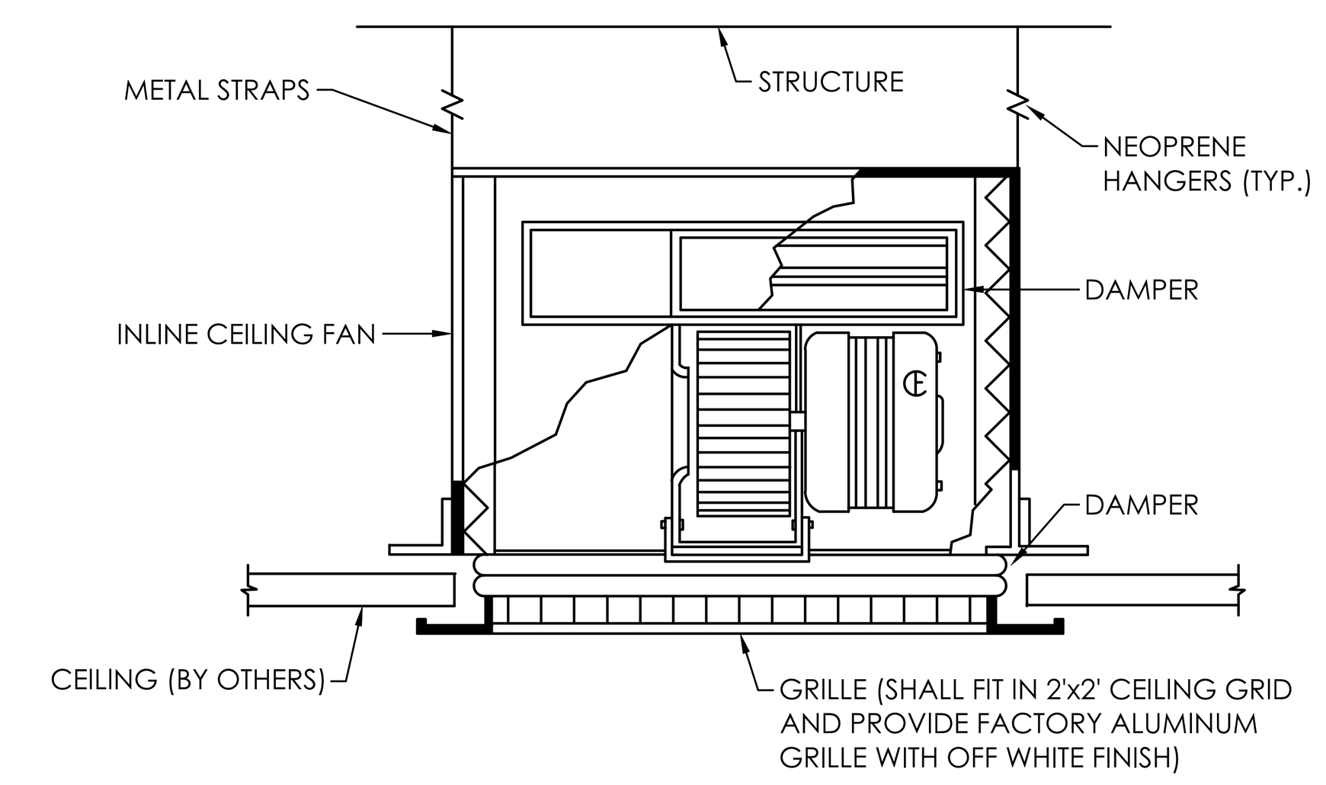
INTAKE/RELIEF HOOD DETAIL

NO SCALE TYP. H-1 THRU H-8 AND SSH-1 THRU SSH-8



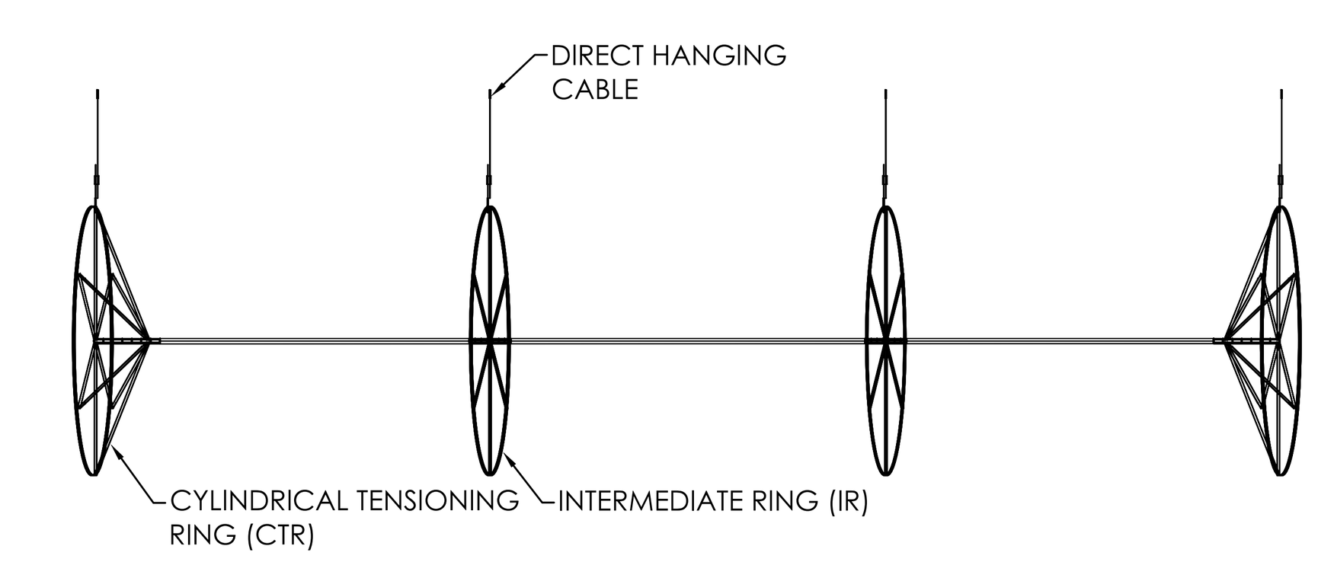
FABRIC DUCT SUSPENSION DETAIL

NO SCALE



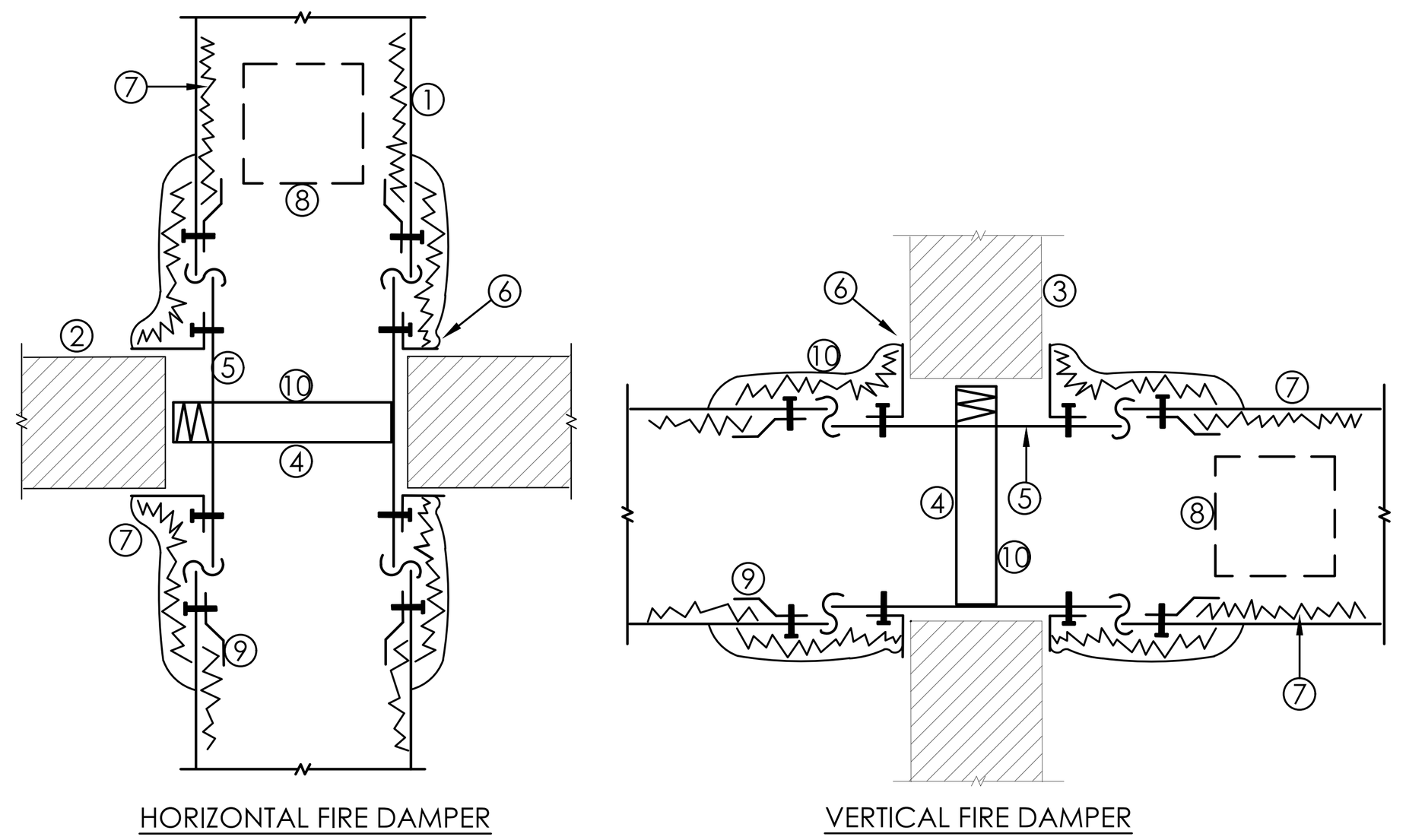
CEILING EXHAUST FAN DETAIL

NO SCALE TYP. ALL CEILING MOUNTED EXHAUST FANS.



FABRIC DUCT TENSIONING DETAIL

NO SCALE

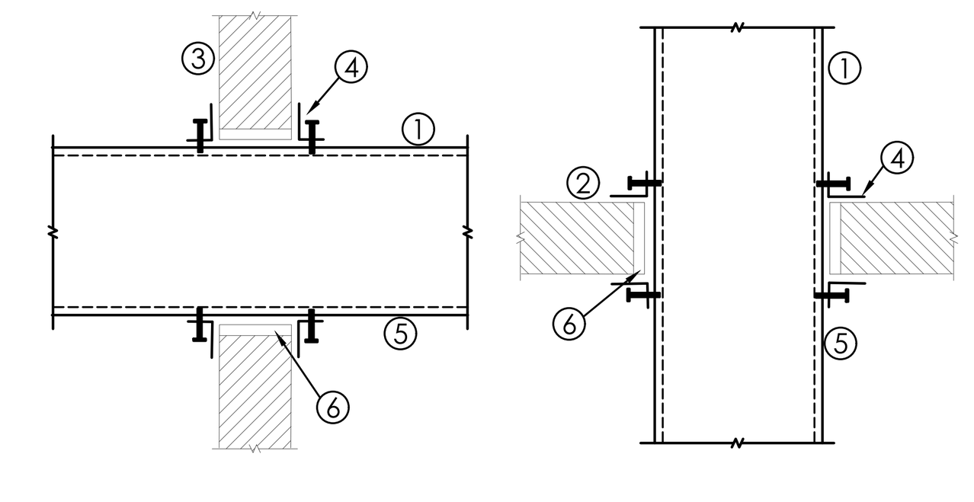


LEGEND (THIS DETAIL ONLY)

1. SHEET METAL DUCTWORK
2. FLOOR OR CEILING
3. WALL OR PARTITION
4. TYPE "B" FIRE DAMPER (UL LISTED)
5. SLEEVE (20 GAUGE)
6. MOUNTING ANGLE (20 GAUGE)
7. INSULATION
8. 12"X12" ACCESS PANEL
9. INSULATION CLIP
10. FIRE DAMPER SHALL BE "DYNAMIC" TYPE FIRE DAMPER (TYP. ALL FIRE DAMPERS)

FIRE DAMPER DETAIL

NO SCALE

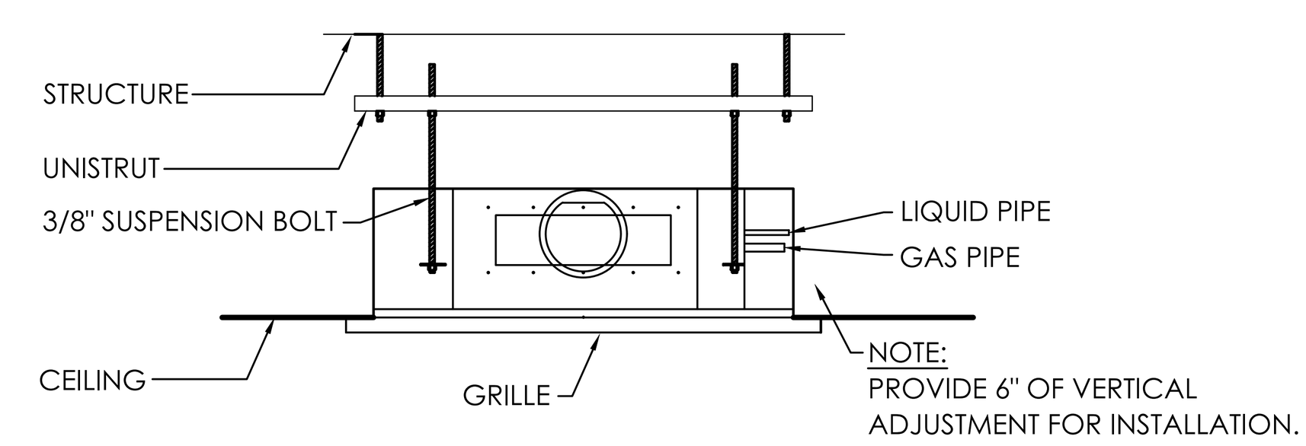


LEGEND: (THIS DETAIL ONLY)

1. SHEET METAL DUCTWORK
2. FLOOR
3. WALL OR PARTITION
4. SHEET METAL ANGLE, 22 GAUGE. INSTALL ALL FOUR SIDES.
5. INTERNAL INSULATION
6. SLEEVE

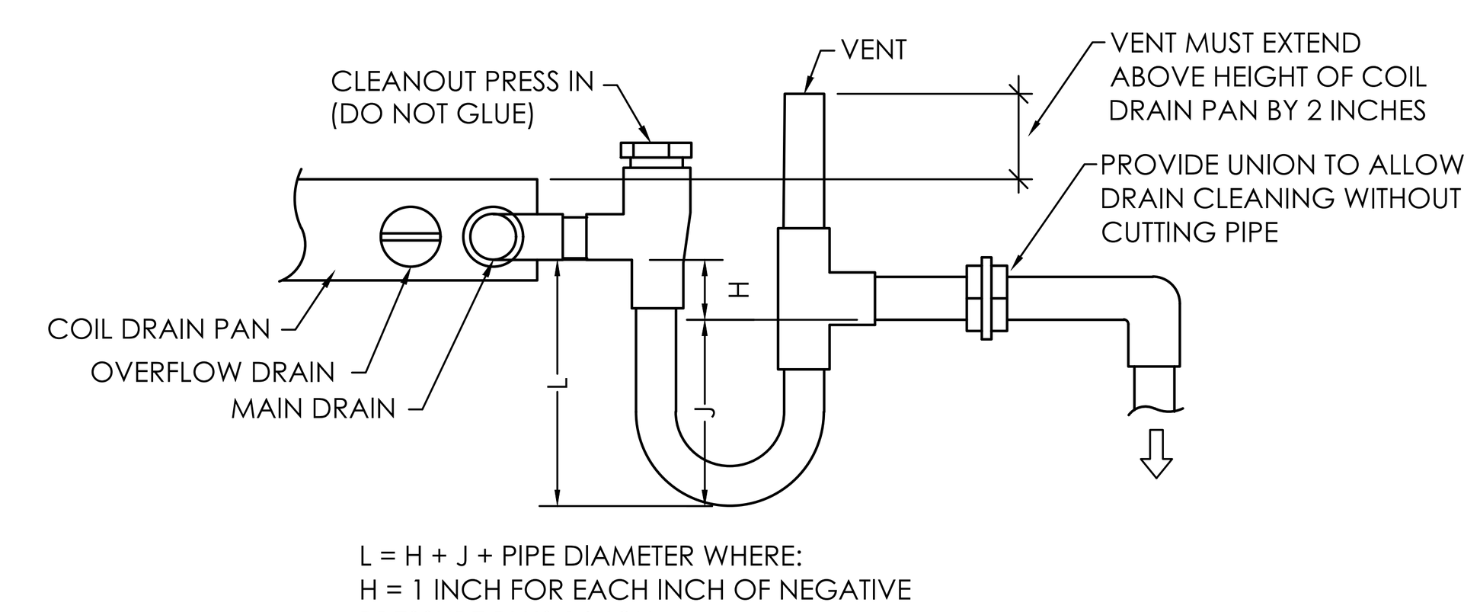
DUCT THRU NON-RATED STRUCTURE DETAIL

NO SCALE



CEILING RECESSED MINI-SPLIT AHU MOUNTING DETAIL

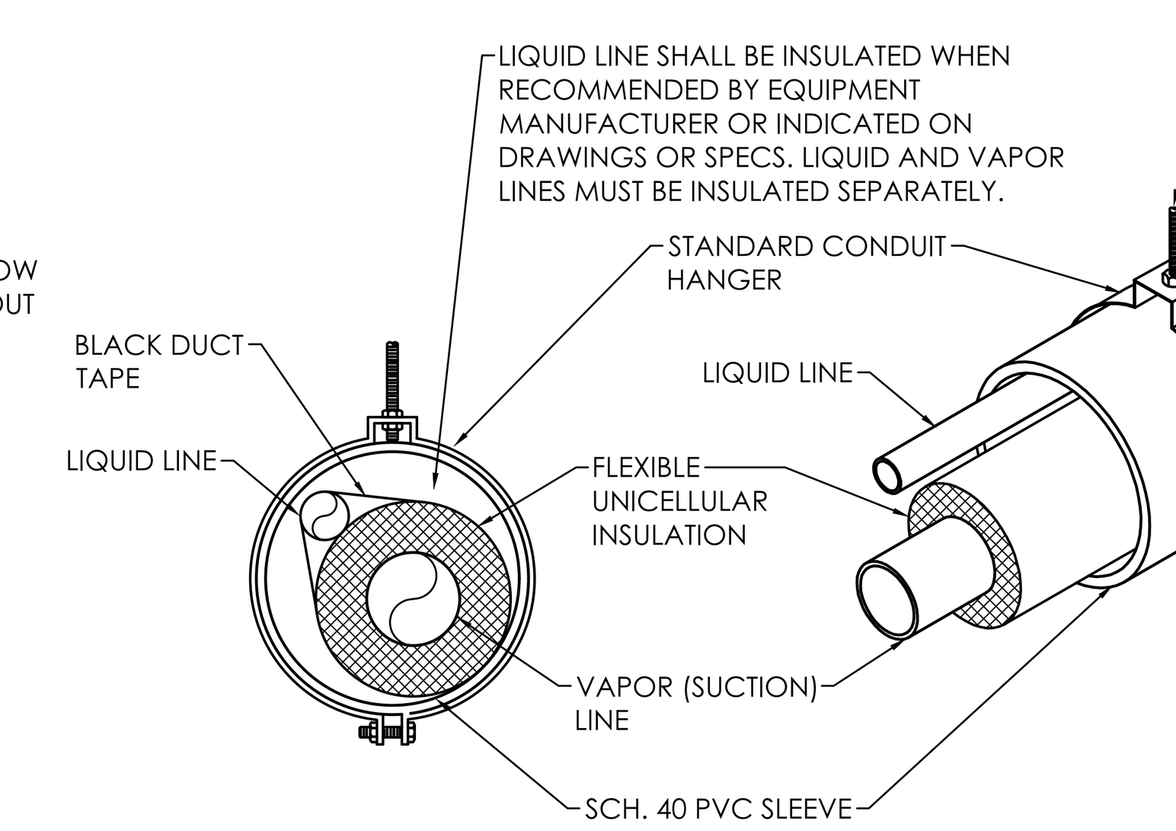
NO SCALE TYP. IMS-1



L = H + J + PIPE DIAMETER WHERE:
H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH
J = 1/2 H

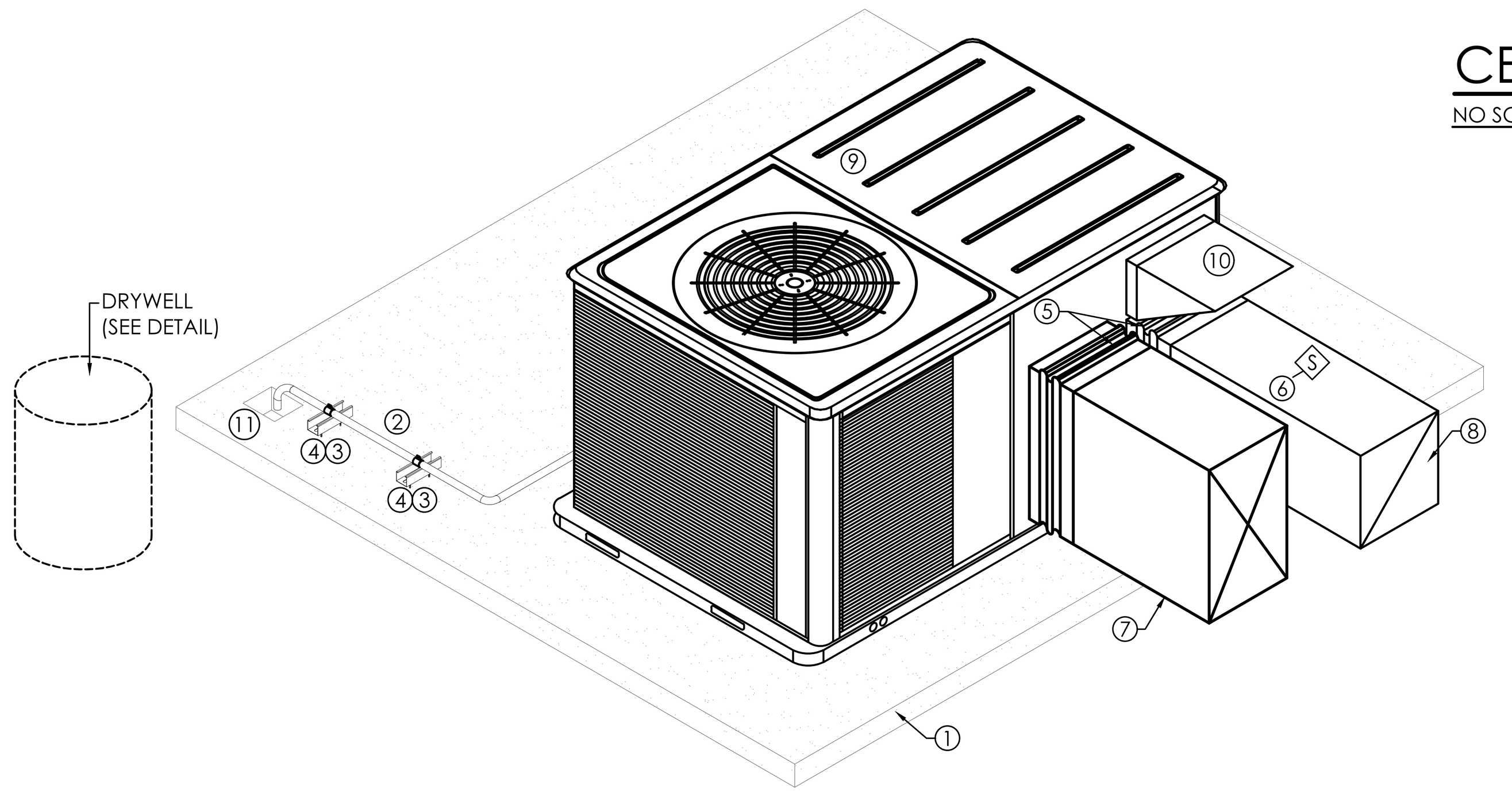
CONDENSATE DRAIN DETAIL

NO SCALE



REFRIGERANT PIPE HANGER DETAIL

NO SCALE

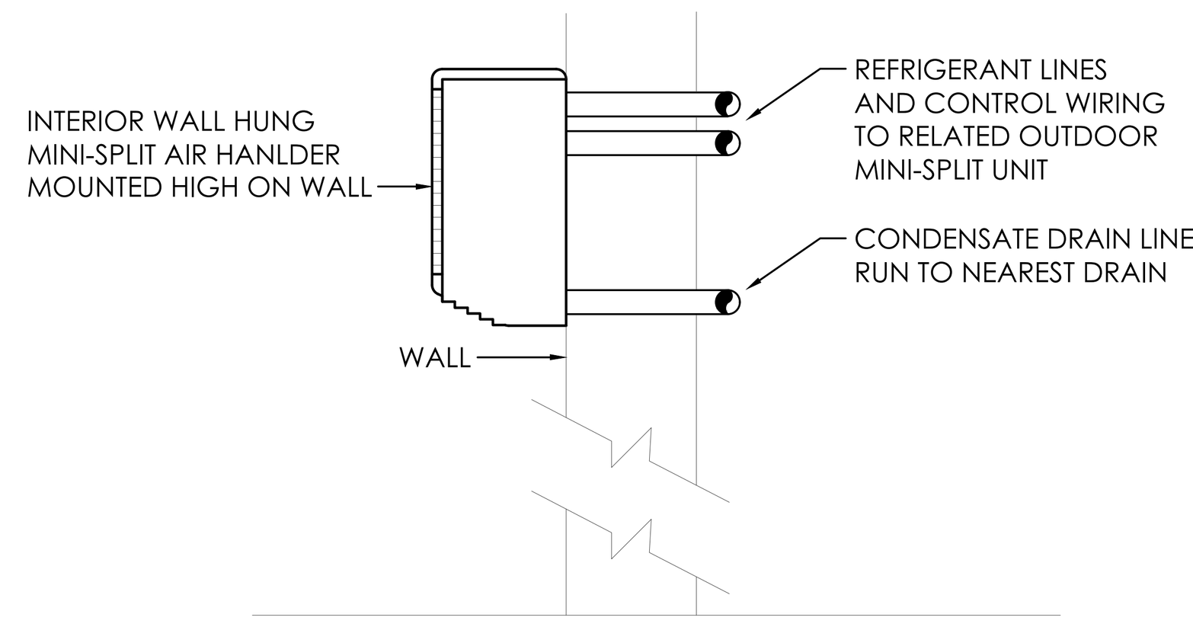


PACKAGED UNIT INSTALLATION DETAIL

NO SCALE TYP. PHP-1, PAC-1 AND PAC-2

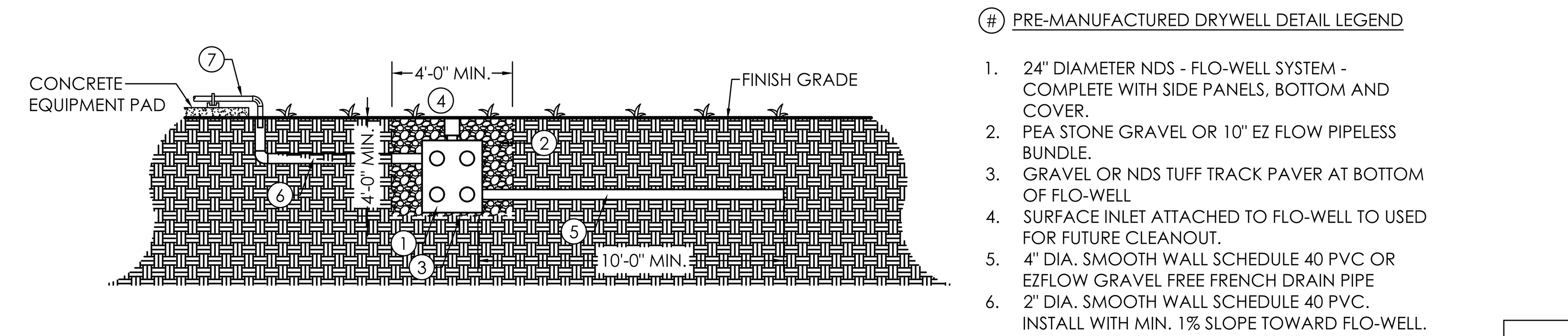
NOTE LEGEND: (THIS DETAIL ONLY)

1. 4" LEVEL CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLING EQUIPMENT.
2. PROVIDE 1" COPPER CONDENSATE PIPE. CONDENSATE IS TO SPILL ON SPLASH BLOCK. SEE DETAIL FOR SPLASH BLOCK AND DRYWELL PIPING.
3. UNISTRUT PIPE SUPPORT. SUPPORT PIPING EVERY 3'-0" MAX. SEE DETAIL.
4. SECURE CONDENSATE PIPING TO SUPPORTS WITH "HYDRA-ZORB", "CUSH-A-CLAMP" OR EQUIVALENT. (TYP.)
5. FLEXIBLE CONNECTOR FOR DUCTWORK. (MIN. 4 SLACK ACROSS)
6. SMOKE DETECTOR. PROVIDE ON ALL UNITS 2000 CFM OR GREATER. UNIT SHALL BE WIRED TO SHUT DOWN UPON DETECTION OF SMOKE.
7. SUPPLY AIR DUCTWORK. THERMADUCT KINGSPAN KOOLTHERM OR APPROVED EQUAL.
8. RETURN AIR DUCTWORK. THERMADUCT KINGSPAN KOOLTHERM OR APPROVED EQUAL.
9. PACKAGED HEAT PUMP UNIT. (SEE SPECIFICATIONS)
10. OUTSIDE AIR INTAKE HOOD WITH DAMPER.
11. 12"X12" OPENING IN PAD TO ALLOW FOR CONDENSATE PIPING. BACK FILL OPENING WITH GRAVEL.



WALL MOUNTED MINI-SPLIT AHU DETAIL

NO SCALE TYP. IMS-2 THRU IMS-5



PRE-MANUFACTURED DRYWELL DETAIL

NO SCALE TYP. PHP-1, PAC-1, PAC-2 AND IMS-1

PRE-MANUFACTURED DRYWELL DETAIL LEGEND

1. 24" DIAMETER NDS - FLO-WELL SYSTEM - COMPLETE WITH SIDE PANELS, BOTTOM AND COVER.
2. PEA STONE GRAVEL OR 10" EZ FLOW PIPELESS BUNDLE.
3. GRAVEL OR NDS TUFF TRACK PAVER AT BOTTOM OF FLO-WELL
4. SURFACE INLET ATTACHED TO FLO-WELL TO USED FOR FUTURE CLEANOUT.
5. 4" DIA. SMOOTH WALL SCHEDULE 40 PVC OR EZFLOW GRAVEL FREE FRENCH DRAIN PIPE
6. 2" DIA. SMOOTH WALL SCHEDULE 40 PVC, INSTALL WITH MIN. 1% SLOPE TOWARD FLO-WELL.
7. ROUTE CONDENSATE PIPING FROM EQUIPMENT STUB INTO 2" PIPE MIN. OF 2". LEAVE AIR GAP OPEN FOR DRAINAGE.

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www.mdmorriseng.com PROJECT NO: 25-148

LATHAN McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL DETAILS

PROJ. MGR.: JBB/JHM
DRAWN: JBB
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
M3.1

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
18X12 (HEIGHT, WIDTH) — 18X12	DUCTWORK, DOUBLE LINE AND SINGLE LINE. DIMENSIONS ARE NET FREE AREA.
18X12 (HEIGHT, WIDTH)	SUPPLY DUCTWORK. DIMENSIONS ARE NET FREE AREA
18X12 (HEIGHT, WIDTH)	RETURN OR EXHAUST DUCTWORK. DIMENSIONS ARE NET FREE AREA
	TRANSITION. 4:1 RATIO FOR LOW PRESSURE, 7:1 RATIO FOR HIGH PRESSURE.
	ELBOW TURNED UP WITH TURNING VANES
	ELBOW TURNED DOWN WITH TURNING VANES
	ROUND DUCT TURNED DOWN
	ROUND DUCT TURNED UP
	RADIUS TYPE ELBOW WITH TURNING VANES. INSIDE RADIUS = WIDTH.
	SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWOK ELBOWS UNLESS NOTED OTHERWISE.
MVD — MVD	MANUAL VOLUME DAMPER (MVD)
M MOD — M MOD	MOTOR OPERATED DAMPER (MOD) ALL MOD'S SHALL HAVE 12X12 AP UNLESS NOTED OTHERWISE. MOD'S TO OCCUR AT ALL MAIN RETURN AIR TRUNK DUCTS AT EACH UNIT, MAIN OUTSIDE AIR DUCTS AT EACH UNIT AND RELIEF DUCTS RELIEVING INTO VENTILATED ATTIC.
FLEX (4' MAX.) — FLEX (4' MAX.); RIGID DUCT; A-200 SYMBOL CFM	DIFFUSER WITH HARD SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER
J-24X24-180 SYMBOL, REGISTER SIZE, CFM	WALL RETURN OR EXHAUST REGISTER
I-24X12-180 SYMBOL, REGISTER SIZE, CFM	SIDEWALL SUPPLY REGISTER
H-200 SYMBOL CFM	RETURN OR EXHAUST REGISTER OR GRILLE
	RECTANGULAR TO ROUND OR TAKEOFF AND DAMPER W/STANDOFF BRACKET
	PIPE TURNED DOWN
	PIPE TURNED UP
(T)	TOUCH-SCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH VENTED METAL LOCK-BOX
(H)	HUMIDISTAT WITH VENTED METAL LOCK-BOX
(IAQ)	INDOOR AIR QUALITY SENSOR WITH VENTED METAL LOCK-BOX
—— CD ——	CONDENSATE DRAIN

MECHANICAL GENERAL NOTES

1. **THESE DRAWINGS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE AND OPERATIONAL HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESS PANELS FOR SERVICE, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICALABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF THE OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.**
2. COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, ELECTRICAL AND ALL OTHER TRADES TO AVOID CONFLICT. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE OWNER. ANY COST OF RE-SIZING OR RE-ROUTING DUCTWORK TO COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES SHALL BE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
4. PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
5. ALL FAN MOTORS 1/8 HP AND ABOVE SHALL HAVE A DISCONNECT SWITCH MOUNTED AT THE FAN.
6. ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH 1-1/2" X 1-1/2" X 1/8" GALVANIZED STEEL ANGLES BOLTED OR RIVETED 6" ON THE CENTER (MAX.) ALL AROUND THE EXTERIOR PERIMETER OF THE DUCT.
7. MOUNT THERMOSTATS, HUMIDITY SENSORS, CO2 SENSORS AND OTHER CONTROLLERS 48" A.F.F. UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWINGS FOR LOCATIONS. WHERE THERE IS A CONFLICT OF LOCATIONS BETWEEN THE DRAWINGS, NOTIFY THE ARCHITECT IMMEDIATELY. VERIFY EXACT LOCATION BEFORE INSTALLATION.
8. PROVIDE INTERNAL INSULATION (1" THICK CLOSED CELL) FOR SUPPLY, RETURN, AND OUTDOOR AIR DUCTS WITHIN 20' OF EACH INDOOR AIR HANDLING UNIT (UNLESS NOTED OTHERWISE), FAN, ETC. ALL OTHER DUCTWORK SHALL BE INSULATED WITH 2" THICK, FOIL BACKED 3/4 LB. DENSITY BLANKET INSULATION UNLESS NOTED OTHERWISE.
9. CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. ALL CONDENSATE LINES SHALL BE INSULATED.
10. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR, ADJUST FOR LINER.
11. IN ADDITION TO OFFSETS IN DUCTWORK SHOWN, PROVIDE OFFSETS REQUIRED TO MAINTAIN TOP OF DUCTWORK AND PIPING TIGHT TO STRUCTURE.
12. DUCTS AND EQUIPMENT WITH STANDING BRACES SHALL BE ARRANGED SO THAT THE BRACES WILL NOT BE OVER LIGHTS OR UNDER BEAMS IN AREAS WHERE THE CLEARANCE BETWEEN LIGHTS AND BEAMS IS LIMITED.
13. **DUCTWORK SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA STANDARD.** SEAL ALL JOINTS WITH HARD-CAST PRIOR TO INSULATING.
14. VERIFY EXACT LOCATION OF CONTROLS AND THERMOSTATS WITH ARCHITECT/OWNER PRIOR TO WIRING AND INSTALLATION.
15. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ALL WALL, FLOOR, AND ROOF OPENINGS (DIMENSIONS AND LOCATIONS). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN THE STRUCTURE. COORDINATE THE LOCATION OF FLOOR DRAINS WITH MECHANICAL EQUIPMENT PRIOR TO ROUGHING IN OR PLACEMENT OF MECHANICAL EQUIPMENT.
16. ALL DUCTWORK SHALL BE CONNECTED TO AIR HANDLING UNITS WITH FLEXIBLE SLEEVES. EACH SLEEVE SHALL HAVE AT LEAST 7" SLACK ACROSS A CLEAR METAL-TO-METAL GAP OF AT LEAST 4".
17. **MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ARCHITECTURAL LIFE SAFETY PLANS PRIOR TO BIDDING, ORDERING EQUIPMENT/MATERIALS AND/OR STARTING ANY WORK ON SITE AND SHALL PROVIDE A U.L. LISTED DYNAMIC FIRE DAMPER ASSEMBLY AND ACCESS PANEL AT ALL DUCTWORK PENETRATIONS OF FIRE RATED WALLS, CEILINGS, LAYERS, ETC. REGARDLESS IF SHOWN ON MECHANICAL PLANS OR NOT.**
18. PROVIDE LONG-LINE REFRIGERANT KITS FOR ALL HVAC SYSTEMS REQUIRING LINE-SETS THAT EXTEND BEYOND THE MANUFACTURER'S RECOMMENDED LINE-SET LENGTH. COORDINATE LINE SIZE AND LENGTH WITH HVAC SYSTEMS MANUFACTURER PRIOR TO ORDERING AND INSTALLATION.
19. **MECHANICAL CONTRACTOR SHALL REVIEW MECHANICAL PLANS/NOTES/SPECS/ETC. PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR PROVIDING ACCESS PANELS ALLOWING ACCESS TO MECHANICAL ITEMS REQUIRING SERVICE MOTORIZED DAMPERS, FIRE DAMPERS IF REQUIRED, ETC.).**
20. **IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW AND COORDINATE THE MECHANICAL DESIGNS/PLANS/NOTES/SPECS/ETC. WITH ALL OTHER DISCIPLINES PLANS AND DESIGNS PRIOR TO SUBMITTING A BID - GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE MECHANICAL PLANS AND DESIGNS AND ALL OTHER DISCIPLINES PLANS AND DESIGNS PRIOR TO SUBMITTING A BID. IT IS ALSO THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE PROBLEMS AND DISCREPANCIES WITH THE GENERAL CONTRACTOR'S SUB-CONTRACTOR'S PRIOR TO STARTING CONSTRUCTION, ORDERING EQUIPMENT, INSTALLATION OF EQUIPMENT, ETC. ANY AND ALL ISSUES THAT ARISE DUE TO THE GENERAL CONTRACTOR NOT COORDINATING THESE PROBLEMS AND DISCREPANCIES WITH THE ENGINEER, ARCHITECT AND SUB-CONTRACTORS SHALL BE AT THE GENERAL CONTRACTOR'S EXPENSE AND SHALL BE AT NO EXPENSE TO THE OWNER OR ANYONE ELSE - NO EXCEPTIONS!.**
21. COORDINATE UNDERCUTTING OF DOORS WITH GENERAL CONTRACTOR.
22. **HVAC CONTROLS SHALL BE INSTALLED BY HVAC CONTROLS CONTRACTOR WITH MINIMUM 5-YEARS OF EXPERIENCE.**
23. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES PRIOR TO LOCATING AND INSTALLATION OF ALL AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHT FIXTURES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR THEIR REVIEW AND/OR APPROVAL.
24. MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS ON EACH PIECE OF GRADE MOUNTED MECHANICAL EQUIPMENT.
25. MECHANICAL CONTRACTOR SHALL PROVIDE A SHEET METAL PLENUM BEHIND ALL LOUVERS FULL SIZE OF LOUVERS. PLENUM SHALL BE INTERNALLY LINED FOR OUTSIDE AIR INTAKE - NO LINER REQUIRED FOR EXHAUST RELIEF.
26. **MAKE SURE THAT ALL ITEMS REQUIRING SERVICE (IE: FILTERS, MOTORIZED DAMPERS, SMOKE DETECTORS, ETC.) IN MECHANCIAL ROOMS ARE EASILY ACCESSIBLE.**
27. **CONTRACTOR SHALL VISIT THE SITE AND NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF ANY PROBLEMS OR DISCREPANCIES IN THE DRAWINGS PRIOR TO SUBMITTING A BID, ORDERING EQUIPMENT OR INSTALLATION OF EQUIPMENT AND ACCESSORIES.**
28. MECHANICAL CONTRACTOR SHALL PROVIDE PROPER SERVICE CLEARANCE FOR EACH PIECE OF MECHANICAL EQUIPMENT REQUIRING SERVICE.
29. MOTORIZED DAMPERS SHALL OCCUR AT ALL MAIN RETURN AIR TRUNK DUCTS AT EACH UNIT, MAIN OUTSIDE AIR DUCTS AT EACH UNIT AND RELIEF DUCTS RELIEVING INTO VENTILATED ATTIC.
30. MANUAL VOLUME DAMPERS SHALL OCCUR AT EACH RUN-OUT TO AIR DISTRIBUTION DEVICES, ALL MAIN RETURN AIR TRUNK DUCTS AT EACH UNIT, MAIN OUTSIDE AIR DUCTS AT EACH UNIT.

