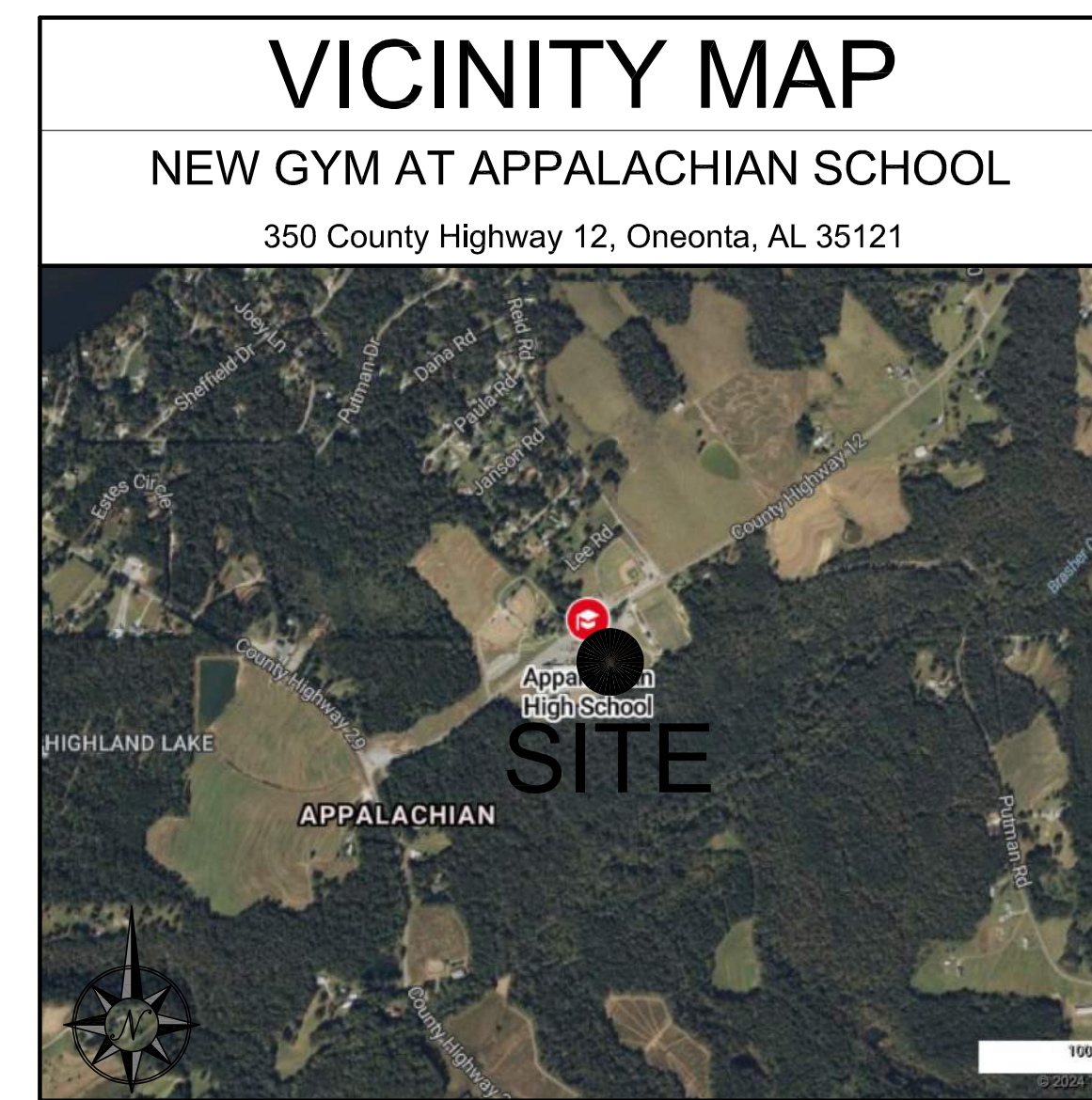


# NEW GYMNASIUM FOR APPALACHIAN SCHOOL FOR THE BLOUNT COUNTY BOARD of EDUCATION ONEONTA, ALABAMA

NEW GYMNASIUM AT APPALACHIAN SCHOOL  
FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

MCKEE and ASSOCIATES  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



CONTACTS		
<b>OWNER</b> Blount City Board of Education 204 2nd Avenue East Oneonta, Alabama 35121 Phone: (205) 625.4102	<b>CIVIL</b> TTL 101 Quality Circle Huntsville, Alabama 35806 Phone: (256) 384.6768	<b>PLUMBING and MECHANICAL</b> Morris Engineering 903 S. Perry Street Montgomery, Alabama 36104 Phone: (334) 269.0329
<b>ARCHITECTURAL</b> Mckee and Associates 631 South Hull Street Montgomery, Alabama 36104 Phone: (334) 834.9933	<b>STRUCTURAL</b> Day Structures 141 West Main Street Prattville, Alabama 36067 Phone: (334) 277.9550	<b>ELECTRICAL</b> Gunn and Associates 3102 Highway 14 Millbrook, AL 36054 Phone: (334) 285.1273

## INDEX TO DRAWINGS

GENERAL		S3.1	SECTIONS	FIRE PROTECTION		ELECTRICAL	
G0.1	TITLE SHEET AND INDEX TO DRAWINGS	S3.2	SECTIONS	FP1.0	FIRE SPRINKLER FLOOR PLANS - LOWER LEVEL	E0.1	ELECTRICAL LEGEND & NOTES
G1.1	CODE PLAN - MAIN LEVEL	S3.3	SECTIONS	FP1.1	FIRE SPRINKLER FLOOR PLANS - MAIN LEVEL	E1.1	SITE PLAN - ELECTRICAL
G1.2	CODE PLAN - LOWER LEVEL	S3.4	SECTIONS	FP2.0	FIRE SPRINKLER DETAILS AND CALCULATIONS	E1.2	TRENCHING DETAILS & NOTES
<b>CIVIL</b>		S3.5	SECTIONS	<b>PLUMBING</b>		E2.1	MAIN LEVEL FLOOR PLAN - LIGHTING
C0.1	GENERAL NOTES	<b>ARCHITECTURAL</b>		P1.1	PLUMBING WASTE AND VENT PIPING PLANS- MAIN LEVEL	E2.2	LOWER LEVEL FLOOR PLAN - LIGHTING
C0.2	SITE DEMOLITION PLAN	A0.1	OVERALL MAIN FLOOR PLAN	P1.2	PLUMBING WASTE AND VENT PIPING PLANS- LOWER LEVEL	E2.3	LIGHTING CONTROL DETAILS & NOTES
C1.0	SITE LAYOUT PLAN	A0.2	OVERALL LOWER FLOOR PLAN	P1.3	ENLARGED PLUMBING WASTE AND VENT PIPING PLANS	E2.4	LIGHTING CONTROL DETAILS & NOTES
C2.0	SITE GRADING PLAN	A1.1	FLOOR PLAN - MAIN LEVEL	P2.1	PLUMBING WATER PIPING PLAN- MAIN LEVEL	E3.1	MAIN LEVEL FLOOR PLAN - POWER
C2.1	DRAINAGE PLAN	A1.2	FLOOR PLAN - LOWER LEVEL	P2.2	PLUMBING WATER PIPING PLAN- LOWER LEVEL	E3.2	LOWER LEVEL FLOOR PLAN - POWER
C3.0	SITE UTILITY PLAN	A1.3	COURT PLAN	P2.3	ENLARGED PLUMBING WATER PIPING PLANS	E3.3	MAIN LEVEL FLOOR PLAN MECHANICAL POWER
C4.0	EROSION CONTROL PLAN	A1.4	ENLARGED PLANS	P3.1	PLUMBING WASTE AND VENT RISERS	E3.4	LOWER LEVEL FLOOR PLAN MECHANICAL POWER
C4.1	EROSION CONTROL DETAILS	A2.1	REFLECTED CEILING PLAN - MAIN LEVEL	P4.1	PLUMBING GENERAL NOTES, SCHEDULES AND DETAILS	E3.5	GENERAL EQUIPMENT SCHEDULE
C5.0	CIVIL DETAILS	A2.2	REFLECTED CEILING PLAN - LOWER LEVEL	P4.2	PLUMBING DETAILS	E4.1	MAIN LEVEL FLOOR PLAN - AUXILIARY
<b>STRUCTURAL</b>		A3.1	ROOF PLAN	<b>MECHANICAL</b>		E4.2	LOWER LEVEL FLOOR PLAN - AUXILIARY
S0.1	GENERAL NOTES AND PROJECT DATA	A4.1	EXTERIOR ELEVATIONS	M1.1	MECHANICAL FLOOR PLAN - LOWER LEVEL	E5.1	LIGHTING SCHEDULE DETAILS AND NOTES
S0.2	GENERAL NOTES AND PROJECT DATA	A4.2	EXTERIOR ELEVATIONS	M1.2	MECHANICAL FLOOR PLAN - MAIN LEVEL	E5.2	PANELBOARD SCHEDULES DETAILS AND NOTES
S0.3	TYPICAL DETAILS AND WIND PRESSURE DIAGRAMS	A5.1	BUILDING SECTIONS	M2.1	MECHANICAL PIPING FLOOR PLAN- LOWER LEVEL	E6.1	FIRE ALARM RISER DIAGRAMS DETAILS AND NOTES
S0.4	SPECIAL INSPECTION SCHEDULE	A5.2	BUILDING SECTIONS	M2.2	MECHANICAL PIPING FLOOR PLAN- MAIN LEVEL	E6.2	COMMUNICATION RISER DIAGRAM DETAILS AND NOTES
S1.1	GYM FOUNDATION PLAN	A6.1	WALL SECTIONS	M3.1	MECHANICAL LEGEND GENERAL NOTES AND SCHEDULES	E6.3	COMMUNICATION RISER DIAGRAM DETAILS AND NOTES
S1.2	CONNECTOR FOUNDATION PLAN AND SLAB ON GRADE	A6.2	WALL SECTIONS	M3.2	MECHANICAL SCHEDULES AND DETAILS	E7.1	POWER RISER DIAGRAMS DETAILS AND NOTES
S1.3	MEZZANINE FRAMING PLAN AND S.O.G. PLAN	A8.1	ROOM FINISH SCHEDULE & DOOR SCHEDULE	M3.3	MECHANICAL DETAILS	E7.2	GROUNDING DETAILS AND NOTES
S1.4	ROOF FRAMING PLAN	A8.2	DOOR DETAILS	M3.4	MECHANICAL DETAILS		
S1.5	CONNECTOR ROOF FRAMING PLAN	A9.1	MISCELLANEOUS DETAILS	M3.5	MECHANICAL DETAILS		
S2.1	TRUSS DIAGRAMS	A9.2	MISCELLANEOUS DETAILS	M3.6	MECHANICAL PIPING DIAGRAMS		
S2.2	STEEL ELEVATION	A10.1	CASEWORK	M3.7	MECHANICAL CONTROL DIAGRAMS		

SHEET TITLE : COVER SHEET AND INDEX TO DRAWINGS

MCKEE JOB # : 24-169

PSCA # : XXX

DRAWN BY : SKL

DATE : 9/18/24

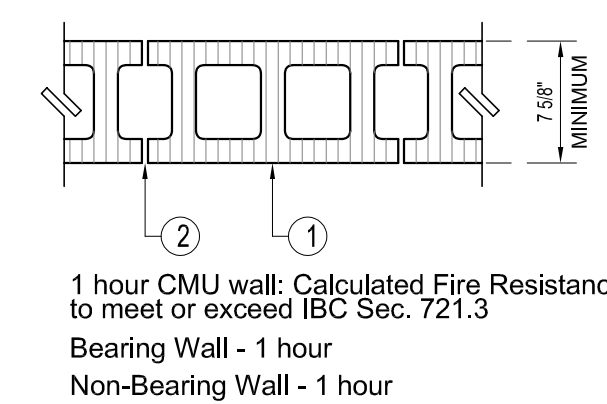
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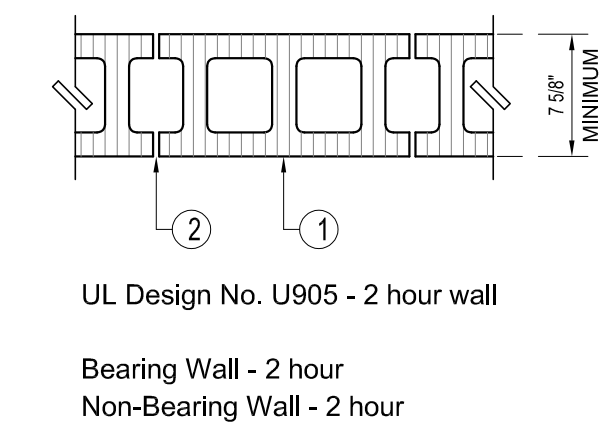
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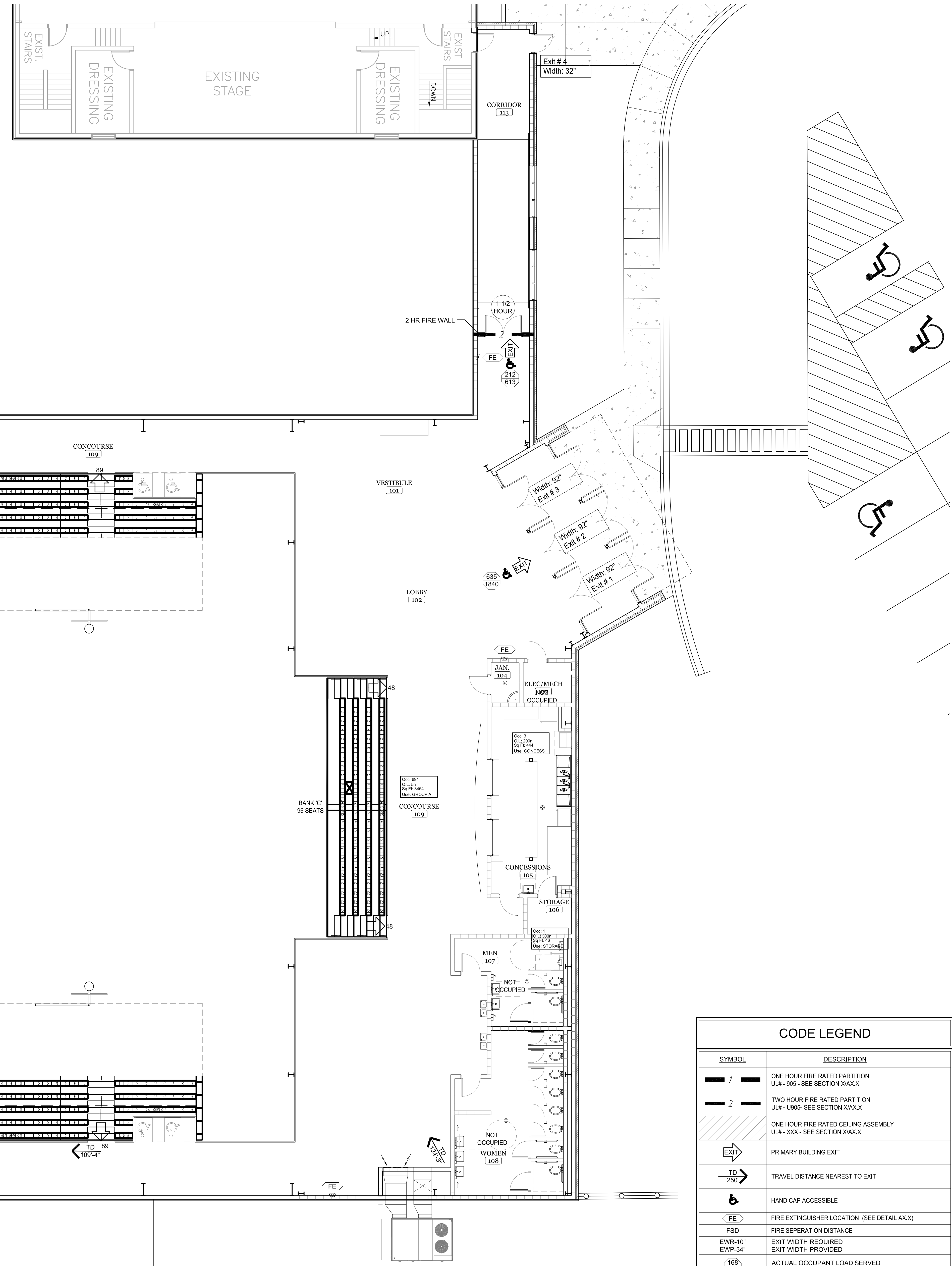
1 hour CMU wall, Calculated Fire Resistance to meet or exceed IBC Sec. 721.3  
 Bearing Wall - 1 hour  
 Non-Bearing Wall - 1 hour

1 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

2 TWO-HOUR FIRE RATED WALL PLAN DETAIL  
 SCALE: 1" = 1'-0"



CODE PLAN - MAIN LEVEL  
 SCALE: 1/8" = 1'-0"

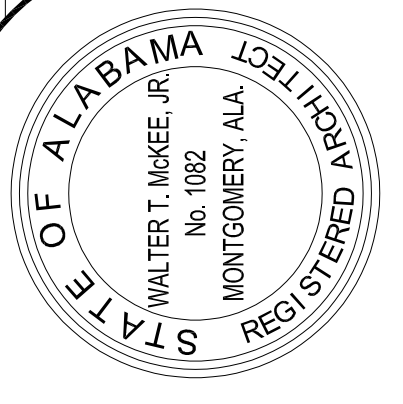
CODE LEGEND	
SYMBOL	DESCRIPTION
1	ONE HOUR FIRE RATED PARTITION ULF - 905 - SEE SECTION X1XX
2	TWO HOUR FIRE RATED PARTITION ULF - U905 - SEE SECTION X1XX
1	ONE HOUR FIRE RATED CEILING ASSEMBLY ULF - XXX - SEE SECTION X1XX
EXIT	PRIMARY BUILDING EXIT
TD 250'	TRAVEL DISTANCE NEAREST TO EXIT
♿	HANDICAP ACCESSIBLE
FE	FIRE EXTINGUISHER LOCATION (SEE DETAIL AX.X)
FSD	FIRE SEPERATION DISTANCE
EW-10"	EXIT WIDTH REQUIRED
EW-34"	EXIT WIDTH PROVIDED
168 340	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
1 HOUR	RATED DOOR ASSEMBLY

SHEET TITLE : CODE PLAN - MAIN LEVEL  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : G1.1

NEW GYMNASIUM AT APPALACHIAN SCHOOL  
 FOR THE  
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 ONEONTA, ALABAMA

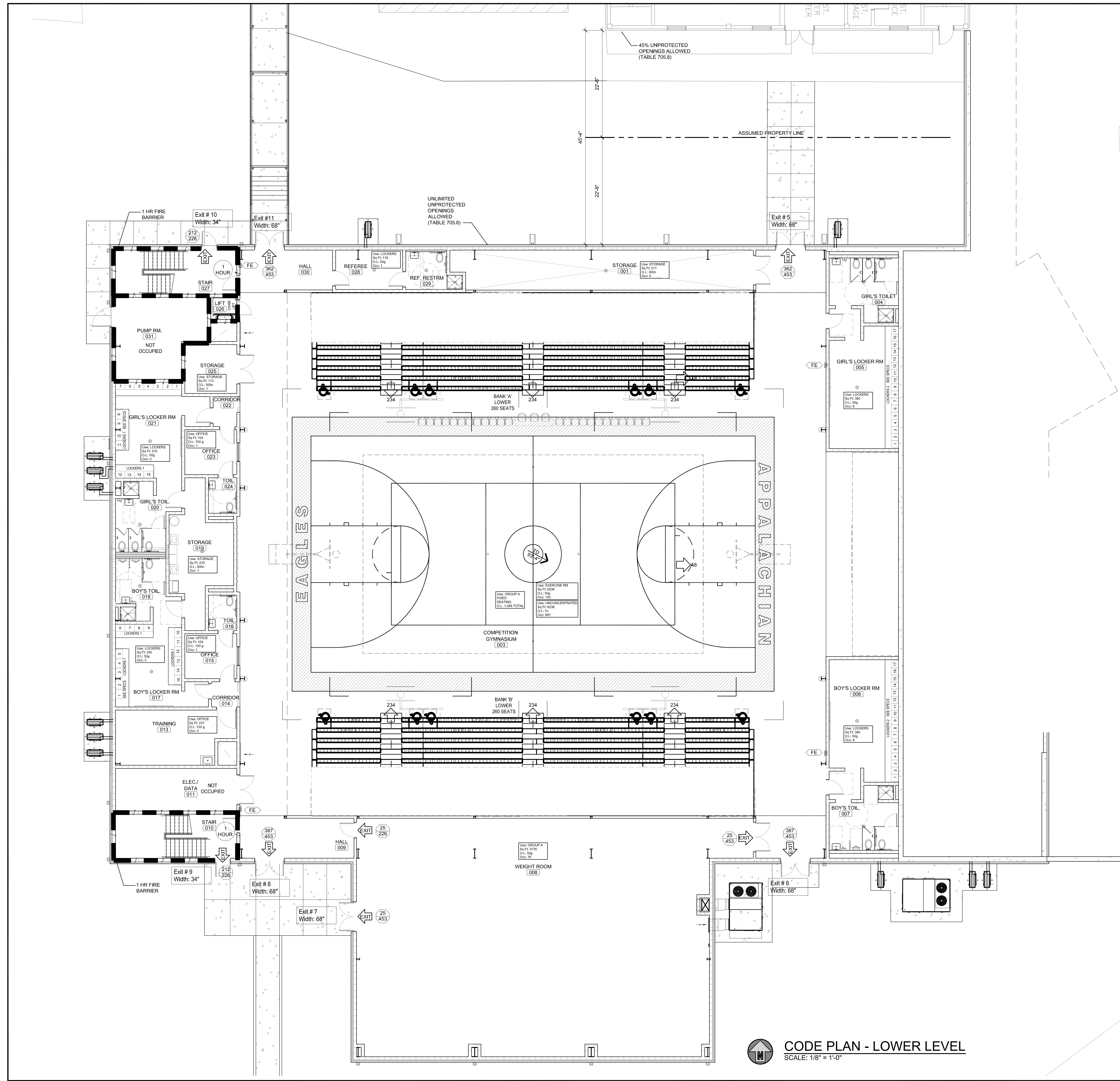
MCKEE and ASSOCIATES  
 ARCHITECTS, INC.



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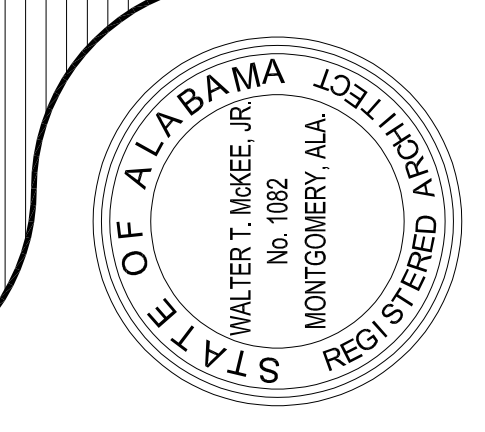
CODE LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	ONE HOUR FIRE RATED PARTITION ULF - 905 - SEE SECTION XIAX.X
[Symbol]	ONE HOUR FIRE RATED CEILING ASSEMBLY ULF - XXX - SEE SECTION XIAX.X
[Symbol]	PRIMARY BUILDING EXIT
[Symbol]	TRAVEL DISTANCE NEAREST TO EXIT
[Symbol]	HANDICAP ACCESSIBLE
[Symbol]	FIRE EXTINGUISHER LOCATION (SEE DETAIL AX.X)
[Symbol]	FIRE SEPARATION DISTANCE
[Symbol]	EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED
[Symbol]	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
[Symbol]	RATED DOOR ASSEMBLY

CODE REVIEW	
CODE:	2021 INTERNATIONAL BUILDING CODE
OCCUPANCY TYPE:	GROUP 'A-4'
SPRINKLERED:	YES
NUMBER OF STORIES:	TWO
CONSTRUCTION TYPE:	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 EX. A):	2 HOURS
FIRE BARRIERS (TABLE 707.3.10):	2 HOURS
FIRE PUMP ROOM (913.2.1 EX. 1):	1 HOUR
SHAFT ENCLOSURES (713.4):	1 HOUR
EXIT ACCESS STAIRS (713.4, 1023.2):	1 HOUR
OCCUPANCY SEPARATION (TABLE 508.4):	NA
INCIDENTAL USE AREAS (TABLE 509.1):	NA
CORRIDORS (TABLE 1020.2):	0 HRS SPRINKLERED
CORRIDOR WIDTH (TABLE 1020.3):	72"
EXIT ACCESS TRAVEL DISTANCE IS 250 FEET FOR A (TABLE 1017.2)	

EXIT CALCULATIONS	
<b>TOTAL BUILDING AREA</b>	
OCCUPANCY TYPE - GROUP 'A-4'	
BUILDING TYPE: II-B	
ALLOWABLE SF: 28,500 SQ FT (TABLE 506.2)	
ACTUAL SF: 27,469 SQ FT	
ALLOWABLE HEIGHT	
ALLOWABLE HEIGHT: 75 FT (TABLE 504.3)	
ALLOWABLE NO. OF STORIES: 3 (TABLE 504.4)	
ACTUAL BUILDING HEIGHT: 46 FT	
ACTUAL NO. OF STORIES: 2	
<b>OCCUPANT LOAD</b>	
OCCUPANT LOAD TOTAL (TABLE 1004.5) =	
OCCUPANT LOAD - ASSEMBLY AREA = 1987 (MAX EGRESS)	
1096 FIXED SEATING	
125 EXERCISE ROOM (GYM FLOOR)	
891 UNCONCENTRATED (GYM FLOOR)	
OCCUPANT LOAD - OTHER AREAS 115	
<b>EXIT REQUIREMENTS</b>	
EXIT ACCESS (1016 & TABLE 1006.3.1)	
NO. OF EXITS REQUIRED: 4	
NO. OF EXITS FURNISHED: 4	
MEANS OF EGRESS WIDTH (TABLE 1005.3.2)	
EXIT WIDTH REQUIRED (.15 INCHES/OCC): 315.3	
EXIT WIDTH FURNISHED: 604	
MAIN EXIT ASSEMBLY (SECTION 1009.2)	
EXIT WIDTH REQUIRED (.15 INCHES/OCC): 157.7	
EXIT WIDTH FURNISHED: 201	
SEE PLAN FOR EXIT WIDTHS	

PLUMBING CALCULATIONS	
<b>PLUMBING REQUIREMENTS USE GROUP A-4</b>	
BASED ON OCCUPANT LOAD FOR FIXED SEATING = 1096 PERSONS	
TOILETS (TABLE 2902.1)	
MEN'S (1 PER 75 OCC.) (548 OCC.): 7R	
WOMEN'S (1 PER 40 OCC.) (548 OCC.): 14R	
LAVATORIES (TABLE 2902.1)	
MEN'S (1 PER 200 OCC.) (548 OCC.): 3R	
WOMEN'S (1 PER 150 OCC.) (548 OCC.): 4R	
DRINKING FOUNTAINS (TABLE 2902.1)	
(1 PER 1000): 2R	
SERVICE SINK (TABLE 2902.1): 1R	
<b>PLUMBING PROVIDED TOTAL</b>	
TOILETS (TABLE 2902.1)	
MEN'S - 5 W.C. 5 URINALS PROVIDED	
WOMEN'S - 14 PROVIDED	
OFFICE/REF: 3 UNISEX PROVIDED	
LAVATORIES (TABLE 2902.1)	
MEN'S - 4 PROVIDED	
WOMEN'S - 5 PROVIDED	
OFFICE/REF: 3 UNISEX PROVIDED	
SHOWERS	
MEN'S - 2 PROVIDED	
WOMEN'S - 2 PROVIDED	
UNISEX - 1 PROVIDED	
DRINKING FOUNTAINS (TABLE 2902.1)	
4 PROVIDED	
SERVICE SINK (TABLE 2902.1): 1 PROVIDED	

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**CODE PLAN - LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"

SHEET TITLE : CODE PLAN - LOWER LEVEL

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE : 9/18/24

REVISED DATE :

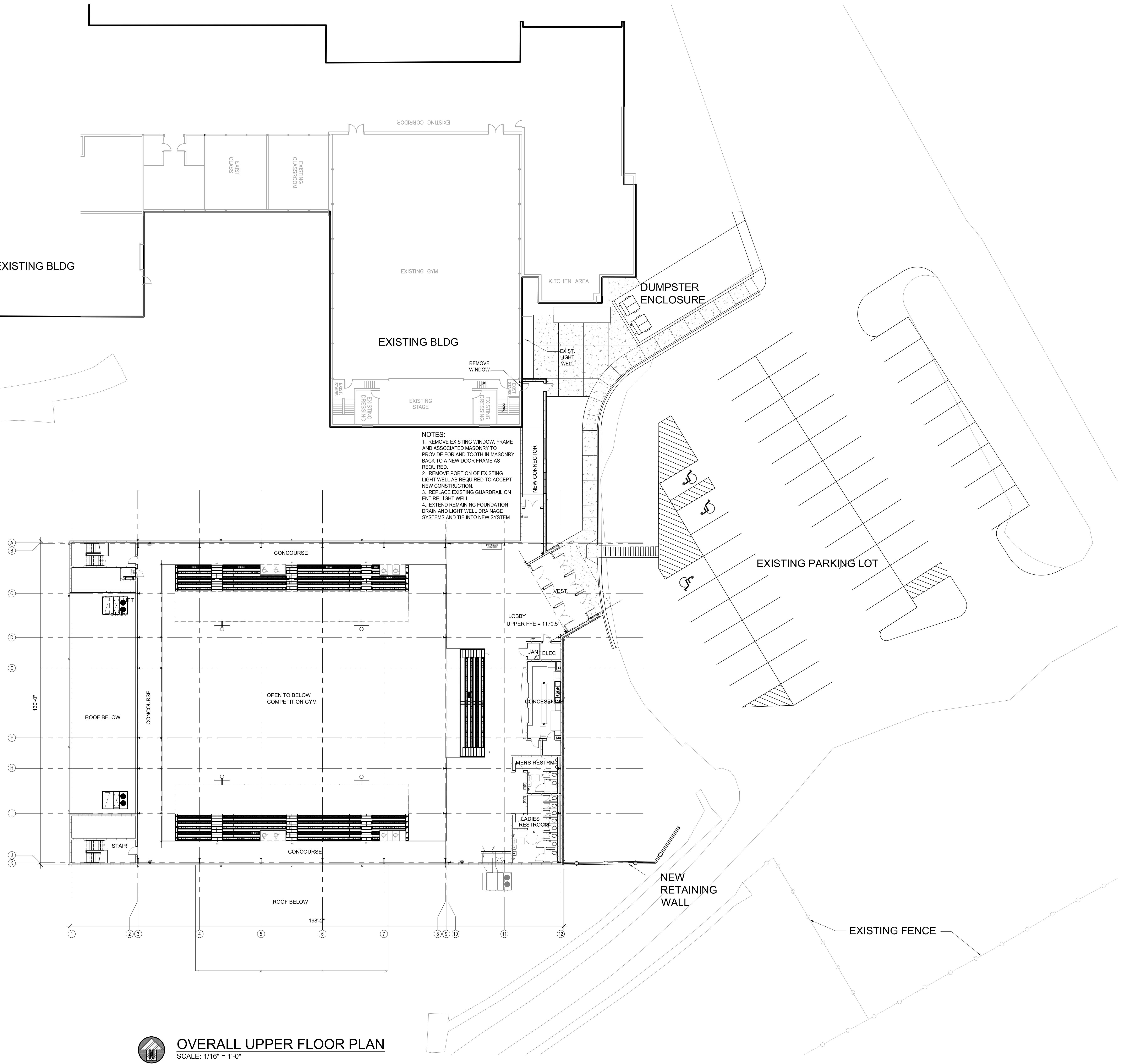
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REVISED DATE :

SHEET NO. : **G1.2**



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 - Wednesday, September 18, 2024 2:50:46 PM



NOTES:  
 1. REMOVE EXISTING WINDOW, FRAME AND ASSOCIATED MASONRY TO PROVIDE FOR AND TOOTH IN MASONRY BACK TO A NEW DOOR FRAME AS REQUIRED.  
 2. REMOVE PORTION OF EXISTING LIGHT WELL AS REQUIRED TO ACCEPT NEW CONSTRUCTION.  
 3. REPLACE EXISTING GUARDRAIL ON ENTIRE LIGHT WELL.  
 4. EXTEND REMAINING FOUNDATION DRAIN AND LIGHT WELL DRAINAGE SYSTEMS AND TIE INTO NEW SYSTEM.

**OVERALL UPPER FLOOR PLAN**  
 SCALE: 1/16" = 1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
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**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA



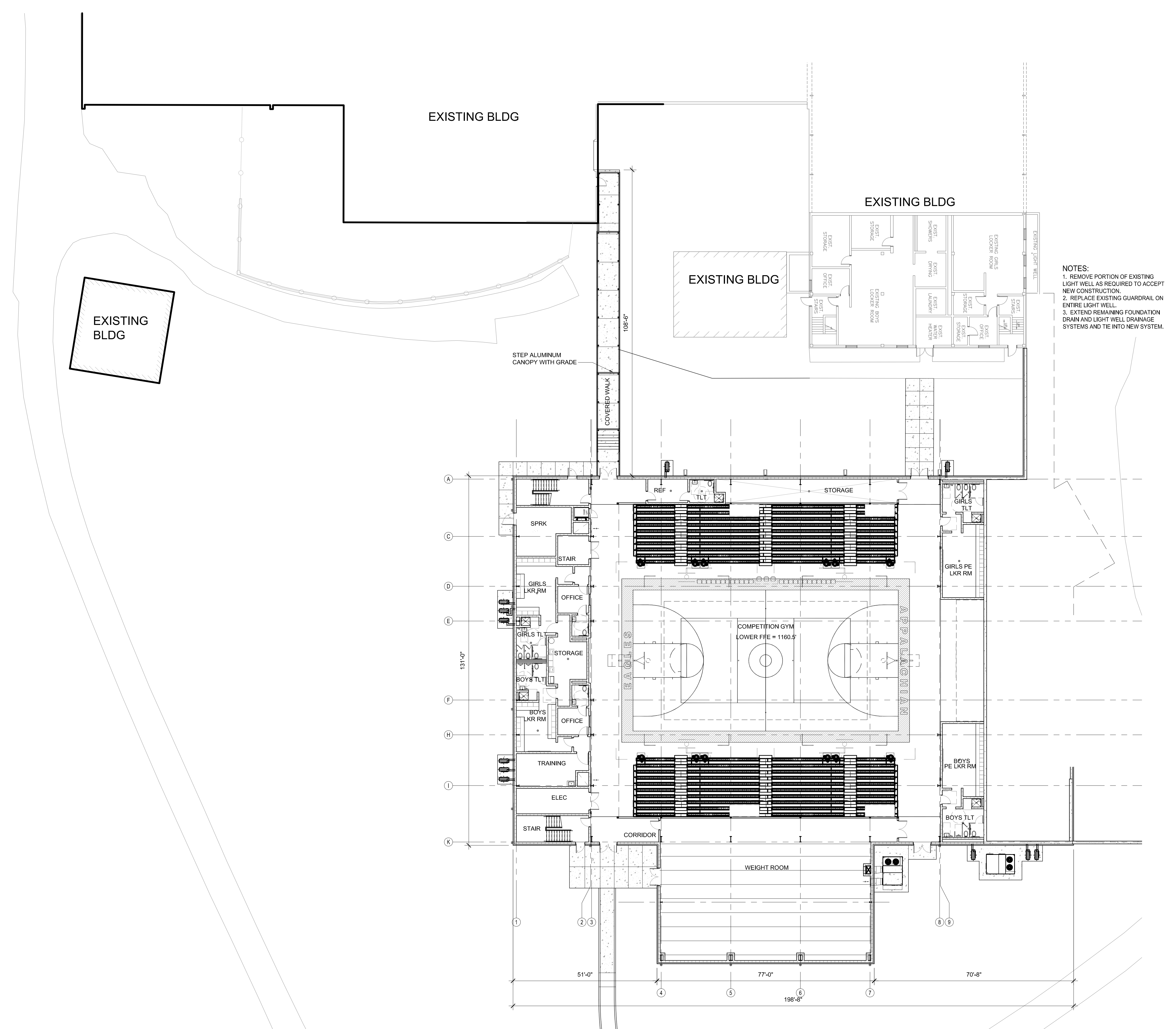
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SHEET TITLE : OVERALL UPPER PLAN  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **A0.1**



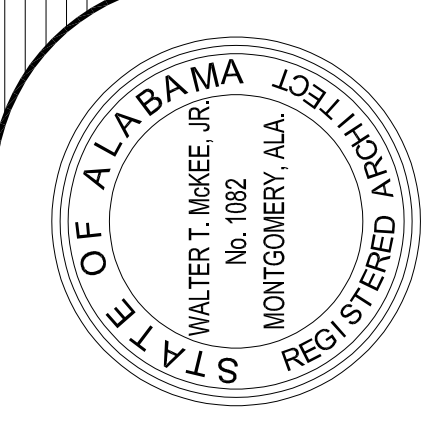
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- Wednesday, September 18, 2024 3:02:07 PM



NOTES:  
1. REMOVE PORTION OF EXISTING LIGHT WELL AS REQUIRED TO ACCEPT NEW CONSTRUCTION.  
2. REPLACE EXISTING GUARDRAIL ON ENTIRE LIGHT WELL.  
3. EXTEND REMAINING FOUNDATION DRAIN AND LIGHT WELL DRAINAGE SYSTEMS AND TIE INTO NEW SYSTEM.

**OVERALL LOWER FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
FOR THE  
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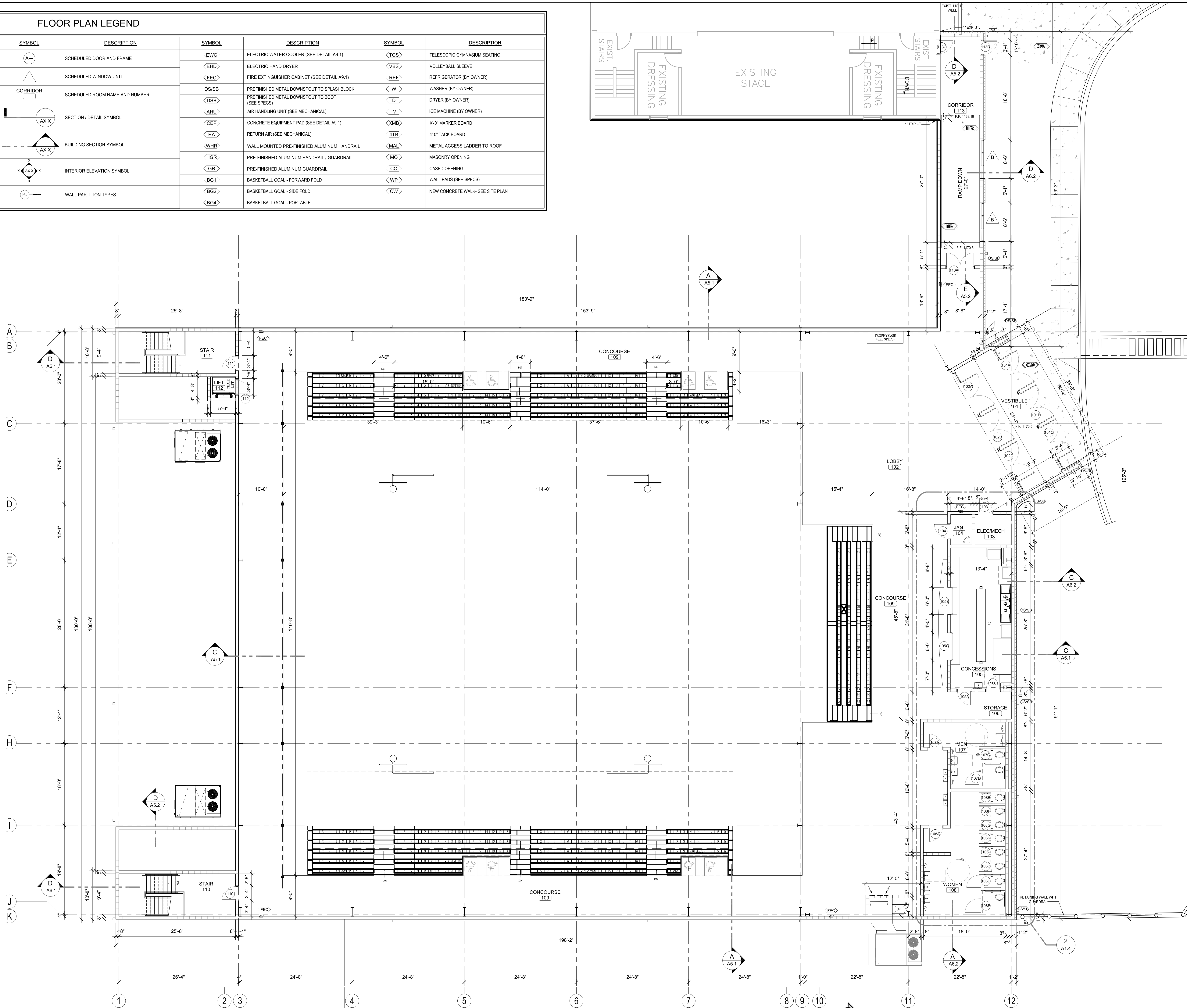
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MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A0.2**

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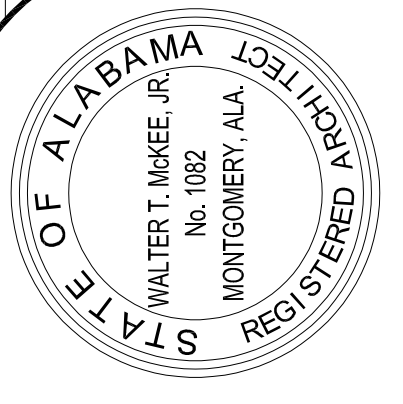


FLOOR PLAN LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SCHEDULED DOOR AND FRAME		ELECTRIC WATER COOLER (SEE DETAIL A9.1)		TELESCOPIC GYMNASIUM SEATING
	SCHEDULED WINDOW UNIT		ELECTRIC HAND DRYER		VOLLEYBALL SLEEVE
	SCHEDULED ROOM NAME AND NUMBER		FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)		REFRIGERATOR (BY OWNER)
	SECTION / DETAIL SYMBOL		PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK		WASHER (BY OWNER)
	BUILDING SECTION SYMBOL		PREFINISHED METAL DOWNSPOUT TO BOOT (SEE SPECS)		DRYER (BY OWNER)
	INTERIOR ELEVATION SYMBOL		AIR HANDLING UNIT (SEE MECHANICAL)		ICE MACHINE (BY OWNER)
	WALL PARTITION TYPES		CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)		4'-0" TACK BOARD
			RETURN AIR (SEE MECHANICAL)		METAL ACCESS LADDER TO ROOF
			WALL MOUNTED PRE-FINISHED ALUMINUM HANDRAIL		MASONRY OPENING
			PRE-FINISHED ALUMINUM HANDRAIL / GUARDRAIL		CASED OPENING
			PRE-FINISHED ALUMINUM GUARDRAIL		WALL PADS (SEE SPECS)
			BASKETBALL GOAL - FORWARD FOLD		NEW CONCRETE WALK- SEE SITE PLAN
			BASKETBALL GOAL - SIDE FOLD		
			BASKETBALL GOAL - PORTABLE		



TRUE NORTH  
**FLOOR PLAN - MAIN LEVEL**  
 SCALE: 1/8" = 1'-0"

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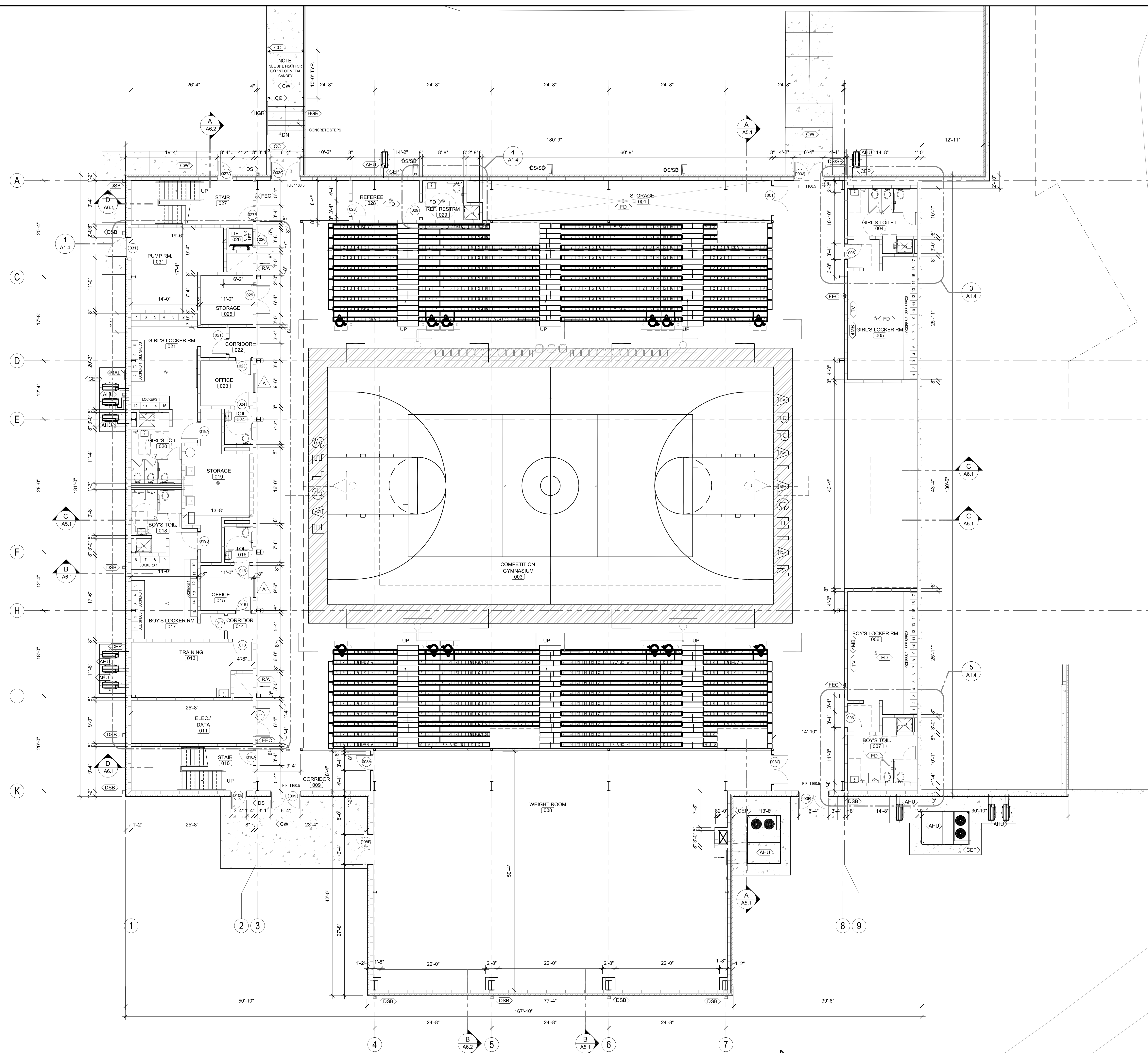
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 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **A1.1**

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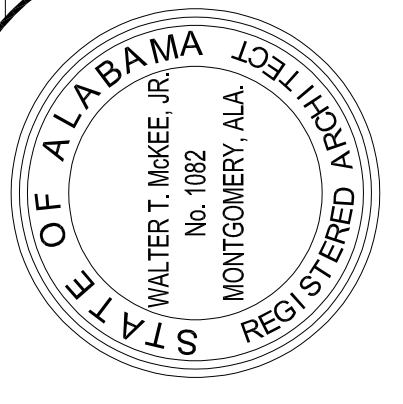


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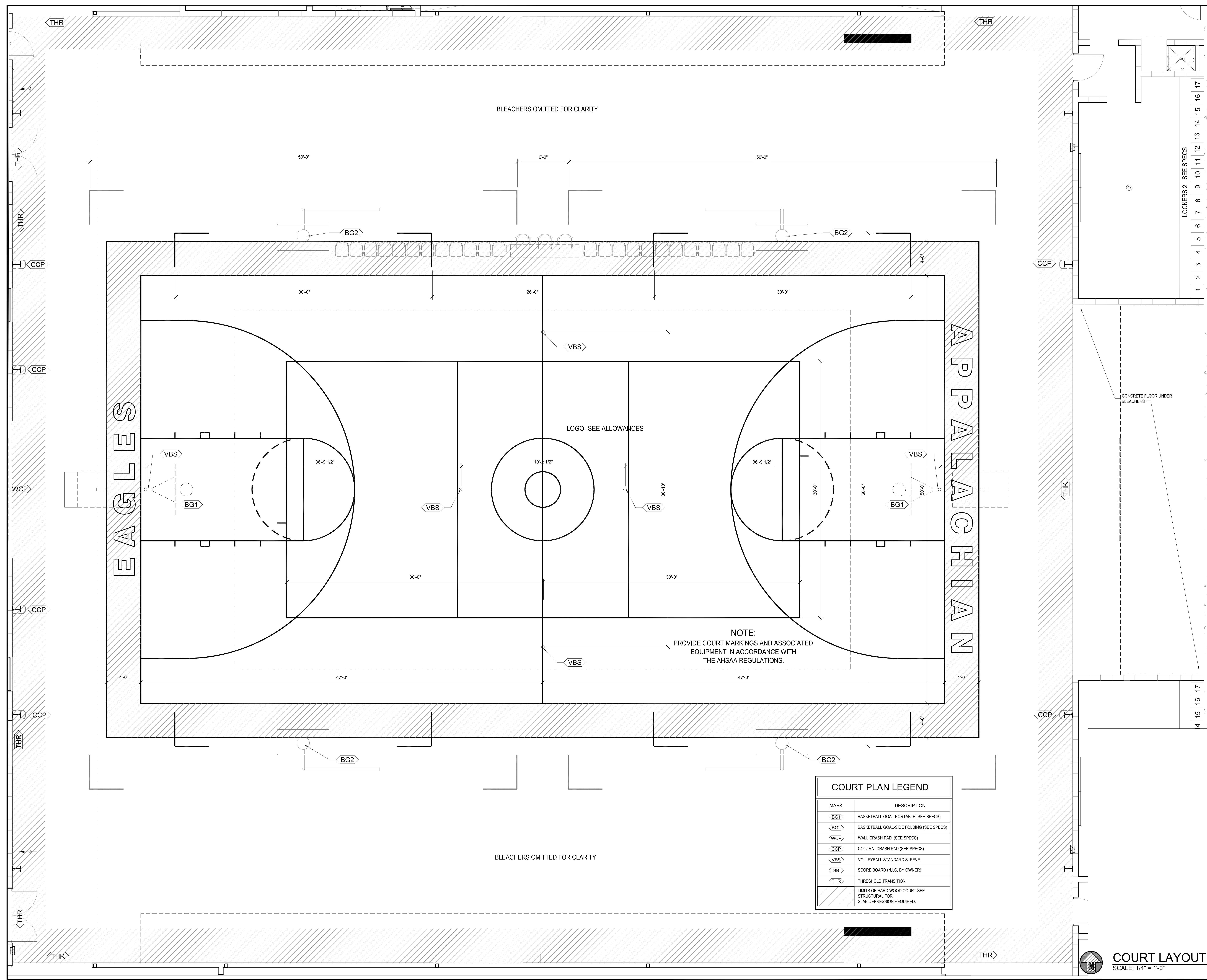


SHEET TITLE : FLOOR PLAN - LOWER LEVEL  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

TRUE NORTH  
**FLOOR PLAN - LOWER LEVEL**  
SCALE: 1/8" = 1'-0"

SHEET NO. : **A1.2**

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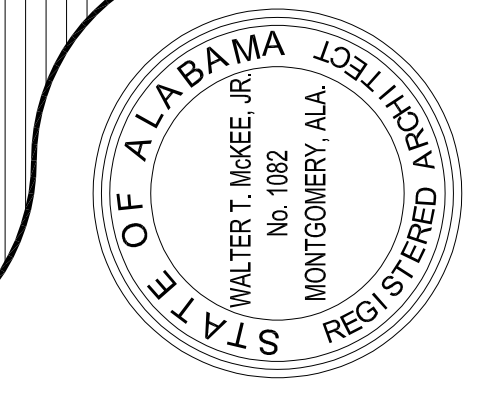


MARK	DESCRIPTION
◁BG1	BASKETBALL GOAL-PORTABLE (SEE SPECS)
◁BG2	BASKETBALL GOAL-SIDE FOLDING (SEE SPECS)
◁WCP	WALL CRASH PAD (SEE SPECS)
◁CCP	COLUMN CRASH PAD (SEE SPECS)
◁VBS	VOLLEYBALL STANDARD SLEEVE
◁SB	SCORE BOARD (N.I.C. BY OWNER)
◁THR	THRESHOLD TRANSITION
▨	LIMITS OF HARD WOOD COURT SEE STRUCTURAL FOR SLAB DEPRESSION REQUIRED.

LOCKERS 2 SEE SPECS  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CONCRETE FLOOR UNDER BLEACHERS

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
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 ONEONTA, ALABAMA



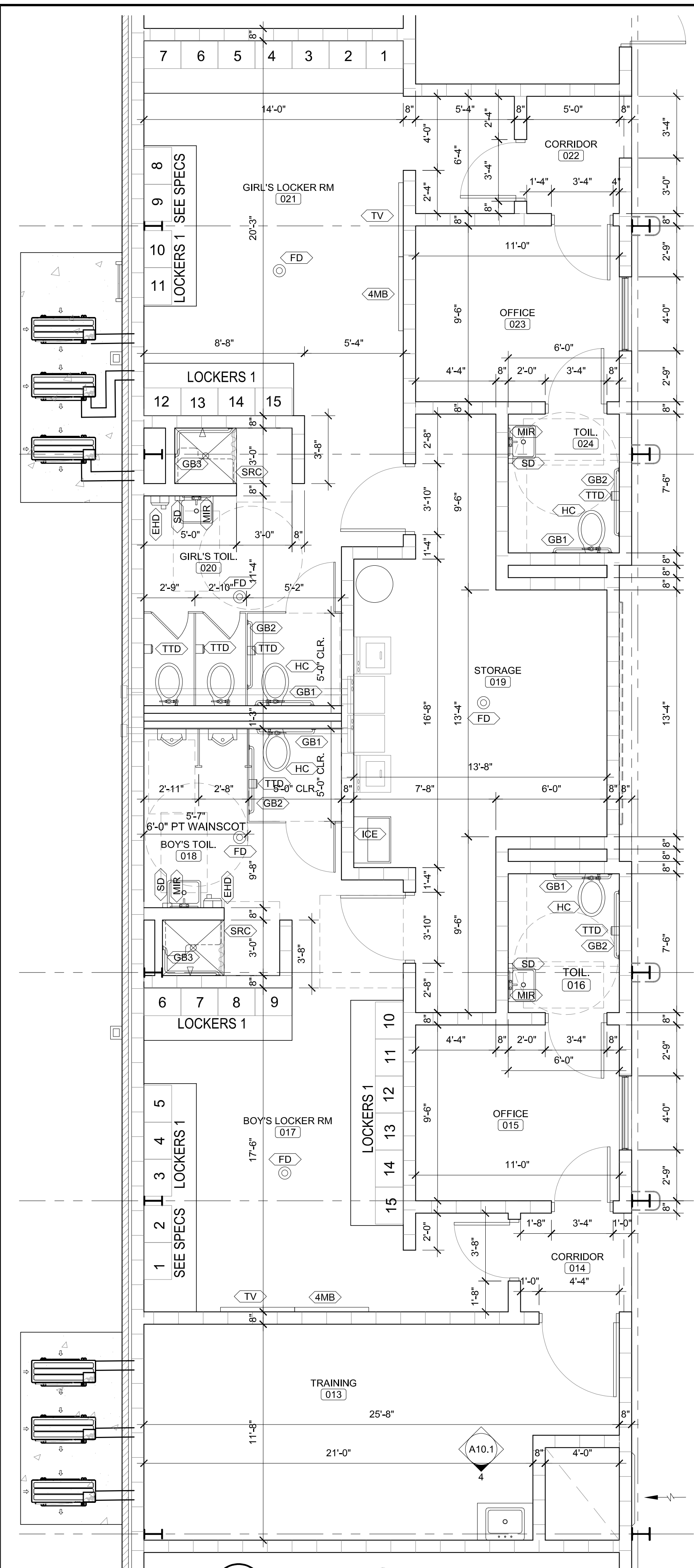
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 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : COURT LAYOUT  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

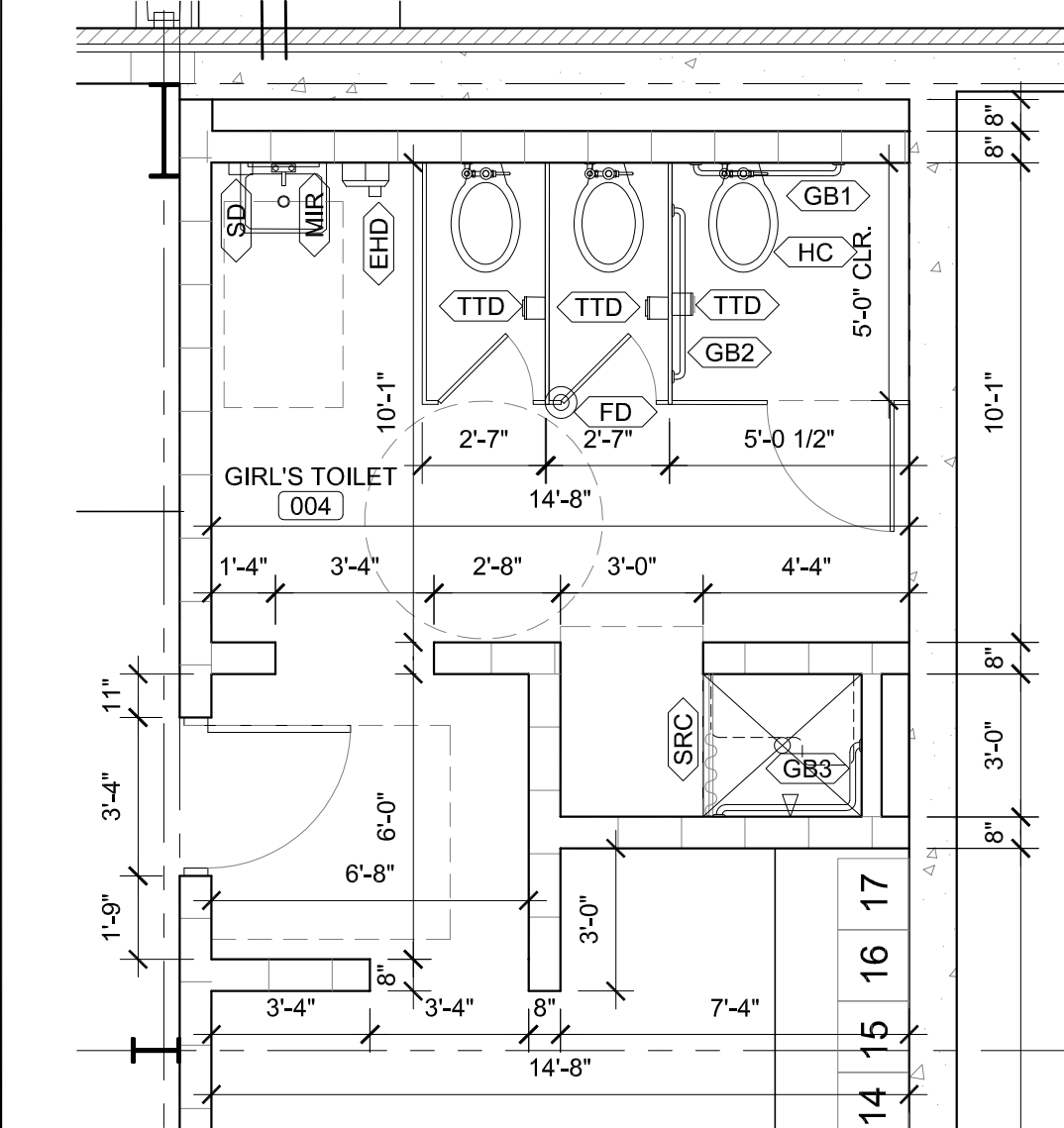
**COURT LAYOUT**  
 SCALE: 1/4" = 1'-0"