DUCTWORK LEAK/PRESSURE TESTING

1. Ductwork shall be in accordance with the latest SMACNA Standard. Seal all joints with Hard–Cast prior to insulating.
2. Mechanical Specification Section 23 0500 General HVAC Requirements Item 1.5 Codes indicates the following:
   A. **Comply with applicable 2013 90.1 ASHRAE, 2021 International Building Code, and 2021 International Mechanical Code requirements and conform to ordinances and codes of the locality. Where conflicts occur between code and construction drawings or specifications, most stringent requirements shall apply. Any work provided contrary to these requirements shall be removed and replaced at contractor's expense.**
3. 2013 90.1 ASRAE Standard paragraph 6.4.4.2.2 requires the following:
   "Ductwork that is designed to operate at static pressures in excess of 3" wc …shall be pressure leak tested according to industry accepted test procedures (See Informative Appendix E)". Appendix E refers to SMACNA Standard. "Representative sections totaling no less than 25% of the total installed duct area for the designated pressure class shall be tested."
4. The ductwork downstream of the Air Handling Units (AHU-1, AHU-2, PAC-1, PAC-16 and PAC-21) to the Variable Air Volume Boxes are in excess of 3" wc design and are required to be pressure tested per SMACNA Standard.
5. SMACNA Pressure Testing required the following:
   A. Supply Air Ducts - Upstream of VAV Terminal Units (from discharge of AHU to inlet of VAV)
   B. Material - Galvanized Sheet Metal
   C. Pressure Class - 4.0" W.C.
   D. Duct Sealer - Water Based Joint Sealant.
   E. Seal Class "A"- Transverse & Longitudinal Joints and duct wall penetrations.
   F. SMACNA Rectangular Leakage Test Class - 4 (10 CFM/100 ft^2)
   G. SMACNA Round Leakage Test Class - 4 (5 CFM/100 ft^2)

REFRIGERANT MITIGATION CONTROLS:

A. REFRIGERANT RELEASE MITIGATION CONTROLS: UNIT SHALL BE FURNISHED WITH A REFRIGERANT RELEASE MITIGATION CONTROL SYSTEM THAT IS LISTED PER UL 60335-2-40 FROM THE FACTORY WHEN A CIRCUIT REFRIGERANT CHARGE EXCEEDS 3.91 LBS. THE REFRIGERANT RELEASE MITIGATION SYSTEM SHALL CONSIST OF ONE OR MORE REFRIGERANT DETECTION SENSORS. WHEN THE SYSTEM DETECTS A LEAK, THE UNIT CONTROLLER SHALL INITIATE REFRIGERANT MITIGATION ACTIONS AND ISOLATE ALL POSSIBLE PATHS OF REFRIGERANT THAT CAN LEAK INTO THE SPACE(S). REFRIGERANT RELEASE MITIGATION CONTROLS SHALL BE TESTED IN ACCORDANCE WITH ASHRAE 15 -2022.9.13.

B. REFRIGERANT MITIGATION ACTION REQUIREMENTS: THE FOLLOWING MITIGATION ACTIONS SHALL BE COMPLETED IN NOT MORE THAN 15 SECONDS AFTER THE INITIATION OF LEAK DETECTION SENSOR AND SHALL BE MAINTAINED FOR AT LEAST 5 MINUTES AFTER THE OUTPUT SIGNAL IS RESET.
   a. DE-ENERGIZE POTENTIAL IGNITION SOURCES, INCLUDING OPEN FLAMES AND UNCLASSIFIED ELECTRICAL SOURCES OF IGNITION WITH APPARENT POWER RATING GREATER THAN 1KVA, WHERE THE APPARENT POWER IS THE PRODUCT OF THE CIRCUIT VOLTAGE AND CURRENT RATING.

REFRIGERANT LEAK DETECTION CONTROLS:

1. THE LEAK DETECTION SYSTEM SHALL CONSIST OF ONE OR MORE REFRIGERANT LEAK DETECTION SENSORS INSTALLED IN THE HVAC EQUIPMENT MANUFACTURER.
2. WHEN THE SYSTEM DETECTS A LEAK, THE FOLLOWING MITIGATION ACTIONS WILL BE INITIATED UNTIL REFRIGERANT HAS BEEN DETECTED FOR 5 MINUTES.
   A. SUPPLY FANS SHALL BE ENERGIZED TO RUN AT 100% FAN SPEED
   B. COMPRESSOR OPERATION SHALL BE DISABLED
   C. ALL ZONING DAMPERS SUCH AS VAV TERMINAL UNITS SHALL BE OPENED 100%
   D. ALL ELECTRICAL HEAT OR GAS HEAT SHALL BE DISABLED.
3. THE BUILDING FIRE AND SMOKE SYSTEMS SHALL OVERRIDE THIS FUNCTION.
4. IF THE REFRIGERANT SENSOR HAS A FAULT, IS AT THE END OF ITS USEFUL LIFE, OR IS DISCONNECTED, THE AC UNIT WILL INITIATE THE ABOVE MITIGATION ACTIONS SHALL BE VERIFIED BY DISCONNECTING SENSOR.
5. THE REFRIGERANT SENSORS DO NOT NEED ROUTINE MAINTENANCE. USE ONLY MANUFACTURER APPROVED SENSORS WHEN REPLACEMENT IS REQUIRED.

PACKAGED HEAT PUMP UNIT SCHEDULE

SYMBOL	EVAP FAN TOTAL CFM	O.A. CFM MIN.	O.A. CFM MAX.	EXT. SP "H20	HP	COOLING TOTAL MBH	COOLING SEN. MBH	IEER/EER	HEATING TOTAL MBH	HEATING ELECTRIC KW	COP	ELEC.	ARI SOUND RATING (dB)	BASED ON TRANE MODEL (OR APPROVED EQUAL)	REMARKS
PHP-1	8000	615	615	0.5"	3.0	245.3	193.4	12.5/9.5	217.1	54.0	3.2	480/3/60	85	WSK240A4S0P	1,2,3,4,5,6,7,8,9

SCHEDULE NOTES:
1. CAPACITY BASED ON EDB 80°F., EWB 67°F. & AMBIENT 95°F.
2. RATED IN ACCORDANCE WITH AHRI STANDARD 210-81.
3. PROVIDE CONSTANT VOLUME HEAT PUMP OPERATION.
4. PROVIDE DUAL COMPRESSORS.
5. SUPPLY FAN SHALL BE TWO-SPEED VFD CONTROLLED.
6. PROVIDE SINGLE POINT POWER CONNECTION, FACTORY OUTSIDE AIR HOOD WITH MOTORIZED DAMPER, FACTORY RELIEF HOOD WITH MOTORIZED DAMPER, FACTORY INSTALLED DISCONNECT SWITCH, FACTORY POWERED CONVENIENCE OUTLET AND FACTORY HAIL GUARD. PROVIDE POWERED EXHAUST, STAINLESS STEEL CONDENSATE DRAIN PAN AND 2" PLEATED MERV 8 FILTERS.
7. **NO ECONOMIZER REQUIRED PER DCM EXCEPTION TO ASHRAE STANDARD 90.1 2013.**
8. PROVIDE R-454B REFRIGERANT.
9. **UNIT REQUIRES REFRIGERANT MONITOR.**

NOTE:
REFER TO MECH. SPEC. SECTION 15050 GENERAL HVAC REQUIREMENTS FOR "BPI" CALCULATIONS. NEEDLEPOINT BIPOLAR IONIZATION DEVICES SHALL DE-ENERGIZE WHEN AHU SUPPLY FAN SHUTS DOWN.

NOTE: PAC-1 OUTDOOR AIR CFM WILL APPLY TO 2021 IMC 403.3 (STANDARD VENTILATION REQUIREMENT)

PACKAGED COOLING WITH ELECTRIC HEAT UNIT SCHEDULE

SYMBOL	EVAP FAN TOTAL CFM	O.A. CFM MIN.	O.A. CFM MAX.	EXT. SP "H20	HP	COOLING TOTAL MBH	COOLING SEN. MBH	IEER/EER	HEATING TOTAL MBH	HEATING ELECTRIC KW	ELEC.	ARI SOUND RATING (dB)	BASED ON TRANE MODEL (OR APPROVED EQUAL)	REMARKS
PAC-1	8000	660	2995	0.5"	3.0	248.3	186.1	13.2/10.0	184.4	54.0	480/3/60	84	TSK240A4S0P	1,2,3,4,5,6,7,8,9
PAC-2	8000	610	610	0.5"	3.0	248.3	186.1	13.2/10.0	184.4	54.0	480/3/60	84	TSK240A4S0P	1,2,3,4,5,6,7,8,9

SCHEDULE NOTES:
1. CAPACITY BASED ON EDB 80°F., EWB 67°F. & AMBIENT 95°F.
2. RATED IN ACCORDANCE WITH AHRI STANDARD 210-81.
3. PROVIDE VARIABLE VOLUME OPERATION.
4. PROVIDE DUAL COMPRESSORS.
5. SUPPLY FAN SHALL BE TWO-SPEED VFD CONTROLLED.
6. PROVIDE FACTORY HOT-GAS RE-HEAT FOR HUMIDITY CONTROL WITH ALL REQUIRED ACCESSORIES, SINGLE POINT POWER CONNECTION, FACTORY OUTSIDE AIR HOOD WITH MOTORIZED DAMPER, FACTORY RELIEF HOOD WITH MOTORIZED DAMPER, FACTORY INSTALLED DISCONNECT SWITCH, FACTORY POWERED DUPLEX ELECTRICAL CONVENIENCE OUTLET, FACTORY HAIL GUARD, STAINLESS STEEL CONDENSATE DRAIN PAN AND 2" PLEATED MERV 8 FILTERS.
7. **NO ECONOMIZER REQUIRED PER DCM EXCEPTION TO ASHRAE STANDARD 90.1 2013.**
8. PROVIDE R-454B REFRIGERANT.
9. **UNIT REQUIRES REFRIGERANT MONITOR**.

NOTE:
PAC-2 ONLY IN THIS SCHEDULE - REFER TO MECH. SPEC. SECTION 15050 GENERAL HVAC REQUIREMENTS FOR "BPI" CALCULATIONS. NEEDLEPOINT BIPOLAR IONIZATION DEVICES SHALL DE-ENERGIZE WHEN AHU SUPPLY FAN SHUTS DOWN.

DUCTLESS MINI-SPLIT A/C UNIT SCHEDULE

SYMBOL	DESCRIPTION/ TONNAGE	SUPPLY AIR CFM	EXT. S.P. INCHES H_2O	COOLING TOTAL MBH	COOLING SEN MBH	EER/SEER	HEATING TOTAL MBH	INDOOR ELEC.	OUTDOOR ELEC.	BASED ON MITSUBISHI MODEL (OR APPROVED EQUAL)	REMARKS
IMS/OMS-1	CEILING MOUNTED (1-TON - HEAT PUMP)	230-335	.15	12.0	8.4	12.5/20.3	15.0	208/1/60	208/1/60	INDR - SLZ-AF12NL OUTDR - SUZ-AA12NL	1,2,3,4,5,6,7,8
IMS/OMS-2	WALL MOUNTED (.75-TON - CLG. ONLY)	151-448	.15	12.2	8.5	15.4/28.4	---	208/1/60	208/1/60	INDR - MSY-GX09NL OUTDR - MUY-GX09NL	1,2,3,4,5,6,7,8
IMS/OMS-3	WALL MOUNTED (1.5-TON - CLG. ONLY)	324-650	.15	22.0	15.4	14.05/22.5	---	208/1/60	208/1/60	INDR - MSY-GX18NL OUTDR - MUY-GX18NL	1,2,3,4,5,6,7,8
IMS/OMS-4	WALL MOUNTED (1-TON - CLG. ONLY)	151-448	.15	14.0	9.8	13.35/25.6	---	208/1/60	208/1/60	INDR - MSY-GX12NL OUTDR - MUY-GX12NL	1,2,3,4,5,6,7,8
IMS/OMS-5	WALL MOUNTED (1.5-TON - CLG. ONLY)	324-650	.15	22.0	15.4	14.05/22.5	---	208/1/60	208/1/60	INDR - MSY-GX18NL OUTDR - MUY-GX18NL	1,2,3,4,5,6,7,8

SCHEDULE NOTES:
1. COOLING: CAPACITY BASED ON EDB 80° F., EWB 67° F. AND AMBIENT 95° F.
2. HEATING: CAPACITY BASED ON EWB 70° F., AMBIENT DB 47° F., AMBIENT RH 70°.
3. RATED IN ACCORDANCE WITH AHRI STANDARD 210-81.
4. PROVIDE R-454B REFRIGERANT, FACTORY FILTERS AND DISCONNECT SWITCH.
5. PROVIDE WIRED WALL MOUNTED CONTROLLER. LOCATED AS SHOWN ON DRAWINGS.
6. PROVIDE SINGLE POINT POWER CONNECTION FOR OUTDOOR UNIT. ALL WIRING, TRANSFORMERS, ETC. SHALL BE FACTORY INSTALLED.
7. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CONDENSATE PUMP EQUAL TO ASPEN PERISTALIC FOR CONDENSATE DRAINAGE. MAINTAIN SERVICE ACCESS TO PUMP. EXPOSED PIPING OR PUMPS WILL NOT BE ACCEPTED UNLESS NOTED OTHERWISE.
   NOTE: SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
8. PROVIDE "EZ-IN" MINI-SPLIT WIRE/CABLE FROM OUTDOOR UNIT TO INDOOR UNIT.

SPLIT SYSTEM UNIT SCHEDULE

	SYMBOL	EVAP. FAN TOTAL CFM	O.A. CFM MIN.	O.A. CFM MAX.	EXT. SP. "H20	HP	COOLING MIN. (1) TOTAL MBH	SEN MBH	EER/SEER	HEATING MIN. TOTAL MBH	COP (2)	ELEC. KW	ELEC.	HSPF	OUTDOOR ELEC.	MAX. AHRI SOUND RATING	BASIS OF DESIGN (TRANE OR APPROVED EQUAL)	REMARKS
3.5-TON	IHP/OHP-1	1400	100	100	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-2	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-3	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-4	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-5	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-6	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-7	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-8	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-9	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-10	1200	100	100	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
4-TON	IHP/OHP-11	1600	100	100	.5	.75	46.4	34.5	12.0/15.2	44.0	4.2	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-12	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-13	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-14	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-15	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3-TON	IHP/OHP-16	1200	105	105	.5	.5	33.8	24.6	12.0/14.3	32.0	4.1	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-17	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-18	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11
3.5-TON	IHP/OHP-19	1400	105	105	.5	.5	39.0	27.8	12.0/15.0	39.0	3.9	9.6	480/3/60	8.0	480/3/60	86.0 dB	5TEM/5TWA	1,2,3,4,5,6,7,8,9,10,11

SCHEDULE NOTES:
1. CAPACITY BASED ON EDB 80 DEGREES F, EWB 67 DEGREES F AND AMBIENT 95 DEGREES F.
2. CAPACITY BASED ON EDB 70 DEGREES F, AMBIENT DB 47 DEGREES F AND AMBIENT RH 70%.
3. RATED IN ACCORDANCE WITH AHRI STANDARD 210-81.
4. FILTER SECTION W/2" PLEATED FILTER. E-Z FILTER BASE MFG. INC. MODEL E-Z OR EQUIVALENT.
5. PROVIDE SINGLE-STAGE COOLING AND TWO-STAGE HEATING.
6. PROVIDE SINGLE POINT POWER CONNECTION FOR INDOOR UNIT. ALL WIRING, TRANSFORMERS, ECT. SHALL BE FACTORY INSTALLED. PROVIDE DISCONNECTS FOR INDOOR AND OUTDOOR UNITS.
7. PROVIDE LONG-LINE KITS FOR ALL REFRIGERANT LINE-SETS THAT EXTEND BEYOND 80'-0".
8. CONSTANT VOLUME HEAT PUMP OPERATION.
9. PROVIDE R-454B REFRIGERANT.
10. PROVIDE "GPS-FC24-AC" NEEDLEPOINT BIPOLAR IONIZATION SYSTEM OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. NEEDLEPOINT BIPOLAR IONIZATION SHALL BE TURNED ON/OFF WITH INDOOR UNIT. PROVIDE DISCONNECT SWITCH.
11. **UNIT REQUIRES REFRIGERANT MONITOR.**

NOTE:
REFER TO MECH. SPEC. SECTION 15050 GENERAL HVAC REQUIREMENTS FOR "BPI" CALCULATIONS. NEEDLEPOINT BIPOLAR IONIZATION DEVICES SHALL DE-ENERGIZE WHEN AHU SUPPLY FAN SHUTS DOWN.

ELECTRIC HEATER SCHEDULE

SYMBOL	CFM	HEATING KW	STEPS	ELEC.	REMARKS
EH-1	245	3	1	277/1/60	1

SCHEDULE NOTES:
1. MARKEL MODEL 3450 WALL MOUNTED HEATER RECESSED IN WALL (UNLESS NOTED OTHERWISE) WITH HORIZONTAL DISCHARGE. PROVIDE UNIT MOUNTED THERMOSTAT, FACTORY DISCONNECT SWITCH AND WALL RECESS KIT.

DEHUMIDIFIER SCHEDULE

SYMBOL	TOTAL CFM	EXT. SP H_2O	CAP. ppd	MAX. AMP DRAW	ELECTRICAL	SOUND RATING (dBA)	REMARKS	MODEL # (OR APP. EQUAL)
DH-1 THRU DH-19	245	0.2	100	6.9	120/1/60	55	1,2,3,4	APRILAIRE E100

SCHEDULE NOTES:
1. CAPACITY BASED ON 80 DEGREES F., EWB 60% R.H. (ANSI/AHAM DH-1-2003).
2. PROVIDE FACTORY FILTER SECTION, DUCTWORK, INLET AND OUTLET, CONDENSATE DRAIN, CONDENSATE PUMP (IF REQUIRED), INSULATED CABINET, FACTORY DEHUMIDIFICATION CONTROL AND, TRANSFORMER, CONDENSATE OVERFLOW SAFETY SWITCH AND BACK-DRAFT DAMPER. SEE ELECTRICAL PLANS FOR DISCONNECT.
3. UNIT SHALL BE WIRED WITH FACTORY INSTALLED PLUG **(VERIFY LOCAL AND STATE CODE REQUIREMENTS FOR WIRING). SEE ELECTRICAL PLANS.**
4. PROVIDE A RELAY THAT WILL ENERGIZE THE ASSOCIATED AIR HANDLING UNIT FAN WHEN THE DEHUMIDIFIER IS ENERGIZED.

AIR DISTRIBUTION SCHEDULE

SYMBOL	MAX. N.C. SONES	MAX. VEL. FPM	MODEL	DESCRIPTION	REMARKS
A	25	500	TITUS TDCA-AA	6"X6" LOUVERED FACE DIFFUSER	1,2,3,4,5,6
B	25	500	TITUS TDCA-AA	8"X8" LOUVERED FACE DIFFUSER	1,2,3,4,5,7
C	25	500	TITUS TDCA-AA	10"X10" LOUVERED FACE DIFFUSER	1,2,3,4,5,8
D	25	500	TITUS TDCA-AA	12"X12" LOUVERED FACE DIFFUSER	1,2,3,4,5,9
G	25	500	TITUS 50F	1/2" X 1/2" X1/2" EGGCRATE GRILLE (24"X24" UNLESS NOTED OTHERWISE)	1,2,3,5
H	25	500	TITUS 50F	1/2" X 1/2" X1/2" EGGCRATE GRILLE (12"X12" UNLESS NOTED OTHERWISE)	1,2,3,5
I	25	500	TITUS 300FS	SIDEWALL SUPPLY REGISTER	1,2,4,5,11
J	25	500	TITUS 33R	HEAVY DUTY SIDEWALL RETURN REGISTER	1,2,4,5,10

SCHEDULE NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
2. PROVIDE OFF-WHITE FINISH. VERIFY WITH ARCHITECT/OWNER PRIOR TO ORDERING.
3. EXTEND 24" X 24" PANEL IN LAY-IN CEILING. SURFACE MOUNT IN GYP. BOARD CEILING.
4. PROVIDE OPPOSED BLADE DAMPER WITH EXTERNAL ADJUSTMENT.
5. PROVIDE TRANSITION ADAPTER AS REQUIRED. ROUND TO REC. OR REC. TO REC. OR ROUND TO ROUND.
6. PROVIDE 6" ROUND RUNOUT UNLESS OTHERWISE NOTED.
7. PROVIDE 8" ROUND RUNOUT UNLESS OTHERWISE NOTED.
8. PROVIDE 10" ROUND RUNOUT UNLESS OTHERWISE NOTED.
9. PROVIDE 12" ROUND RUNOUT UNLESS OTHERWISE NOTED.
10. INSTALL WITH FRONT BLADES PARALLEL TO FLOOR.
11. INSTALL WITH FRONT BLADES PERPENDICULAR TO FLOOR.

HOOD SCHEDULE

SYMBOL	TYPE	EXT. SP H_2O	LOREN COOK MODEL	CFM	REMARKS	ACTUAL DIMENSIONS
H-1	R	.05	16X24 GR	840	1	35x39x13.46
H-2	I	.05	8 PR	100	2	18.75 DIA.
H-3	I	.05	8 PR	210	2	18.75 DIA.
H-4	R	.05	16 PR	630	2	27.75 DIA.
H-5	I	.05	12 PR	420	2	27.75 DIA.
H-6	R	.05	8 PR	140	2	18.75 DIA.
H-7	I	.05	12 PR	420	2	27.75 DIA.
H-8	R	.05	8 PR	140	2	18.75 DIA.

SCHEDULE NOTES:
I = INTAKE, R = RELIEF
1. BASED ON COOK MODEL GI/GR OR APPROVED EQUAL BY PENN OR GREENHECK. PROVIDE BIRDSCREEN AND 14" TALL ROOF CURB. PROVIDE FACTORY DARK BRONZE BAKED ENAMEL FINISH ON CURB AND HOOD.
2. BASED ON COOK MODEL PRF OR APPROVED EQUAL BY PENN OR GREENHECK. PROVIDE BIRDSCREEN, LOW PROFILE CURB AND FLASHING FLANGE. PROVIDE FACTORY DARK BRONZE BAKED ENAMEL FINISH ON CURB AND HOOD.

EXHAUST FAN SCHEDULE

SYMBOL	CFM	EXT. S.P. INCHES H_2O	MAX. RPM	SONES	POWER	ELECTRICAL	REMARKS	CONTROL/ INTERLOCK
EF-1,2,3,11,12, 13,16,17,18	70	.5	1075	2.0	35.5 W	277/1/60	1,2	LT. SW./ OCC. SENS.
EF-6,7,8,9,10	70	.75	1450	3.0	69.7 W	277/1/60	1,2	LT. SW./ OCC. SENS.
EF-4,5	350	.5	1400	2.5	108.0 W	277/1/60	1,2	LT. SW./ OCC. SENS.
EF-14,15	280	.5	1400	2.0	92.5 W	277/1/60	1,2	LT. SW./ OCC. SENS.
EF-19	150	.5	1500	2.5	59.5 W	277/1/60	1,2	T-STAT/HUMID. SENSOR

SCHEDULE NOTES:
1. COOK MODEL GC CEILING MOUNTED EXHAUST FAN OR APPROVED EQUAL.
2. PROVIDE BACK-DRAFT DAMPER, SPEED CONTROLLER, FACTORY MOUNTED VOLTAGE TRANSFORMER AND FACTORY DISCONNECT SWITCH.

LATHAN McKEE ARCHITECTS

MORRIS DAVIS ENGINEERING LLC
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PROJECT NO: 25-148

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL SCHEDULES

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 16984 JAMES H. MORRIS 1/14/2026

PROJ. MGR.: JBB/JHM
DRAWN: JBB
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
M4.1

0 1" 2"

NOTE:
REFER TO MECH. SPEC. SECTION 15050 GENERAL HVAC REQUIREMENTS FOR "BPI" CALCULATIONS. NEEDLEPOINT BIPOLAR IONIZATION DEVICES SHALL DE-ENERGIZE WHEN AHU SUPPLY FAN SHUTS DOWN.

2021 IMC VENTILATION CALCULATIONS

EQUATION 4-1	Vbz = RpPz + RaAz
TABLE 403.3.1.2	Ez = 1
EQUATION 4-2	$Voz = \frac{Vbz}{Ez}$
EQUATION 4-4	Vot = ∑ all zones Voz
EQUATION 4-5	Zp = Voz/Vpz
EQUATION 4-6	Vou = D X ∑ all zones (RpPz) + ∑ all zones (RaAz)
EQUATION 4-7	$D = \frac{Pz}{\sum Pz}$
EQUATION 4-8	$Vot = \frac{Vou}{Ev}$

NOTE:

UNITS APPLYING TO 2021 IMC 403.2 (NEEDLEPOINT BI-POLAR IONIZATION) ARE AS FOLLOWS:

IHP/OHP-1 THRU IHP/OHP-19
PHP-1 AND PAC-2

UNITS APPLYING TO 2021 IMC 403.3 (STANDARD VENTILATION REQUIREMENT) ARE AS FOLLOWS:

PAC-1

2021 INTERNATIONAL MECHANICAL CODE REQUIRED OUTDOOR VENTILATION AIR TABLE 403.3

UNIT TAG	ROOM	ROOM CLASSIFICATION PER TABLE 403.3	AREA FT^2 (Az)	EST. OCC. LOAD (Pz)	OCC. O.A RATE PER PERSON (Rp)	AREA O.A. RATE PER FT² (Ra)	TOTAL OCC. O.A. RATE (CFM) (RpPz)	TOTAL AREA O.A. RATE (CFM) (RaAz)	TOTAL O.A.(CFM) (RpPz)+(RaAz)= (Vbz)	ZONE O.A. (CFM) (Voz)	O.A. INTAKE FLOW (CFM) (Vot)	ZONE AIR DISTRUBUTION EFFECTIVENESS (Ez)
PAC-1	CAFETERIA B108	Cafeteria, Fast Food	3077	308	7.5	0.18	2310	553.86	2863.86	2863.86	2863.86	1
	TABLE/CHAIR STORAGE B111	Storage Rooms	440	0	0	0.12	0	52.8	52.8	66	66	0.8
	STORAGE B109	Storage Rooms	411	0	0	0.12	0	49.32	49.32	61.65	61.65	0.8
								655.98			2991.51	
PAC-2	GYMNASIUM B112	Gym, Stadium, Arena (play area)	2677	19	20	0.18	380	481.86	861.86	861.86	861.86	1
	GYMNASIUM B112	Spectator Areas	268	103	7.5	0.06	772.5	16.08	788.58	788.58	788.58	1
	STORAGE B109	Storage Rooms	387	0	0	0.12	0	46.44	46.44	58.05	58.05	0.8
								544.38			1708.49	
PHP-1	GYMNASIUM B112	Gym, Stadium, Arena (play area)	2677	19	20	0.18	380	481.86	861.86	861.86	861.86	1
	GYMNASIUM B112	Spectator Areas	268	103	7.5	0.06	772.5	16.08	788.58	788.58	788.58	1
	MECH./ELEC. B117	Storage Rooms	225	0	0	0.12	0	27	27	33.75	33.75	0.8
	OFFICE B116	Office Spaces	112	1	5	0.06	5	6.72	11.72	14.65	14.65	0.8
								531.66			1698.84	
IHP-1	STORAGE B102	Storage Rooms	320	0	0	0.12	0	38.4	38.4	48	48	0.8
	CORRIDOR B101	Corridors	1128	0	0	0.06	0	67.56	67.56	84.45	84.45	0.8
	STORAGE B105	Storage Rooms	172	0	0	0.12	0	20.64	20.64	25.8	25.8	0.8
	CLOSET B104b	Storage Rooms	23	0	0	0.12	0	2.76	2.76	3.45	3.45	0.8
								129.36			161.7	
IHP-2	CLASSROOM A138	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
IHP-3	CLASSROOM A145	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
IHP-4	CLASSROOM A140	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
IHP-5	CLASSROOM A143	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
IHP-6	CLASSROOM A134	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
	CORRIDOR A137	Corridors	306	0	0	0.06	0	18.36	18.36	22.95	22.95	0.8
								116.64			408.3	
IHP-7	CLASSROOM A132	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
	CORRIDOR A137	Corridors	306	0	0	0.06	0	18.36	18.36	22.95	22.95	0.8
								116.64			408.3	
IHP-8	CLASSROOM A136	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
	CORRIDOR A137	Corridors	459	0	0	0.06	0	27.54	27.54	34.425	34.425	0.8
								125.82			419.775	
IHP-9	CLASSROOM A130	Classrooms (age 5 8)	819	21	10	0.12	210	98.28	308.28	385.35	385.35	0.8
	CORRIDOR A137	Corridors	459	0	0	0.06	0	27.54	27.54	34.425	34.425	0.8
								125.82			419.775	
IHP-10	NURSING A128	Health Club/Weight Room	304	3	20	0.06	60	18.24	78.24	97.8	97.8	0.8
	CORRIDOR A111	Corridors	958	0	0	0.06	0	57.48	57.48	71.85	71.85	0.8
	STORAGE A126	Storage Rooms	44	0	0	0.12	0	5.28	5.28	6.6	6.6	0.8
								81			176.25	
IHP-11	WORK ROOM A129	Office Spaces	270	3	5	0.06	15	16.2	31.2	39	39	0.8
	SECURE VESTIBULE A101	Corridors	303	0	0	0.06	0	18.18	18.18	22.725	22.725	0.8
	WAITING A102	Office Spaces	133	3	5	0.06	15	7.98	22.98	28.725	28.725	0.8
	PRINCIPAL A105	Office Spaces	238	3	5	0.06	15	14.28	29.28	36.6	36.6	0.8
	STORAGE A106	Storage Rooms	43	0	0	0.12	0	5.16	5.16	6.45	6.45	0.8
	RECEPTION A103	Reception Areas	249	3	5	0.06	15	14.94	29.94	37.425	37.425	0.8
								76.74			170.925	
IHP-12	CLASSROOM A114	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
IHP-13	CLASSROOM A108	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
IHP-14	CLASSROOM A112	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
IHP-15	CLASSROOM A110	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
	CORRIDOR A111	Corridors	419	0	0	0.06	0	25.14	25.14	31.425	31.425	0.8
								125.46			419.325	
IHP-16	CLASSROOM A125	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
IHP-17	CLASSROOM A118	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
	CORRIDOR A121	Corridors	462	0	0	0.06	0	27.72	27.72	34.65	34.65	0.8
								128.04			422.55	
IHP-18	CLASSROOM A123	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
	CONNECTOR A122	Corridors	205	0	0	0.06	0	12.3	12.3	15.375	15.375	0.8
								112.62			403.275	
IHP-19	CLASSROOM A120	Classrooms (age 5 8)	836	21	10	0.12	210	100.32	310.32	387.9	387.9	0.8
	CORRIDOR A121	Corridors	459	0	0	0.06	0	27.54	27.54	34.425	34.425	0.8
								127.86			422.325	

***NOTE:** REFER TO MECHANICAL SPECIFICATION SECTION 23 0500 - GENERAL HVAC REQUIREMENTS (END OF SPEC. SECTION) FOR BIPOLAR IONIZATION OUTDOOR VENTILATION CFMS.*

LATHAN ▪McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL OUTDOOR AIR VENTILATION CALCULATIONS

PROJ. MGR.:	JBB/JHM
DRAWN:	JBB
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

M4.2

MORRIS DAVIS ENGINEERING LLC
903 SOUTH PERRY STREET
MONTGOMERY, AL 36104
T. (334) 269-0329
www.Jmorriseng.com
PROJECT NO: 25-148

EFFECTIVE DISPERSAL VOLUME CHARGE (EDVC) IN COMPLIANCE WITH ASHRAE STANDARD 15 SECTION 7.6.1.1 (REFRIGERATION SYSTEMS WITH AIR CIRCULATION) - EDVC = V_{eff} x LFL x CF x F_{occ}

TAG	REFRIGERANT	RELEASABLE REFRIGERANT CHARGE	SPACE(S) SERVED	AREA (SQ FT)	HEIGHT (FT)	V_{eff}	LFL	CF	F_{occ}	EDVC	COMPLIES WITH ASHRAE STD 15	REMEDY FOR NONCOMPLIANCE
PAC-1	R-454B		CAFETERIA B108	3077	18	55386						
			TABLE/CHAIR STORAGE B111	440	10	4400						
			STORAGE B109	411	10	4110						
PAC-1 TOTAL	R-454B	14.6				63896	18.3	0.5	1	584.65	YES	N/A
PAC-2	R-454B		GYMNASIUM B112	2677	28	74956						
			GYMNASIUM B112	268	28	7504						
			STORAGE B109	387	10	3870						
PAC-2 TOTAL	R-454B	14.6				86330	18.3	0.5	1	789.92	YES	N/A
PHP-1	R-454B		GYMNASIUM B112	2677	28	74956						
			GYMNASIUM B112	268	28	7504						
			MECH./ELEC. B117	225	10	2250						
			OFFICE B116	112	10	1120						
PHP-1 TOTAL	R-454B	38				85830	18.3	0.5	1	785.34	YES	N/A
IHP-1	R-454B		STORAGE B102	320	10	3200						
			CORRIDOR B101	1126	10	11260						
			STORAGE B105	172	10	1720						
			CLOSET B104b	23	10	230						
IHP-1 TOTAL	R-454B	7.9				16410	18.3	0.5	1	150.15	YES	N/A
IHP-2	R-454B		CLASSROOM A138	819	10	8190						
IHP-2 TOTAL	R-454B	5.6				8190	18.3	0.5	1	74.94	YES	N/A
IHP-3	R-454B		CLASSROOM A145	819	10	8190						
IHP-3 TOTAL	R-454B	5.6				8190	18.3	0.5	1	74.94	YES	N/A
IHP-4	R-454B		CLASSROOM A140	819	10	8190						
IHP-4 TOTAL	R-454B	5.6				8190	18.3	0.5	1	74.94	YES	N/A
IHP-5	R-454B		CLASSROOM A143	819	10	8190						
IHP-5 TOTAL	R-454B	5.6				8190	18.3	0.5	1	74.94	YES	N/A
IHP-6	R-454B		CLASSROOM A134	819	10	8190						
			CORRIDOR A137	306	10	3060						
IHP-6 TOTAL	R-454B	7.9				11250	18.3	0.5	1	102.94	YES	N/A
IHP-7 TOTAL	R-454B		CLASSROOM A132	819	10	8190						
			CORRIDOR A137	306	10	3060						
IHP-7 TOTAL	R-454B	7.9				11250	18.3	0.5	1	102.94	YES	N/A
IHP-8 TOTAL	R-454B		CLASSROOM A136	819	10	8190						
			CORRIDOR A137	459	10	4590						
IHP-8 TOTAL	R-454B	7.9				12780	18.3	0.5	1	116.94	YES	N/A
IHP-9	R-454B		CLASSROOM A130	819	10	8190						
			CORRIDOR A137	459	10	4590						
IHP-9 TOTAL	R-454B	7.9				12780	18.3	0.5	1	116.94	YES	N/A
IHP-10	R-454B		NURSING A128	304	10	3040						
			CORRIDOR A111	958	10	9580						
			STORAGE A126	44	10	440						
IHP-10 TOTAL	R-454B	5.6				13060	18.3	0.5	1	119.50	YES	N/A
IHP-11	R-454B		WORK ROOM A129	270	10	2700						
			SECURE VESTIBULE A101	303	10	3030						
			WAITING A102	133	10	1330						
			PRINCIPAL A105	238	10	2380						
			STORAGE A106	43	10	430						
			RECEPTION A103	249	10	2490						
IHP-11 TOTAL	R-454B	8.6				12360	18.3	0.5	1	113.09	YES	N/A
IHP-12	R-454B		CLASSROOM A114	836	10	8360						
IHP-12 TOTAL	R-454B	5.6				8360	18.3	0.5	1	76.49	YES	N/A
IHP-13	R-454B		CLASSROOM A108	836	10	8360						
IHP-13 TOTAL	R-454B	5.6				8360	18.3	0.5	1	76.49	YES	N/A
IHP-14	R-454B		CLASSROOM A112	836	10	8360						
IHP-14 TOTAL	R-454B	5.6				8360	18.3	0.5	1	76.49	YES	N/A
IHP-15	R-454B		CLASSROOM A110	836	10	8360						
			CORRIDOR A111	419	10	4190						
IHP-15 TOTAL	R-454B	7.9				12550	18.3	0.5	1	114.83	YES	N/A
IHP-16	R-454B		CLASSROOM A125	836	10	8360						
IHP-16 TOTAL	R-454B	5.6				8360	18.3	0.5	1	76.49	YES	N/A
IHP-17	R-454B		CLASSROOM A118	836	10	8360						
			CORRIDOR A121	462	10	4620						
IHP-17 TOTAL	R-454B	7.9				12980	18.3	0.5	1	118.77	YES	N/A
IHP-18	R-454B		CLASSROOM A123	836	10	8360						
			CONNECTOR A122	205	10	2050						
IHP-18 TOTAL	R-454B	7.9				10410	18.3	0.5	1	95.25	YES	N/A
IHP-19	R-454B		CLASSROOM A120	836	10	8360						
			CORRIDOR A121	459	10	4590						
IHP-19 TOTAL	R-454B	7.9				12950	18.3	0.5	1	118.49	YES	N/A

EFFECTIVE DISPERSAL VOLUME CHARGE (EDVC) IN COMPLIANCE WITH ASHRAE STANDARD 15 SECTION 7.6.1.2 (OTHER REFRIGERATION SYSTEMS) - EDVC = M_{def} x F_{LFL} x F_{occ}

TAG	REFRIGERANT	RELEASABLE REFRIGERANT CHARGE	SPACE(S) SERVED	AREA (SQ FT)	HEIGHT (FT)	M_{def}	F_{LFL}	F_{occ}	EDVC	COMPLIES WITH ASHRAE STD 15	REMEDY FOR NONCOMPLIANCE
IMS-1	R-454B	2	OFFICE B116	112	10	8.6	0.9	1	7.74	YES	N/A

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL REFRIGERANT CALCULATIONS

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 19984
1/14/2026
JAMES H. MORRIS

PROJ. MGR.: JBB/JHM
DRAWN: JBB
DATE: 1-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO:
M4.3

0 1" 2"

MORRIS DAVIS ENGINEERING LLC
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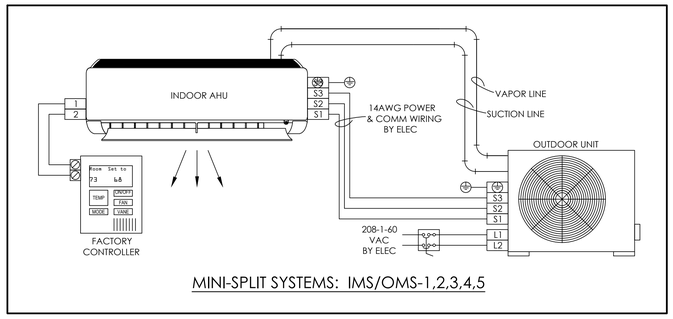
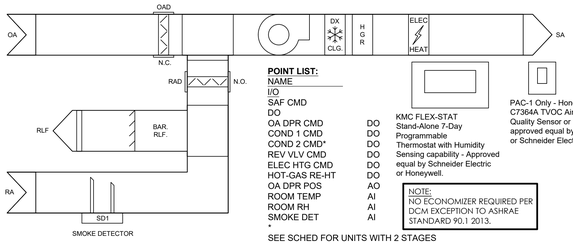
PROJECT NO: 25-148



MINI-SPLIT SYSTEMS: IMS/OMS-1,2,3,4,5

NOTE:
HVAC CONTROLS SHALL BE INSTALLED BY HVAC CONTROLS CONTRACTOR WITH MINIMUM 5-YEARS OF EXPERIENCE.



POINT LIST:

NAME	I/O
SAF CMD	DO
OA DPR CMD	DO
COND 1 CMD	DO
COND 2 CMD*	DO
REV VLV CMD	DO
ELEC HTG CMD	DO
HOT-GAS RE-HT	DO
OA DPR POS	AO
ROOM TEMP	AI
ROOM RH	AI
SMOKE DET	AI

*
SEE SCHED FOR UNITS WITH 2 STAGES

KMC FLEX-STAT
Stand-Alone 7-Day
Programmable
Thermostat with Humidity
Sensing capability - Approved
equal by Schneider Electric
or Honeywell.

PAC-1 Only - Honeywell
C7364A TVOC Air
Quality Sensor or
approved equal by KMC
or Schneider Electric.

NOTE:
NO ECONOMIZER REQUIRED PER DCM EXCEPTION TO ASHRAE STANDARD 90.1 2013.

Packaged Cooling/Elec. Heat, T-Stat, Humidistat, Hot-Gas Re-Heat (PAC-1,2) - PAC-1 shall have IAQ Sensor

SEQUENCE OF OPERATION - SINGLE-ZONE CONSTANT-VOLUME PACKAGED UNIT WITH ELEC. HEAT

- EACH PACKAGE UNIT IS A SINGLE-ZONE, CONSTANT AIR VOLUME SYSTEM WITH A MODULATING OUTSIDE AIR DAMPER, TWO-SPEED VFD CONTROLLED SUPPLY AIR FAN, DX COIL, ELEC. HEAT, HOT-GAS RE-HEAT FOR DEHUMIDIFICATION, AND A TOUCH-SCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH BUILT-IN HUMIDITY SENSING CAPABILITY - PAC-1 SHALL HAVE IAQ SENSOR.