SHEET NO. : **A1.3**

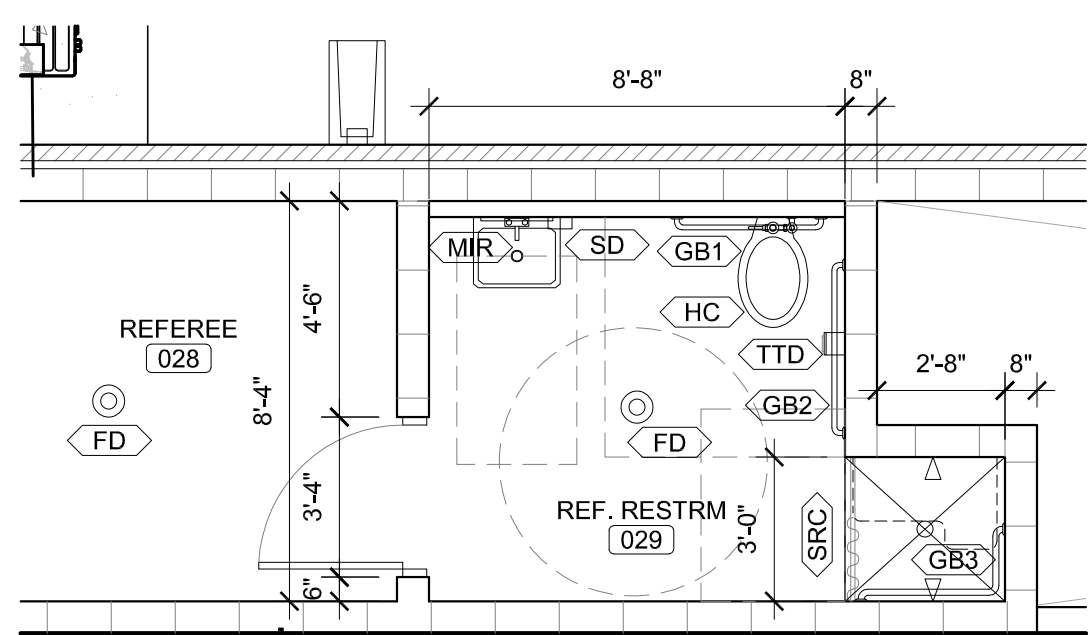




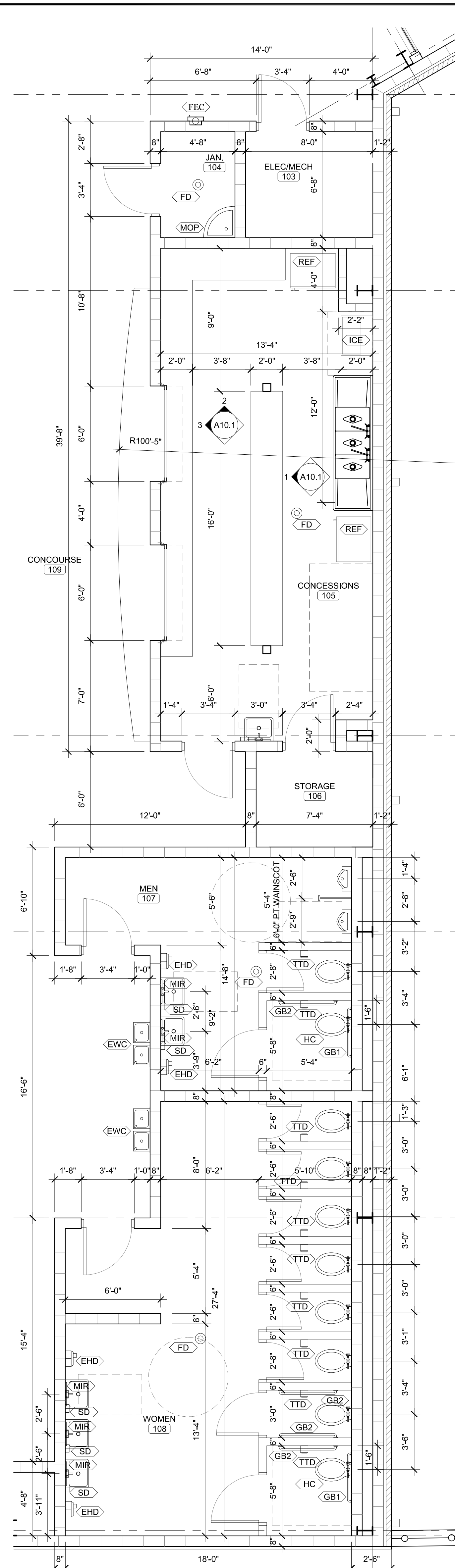
**1 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"



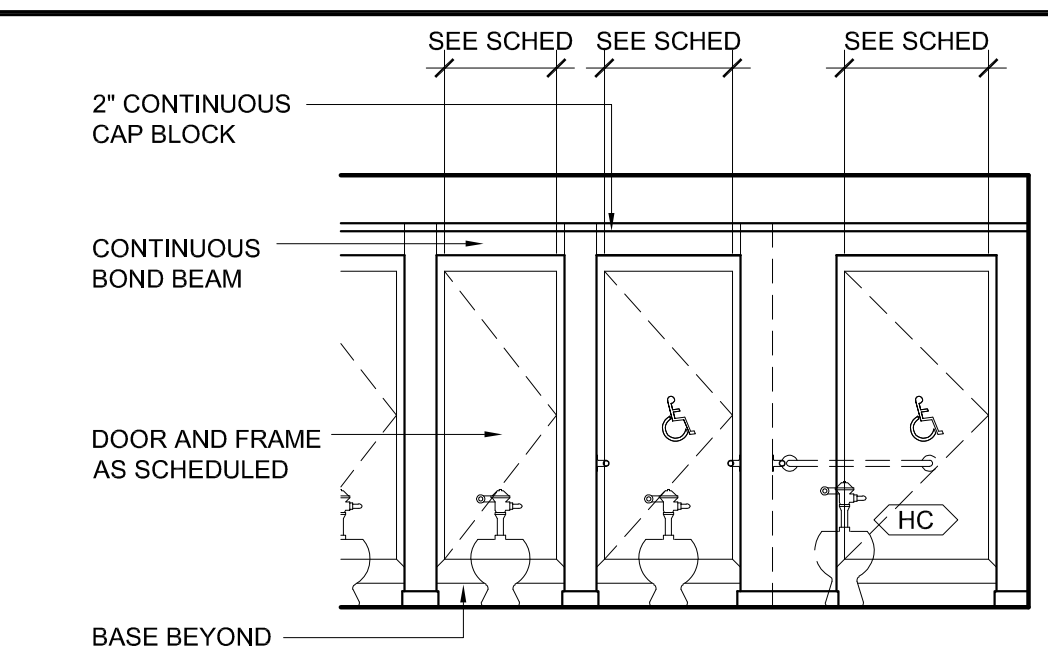
**3 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"



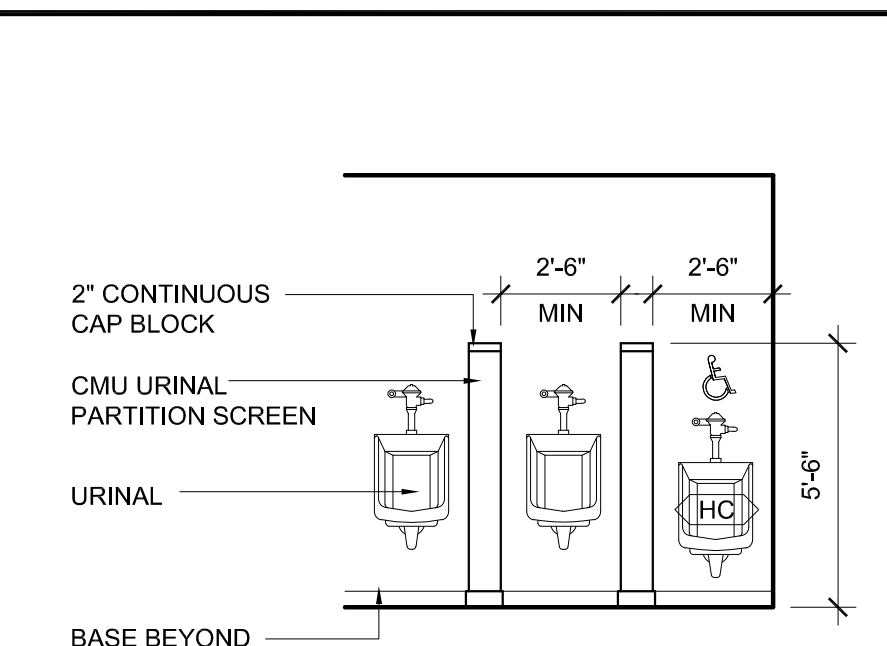
**4 ENLARGED PLAN**  
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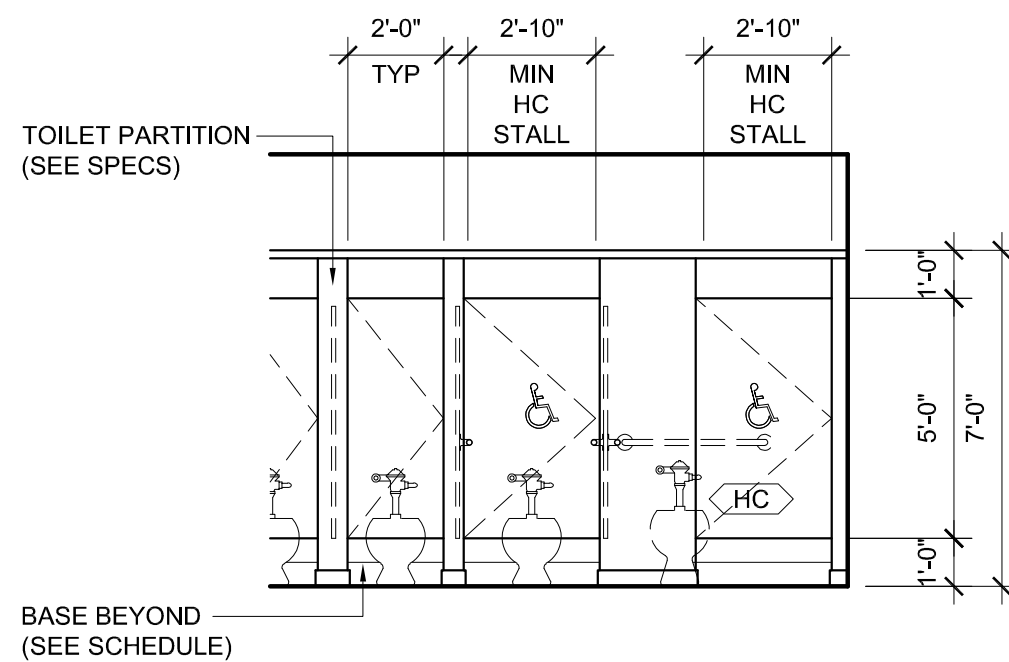
**2 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"



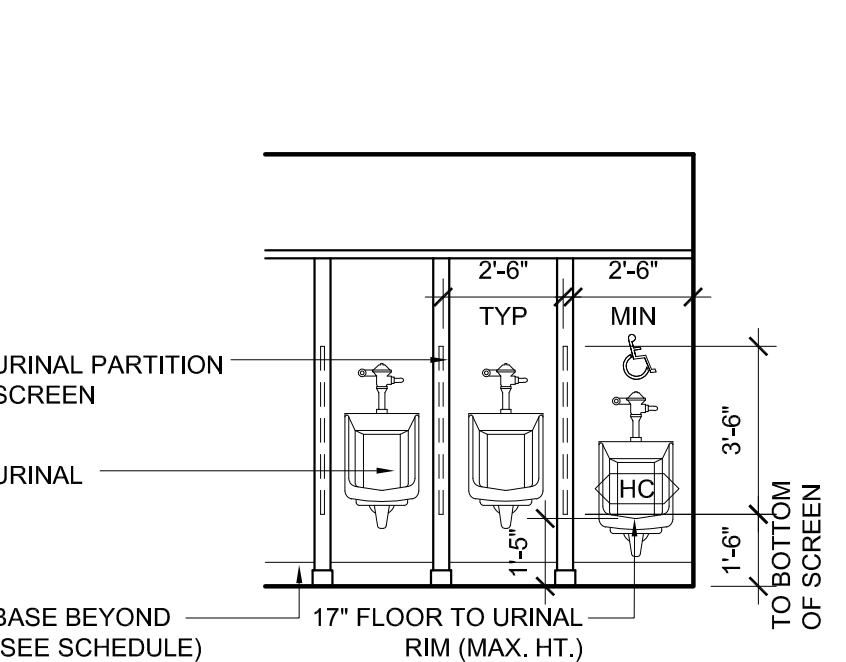
**TYP. CMU TOILET SCREEN PARTITION ELEVATION**  
SCALE: 1/4" = 1'-0"



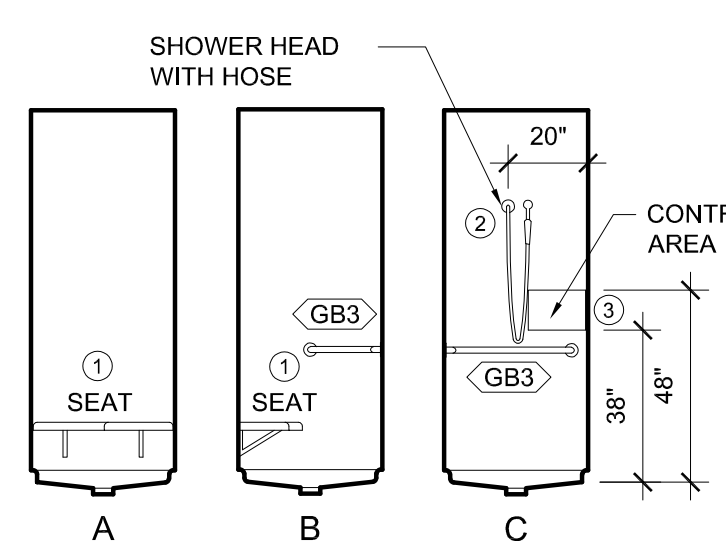
**TYP. CMU URINAL SCREEN PARTITION ELEVATION**  
SCALE: 1/4" = 1'-0"



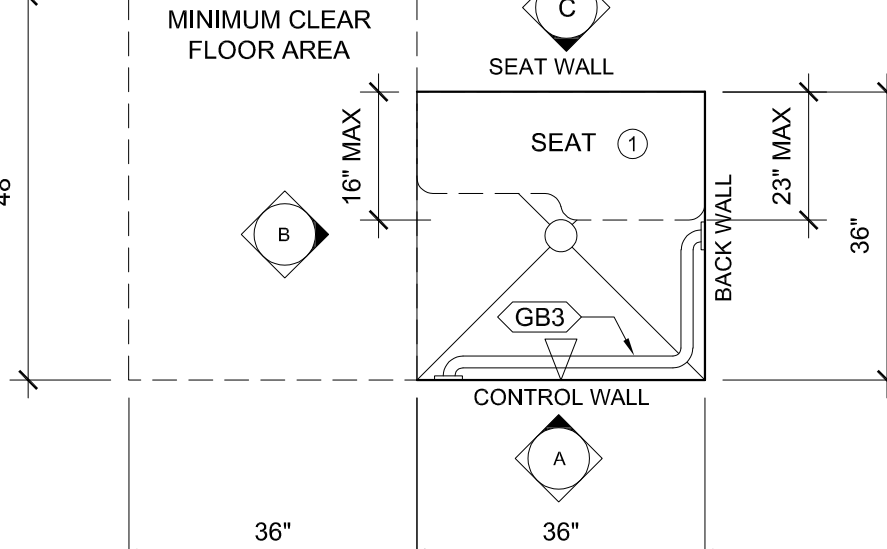
**TYP. TOILET SCREEN PARTITION ELEVATION**  
SCALE: 1/4" = 1'-0"



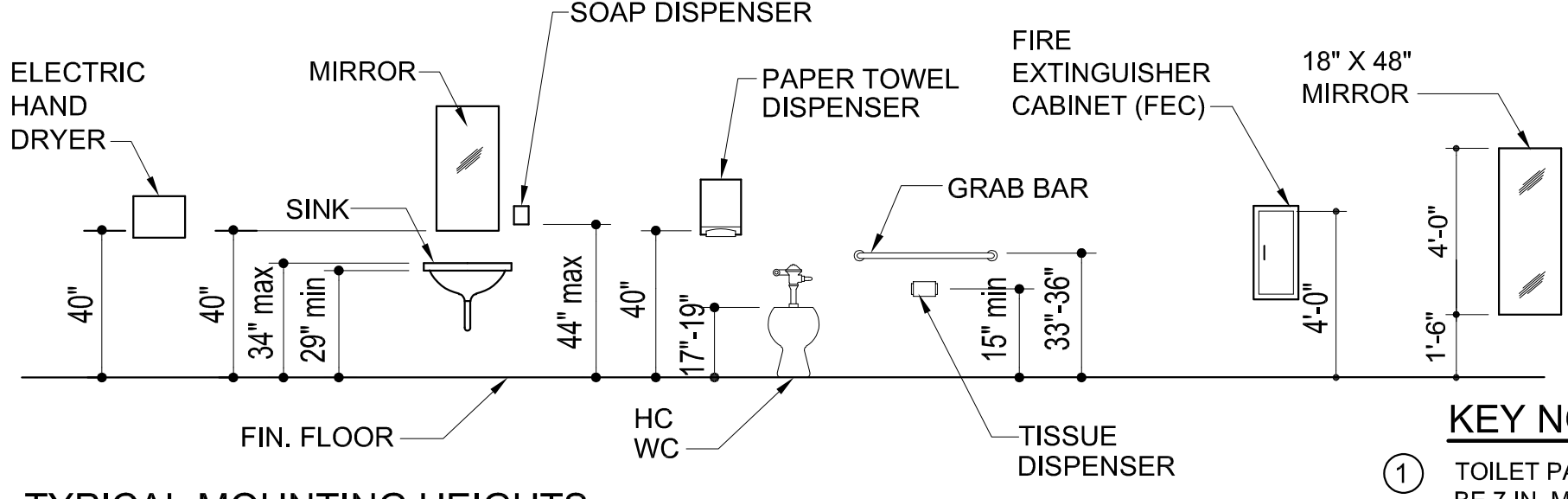
**TYP. URINAL SCREEN PARTITION ELEVATION**  
SCALE: 1/4" = 1'-0"



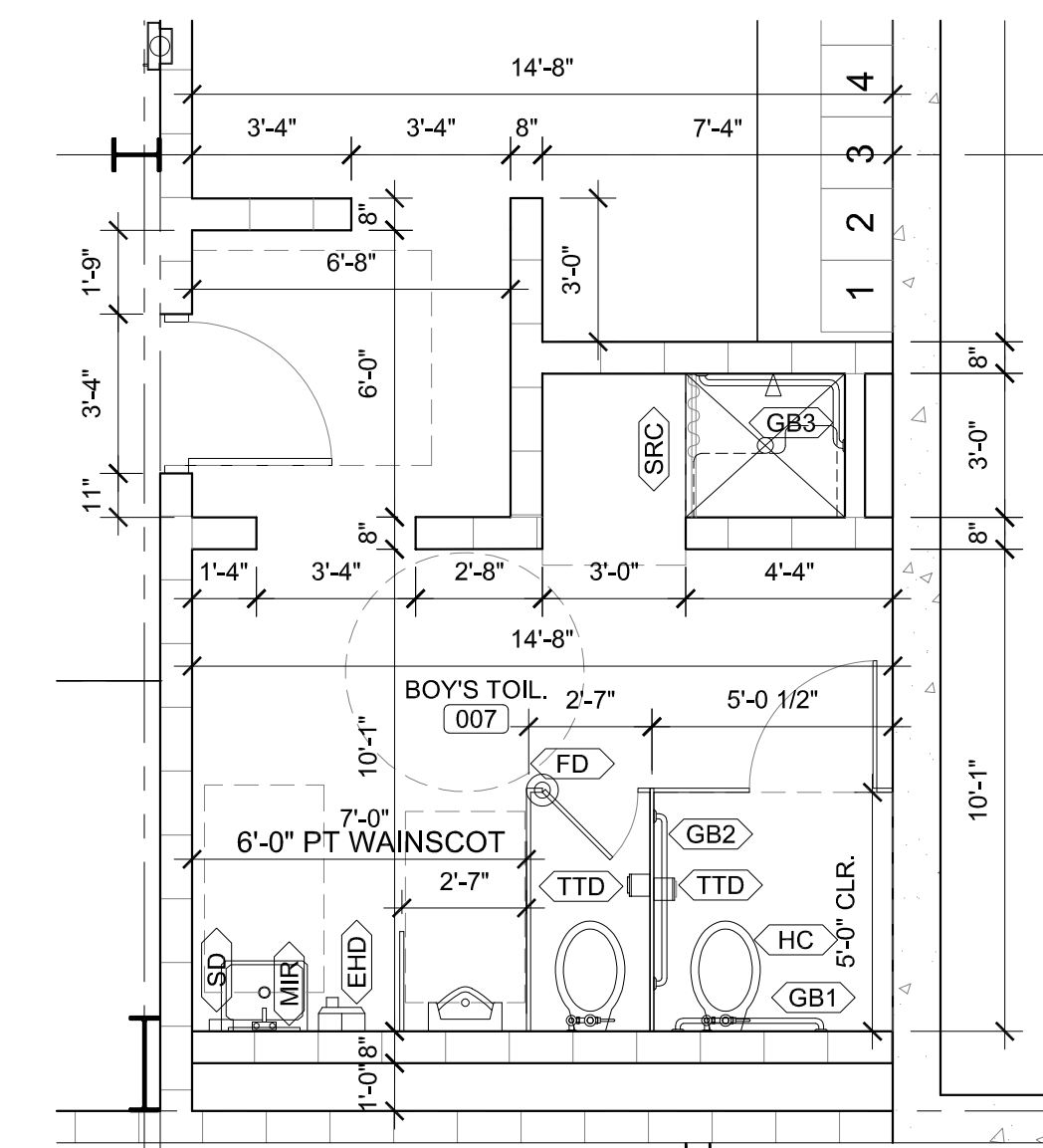
**ACCESSIBLE SHOWER ELEVATIONS**  
SCALE: 1/4" = 1'-0"



**ACCESSIBLE SHOWER PLAN**  
SCALE: 1/2" = 1'-0"



**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.

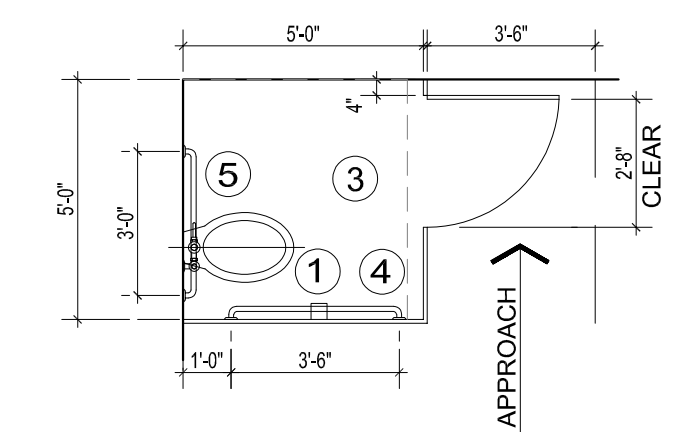


**5 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"

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	CORNER GRAB BAR AND IS TO BE 33"-36" AFF (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
SRC	40" LONG SHOWER ROD AND CURTAIN TO BE MOUNTED 84" AFF
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)

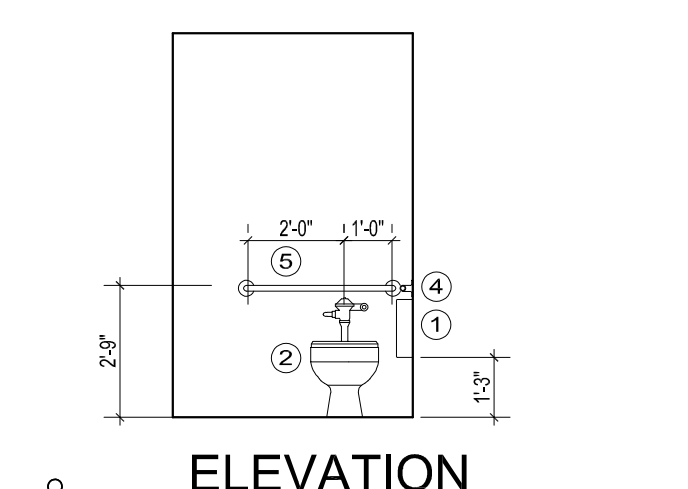
FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
CORRIDOR	SCHEDULED ROOM NAME AND NUMBER
P	WALL PARTITION TYPES
X AX.X X	INTERIOR ELEVATION SYMBOL
WH	WATER HEATER - (SEE PLUMBING)
REF	REFRIGERATOR (BY OWNER)
W	WASHER (BY OWNER)
D	DRYER (BY OWNER)
ICE	ICE MACHINE (BY OWNER)

ACCESSIBLE SHOWER NOTES	
1	A FOLDING SEAT SHALL BE PROVIDED IN EACH ACCESSIBLE SHOWER STALL AND SHALL BE MOUNTED 17"-19" FROM THE SHOWER FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE SHOWER STALL (SEE SPECS) SEAT SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
2	A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED (SEE SPECS)
3	ALL CONTROLS, SHOWER HEADS ETC SHALL BE LOCATED ON OPPOSITE WALL FROM SHOWER SEAT (SEE ELEVATIONS FOR MOUNTING HEIGHTS)
4	ONE ACCESSIBLE SHOWER STALL SHALL BE PROVIDED AT EACH TOILET/SHOWER ROOM (SEE PLAN FOR LOCATION). SECOND STALL TO BE A STANDARD SHOWER WITH A FIXED SHOWER HEAD, GRAB BARS AND SHOWER SEAT WILL NOT BE REQUIRED.

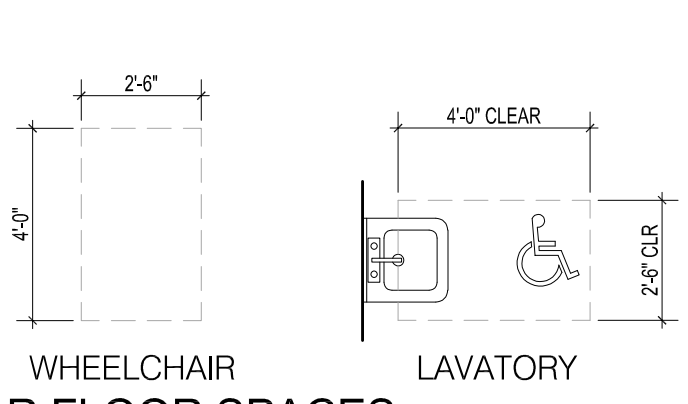


**PLAN WHEELCHAIR ACCESSIBLE TOILET**  
SCALE: 1/4" = 1'-0"

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"



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

**KEY NOTES**

- 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.
- WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
- 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.
- A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
- 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.
- 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.
- 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.
- WHERE MIN. AND MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.

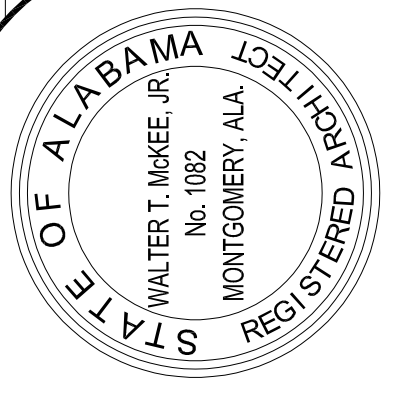
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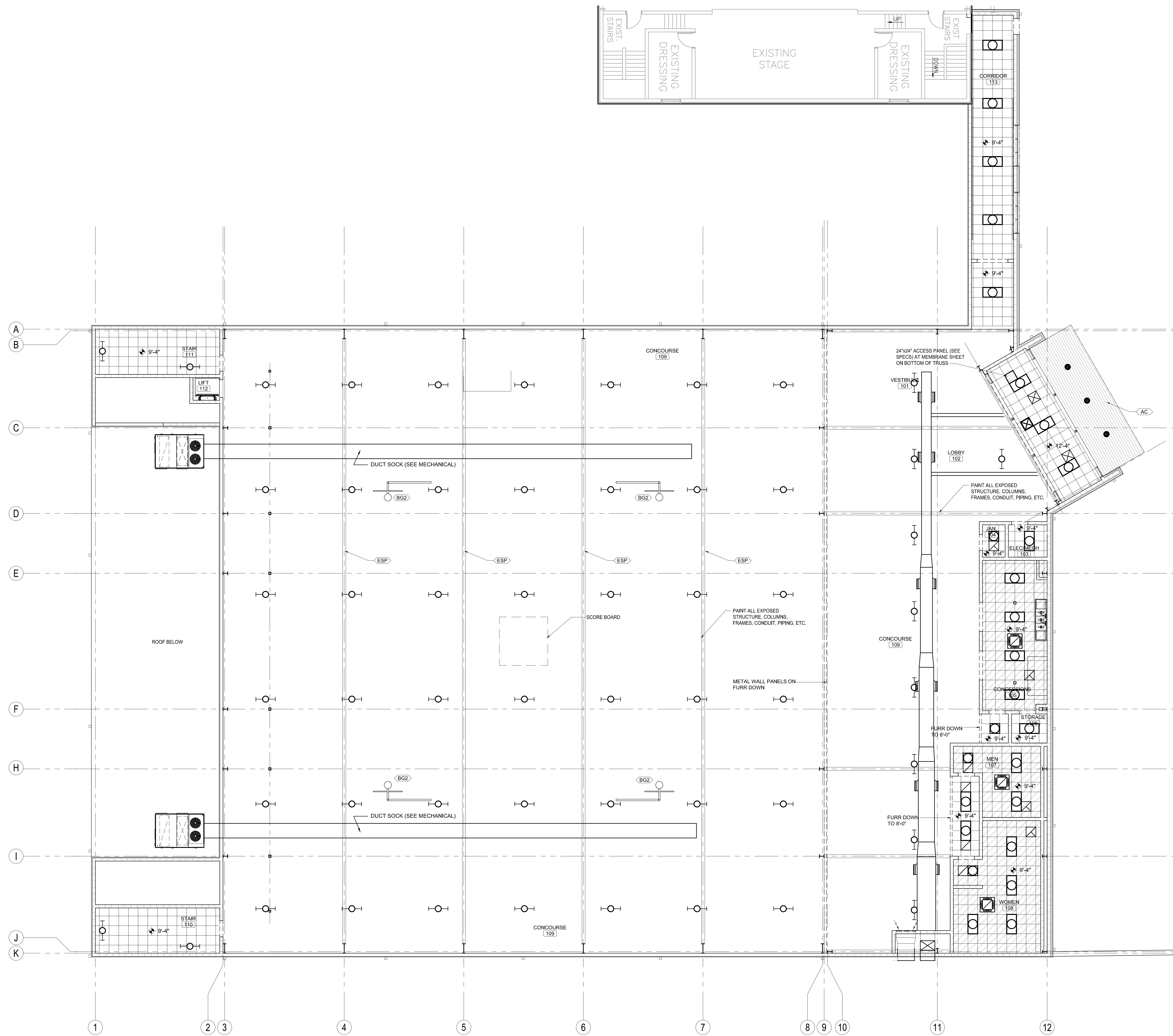
MCKEE and ASSOCIATES ARCHITECTS, INC.