LOCAL SCHEDULE:

- A LOCAL SCHEDULE (7 DAYS. 2 OR 4 EVENTS) INTERNAL TO THE CONTROLLER IS USED TO TRIGGER THE DIFFERENT OCCUPANCY LEVELS OP THE CONTROLLER. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PROGRAMING EACH THERMOSTATS OCCUPIED AND UNOCCUPIED PERIOD(S).

SMOKE DETECTOR (FOR UNITS 2000 CFM AND LARGER):

- PROVIDE A SMOKE DETECTOR IN THE RETURN AIR DUCTWORK BEFORE MIXING WITH OUTSIDE AIR DUCTWORK. UNIT SHALL SHUT-DOWN UPON SMOKE DETECTOR ACTIVATION.

  SMOKE DETECTOR SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

OCCUPIED MODE:

- THE OCCUPIED COOLING AND HEATING SET-POINTS ARE USED (COOLING: 75 °F; HEATING: 68 °F). THE OCCUPIED SPACE TEMPERATURES SETPOINTS FOR THE UNITS WILL BE ADJUSTABLE (+/-3°F) AT THE LOCAL THERMOSTAT.

UNOCCUPIED MODE:

- DURING UNOCCUPIED PERIODS, THE UNOCCUPIED HEATING & COOLING SET-POINTS ARE USED. (COOLING: 85 °F; HEATING: 55 °F).
- THE UNOCCUPIED SPACE TEMPERATURES SET-POINTS FOR THE UNITS WILL BE ADJUSTABLE AT THE LOCAL THERMOSTAT.

LOCAL OVERIDE:

- THE CONTROLLER WILL REVERT BACK TO THE OCCUPIED MODE AS SPECIFIED BY A CONFIGURATION TIMER WHEN A LOCAL OVERIDE IS REQUESTS AT THE CONTROLLER .

FAN MODE OPERATION:

- THE SUPPLY FAN CAN BE SET TO EITHER AUTOMATIC ON DEMAND) OR ALWAYS ON. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS. DURING UNOCCUPIED PERIODS, FAN SHALL CYCLE ON A CALL FOR EITHER HEATING OR COOLING.

ON A CALL FOR COOLING:

- THE UNIT WILL START THE COMPRESSOR AND WILL OPERATE ACCORDING TO DEMAND.

ON A CALL FOR HEATING:

- THE UNIT WILL START THE ELEC. HEAT AND OPERATE ACCORDING TO DEMAND. DEHUMIDIFICATION IS NOT AUTHORIZED DURING HEATING OPERATION.

OUTSIDE AIR DAMPER:

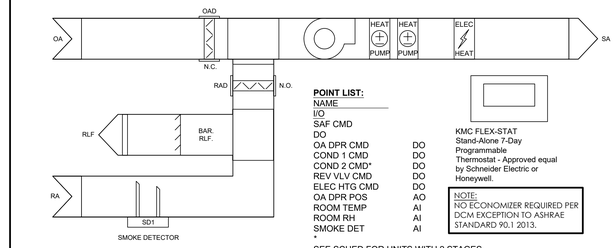
- DURING OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL OPEN.
- OUTSIDE AIR DAMPER SHALL BE SET BY TEST & BALANCE CONTRACTOR TO ACHIEVE SCHEDULED MIN. AND MAX. OUTSIDE AIR CFM.
- UPON SHUTDOWN OR DURING ALL UNOCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL CLOSE.

IAQ CONTROL:

- UPON A RISE IN SPACE VOC/CO2 LEVELS ABOVE SET-POINT, THE OUTSIDE AIR DAMPER SHALL BE COMMANDED FULLY OPEN (MAX. POSITION).
- OUTSIDE AIR DAMPER SHALL REVERT BACK TO MIN. POSITION AFTER SPACE VOC/CO2 LEVELS HAVE BEEN AT SAFE LEVELS FOR 5-MIN.

ON A DEMAND FOR DEHUMIDIFICATION:

- DEHUMIDIFICATION IS ACHIEVED VIA HOT-GAS RE-HEAT.
- HOT-GAS RE-HEAT IS ENABLED IF THE SPACE RELATIVE HUMIDITY EXCEEDS SETPOINT.
- HOT-GAS RE-HEAT IS DISABLED ONCE THE SPACE RELATIVE HUMIDITY HAS BEEN BELOW MAXIMUM SETPOINT FOR 5MIN OR IS BELOW MINIMUM SETPOINT.
- DEHUMIDIFICATION IS DISABLED IF THE ROOM TEMPERATURE FALLS BELOW THE ROOM LOW-AMBIENT DEHUMIDIFICATION TEMPERATURE (37 BELOW HEATING SETPOINT).



POINT LIST:

NAME	I/O
SAF CMD	DO
OA DPR CMD	DO
COND 1 CMD	DO
COND 2 CMD*	DO
REV VLV CMD	DO
ELEC HTG CMD	DO
OA DPR POS	AO
ROOM TEMP	AI
ROOM RH	AI
SMOKE DET	AI

*
SEE SCHED FOR UNITS WITH 2 STAGES

KMC FLEX-STAT
Stand-Alone 7-Day
Programmable
Thermostat - Approved equal
by Schneider Electric or
Honeywell.

NOTE:
NO ECONOMIZER REQUIRED PER DCM EXCEPTION TO ASHRAE STANDARD 90.1 2013.

Packaged Heat Pump, T-Stat: (PHP-1)

SEQUENCE OF OPERATION - SINGLE-ZONE CONSTANT-VOLUME PACKAGED HEAT PUMP UNIT

- EACH PACKAGE UNIT IS A SINGLE-ZONE, CONSTANT AIR VOLUME SYSTEM WITH A MODULATING OUTSIDE AIR DAMPER, TWO-SPEED VFD CONTROLLED SUPPLY AIR FAN, DX COIL, HEAT PUMP, ELECTRIC HEATER, AND A STANDALONE 7-DAY PROGRAMMABLE TOUCH-SCREEN THERMOSTAT.

LOCAL SCHEDULE:

- A LOCAL SCHEDULE (7 DAYS. 2 OR 4 EVENTS) INTERNAL TO THE CONTROLLER IS USED TO TRIGGER THE DIFFERENT OCCUPANCY LEVELS OP THE CONTROLLER. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PROGRAMING EACH THERMOSTATS OCCUPIED AND UNOCCUPIED PERIOD(S).

SMOKE DETECTOR (FOR UNITS 2000 CFM AND LARGER):

- PROVIDE A SMOKE DETECTOR IN THE RETURN AIR DUCTWORK BEFORE MIXING WITH OUTSIDE AIR DUCTWORK. UNIT SHALL SHUT-DOWN UPON SMOKE DETECTOR ACTIVATION.

  SMOKE DETECTOR SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

OCCUPIED MODE:

- THE OCCUPIED COOLING AND HEATING SET-POINTS ARE USED (COOLING: 75 °F; HEATING: 68 °F). THE OCCUPIED SPACE TEMPERATURE SET-POINTS WILL BE ADJUSTABLE (+/-3°F) AT THE LOCAL THERMOSTAT.

UNOCCUPIED MODE:

- DURING UNOCCUPIED PERIODS, THE UNOCCUPIED HEATING & COOLING SET-POINTS ARE USED. (COOING: 85 °F; HEATING: 55 °F).
- THE UNOCCUPIED SPACE TEMPERATURES SET-POINTS FOR THE UNITS WILL BE ADJUSTABLE AT THE LOCAL THERMOSTAT.

LOCAL OVERIDE:

- THE CONTROLLER WILL REVERT BACK TO THE OCCUPIED MODE AS SPECIFIED BY A CONFIGURATION TIMER WHEN A LOCAL OVERIDE IS REQUESTS AT THE CONTROLLER .

FAN MODE OPERATION:

- THE SUPPLY FAN CAN BE SET TO EITHER AUTOMATIC ON DEMAND) OR ALWAYS ON. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS. DURING UNOCCUPIED PERIODS, FAN SHALL CYCLE ON A CALL FOR EITHER HEATING OR COOLING.

ON A CALL FOR COOLING:

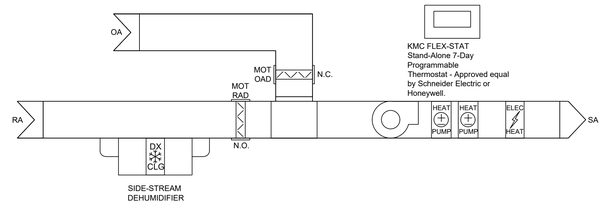
- THE UNIT WILL START THE COMPRESSOR AND WILL OPERATE ACCORDING TO DEMAND.

ON A CALL FOR HEATING:

- THE UNIT WILL START THE ELECTRIC HEAT AND OPERATE ACCORDING TO DEMAND. DEHUMIDIFICATION IS NOT AUTHORIZED DURING HEATING OPERATION.

OUTSIDE AIR DAMPER:

- DURING OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL OPEN.
- OUTSIDE AIR DAMPER SHALL BE SET BY TEST & BALANCE CONTRACTOR TO ACHIEVE SCHEDULED MIN. AND MAX. OUTSIDE AIR CFM.
- UPON SHUTDOWN OR DURING ALL UNOCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL CLOSE.



POINT LIST:

NAME	I/O
SAF CMD	DO
COND 1 CMD	DO
COND 2 CMD*	DO
REV VLV CMD	DO
ELEC HTG CMD	DO
OA DPR POS	AO
ROOM TEMP	AI

*
SEE SCHED FOR UNITS WITH 2 STAGES

Split System Heat Pump, T-Stat: (IHP-1 thru IHP-19)

SEQUENCE OF OPERATION - SINGLE-ZONE CONSTANT-VOLUME HEAT PUMP

EACH HEAT PUMP UNIT IS A SINGLE-ZONE, CONSTANT AIR VOLUME SYSTEM WITH A MODULATING OUTSIDE AIR DAMPER, CONSTANT-SPEED SUPPLY AIR FAN, HEAT PUMP, ELECTRIC HEATER, SIDE-STREAM DEHUMIDIFIER AND A STAND-ALONE 7-DAY PROGRAMMABLE TOUCH-SCREEN THERMOSTAT.

LOCAL SCHEDULE:

- A LOCAL SCHEDULE (7 DAYS. 2 OR 4 EVENTS) INTERNAL TO THE CONTROLLER IS USED TO TRIGGER THE DIFFERENT OCCUPANCY LEVELS OP THE CONTROLLER. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PROGRAMING EACH THERMOSTATS OCCUPIED AND UNOCCUPIED PERIOD(S).

OCCUPIED MODE:

- THE OCCUPIED COOLING AND HEATING SET-POINTS ARE USED (COOLING: 75 °F; HEATING: 68 °F). THE OCCUPIED SPACE TEMPERATURES SET-POINTS FOR THE UNITS WILL BE ADJUSTABLE (+/-3°F) AT THE LOCAL THERMOSTAT.

UNOCCUPIED MODE:

- DURING UNOCCUPIED PERIODS, THE UNOCCUPIED HEATING & COOLING SET-POINTS ARE USED. (COOLING: 85 °F; HEATING: 55 °F).
- THE UNOCCUPIED SPACE TEMPERATURES SET-POINTS FOR THE UNITS WILL BE ADJUSTABLE AT THE LOCAL THERMOSTAT.

LOCAL OVERIDE:

- THE CONTROLLER WILL REVERT BACK TO THE OCCUPIED MODE AS SPECIFIED BY A CONFIGURATION TIMER WHEN A LOCAL OVER-RIDE IS REQUESTS AT THE CONTROLLER .

FAN MODE OPERATION:

- THE SUPPLY FAN SHALL CYCLE ON A CALL FOR EITHER HEATING OR COOLING.

ON A CALL FOR COOLING:

- THE REVERSING VALVE WILL INDEX FOR COOLING AND THE COMPRESSOR WILL OPERATE ACCORDING TO DEMAND.

ON A CALL FOR HEATING:

- THE REVERSING VALVE WILL INDEX FOR HEATING AND THE COMPRESSOR WILL OPERATE ACCORDING TO DEMAND. ELECTRIC HEATING WILL OPERATE AS A SECOND STAGE. DEHUMIDIFICATION IS NOT AUTHORIZED DURING HEATING OPERATION.

OUTSIDE AIR DAMPER

- DURING OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL OPEN.
- OUTSIDE AIR DAMPER SHALL BE SET BY TEST & BALANCE CONTRACTOR TO ACHIEVE SCHEDULED OUTSIDE AIR CFM.
- UPON SHUTDOWN OR DURING ALL UNOCCUPIED PERIODS, OUTSIDE AR DAMPER SHALL CLOSE.

ON A DEMAND FOR DEHUMIDIFICATION:

- DEHUMIDIFICATION IS ACHIEVED VIA A SIDE-STREAM DEHUMIDIFIER IN THE RETURN AIR DUCT. DEHUMIDIFIER IS ENABLED IF THE SPACE RELATIVE HUMIDITY EXCEEDS SET-POINT.
- DEHUMIDIFIER IS DISABLED ONCE THE SPACE RELATIVE HUMIDITY HAS BEEN BELOW MAXIMUM SET-POINT FOR 5MIN OR IS BELOW MINIMUM SETPOINT.
- DEHUMIDIFICATION IS DISABLED IF THE ROOM TEMPERATURE FALLS BELOW THE ROOM LOW-AMBIENT DEHUMIDIFICATION TEMPERATURE (37 BELOW HEATING SETPOINT).

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PROJECT NO: 25-148

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE:
MECHANICAL CONTROL DIAGRAMS

PROJ. MGR.:	JBB/JHM
DRAWN:	JBB
DATE:	1-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO:

M5.1

0 1" 2"

ELECTRICAL SYMBOL LEGEND

LIGHTING SYSTEMS SYMBOLS:

A	CEILING FIXTURE, LETTER DENOTES TYPE OF FIXTURE.
B	LIGHTING FIXTURE, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
A 1	LED LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED. NUMBER (1) REPRESENTS CIRCUIT NUMBER, A REPRESENTS FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE).
	INDICATES EMERGENCY LIGHT FIXTURE.
	LED STRIP OR INDUSTRIAL FIXTURE. SURFACE MOUNTED OR SUSPENDED.
WP	WALL BRACKET, LETTER DENOTES TYPE OF FIXTURE.
	EXIT LIGHT SURFACE MOUNTED ON CEILING. ARROWS INDICATE WHAT DIRECTION FACE SHOULD BE IN AND WHERE ARROWS SHALL BE SHOWN. IF NO ARROWS ARE SHOWN, THEN ALIGN FACE INTO CORRIDOR OR OPEN ROOM WITH NO ARROWS.
	EXIT LIGHT BRACKET MOUNTED OVER DOOR OR WALL MOUNTED AS INDICATED.
S	SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
S_3	SWITCH, THREE-WAY, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
S_4	SWITCH, FOUR-WAY, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
S_{WP}	SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. MOUNT IN A WEATHERPROOF BOX AND COVER.
S_{VS}	LINE VOLTAGE VACANCY SENSOR SWITCH, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. MANUAL "ON" ONLY.
S_{OS}	LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH. FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
S_{DS}	LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH. FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. MANUAL "ON", MANUAL/ OCCUPANCY SENOR "OFF" WITH 0-10V DIMMING.
A	LOW VOLTAGE CONTROL SWITCH, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. LETTER REPRESENTS INDIVIDUAL SWITCH. SEE LOW VOLTAGE SWITCH SCHEDULE FOR BUTTON/RELAY CONFIGURATION ON SHEET E0.2.
VS	LOW VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED VACANCY SENSOR. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED LOCATION.
OS	LOW VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED LOCATION.
OS	LOW VOLTAGE, DUAL TECHNOLOGY, WALL MOUNTED OCCUPANCY SENSOR. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED LOCATION.
LC	ROOM CONTROLLER, 120V, THREE SINGLE POLE RELAY POWER PACK. CONNECT CONTROL DEVICES IN SAME ROOM WITH CABLING PER MANUFACTURER'S REQUIREMENTS. 0-10V DIMMING CAPABILITIES PROVIDE DIMMING CIRCUIT TO FIXTURES AS REQUIRED.
LC_T	ROOM CONTROLLER, TWO SINGLE POLE RELAY POWER PACK AND TIME FUNCTION. CONNECT CONTROL DEVICES IN SAME ROOM WITH CABLING PER MANUFACTURER'S REQUIREMENTS. 0-10V DIMMING CAPABILITIES PROVIDE DIMMING CIRCUIT TO FIXTURE AS REQUIRED.
OS_L	LINE VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMEND LOCATION.
XR	INDICATES EXISTING TO REMAIN AS IS.
XRL	INDICATES EXISTING POST TOP LIGHT TO BE REMOVED AND RELOCATED AS SHOWN.
NL	INDICATES NIGHT LIGHT, 24 HOUR OPERATION.
DR	REMOTE MOUNTED LED DRIVER. MUST BE MOUNTED IN ACCESSIBLE SPACE.

RACEWAY SYMBOLS:

—LV—	LOW VOLTAGE CABLE. CABLES SHALL BE ROUTED THROUGH CONDUIT ABOVE HARD CEILINGS. ORDER LENGTHS AS NECESSARY.
	BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL, 1/2"c. UNLESS NOTED, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN, MINIMUM #12 AWG COPPER.
	BRANCH CIRCUIT, EXPOSED IN BAR JOIST SPACE, BELOW CEILING OR ON WALLS. 1/2"c. UNLESS NOTED, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN, MINIMUM #12 AWG COPPER. ROUTE PERPENDICULAR AND PARALLEL WITH STRUCTURAL MEMBERS.
	BRANCH CIRCUIT, CONCEALED IN SLAB BELOW SLAB, OR BELOW GRADE, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN, MINIMUM #12 AWG COPPER.
	BRANCH CIRCUIT, HOMERUN TO PANEL, CIRCUIT SHOWN INDICATES 2#12 & 1#12(G)-1/2"c. TO ONE 20A/1P CIRCUIT BREAKER, INDICATES 4#12 & 1#12(G)-1/2"c. TO TWO 20A/1P BREAKERS, INDICATES 6#12 & 1#12(G)-1/2"c. TO THREE 20A/1P BREAKERS.
—10—	BRANCH CIRCUIT WITH #10 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN. NUMBER INDICATES CONDUCTOR SIZE.

GROUND SYSTEM SYMBOLS:

MGB	MASTER GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OFF MOUNT. BOND TO THE SERVICE ENTRANCE GROUND WITH #3/0 INSULATED GROUND. SEE DETAIL 1 ON SHEET E0.5.
GRB	DATA CLOSET GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OFF MOUNT. PROVIDE #3/0 INSULATED GROUND FROM BUILDING ELECTRIC SERVICE TO GROUND ELECTRODE SYSTEM DATA CLOSET GROUND BAR. GROUND TO BE ROUTED ABOVE ACCESSIBLE CEILINGS. SEE DETAIL 1 ON SHEET E0.7.

POWER SYSTEMS SYMBOLS:

	DUPLEX RECEPTACLE, TAMPER-RESISTANT, NEMA 5-20R, FLUSH MOUNTED 18" A.F.F. TO THE CENTER OF THE BOX.
	DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 26" A.F.F. TO THE CENTER OF THE BOX.
	DUPLEX RECEPTACLE, TAMPER-RESISTANT, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. TO THE CENTER OF THE BOX OR 4" ABOVE BACKSPLASH TO CENTERLINE. REFER TO ARCHITECTURAL DETAILS.
EWC	DUPLEX RECEPTACLE, TAMPER RESISTANT, FOR WATER COOLER. COORDINATE LOCATION AND HEIGHT WITH PLUMBING TRADE. RECEPTACLE WILL BE CONCEALED BEHIND WATER COOLER. BREAKER SERVING COOLER SHALL BE GROUND-FAULT TYPE.
REF	DUPLEX RECEPTACLE FOR COOLER/REFRIGERATOR, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. TO THE CENTER OF THE BOX BREAKER SERVING COOLER SHALL BE GROUND-FAULT TYPE.
ICE	DUPLEX RECEPTACLE FOR ICE MAKER, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. TO THE CENTER OF THE BOX BREAKER SERVING COOLER SHALL BE GROUND-FAULT TYPE.
	DOUBLE DUPLEX RECEPTACLE, QUAD, TAMPER-RESISTANT, TWO NEMA 5-20R, FLUSH MOUNTED 18" A.F.F. TO THE CENTER OF THE BOX IN ONE TWO GANG BOX.
A	DOUBLE DUPLEX RECEPTACLE, TAMPER RESISTANT, WITH DIVIDER, QUAD, TWO NEMA 5-20R, FLUSH MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE TO THE CENTER OF THE BOX IN ONE TWO GANG BOX.
WP	DUPLEX RECEPTACLE, TAMPER-RESISTANT WEATHERPROOF WITH "EXTRA-DUTY" HOOD AND GROUND FAULT INTERRUPTING CAPABILITIES. NEMA 5-20R, FLUSH MOUNTED 18" A.F.G. TO THE CENTER OF THE BOX.
GF	DUPLEX RECEPTACLE, ANY OF ABOVE EXCEPT GROUND-FAULT TYPE.
DH	DUPLEX RECEPTACLE, NEMA 5-20R, SURFACE MOUNTED AT DEHUMIDIFIER, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
S_M	MANUAL MOTOR STARTER, SINGLE POLE, 1 SPEED, WITH PILOT LIGHT MOUNTED 44" A.F.F. TO THE CENTER OF THE BOX.
J	JUNCTION BOX, MOUNTED ABOVE CEILING OR IN JOIST SPACE. SIZE AS NOTED OR REQUIRED.
J	JUNCTION BOX, WALL MOUNTED, MOUNTING HEIGHT AND SIZE AS NOTED OR REQUIRED.
J	JUNCTION BOX, FLEX CONN. TO EQUIPMENT. MOUNTING HEIGHT & SIZE AS NOTED OR REQUIRED.
	MOTOR STARTER OR VARIABLE FREQUENCY DRIVE, PROVIDED BY MECHANICAL CONTRACTOR.
TC	CIRCULATING PUMP AND TIME CLOCK FOR WATER HEATER BY PLUMBING CONTRACTOR. ELECTRICAL CONTRACTOR TO MAKE CONNECTIONS TO EQUIPMENT.
#	DISCONNECT SWITCH. SIZE AS INDICATED ON GENERAL EQUIPMENT SCHEDULE.
	MOTOR, SIZE AND CHARACTERISTICS AS NOTED.
	SERVICE ENTRANCE PANELBOARD.
	LIGHTING OR POWER BRANCH CIRCUIT PANELBOARD.
	ELECTRICAL CONNECTION TO MOTORIZED DAMPER, 120 VOLT. VERIFY LOCATION WITH MECHANICAL CONTRACTOR.
S_W	LOCKABLE DISCONNECT SWITCH, SINGLE POLE, 20A, 120 VOLT, MOUNTED 44" A.F.F. TO THE CENTER OF BOX EQUAL TO COOPER #AH6808GDAC.
J_D	ELECTRICAL CONNECTION (120V) TO WALL MOUNT HAND DRYER, CONNECT TO A GROUND-FAULT TYPE CIRCUIT BREAKER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
B	SINGLE GANG, JUNCTION BOX FOR SPRINKLER SYSTEM HORN / STROBE DEVICE ON EXTERIOR OF WALL WITH 120V CONNECTION. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
TV	DUPLEX RECEPTACLE FOR TV, TAMPER-RESISTANT, NEMA 5-20R, MOUNTED IN MEDIA BOX. COORDINATE LOCATION WITH ARCHITECT / OWNER. REFER TO DETAIL 6 ON SHEET E0.7.
	SINGLE RECEPTACLE, NEMA 6-30R, FLUSH MOUNTED 18" A.F.F. TO THE CENTER OF THE BOX.
IB	INTERACTIVE BOARD IN CLASSROOM. DUPLEX RECEPTACLE, TAMPER-RESISTANT, NEMA 5-20R, FLUSH MOUNTED BEHIND BOARD. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH-IN.
ST	STEP-DOWN TRANSFORMER, PROVIDE 1.5 KW TRANSFORMER, 277V INPUT WITH 120V OUTPUT
A	DISCONNECT SWITCH. CONNECTION FROM SWITCH TO HEATER SHALL BE CONCEALED. REFER TO DETAIL 7 ON SHEET E0.5.
J_P	JUNCTION BOX FOR 120V CONNECTION TO PLUMBING FIXTURES, LOW-VOLTAGE CONNECTING TO FIXTURE WILL BE BY PLUMBING CONTRACTOR. BOX MOUNTED ABOUT ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR.

AUXILIARY SYSTEM SYMBOLS:

	AUXILIARY SYSTEM BACKBOARD, WALL MOUNTED 3/4" PLYWOOD 4'x8' UNLESS NOTED OTHERWISE. PLYWOOD TO BE PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT BOTH SIDES & ALL EDGES. BACKBOARD SHALL ALSO BE USED FOR ACCESS CONTROLS.
2	DATA, SINGLE GANG OUTLET WITH CAT 6 CABLING, FLUSH MOUNTED AT 18" A.F.F. (UNLESS NOTED OTHERWISE) TO THE TOP OF THE BOX WITH 1" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATE WITH PLASTIC BUSHING. PROVIDE COVER PLATE AS REQUIRED. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 2 ON SHEET E0.8.
2	POINT OF SALES DATA, STUB UP TO SINGLE GANG OUTLET WITH CAT 6 CABLING, VERIFY HEIGHT WITH SERVING LINE EQUIPMENT. PROVIDE 1" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATE WITH PLASTIC BUSHING. PROVIDE COVER PLATE AS REQUIRED. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 2 ON SHEET E0.8.
IB 2	INTERACTIVE BOARD DATA, SINGLE GANG OUTLET WITH CAT 6 CABLING, FLUSH MOUNTED BEHIND BOARD WITH 1" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATE WITH PLASTIC BUSHING. PROVIDE COVER PLATE AS REQUIRED. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 2 ON SHEET E0.8.
2	INTERCOM HANDSET, SINGLE GANG OUTLET WITH CAT 6 CABLING, FLUSH MOUNTED AT 48" A.F.F. TO THE TOP OF THE BOX WITH 1" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATE WITH PLASTIC BUSHING. PROVIDE COVER PLATE AS REQUIRED. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 2 ON SHEET E0.8.
WA 2	WIRE ACCESS POINT, CAT 6A CABLING TERMINATED ABOVE ACCESSIBLE CEILING SPACE WITH 10' SLACK. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 5 ON SHEET E0.8.
WA 2	WIRE ACCESS POINT WITH CAT 6A CABLING, WALL MOUNTED 10'-0"A.F.F. WITH 1" CONDUIT STUBBED INTO ABOVE ACCESSIBLE CEILING SPACE AND TERMINATED WITH PLASTIC BUSHING. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS. REFER TO DETAIL 5 ON SHEET E0.8.
A	PROVIDE ONE (1) 2" CONDUIT SLEEVE IN ACCESSIBLE CEILING SPACE AND STUB UP AND TERMINATE AT CABLE TRAY. PROVIDE APPROPRIATE FIRE RATED ASSEMBLY. TERMINATE WITH BUSHING ON BOTH ENDS.
A	PROVIDE ONE (1) 2" CONDUIT SLEEVE IN ACCESSIBLE CEILING SPACE OF CORRIDOR AND STUB UP AND TERMINATE AT CABLE TRAY. PROVIDE APPROPRIATE FIRE RATED ASSEMBLY. TERMINATE WITH BUSHING ON BOTH ENDS.
B	PROVIDE FOUR (4) 4" CONDUIT SLEEVES IN ACCESSIBLE CEILING SPACE. PROVIDE APPROPRIATE FIRE RATED ASSEMBLY. TERMINATE WITH BUSHING ON BOTH ENDS.
JB2 J C	PROVIDE JUNCTION BOX (JB2) SURFACE MOUNTED ON WALL, SIZE AS REQUIRED, WITH THREE (2) 4" CONDUIT CONDUITS STUBBED IN TO ACCESSIBLE CEILING SPACE OF CORRIDOR. PROVIDE APPROPRIATE FIRE RATED ASSEMBLY. TERMINATE WITH BUSHING ON BOTH ENDS.
JB1 J D	PROVIDE JUNCTION BOX (JB1) SURFACE MOUNTED ON WALL, SIZE AS REQUIRED, WITH THREE (3) 4" CONDUIT CONDUITS STUBBED IN TO ACCESSIBLE CEILING SPACE OF CORRIDOR. PROVIDE APPROPRIATE FIRE RATED ASSEMBLY. TERMINATE WITH BUSHING ON BOTH ENDS.
TV	TV OUTLET, SINGLE GANG OUTLET WITH CABLE AS REQUIRED, MOUNTED IN MEDIA BOX. PROVIDE COVER PLATE AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT / OWNER. REFER TO DETAIL 6 ON SHEET E0.7.
SP 1	INTERCOM SPEAKER JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING SPACE WITH CABLE. LEAVE 10' OF CABLE SLACK. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA DROPS.
J GC	SINGLE GANG JUNCTION BOX FOR BASKETBALL GOAL CONTROLS WITH 3/4" WIRING AS REQUIRED DOWN TO KEY SWITCH LOCATED IN OFFICE. VERIFY EXACT LOCATION AND REQUIREMENTS WITH BASKETBALL GOAL SUPPLIER PRIOR TO ROUGH-IN.
S^K	KEY CONTROL SWITCH, TOTAL OF 6, ONE FOR EACH BASKETBALL GOAL. MOUNTED IN 6-GANG JUNCTION BOX MOUNTED 48"A.F.F. TO TOP OF BOX. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

SECURITY/ACCESS CONTROL SYMBOLS:

J 1 CR	SECURITY CARD READER, FLUSH MOUNTED AT 48"A.F.F., ON INSECURE SIDE OF DOOR, WITH 3/4" C. STUBBED UP TO DOOR ACCESS CONTROL JUNCTION BOX. COORDINATE EXACT REQUIREMENTS. REFER TO DETAIL 5 ON SHEET E0.7.
J PB	JUNCTION BOX FOR PUSH BUTTON DOOR RELEASE, FLUSH MOUNTED. VERIFY LOCATION AND HEIGHT WITH OWNER, WITH 3/4" C. STUBBED UP TO DOOR ACCESS CONTROL JUNCTION BOX. COORDINATE EXACT REQUIREMENTS. REFER TO DETAIL 5 ON SHEET E0.7.
J PTX	JUNCTION BOX FOR PUSH TO EXIT BUTTON, FLUSH MOUNTED AT 48"A.F.F., ON EGRESS SIDE OF DOOR, WITH 3/4" C. STUBBED UP TO DOOR ACCESS CONTROL JUNCTION BOX. COORDINATE EXACT REQUIREMENTS. REFER TO DETAIL 5 ON SHEET E0.7.
J DA	JUNCTION BOX FOR DOOR ACCESS CONTROLS, MOUNTED ABOVE ACCESSIBLE CEILING SPACE WITH 3/4"E.C., TERMINATE WITH BUSHING. COORDINATE EXACT REQUIREMENTS. REFER TO DETAIL 5 ON SHEET E0.7.
A	REFER TO ACCESS SYSTEM DOOR CONDUIT DETAIL 5 ON SHEET E0.7.
M	MOTION SENSOR DEVICE, CEILING MOUNTED OR AS REQUIRED WITH 3/4" CONDUIT TO DOOR ACCESS CONTROL JUNCTION BOX. VERIFY EXACT LOCATION WITH OWNER SECURITY PERSONAL PRIOR TO ROUGH-IN. REFER TO DETAIL 5 ON SHEET E0.7.
IC	JUNCTION BOX FOR INTERCOM MASTER CONTROL STATION, FLUSH MOUNTED AT 18"A.F.F. WITH 3/4"C. STUBBED UP INTO ACCESSIBLE CEILING SPACE, WITH CABLE AS REQUIRED. TERMINATE WITH BUSHING. COORDINATE EXACT REQUIREMENTS. EQUAL TO TALKAPHONE.
J IC	JUNCTION BOX CALL-IN STATION WITH CAMERA, FLUSH MOUNTED AT 48"A.F.F. TO TOP OF BOX, WITH 3/4"C. STUBBED UP INTO ACCESSIBLE CEILING SPACE, WITH CABLE AS REQUIRED. TERMINATE WITH BUSHING. COORDINATE EXACT REQUIREMENTS. EQUAL TO TALKAPHONE.
1 EC	EXTERIOR CAMERA, SINGLE GANG OUTLET, MOUNTED AS REQUIRED WITH 1" CONDUIT STUB INTO ABOVE ACCESSIBLE CEILING SPACE. TERMINATE WITH PLASTIC BUSHING. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA CABLES REQUIRED. REFER TO SHEET E0.8. CAMERAS FURNISHED AND INSTALLED BY OWNER.
1 IC	INTERIOR CAMERA, SINGLE GANG OUTLET, SURFACE MOUNTED AT HEIGHT AS REQUIRED WITH 1" CONDUIT STUB INTO ABOVE ACCESSIBLE CEILING SPACE. TERMINATE WITH PLASTIC BUSHING. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA CABLES REQUIRED. REFER TO SHEET E0.8. CAMERAS FURNISHED AND INSTALLED BY OWNER.
C 1	INTERIOR CAMERA, SURFACE MOUNTED ON CEILING. NUMBER BESIDE SYMBOL INDICATES NUMBER OF DATA CABLES REQUIRED. LEAVE 10' OF SLACK AT CAMERA LOCATION. REFER TO SHEET E0.8. CAMERAS FURNISHED AND INSTALLED BY OWNER.

FIRE ALARM SYSTEM SYMBOLS:

FAC	FIRE ALARM SYSTEM CONTROL PANEL.
RAP	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL.
F	FIRE ALARM SYSTEM MANUAL PULL STATION FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. SEE INSTALLATION DETAIL.
F G	FIRE ALARM SYSTEM MANUAL PULL STATION WITH CLEAR GUARD, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. SEE INSTALLATION DETAIL.
F	FIRE ALARM SYSTEM HORN/STROBE. MOUNT AT 80" A.F.F. MUST MEET 'ADA' REQUIREMENTS.
L	FIRE ALARM SYSTEM DUAL CLEAR/AMBER STROBE ONLY UNIT, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.
S	FIRE ALARM SYSTEM SPEAKER/STROBE, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.
WG S	FIRE ALARM SYSTEM SPEAKER/STROBE WITH WIRE GUARD, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS
WP S	FIRE ALARM SYSTEM SPEAKER/STROBE, WEATHERPROOF, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.
	FIRE ALARM SYSTEM HEAT DETECTOR, CEILING MOUNTED, 135° F.
	FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR(QTY. 2 ONE IN SUPPLY SIDE AND ONE IN RETURN SIDE) WITH RELAYS AS REQUIRED FOR MECHANICAL UNIT SHUTDOWN.
H	FIRE ALARM SYSTEM SMOKE DETECTOR UNIT, CEILING MOUNTED, 190°F.
	FIRE ALARM SYSTEM, MAGNETIC DOOR HOLD OPEN DEVICE, WALL MOUNT, REFER TO SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS.
T_S	FIRE ALARM SYSTEM CONNECTION TO TAMPER SWITCH, VERIFY REQUIREMENTS WITH SPRINKLER CONTRACTOR.
F_S	FIRE ALARM SYSTEM CONNECTION TO FLOW SWITCH, VERIFY REQUIREMENTS WITH SPRINKLER CONTRACTOR.
B	SPRINKLER SYSTEM HORN / STROBE DEVICE ON EXTERIOR OF WALL. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
TDS	FIRE PUMP, SPRINKLER SYSTEM TEST AND DRAIN SWITCH. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
PIVS	FIRE PUMP, SPRINKLER SYSTEM POST INDICATOR VALVE SWITCH. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
BVS	FIRE PUMP, SPRINKLER SYSTEM BUTTERFLY VALVE SWITCH. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
OSY	FIRE PUMP, SPRINKLER SYSTEM PUMP OSY VALVE. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
BVS	FIRE PUMP, SPRINKLER SYSTEM OSY BACKFLOW VALVE SWITCH. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
JVSS	JOCKEY PUMP VALVE SUPERVISORY SWITCH. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
FPC	FIRE PUMP CONTROLLER. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.

GENERAL ELECTRICAL NOTES:

1. SERVICE TO NEW BUILDING IS 277/480 VOLT, 3 PHASE, 4 WIRE, WYE FROM PADMOUNTED TRANSFORMER.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES.
3. CONTRACTOR SHALL PROVIDE ALL MATERIAL NECESSARY TO FINALIZE A NEAT, COMPLETE, AND PROPERLY WORKING ELECTRICAL SYSTEM WHICH CONFORMS TO ALL CODES AND TO THE REQUIREMENTS OF ANY OTHER ORGANIZATION OR AGENCY HAVING JURISDICTION OVER THIS PROJECT.
4. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
5. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
6. 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.
7. CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN. SUPPORT OF ALL LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. FIXTURES SHALL BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
8. PROVIDE PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
9. CHECK THE CORRESPONDING MECHANICAL SHEETS AND INSTALL PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL SYSTEMS SHOWN THEREON, REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL DRAWINGS.
10. ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED/SHOWN EXPOSED.
11. WHERE CONDUIT IS EXPOSED, IT SHALL BE ROUTED NEXT TO THE WALL OR CEILING AND MAKE 90 DEGREE TURNS ONLY.
12. PROVIDED FUSES IN FUSIBLE DISCONNECTS PER EQUIPMENT MANUFACTURE'S REQUIREMENTS.
13. A GREEN EQUIPMENT GROUNDING CONDUCTOR (SIZED PER N.E.C.) SHALL BE INSTALLED IN EACH AND EVERY CONDUIT. INCLUDING BUT NOT LIMITED TO; BRANCH CIRCUITS, SWITCH LEGS, FEEDERS. ETC.
14. ALL WIRING DEVICES SHALL BE MOUNTED AS INDICATED IN THE SPECIFICATIONS UNLESS NOTED OTHERWISE ON DRAWINGS. ALL LIGHTING FIXTURES SHALL BE MOUNTED AS NOTED IN THE FIXTURE SCHEDULE UNLESS NOTED OTHERWISE.
15. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR ALL BATHROOM AND OUTSIDE RECEPTACLES PER N.E.C. ALL RECEPTACLES IN THE KITCHEN SHALL BE "GF" TYPE AS PER N.E.C.
16. SMOKE DETECTORS ARE TO BE INTERLOCKED SO THAT ACTIVATION OF ONE DEVICE IN UNIT CAUSES ALL DEVICES IN SAME UNIT TO SOUND ALARM.
17. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF TELEPHONE AND CABLE T.V. OUTLETS WITH OWNER PRIOR TO INSTALLATION.
18. ALL WIRING ROUTED IN RETURN AIR PLENUM UNDER MECH UNIT MUST BE ROUTED IN METAL CONDUIT, OR MC CABLE.
19. ALL DISCONNECT SWITCHES MUST BE INSTALLED AS REQUIRED TO MAINTAIN PROPER WORKING CLEARANCES AS PER N.E.C.
20. WHERE ACTUAL LOADS OF INSTALLED EQUIPMENT VARY FROM THOSE LISTED ABOVE (OR WHERE LOADS ARE ADDED) THE CONTRACTOR SHALL VERIFY AND ADJUST ACCORDINGLY ALL SERVICE ENTRANCE PANELS, CONDUCTORS, EQUIP., ETC. IN COMPLIANCE WITH ARTICLES 210, 215, 220 & 230 OF THE N.E.C.
21. ALL FIRE ALARM DEVICES WHERE REQUIRED SHALL MEET 'ADA' GUIDE LINES AND SHALL BE SUITABLE FOR EXTERIOR USE. FIRE ALARM TO COMPLY WITH NFPA 72. SHOP DRAWINGS TO BE SUBMITTED TO FIRE DEPARTMENTS NEW CONSTRUCTION DIVISION FOR REVIEW AND APPROVAL.
22. ALL LOW VOLTAGE, AUXILIARY EQUIPMENT AND/OR STRUCTURED CABLING SYSTEMS WILL MEET ASSOCIATED N.E.C. ARTICLES INSTALLATION REQUIREMENTS.
23. ELECTRICAL CONTRACTOR TO VERIFY SERVICE REQUIREMENTS FOR TELEPHONE AND CABLE TV SERVICE WITH /LOCAL SERVICE PROVIDERS.

GENERAL COORDINATION NOTES:

1. THE CONTRACT DOCUMENTS ARE GENERALLY DIAGRAMMATIC IN NATURE WITH RESPECT TO MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND SECURITY/VOICE DATA SYSTEMS. NOT EVERY BEND, OFFSET AND DIRECTION CHANGE IS SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS REPRESENT THAT THESE SYSTEMS WILL FIT IN THE SPACES ALLOTTED; HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSIGN SPACE PRIORITIES AND LAY OUT AND ROUTE THE SYSTEMS SO THEY WILL FIT EFFICIENTLY IN THE ALLOTTED SPACES AND ALLOW FOR CONVENIENT AND CODE-CONFORMING ACCESS TO ALL VALVES, DAMPERS AND OTHER DEVICES.
2. THE LAYOUT OF UTILITY ROOMS IS ALSO DIAGRAMMATIC IN NATURE. THE CONTRACT DOCUMENTS REPRESENT THAT EQUIPMENT IDENTIFIED TO BE INSTALLED IN UTILITY ROOMS WILL FIT IN THE SPACES ALLOTTED. HOWEVER, BECAUSE THE CONTRACTOR MUST SUBMIT AND PROVIDE FOR EQUIPMENT TO BE INSTALLED IN UTILITY ROOMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LAY-OUT THE EQUIPMENT ROOM SUCH THAT ALL EQUIPMENT WILL FIT.
3. THE CONTRACTOR MUST EXAMINE ALL OF THE CONTRACT DRAWINGS, ESPECIALLY ARCHITECTURAL FOR CEILING SPACE DIMENSIONS, AND STRUCTURAL FOR BEAM/COLUMN OBSTRUCTIONS, AND MAKE ALLOWANCES IN THE CONTRACTOR'S PLANNED COORDINATION EFFORTS, WORK SEQUENCE, AND ROUTING OF THE SYSTEMS.
4. ROUTING SHOWN FOR PIPES, DUCTS, AND CONDUITS ON DRAWINGS ARE SHOWN BY GRAPHIC SYMBOLS ONLY; MAKE RUNS PARALLEL WITH LINES OF BUILDING.
5. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS.
6. CONCEAL PIPES, DUCTS, AND WIRING IN FINISHED AREAS, UNLESS OTHERWISE INDICATED; COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.
7. SIZE DUCTWORK, MECHANICAL PIPE, PLUMBING, ELECTRICAL, AND SPRINKLER SYSTEM COMPONENTS AS SHOWN IN THE CONTRACT DOCUMENTS AND DRAWINGS. DOWNSIZING OF MECHANICAL/ELECTRICAL (M/E) SYSTEMS IS NOT PERMITTED.

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ELECTRICAL SYMBOL LEGEND AND NOTES

ALABAMA LICENSED No. 33579 PROFESSIONAL ENGINEER D. MORGAN GARNER 1/14/26

PROJ. MGR.: RH
DRAWN: RH
DATE: 01-14-2026
REVISIONS

JOB NO. 24-304
SHEET NO: E0.1

- Tuesday, January 13, 2026 10:01:05 AM

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

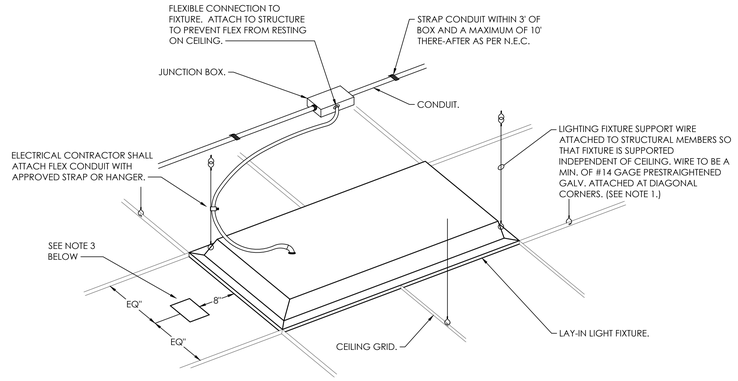
1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
4. ALL LUMINAIRES DRIVERS SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
7. ADJUSTABLE AIMING LUMINAIRES SHALL BE ADJUSTED FOR FINAL APPROVAL AT NIGHT, OWNER, ARCHITECT, AND ENGINEER RESERVES THE RIGHT TO HAVE THE CONTRACTOR ADJUST LIGHTING TO THEIR SATISFACTION.
8. ALL SURFACE OR SUSPENDED LUMINAIRES SHALL HAVE JOINING PLATES, END CAPS, CANOPIES, ETC.
9. ALL INTERIOR LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LEDS. ALL EXTERIOR LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LEDS.
10. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
11. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
13. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
14. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LUMINAIRES AND EXIT SIGNS.
16. APPROVED EQUAL LIGHTING MANUFACTURERS ARE HUBBELL AND PHILLIPS LIGHTING.

LIGHTING CONTROL NOTES:

1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN ADJACENT UTILITY TYPE ROOM WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "LC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.
2. PROVIDE COMPLETE LIGHTING CONTROLS TO COMPLY WITH ASHRAE 90.1-2013 AS HEREIN NOTED AND AS SHOWN ON DRAWINGS.
3. ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
4. ALL LIGHTING CONTROLS SHALL BE "MANUAL ON" EXCEPT FOR CORRIDORS AND EXTERIOR AT DOORWAYS.
5. FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (120V). REFER TO TYPICAL ROOM LIGHTING CONTROL WIRING DIAGRAM.
6. SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL - AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS, 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION, 3) FINAL CHECK- AFTER FINAL INSPECTION IS COMPLETED. OWNER TRAINING.
7. MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH OWNER.
8. PROVIDE WIRELESS CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS.
9. INTERIOR LIGHTING CONTROLLED BY A TIMED SENSOR SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
10. **CONTROL CABLING SHALL BE PURPLE IN COLOR.**

LIGHTING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER & CATALOG #	LAMP	WATTS	MOUNTING	VOLTS	REMARKS
A	ELITE LIGHTING #24-FPL-BL-LED-6000L/7000L/8000L-DIM10-MVOLT-35K-85	LED W/UNIT 35K	54	RECESSED CEILING	277	LED FLAT PANEL, 6000L/7000L/8000L LUMENS, 0-10V DIMMING.
AE	ELITE LIGHTING #24-FPL-BL-LED-6000L/7000L/8000L-DIM10-MVOLT-35K-85-0-EMG-LED-20W	LED W/UNIT 35K	54	RECESSED CEILING	277	LED FLAT PANEL, 6000L/7000L/8000L LUMENS, 0-10V DIMMING WITH EMERGENCY BATTERY PACK.
B	DAYOLITE #TSLL-D-FA-35-SO-3-S-W-DIM10	LED W/UNIT 35K	20	UNDER COUNTER	24V	UNDERCOUNTER LIGHT WITH LENS
C	WILLIAMS #6DR-TL-L15/835-DIM-UNV-OM-OF-CS-MWT-N	LED W/UNIT 35K	14	RECESSED CEILING	277	6" ROUND LED DOWNLIGHT WITH CLEAR SEMI SPECULAR REFLECTOR, WHITE TRIM, 1500 LUMENS.
CE	WILLIAMS #6DR-TL-L15/835-EM/10W/RTS-DIM-UNV-OM-OF-CS-MWT-N	LED W/UNIT 35K	14	RECESSED CEILING	277	6" ROUND LED DOWNLIGHT WITH CLEAR SEMI SPECULAR REFLECTOR, WHITE TRIM, 1500 LUMENS AND EMERGENCY BATTERY PACK.
D	CAMMAN LIGHTING #C4200-24-35K-CLV-2-WA-CBA	LED W/UNIT 35K	30	SURFACE CEILING	277	24" ROUND X 8" DEEP LED BOWL, 2200 LUMENS WITH GLOSS WHITE ACRYLIC DIFFUSER, TRIM COLOR BY ARCHITECT.
E	HUBBELL #LCL4-35ML-E-U	LED W/UNIT 35K	48	SURFACE CEILING	277	4' LED WITH LENS.
EE	HUBBELL #LCL4-35ML-E-U-ELL14	LED W/UNIT 35K	48	SURFACE CEILING	277	4' LED WITH LENS AND EMERGENCY BATTERY PACK.
EMG	LIGHALARMS #LCAB-2SQLED	LED W/UNIT	10	SURFACE WALL	277	TWO HEAD EMERGENCY LIGHT WITH EMERGENCY BATTERY PACK AND WIRE GUARD.
F	COLUMBIA #PEL2-40MH-FAW-U1-EDU	LED W/UNIT 35K	158	PENDANT AIRCRAFT CABLE	277	LED HIGH PERFORMANCE HIGH BAY, 0-10V DIMMING.
G	3G LIGHTING #3G-4RLI-D750-S80-35K-UNV-DIM-WT-FL	LED W/UNIT 35K	30	RECESSED CEILING	277	3.5" WIDE X 4' LONG LED.
GE	3G LIGHTING #3G-4RLI-D750-S80-35K-UNV-DIM-WT-FL-EMB	LED W/UNIT 35K	30	RECESSED CEILING	277	3.5" WIDE X 4' LONG LED WITH EMERGENCY BATTERY PACK.
H	DAY-BRITE #2SBP-2035L-8CS-2-UNV-DIM	LED W/UNIT 35K	27	RECESSED CEILING	277	LED FLAT PANEL, SELECTABLE LUMENS, 0-10V DIMMING.
HE	DAY-BRITE #2SBP-2035L-8CS-2-UNV-DIM-BSL310RM	LED W/UNIT 35K	27	RECESSED CEILING	277	LED FLAT PANEL, SELECTABLE LUMENS, 0-10V DIMMING WITH EMERGENCY BATTERY PACK.
K	CAMMAN LIGHTING #P1044-36-LD-35K-CLV-2-CBA	LED W/UNIT 35K	120	PENDANT	277	36" ROUND X 4" x 4" OPEN CENTER LED, COLOR BY ARCHITECT.
L	CAMMAN LIGHTING #C1003-36-LN-35K-CLV-2-CBA	LED W/UNIT 35K	146	PENDANT	277	36" ROUND X 5" WITH LENES, COLOR BY ARCHITECT.
M	PRIMUS #LN3-FL-H-4K-UNV-SM-SEB-CBA-2'	LED W/UNIT 40K	18	VERTICAL ON COLUM	277	2' L x 3" W x 2" D LED LIGHT WITH METAL SIDES MOUNTED VERTICAL ON COLUMN. VERIFY MOUNTING HEIGHT AND COLOR WITH ARCHITECT.
N	CAMMAN LIGHTING #P4200-24-35K-CLV-MV-WA-CBA	LED W/UNIT 35K	45	PENDANT	277	24" ROUND X 8" DEEP LED BOWL, 4700 LUMENS WITH GLOSS WHITE ACRYLIC DIFFUSER, TRIM COLOR BY ARCHITECT.
PA	GARDCO #OPF-L-A16-840-T4W-MAR-UNV-BZ VALMONT #DS330-500W300-P9-FP-DB-FBC-AB-30'	LED W/UNIT 40K	195	POLE	277	SINGLE LED FIXTURE ON 30' ROUND STEEL POLE. POLE SHALL HAVE VIBRATION DAMPER AND BRONZE FINISH. CONTRACTOR TO USE SUPPLIED TEMPLATE FOR SETTING ANCHOR BOLTS. VERIFY EXACT POLE CONFIGURATION PRIOR TO ORDERING.
PB	MATCH EXISTING	LED W/UNIT 40K	100	POST TOP	277	SEE REFERENCE PHOTO ON SHEET E1.2.
WP	HUBBELL #SG1-40-4K7-FT-UNV-DB	LED W/UNIT 40K	38	SURFACE WALL	277	LED WALLPACK, DARK BRONZE FINISH.
WPE	HUBBELL #SG1-40-4K7-FT-UNV-DB-E	LED W/UNIT 40K	38	SURFACE WALL	277	LED WALLPACK, DARK BRONZE FINISH WITH EMERGENCY BATTERY PACK.
X	LIGHTALARMS #GRAN-AC-R-W	LED W/UNIT	10	FLUSH CEILING	277	LED EXIT SIGN, WHITE WITH RED LETTERS, EMERGENCY WALL MOUNTED WHERE INDICATED.
X1	LIGHTALARMS #GRAN-AC-R-W	LED W/UNIT	10	WALL	277	LED EXIT SIGN, WHITE WITH RED LETTERS, EMERGENCY WALL MOUNTED
XG	LIGHTALARMS #GRAN-AC-R-W	LED W/UNIT	10	WALL	277	LED EXIT SIGN, WHITE WITH RED LETTERS, EMERGENCY WALL MOUNTED WITH WIRE GUARD.



1 E0.2 LAY-IN FIXTURE SUPPORT DETAIL

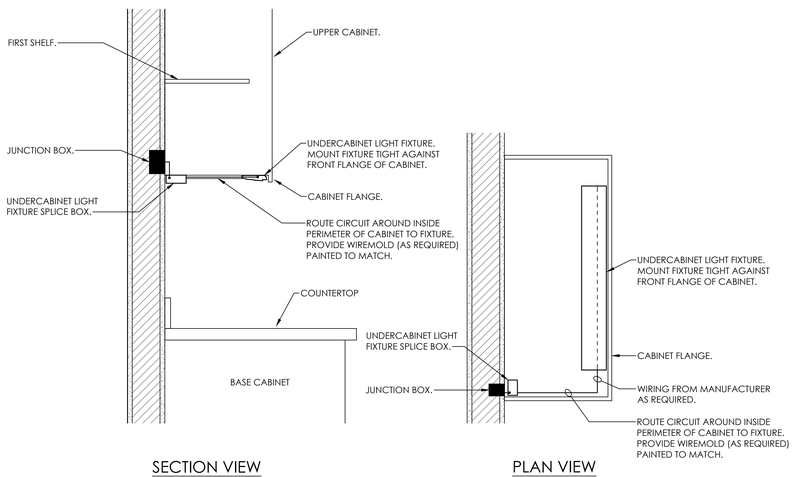
NOT TO SCALE

NOTES:

1. INDEPENDENT SUPPORT WIRES MUST BE MARKED (PAINTED) SO THAT THEY CAN BE DISTINGUISHABLE AS NON CEILING SUPPORT WIRES PER N.E.C.
2. INDEPENDENT SUPPORT WIRES SHALL NOT HAVE AN ANGLE OF MORE THAN 45° FROM THE CEILING GRID.
3. THIS ONLY APPLIES FOR REMOTE TEST SWITCH. FLUSH MOUNTED IN CEILING TILE.

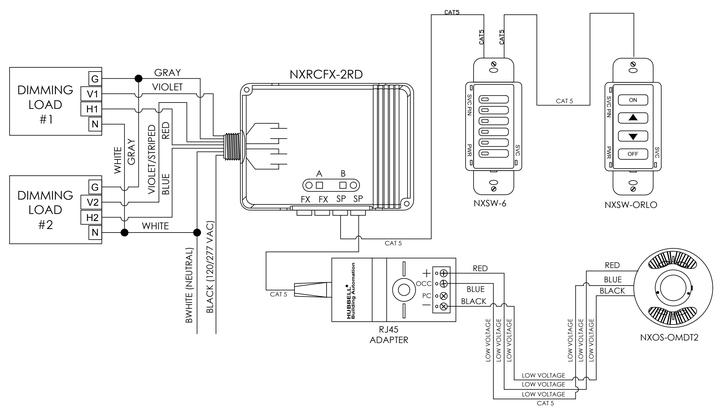
OCCUPANCY SENSOR AND CONTROL NOTES:

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 30 MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY / RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM IS SUBMITTED FOR APPROVAL AND IS APPROVED.
8. WATT STOPPER AND IN-LIGHT ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER LIGHTING CONTROL DEVICE WITH #12 GROUND.
10. PROVIDE A UL924 DEVICE FOR THE LIGHTING CONTROLS SUCH THAT UPON POWER LOSS THE LOCAL CONTROLS IS BYPASSED TO ALLOW THE EMERGENCY LIGHTS TO ILLUMINATE 100%. ALL EMERGENCY LIGHTS.



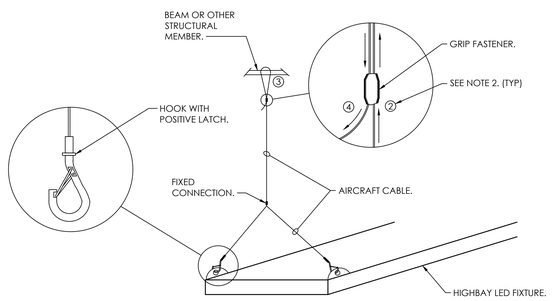
2 E0.2 UNDERCOUNTER FIXTURE MOUNTING DETAIL (TYPICAL)

NOT TO SCALE



3 E0.2 TYPICAL LIGHTING ROOM CONTROLLER DETAIL

NOT TO SCALE



4 E0.2 HIGHBAY LED FIXTURE (F) SUPPORT DETAIL

NOT TO SCALE

NOTES:

1. ALL CABLES ARE TO BE STRAINED GALVANIZED STEEL WITH A MIN. DIA. OF 0.080".
2. PASS FREE END THROUGH GRIP FASTENER.
3. FEED FREE END AROUND UNISTRUCT.
4. RETURN FREE END THROUGH GRIP FASTENER AND ADJUST TO SPECIFIED LENGTH.
5. ELECTRICAL CONTRACTOR MUST SUBMIT A DETAIL OF LIGHTING FIXTURE SUPPORT METHOD AND A LIST OF MATERIALS TO BE USED AS PER MANUFACTURE'S RECOMMENDATIONS.
6. TYPICAL SUPPORT METHOD TO BE USED ON BOTH ENDS OF THE FIXTURE.
7. TYPICAL DETAIL FOR FIXTURE TYPES 'F'.

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: LIGHTING FIXTURE SCHEDULE, NOTES AND DETAILS

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 35579 1/14/26 MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

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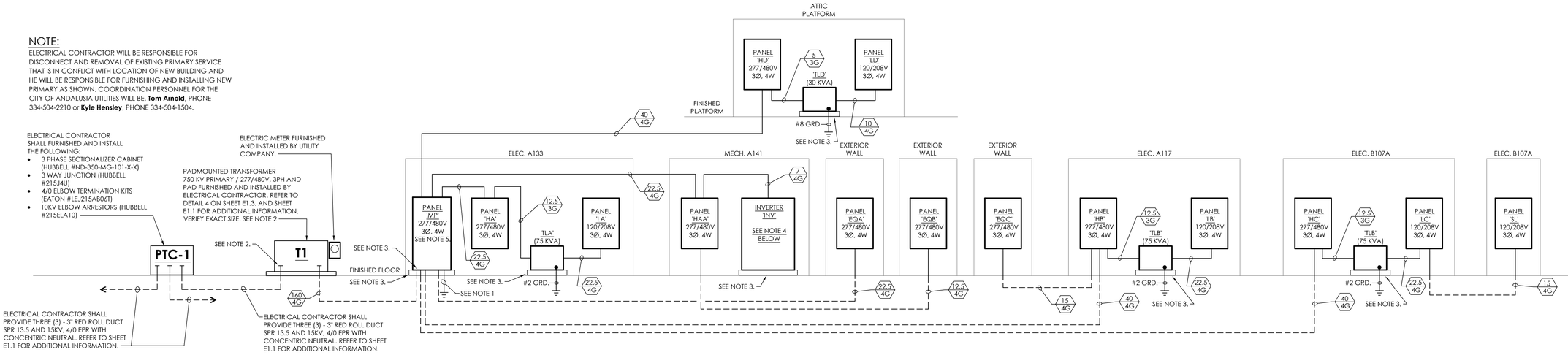
- Tuesday, January 13, 2026 10:01:32 AM

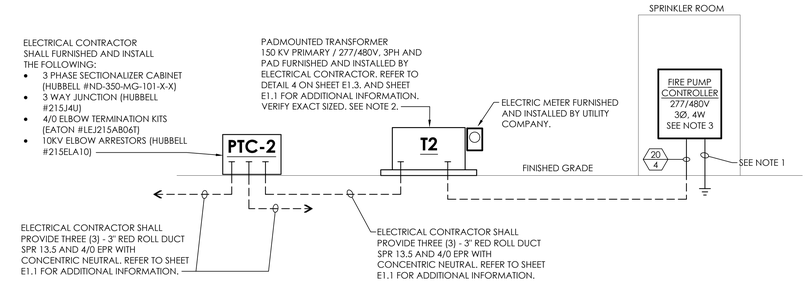


1 E0.3 POWER RISER DIAGRAM - CLASSROOM BUILDING

NOT TO SCALE

NOTES:

1. 1 #3/0 BARE COPPER EACH GROUND IN 1" CONDUIT. ONE (1) TO COLD WATER PIPE, ONE (1) DRIVEN, ONE (1) TO BUILDING STEEL AND ONE (1) TO REBAR AS PER N.E.C. SEE SERVICE ENTRANCE GROUNDING DETAIL 4 THIS SHEET.
2. TERMINATION OF SERVICE CONDUCTORS AT PAD MOUNTED TRANSFORMER AND AT SERVICE EQUIPMENT (WHERE POSSIBLE) SHALL BE TWO HOLE, LONG BARREL COMPRESSION LUGS (TWO COMPRESSIONS MINIMUM) ILSCO, BURNDY OR EQUAL. CONNECTIONS SHALL BE MADE WITH FULL SIZE TINNED OR CADMIUM PLATED SILICONE BRONZE BOLTS AND HARDWARE.
3. PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD ABOVE FINISH FLOOR/GRADE UNDER EQUIPMENT. CONCRETE PAD SHALL BE AT LEAST 4" WIDER AND LONGER THAN EQUIPMENT.
4. INVERTER 'INV' SHALL BE A EVENLITE #LMOPT-33000-3P-LC-IG-OG-C18-BB. **(150 MINUTES RUN TIME)** WITH UL924 COMPLIANT SELF-TEST / SELF DIAGNOSTICS AND A DEDICATED ALARM SILENCE ON/OFF PUSH BUTTON ALLOWS THE USER TO SILENCE THE AUDIBLE ALARM. UNIT IS RATED AT 33 KW/KVA. INPUT VOLTAGE: 277/480V, 3PH, 4W WITH GROUND. OUTPUT VOLTAGE: 277/480V, 3PH, 4W WITH GROUND. UNIT COMES WITH VRLA MAINTENANCE FREE LEAD CALCIUM BATTERY'S. STANDARD FEATURES: INPUT CIRCUIT BREAKER. BREAKERS REQUIRED - SEVEN (7) 20/1P CIRCUIT BREAKERS AND FOUR (4) 20/3P CIRCUIT BREAKERS.
5. AT PANEL 'MP' ADD PLAQUE TO READ AS FOLLOWS: "BUILDING SERVICE No. 1 PANEL 'MP' (ELECTRICAL ROOM OF STORM SHELTER). BUILDING SERVICES No. 2 FIRE PUMP CONTROLLER IS LOCATED IN SPRINKLER ROOM ADJACENT TO GYM.

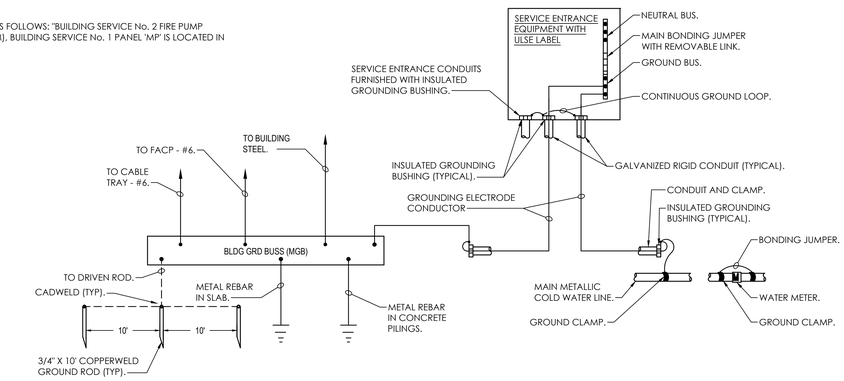


2 E0.3 POWER RISER DIAGRAM - FIRE PUMP SERVICE

NOT TO SCALE

NOTES:

1. 1#4 BARE COPPER EACH GROUND IN 1" CONDUIT. ONE (1) TO COLD WATER PIPE, ONE (1) DRIVEN, ONE (1) TO BUILDING STEEL AND ONE (1) TO REBAR AS PER N.E.C. SEE SERVICE ENTRANCE GROUNDING DETAIL 4 THIS SHEET.
2. TERMINATION OF SERVICE CONDUCTORS AT PAD MOUNTED TRANSFORMER AND AT SERVICE EQUIPMENT (WHERE POSSIBLE) SHALL BE TWO HOLE, LONG BARREL COMPRESSION LUGS (TWO COMPRESSIONS MINIMUM) ILSCO, BURNDY OR EQUAL. CONNECTIONS SHALL BE MADE WITH FULL SIZE TINNED OR CADMIUM PLATED SILICONE BRONZE BOLTS AND HARDWARE.
3. AT FIRE PUMP CONTROLLER ADD PLAQUE TO READ AS FOLLOWS: "BUILDING SERVICE No. 2 FIRE PUMP CONTROLLER. (SPRINKLER ROOM ADJACENT TO GYM), BUILDING SERVICE No. 1 PANEL 'MP' IS LOCATED IN ELECTRICAL ROOM OF STORM SHELTER".



4 E0.3 SERVICE ENTRANCE GROUNDING INSTALLATION

NOT TO SCALE:

NOTES:

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH THE NEC ARTICLE 250.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED IN FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN THE INTEGRITY OF THE GROUNDING SYSTEM.

3 E0.3 POWER RISER DIAGRAM - EXISTING SCHOOL SERVICE

NOT TO SCALE

DISCONNECT SWITCH SCHEDULE

NUMBER	SIZE	POLE	FUSE	NEMA	REMARKS
1	30	2	NO	1	
2	60	2	NO	1	
3	30	3	NO	1	
4	60	3	NO	1	
5	100	3	NO	1	
6	30	2	YES	3R	FUSE PER EQUIP. MANUFACTURER'S
7	60	2	YES	3R	FUSE PER EQUIP. MANUFACTURER'S
8	30	3	YES	3R	FUSE PER EQUIP. MANUFACTURER'S
9	60	3	YES	3R	FUSE PER EQUIP. MANUFACTURER'S
10	100	3	YES	3R	FUSE PER EQUIP. MANUFACTURER'S
11	100	3	YES	4X	FUSE PER EQUIP. MANUFACTURER'S

NOTE:
THIS SCHEDULE IS STANDARD AND MAY INCLUDE ITEMS NOT REQUIRED FOR THIS PROJECT.

FEEDER SCHEDULE

SYMBOL	COPPER
2 2G	2#12 & 1#12(G) - 1/2"c.
2 3G	3#12 & 1#12(G) - 1/2"c.
3 2G	2#10 & 1#10(G) - 1/2"c.
3 3G	3#10 & 1#10(G) - 1/2"c.
5 2G	2#8 & 1#10(G) - 3/4"c.
5 3G	3#8 & 1#10(G) - 3/4"c.
6 3G	3#6 & 1#8(G) - 1"c.
6 4G	4#6 & 1#8(G) - 1 1/4"c.
7 4G	4#4 & 1#8(G) - 1 1/4"c.
10 3G	3#3 & 1#8(G) - 1 1/4"c.
10 4G	4#3 & 1#8(G) - 1 1/4"c.
12.5 3	3#1 - 1 1/2"c.
12.5 3G	3#1 & 1#6(G) - 1 1/2"c.
12.5 4G	4#1 & 1#6(G) - 1 1/2"c.
15 4G	4#1/0 & 1#6(G) - 2"c.
17.5 3G	3#2/0 & 1#6(G) - 2"c.
17.5 4G	4#2/0 & 1#6(G) - 2"c.
20 4	4#3/0 - 2"c.
20 4G	4#3/0 & 1#6(G)- 2"c.
22.5 4	4#4/0 - 2 1/2"c.
22.5 3G	3#4/0 & 1#4(G) - 2 1/2"c.
22.5 4G	4#4/0 & 1#4(G) - 2 1/2"c.
40 4G	4#500MCM & 1#3(G) - 3 1/2"c.
80 4	2 PARALLEL RUNS OF 4#500MCM - 3 1/2"c.
120 4	4 PARALLEL RUNS OF 4#350MCM - 3 1/2"c.
160 4	5 PARALLEL RUNS OF 4#400MCM - 3 1/2"c.

NOTE: (APPLIES TO ALL PANELS)
THIS SCHEDULE IS STANDARD AND MAY INCLUDE ITEMS NOT REQUIRED FOR THIS PROJECT.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: POWER RISER DIAGRAM, DETAIL AND NOTES

ALABAMA No. 33579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.3

GARNER & ASSOCIATES ENGINEERING
901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 25-091

PANELBOARD SCHEDULE — PANEL 'MP'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
PANEL 'HAA'	42193			1	225/3	225/3	2	33072			PANEL 'HA'
"		42193		3	"	"	4		33072		"
"			42193	5	"	"	6			33072	"
SAPRE	0			7	225/3	225/3	8	41088			PANEL 'EQA'
"		0		9	"	"	10		41088		"
"			0	11	"	"	12			41088	"
PHP-1	33200			13	125/3	125/3	14	0			SPARE
"		33200		15	"	"	16		0		"
"			33200	17	"	"	18			0	"
PANEL 'HC'	81159			19	400/3	400/3	20	56946			PANEL 'HD'
"		81159		21	"	"	22		56946		"
"			81159	23	"	"	24			56946	"
PANEL 'HB'	19061			25	400/3		26				
"		19061		27	"		28				
"			19061	29	"		30				
				31			32				
				33			34				
				35			36				
				37			38				
				39			40				
				41			42				
SUB-TOTAL	175613	175613	175613					131106	131106	131106	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AE	TOTAL VA - A	306719
MAIN BREAKER : MCB 1600A	MAIN BUS: 1600A	TOTAL VA - B	306719
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL VA - C	306719
NOTES: PROVIDE U.L.S.E. LABEL	ENCLOSURE: NEMA 1	TOTAL VA	920157

LOCATION
ELEC. A133
TOTAL CONNECTED LOAD
1107.29 A

PANELBOARD SCHEDULE — PANEL 'HA'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
CANOPY LIGHTS	600			1	20	20	2				SITE LIGHTING
EXTERIOR LIGHTS		800		3	20	20	4		0		SPARE
PARKING LOT LIGHTS			800	5	20	20	6			0	SPARE
SPARE	0			7	20	20	8				SPARE
SPARE		0		9	20	20	10		0		SPARE
SPARE			0	11	20	20	12			0	SPARE
				13			14				
				15			16				
				17			18				
TRANSF. 'TLA'	14368			19	125/3		20				
75 KVA		14368		21			22				
			14368	23			24				
SPARE	0			25	20/3	20/3	26	0			SPARE
"		0		27	"	"	28		0		"
"			0	29	"	"	30			0	"
IHP-6 INDOOR	4676			31	20/3	20/3	32	4676			IHP-8 INDOOR
"		4676		33	"	"	34		4676		"
"			4676	35	"	"	36			4676	"
IHP-7 INDOOR	4676			37	20/3	20/3	38	4676			IHP-9 INDOOR
"		4676		39	"	"	40		4676		"
"			4676	41	"	"	42			4676	"
SUB-TOTAL	24320	24520	24520					9352	9352	9352	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AQ	TOTAL LOAD - A	33672
MAIN BREAKER : MLO	MAIN BUS: 225A	TOTAL LOAD - B	33872
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL LOAD - C	33872
NOTES:	ENCLOSURE: NEMA 1	TOTAL LOAD (VA)	101416

LOCATION
ELEC. A133
TOTAL CONN. CURRENT
122.04 A

PANELBOARD SCHEDULE — PANEL 'HAA'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
				1			2				
				3			4				
				5			6				
				7			8				
				9			10				
				11			12				
				13			14				
				15		20/2	16		3000		WH-4
				17			18			3000	6.0 KW
INVERTER 'INV'	6030			19	70/3	125/3	20	18455			PANEL 'EQB'
"		6030		21	"	"	22		18455		"
"			6030	23	"	"	24			18455	"
SPARE	0			25	20/3	20/3	26	0			SPARE
"		0		27	"	"	28		0		"
"			0	29	"	"	30			0	"
IHP-4 INDOOR	4427			31	20/3	20/3	32	4427			IHP-2 INDOOR
"		4427		33	"	"	34		4427		"
"			4427	35	"	"	36			4427	"
IHP-5 INDOOR	4427			37	20/3	20/3	38	4427			IHP-3 INDOOR
"		4427		39	"	"	40		4427		"
"			4427	41	"	"	42			4427	"
SUB-TOTAL	14884	14884	14884					27309	30309	30309	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AQ	TOTAL LOAD - A	42193
MAIN BREAKER : MLO	MAIN BUS: 225A	TOTAL LOAD - B	45193
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL LOAD - C	45193
NOTES:	ENCLOSURE: NEMA 1	TOTAL LOAD (VA)	132579

LOCATION
MECH. A141
TOTAL CONN. CURRENT
159.54 A

PANELBOARD SCHEDULE — PANEL 'HB'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
EXTERIOR BLDG. LIGHTS	360			1	20	20	2	2115			LIGHTS
POLE LIGHTS		400		3	20	20	4		1720		LIGHTS
SPARE			0	5	20	20	6			1000	LIGHTS
SPARE	0			7	20	20	8	1075			LIGHTS
SPARE		0		9	20	20	10		1075		LIGHTS
SPARE			0	11	20	20	12			700	NIGHT LTS/EMERG.
				13			14				
				15			16				
				17			18				
				19			20				
				21			22				
				23			24				
				25			26				
				27			28				
				29			30				
				31			32				
				33			34				
				35			36				
TRANSF. 'TLB'	17500			37	125/3	150/3	38	27447			PANEL 'EQC'
75 KVA		17500		39	"	"	40		27447		"
"			17500	41	"	"	42			27447	"
SUB-TOTAL	17860	17900	17500					30637	30242	29147	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AQ	TOTAL LOAD - A	48497
MAIN BREAKER : MLO	MAIN BUS: 400A	TOTAL LOAD - B	48142
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL LOAD - C	46647
NOTES:	ENCLOSURE: NEMA 1	TOTAL LOAD (VA)	143286

LOCATION
ELEC. A117
TOTAL CONN. CURRENT
172.43 A

PANELBOARD SCHEDULE — PANEL 'HC'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
GYM LTS	1925			1	20	20	2	1100			LIGHTS
GYM LTS		1875		3	20	20	4		1000		LIGHTS
GYM LTS			1925	5	20	20	6			300	NIGHT LIGHTS / EMERG.
GYM LTS	1875			7	20	20	8	975			MULTI PURPOSE LTS.
EXTERIOR LIGHTS		400		9	20	20	10		500		MULTI PURPOSE LTS.
EH-1			3000	11	20	20	12			700	MULTI PURPOSE LTS.
WH-1 3.32 KW	3320			13	20	20	14	1200			MULTI PURPOSE LTS.
WH-2 3.32 KW		3320		15	20	20	16		400		POLE LIGHTS
SPARE			0	17	20	20	18			700	CANOPY LTS.
SPARE	0			19	20	20	20	0			SPARE
SPARE		0		21	20	20	22		0		SPARE
SPARE			0	23	20	20	24			0	SPARE
				25			26				
				27			28				
				29			30				
				31			32				
SPARE		0		33	30/2	20/2	34		3000		WH-3
"			0	35	"	"	36			3000	6.0 KW
SPARE	0			37	30/3	30/3	38	0			SPARE
"		0		39	"	"	40		0		"
"			0	41	"	"	42			0	"
JOCKEY PUMP	553			43	20/3	20/3	44	0			SPARE
.5 HP		553		45	"	"	46		0		"
"			553	47	"	"	48			0	"
IHP-1 INDOOR	4676			49	20/3	125/3	50	22598			TRANSF. 'TLC'
"		4676		51	"	"	52		22598		75 KVA
"			4676	53	"	"	54			22598	"
PAC-1	21580			55	90/3	90/3	56	21580			PAC-2
"		21580		57	"	"	58		21580		"
"			21580	59	"	"	60			21580	"
SUB-TOTAL	33929	32404	31734					47453	49078	48878	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AQ	TOTAL LOAD - A	81382
MAIN BREAKER : MLO	MAIN BUS: 400A	TOTAL LOAD - B	81482
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL LOAD - C	80612
NOTES:	ENCLOSURE: NEMA 1	TOTAL LOAD (VA)	243476

LOCATION
ELEC. B105b
TOTAL CONN. CURRENT
292.99 A

PANELBOARD SCHEDULE — PANEL 'HD'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
LIGHTS	1500			1	20	20	2	0			SPARE
SPARE		0		3	20	20	4		0		SPARE
SPARE			0	5	20	20	6			0	SPARE
				7			8				
				9			10				
				11			12				
				13			14				
				15			16				
				17			18				
WH-5	4000			19	20/3		20				
12.0 KW		4000		21	"		22				
"			4000	23	"		24				
IHP-10 INDOOR	4427			25	20/3	20/3	26	4676			IHP-15 INDOOR
"		4427		27	"	"	28		4676		"
"			4427	29	"	"	30			4676	"
IHP-11 INDOOR	5063			31	20/3	20/3	32	4427			IHP-16 INDOOR
"		5063		33	"	"	34		4427		"
"			5063	35	"	"	36			4427	"
IHP-12 INDOOR	4427			37	20/3	20/3	38	4676			IHP-17 INDOOR
"		4427		39	"	"	40		4676		"
"			4427	41	"	"	42			4676	"
IHP-13 INDOOR	4427			43	20/3	20/3	44	4676			IHP-18 INDOOR
"		4427		45	"	"	46		4676		"
"			4427	47	"	"	48			4676	"
IHP-14 INDOOR	4427			49	20/3	20/3	50	4676			IHP-19 INDOOR
"		4427		51	"	"	52		4676		"
"			4427	53	"	"	54			4676	"
SPARE	0			55	30/3	50/3	56	6544			TRANSF. 'TLD'
"		0		57	"	"	58		6544		30 KVA
"			0	59	"	"	60			6544	"
SUB-TOTAL	28271	26771	26771					29675	29675	29675	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AQ	TOTAL LOAD - A	57946
MAIN BREAKER : MLO	MAIN BUS: 400A	TOTAL LOAD - B	56446
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL LOAD - C	56446
NOTES:	ENCLOSURE: NEMA 1	TOTAL LOAD (VA)	170838

LOCATION
ATTIC PLATFORM
TOTAL CONN. CURRENT
205.58 A

PANELBOARD SCHEDULE — PANEL 'EQA'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
				1			2				
				3			4				
				5			6				
				7			8				
				9			10				
				11			12				
SPARE	0			13	20/3	20/3	14	4427			OHP-5 OUTDOOR
"		0		15	"	"	16		4427		"
"			0	17	"	"	18			4427	"
OHP-1 OUTDOOR	4676			19	20/3	20/3	20	4676			OHP-6 OUTDOOR
"		4676		21	"	"	22		4676		"
"			4676	23	"	"	24			4676	"
OHP-2 OUTDOOR	4427			25	20/3	20/3	26	4676			OHP-7 OUTDOOR
"		4427		27	"	"	28		4676		"
"			4427	29	"	"	30			4676	"
OHP-3 OUTDOOR	4427			31	20/3	20/3	32	4676			OHP-8 OUTDOOR
"		4427		33	"	"	34		4676		"
"			4427	35	"	"	36			4676	"
OHP-4 OUTDOOR	4427			37	20/3	20/3	38	4676			OHP-9 OUTDOOR
"		4427		39	"	"	40		4676		"
"			4427	41	"	"	42			4676	"
SUB-TOTAL	17957	17957	17957					23131	23131	23131	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AE	TOTAL VA - A	41088
MAIN BREAKER : MLO	MAIN BUS: 225A	TOTAL VA - B	41088
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL VA - C	41088
NOTES:	ENCLOSURE: NEMA 3R	TOTAL VA	123264

LOCATION
EXTERIOR WALL
TOTAL CONNECTED LOAD
148.33 A

PANELBOARD SCHEDULE — PANEL 'EQB'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
				1			2				
				3			4				
				5			6				
				7			8				
				9			10				
				11			12				
				13			14				
				15			16				
				17			18				
OHP-16 OUTDOOR	4427			19	20/3	20/3	20	4676			OHP-18 OUTDOOR
"		4427		21	"	"	22		4676		"
"			4427	23	"	"	24			4676	"
OHP-17 OUTDOOR	4676			25	20/3	20/3	26	4676			OHP-19 OUTDOOR
"		4676		27	"	"	28		4676		"
"			4676	29	"	"	30			4676	"
SUB-TOTAL	9103	9103	9103					9352	9352	9352	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AE	TOTAL VA - A	18455
MAIN BREAKER : MLO	MAIN BUS: 125A	TOTAL VA - B	18455
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL VA - C	18455
NOTES:	ENCLOSURE: NEMA 3R	TOTAL VA	55365

LOCATION
EXTERIOR WALL
TOTAL CONNECTED LOAD
66.62 A

PANELBOARD SCHEDULE — PANEL 'EQC'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
				1			2				
				3			4				
				5			6				
				7			8				
				9			10				
				11			12				
OHP-10 OURDOOR	4427			13	20/3	20/3	14	4427			OHP-13 OUTDOOR
"		4427		15	"	"	16		4427		"
"			4427	17	"	"	18			4427	"
OHP-11 OUTDOOR	5063			19	20/3	20/3	20	4427			OHP-14 OUTDOOR
"		5063		21	"	"	22		4427		"
"			5063	23	"	"	24			4427	"
OHP-12 OUTDOOR	4427			25	20/3	20/3	26	4676			OHP-15 OUTDOOR
"		4427		27	"	"	28		4676		"
"			4427	29	"	"	30			4676	"
SUB-TOTAL	13917	13917	13917					13530	13530	13530	SUB-TOTAL

VOLTAGE : 277/480V, 3PH, 4W	PANEL TYPE: AE	TOTAL VA - A	27447
MAIN BREAKER : MLO	MAIN BUS: 225A	TOTAL VA - B	27447
MOUNTING: SURFACE	A.I.C. RATING: 65K	TOTAL VA - C	27447
NOTES:	ENCLOSURE: NEMA 3R	TOTAL VA	82341

LOCATION
EXTERIOR WALL
TOTAL CONNECTED LOAD
99.09 A

PANEL LOCATIONS

PANEL	LOCATION	SHEET NO.
MP	ELEC. A133	E3.1
HA	ELEC. A133	E3.1
HAA	MECH. A141	E3.1
HB	ELEC. A117	E3.1
HC	ELEC. B105b	E3.2
HD	ATTIC	E4.3
EQA	EXTERIOR WALL	E3.1
EQB	EXTERIOR WALL	E3.1
EQC	EXTERIOR WALL	E3.1

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Project No: 25-091

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: PANELBOARD SCHEDULE

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 35579
1/14/26
JOSEPH MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.4