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SHEET TITLE : ENLARGED PLANS AND DETAILS  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A1.4**

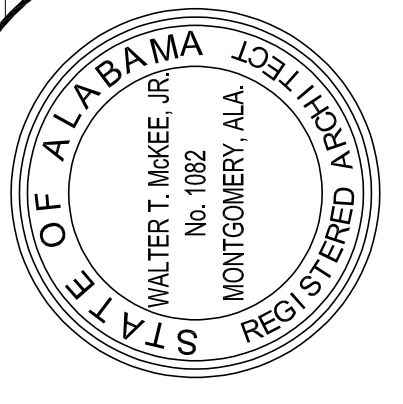


REFLECTED CEILING PLAN - PART "X"  
SCALE: 1/8" = 1'-0"

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SHEET TITLE : REFLECTED CEILING PLAN  
MAIN LEVEL

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE : 9/18/24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **A2.1**



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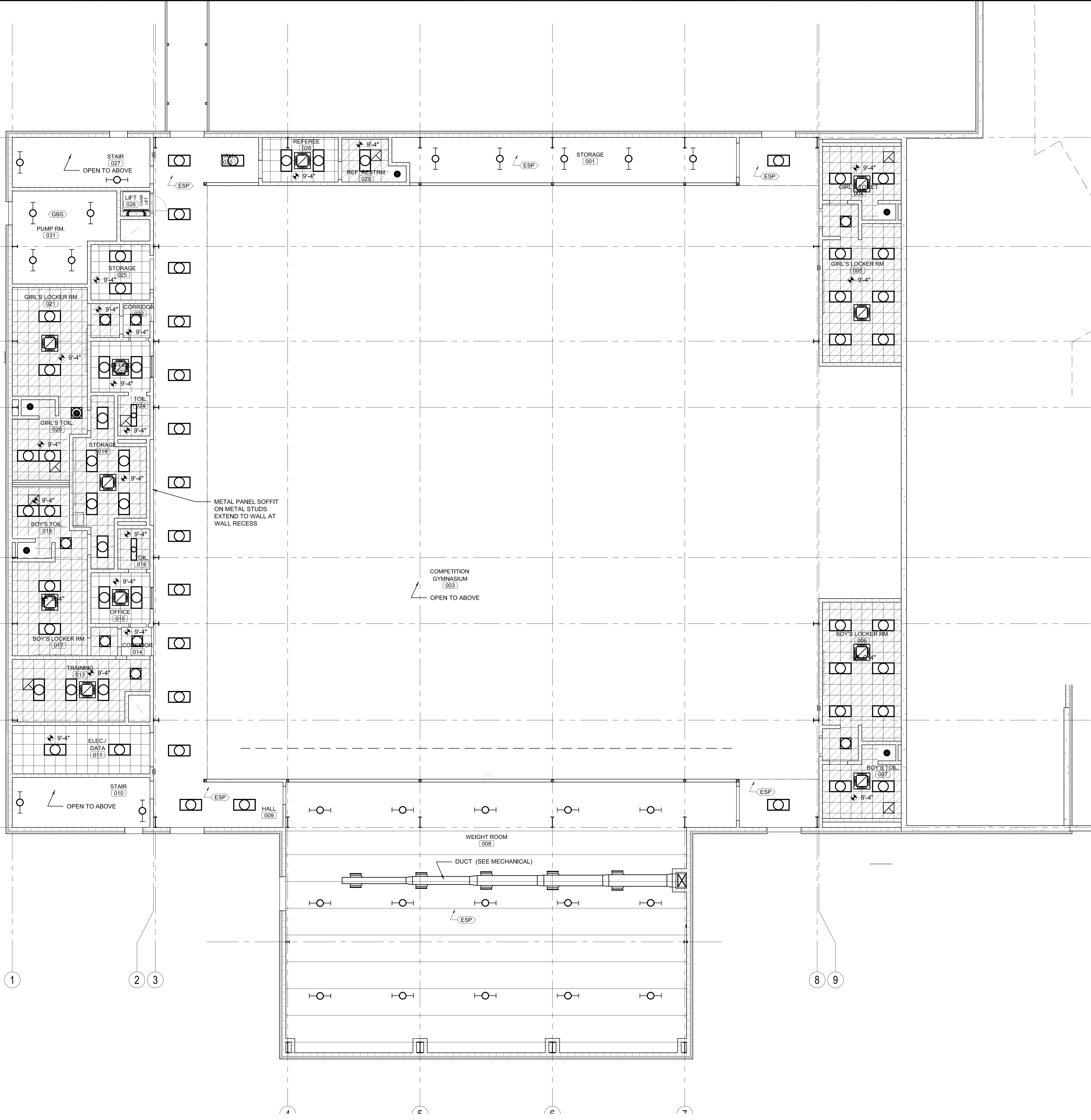
MCKEE and ASSOCIATES  
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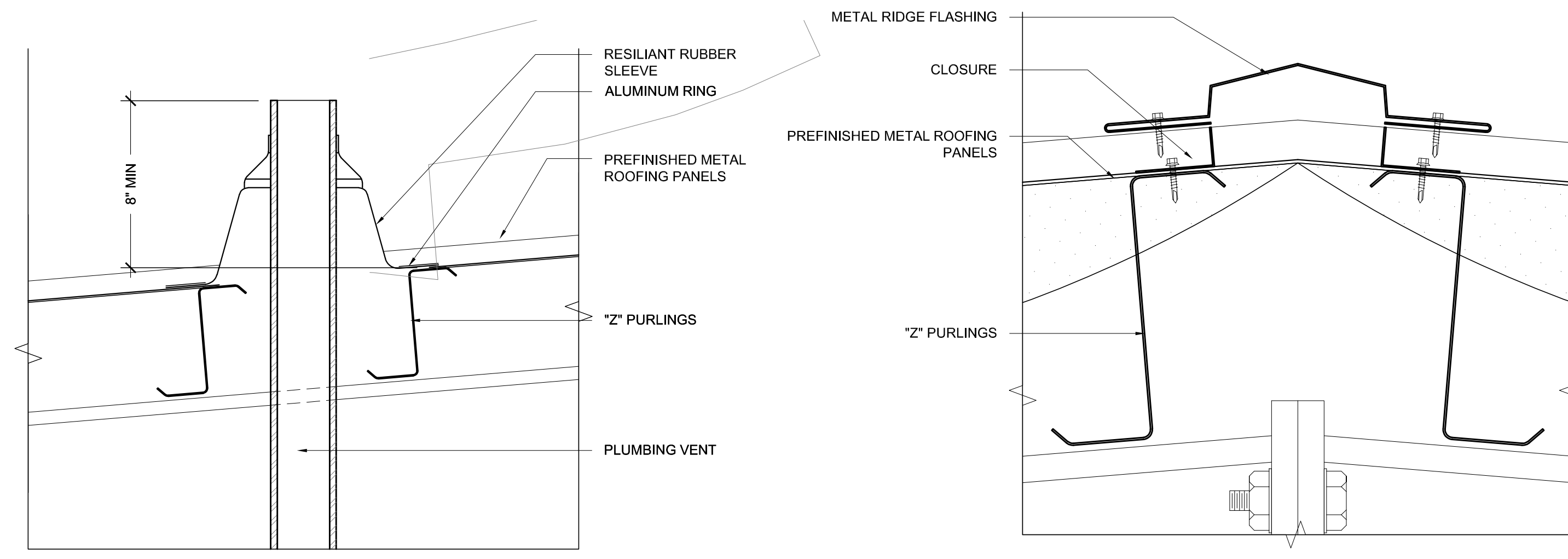


SYMBOL	DESCRIPTION
↑ 0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
[Grid Symbol]	2x2 LAY-IN ACOUSTICAL CEILING
[Grid Symbol]	2x2 VINYL CLAD LAY-IN ACOUSTICAL CEILING
[Grid Symbol]	GYPSUM BOARD (SUSPENDED AS REQUIRED)
[Grid Symbol]	MOISTURE RESISTANT GYPSUM BOARD (SUSPENDED AS REQUIRED)
[Light Symbol]	2x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
[Light Symbol]	1x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
[Light Symbol]	1x4 SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
[Light Symbol]	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
[Grille Symbol]	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
[Grille Symbol]	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
[Grille Symbol]	EXHAUST FAN GRILLE (SEE MECHANICAL)
[ESP]	EXPOSED STRUCTURE - PAINT
[BG2]	BASKETBALL GOAL - SIDE FOLDING
[SLP]	STEEL LINTEL - PAINT
[GBF]	GYPSUM BOARD FURRING
[EDP]	EXPOSED DUCTWORK - PAINT
[GBP]	GYPSUM BOARD - PAINT
[MGBP]	MOISTURE RESISTANT GYPSUM BOARD - PAINT
[AC]	ALUMINUM CANOPY
[GBS]	GYPSUM BOARD ON THE BOTTOM OF STRUCTURE

SHEET TITLE : REFLECTED CEILING PLAN LOWER LEVEL  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **A2.2**



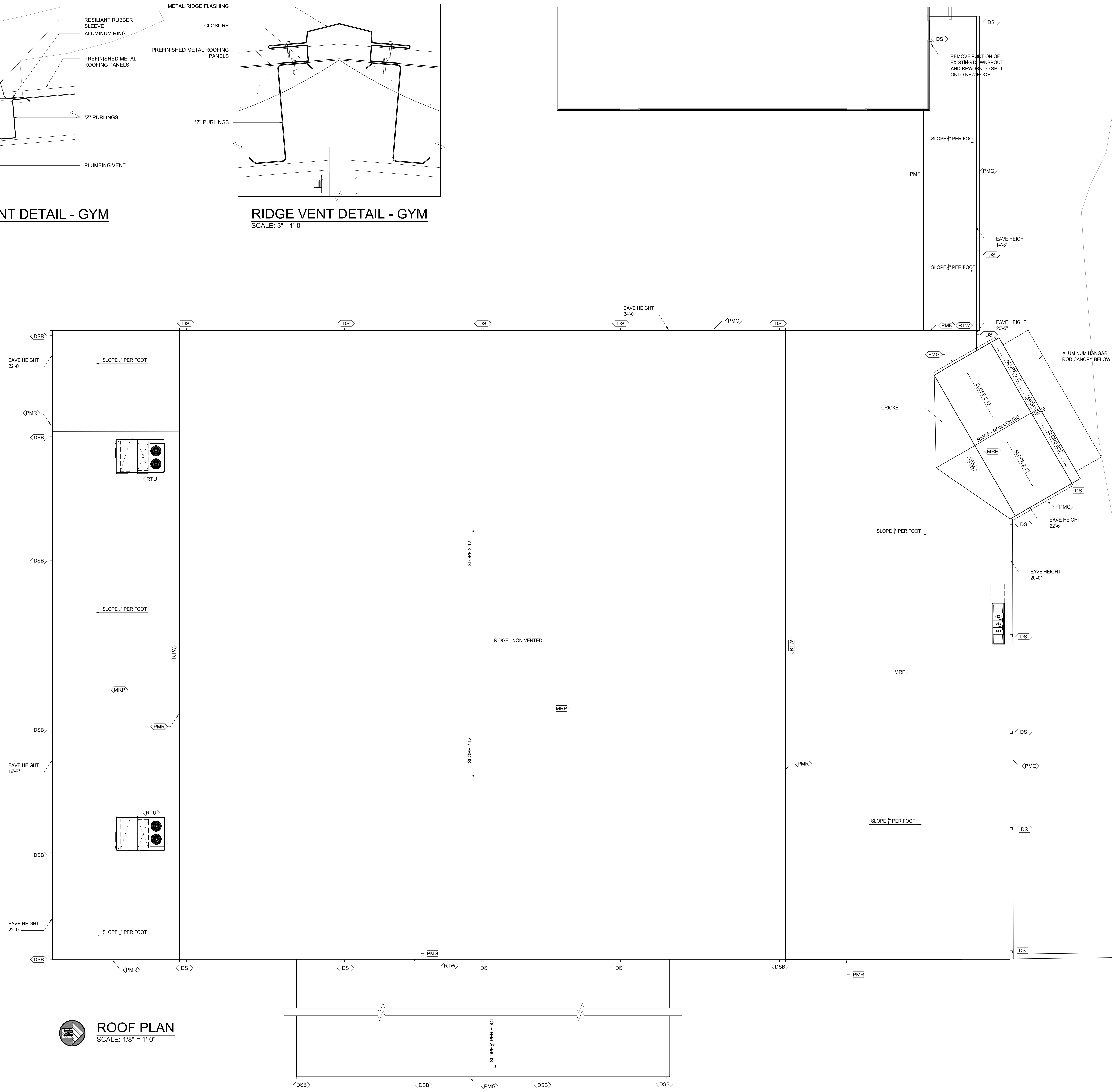
REFLECTED CEILING PLAN - PART "X"  
SCALE: 1/8" = 1'-0"



**TYPICAL PLUMBING VENT DETAIL - GYM**  
SCALE: 1-1/2\"/>

**RIDGE VENT DETAIL - GYM**  
SCALE: 3\"/>

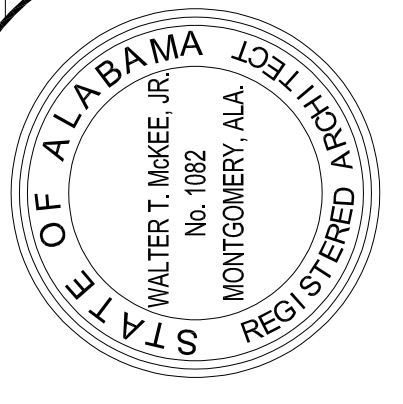
ROOF PLAN LEGEND	
SYMBOL	DESCRIPTION
	METAL ROOF PANELS (SEE SPECS)
	DETAIL SYMBOL
	ROOF TO WALL FLASHING (SEE DETAIL)
	PREFINISHED METAL GUTTER
	ALUMINUM CANOPY
	ROOF TOP UNIT (SEE MECHANICAL)
	PREFINISHED METAL DOWNSPOUT TO SPLASH BLOCK
	PREFINISHED METAL DOWNSPOUT INTO BOOT
	PREFINISHED METAL RAKE
	PREFINISHED METAL FASCIA



**ROOF PLAN**  
SCALE: 1/8\"/>

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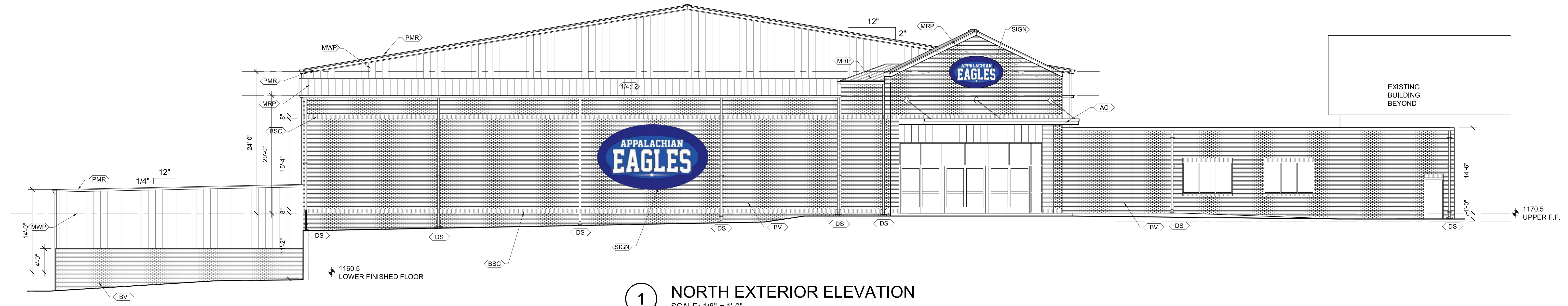


SHEET TITLE : ROOF PLAN AND DETAILS  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

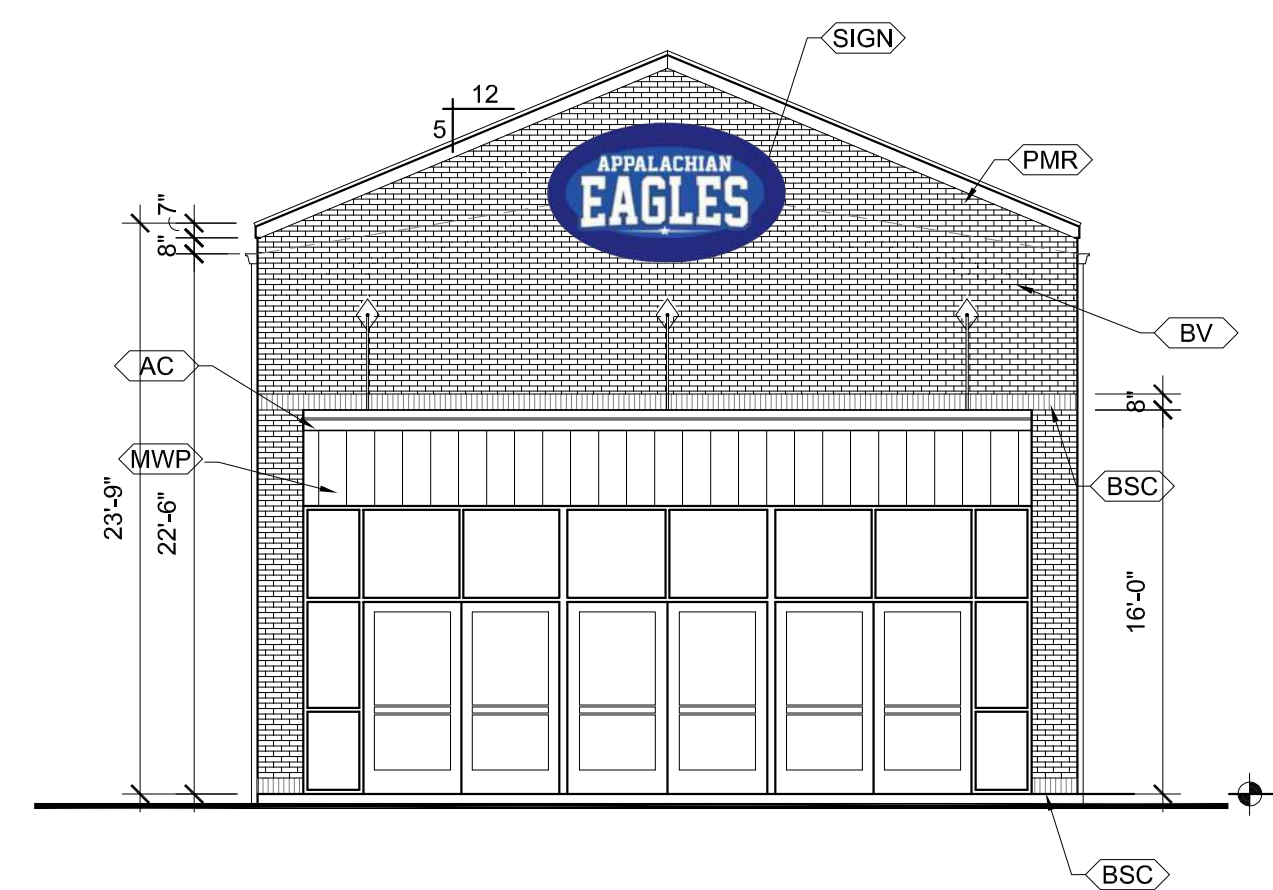
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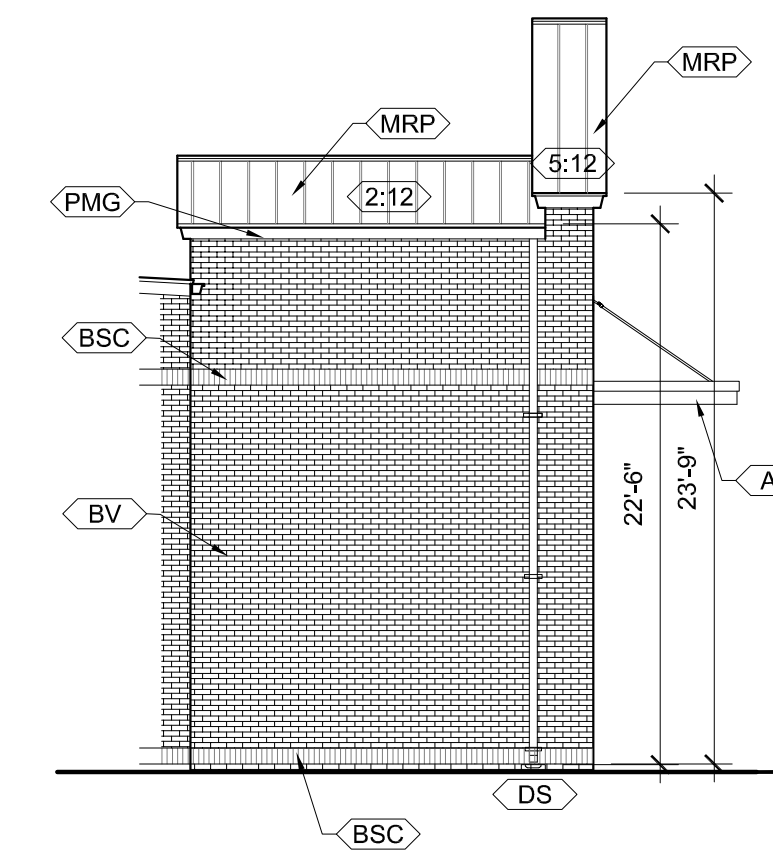




1 NORTH EXTERIOR ELEVATION  
SCALE: 1/8" = 1'-0"

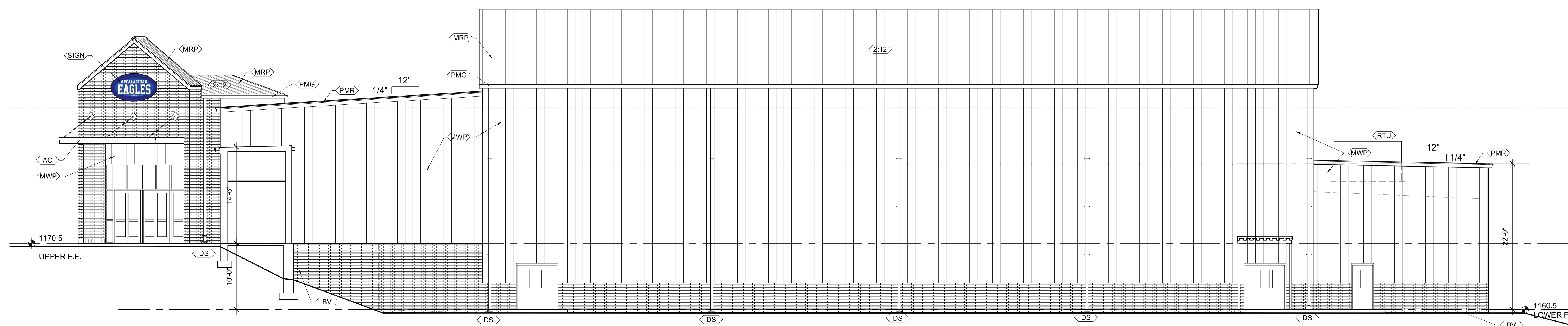


2 NORTH ENTRANCE ELEVATION  
SCALE: 1/8" = 1'-0"



3 EAST EXTERIOR ELEVATION  
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
	BUILDING SECTION SYMBOL
	ALUMINUM CANOPY
	BRICK VENEER
	BRICK VENEER - SOLDIER COURSE
	PREFINISHED METAL DOWNSPOUT
	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
	PREFINISHED METAL DOWNSPOUT TO BOOT
	MASONRY CONTROL JOINT LOCATIONS
	METAL WALL PANELS
	METAL ROOF PANELS
	PREFINISHED METAL GUTTER
	PREFINISHED METAL RAKE TRIM
	PREFINISHED METAL EAVE TRIM
	ROOF TOP UNIT - SEE MECHANICAL
	PRE-LIT LOGO SIGNAGE - SEE ALLOWANCE
	METAL ACCESS LADDER TO ROOF



4 WEST EXTERIOR ELEVATION  
SCALE: 1/8" = 1'-0"

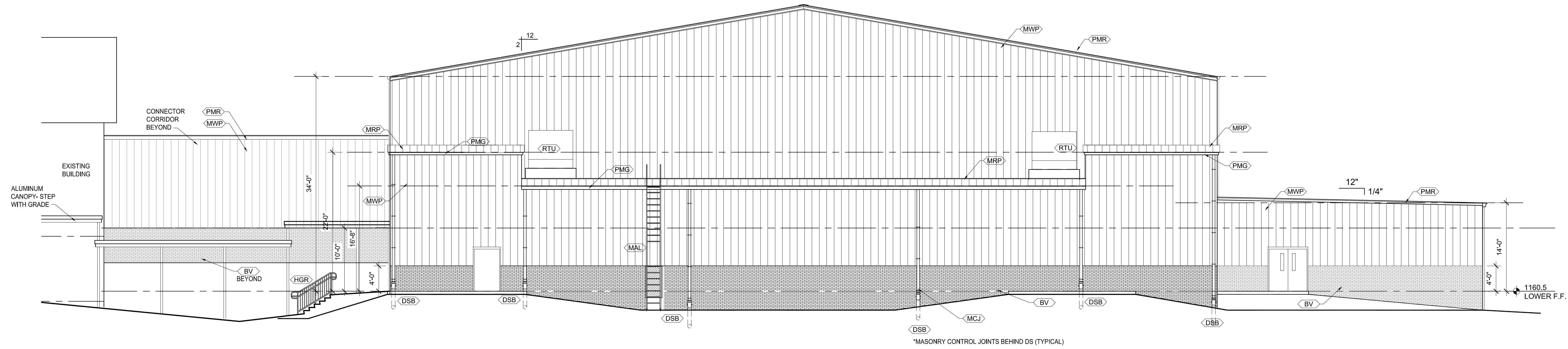
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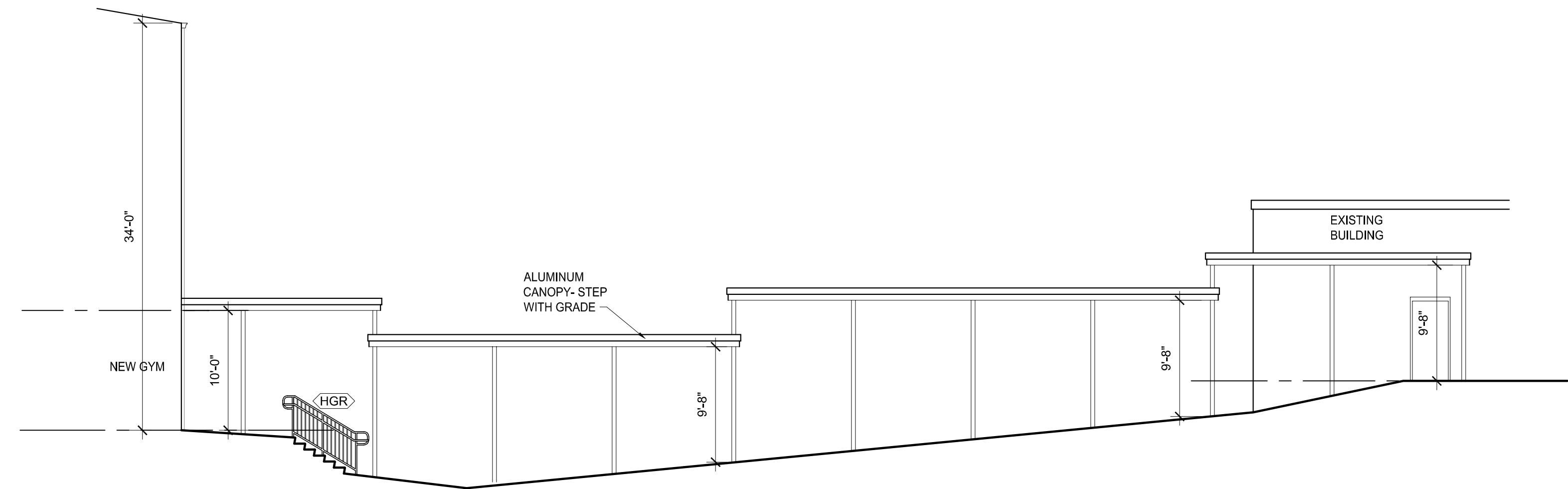


SHEET TITLE : EXTERIOR ELEVATIONS  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
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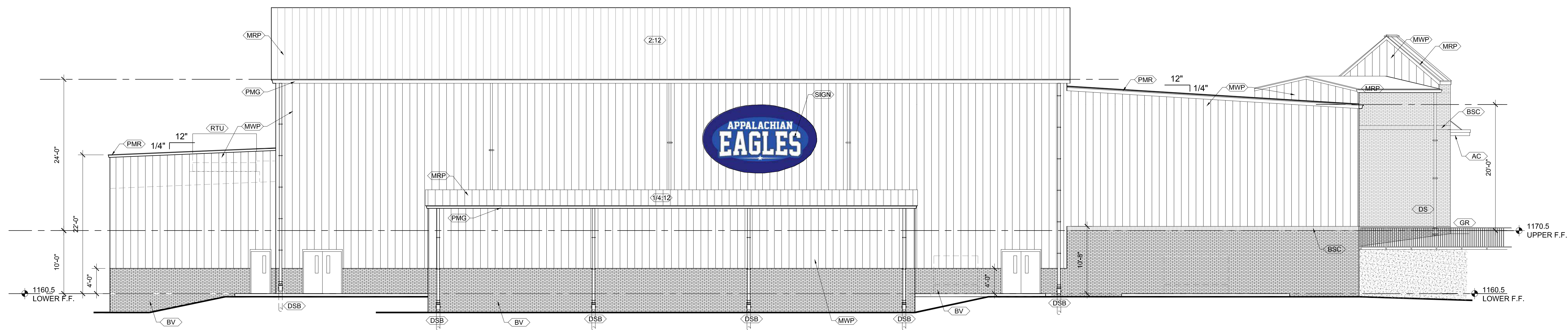
SHEET NO. : **A4.1**



5 SOUTH EXTERIOR ELEVATION  
SCALE: 1/8" = 1'-0"



6 CANOPY ELEVATION  
SCALE: 1/8" = 1'-0"

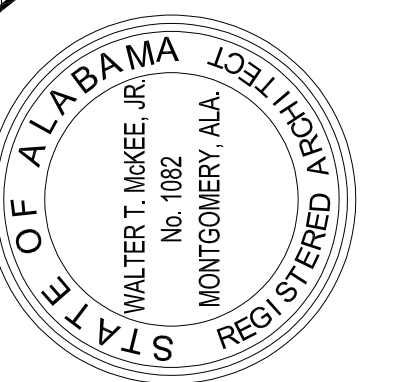


7 EAST EXTERIOR ELEVATION  
SCALE: 1/8" = 1'-0"

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SHEET TITLE : EXTERIOR ELEVATIONS

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE : 9/18/24

REVISED DATE :

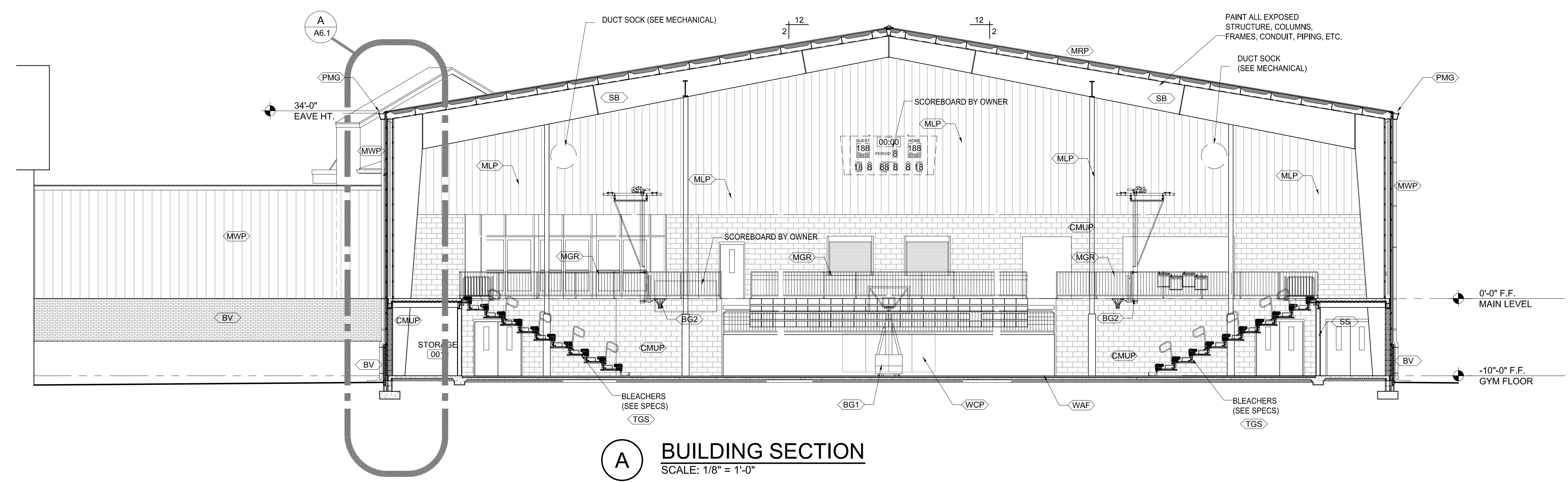
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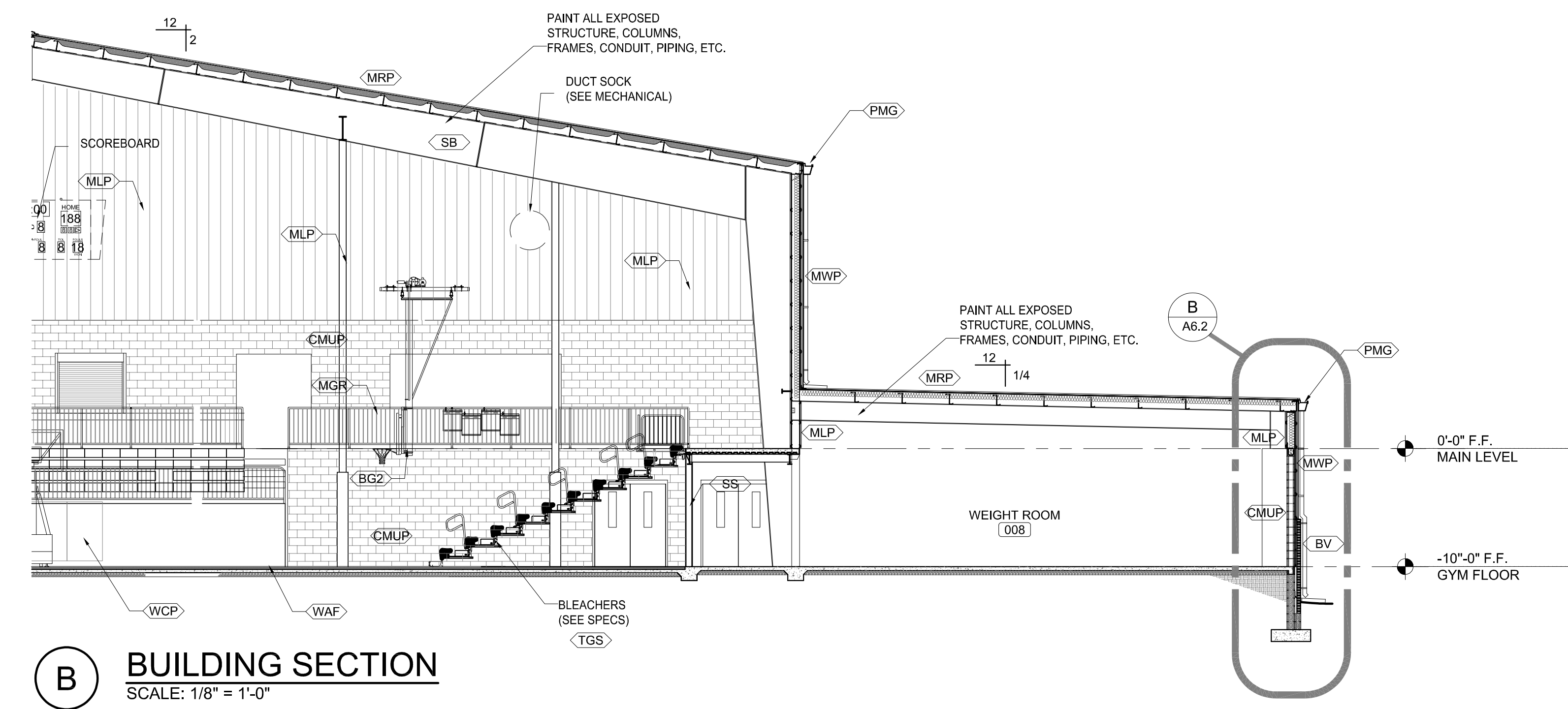
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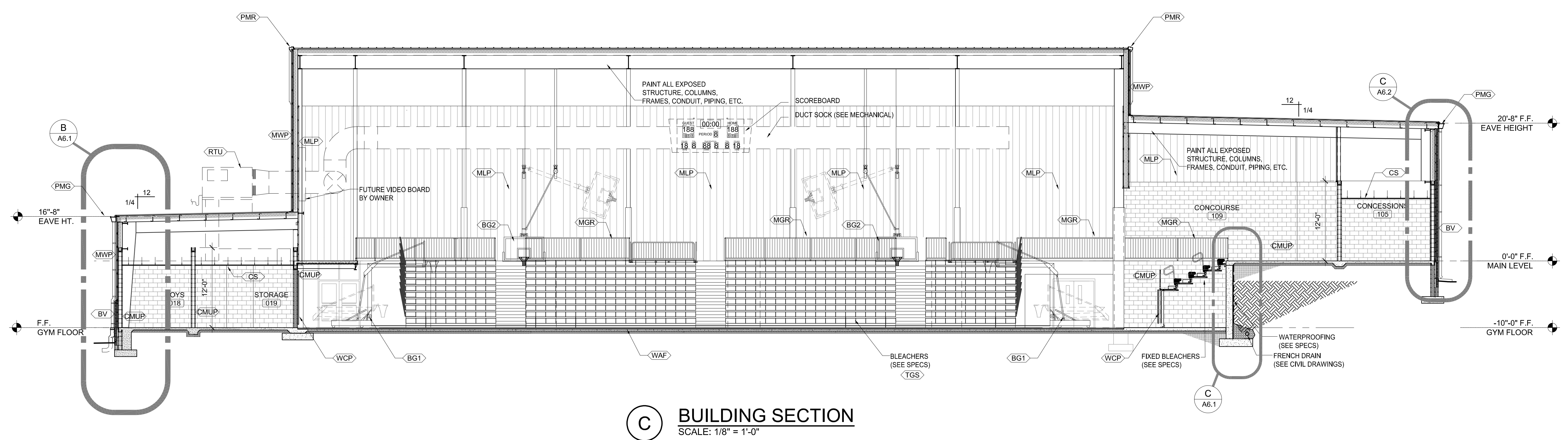
BUILDING SECTION LEGEND	
SYMBOL	DESCRIPTION
CMUP	CONCRETE MASONRY UNIT - PAINT
MLP	ACCOUSTICAL METAL LINER PANEL (SEE SPECS)
GBP	GYPSUM BOARD - PAINT
MRP	METAL ROOF PANEL
MWP	METAL WALL PANEL (SEE SPECS)
MGR	METAL GUARD RAIL - PAINT
BG1	BASKETBALL GOAL - PORTABLE (SEE SPECS)
BG2	BASKETBALL GOAL - SIDE FOLD (SEE SPECS)
CCP	COLUMN CRASH PADS
WCP	WALL CRASH PADS
TGS	TELESCOPIC GYMNASIUM SEATING
ESP	EXPOSED STRUCTURE - PAINT
SB	STEEL BEAM - AS REQUIRED FOR ALL FOLDING GOALS
PMG	PREFINISHED METAL GUTTER - BY METAL BUILDING MANUFACTURE
SS	6" STEEL STUD FRAMING @ 16" O.C. W/ GYPSUM BOARD EACH SIDE
CS	CEILING AS SPECIFIED
WAF	WOOD ATHLETIC FLOORING
PMR	PREFINISHED METAL RAKE - BY METAL BUILDING MANUFACTURE
BV	BRICK VENEER



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



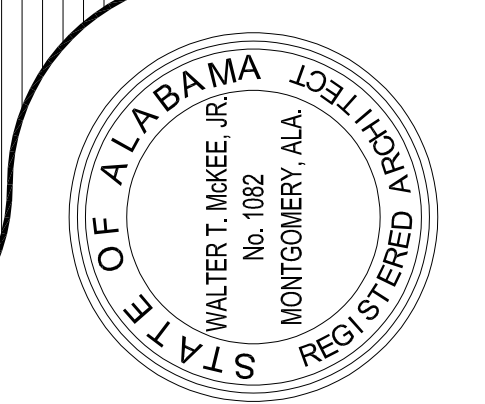
**B BUILDING SECTION**  
SCALE: 1/8" = 1'-0"



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

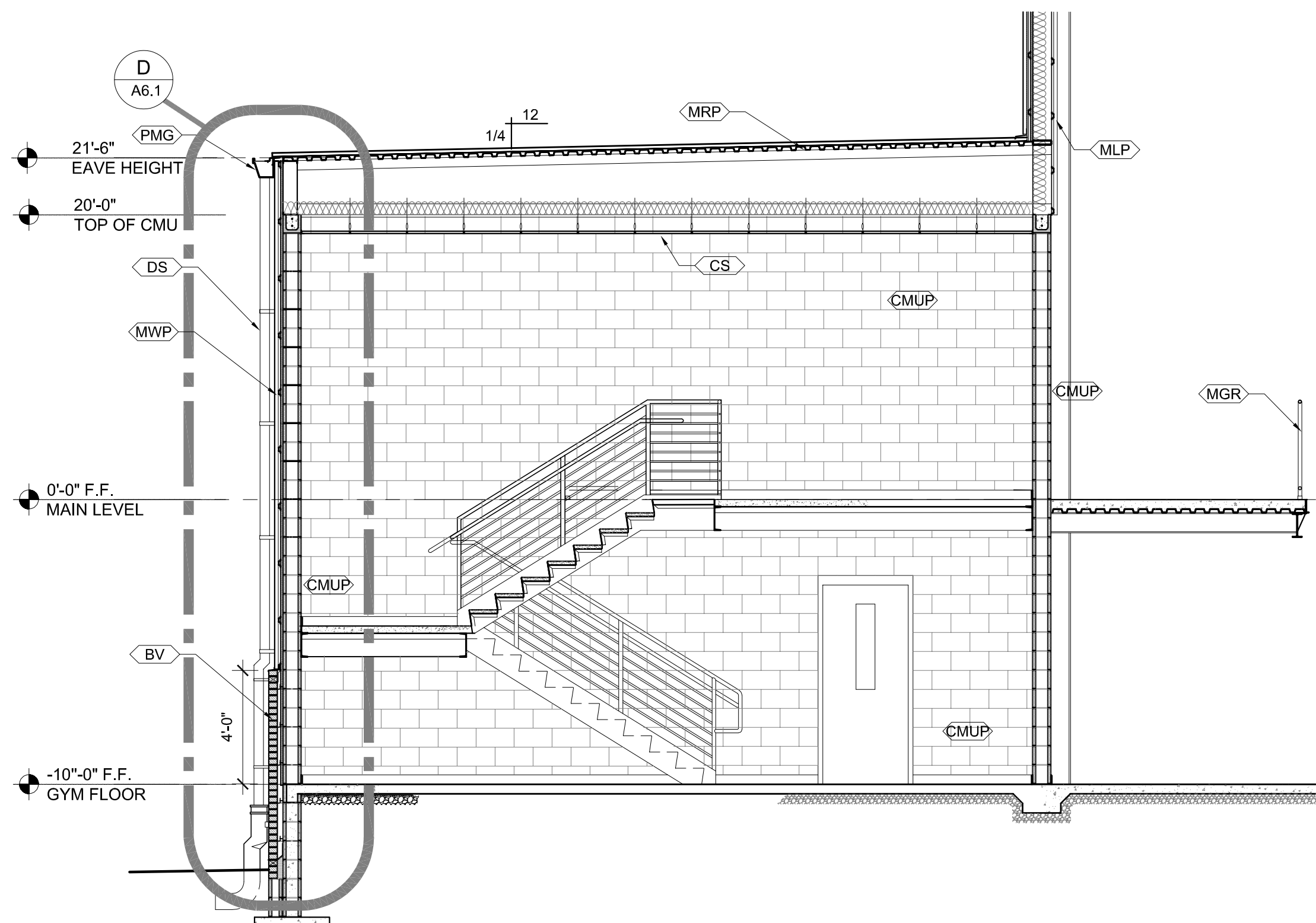
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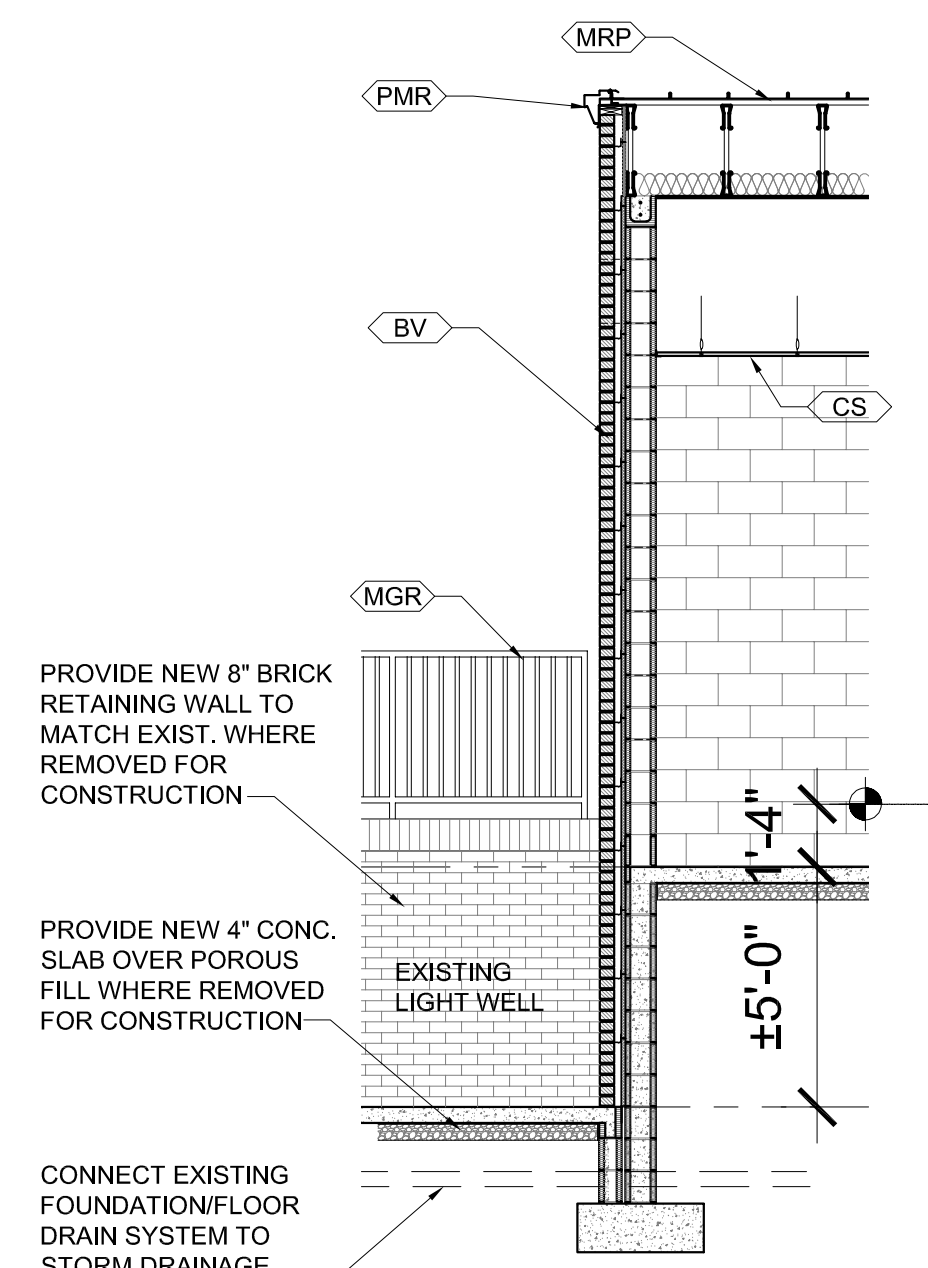


SHEET TITLE : BUILDING SECTIONS  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
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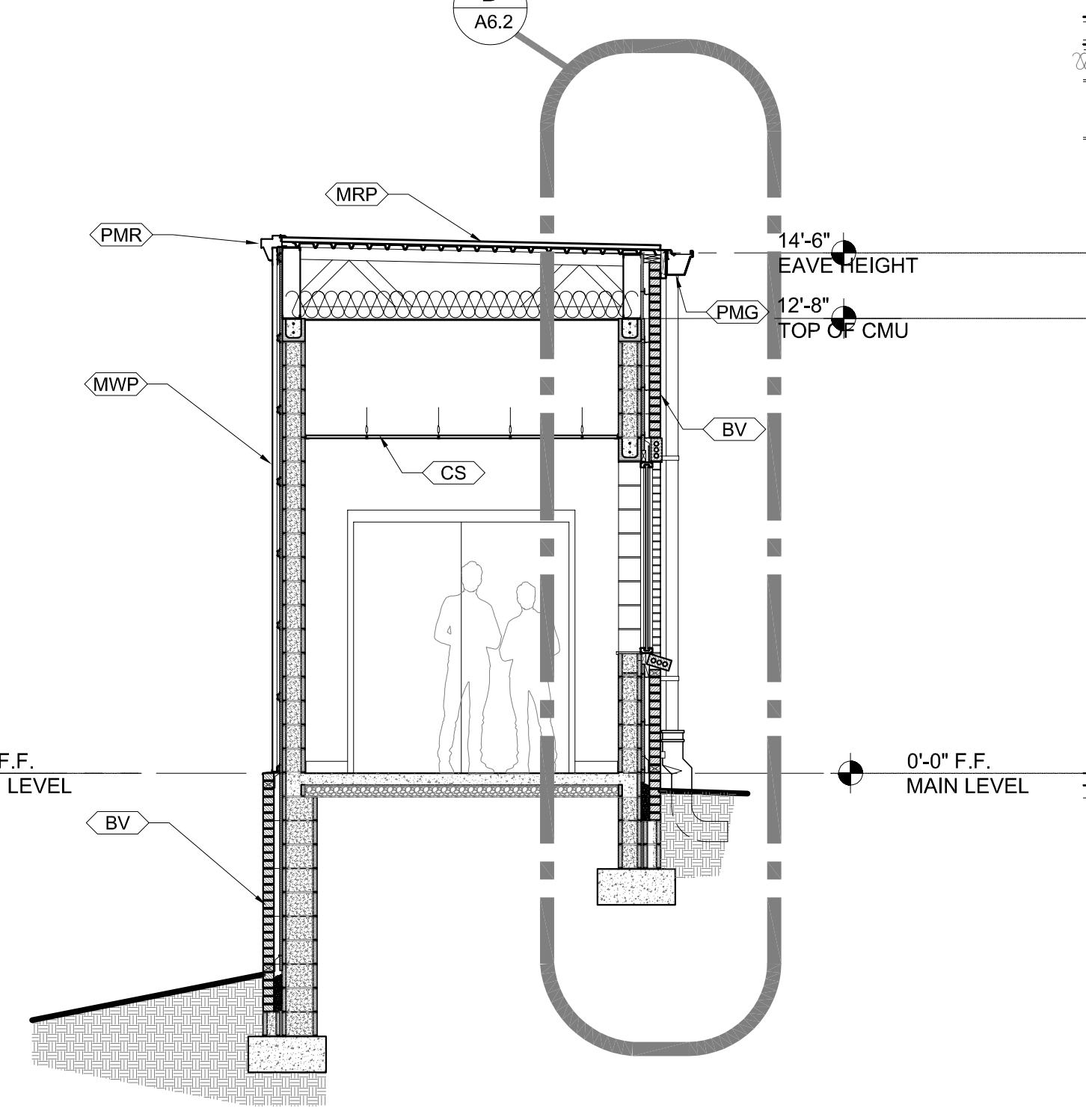
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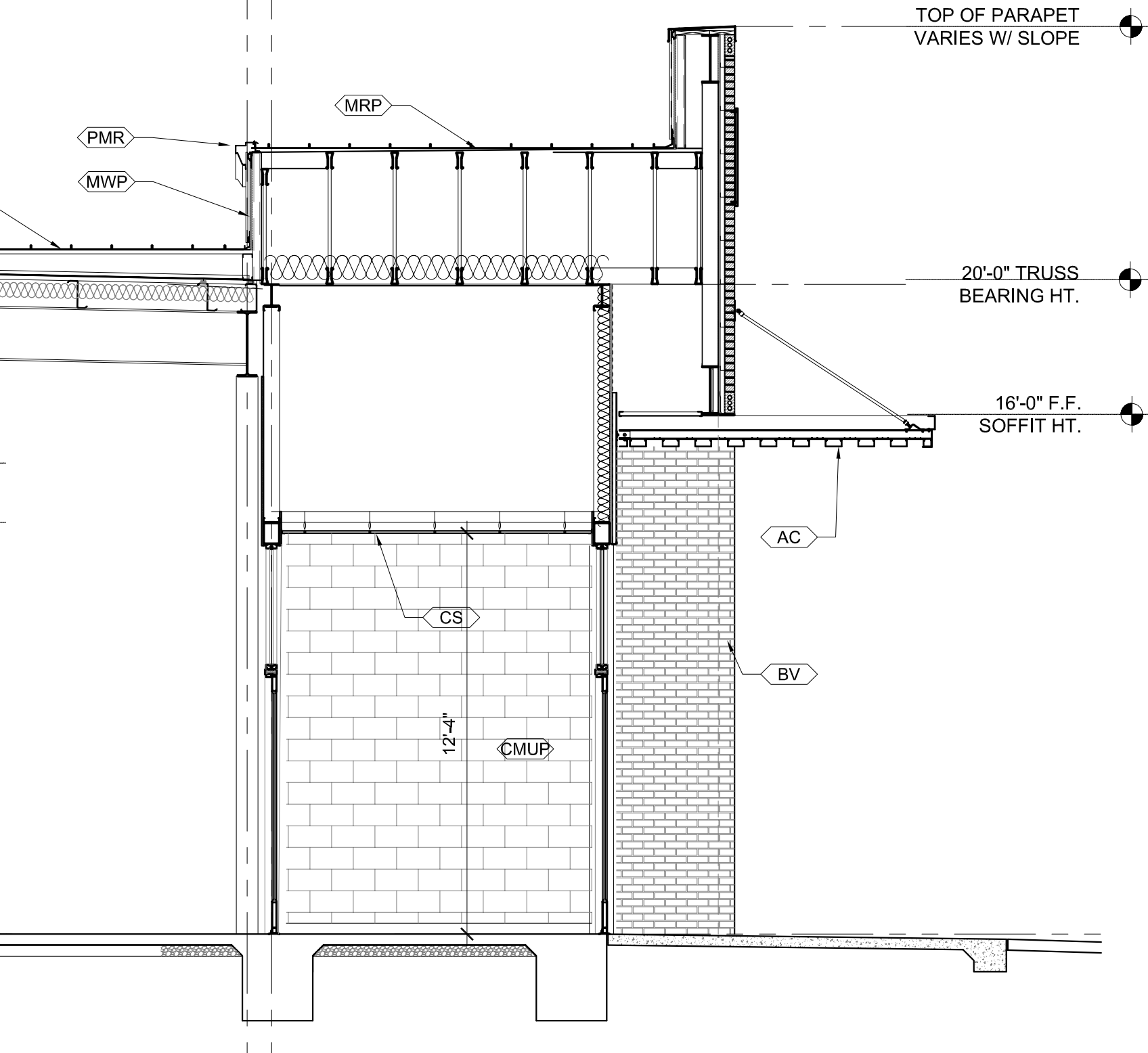
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SCALE: 1/4" = 1'-0"