PANELBOARD SCHEDULE — PANEL 'LA'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
RECEPTS. A130	800			1	20	20	2	800			RECEPTS. A145
RECEPTS. A130		600		3	20	20	4		600		RECEPTS. A145
RECEPTS. A130			800	5	20	20	6			800	RECEPTS. A145
RECEPTS. A132	800			7	20	20	8	800			RECEPTS. A143
RECEPTS. A132		600		9	20	20	10		600		RECEPTS. A143
RECEPTS. A132			1000	11	20	20	12			800	RECEPTS. A143
RECEPTS. A134	800			13	20	20	14	800			RECEPTS. A140
RECEPTS. A134		600		15	20	20	16		600		RECEPTS. A140
RECEPTS. A134			800	17	20	20	18			800	RECEPTS. A140
RECEPTS. A136	800			19	20	20	20	800			RECEPTS. A140
RECEPTS. A136		600		21	20	20	22		600		RECEPTS. A140
RECEPTS. A136			800	23	20	20	24			800	RECEPTS. A140
EWC	1200			25	20GF	20	26	800			MOTORIZED DAMPERS
RECEPTS. A137		1000		27	20	20	28		800		MOTORIZED DAMPERS
DH-2			828	29	20	20	30			800	MOTORIZED DAMPERS
DH-3	828			31	20	20	32	800			MOTORIZED DAMPERS
DH-4		828		33	20	20	34		828		DH-6
DH-5			828	35	20	20	36			828	DH-7
HAND DRYER	1500			37	20GF	20	38	828			DH-8
HAND DRYER		1500		39	20GF	20	40		828		DH-9
HAND DRYER			1500	41	20GF	20	42			800	PLUMBING FIXTURES
HAND DRYER	1500			43	20GF	20	44	0			SPARE
SPARE		0		45	20	20	46		0		SPARE
SPARE			0	47	20	20	48			0	SPARE
SPARE	0			49	20	20	50	0			SPARE
SPARE		0		51	20	20	52		0		SPARE
SPARE			0	53	30/2	30/2	54			0	**SPARE**
|	0			55	|	|	56	0			|
OMS-2 OUTDOOR		1248		57	20/2	25/2	58		2392		**OMS-3 OUTDOOR**
|			1248	59	|	|	60			2392	|
SUB-TOTAL	8228	6976	7804					5628	7248	8020	**SUB-TOTAL**

VOLTAGE : 120/208V, 3PH, 4W	**PANEL TYPE:** AQ	**TOTAL LOAD - A**	13856	**LOCATION**	
MAIN BREAKER : MCB 225A	**MAIN BUS:** 225A	**TOTAL LOAD - B**	14224	**ELEC. A133**	
MOUNTING: SURFACE	**A.I.C. RATING:** 10K	**TOTAL LOAD - C**	15824	**TOTAL CONN. CURRENT**	
NOTES:	**ENCLOSURE:** NEMA 1	**TOTAL LOAD (VA)**	43904	**121.96 A**	

PANELBOARD SCHEDULE — PANEL 'LB'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
RECEPTS. A110	800			1	20	20	2	800			RECEPTS. A112
RECEPTS. A110		600		3	20	20	4		600		RECEPTS. A112
RECEPTS. A110			800	5	20	20	6			800	RECEPTS. A112
RECEPTS. A108	800			7	20	20	8	800			RECEPTS. A114
RECEPTS. A108		600		9	20	20	10		600		RECEPTS. A114
RECEPTS. A108			800	11	20	20	12			1000	RECEPTS. A114
RECEPTS. A111	800			13	20	20GF	14	1200			EWC
RECEPTS. A102,A107		800		15	20	20GF	16		1200		EWC
RECEPTS. A105			800	17	20	20	18			600	RECEPTS. A115,A116
RECEPTS. A103	600			19	20	20	20	1000			RECEPTS. A128
RECEPTS. A103		600		21	20	20GF	22		1200		RECEPTS. A128 REFRIG.
RECEPTS. A103			1000	23	20	20	24			400	RECEPTS. A128
RECEPTS. A129	600			25	20	20	26	600			RECEPTS. A117
RECEPTS. A129		1400		27	20	20	28		400		RECEPTS. A121
RECEPTS. A129			400	29	20	20	30			500	FIRE ALARM (RED LOCKOUT)
RECEPTS. A129	400			31	20	20	32	800			RECEPTS. A118
RECEPTS. A129b		400		33	20	20	34		600		RECEPTS. A118
RECEPTS. A129B			400	35	20	20	36			800	RECEPTS. A118
RECEPTS. A129B	400			37	20	20	38	800			RECEPTS. A120
RECEPTS. A129b		400		39	20	20	40		600		RECEPTS. A120
RECEPTS. A129b			400	41	20	20	42			800	RECEPTS. A120
SECOND SECTION											
HAND DRYER	1500			43	20GF	20	44	800			RECEPTS. A123
HAND DRYER		1500		45	20GF	20	46		600		RECEPTS. A123
HAND DRYER			1500	47	20GF	20	48			800	RECEPTS. A123
HAND DRYER	1500			49	20GF	20	50	800			RECEPTS. A125
HAND DRYER		1500		51	20GF	20	52		600		RECEPTS. A125
HAND DRYER			1500	53	20GF	20	54			1000	RECEPTS. A125
HAND DRYER	1500			55	20GF	20	56	1200			PLUMBING FIXTURES
HAND DRYER		1500		57	20GF	20	58		600		PLUMBING FIXTURES
SPARE			0	59	20	20	60			0	SPARE
SPARE	0			61	20	20	62	0			SPARE
SPARE		0		63	20	20	64		0		SPARE
SPARE			0	65	20	20	66			0	SPARE
SPARE	0			67	20	20	68	0			SPARE
SPARE		0		69			70		0		SPAER
SPARE			0	71			72			0	SPARE
SPARE	0			73			74	0			SPARE
SPARE		0		75			76		0		SPARE
SPARE			0	77			78			0	SPARE
SPARE	0			79			80	0			SPARE
RECEPT. A129b		2500		81	30/2	25/2	82		2392		**OMS-5 OUTDOOR**
|			2500	83	|	|	84			2392	|
SUB-TOTAL	8900	11800	7600					8800	9392	9092	**SUB-TOTAL**

VOLTAGE : 120/208V, 3PH, 4W	**PANEL TYPE:** AQ	**TOTAL LOAD - A**	17700	**LOCATION**	
MAIN BREAKER : MCB 225A	**MAIN BUS:** 225A	**TOTAL LOAD - B**	21192	**ELEC. ROOM**	
MOUNTING: SURFACE	**A.I.C. RATING:** 10K	**TOTAL LOAD - C**	16692	**TOTAL CONN. CURRENT**	
NOTES:	**ENCLOSURE:** NEMA 1	**TOTAL LOAD (VA)**	55584	**154.40 A**	

PANELBOARD SCHEDULE — PANEL 'LC'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
BASKETBALL GOAL	1200			1	20	20	2	600			DAMPERS / RECEPT.
BASKETBALL GOAL		1200		3	20	20	4		1000		DH-1
BASKETBALL GOAL			1200	5	20	20	6			1200	RECEPTS. B108
BASKETBALL GOAL	1200			7	20	20GF	8	1000			EWC B108
BASKETBALL GOAL		1200		9	20	20	10		1200		RECEPTS. B112
BASKETBALL GOAL			1200	11	20	20GF	12			1500	HAND DRYER
HAND DRYER	1500			13	20GF	20	14	1000			RECEPTS. B105,B106,B107
HAND DRYER		1500		15	20GF	20GF	16		1000		EWC B101
EWC B101			1000	17	20GF	20	18			800	RECEPTS. B116
RECEPTS. B102	800			19	20	20	20	1400			RECEPTS. B115
RECEPTS. B117		800		21	20	20	22		1000		RECEPTS. B112
EF-18			500	23	20	20	24			600	RECEPTS.B112
RECEPT. SOUND RACK	400			25	20	20	26	400			RECEPT. WB1 B1112
RECEPT. SOUND RACK		400		27	20	20	28		400		RECEPT. WB1 B1112
RECEPT. SOUND RACK			400	29	20	20	30			400	RECEPT. WAP B112
RECEPT. SOUND RACK	400			31	20	20	32	1200			PLUMBING FIXTURES
SPARE		0		33	20	20	34		0		SPARE
SPARE			0	35	20	20	36			0	SPARE
SPARE	0			37	20	20	38	0			SPARE
SPARE		0		39	20	20	40		0		SPARE
SPARE			0	41	20	20	42			0	SPARE
				43			44				
				45			46				
				47			48				
				49			50				
OMS-1 OUTDOOR		1248		51	20/2		52				
|			1248	53	|		54				
BLEACHERS	2880			55	30/3	150/3	56	9019			**PANEL 'SL'**
|		2880		57	|	|	58		9019		|
|			2880	59	|	|	60			9019	|
SUB-TOTAL	8380	9228	8428					14619	13619	13519	**SUB-TOTAL**

VOLTAGE : 120/208V, 3PH, 4W	**PANEL TYPE:** AQ	**TOTAL LOAD - A**	22999	**LOCATION**	
MAIN BREAKER : MCB 225A	**MAIN BUS:** 225A	**TOTAL LOAD - B**	22847	**ELEC. B105b**	
MOUNTING: SURFACE	**A.I.C. RATING:** 10K	**TOTAL LOAD - C**	21947	**TOTAL CONN. CURRENT**	
NOTES:	**ENCLOSURE:** NEMA 1	**TOTAL LOAD (VA)**	67793	**188.31 A**	

PANELBOARD SCHEDULE — PANEL 'LD'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
MOTORIZED DAMPERS	600			1	20	20	2	1500			MOTORIZEX DAMPERS/ CIRC. PUMP
MOTORIZED DAMPERS		600		3	20	20	4		600		MOTORIZEX DAMPERS
MOTORIZED DAMPERS			1000	5	20	20	6			828	DH-10
DH-16	828			7	20	20	8	828			DH-11
DH-17		828		9	20	20	10		828		DH-12
DH-18			828	11	20	20	12			828	DH-13
DH-19	828			13	20	20	14	828			DH-14
RECEPTS.		600		15	20	20	16		0		DH-15
SPARE			0	17	20	20	18			0	SPARE
SPARE	0			19	20	20	20	0			SPARE
SPARE		0		21	20	20	22		0		SPARE
SPARE			0	23	20	20	24			0	SPARE
				25			26				
				27			28				
				29			30				
				31			32				
				33			34				
SPARE			0	35	30/2	30/2	36			0	**SPARE**
|	0			37	|	|	38	0			|
OMS-4 OUTDOOR		1248		39	20/2	30/2	40		0		**SPARE**
|			1248	41	|	|	42			0	|
SUB-TOTAL	2256	3276	3076					3156	1428	1656	**SUB-TOTAL**

VOLTAGE : 120/208V, 3PH, 4W	**PANEL TYPE:** AQ	**TOTAL LOAD - A**	5412	**LOCATION**	
MAIN BREAKER : MCB 100A	**MAIN BUS:** 125A	**TOTAL LOAD - B**	4704	**ATTIC PLATFORM**	
MOUNTING: SURFACE	**A.I.C. RATING:** 10K	**TOTAL LOAD - C**	4732	**TOTAL CONN. CURRENT**	
NOTES:	**ENCLOSURE:** NEMA 1	**TOTAL LOAD (VA)**	14848	**41.24 A**	

PANELBOARD SCHEDULE — PANEL 'SL'

DIRECTORY	LOAD (VOLT*AMPS) A	B	C	CKT NO	BRKR AMPS	BRKR AMPS	CKT NO	LOAD (VOLT*AMPS) A	B	C	DIRECTORY
MOBILE HEATED CAB	1656			1	20	20	2	1656			MOBILE HEADED CAB.
REFRI		1272		3	20	20	4		1272		REFR.
RECEPT.			200	5	20	20	6			200	RECEPT.
HAND DRYER	1500			7	20GF	20GF	8	1500			HAND DRYER
RECEPTS. B109		600		9	20	20	10		800		RECEPTS. B108
RECEPTS. B109			800	11	20	20	12			0	SPARE
SPARE	0			13	20	20	14	0			SPARE
SPARE		0		15	20	20	16		0		SPARE
SPARE			0	17	20	20	18			0	SPARE
				19			20				
				21			22				
				23			24				
				25		60/3	26	5200			**SERVING LINE PANEL**
				27		|	28		5200		|
				29		|	30			5200	|
SUB-TOTAL	3156	1872	1000					8356	7272	5400	**SUB-TOTAL**

VOLTAGE : 120/208V, 3PH, 4W	**PANEL TYPE:** AQ	**TOTAL LOAD - A**	11512	**LOCATION**	
MAIN BREAKER : MLO	**MAIN BUS:** 225A	**TOTAL LOAD - B**	9144	**STOR. B109**	
MOUNTING: RECESSED	**A.I.C. RATING:** 10K	**TOTAL LOAD - C**	6400	**TOTAL CONN. CURRENT**	
NOTES:	**ENCLOSURE:** NEMA 1	**TOTAL LOAD (VA)**	27056	**75.16 A**	

PANELBOARD SCHEDULE NOTES

1. PANELBOARD DESIGNATIONS INDICATED IN SCHEDULES ARE THOSE OF ABB. EQUAL EQUIPMENT BY OTHER MANUFACTURERS WILL BE CONSIDERED. IF OTHER MANUFACTURER'S PANELS ARE TO BE USED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPACE REQUIREMENTS.
2. EACH PANELBOARD SHALL HAVE AN INTEGRATED EQUIPMENT RATING EQUAL TO THE LOWEST A.I.C. OF ANY CIRCUIT BREAKER IN PANEL.
3. WHERE CURRENT LIMITING CIRCUIT BREAKERS ARE USED, THEY SHALL BE SERIES RATED FOR DOWNSTREAM PROTECTION. SUBMITTAL DATA SHALL INCLUDE A CURRENT U.L. APPROVED TABLE OF SERIES CONNECTED RATINGS OF ALL CIRCUIT BREAKERS TO BE USED. ALL 120/208V, 3PH, 4W PANELS SHALL BE SERIES RATED UNLESS NOTED OTHERWISE.
4. AT EACH FLUSH MOUNTED PANELBOARD PROVIDE SIX (6) EACH 1" CONDUITS STUBBED UP TO ABOVE ACCESSIBLE CEILING AND TERMINATE FOR FUTURE USE.
5. ALL PANELS SHALL HAVE DOOR IN DOOR CONSTRUCTION. DOOR SHALL BE INSTALLED CORRECTLY PER MANUFACTURERS INSTRUCTIONS. WHEN HINGED COVER DOOR IS OPENED, INTERIOR DEAD FRONT OPENS WITH DOOR.
6. ALL BRANCH CIRCUIT BREAKERS SHALL BE BOLT ON TYPE.
7. ALL CIRCUIT BREAKERS 100A AND ABOVE SHALL BE SOLID STATE BREAKERS TYPE LSI.
8. CONTRACTOR TO PROVIDE ALL BRANCH CIRCUIT NUMBERS USING PERMANENT CIRCUIT MARKERS WITH THE PROPER CIRCUIT NUMBER ATTACHED NEXT TO EACH BREAKER. STICK ON NUMBERS WILL NOT BE APPROVED. ON RELIA BRANCH BREAKERS, CONTRACTOR TO PROVIDE FIELD MOUNTED PHENOLIC NAMEPLATE INDICATING EACH LOAD. NO HAND WRITING VISIBLE ON THE PANEL WILL BE ACCEPTABLE.
9. ALL BLANK SPACES SHALL BE ASSUMED BUSSED SPACE FOR EACH PANELBOARD.
10. PANEL SHALL HAVE SURGE PROTECTION DEVICE. SURGE PROTECTION DEVICE MUST BE INSTALLED INTERNALLY TO THE ELECTRICAL DISTRIBUTION EQUIPMENT AND SHIPPED FROM THE MANUFACTURER'S FACTORY AS A COMPLETE U.L. LISTED ASSEMBLY. PANELBOARD SPDS SHALL BE ABB TMENVNE/100/200, OR EQUAL. VOLTAGES FOR DEVICES SHALL BE INDICATED ON THE PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM. **THIS NOTE APPLIES TO ALL PANELS.**
11. ALL TWO SECTION PANELS SHALL HAVE EQUAL CAN HEIGHTS.
12. PROVIDE U.L.S.E. (U.L. SERVICE ENTRANCE) LABEL. THIS NOTE ONLY APPLIES TO PANELS NOTED SO.
13. A.I.C. RATING, SR STANDS FOR SERIES RATED.
14. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
15. PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
16. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL. ENGINEER WILL NOT ACCEPT JOB UNTIL THESE NAMEPLATES ARE PROVIDED.
17. PROVIDE TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING AND FOR LIGHTING AND RECEPTACLE CIRCUITS THE ROOM NUMBERS THAT CIRCUIT IS SERVING SHALL BE INCLUDED IN DIRECTORY.
18. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH N.E.C. 110.16 REGARDING POTENTIAL HAZARDS OF ARC FLASH.
19. EACH SERVICE EQUIPMENT MAIN PANEL SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTRACTOR IS RESPONSIBLE FOR CALCULATION AND PROPER MARKINGS AND MUST COMPLY WITH NEC 110.24. FIELD MARKINGS SHALL UTILIZE THE SAME METHOD AS PANELBOARD NAMEPLATES OR LABELS AND SHALL BE ON OUTSIDE COVER OF NEMA 1 PANELS AND ON INSIDE OF NEMA 3R PANELS.
20. PROVIDE FACTORY INSTALL POWER METERING EQUIPMENT EQUAL TO ABB MODEL #EPM2000. THIS NOTE ONLY APPLIES WHERE NOTED SO.
21. CONTRACTOR SHALL INSTALL GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTION CIRCUIT BREAKERS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
22. BREAKERS NOTED WITH *GF ARE REQUIRED TO BE GROUND-FAULT TYPE BREAKERS.
23. BREAKERS NOTED WITH *ST ARE REQUIRED TO BE SHUNT-TRIP TYPE BREAKERS.

SWITCHBOARD SCHEDULE NOTES

1. SWITCHBOARD DESIGNATIONS INDICATED IN SCHEDULES ARE THOSE OF ABB. EQUAL EQUIPMENT BY OTHER MANUFACTURERS WILL BE CONSIDERED. IF OTHER MANUFACTURER'S PANELS ARE TO BE USED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPACE REQUIREMENTS.
2. EACH SWITCHBOARD SHALL HAVE AN INTEGRATED EQUIPMENT RATING EQUAL TO THE LOWEST A.I.C. OF ANY CIRCUIT BREAKER IN SWITCHBOARD.
3. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE.
4. SWITCHBOARD MUST HAVE BUSSED INCOMING LINE LUG SECTION. NO SIDE ACCESS PERMITTED. SWITCHBOARD MUST HAVE A EMPTY SECTION FOR SERVICE ENTRANCE CONDUCTOR TERMINATION AND ENTRY.
5. SWITCHBOARD SHALL HAVE INTEGRAL SURGE PROTECTION DEVICE. ABB TYPE THENVNE, 200K A PER PHASE, 200K A.I.C. WITH INTEGRAL CIRCUIT BREAKER TYPE SEL WITH INDICATING LIGHTS, ALARM, TEST. FORM C CONTACTS AND A SURGE COUNTER. **THIS NOTE APPLIES TO ALL SWITCHBOARDS.**
6. IN MAIN SWITCHBOARD, ANY CIRCUIT BREAKERS, RATED 1000 AMPERES OR MORE SHALL BE PROVIDED WITH GROUND-FAULT PROTECTION. REFER TO NEC 230.95 MUST BE PROVIDED.
7. CONTRACTOR TO PROVIDE ALL BRANCH CIRCUIT NUMBERS USING PERMANENT CIRCUIT MARKERS WITH THE PROPER CIRCUIT NUMBER ATTACHED NEXT TO EACH BREAKER. STICK ON NUMBERS WILL NOT BE APPROVED. ON SPECTRA BRANCH BREAKERS, CONTRACTOR TO PROVIDE FIELD MOUNTED PHENOLIC NAMEPLATE INDICATING EACH LOAD.
8. PROVIDE U.L.S.E. (U.L. SERVICE ENTRANCE) LABEL.
9. EACH SERVICE EQUIPMENT MAIN PANEL SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTRACTOR IS RESPONSIBLE FOR CALCULATION AND PROPER MARKINGS AND MUST COMPLY WITH NEC 110.24. FIELD MARKINGS SHALL UTILIZE THE SAME METHOD AS PANELBOARD NAMEPLATES OR LABELS AND SHALL BE ON OUTSIDE COVER OF NEMA 1 PANELS AND ON INSIDE OF NEMA 3R PANELS.
10. PROVIDE FACTORY INSTALL DIGITAL POWER METERING EQUIPMENT AS REQUIRED.
11. PROVIDE ARC ENERGY REDUCTION SWITCHING AS REQUIRED TO COMPLY WITH NEC 240.87. PROVIDE DOCUMENTATION OF THIS ON A PLAQUE AS SOON AS YOU ENTER THE MAIN ELECTRICAL ROOM.
12. ALL CIRCUIT BREAKERS SHALL BE SOLID STATE BREAKERS TYPE LSI.

PANEL LOCATIONS

PANEL	LOCATION	SHEET NO.
LA	ELEC. A133	E3.1
LB	ELEC. A117	E3.1
LC	ELEC. A133	E3.2
LD	ATTIC	E4.3
SL	STOR. B109	E3.2

LATHAN ▪ McKEE ARCHITECTS

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Project No: 25-091

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: PANELBOARD SCHEDULE AND NOTES

ALABAMA LICENSED PROFESSIONAL ENGINEER — No. 35579 — 1/14/26 — MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

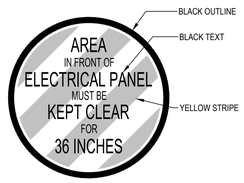
SHEET NO: E0.4.1

1 E0.5 TYPICAL ARC FLASH WARNING LABEL DETAIL

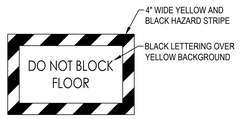
NOT TO SCALE

NOTES:

1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS PER N.E.C. 110.16.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE. ALL OTHER LABELS MUST BE SUBMITTED FOR APPROVAL.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE 4" HIGH AND 6" WIDE FOR INDOOR AND OUTDOOR EQUIPMENT.



TYPE 'A'



TYPE 'B'

3 E0.5 ELECTRICAL EQUIPMENT CLEARANCE MARKING

NOT TO SCALE

NOTES:

1.THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL PANELS.

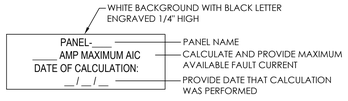
PANEL WORKING SPACES

NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE		
	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3'-0"	3'-0"	3'-0"
151-600	3'-0"	3'-6"	4'-0"

NOTE:

WHERE THE CONDITIONS ARE AS FOLLOWS:

- CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
- CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
- CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.



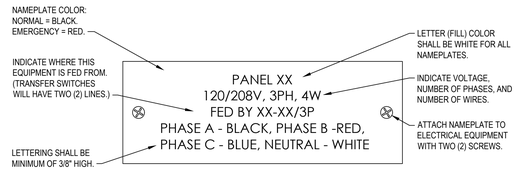
TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

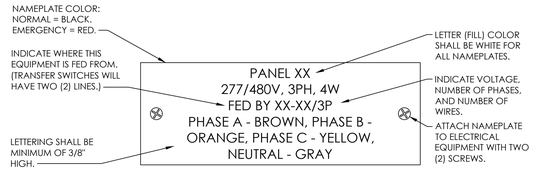
6 E0.5 SERVICE ENTRANCE FAULT CURRENT NAMEPLATE DETAIL

NOT TO SCALE

NOTE:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



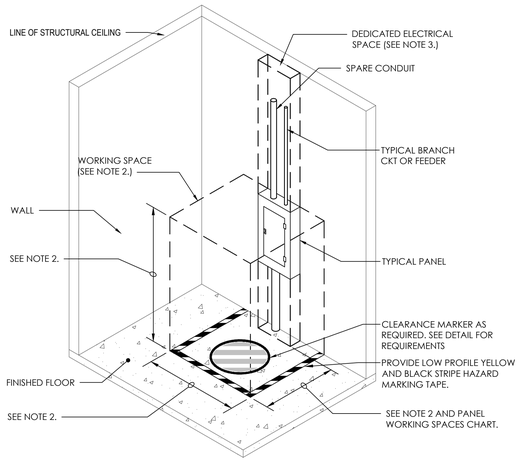


2 E0.5 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL

NOT TO SCALE

NOTES:

1. THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, ETC.
2. NAMEPLATES SHALL BE MOUNTED NEAR THE TOP AND CENTER OF EQUIPMENT.

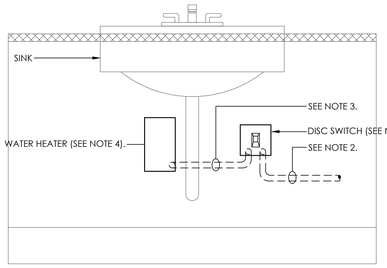


4 E0.5 ELECTRICAL PANEL WORKING CLEARANCES

NOT TO SCALE

NOTES:

1. DIMENSIONS SHOWN ARE MINIMUM.
2. WORKING SPACE IS DEFINED AS THE SPACE IN FRONT OF THE PANEL FOR EXAMINATION, ADJUSTMENTS, SERVICING AND/OR MAINTENANCE WHILE ENERGIZED. IN ALL CASES WORK SPACES SHALL PERMIT AT LEAST A 90 DEG. OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
   - WIDTH: 30" OR WIDTH OF EQUIPMENT (WHICHEVER IS GREATER)
   - HEIGHT: 6'-6" FROM FLOOR OR HEIGHT OF EQUIPMENT. (WHICHEVER IS GREATER)
   - DEPTH: DEPENDS ON CONDITIONS OUTLINED IN PANEL WORKING SPACES CHART.
3. DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT, EXTENDING FROM FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING. (WHICHEVER IS LOWER)
4. SEE NFPA 70, CURRENT NEC.

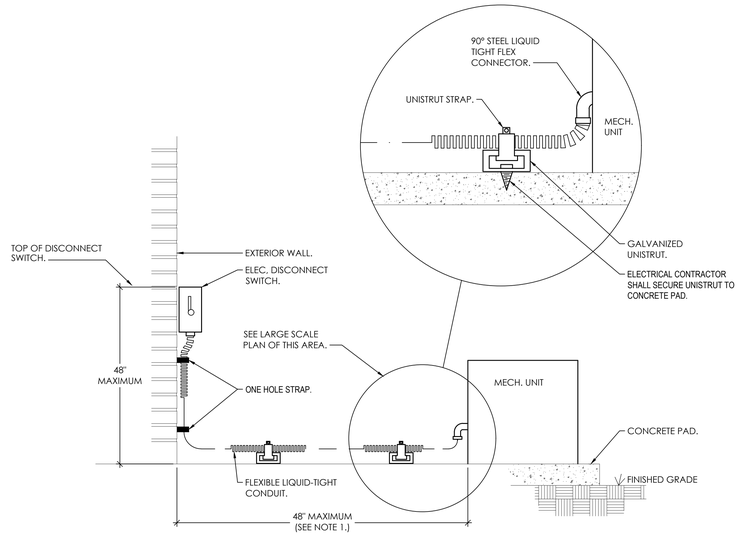


7 E0.5 INSTANTANEOUS WATER HEATER DETAIL

NOT TO SCALE

NOTES:

1. FURNISH AND INSTALL A FLUSH MOUNTED 20 AMP, 1 POLE, 277V, MANUAL CONTACTOR, MOUNTED AS SHOW. LOCATE DISCONNECT SWITCH BELOW LAVATORY, MOUNT NEATLY AND SECURELY.
2. 2#10 & 1#10(G)-1/2"c. FROM PANEL AS WRITTEN IN NOTE. ROUTE CONCEALED.
3. 2#10 & 1#10(G)-1/2"c. FROM DISCONNECT SWITCH TO WATER HEATER. ROUTE CONCEALED.
4. WATER HEATER FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. MAKE ELECTRICAL CONNECTION AS PER MANUFACTURER'S REQUIREMENTS.

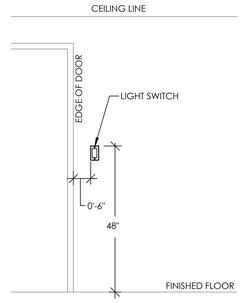


5 E0.5 TYP. MECH. UNIT CONNECTION DETAIL

NOT TO SCALE

NOTE:

1. FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECHANICAL UNIT, STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECHANICAL UNIT, WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.



8 E0.5 TYPICAL LIGHT SWITCH INSTALLATION DETAIL

NOT TO SCALE

NOTES:

1. MOUNT DEVICES ON SAME VERTICAL CENTERLINE.
2. THERMOSTATS SHALL BE MOUNTED PER ADA.
3. THE LIGHT SWITCH MAY NOT APPLY IN ALL CASES.
4. IF THE THERMOSTAT IS SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
5. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ELECTRICAL DETAILS

ALABAMA No. 33579 PROFESSIONAL ENGINEER MORGAN GARNER 1/14/26

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.5

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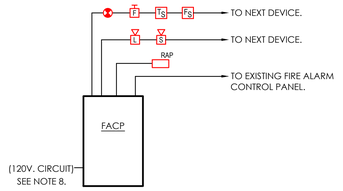
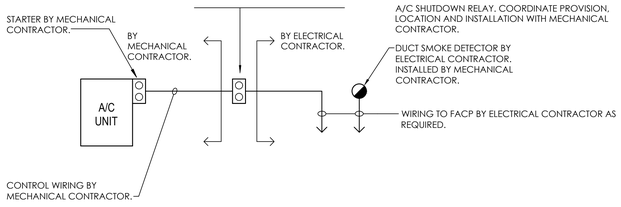


1 E0.6 FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE:

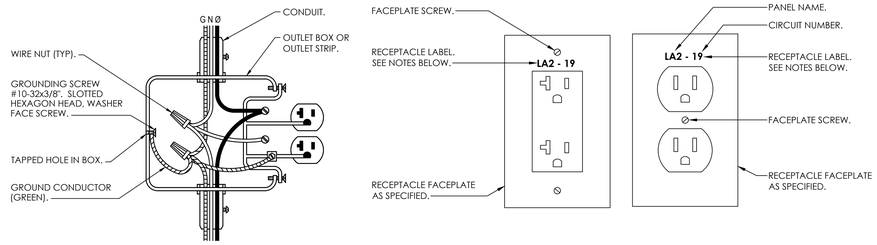
NOTES:

1. PROVIDE WIRING IN RED CONDUIT PER MANUFACTURER'S REQUIREMENTS.
2. SEE FLOOR PLAN FOR LOCATION AND QUANTITY OF DEVICES.
3. COORDINATE LOCATIONS AND CONNECTIONS OF HVAC SHUTDOWN RELAYS WITH HVAC/CONTROLS VENDOR.
4. PROVIDE ADDRESSABLE SYSTEM.
5. PROVIDE CONNECTION FOR TAMPER & FLOW SWITCHES AND OS&Y VALVE. SEE CIVIL/PLUMBING PLANS FOR LOCATIONS.
6. IF NOT SHOWN ON FLOOR PLANS PROVIDE 120V. CIRCUIT FOR FACP POWER.
7. DEVICES ARE TO BE RED WITH "ALARM" ENGRAVING TO COMPLY WITH FIRE ALARM USE.
8. CIRCUIT BREAKER TO HAVE A RED HANDLE AND IS BE LOCKABLE.
9. COMMUNICATIONS CABLING AS SPECIFIED. TYPICAL



2 E0.6 DUCT SMOKE DETECTOR CONNECTION DETAIL

NOT TO SCALE



3 E0.6 TYPICAL RECEPTACLE & FACEPLATE DETAIL

NOT TO SCALE

1. NEUTRAL AND GROUND CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICES WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.
2. RECEPTACLE FACEPLATES SHALL BE LABELED WITH THE PANEL NAME AND CIRCUIT NUMBER IT IS FED FROM.
3. LETTERING SHALL BE A MINIMUM OF 3/16" HIGH.
4. STAINLESS STEEL FACEPLATE
   LETTER (FILL) COLOR:
   NORMAL = WHITE.
   EMERGENCY = RED.
   * STAINLESS STEEL FACEPLATE LABELS SHALL BE ENGRAVED.
4. PLASTIC FACEPLATE
   LETTER (FILL) COLOR:
   NORMAL = BLACK.
   EMERGENCY = RED.
   * PLASTIC FACEPLATE LABELS SHALL BE LASER-PRINTED ON CLEAR SELF ADHESIVE VINYL.

PAPER STICK ON NUMBERS WILL NOT BE ACCEPTED.

FIRE ALARM SYSTEM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
   PRIMARY POWER - 120V AC
   NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC
   SIGNALING LINE CIRCUIT (SLC) - 24V DC
5. ALL CLASS 'B' CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT RUN IN THE SAME CABLE OR RACEWAY.
6. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
7. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
9. PROVIDE ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT PANELS, AMPLIFIERS, POWER SUPPLIES, ETC. FOR FUTURE CAPACITY TO HAVE SYSTEM WORK CORRECTLY AS ONE SYSTEM.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE.
11. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". ALL FIRE ALARM CONDUIT SHALL BE RED.
12. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
13. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.

EMERGENCY RADIO SYSTEM (BDA) NOTES:

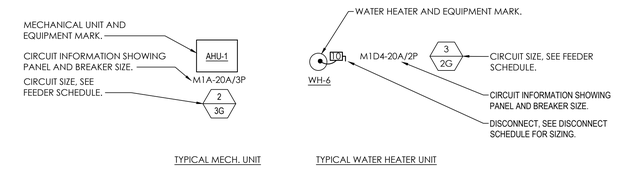
CONTRACTOR SHALL PERFORM AN ONSITE SURVEY OUTSIDE OF THE ALLOWANCE ONCE THE NEW BUILDING DRIED IN AND ROUGHLY 80% COMPLETE WITH CONSTRUCTION. TESTING SHOULD BE CONDUCTED PRIOR TO THE START OF THE FINISHES BEING INSTALLED: SPECIFICALLY, THE CEILING.

PROVIDE ALLOWANCE OF $75,000 FOR THIS SYSTEM IN THE EVENT THE BUILDING DOES NOT MEET CURRENT CODES.

PROVIDE A TWO-WAY EMERGENCY RADIO COMMUNICATIONS ENHANCEMENT SYSTEM UTILIZING A BI-DIRECTIONAL AMPLIFIER SOLUTION AS REQUIRED BY THE AHJ. THE BDA SOLUTION MUST MEET ALL OF THE REQUIREMENTS OF NFPA, IFC AND IBC WHICH INCLUDE REQUIREMENTS FOR THE INSTALLATION, PERFORMANCE AND STRENGTH OF EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS (ERCES) FOR COMMERCIAL FACILITIES, MOST SPECIFICALLY THE INTERNATIONAL FIRE CODE (IFC-SECTION 510), NFPA 1221 (2016 EDITION) AND IBC 201 (SECTION 916).

THE INSTALLATION COMPANY OF THE BDA SOLUTION SHALL MAINTAIN A FCC LICENSE OR BE FACTORY TRAINED BY THE BDA SOLUTION MANUFACTURER. PROOF OF LICENSE SHALL BE PROVIDED ALONG WITH BDA SOLUTION (SPECIFICATION SHEETS, ETC.) AND BUILDING SPECIFIC BDA SOLUTION DESIGN. IN THE FIRE ALARM SUBMITTAL PACKAGE TO THE FIRE ALARM ENGINEER ON RECORD FOR REVIEW AND APPROVAL.

THE BDA SOLUTION MUST BE SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM AND REPORT SIGNALS VIA THE FIRE ALARM SYSTEM TO THE FIRE ALARM CENTRAL STATION MONITORING COMPANY IF A TROUBLE WITH THE BDA SOLUTION EXISTS. CERTIFICATION OF COMPLETION AND TESTING (INCLUDING TEST RESULTS) OF BDA SOLUTION SHALL BE PROVIDED IN CONJUNCTION WITH THE FIRE ALARM COMPLETION CERTIFICATION.

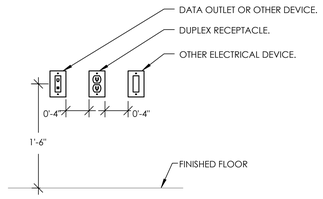


4 E0.6 TYPICAL MECHANICAL EQUIPMENT ELECTRICAL DETAIL

NOT TO SCALE

NOTES:

1. THIS DETAIL IS TYPICAL FOR ALL MECHANICAL/PLUMBING EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR HANDLERS, MINI SPLITS, ROOF TOP UNITS, WATER HEATERS, ETC.
2. IF NO DISCONNECT IS SHOWN, UNIT IS FURNISHED WITH INTEGRAL DISCONNECT FROM MANUFACTURER OR IS IN SIGHT OF ELECTRICAL PANEL. MAKE ELECTRICAL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY UNITS HAVE INTEGRAL DISCONNECT WITH MECHANICAL CONTRACTOR.

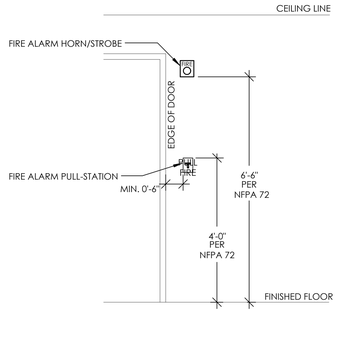


5 E0.6 TYPICAL ELECTRICAL DEVICE DETAIL

NOT TO SCALE

NOTES:

1. THIS DETAIL APPLIES WHERE EVER MULTIPLE DEVICES ARE SHOWN NEXT TO EACH OTHER ON THE SAME WALL.
2. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF DEVICES.
3. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

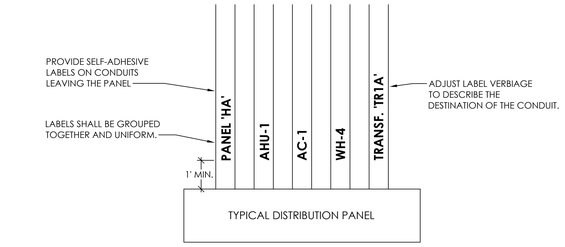


6 E0.6 TYPICAL FIRE ALARM DEVICE INSTALLATION DETAIL

NOT TO SCALE

NOTES:

1. FIRE ALARM DEVICES SHALL BE MOUNTED PER NFPA 72. THE PULL STATION HANDLE SHALL BE MOUNTED BETWEEN 42" AND 48" ABOVE THE FINISH FLOOR. THE STROBE SHALL BE MOUNTED BETWEEN 80" AND 96" ABOVE THE FINISH FLOOR.
2. IF FIRE ALARM DEVICES ARE SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
3. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

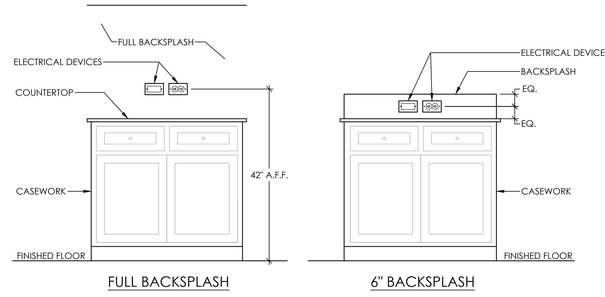


7 E0.6 TYPICAL CONDUIT LABELING DETAIL

NOT TO SCALE

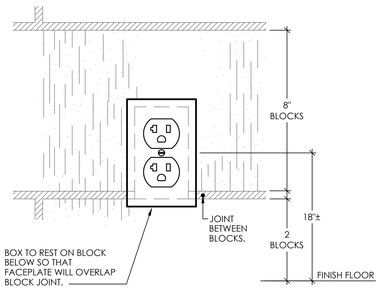
NOTES:

1. THIS APPLIES TO ALL BRANCH FEEDER CONDUITS FEEDING MECHANICAL EQUIPMENT, OTHER MAJOR ELECTRICAL EQUIPMENT AND PANELS. 20A/1P BRANCH CIRCUITS DO NOT HAVE TO BE LABELED. ANY CONDUIT 1" AND LARGER MUST BE LABELED LEAVING ALL PANELS.
2. ALL LABELS MUST BE PRE-PRINTED LABELS OF THE SAME SIZE AND TEXT.



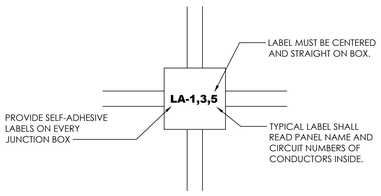
8 E0.6 TYPICAL ELECTRICAL DEVICE INSTALLATION IN BACKSPLASH DETAIL

NOT TO SCALE



9 E0.6 RECEPTACLE DETAIL for BLOCK INSTALLATION

NOT TO SCALE



10 E0.6 TYPICAL JUNCTION BOX LABELING DETAIL

NOT TO SCALE

NOTES:

1. ALL COVERS FOR FIRE ALARM MUST BE FACTORY APPLIED RED.
2. ALL LABELS MUST BE PRE-PAINTED LABELS OF THE SAME SIZE AND TECT. NO HAND WRITING WILL BE ACCEPTED.
3. JUNCTION BOXES WITH CEILING PAINT ON THEM WILL NOT BE ACCEPTED.