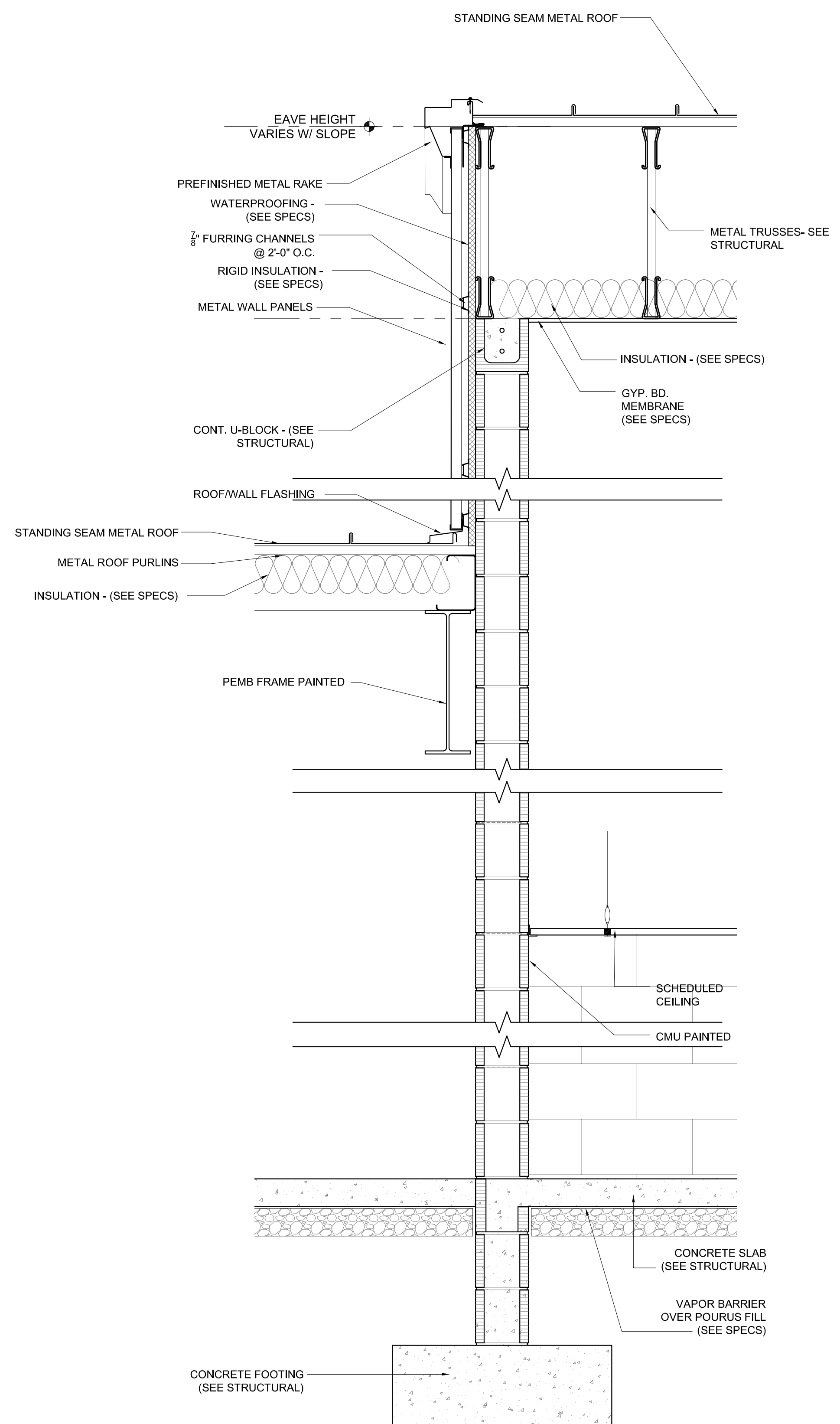
**D SECTION @ CORRIDOR**  
SCALE: 1/4" = 1'-0"



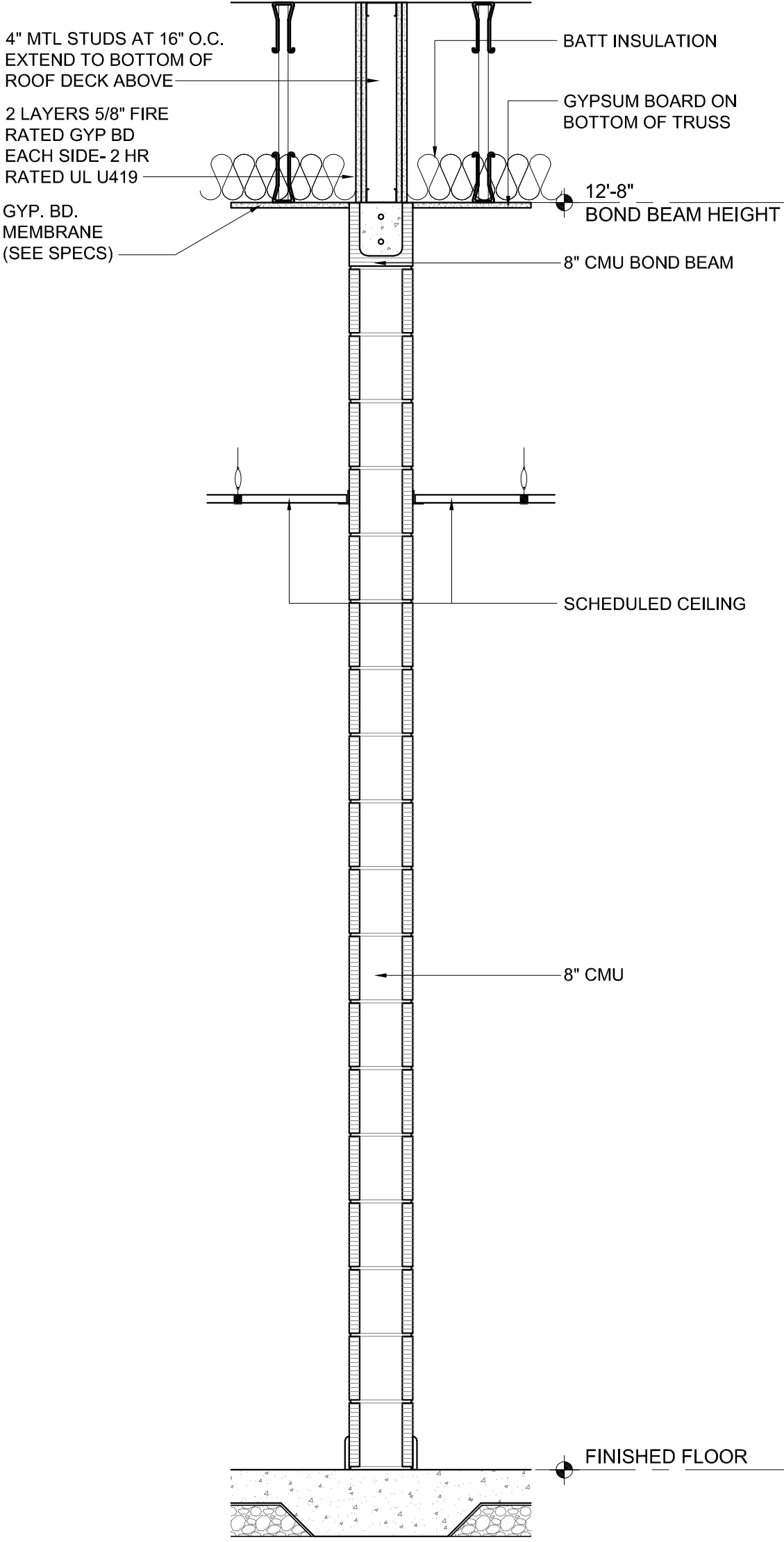
**B SECTION @ CORRIDOR**  
SCALE: 1/4" = 1'-0"



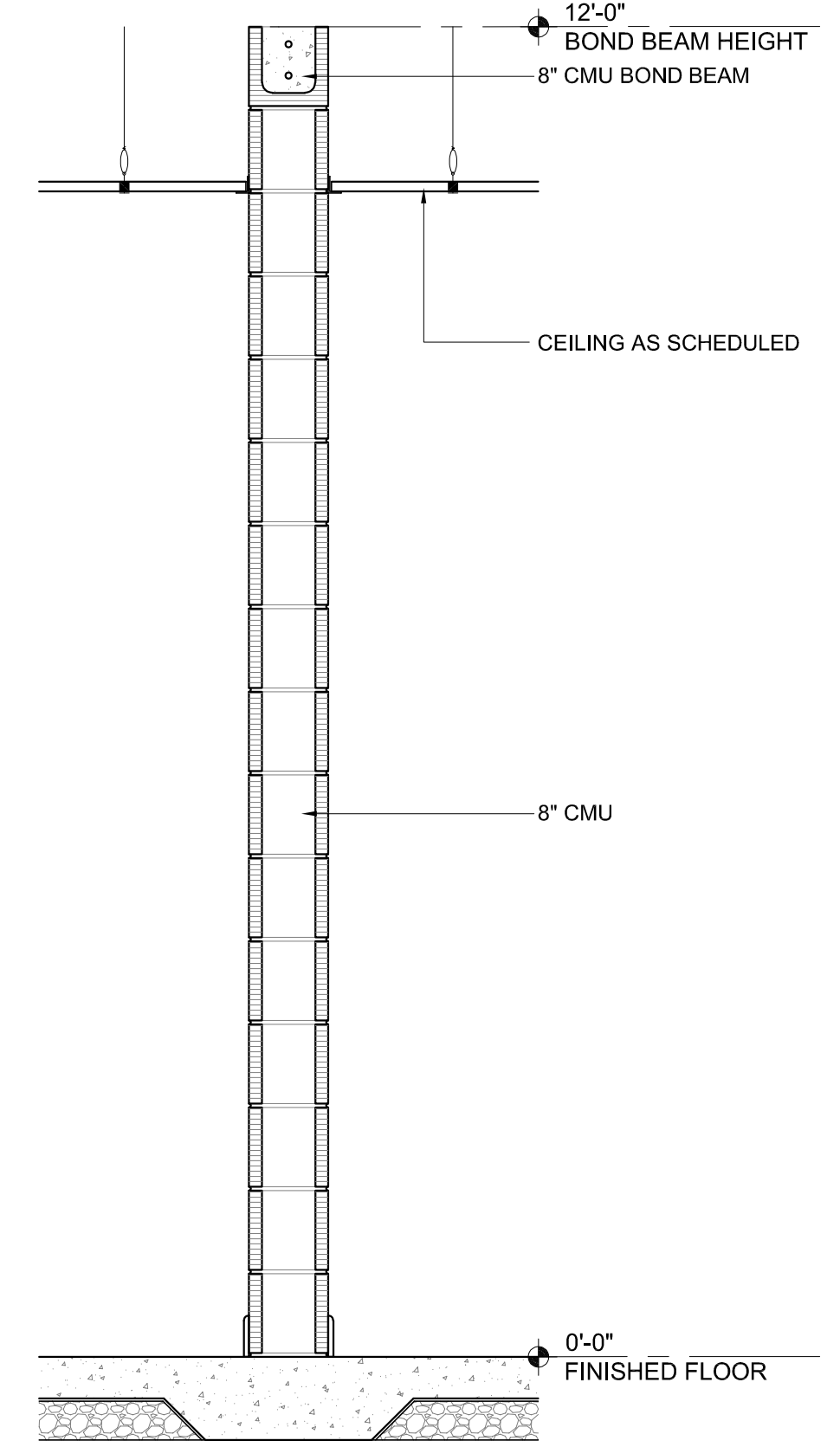
**C BUILDING SECTION @ ENTRANCE**  
SCALE: 1/4" = 1'-0"



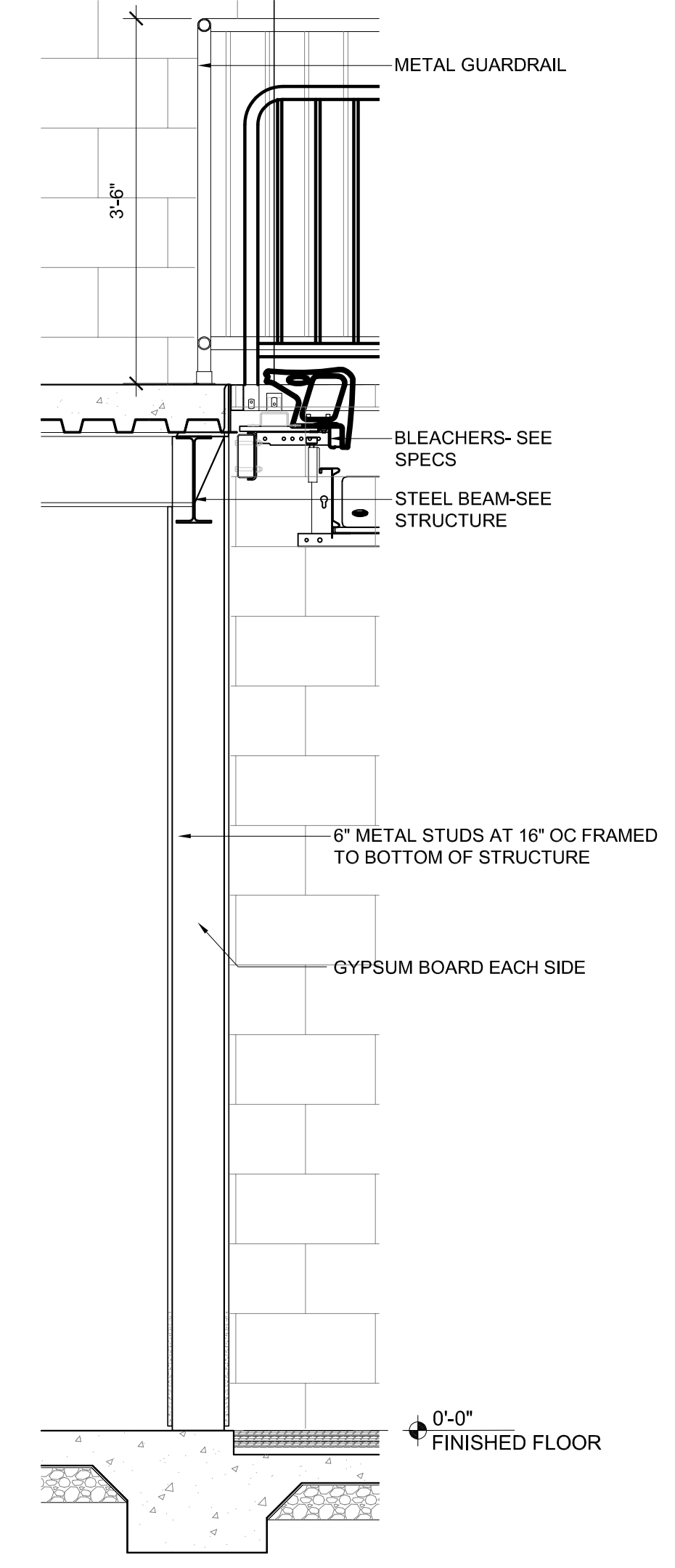
**D WALL SECTION**  
SCALE: 3/4" = 1'-0"



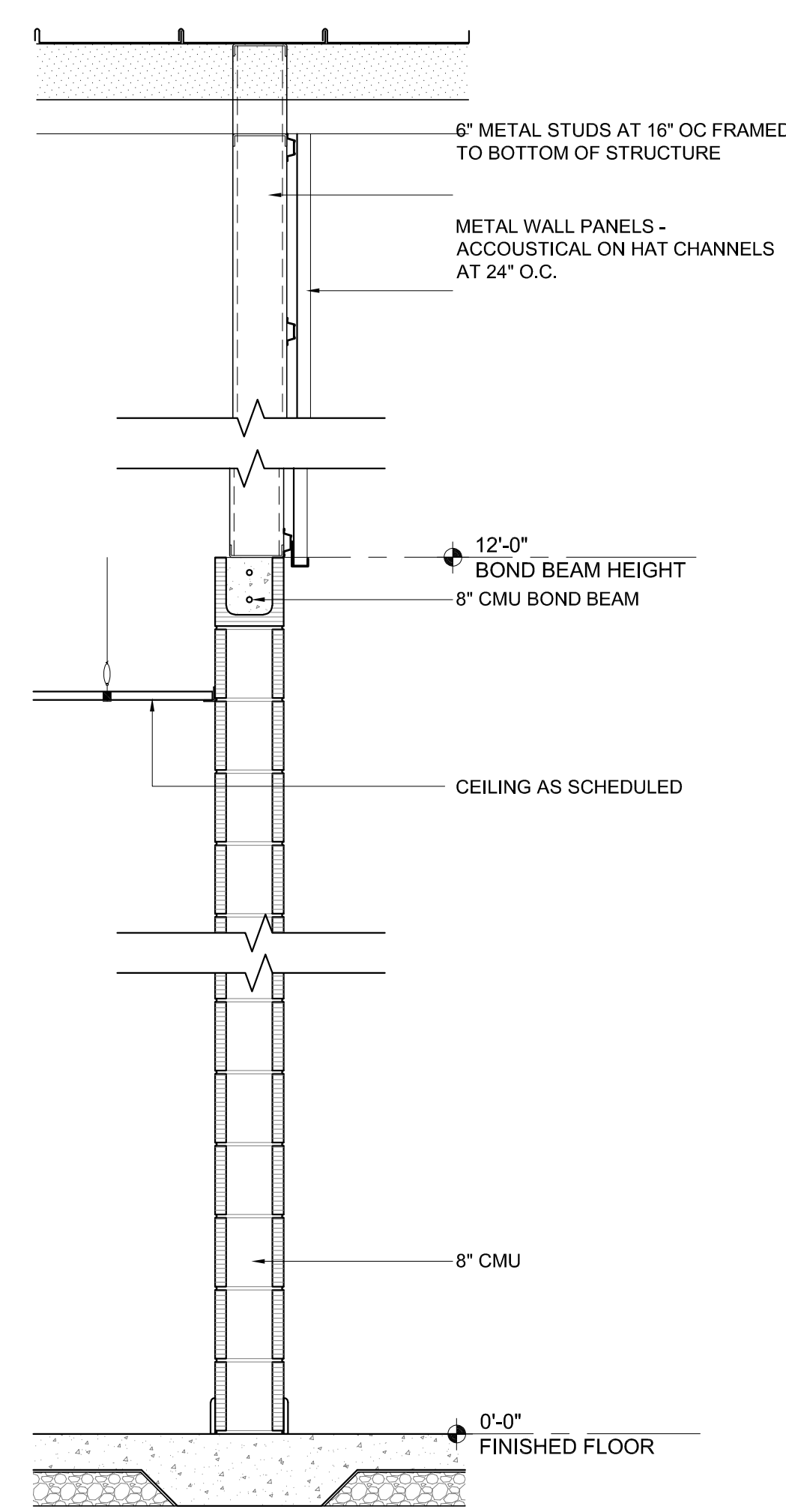
**E WALL SECTION**  
SCALE: 3/4" = 1'-0"



**P1 PARTITION TYPES**  
SCALE: 3/4" = 1'-0"



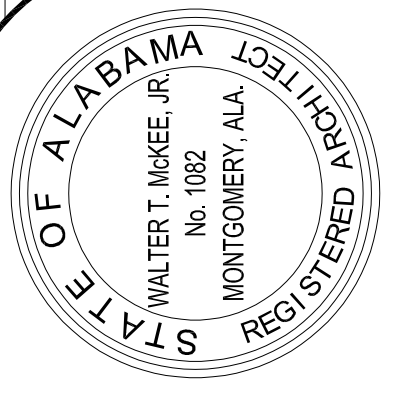
**P2 PARTITION TYPES**  
SCALE: 3/4" = 1'-0"



**P3 PARTITION TYPES**  
SCALE: 3/4" = 1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

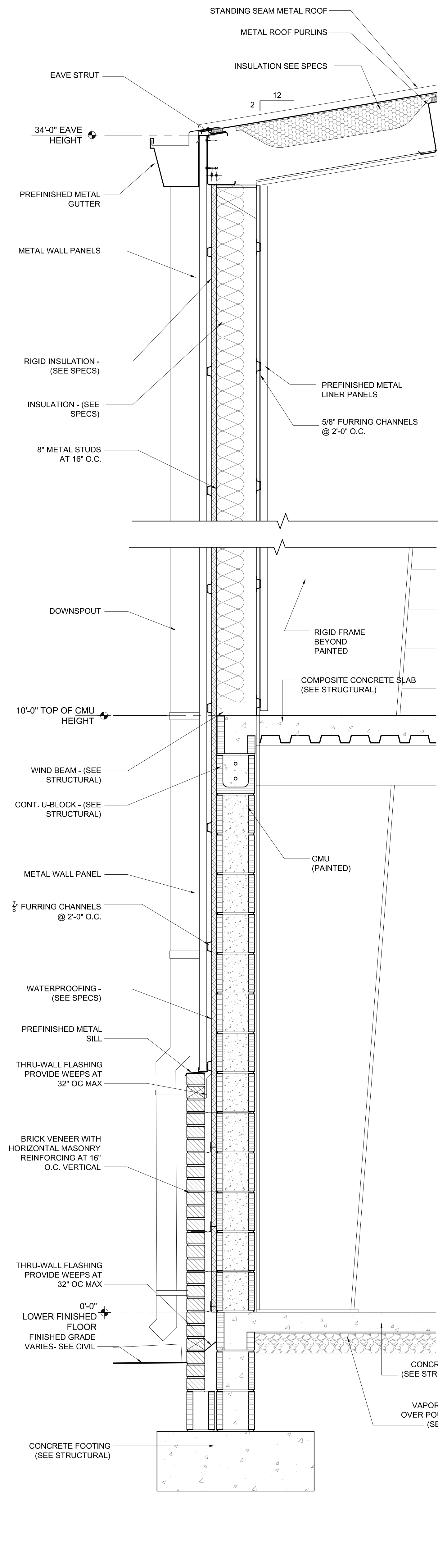
**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



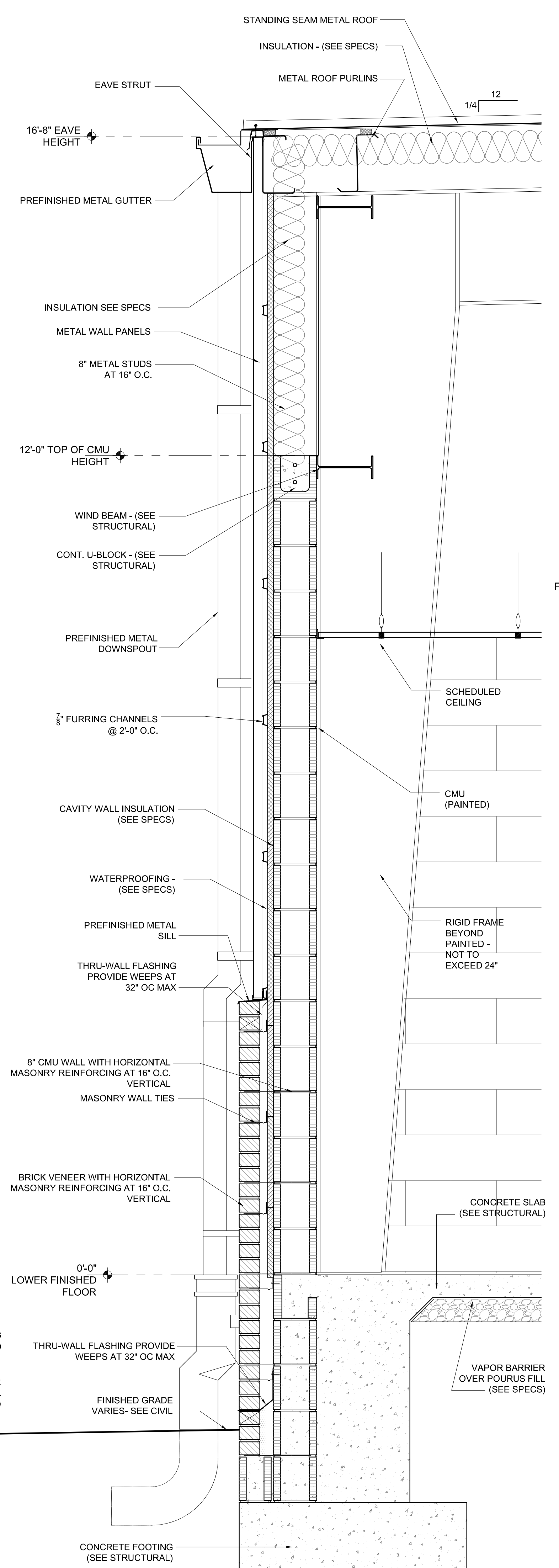
SHEET TITLE : BUILDING SECTIONS  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **A5.2**

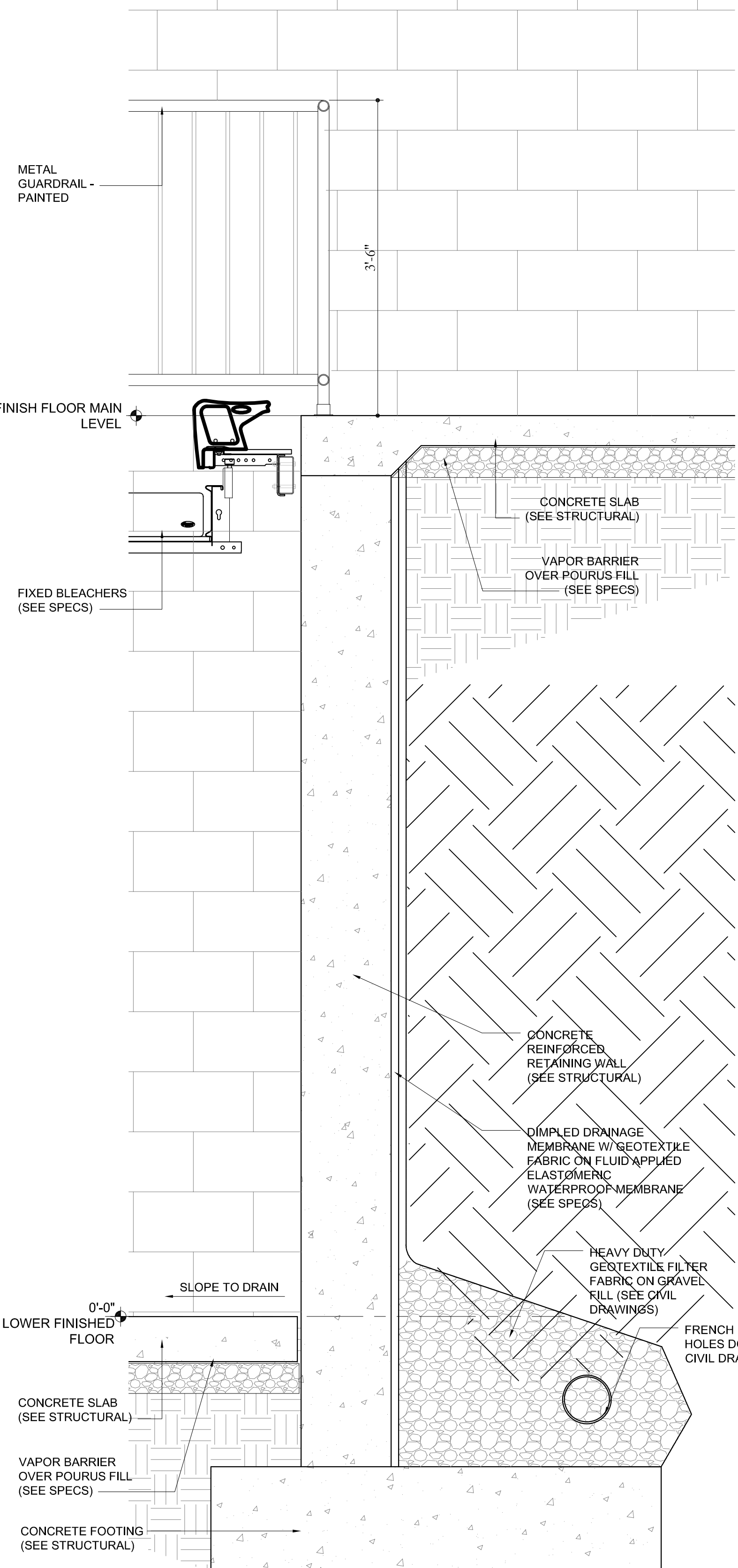




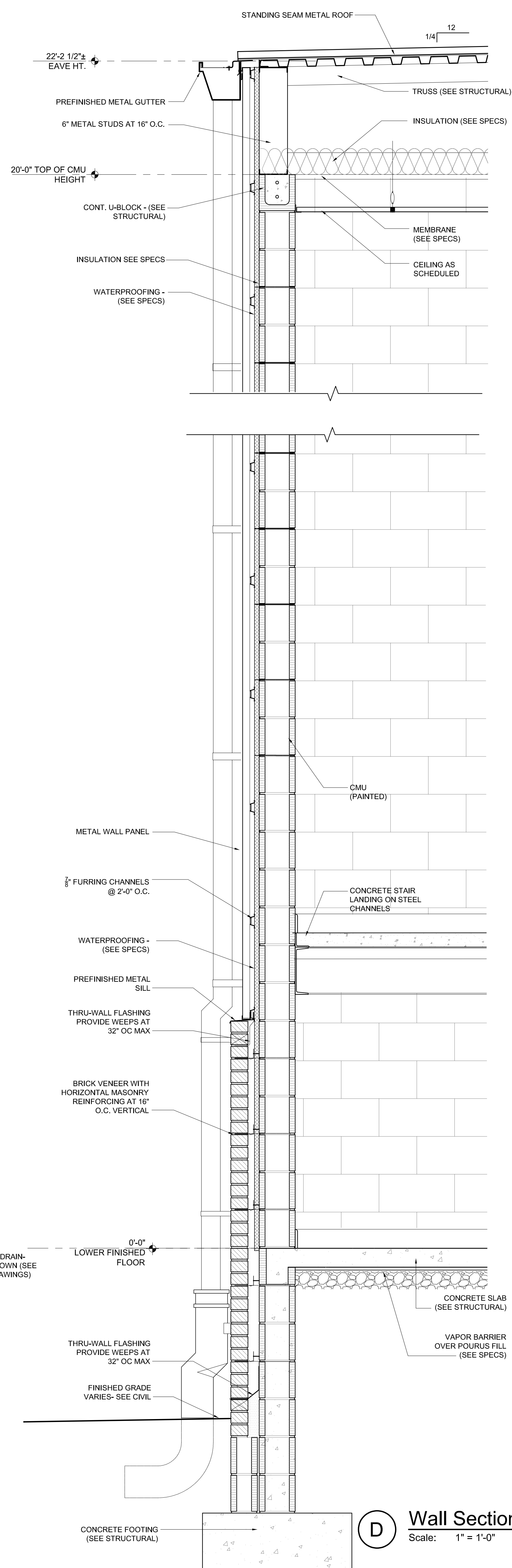
**A** Wall Section  
Scale: 1" = 1'-0"



**B** Wall Section  
Scale: 1" = 1'-0"



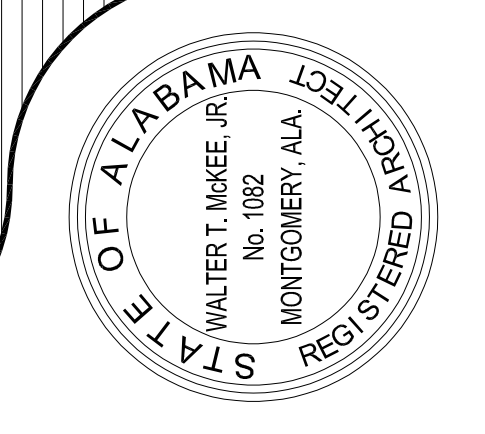
**C** Wall Section  
Scale: 1" = 1'-0"



**D** Wall Section  
Scale: 1" = 1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
ONEONTA, ALABAMA

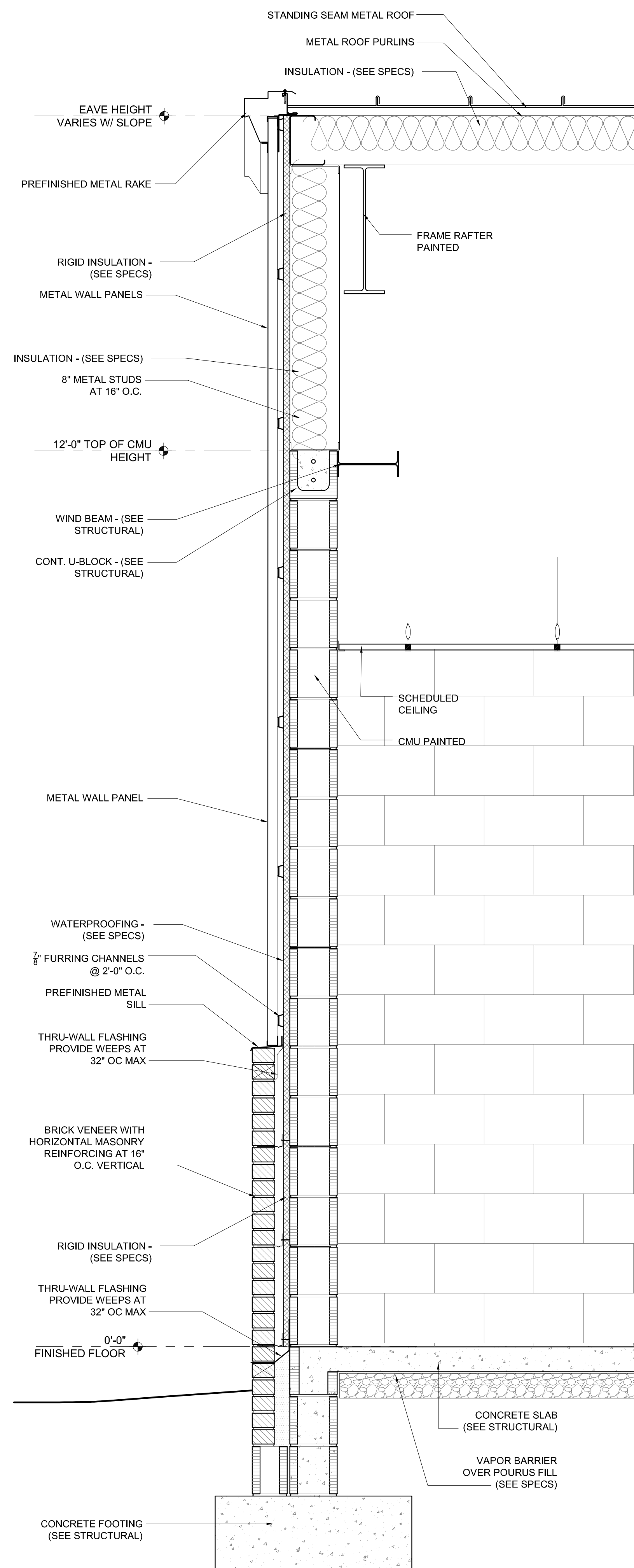
**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-8833



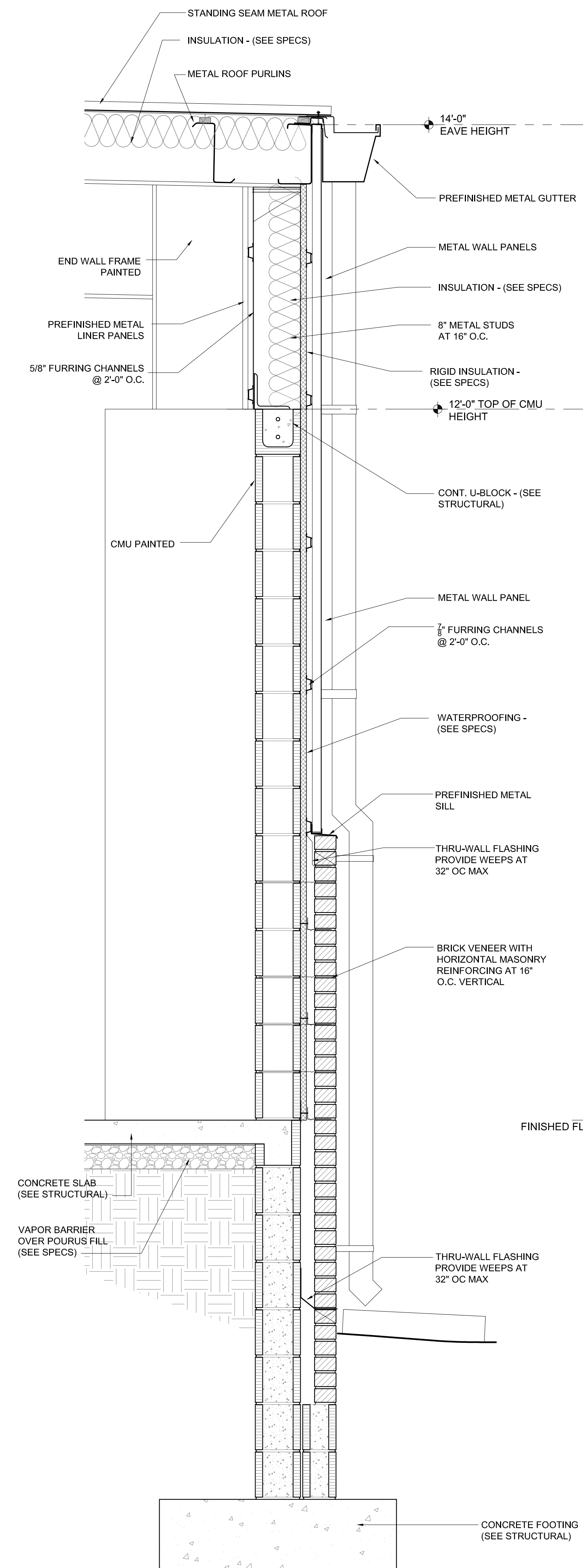
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DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A6.1**

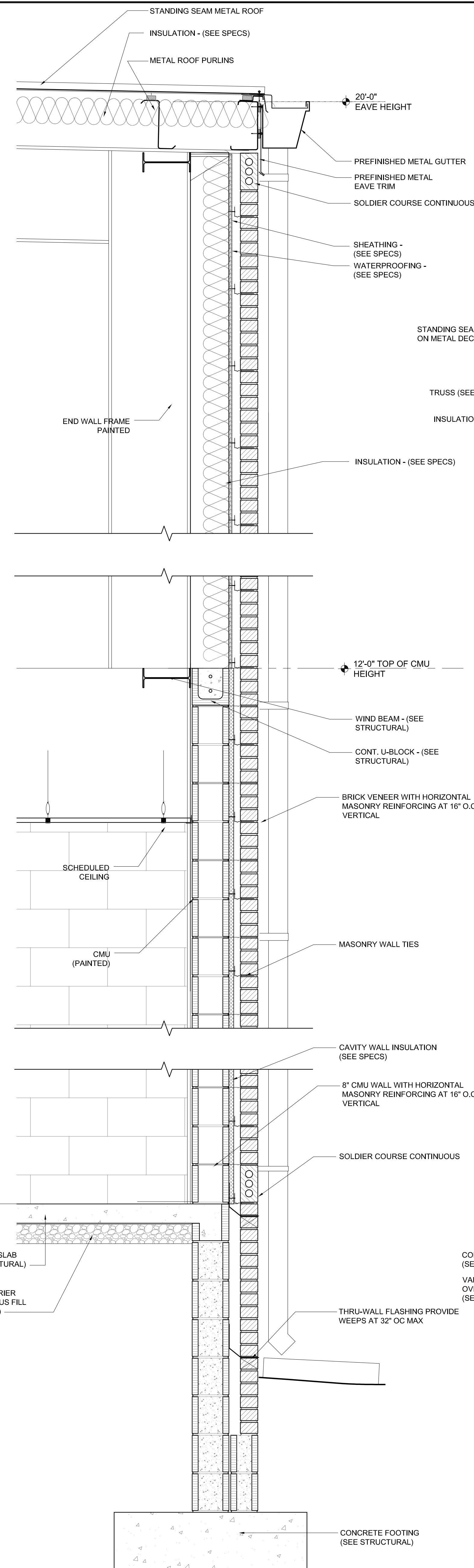
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- Wednesday, September 18, 2024 12:22:53 PM



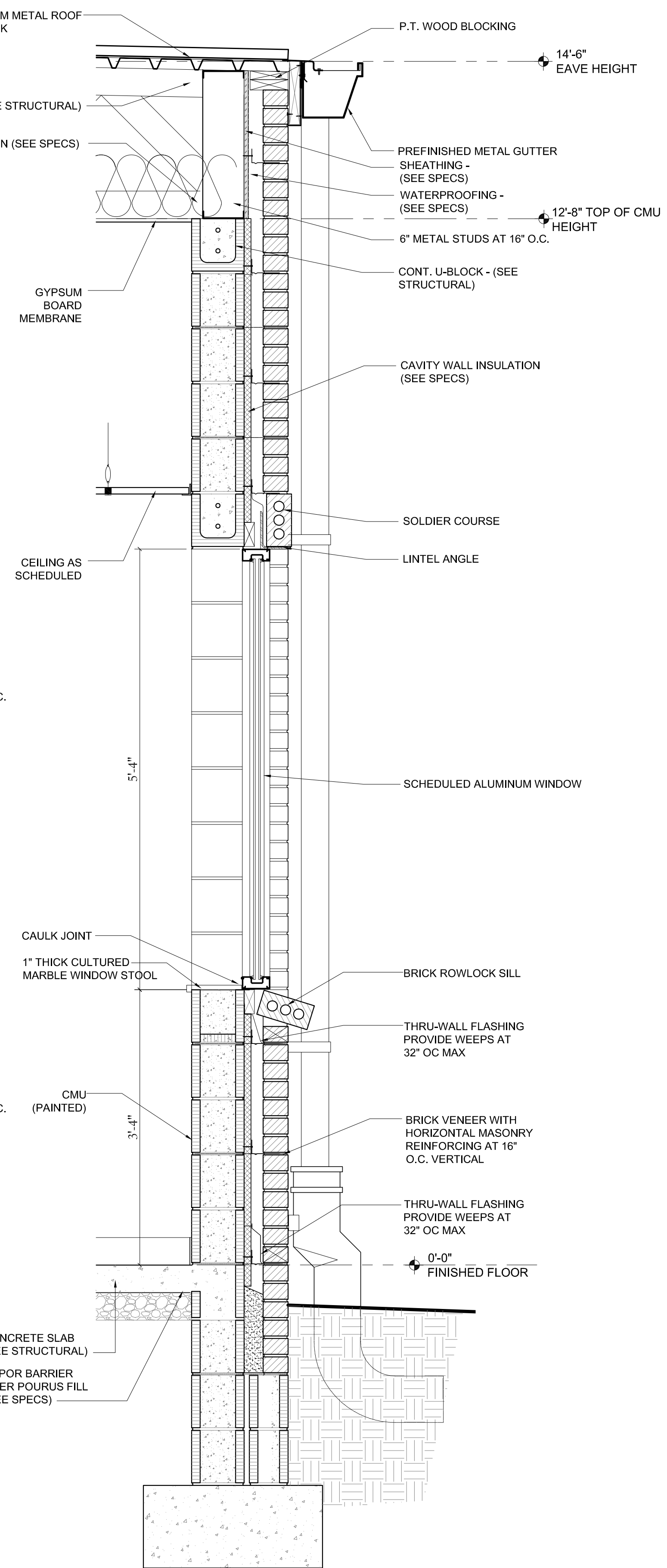
**A** Wall Section  
Scale: 1" = 1'-0"



**B** Wall Section  
Scale: 1" = 1'-0"



**C** Wall Section  
Scale: 1" = 1'-0"



**D** Wall Section  
Scale: 1" = 1'-0"

NEW GYMNASIUM AT APPALACHIAN SCHOOL  
FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.

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SHEET TITLE : WALL SECTIONS  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A6.2**

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## ROOM FINISH SCHEDULE

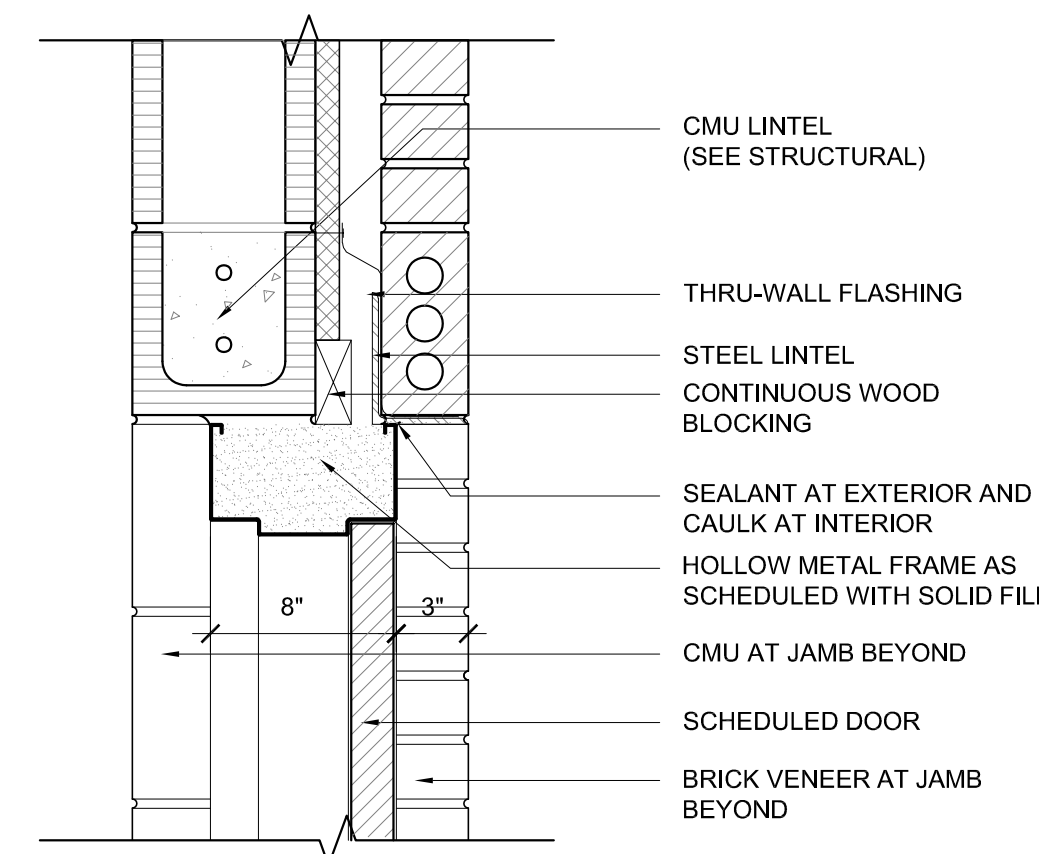
ROOM #	ROOM NAME	FLOOR	BASE	WALLS			CEILING		WANS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE			
001	STORAGE	SC	-	CMU	CMU	CMU	CMU	SEE RCP PLAN	-	-	-
003	COMPETITION GYMNASIUM	WGF	-	CMUP	CMUP	CMUP	CMUP	-	-	-	CEILING EXPOSED STRUCTURE PAINTED
004	GIRL'S TOILET	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	WALLS AND FLOOR OF SHOWER TO BE PORCELAIN TILE
005	GIRL'S LOCKER ROOM	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
006	BOYS LOCKER ROOM	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
007	BOYS TOILET	PC*	-	CMUP	CMUP	CMUP/PT	CMUP	SEE RCP PLAN	-	-	WALLS AND FLOOR OF SHOWER TO BE PORCELAIN TILE; PT WAINSCOT AT PLUMBING WALL
008	WEIGHT ROOM	PC*	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	RFT BY OWNER
009	CORRIDOR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
010	STAIR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
011	ELECTRICAL/DATA	SC	-	CMU	CMU	CMU	CMU	SEE RCP PLAN	-	-	-
013	TRAINING	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
014	CORRIDOR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
015	OFFICE	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
016	TOILET	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
017	BOYS LOCKER ROOM	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
018	BOYS TOILET	PC	-	CMUP	CMUP	CMUP	CMUP/PT	SEE RCP PLAN	-	-	WALLS AND FLOOR OF SHOWER TO BE PORCELAIN TILE; PT WAINSCOT AT PLUMBING WALL
019	STORAGE	SC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
020	GIRL'S TOILET	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	WALLS AND FLOOR OF SHOWER TO BE PORCELAIN TILE
021	GIRL'S LOCKER ROOM	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
022	CORRIDOR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
023	OFFICE	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
024	TOILET	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
025	STORAGE	SC	-	GB	CMU	GB	CMU	SEE RCP PLAN	-	-	-
026	LIFT	SC	-	CMU	CMU	CMU	CMU	-	-	-	-
027	STAIR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
028	REFEREE	PC	-	MGBP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
029	REFEREE RESTROOM	PC	-	MGBP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
031	PUMP ROOM	SC	-	CMU	CMU	CMU	CMU	SEE RCP PLAN	-	-	-
101	VESTIBULE	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
102	LOBBY	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
103	ELEC/MECH	SC	-	CMU	CMU	CMU	CMU	SEE RCP PLAN	-	-	-
104	JANITOR	SC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
105	CONCESSIONS	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
106	STORAGE	SC	-	CMU	CMU	CMU	CMU	SEE RCP PLAN	-	-	-
107	MEN	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
108	WOMEN	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
109	CONCOURSE	PC	-	CMUP	CMUP	CMUP	CMUP	-	-	-	CEILING EXPOSED STRUCTURE PAINTED
110	STAIR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
111	STAIR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-
112	LIFT	SC	-	CMU	CMU	CMU	CMU	-	-	-	-
113	CORRIDOR	PC	-	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	-	-	-

## DOOR SCHEDULE - LOWER LEVEL

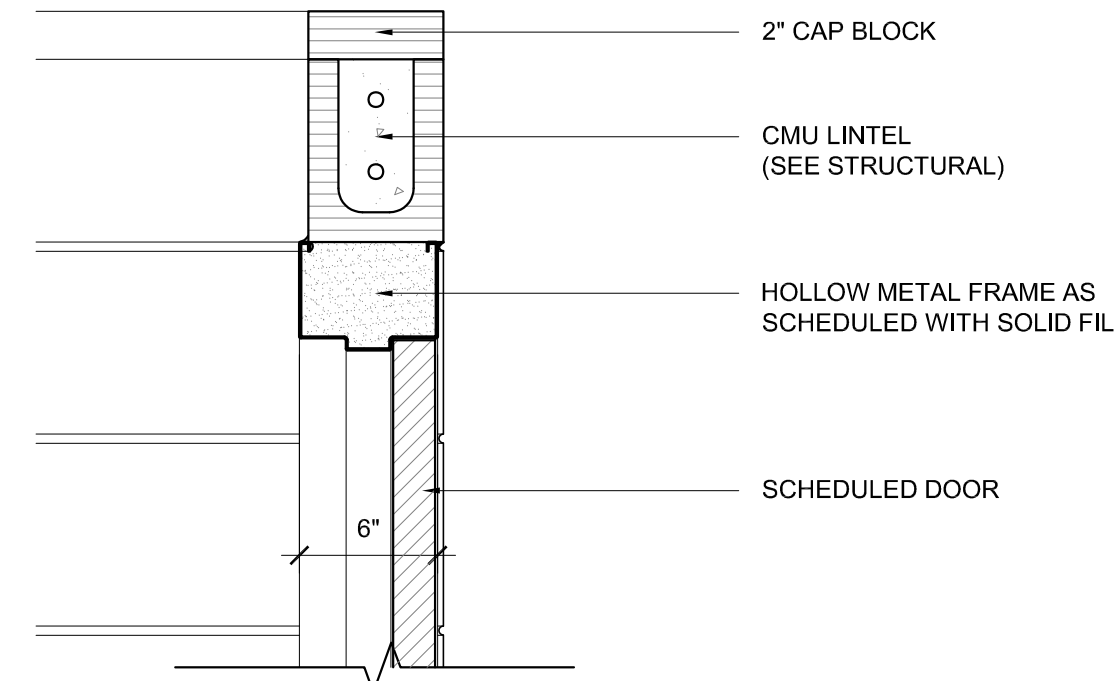
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS		SIGNAGE	REMARKS
										HEAD	JAMB		
001	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM2	PAINT		16/A8.2	17/A8.2		STORAGE
003A	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM3	PAINT		3/A8.2	2/A8.2		
003B	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM3	PAINT		3/A8.2	2/A8.2		
003C	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM3	PAINT		3/A8.2	2/A8.2		
005	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		GIRL'S LOCKER ROOM
006	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		BOYS LOCKER ROOM
008A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM2	PAINT		16/A8.2	17/A8.2		WEIGHT ROOM
008B	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM3	PAINT		3/A8.2	2/A8.2		
008C	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM2	PAINT		16/A8.2	17/A8.2		WEIGHT ROOM
009	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM3	PAINT		3/A8.2	2/A8.2		
010A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		STAIR
010B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM1	PAINT		3/A8.2	2/A8.2		
011	PAIR 3'-0"	7'-0"	1 3/4"	FRP	D	PAINT	HM3	PAINT		13/A8.2	14/A8.2		ELECTRICAL PANIC BAR REQUIRED
013	4'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		
015	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT		13/A8.2	14/A8.2		
016	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		TOILET
017	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		BOYS LOCKER ROOM
019A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		STORAGE DOOR CLOSER REQUIRED
019B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		STORAGE DOOR CLOSER REQUIRED
021	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		GIRL'S LOCKER ROOM
023	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT		13/A8.2	14/A8.2		
024	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		TOILET
025	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM3	PAINT		13/A8.2	14/A8.2		STORAGE
026	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		CHAIR LIFT
027A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM1	PAINT		3/A8.2	2/A8.2		
027B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		STAIR
028	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		REFEREE
029	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		TOILET
031	4'-0"	7'-0"	1 3/4"	HOLLOW METAL	D	PAINT	HM1	PAINT		3/A8.2	2/A8.2		FIRE PUMP

## DOOR SCHEDULE - MAIN LEVEL

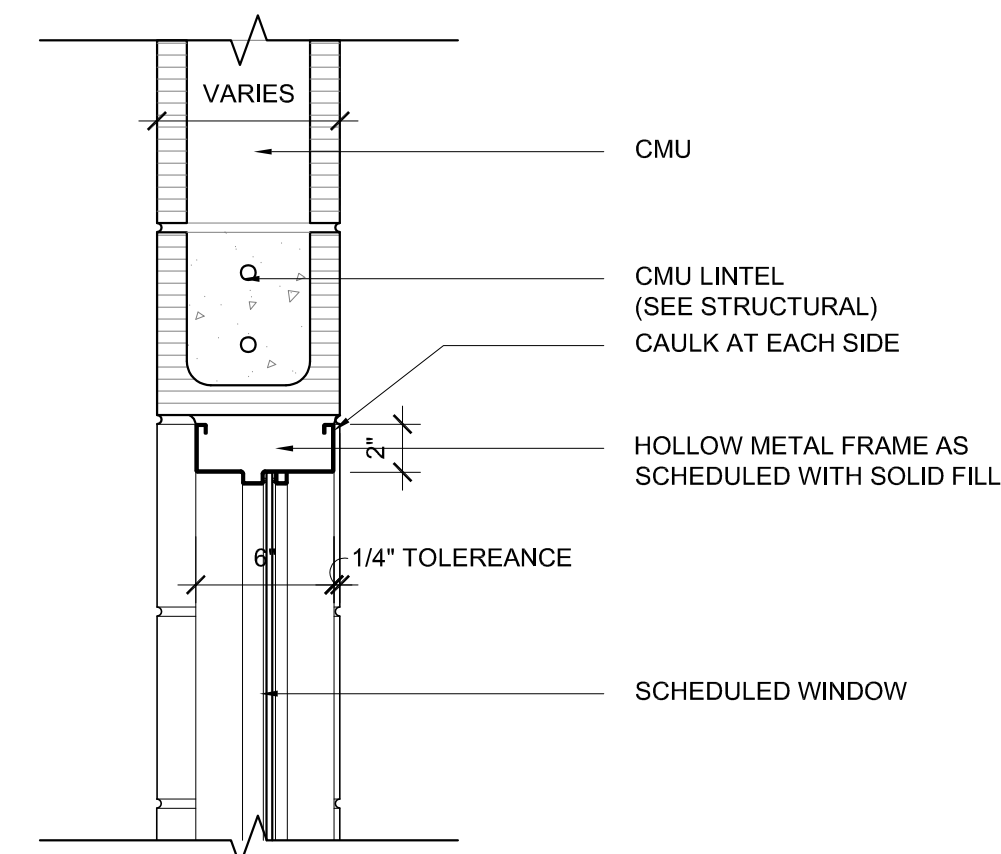
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS		SIGNAGE	REMARKS
										HEAD	JAMB		
101A	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
101B	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
101C	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
102A	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
102B	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
102C	PAIR 4'-0"	8'-0"	-	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY		4/A8.2	5/A8.2		
103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		ELEC/MECH
104	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		JANITOR
105A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT		13/A8.2	14/A8.2		
105B	6'-0"	4'-0"	-	ALUMINUM COUNTER SHUTTER	E	FACTORY	-	FACTORY		19/A8.2	18/A8.2		
105C	6'-0"	4'-0"	-	ALUMINUM COUNTER SHUTTER	E	FACTORY	-	FACTORY		19/A8.2	18/A8.2		
106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		STORAGE
107A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		MEN
107B	2'-4"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
107C	3'-0"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	7/A8.2		
108A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM1	PAINT		13/A8.2	14/A8.2		WOMEN
108B	2'-2"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108C	2'-4"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108D	2'-8"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108E	3'-0"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	7/A8.2		
108F	2'-2"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108G	2'-2"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108H	2'-2"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
108I	2'-2"	4'-8"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM4	PAINT		6/A8.2	8/A8.2		
110	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		STAIR
111	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		STAIR
112	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	PAINT	HM1	PAINT	1 HR	13/A8.2	14/A8.2		CHAIR LIFT
113A	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	PAINT	HM3	PAINT	1 1/2 HR	13/A8.2	14/A8.2		
113B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL									



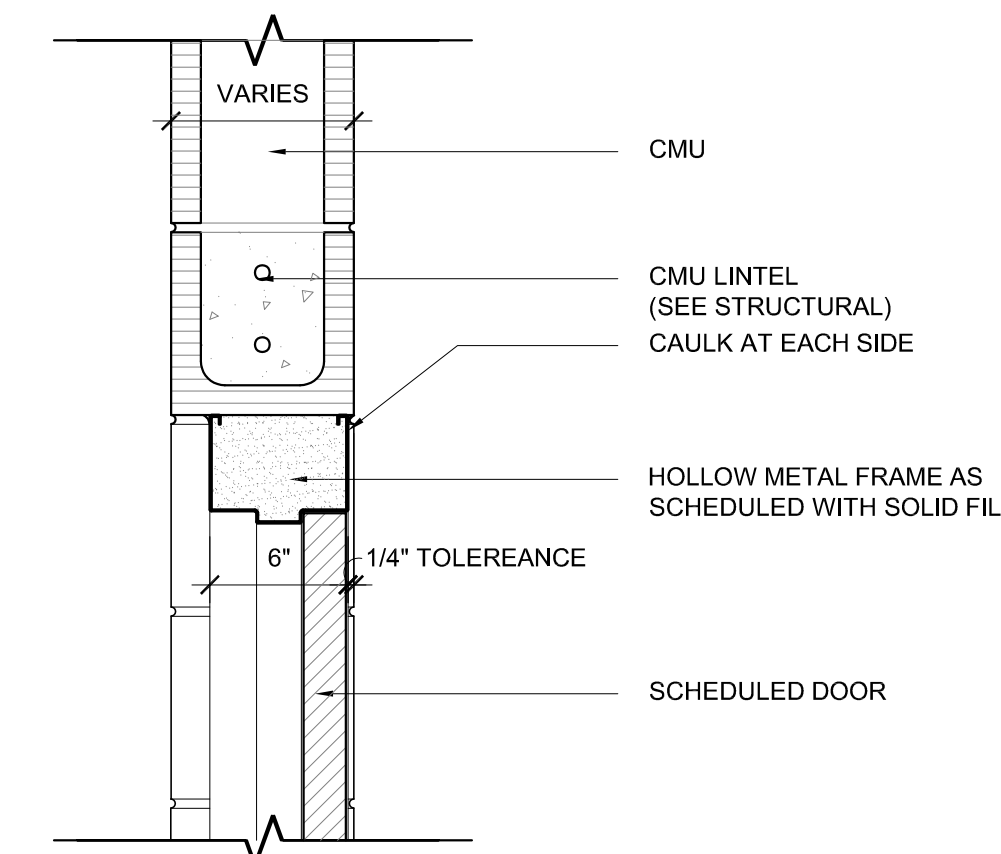
**1 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