LATHAN ▪ McKEE ARCHITECTS

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FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ELECTRICAL DETAILS

ALABAMA REGISTERED No. 33579 PROFESSIONAL 1/14/26 ENGINEER DONALD MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.6

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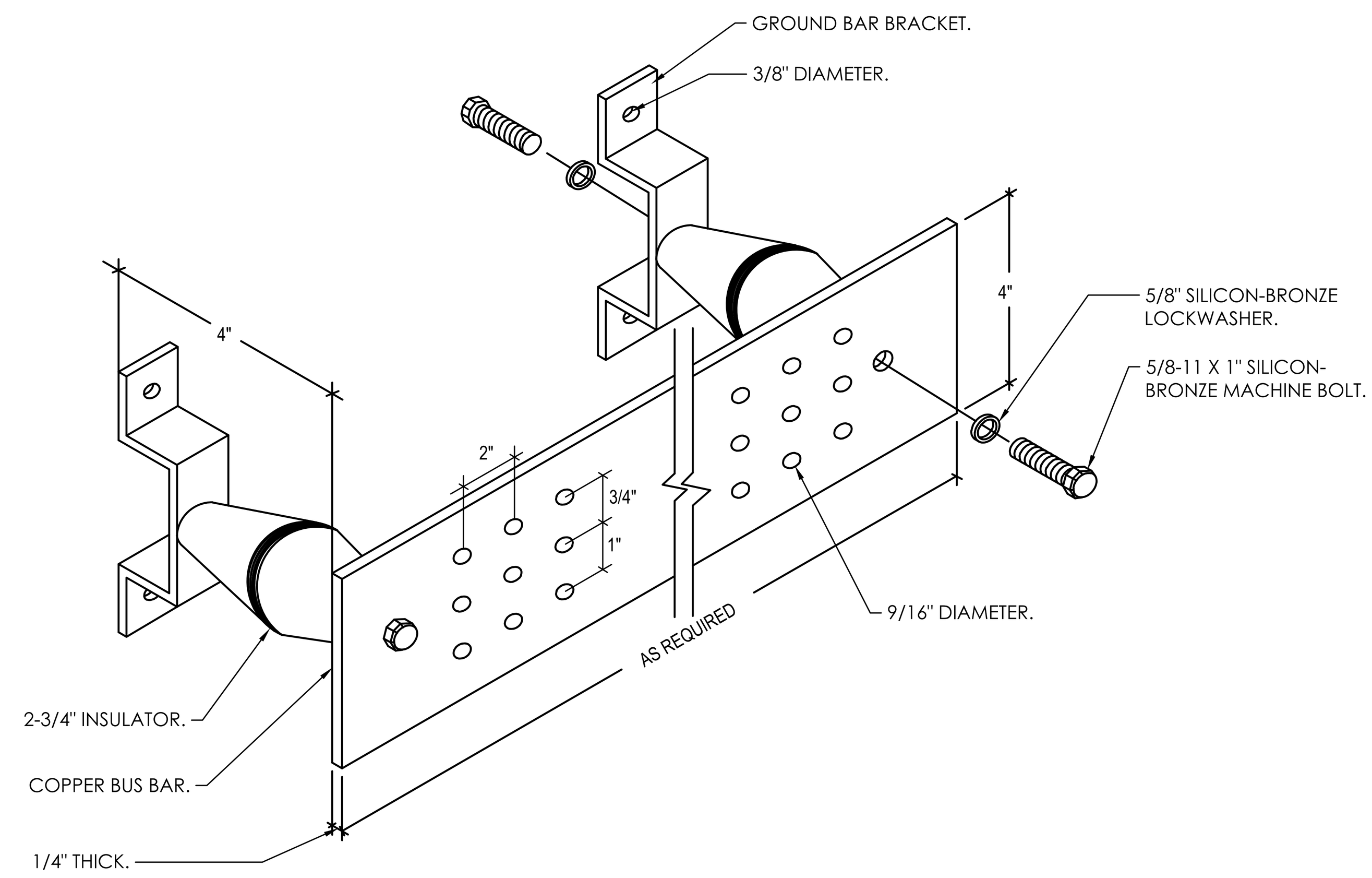


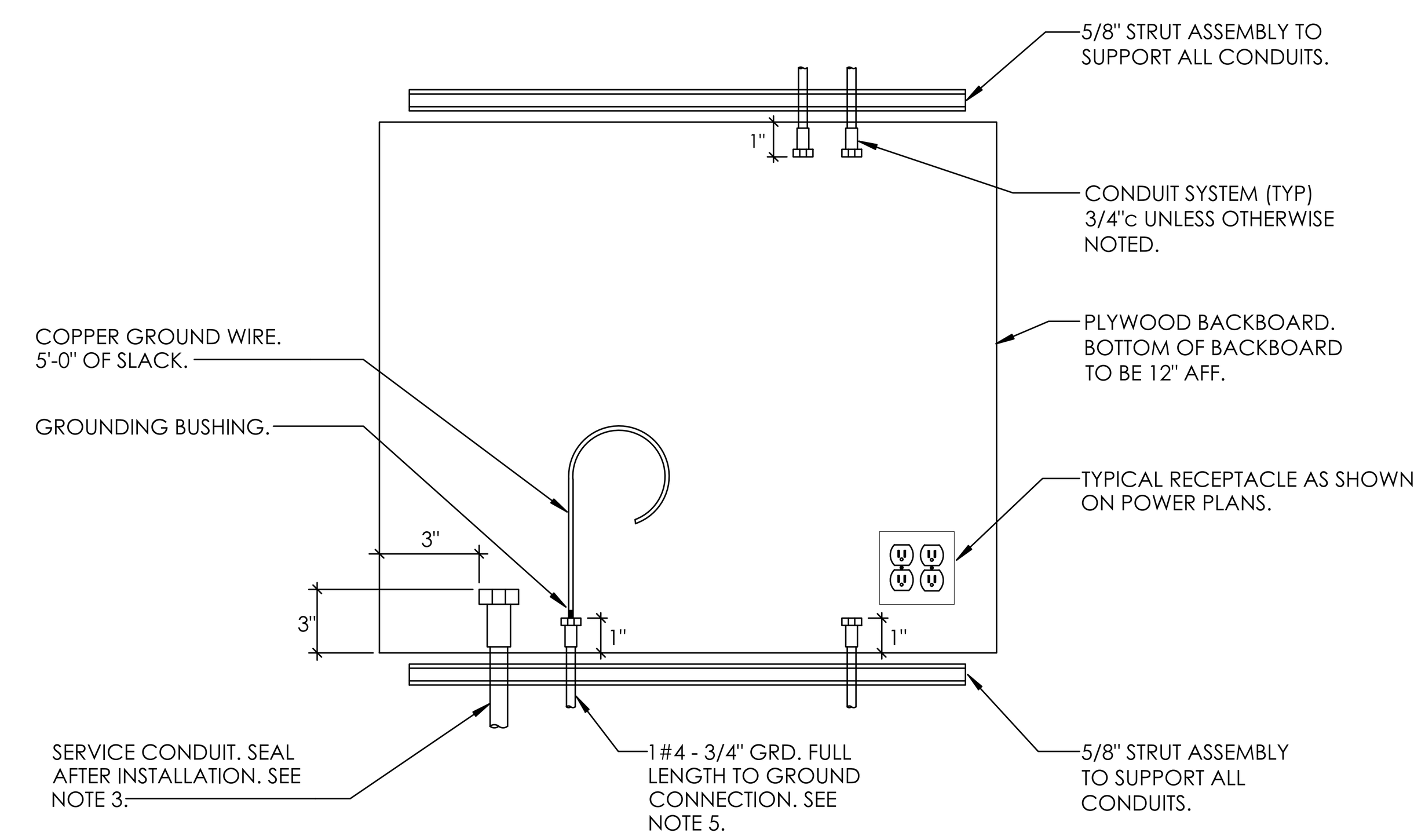
1 E0.7

TYPICAL GROUND BUS DETAIL

NOT TO SCALE:

NOTES:

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC AND UL STANDARDS.
2. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. ALL GROUND ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITH A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THRU THE BUSHING LUG PRIOR TO TERMINATION.
4. LENGTH OF BUS SHALL BE AS REQUIRED BY THE NUMBER OF CONDUCTOR CONNECTIONS PLUS 25% SPARE CAPACITY SPACE OR AS SPECIFIED OTHERWISE.
5. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 3-2/4" INSULATOR SUPPORT OR AS REQUIRED. BUS BARS OVER 6" WIDE REQUIRE INSULATORS AT ALL 4 CORNERS OR AS REQUIRED.



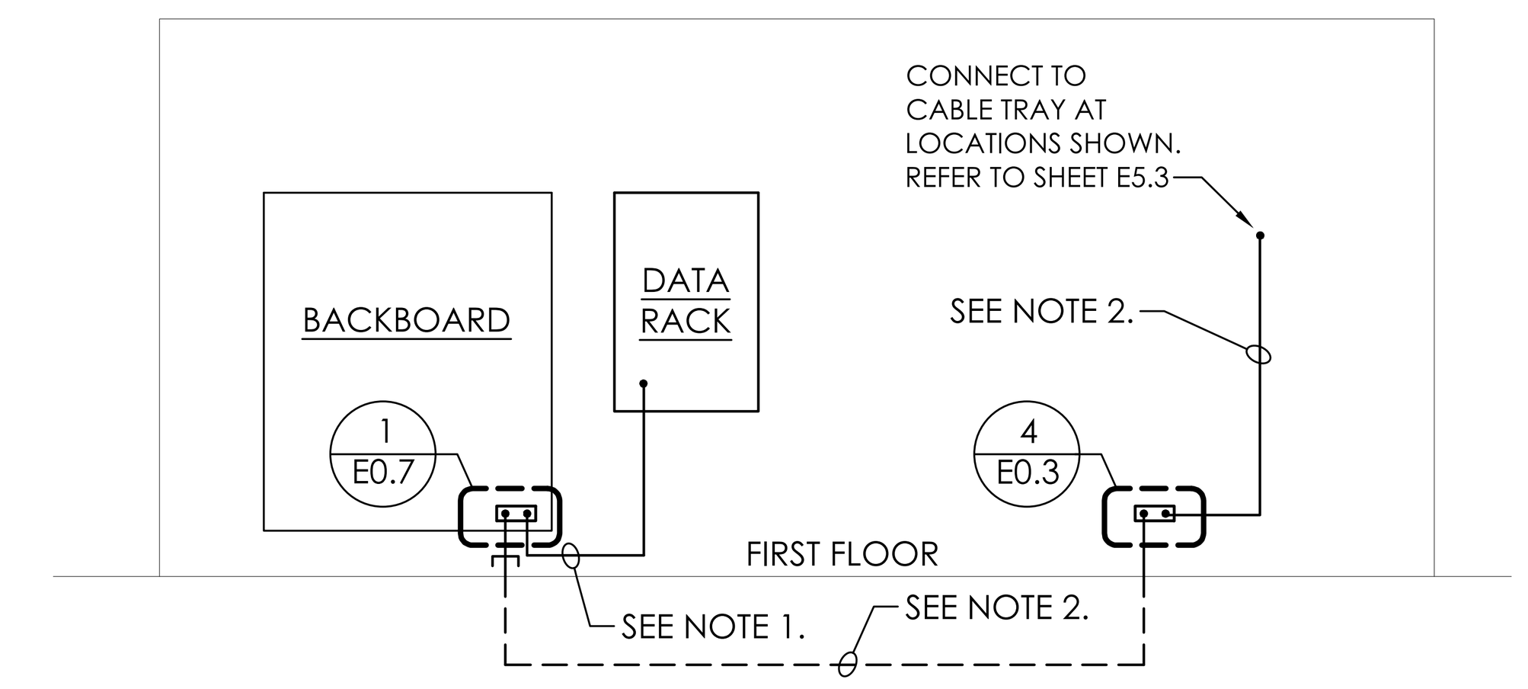
2 E0.7

AUXILIARY SYSTEM BACKBOARD PROVISIONS DETAIL

NOT TO SCALE

NOTES:

1. ALL EMPTY CONDUITS SHALL BE FURNISHED WITH PULL WIRE.
2. ALL CONDUIT ENDS TO CONTAIN A PLASTIC BUSHING (CONNECTOR AND BUSHING ASSEMBLY WHEN REQUIRED).
3. ALL CONDUITS FROM EXTERIOR OR BELOW GRADE SHALL BE SEALED AFTER CABLE INSTALLATION. COMPOUNDS FOR SEALING DUCTS AND CONDUIT SHALL HAVE A PUTTY-LIKE CONSISTENCY WORKABLE WITH THE HANDS AT TEMPERATURES AS LOW AS 35 DEGREES F, SHALL NOT SLUMP AT A TEMPERATURE OF 300 DEGREES F, AND SHALL NOT HARDEN MATERIALLY WHEN EXPOSED TO THE AIR.
4. PLYWOOD SHALL BE 3/4" EXTERIOR RATED AND CUT TO SIZE AS INDICATED. PAINT WITH 2 COATS OF FIRE-RETARDANT PAINT.
5. THE GROUND CONNECTION SHALL BE MADE TO THE BUILDING GROUND SYSTEM TO ESTABLISH EQUAL POTENTIAL WITH THE GROUND ELECTRODE SYSTEM.



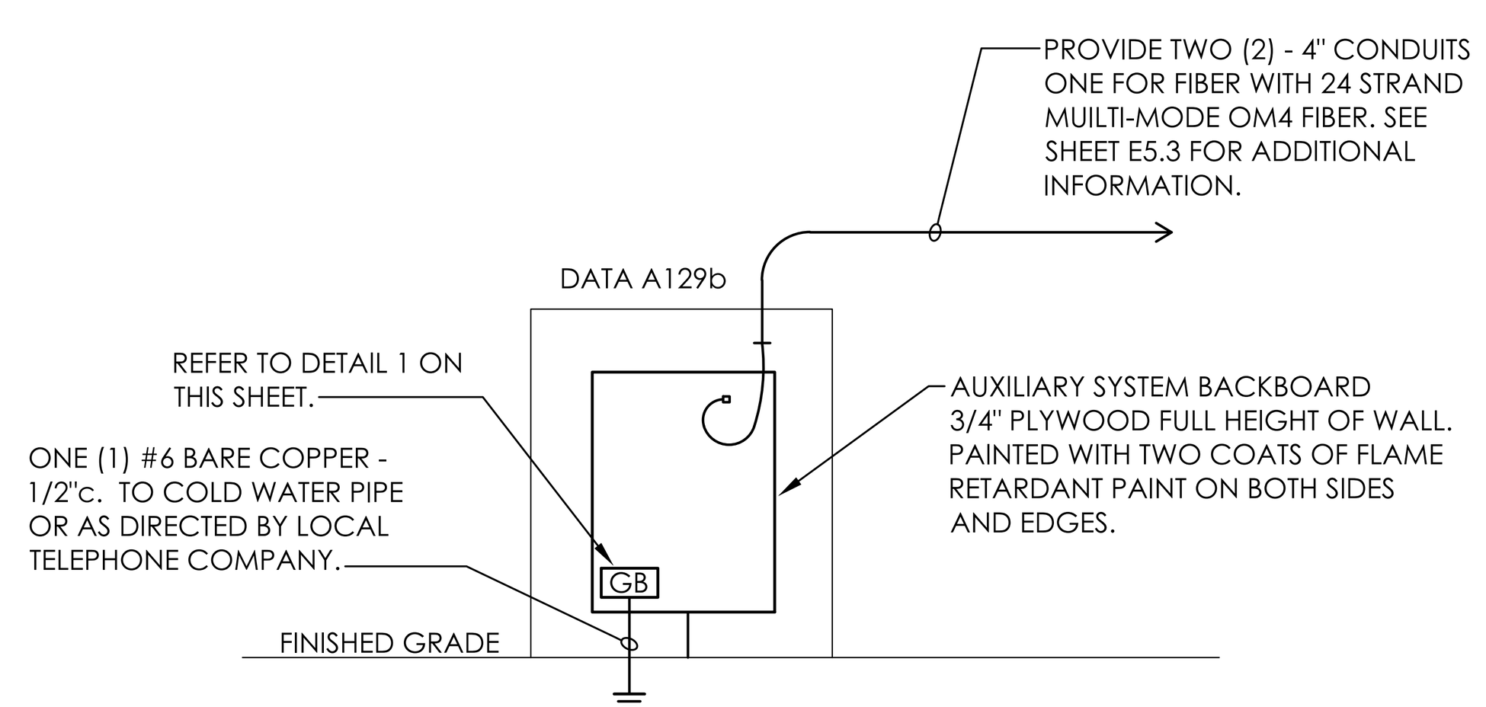
3 E0.7

GROUNDING SYSTEM RISER DIAGRAM

NOT TO SCALE

NOTES:

1. #4 COPPER GROUND IN 1"c.
2. #6 COPPER GROUND IN 1"c.



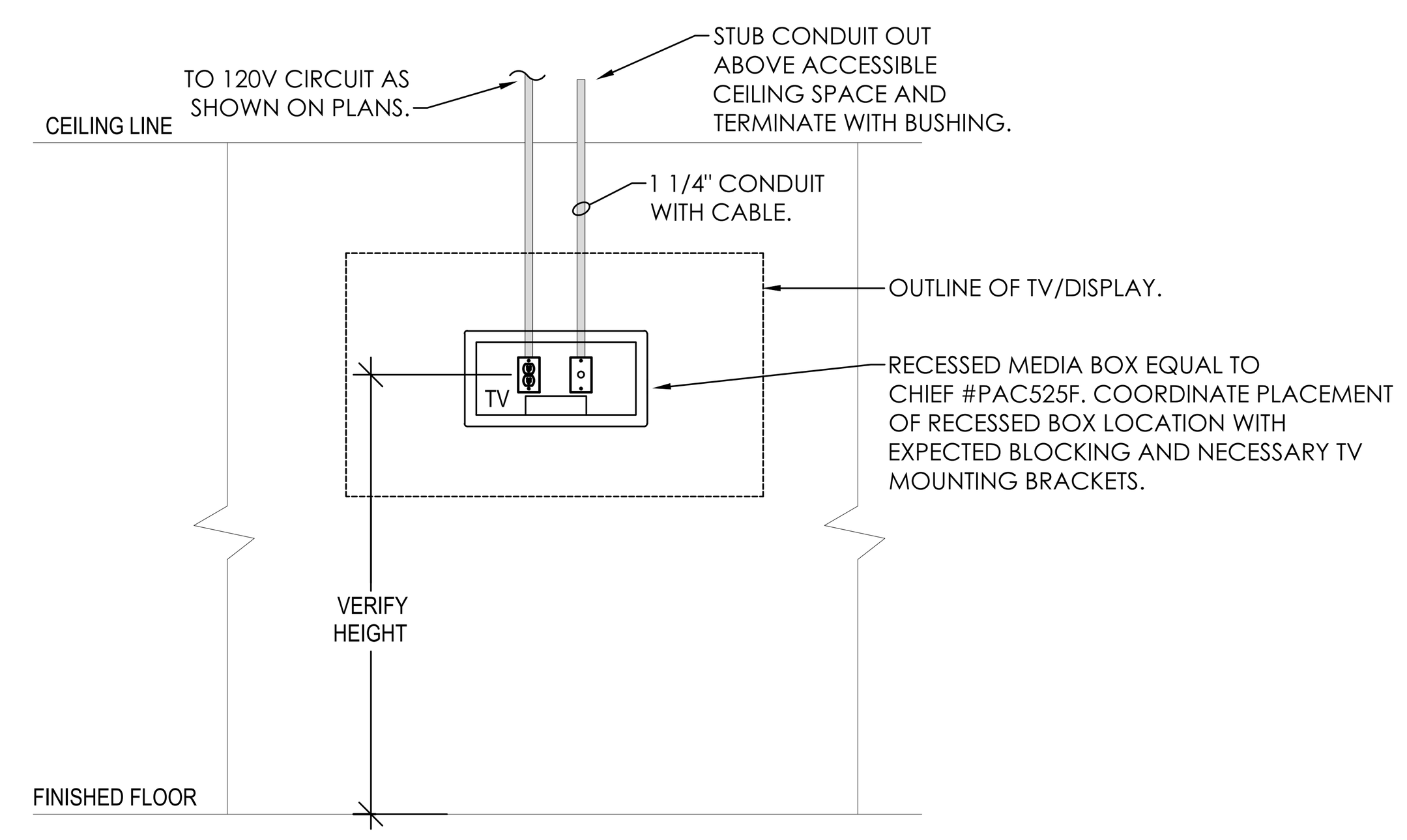
4 E0.7

TYPICAL AUXILIARY SYSTEM RISER DIAGRAM

NOT TO SCALE

NOTES:

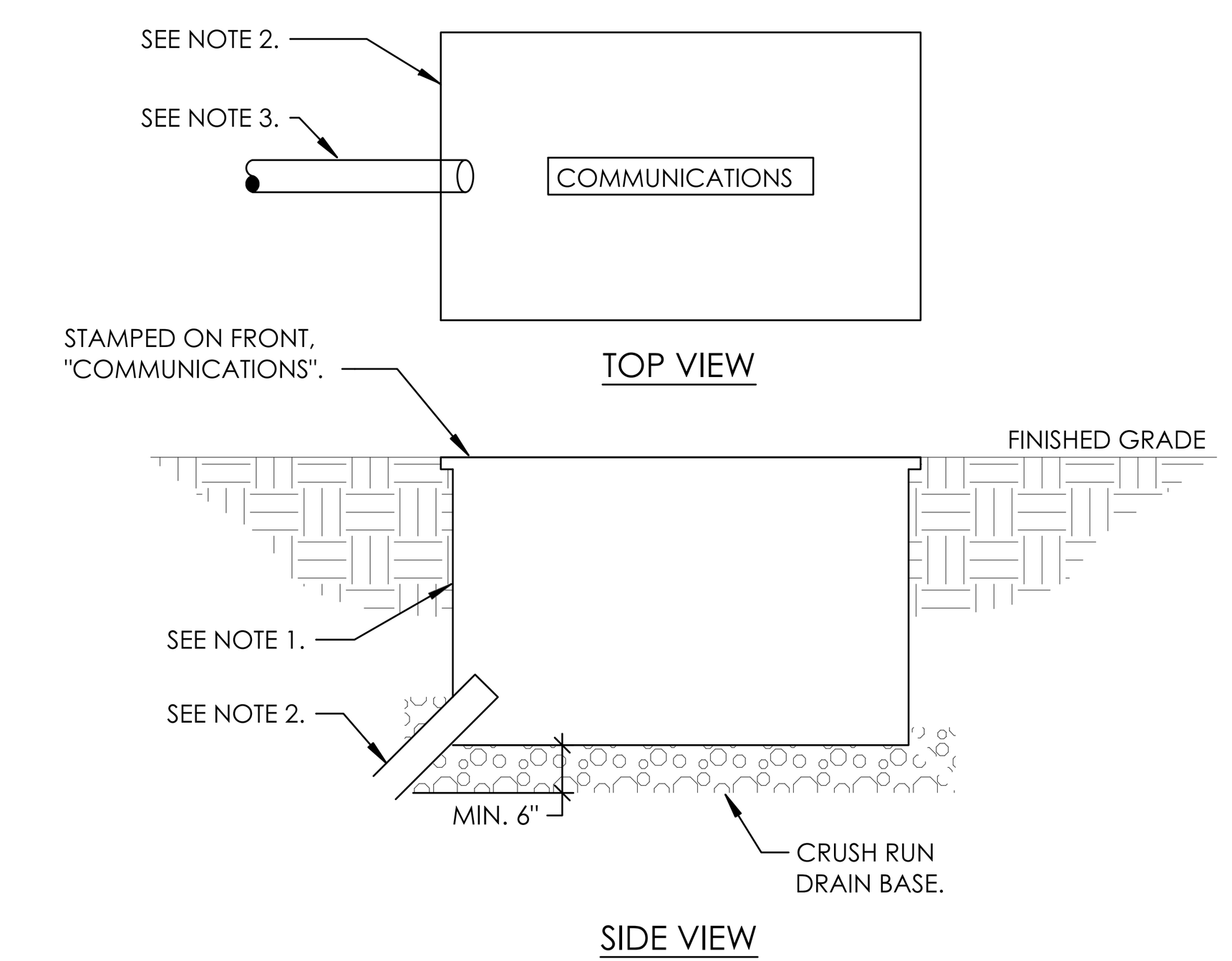
1. COORDINATE EXACT ROUTING OF SERVICE WITH OWNER I.T. PERSONNEL PRIOR TO ANY WORK.
2. PREFER TO DETAIL 1 ON SHEET E0.8 FOR ADDITIONAL INFORMATION.



6 E0.7

TYPICAL TV / INTERACTIVE BOARD OUTLET DETAIL

NOT TO SCALE



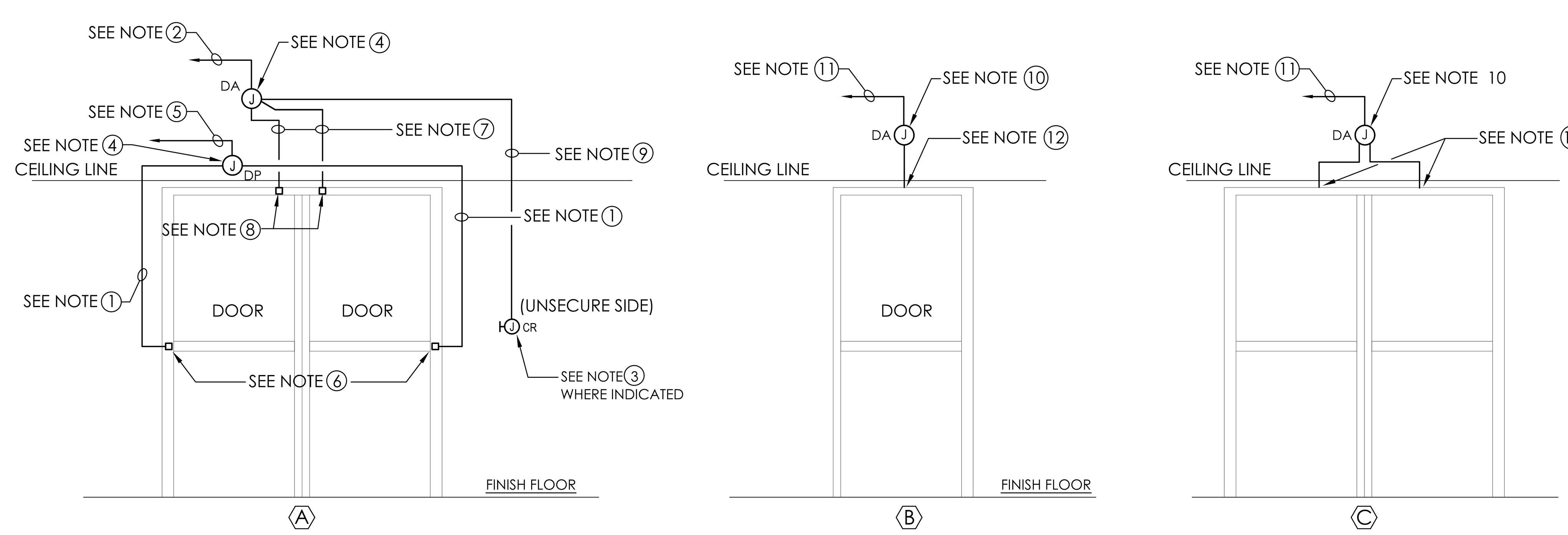
7 E0.7

IN-GRADE QUAZITE COMMUNICATION JUNCTION BOX

NOT TO SCALE

NOTES:

1. QUAZITE POLYMER CONCRETE, 3' x 5' TIER 5 RATED, IN-GRADE PULL BOX WITH CRUSH AND RUN DRAIN BASE.
2. TYPICAL CONDUIT, 45 DEGREE ANGLE INTO BASE OF THE BOX WITH THE END OF THE CONDUIT 6" ABOVE THE GRAVEL BASE.



7 E0.7

ACCESS DOOR SYSTEM CONDUIT DETAIL

NOT TO SCALE

DOOR HARDWARE NOTES:

1. RACEWAYS, BACK BOXES AND JUNCTION BOXES SHALL BE CONCEALED IN WALLS OR CEILING.
2. DOOR DETAILS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EQUIPMENT LOCATIONS. FLOOR PLANS INDICATE LOCATIONS OF EQUIPMENT AND COMPONENTS. COORDINATION WITH THE WORK OF OTHER TRADES SHALL BE MADE PRIOR TO INITIAL INSTALLATION.
3. PROVIDE PULL STRING IN EMPTY RACEWAY.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL POWER REQUIREMENTS, CONDUITS, JUNCTION BOXES AND PULL STRINGS.

DOOR/SECURITY/ACCESS KEY NOTES

1. 3/4" CONDUIT WITH POWER CABLE FROM JUNCTION BOX DOWN TO DOOR POWER TRANSFER DEVICE BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION AND DOOR REQUIREMENTS WITH G.C. AND SECURITY CONTRACTOR. POWER TRANSFER DEVICE BY OTHERS.
2. PROVIDE 3/4" CONDUIT AND CABLING TO SECURITY PANEL AS DIRECTED BY OWNER. VERIFY PRIOR TO ROUGH-IN.
3. JUNCTION BOX WITH 3/4"E.C. UP TO JUNCTION BOX FOR CARD READER FLUSH MOUNTED 48" A.F.F. ON SINGLE GANG BOX. ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT WITH OWNER / ARCHITECT.
4. 4 SQUARE JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING OR ABOVE DOOR BY ELECTRICAL CONTRACTOR.
5. 120V POWER AS REQUIRED.
6. CONNECTION TO DOOR POWER TRANSFER DEVICE AS REQUIRED.
7. 3/4" CONDUIT FROM JUNCTION BOX DOWN TO DOOR CONTACT BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION AND DOOR REQUIREMENTS WITH G.C. AND SECURITY CONTRACTOR. CONTACT DEVICE BY OTHERS.
8. CONNECTION TO DOOR CONTACT AS REQUIRED.
9. 3/4" CONDUIT FROM JUNCTION BOX UP TO DOOR ACCESS JUNCTION BOX BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION AND DOOR REQUIREMENTS WITH G.C.
10. 4 SQUARE JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING OR ABOVE DOOR BY ELECTRICAL CONTRACTOR FOR FUTURE CONTROLS.
11. PROVIDE 3/4" EMPTY CONDUIT WITH PULLSTRING TO SECURITY PANEL AS DIRECTED BY OWNER. VERIFY PRIOR TO ROUGH-IN.
12. STUB 3/4" CONDUIT INTO DOOR JAMB FOR FUTURE USE. COORDINATE EXACT LOCATION WITH DOOR SUPPLIER.
13. STUB 3/4" CONDUIT INTO ROLL-UP DOOR JAMB FOR FUTURE USE. COORDINATE EXACT LOCATION.

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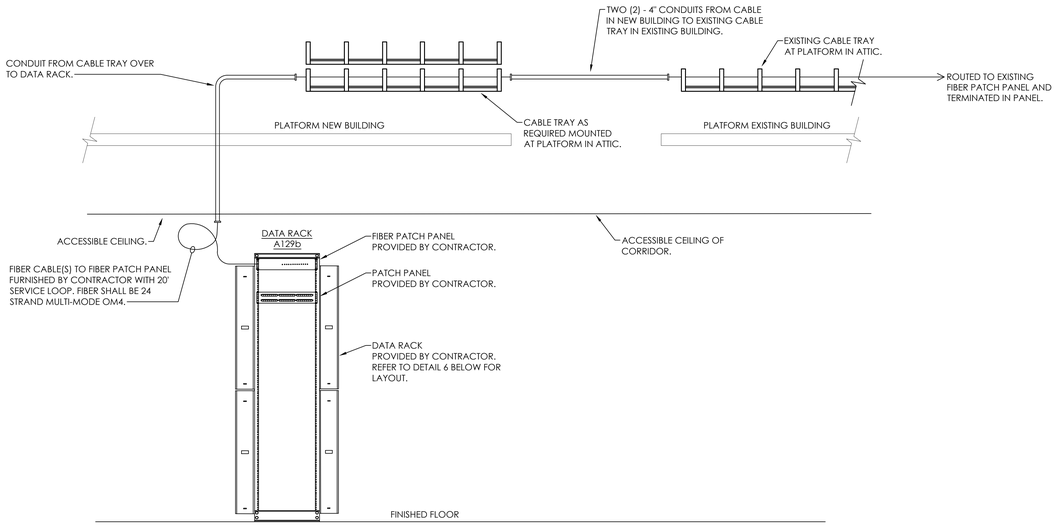


1 E0.8 NOT TO SCALE

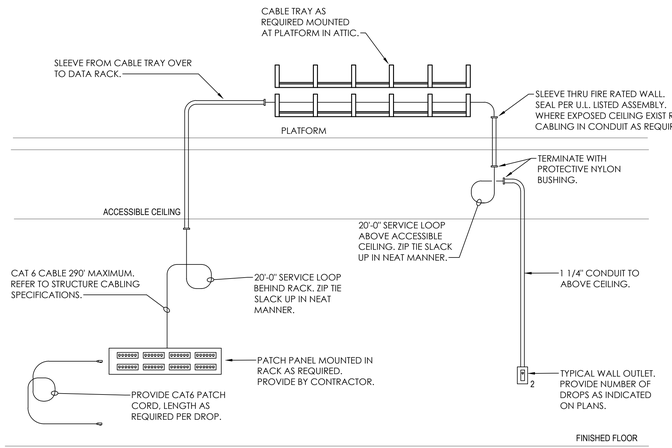
COMMUNICATIONS RACK RISER

DATA CABLING & KEYSTONE COLOR CODE REQUIREMENTS	
DATA CABLING	BLUE
WIRE ACCESS CABLING	GREEN
CAMERA CABLING	YELLOW
DOOR SECURITY CABLING	RED
INTERCOM CABLING	WHITE
FIBER CABLING (OM4)	ORANGE

AUXILIARY SYSTEM RESPONSIBILITY MATRIX

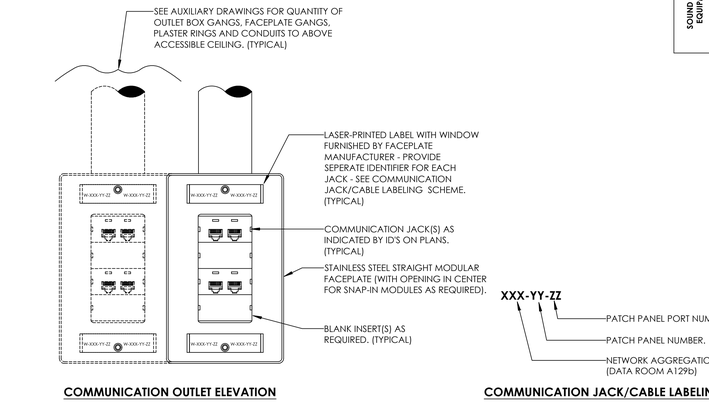
MATRIX IS A GUIDELINE FOR SYSTEMS RESPONSIBILITES. COORDINATE WITH OWNER AND ALL TRADES WHEN DEVELOPING SHOP DRAWINGS.

		ELECTRICAL CONTRACTOR				OWNER			GENERAL CONTRACTOR			
		FURNISH PER SPECS	INSTALL AS SHOWN ON PLANS	PRICING COVER VIA ALLOWANCE SEE ARCHITECTURAL SPECIFICATIONS	-	FURNISH EQUIPMENT PER OWNER'S SPECIFICATIONS	INSTALL RESPONSIBILITIES COORDINATED BY OWNER	SEE ARCHITECTURAL SPECIFICATIONS FOR ALLOWANCES	FURNISH PER SPECS	INSTALL AS SHOWN ON PLANS	,	,
STRUCTURED CABLING	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X									
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X									
	TEST AND CERTIFY CABLING SYSTEM	X	X									
	TELEPHONE BACKBOARDS AND GROUDNING BUS BARS	X	X									
	DATA RACKS AND PATCH PANELS AS SPECIFIED	X	X									
	WIRELESS ACCESS POINTS					X	X					
	PATCH CABLES					X	X					
	DATA/NETWORK SWITCHES AND POE SWITCHES					X	X					
	FIBER CABLING AND CONNECTIONS (24 STRAND MULTI-MODE OM4)	X	X									
SECURITY SYSTEMS	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X									
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X									
	TEST AND CERTIFY CABLING SYSTEM	X	X									
	ACCESS CONTROL EQUIPMENT					X	X					
	ELECTRIFIED DOOR HARDWARE								X			
	CCTV CAMERA EQUIPMENT, INCLUDING CAMERAS, DVRS AND SCREENS					X	X					
AUDIO VISUAL EQUIPMENT	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X									
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X									
	TEST AND CERTIFY CABLING SYSTEM	X	X									
	POWER FOR EQUIPMENT	X	X									
	AUDIO VISUAL EQUIPMENT INCLUDING BUT NOT LIMITED TO TVS, SPEAKERS, MOUNTS, ETC	X	X			X	X					
	AUDIO VISUAL EQUIPMENT RACKS											
	-											
	-											
INTERCOM EQUIPMENT	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X									
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X									
	TEST AND CERTIFY CABLING SYSTEM	X	X									
	POWER FOR EQUIPMENT	X	X									
	INTERCOM EQUIPMENT INCLUDING BUT NOT LIMITED TO TVS, SPEAKERS, MOUNTS, ETC	X	X	X		X	X					
	INTERCOM EQUIPMENT RACKS					X	X					
	-											
	-											
SOUND SYSTEM EQUIPMENT	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X									
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X									
	TEST AND CERTIFY CABLING SYSTEM	X	X									
	POWER FOR EQUIPMENT	X	X									
	SOUND SYSTEM EQUIPMENT INCLUDING BUT NOT LIMITED TO, SPEAKERS, MOUNTS, ETC	X	X									
	SOUND SYSTEM EQUIPMENT RACKS	X	X									
	-											
	-											



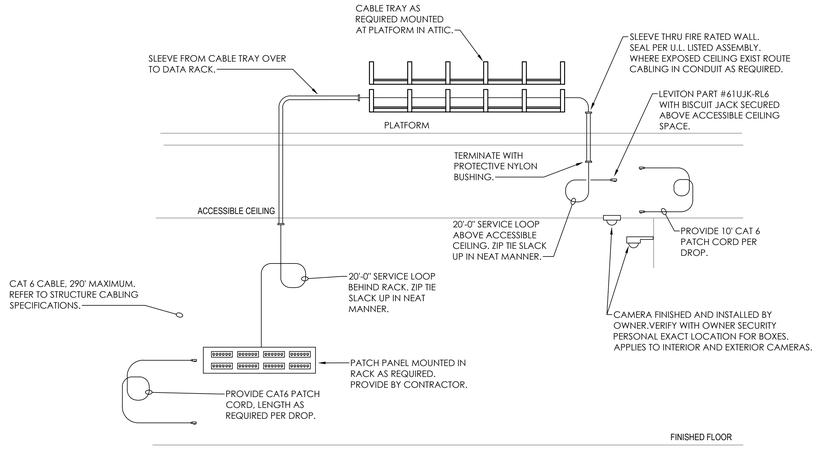
2 E0.8 NOT TO SCALE

STRUCTURE CABLE RISER DIAGRAM



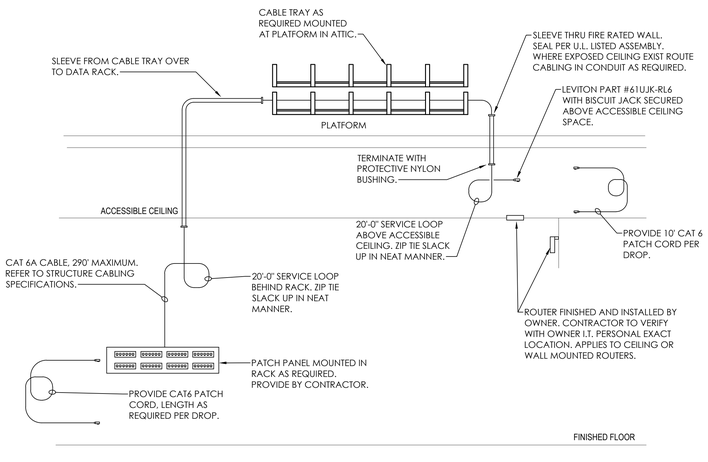
3 E0.8 NOT TO SCALE

TYPICAL DATA OUTLET LABELING DIAGRAM



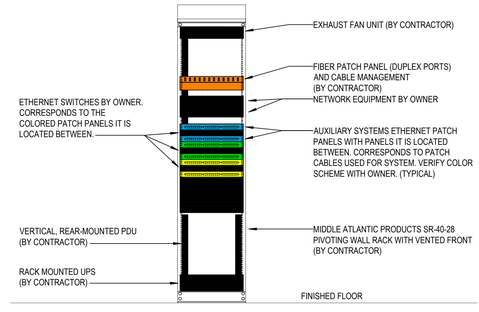
4 E0.8 NOT TO SCALE

TYPICAL CCTV CAMERA RISER



5 E0.8 NOT TO SCALE

TYPICAL WIRELESS ACCESS POINT RISER



6 E0.8 NOT TO SCALE

TYPICAL DATA RACK LAYOUT DETAIL

SHEET MUST BE PRINTED IN COLOR

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ELECTRICAL DETAILS

ALABAMA No. 35579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.8

GARNER & ASSOCIATES ENGINEERING
901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 25-091

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: Addition to Andalusia Elementary School
Project Type: New Construction

Construction Site:
Andalusia, AL

Owner/Agent:
Andalusia City Board of Education
Andalusia, AL

Designer/Contractor:
Richard Holt
Garner and Associates Engineering PC
901 South Perry Street
Montgomery, AL

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-School (School/University)	38068	0.87	33119
		Total Allowed Watts =	33119

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-School (School/University)				
LED 1: A: LED 2 x 4 Flatpanel: Other:	1	232	54	12528
LED 2: C: LED Downlight: Other:	1	45	13	585
LED 3: D: LED 24" Bowl: Other:	1	7	30	210
LED 4: E: LED 4' Strip: Other:	1	21	48	1008
LED 5: F: LED High Bay: Other:	1	36	158	5688
LED 6: G: LED 4' x 3" Recessed: Other:	1	18	30	540
LED 7: H: LED 2 x 2 Flatpanel: Other:	1	10	27	270
LED 8: K: LED 36" Round Pendant: Other:	1	6	120	720
LED 9: L: LED 36" Round Pendant: Other:	1	7	146	1022
LED 10: N: LED 24" Round Pendant: Other:	1	6	45	270
			Total Proposed Watts =	22841

Interior Lighting PASSES: Design 31% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Richard Holt - Electrical Designer — Name - Title
Richard Holt — Signature
12/17/2025 — Date

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: Addition to Andalusia Elementary School
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:
Andalusia, AL

Owner/Agent:
Andalusia City Board of Education
Andalusia, AL

Designer/Contractor:
Richard Holt
Garner and Associates Engineering PC
901 South Perry Street
Montgomery, AL

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
North Main Entrance (Main entry)	6 ft of door	20	Yes	120
West Entrance Corridor (Other door (not main entry))	6 ft of door	20	Yes	120
West Entrance Connector (Other door (not main entry))	6 ft of door	20	Yes	120
West Entrance Gym (Other door (not main entry))	6 ft of door	20	Yes	120
West Entrance Multi-Purpose (Other door (not main entry))	6 ft of door	20	Yes	120
South Entrance Multi-Purpose (Other door (not main entry))	6 ft of door	20	Yes	120
East Entrance Connector (Other door (not main entry))	6 ft of door	20	Yes	120
East Entrance Gym (Other door (not main entry))	6 ft of door	20	Yes	120
East Entrance Gym (Other door (not main entry))	6 ft of door	20	Yes	120
North Entrance Gym Corridor (Other door (not main entry))	6 ft of door	20	Yes	120
North Wall (Illuminated length of facade wall or surface)	366 ft	2.5	No	915
West Wall (Illuminated length of facade wall or surface)	135 ft	2.5	No	338
South Wall (Illuminated length of facade wall or surface)	203 ft	2.5	No	508
East Wall Gym (Illuminated length of facade wall or surface)	88 ft	2.5	No	220
East Wall Classroom (Illuminated length of facade wall or surface)	60 ft	2.5	No	150
			Total Tradable Watts (a) =	1200
			Total Allowed Watts =	3330
			Total Allowed Supplemental Watts (b) =	600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
North Main Entrance (Main entry 6 ft of door width): Tradable Wattage				
LED 1: Other:	1	4	13	52
West Entrance Corridor (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 2: Other:	1	1	13	13

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
West Entrance Connector (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 3: Other:	1	1	38	38
West Entrance Gym (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 4: Other:	1	1	38	38
West Entrance Multi-Purpose (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 5: Other:	1	1	38	38
South Entrance Multi-Purpose (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 6: Other:	1	1	38	38
East Entrance Connector (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 7: Other:	1	1	38	38
East Entrance Gym (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 8: Other:	1	1	38	38
LED 9: Other:	1	1	38	38
North Entrance Gym Corridor (Other door (not main entry) 6 ft of door width): Tradable Wattage				
LED 10: Other:	1	2	13	26
North Wall (Illuminated length of facade wall or surface 366 ft): Non-tradable Wattage				
LED 11: Other:	1	8	38	304
West Wall (Illuminated length of facade wall or surface 135 ft): Non-tradable Wattage				
LED 12: Other:	1	4	38	152
South Wall (Illuminated length of facade wall or surface 203 ft): Non-tradable Wattage				
LED 13: Other:	1	3	38	114
East Wall Gym (Illuminated length of facade wall or surface 88 ft): Non-tradable Wattage				
LED 16: Other:	1	2	38	76
East Wall Classroom (Illuminated length of facade wall or surface 60 ft): Non-tradable Wattage				
LED 17: Other:	1	1	38	38
			Total Tradable Proposed Watts =	357

Exterior Lighting PASSES: Design 80% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Richard Holt - Electrical Designer — Name - Title
Richard Holt — Signature
12/17/2025 — Date

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: LIGHTING COMCHECK

ALABAMA
No. 35579
PROFESSIONAL
1/14/26
ENGINEER
MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E0.9

GARNER & ASSOCIATES ENGINEERING
901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 25-091

ELECTRICAL SITE LEGEND

- UGP — NEW UNDERGROUND PRIMARY. PROVIDE THREE (3) - 3" RED ROLL DUCT SPR 13.5 CONDUIT 15 KVA, 4/0 EPR WITH CONCENTRIC NEUTRAL PER CONDUIT. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- UGS — NEW UNDERGROUND SECONDARY, 277/480V, 3PH, 4W FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- TX — NEW 3PHS PADMOUNTED TRANSFORMER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTACT TODD RILEY WITH UNITED SUPPLY, PHONE 334-714-2077. REFER TO RISER DIAGRAM AND DETAIL 4 ON SHEET E1.3 FOR ADDITIONAL INFORMATION
- NEW ELECTRICAL PRIMARY PULLBOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SIZE AS PER UTILITY REQUIREMENTS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION
- PTC-X — NEW ELECTRICAL PRIMARY SECTIONALIZER CABINET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION
- EUPR — EXISTING UNDERGROUND PRIMARY TO BE REMOVED BY ELECTRICAL CONTRACTOR
- EUP — EXISTING UNDERGROUND PRIMARY TO REMAIN
- EUS — EXISTING UNDERGROUND SECONDARY TO REMAIN
- EUB — EXISTING UNDERGROUND BRANCH CIRCUIT TO REMAIN NEW UNDERGROUND FIBER
- UF — NEW UNDERGROUND FIBER BY OTHERS. PROVIDE TWO (2) - 4" CONDUITS. REFER TO DETAILS 3 & 6 ON SHEET E1.3
- EUF — EXISTING UNDERGROUND FIBER TO REMAIN
- EUFR — EXISTING UNDERGROUND FIBER TO BE REMOVED BY OTHERS
- FB — FIBER OPTIC QUAZITE PULLBOX BY ELECTRICAL CONTRACTOR. REFER TO DETAIL 6 ON SHEET E1.3
- ERL — INDICATES EXISTING POST TOP LIGHT TO BE RELOCATED BY ELECTRICAL CONTRACTOR. SEE SHEET E1.2
- R — INDICATES EXISTING LIGHTING CIRCUIT TO BE REMOVED BY ELECTRICAL CONTRACTOR

NOTE:

ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR DISCONNECT AND REMOVAL OF EXISTING PRIMARY SERVICE THAT IS IN CONFLICT WITH LOCATION OF NEW BUILDING AND HE WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING NEW PRIMARY AS SHOWN. COORDINATION PERSONNEL FOR THE CITY OF ANDALUSIA UTILITIES WILL BE, **Tom Arnold**, PHONE 334-504-2210 or **Kyle Hensley**, PHONE 334-504-1504.

PHASING:

ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING POWER OUTAGES WITH OWNER AND CITY OF ANDALUSIA UTILITIES PRIOR TO STARTING WORK. ELECTRICAL CONTRACTOR WILL NOTIFY OWNER TWO WEEKS PRIOR TO ANY POWER OUTAGES AND ESTIMATED TIME OF OUTAGE. **RECOMMEND ELECTRICAL CONTRACTOR COORDINATE MEETING ON SITE TO DISCUSS PHASING OF WORK WITH Tom Arnold / Kyle Hensley, ARCHITECT AND OWNER.**

FIBER:

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LOCAL FIBER PROVIDER, REMOVAL OF EXISTING UNDERGROUND FIBER ROUTING AND INSTALLATION OF NEW UNDERGROUND FIBER ROUTING. OWNER AND ARCHITECT SHALL BE NOTIFIED PRIOR TO ANY COMMUNICATIONS OUTAGES.

1 / E1.1 ELECTRICAL SITE PLAN

SCALE: 1"=30'-0"

SHEET MUST BE PRINTED IN COLOR

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901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 25-091

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

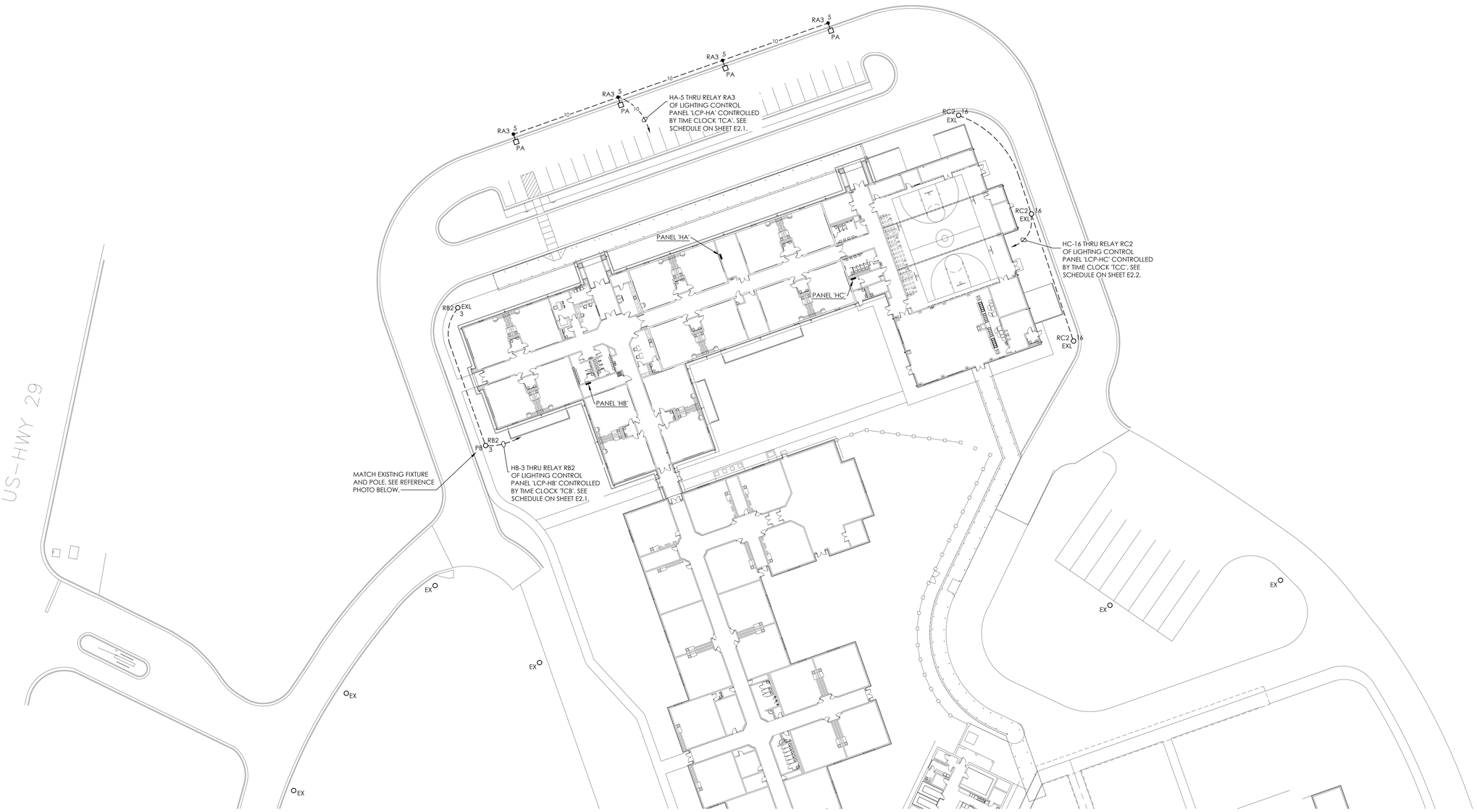
SHEET TITLE: ELECTRICAL SITE PLAN

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 33579
PROFESSIONAL
1/14/26
ENGINEER
JORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E1.1

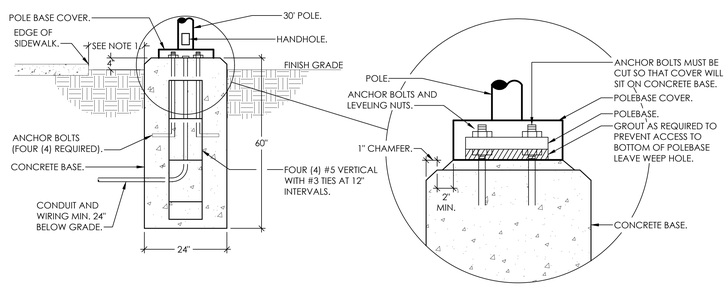


LIGHTING SITE PLAN

SCALE: 1"=30'-0"

REFERENCE PHOTO OF 'EXL'

NOT TO SCALE

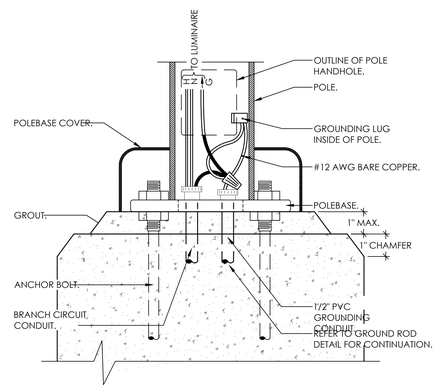


POLEBASE DETAIL FIXTURE 'PA'

NOT TO SCALE

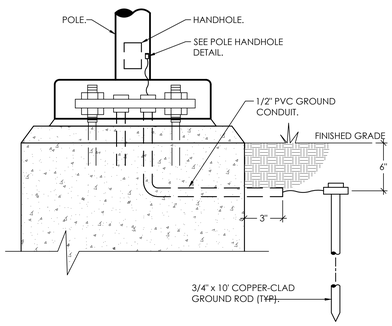
NOTE:

1. TYPICAL FOR ALL POLE LIGHTS. POLE BASES SHALL BE INSTALLED 2' FROM EDGE OF SIDEWALK UNLESS NOTED OTHERWISE. VERIFY DIMENSION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



POLE HANDHOLE DETAIL

NOT TO SCALE



GROUND ROD DETAIL

NOT TO SCALE

NOTE:

1. DETAIL TYPICAL FOR TYPE 'PA' & 'PB'

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: LIGHTING SITE PLAN

ALABAMA
No. 33579
PROFESSIONAL
1/14/26
ENGINEER
MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E1.2

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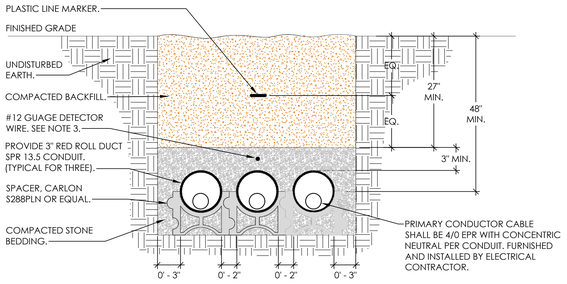
Project No: 25-091

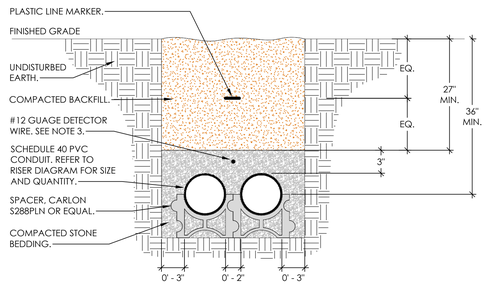


1 E1.3 PRIMARY DUCT BANK DETAIL

NOT TO SCALE

NOTES:

1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".

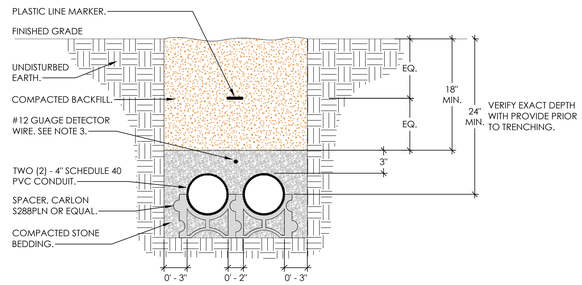


2 E1.3 TYPICAL SECONDARY DUCT BANK DETAIL

NOT TO SCALE

NOTES:

1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".

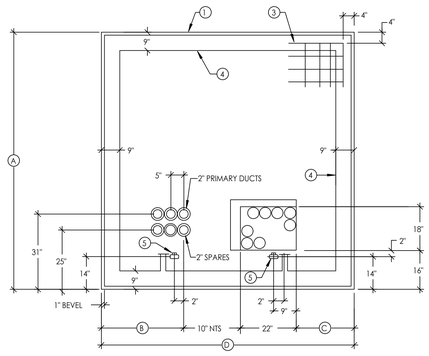


3 E1.3 TYPICAL FIBER DUCT BANK DETAIL

NOT TO SCALE

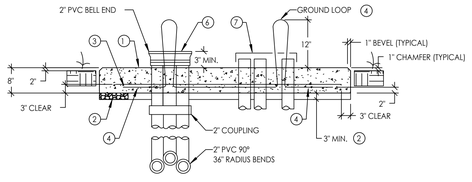
NOTES:

1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "FIBER COMMUNICATIONS".
2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".



PLAN VIEW

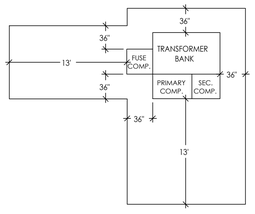
DIMENSIONS				
208 OR 480 VOLT	A	B	C	D
75-500 KVA	90"	24"	16"	72"
750-2000 KVA	144"	36"	28"	96"



SECTION VIEW

GENERAL NOTES:

1. THIS DETAIL IS TYPICAL ONLY. COORDINATE ACTUAL DIMENSIONS & REQUIREMENTS WITH THE UTILITY & ACTUAL TRANSFORMER TO BE FURNISHED.
2. SECONDARY AND METERING DUCT ENTRANCES MUST BE KEPT WITHIN THE BOUNDARY LINES SHOWN. NUMBER AND LOCATION OF SECONDARY DUCTS TO BE DETERMINED BY DIXIE ELECTRIC COOPERATIVE REPRESENTATIVE BEFORE PAD IS POURED. DIXIE ELECTRIC COOPERATIVE WILL DETERMINE CONDUIT SPACING.
3. FOR CLEARANCE TO OTHER STRUCTURES SEE MINIMUM CLEARANCE REQUIREMENTS. THERE SHALL BE NO ABOVE GROUND OBSTRUCTIONS SUCH AS FENCES, SHRUBS, PLANTS, GAS METERS, AIR CONDITIONERS, ETC. WITHIN 10 FEET OF THE FRONT OF THE TRANSFORMER OR WITHIN 3 FEET OF THE SIDES OR BACK.
4. CONTRACTOR SHALL COORDINATE WITH DIXIE ELECTRIC COOPERATIVE'S ENGINEERING DEPARTMENT FOR FURTHER REQUIREMENTS AND SPECIFICATIONS PRIOR TO CONSTRUCTION OF PAD.



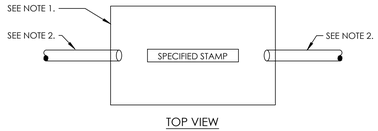
MINIMUM CLEARANCE REQUIREMENTS

KEYED NOTES: (#)

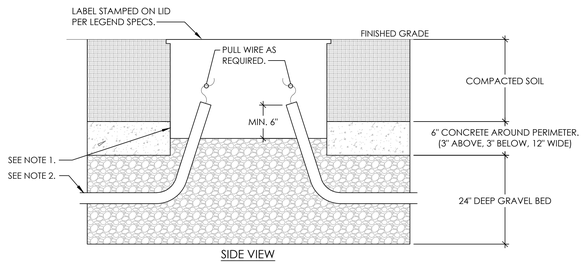
1. CONCRETE PAD. CONCRETE TO DEVELOP 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS. OMIT 1 INCH BEVEL ON ALL EDGES FLUSH WITH OTHER CONCRETE WORK. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. COMPACTED GRAVEL FILL. PAD SHOULD BE POURED AGAINST A 3 INCH MINIMUM COMPACTED GRAVEL FILL THAT IS PLACED ON WELL COMPACTED EARTH. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. #4 REBAR (GRADE 60) EQUALLY SPACE 6" EACH WAY.
4. #2/0 STRANDED BARE COPPER, CONTINUOUS GROUND BUS. TWO 3/4 INCH x 10 FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
5. 3/4" (19.05mm) x 10'-0"(3.08m) GROUND ROD. TWO 3/4 INCH x 10 FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
6. PRIMARY DUCTS - 2" PVC.
7. SECONDARY DUCTS. PROVIDE GROUNDING BUSHINGS ON EACH AND A CONTINUOUS GROUND BONDING CONDUCTOR.

4 E1.3 TYPICAL TRANSFORMER PAD INSTALLATION DETAIL

NOT TO SCALE



TOP VIEW



SIDE VIEW

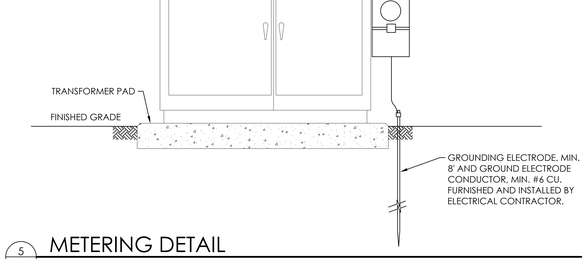
PULL BOX SCHEDULE					
NAME	SIZE	STAMP	MANUFACTURER	RATING	COMMENTS
FB	3' x 5'	'FIBER'	QUAZITE	TIER 15	PROVIDED BY E.C.

6 E1.3 IN-GRADE QUAZITE JUNCTION BOX TYPICAL

NOT TO SCALE

NOTES:

1. QUAZITE POLYMER CONCRETE, TIER 5 RATED, IN-GRADE PULL BOX WITH CRUSH AND RUN DRAIN BASE.
2. TYPICAL CONDUIT, 45 DEGREE ANGLE INTO BASE OF THE BOX WITH THE ENDS OF THE CONDUIT 6" ABOVE THE GRAVEL BASE.



5 E1.3 METERING DETAIL

NOT TO SCALE

LATHAN ▪McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: ELECTRICAL SITE DETAILS

ALABAMA No. 33579 PROFESSIONAL 1-14-26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E1.3

GARNER & ASSOCIATES ENGINEERING
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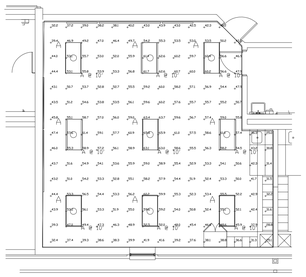
Project No: 25-091



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Classroom	+	50.9 fc	65.9 fc	25.0 fc	2.6:1	2.0:1

STORM SHELTER GENERAL NOTES

1. REFER TO ICC 500-2020, SECTION 306, PENETRATIONS OF STORM SHELTER ENVELOPE BY SYSTEMS AND UTILITIES.
   306.6 PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS, INCLUDING PIPING AND UTILITY LINES, LARGER THAN 3 1/2 INCH SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2 1/2 INCH IN DIAMETER, SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 306.4. PENETRATIONS OF THE STORM SHELTER ENVELOPE SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND MISSILE IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.
2. ICC 500 STORM SHELTER - EMERGENCY LIGHTING LEVELS PROVIDE TO MAINTAIN AN AVERAGE OF 1 FOOTCANDLE PER ICC-500 702.8.

2 E2.1 TYPICAL CLASSROOM STORM SHELTER - FOOTCANDLE CALCULATION

SCALE: 1/8" = 1-0"

LOW VOLTAGE SWITCH SCHEDULE

MARK	BUTTONS	RELAY/CIRCUIT	LABEL - ENGRAVING	AUTOMATION
A CORRIDORS	2	LC - a LC - a	ON OFF	MANUAL ON/OFF/TIMED OFF/MOTION OFF
B CLASSRM. OFFICES ETC.	4	LC - a LC - a LC - a LC - a	ON OFF RAISE LOWER	MANUAL ON / AUTO OFF MANUAL OFF RAISE LOWER

NOTES LIGHTING CONTROLS:

1. PROVIDE COMPLETE LIGHTING CONTROLS TO COMPLY WITH ASHRAE 90.1-2013 AS HEREIN NOTED AND AS SHOWN ON DRAWINGS.
2. ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
3. FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (120V).
4. SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL - AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS, 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION. 3) FINAL CHECK- AFTER FINAL INSPECTION IS COMPLETED, OWNER TRAINING.
5. MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH OWNER.
6. PROVIDE WIRELESS CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS.
7. ANY CONTROL CABLE IN EXPOSED AREAS SHALL BE INSTALLED IN CONDUIT.

CONNECT TO EXISTING LIGHTING CIRCUIT OF EXISTING CORRIDOR. PROVIDE UNSWITCHED HOTLEG FOR OPERATION OF EXIT LIGHT AND EMERGENCY LIGHT.

MOUNT 7'-9"A.F.F. TO CENTER OF LIGHT.

MOUNT 7'-9"A.F.F. TO CENTER OF LIGHT.

HB-1 THRU RELAY RB1 OF LIGHTING CONTROL CABINET 'LCP-HB' CONTROLLED BY TIME CLOCK 'TCB'. SEE SCHEDULE BELOW

'PART B' MATCHLINE 'PART A'

INDICATES STORM SHELTER AREA.

MOUNT 11'-6"A.F.F. TO CENTER OF LIGHT TYPICAL UNLESS NOTED OTHERWISE.

MOUNT 11'-6"A.F.F. TO CENTER OF LIGHT TYPICAL UNLESS NOTED OTHERWISE.

'PART B' MATCHLINE 'PART A'

INDICATES STORM SHELTER AREA.

HA-3 THRU RELAY RA1 OF LIGHTING CONTROL CABINET 'LCP-HA' CONTROLLED BY TIME CLOCK 'TCA'. SEE SCHEDULE BELOW.

MOUNT 11'-6"A.F.F. TO CENTER OF LIGHT TYPICAL UNLESS NOTED OTHERWISE.

HA-1 THRU RELAY RA2 OF LIGHTING CONTROL CABINET 'LCP-HA' CONTROLLED BY TIME CLOCK 'TCA'. SEE SCHEDULE BELOW.

VERIFY MOUNTING HEIGHT AND ROUTING OF CONDUIT WITH ARCHITECT PRIOR TO ROUGH-IN. CONDUIT TO BE ROUTED IN COLUMN.

N S 1 E2.1 LIGHTING FLOOR PLAN - PART 'A'

SCALE: 1/8" = 1-0"

NOTES:

1. FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL BE CYAN IN COLOR AND SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (277V).
2. VERIFY MOUNTING HEIGHT ON ALL EXTERIOR LIGHTS WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH IN.
3. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
4. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
5. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
6. ROOMS WITH ELECTRICAL PANELS SHALL NOT BE AUTOMATICALLY CONTROLLED.
7. LIGHTS IN MECHANICAL ROOMS SHALL BE ADJUSTED AS REQUIRED TO AVOID CONFLICTS WITH DUCT WORK AND BEST LIGHT THE SPACE.
8. REFER TO POWER PLAN FOR PANEL LOCATIONS.

LIGHTING CONTROL PANEL LCP-HA SCHEDULE

ROOM: ELECTRICAL A133

RELAY	VOLT	CIRCUIT	DESCRIPTION	AUTOMATION	NOTES
RA1	277	HA-3	FRONT EXTERIOR BLDG. LTS.	TIMED ON / TIMED OFF	
RA2	277	HA-1	CANOPY LTS.	TIMED ON / TIMED OFF	
RA3	277	HA-5	PARKING LOT LTS.	TIMED ON / TIMED OFF	
RA4	277	SPARE			

LIGHTING CONTROL PANEL LCP-HB SCHEDULE

ROOM: ELECTRICAL A117

RELAY	VOLT	CIRCUIT	DESCRIPTION	AUTOMATION	NOTES
RB1	277	HB-1	EXTERIOR BLDG. LTS.	TIMED ON / TIMED OFF	
RB2	277	HB-3	POST TOP LIGHTS	TIMED ON / TIMED OFF	
RB3	277	SPARE			
RB4	277	SPARE			

KEY PLAN
N.T.S.

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Project No: 25-091

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

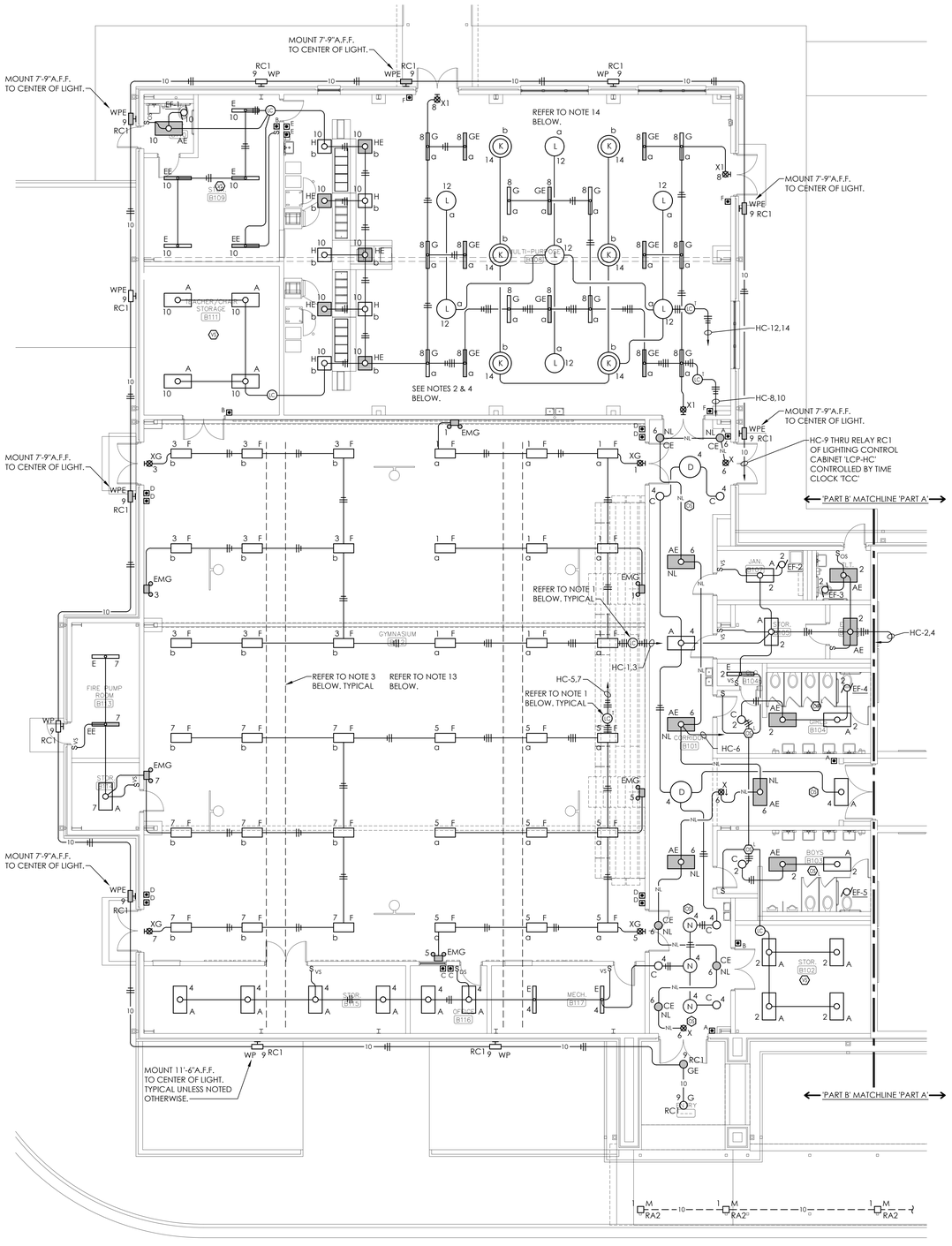
SHEET TITLE: LIGHTING FLOOR PLAN - PART 'B'

ALABAMA LICENSED PROFESSIONAL No. 33579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E2.1



LOW VOLTAGE SWITCH SCHEDULE

MARK	BUTTONS	RELAY/CIRCUIT	LABEL - ENGRAVING	AUTOMATION
A CORRIDORS	2	LC - a LC - a	ON OFF	MANUAL ON/OFF/TIMED OFF/MOTION OFF
B CLASSRM. OFFICES ETC.	4	LC - a LC - a LC - a LC - a	ON OFF RAISE LOWER	MANUAL ON / AUTO OFF MANUAL OFF RAISE LOWER
C GYM	6	LC - a LC - a LC - a LC - b LC - b LC - b	ON/OFF RAISE LOWER ON/OFF RAISE LOWER	MANUAL ON / OFF / TIMED OFF RAISE LOWER MANUAL ON / OFF / TIMED OFF RAISE LOWER
D GYM	6	LC - a LC - a LC - a LC - b LC - b LC - b	ON/OFF RAISE LOWER ON/OFF RAISE LOWER	MANUAL ON / OFF / TIMED OFF RAISE LOWER MANUAL ON / OFF / TIMED OFF RAISE LOWER
E MULTI PURPOSE	6	LC - a LC - a LC - a LC - b LC - b LC - b	ON/OFF RAISE LOWER ON/OFF RAISE LOWER	MANUAL ON / OFF / TIMED OFF RAISE LOWER MANUAL ON / OFF / TIMED OFF RAISE LOWER
F MULTI PURPOSE	2	LC - a LC - a	ON OFF	MANUAL ON/TIMED OFF MANUAL OFF

NOTES LIGHTING CONTROLS:

1. PROVIDE COMPLETE LIGHTING CONTROLS TO COMPLY WITH ASHRAE 90.1-2013 AS HEREIN NOTED AND AS SHOWN ON DRAWINGS.
2. ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
3. FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (120V).
4. SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL - AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS, 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION. 3) FINAL CHECK- AFTER FINAL INSPECTION IS COMPLETED. OWNER TRAINING.
5. MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH OWNER.
6. PROVIDE WIRELESS CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS.
7. ANY CONTROL CABLE IN EXPOSED AREAS SHALL BE INSTALLED IN CONDUIT.

LIGHTING CONTROL PANEL LCP-HC SCHEDULE

ROOM: ELECTRICAL B105b

RELAY	VOLT	CIRCUIT	DESCRIPTION	AUTOMATION	NOTES
RC1	277	HC-9	EXTERIOR BLDG. LIGHTS	TIMED ON / TIMED OFF	
RC2	277	HC-16	POST TOP LIGHTS	TIMED ON / TIMED OFF	
RC3	277	HC-18	CANOPY LIGHTS	TIMED ON / TIMED OFF	
CA4	277	SPARE			

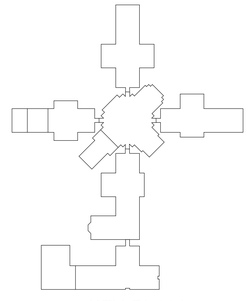
LIGHTING FLOOR PLAN - PART 'B'

N 1 E2.2

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

NOTES:

1. LIGHTING CONTROLS SHALL BE MOUNTED IN ELEC. B105b IN AN ACCESSIBLE LOCATION. ALL LOW-VOLTAGE CABLING RUN IN GYM SHALL BE INSTALLED IN CONDUIT.
2. ALL CONDUITS SURFACE MOUNTED IN GYM AND MULTI-PURPOSE AREA SHALL BE ROUTED HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE AND PAINTED TO MATCH FINISH OF AREA.
3. DASHED LINE INDICATES DUCT WORK. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ACCORDINGLY.
4. ALL LOW-VOLTAGE CABLING RUN IN GYM SHALL BE INSTALLED IN CONDUIT.
5. FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL BE PURPLE IN COLOR AND SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (277V).
6. VERIFY MOUNTING HEIGHT ON ALL EXTERIOR LIGHTS WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH IN.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
9. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
10. ROOMS WITH ELECTRICAL PANELS SHALL NOT BE AUTOMATICALLY CONTROLLED.
11. LIGHTS IN MECHANICAL ROOMS SHALL BE ADJUSTED AS REQUIRED TO AVOID CONFLICTS WITH DUCT WORK AND BEST LIGHT THE SPACE.
12. REFER TO POWER PLAN FOR PANEL LOCATIONS.
13. MOUNT FIXTURE 25'-0"A.F.F. TO BOTTOM OF LIGHT. TYPICAL.
14. VERIFY MOUNTING HEIGHT FOR FIXTURES 'K' AND 'L' PRIOR TO ROUGH-IN.



KEY PLAN

N.T.S.

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Project No: 25-091

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

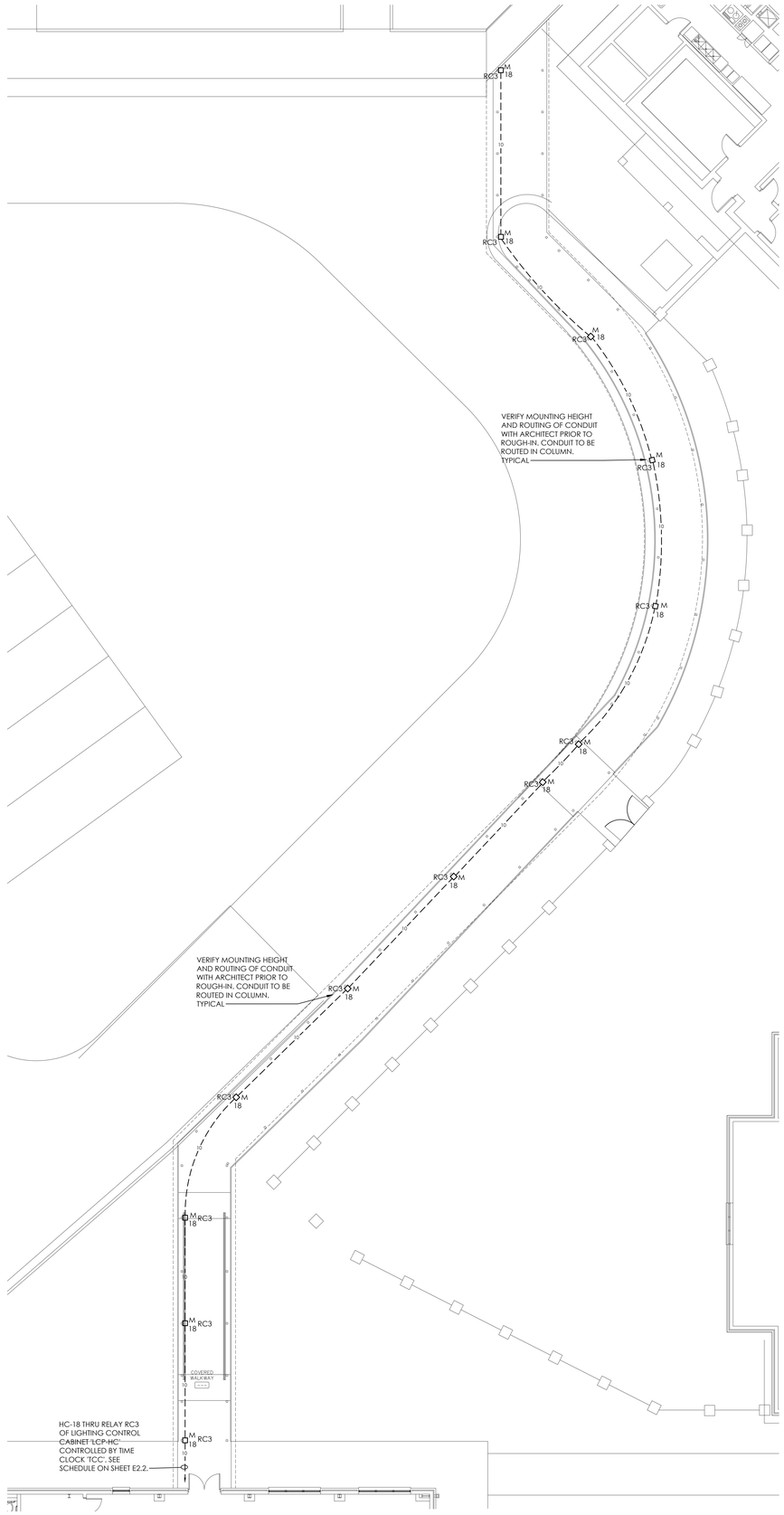
SHEET TITLE: LIGHTING FLOOR PLAN - PART 'B'

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 33079 1/14/26 MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E2.2



CANOPY LIGHTING PLAN - PART 'B'

SCALE: 3/32" = 1-0"

NOTES:

NOTES:

1. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
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ANDALUSIA, ALABAMA

SHEET TITLE: CANOPY LIGHTING PLAN - PART 'B'

ALABAMA No. 35579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E2.3

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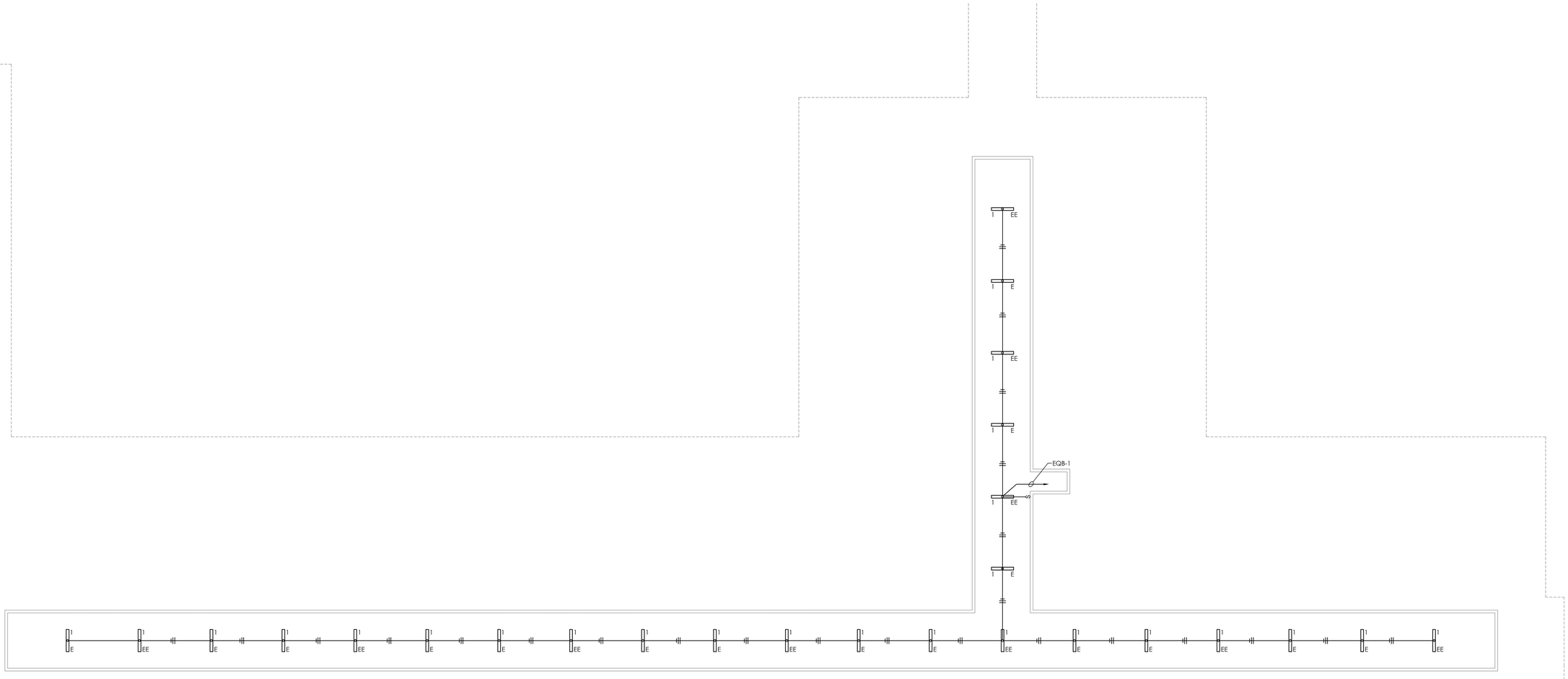

LIGHTING ATTIC PLAN

N (1/E2.4)

SCALE: 1/8" = 1-0"

NOTES:

1. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
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ANDALUSIA, ALABAMA

SHEET TITLE: LIGHTING ATTIC PLAN

ALABAMA LICENSED No. 33079 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E2.4

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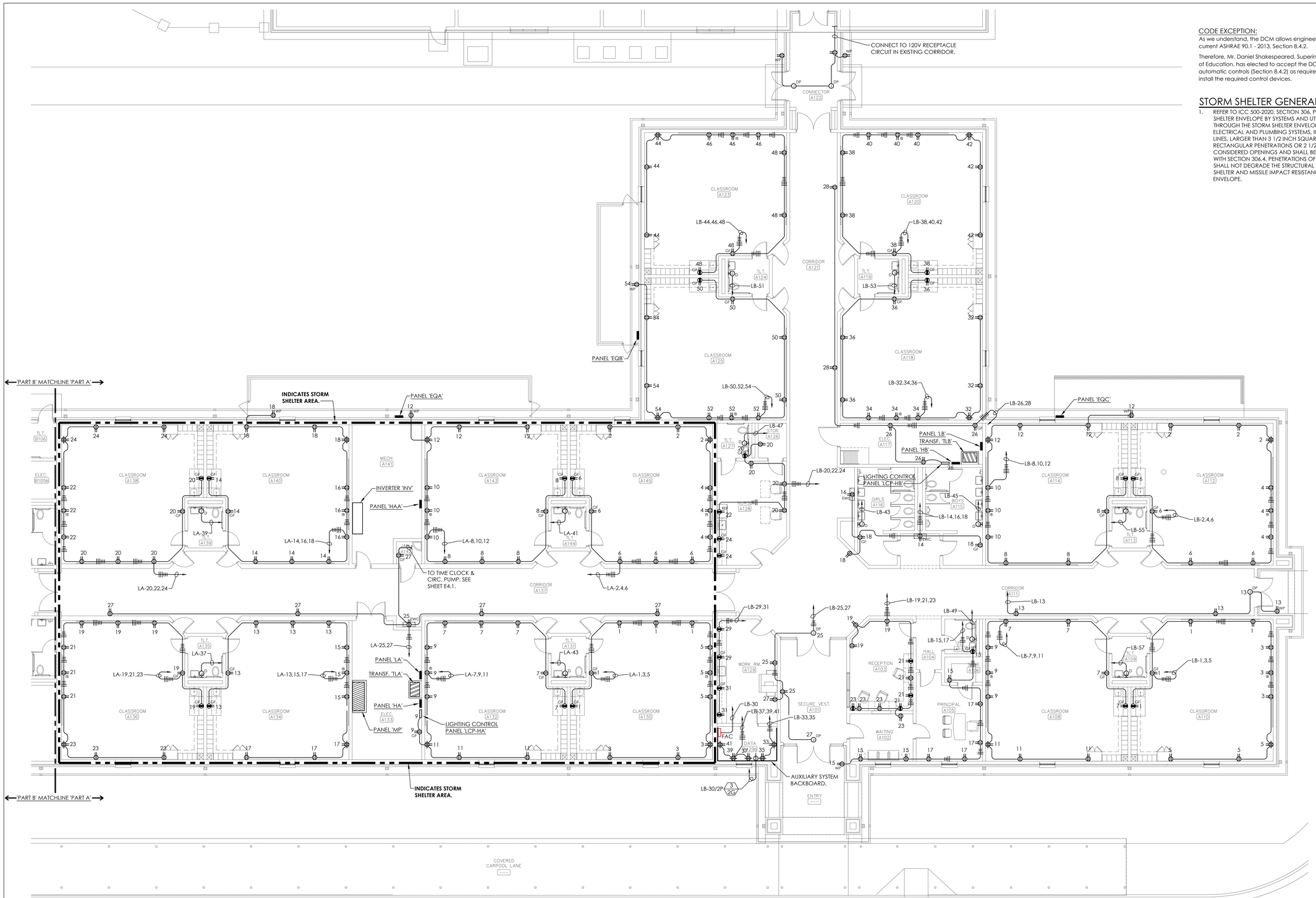

POWER FLOOR PLAN - PART 'A'

SCALE: 1/8" = 1-0"

NOTES:

1. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
2. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
3. **ALL RECEPTACLE WHERE SHALL BE TAMPER-RESISTANT STYLE DEVICE AS PER N.E.C. ARTICLE 406.12.**

CODE EXCEPTION:

As we understand, the DCM allows engineers to take exceptions to the current ASHRAE 90.1 - 2013, Section 8.4.2.

Therefore, Mr. Daniel Shakespeared, Superintendent of Andalusia City Board of Education, has elected to accept the DCM's exception to receptacle automatic controls (Section 8.4.2) as required in ASHRAE 90.1 - 2013 and not install the required control devices.

STORM SHELTER GENERAL NOTES

1. REFER TO ICC 500-2020, SECTION 306, PENETRATIONS OF STORM SHELTER ENVELOPE BY SYSTEMS AND UTILITIES. 306.6 PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS, INCLUDING PIPING AND UTILITY LINES, LARGER THAN 3 1/2 INCH SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2 1/2 INCH IN DIAMETER, SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 306.4. PENETRATIONS OF THE STORM SHELTER ENVELOPE SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND MISSILE IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.

KEY PLAN

N.T.S.

LATHAN ▪ McKEE ARCHITECTS

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

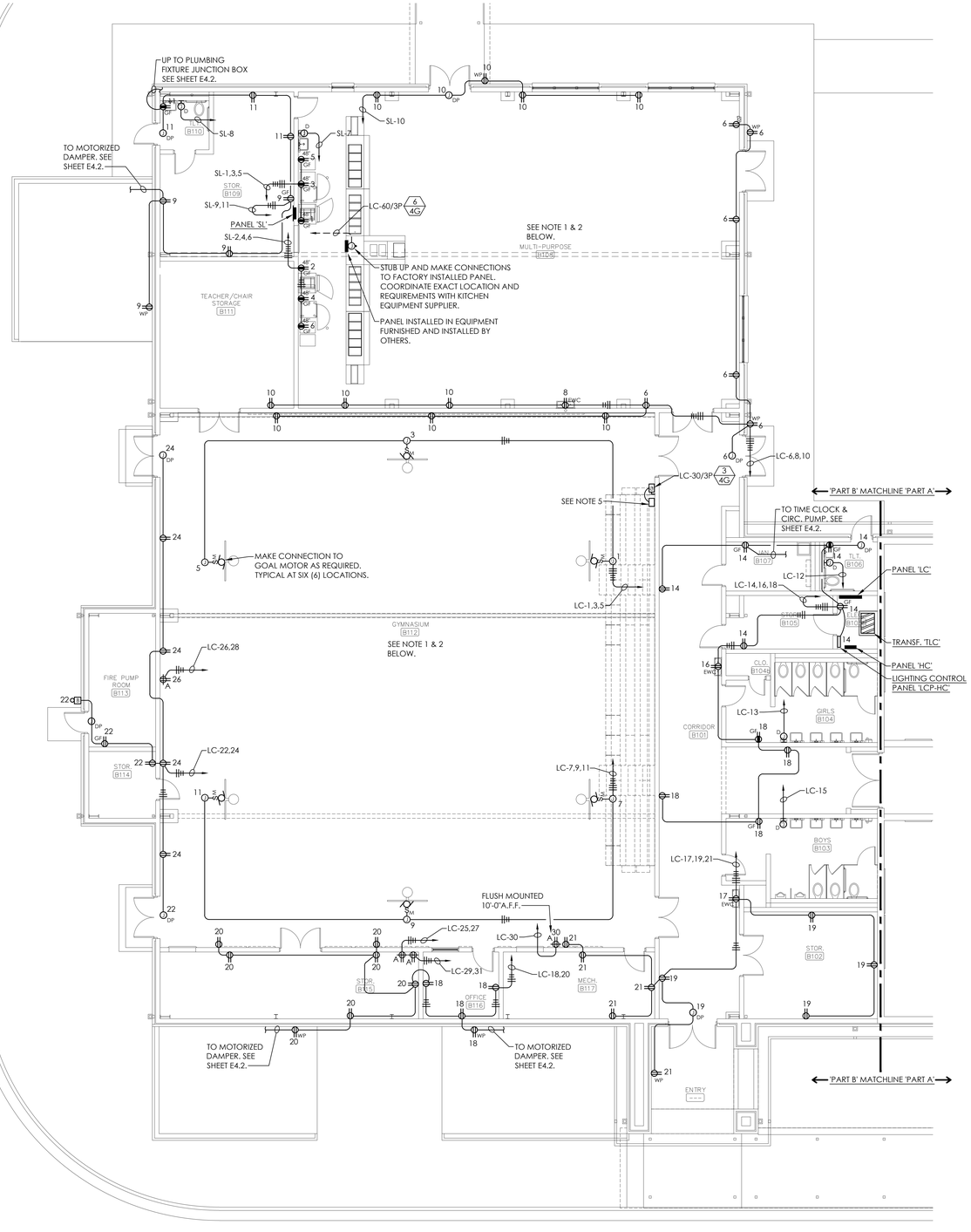
SHEET TITLE: POWER FLOOR PLAN - PART 'A'

ALABAMA REGISTERED No. 33579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E3.1

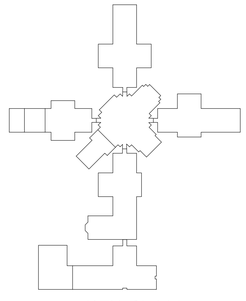


POWER FLOOR PLAN - PART 'B'

SCALE: 1/8" = 1-0"

NOTES:

1. ALL LOW-VOLTAGE CABLING RUN IN GYM AND MULTI-PURPOSE AREA SHALL BE INSTALLED IN CONDUIT.
2. ALL CONDUITS SURFACE MOUNTED IN GYM AND MULTI-PURPOSE AREA SHALL BE ROUTED HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE AND PAINTED TO MATCH FINISH OF AREA.
3. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
4. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
5. BLEACHERS CONTROL CABINET MAKE CONNECTIONS AS REQUIRED AND VERIFY EXACT LOCATION WITH SUPPLIER.
6. **ALL RECEPTACLE WHERE SHALL BE TAMPER-RESISTANT STYLE DEVICE AS PER N.E.C. ARTICLE 406.12.**



KEY PLAN

N.T.S.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
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ANDALUSIA, ALABAMA

SHEET TITLE: POWER FLOOR PLAN - PART 'B'

ALABAMA LICENSED No. 33579 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E3.2

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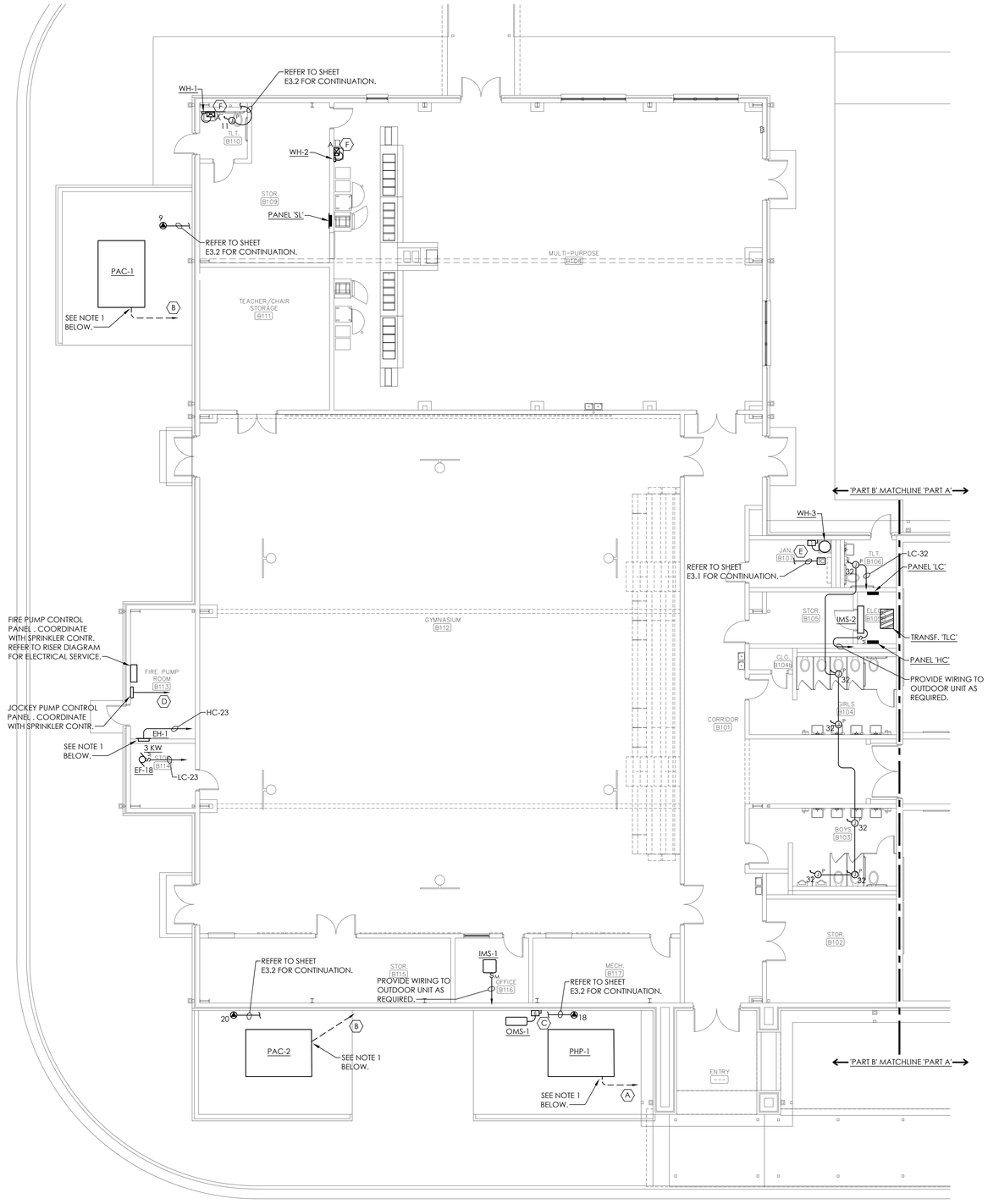
Project No: 25-091

MECHANICAL EQUIPMENT FEEDER SCHEDULE

SYMBOL	PANEL / BREAKER SIZE / CONDUCTOR SIZE
A	MP-125/3P - 3#1 & 1#6(G) - 1 1/2"c.
B	HC-90/3P - 3#3 & 1#8(G) - 1 1/4"c.
C	LC-20/2P - 2#10 & 1#10(G) - 3/4"c.
D	HC-20/3P - 3#10 & 1#10(G) - 3/4"c.
E	HC-20/2P - 2#10 & 1#10(G) - 3/4"c.
F	HC-20/1P - 2#10 & 1#10(G) - 3/4"c. REFER TO DETAIL 7 ON SHEET E0.5.

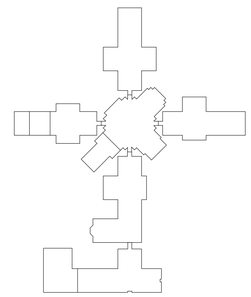


MECHANICAL POWER FLOOR PLAN - PART 'B'

SCALE: 1/8" = 1-0"

NOTES:

1. CONNECT CONDUCTORS TO FACTORY INSTALLED DISCONNECT MEANS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
2. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
3. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.



KEY PLAN

N.T.S.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: MECHANICAL POWER FLOOR PLAN - PART 'B'

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 33579 1/14/26 MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E4.2

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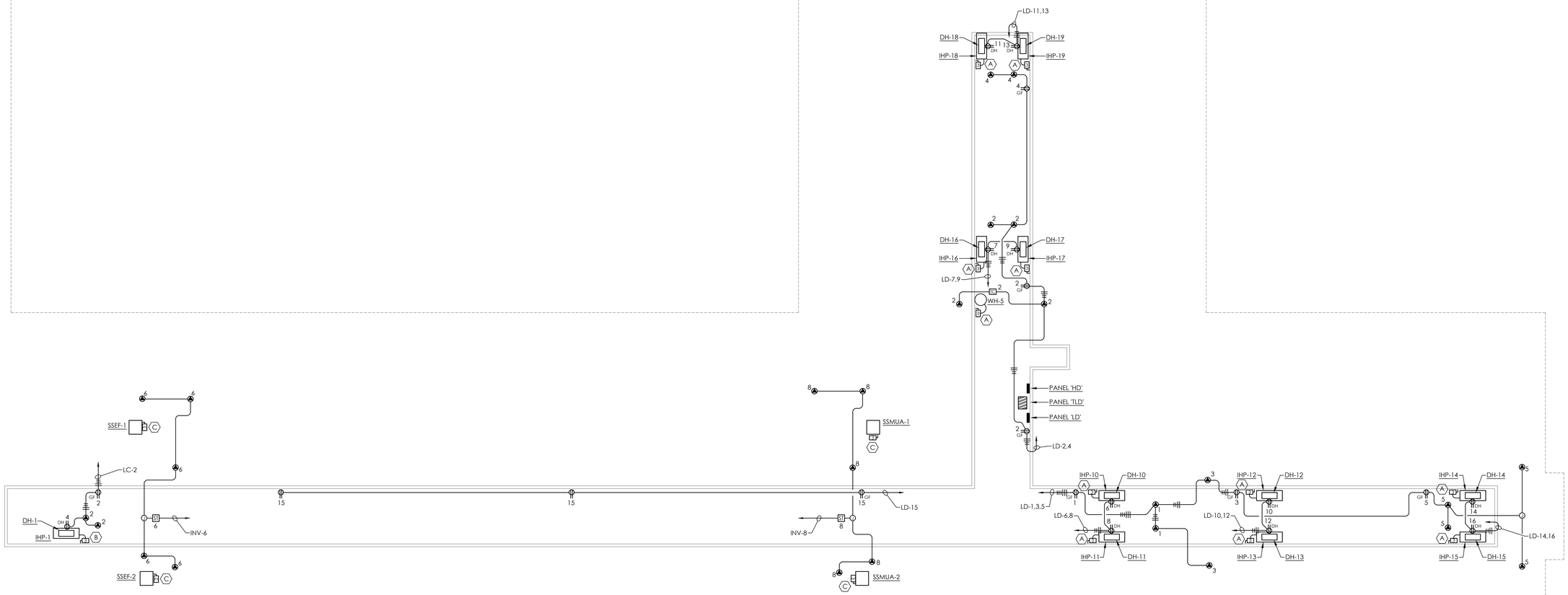
Project No: 25-091

- N:\2025 Jobs\25-091 Andalusia Elementary Addition\Drawings\Elec\25091-POWER HVAC.dwg
- Tuesday, January 13, 2026 10:25:06 AM

MECHANICAL EQUIPMENT FEEDER SCHEDULE	
SYMBOL	PANEL / BREAKER SIZE / CONDUCTOR SIZE
A	HD-20/3P - 3#10 & 1#10(G) - 3/4"c.
B	HC-20/3P - 3#10 & 1#10(G) - 3/4"c.
C	INV-20/3P - 3#10 & 1#10(G) - 3/4"c.



MECHANICAL POWER ATTIC PLATFORM

SCALE: 1/8" = 1-0"

NOTES:

1. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
2. ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: MECHANICAL POWER ATTIC PLAN

ALABAMA
No. 35579
PROFESSIONAL
1/14/26
ENGINEER
MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E4.3

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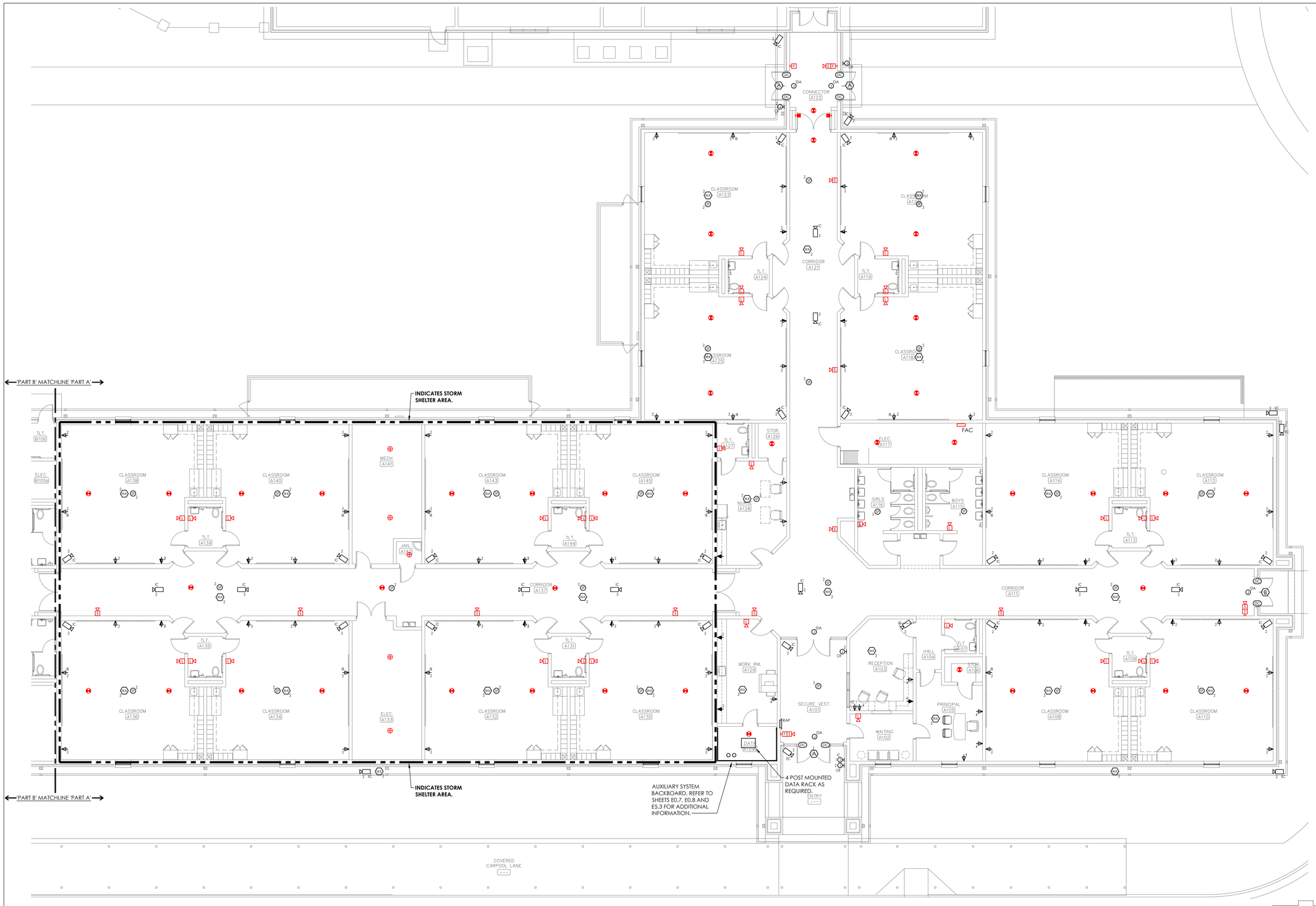
Project No: 25-091



AUXILIARY FLOOR PLAN - PART 'A'

SCALE: 1/8" = 1-0"

STORM SHELTER GENERAL NOTES

REFER TO ICC 500-2020, SECTION 306, PENETRATIONS OF STORM SHELTER ENVELOPE BY SYSTEMS AND UTILITIES. 306.6 PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS, INCLUDING PIPING AND UTILITY LINES, LARGER THAN 3 1/2 INCH SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2 1/2 INCH IN DIAMETER, SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 306.4. PENETRATIONS OF THE STORM SHELTER ENVELOPE SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND MISSILE IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.

GENERAL NOTES

1. STRUCTURED CABLING SYSTEM BY CONTRACTOR.
2. ALL STRUCTURED CABLING, AUXILIARY CABLING AND AUDIO VISUAL CABLING SHALL BE PLENUM RATED.
3. FIRE ALARM CONTRACTOR SHALL BE PERMITTED THROUGH THE STATE OF ALABAMA FIRE MARSHALL'S OFFICE.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING IN CONDUIT FOR FIRE ALARM SYSTEM ALTHOUGH NOT SPECIFICALLY SHOWN ON DRAWING. FIRE ALARM DEVICES AND EQUIPMENT ARE SHOWN AND MUST BE PROPERLY CONNECTED TO PROVIDE A COMPLETE WORKING SYSTEM. WIRING AND ZONING SHALL BE AS RECOMMENDED BY MANUFACTURER AND THE NEW SYSTEM MUST COMMUNICATE WITH EXISTING SYSTEM.
5. FIRE ALARM SYSTEM SHALL BE TESTED AND CERTIFIED.
6. VERIFY EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT'S INTERIOR ELEVATIONS AND SECTIONS TO LOCATE DEVICES.
7. ALL CEILING MOUNTED DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES. SEE ARCHITECTURAL REFLECTED CEILING PLANS.
8. SEE ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL DEVICES.
9. VERIFY EXACT LOCATION OF ALL TV AND INTERACTIVE BOARDS. SEE DETAILS ON SHEET E0.7.
10. VERIFY EXACT LOCATION OF ALL CCTV BOX LOCATIONS WITH I.T. PERSONNEL PRIOR TO ROUGH-IN. CONTACT Matthew McQuay, PHONE #334-222-3186.
11. REFER TO ARCHITECTURAL ALLOWANCES FOR CAMERAS. ALL BOXES, CONDUITS AND CABLING SHALL BE BY CONTRACTOR UNDER BASE BID. CAMERAS TO BE INSTALLED BY CONTRACTOR IF ALLOWANCE IS ACCEPTED.
12. IN EXPOSED AREA, ALL CABLING SHALL BE ROUTED IN CONDUIT. ALL EXPOSED WIRING SHALL BE KEPT TO A MINIMUM.
13. ALL WIRELESS ACCESS POINTS SHALL HAVE 15' OF SLACK CABLE ROLLED UP ABOVE ACCESSIBLE CEILING FOR THE OWNER TO BE ABLE TO MODIFY THE POSITION OF THE DEVICE ACCORDINGLY.
14. ALL AUDIO VISUAL EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED. VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER / ARCHITECT.
15. ACCESS CONTROL EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED. VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER / ARCHITECT.

KEY PLAN
N.T.S.

SHEET MUST BE PRINTED IN COLOR

LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: AUXILIARY FLOOR PLAN - PART 'A'

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 33579
PROFESSIONAL
1/14/26
ENGINEER
MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E5.1

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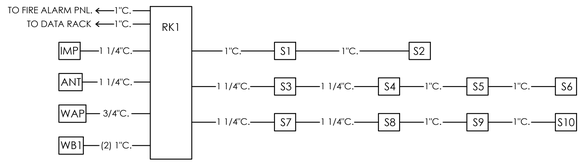
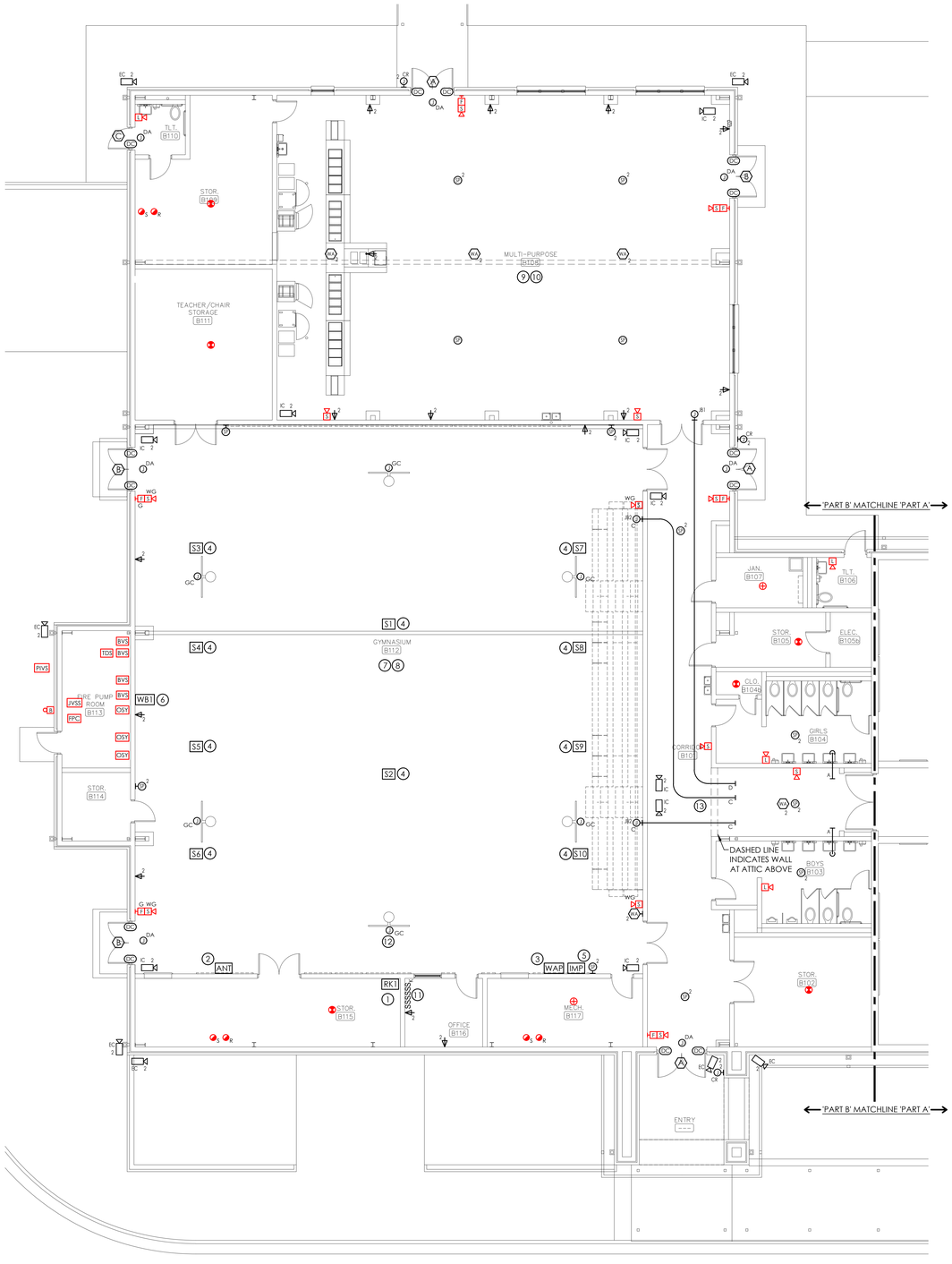


2 E5.2 SOUND SYSTEM RISER DIAGRAM

SCALE: NOT TO SCALE

NOTES:

1. PROVIDE ALL CABLING AS REQUIRED.



N E5.2 1 AUXILIARY FLOOR PLAN - PART 'B'

SCALE: 1/8" = 1-0"

NOTES:

1. ALL LOW-VOLTAGE CABLING RUN IN GYM AND MULTI-PURPOSE AREA SHALL BE INSTALLED IN CONDUIT.
2. ALL CONDUITS SURFACE MOUNTED IN GYM AND MULTI-PURPOSE AREA SHALL BE ROUTED HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE AND PAINTED TO MATCH FINISH OF AREA.

SHEET NOTES

1. LOWELL RACK BACK PLANE FURNISHED BY AV CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SOUND SYSTEM RISER.
2. HUBBELL #HBL985 MOUNTED 10'-0" A.F.F FLUSH MOUNTED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SOUND SYSTEM RISER.
3. HUBBELL #HBL985 MOUNTED 10'-0"A.F.F. FLUSH MOUNTED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL RECEPTACLE 8" TO THE RIGHT OR LEFT OF BOX. SEE SOUND SYSTEM RISER.
4. TYPICAL GARVIN #72171-1-1/4W MOUNTED AT CEILING TRUSS LEVEL. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SOUND SYSTEM RISER.
5. HUBBELL #HBL985 FLUSH MOUNTED 10'-0"A.F.F. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SOUND SYSTEM RISER.
6. FLUSH MOUNTED FSR #WB-X3-PLT BACK BOX WITH WB-X3-CVR COVER. FURNISHED BY AV CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT SAME HEIGHT AS RECEPTACLES ON WALL. SEE SOUND SYSTEM RISER.
7. ALL LOW-VOLTAGE CABLING RUN IN GYM SHALL BE INSTALLED IN CONDUIT.
8. ALL CONDUITS SURFACE MOUNTED IN GYM SHALL BE ROUTED HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE AND PAINTED TO MATCH FINISH OF AREA.
9. ALL LOW-VOLTAGE CABLING RUN IN MULTI-PURPOSE SHALL BE INSTALLED IN CONDUIT AND HOMERUN TO JUNCTION BOX 'JB1'.
10. ALL CONDUITS SURFACE MOUNTED IN MULTI-PURPOSE SHALL BE ROUTED HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE AND PAINTED TO MATCH FINISH OF AREA.
11. BASKETBALL GOAL KEY OPERATED CONTROL STATION. PROVIDE 6-GANG BOX AND ASSOCIATED CONDUITS (3/4"C.) AS REQUIRED. VERIFY EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN WITH ARCHITECT AND BASKETBALL GOAL MANUFACTURER.
12. JUNCTION BOX FOR BASKETBALL GOAL CONTROLS WITH 3/4" WIRING AS REQUIRED DOWN TO KEY SWITCH LOCATED IN OFFICE. VERIFY EXACT LOCATION AND REQUIREMENTS WITH BASKETBALL GOAL SUPPLIER PRIOR TO ROUGH-IN.
13. CONDUITS STUBBED INTO ATTIC SPACE AND TERMINATE WITH BUSHING AT CABLE TRAY. SEE SHEET E5.3.

GENERAL NOTES

1. STRUCTURED CABLING SYSTEM BY CONTRACTOR.
2. ALL STRUCTURED CABLING, AUXILIARY CABLING AND AUDIO VISUAL CABLING SHALL BE PLENUM RATED.
3. FIRE ALARM CONTRACTOR SHALL BE PERMITTED THROUGH THE STATE OF ALABAMA FIRE MARSHALL'S OFFICE.
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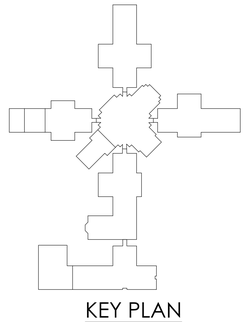
14. ALL AUDIO VISUAL EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED, VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER / ARCHITECT.
15. ACCESS CONTROL EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED, VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER / ARCHITECT.



KEY PLAN

N.T.S.

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LATHAN ▪ McKEE ARCHITECTS

ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

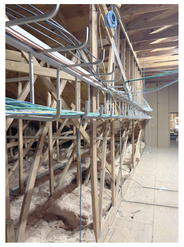
SHEET TITLE: AUXILIARY FLOOR PLAN - PART 'B'

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 33579 1/14/26 JORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

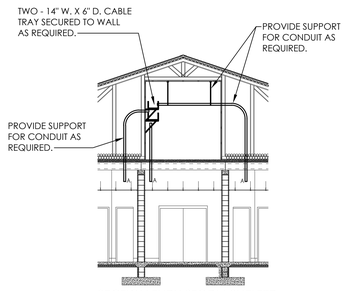
JOB NO. 24-304

SHEET NO: E5.2

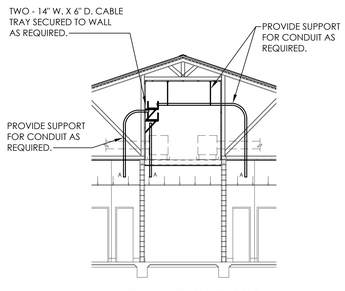


EXISTING CABLE TRAY REFERENCE PHOTO

NOT TO SCALE



SECTION THRU STORM SHELTER



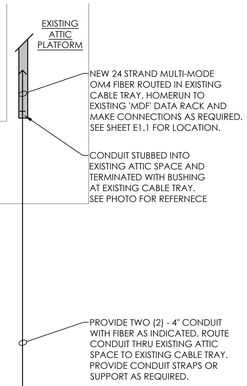
SECTION THRU CORRIDOR

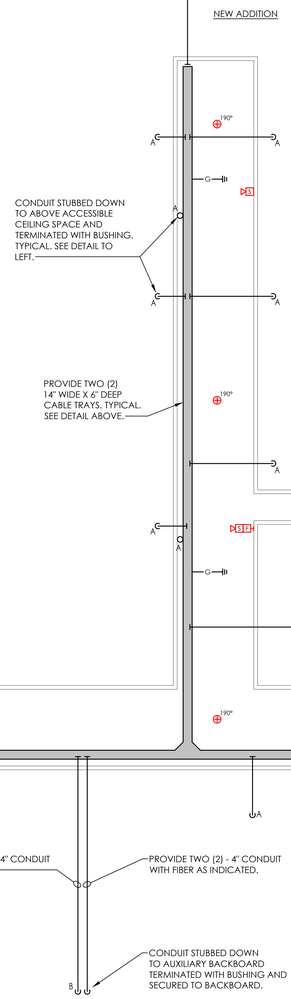
2 E5.3 CABLE TRAY ELEVATION

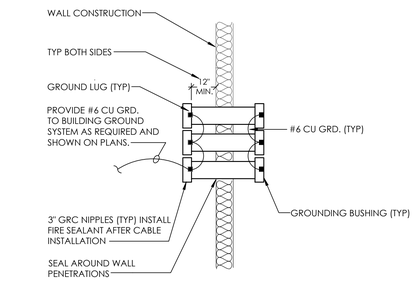
SCALE: 1/8" = 1-0"

NOTES:

1. TERMINATE BOTH ENDS OF CONDUIT WITH BUSHING. SECURE ONE END OF CONDUIT AT CABLE TRAY AND STUB OTHER END INTO ABOVE ACCESSIBLE CEILING SPACE A MIN. 12" ABOVE CEILING.







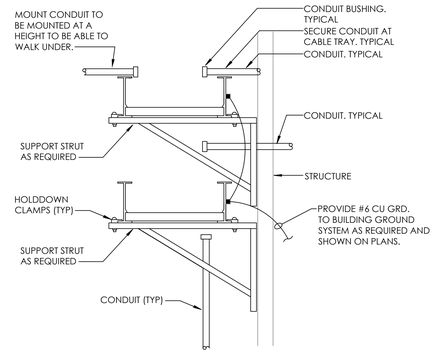
WALL PENETRATION

3 E5.3 SLEEVE INSTALLATION DETAIL

SCALE: 1/8" = 1-0"

NOTES:

PROVIDE BUSHING AND GROUNDING AS REQUIRED.



4 E5.3 CABLE TRAY INSTALLATION DETAIL

SCALE: 1/8" = 1-0"

NOTES:

1. PROVIDE THE PROPER FITTINGS, SPLICE & END PLATES, ELBOWS, OFFSETS, "T" CONNECTIONS, DEVICES, ETC., AS REQUIRED FOR THE INSTALLATION SHOWN ON THE DRAWINGS.

N 1 E5.3 AUXILIARY ATTIC PLAN

SCALE: 1/8" = 1-0"

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ADDITION TO
ANDALUSIA ELEMENTARY SCHOOL
FOR THE
ANDALUSIA CITY BOARD OF EDUCATION
ANDALUSIA, ALABAMA

SHEET TITLE: AUXILIARY ATTIC PLAN

ALABAMA LICENSED No. 35079 PROFESSIONAL 1/14/26 ENGINEER MORGAN GARNER

PROJ. MGR.:	RH
DRAWN:	RH
DATE:	01-14-2026
REVISIONS	

JOB NO. 24-304

SHEET NO: E5.3

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