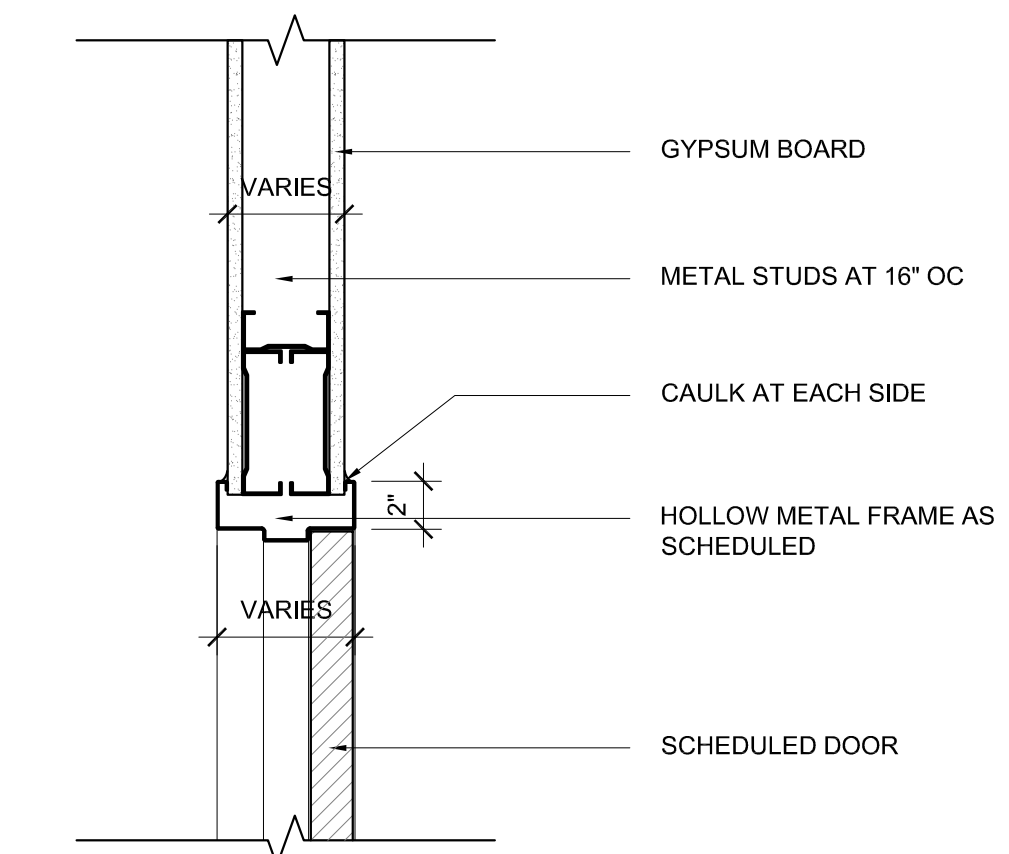
**6 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



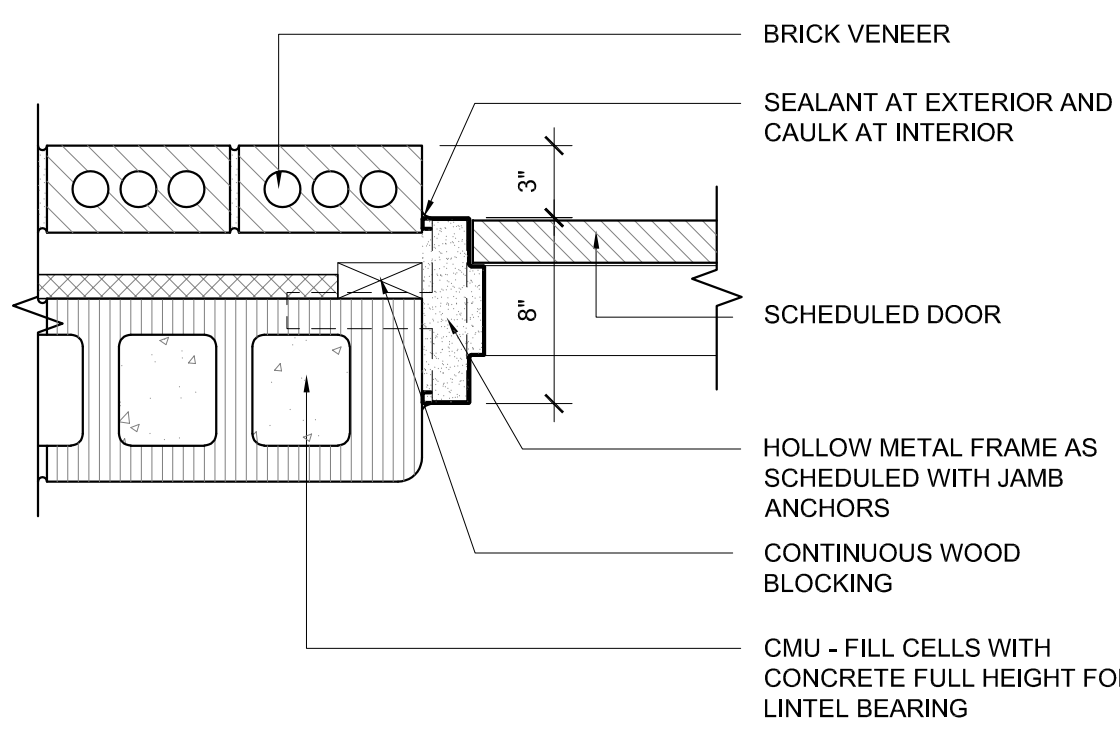
**10 WINDOW DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



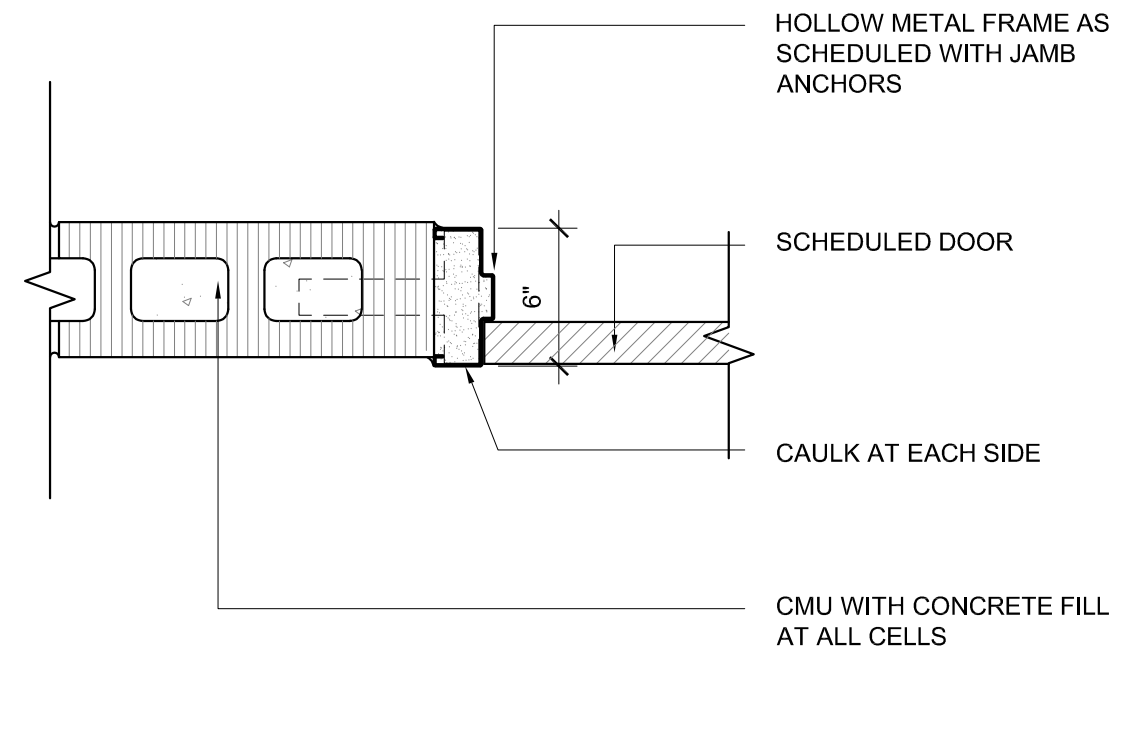
**13 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



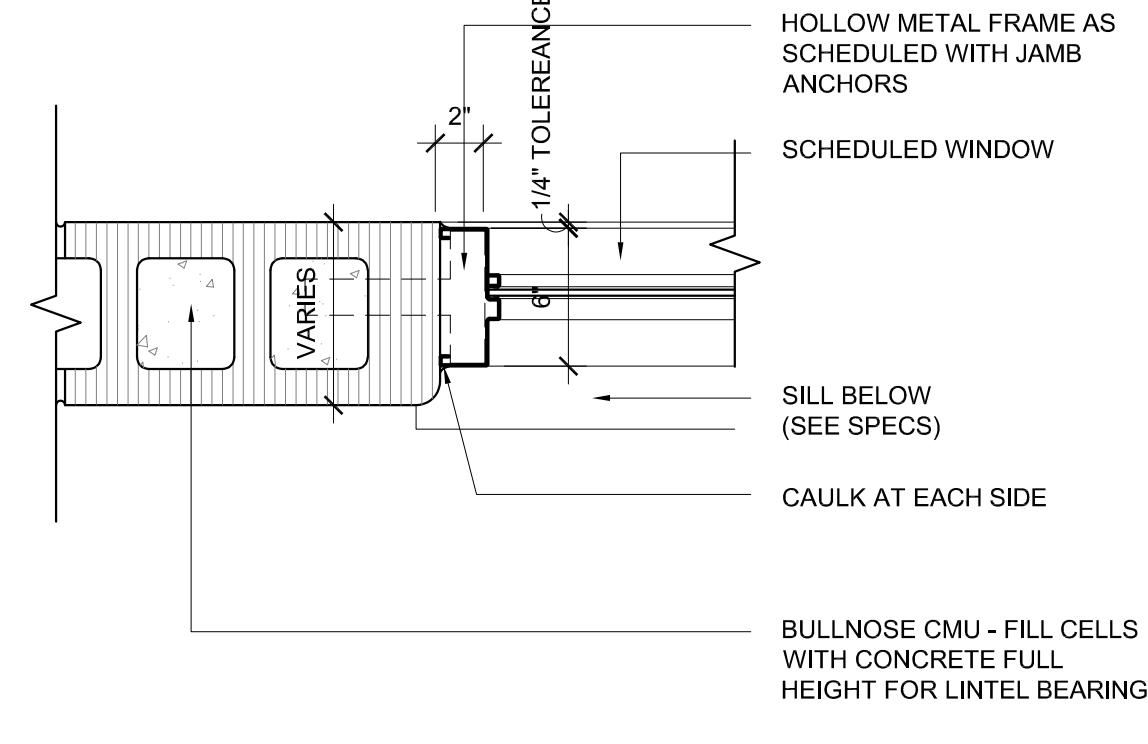
**16 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



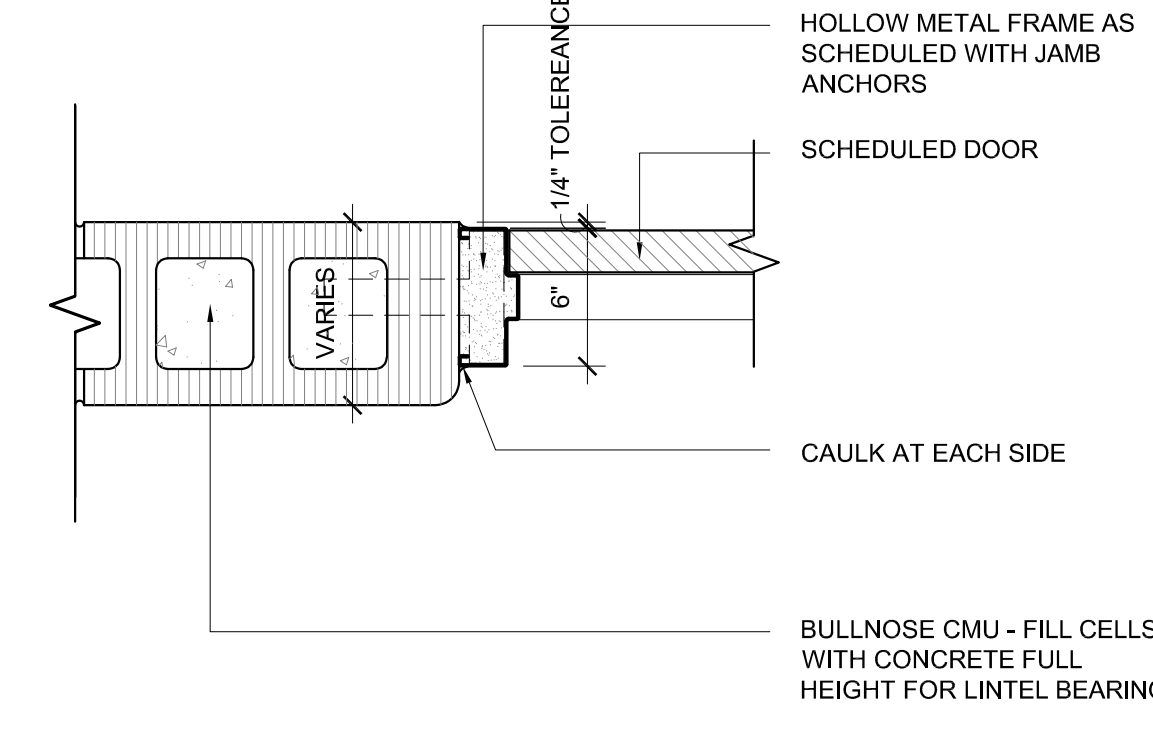
**2 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" JAMB



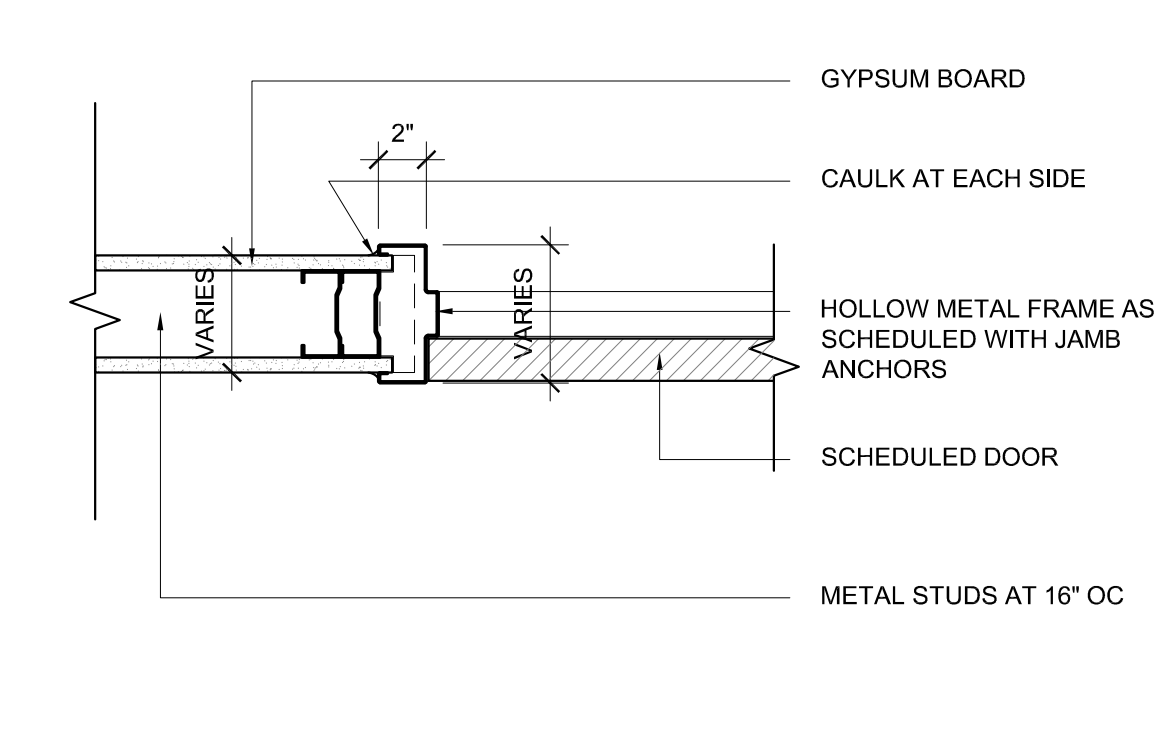
**7 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" JAMB



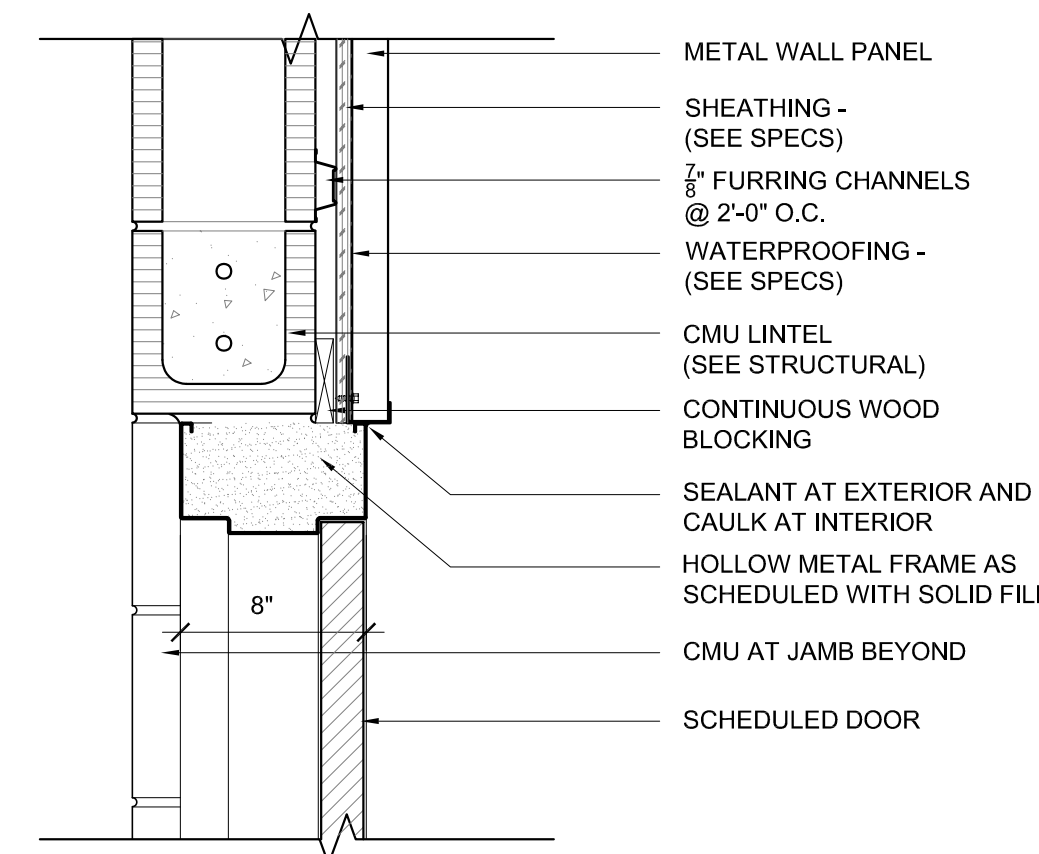
**11 WINDOW DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



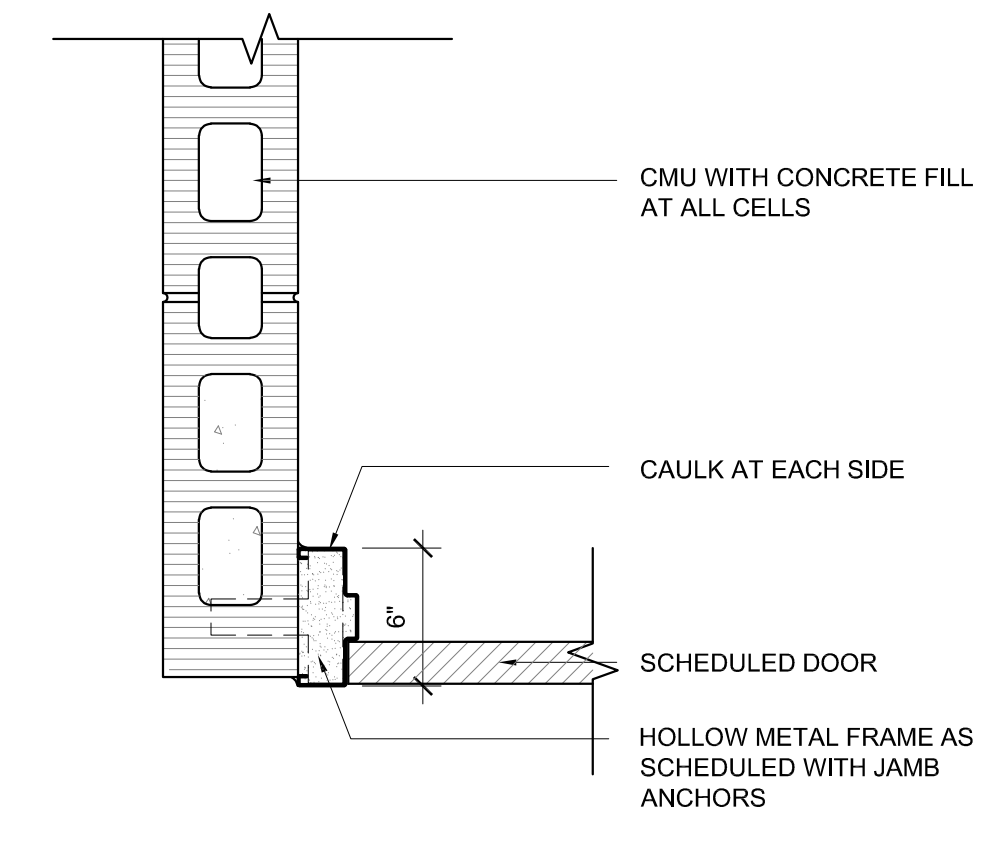
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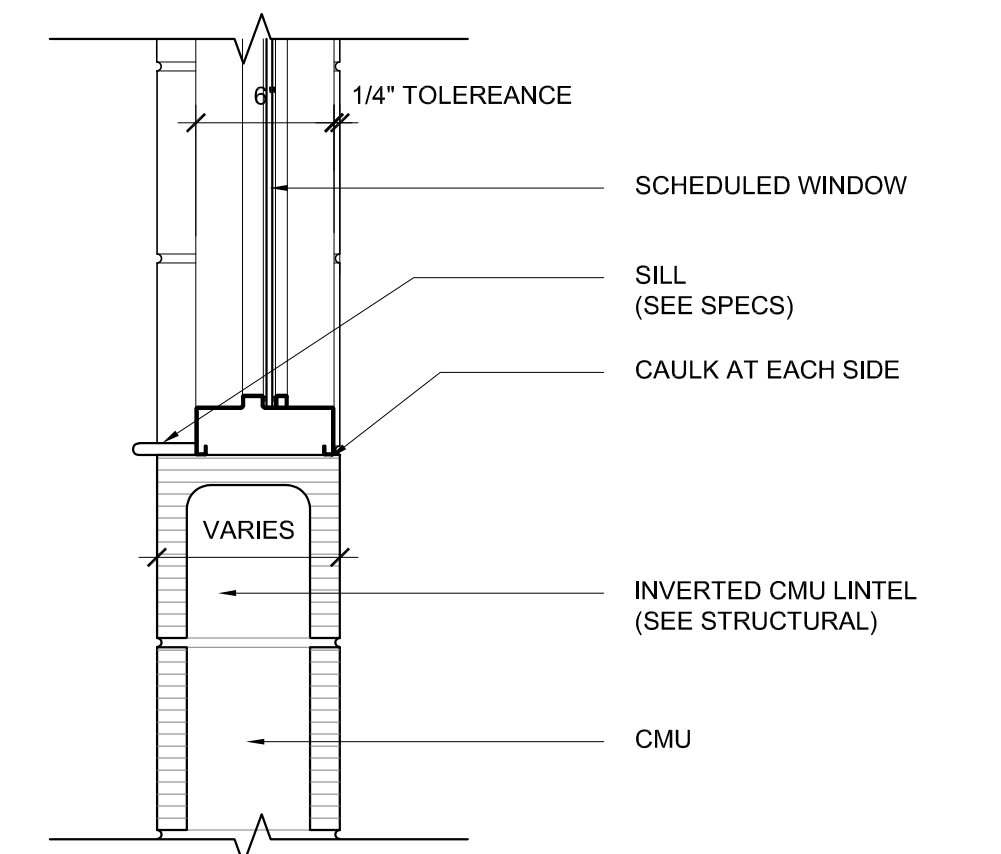
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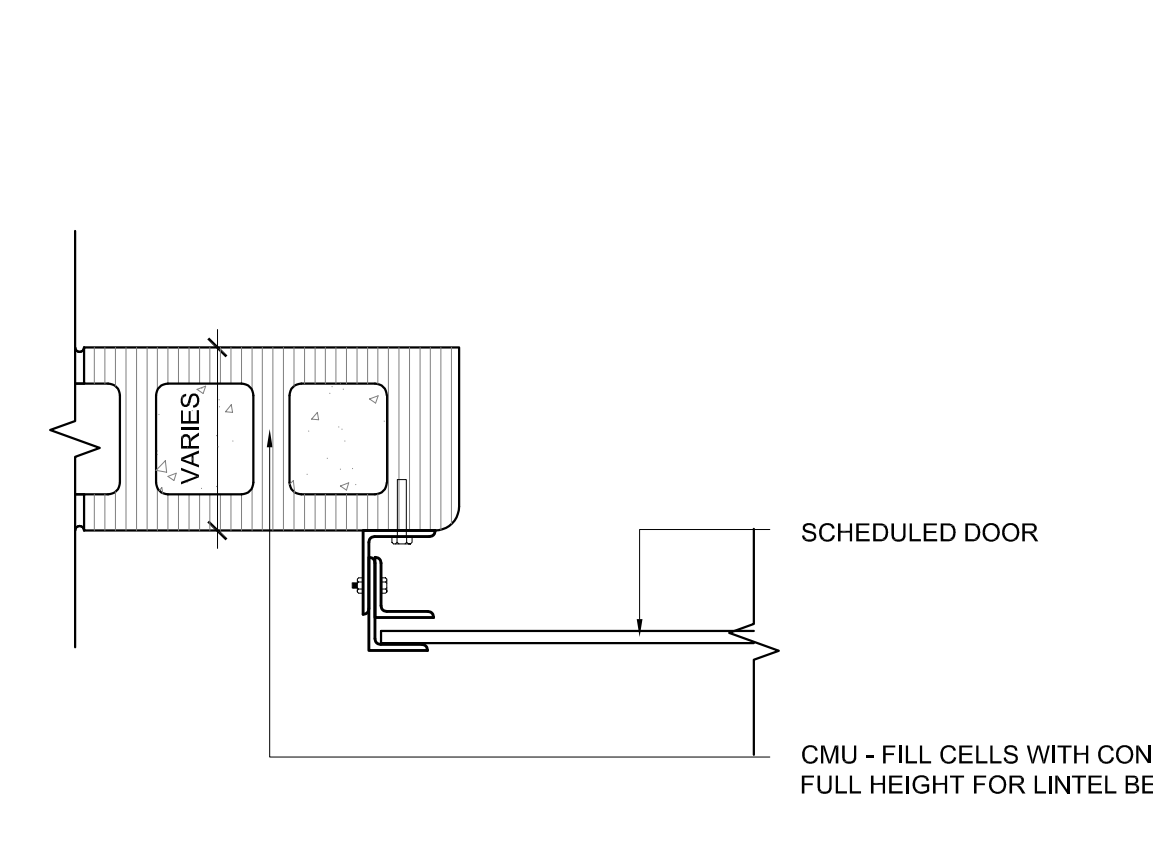
**3 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



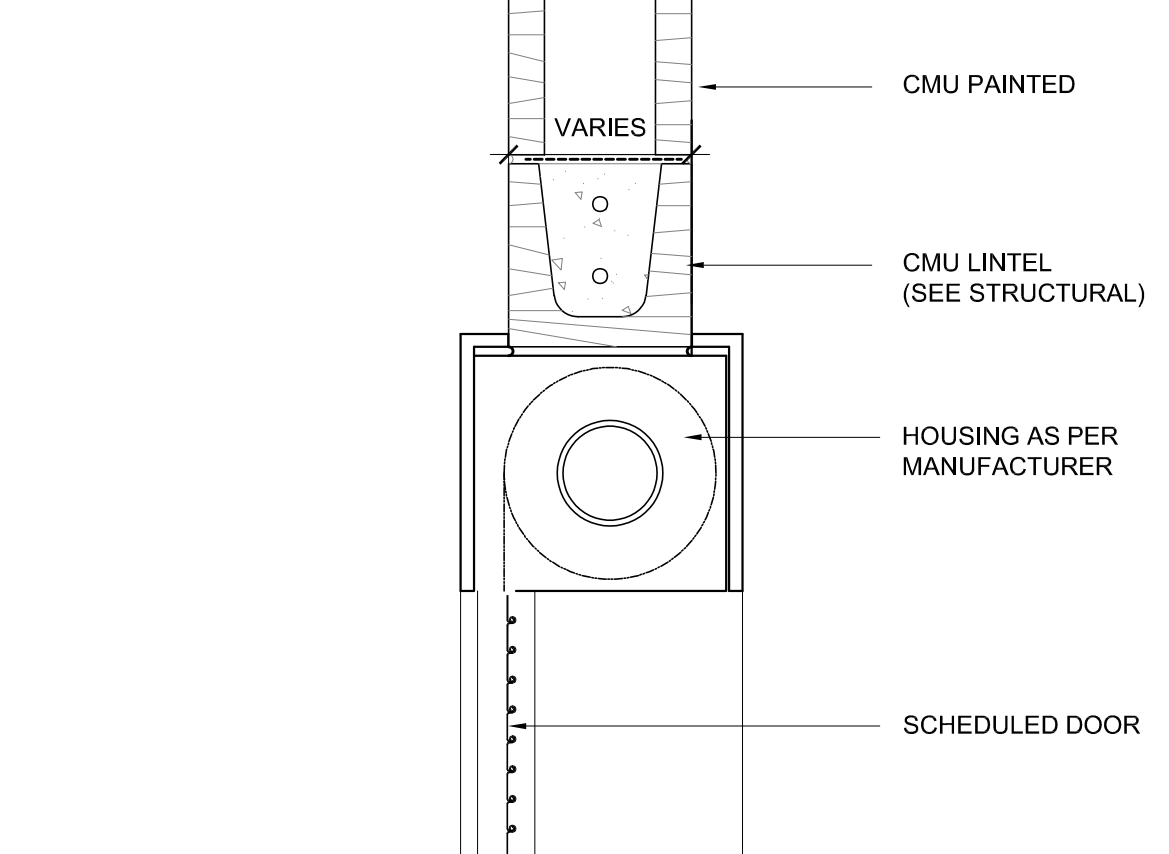
**8 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" JAMB



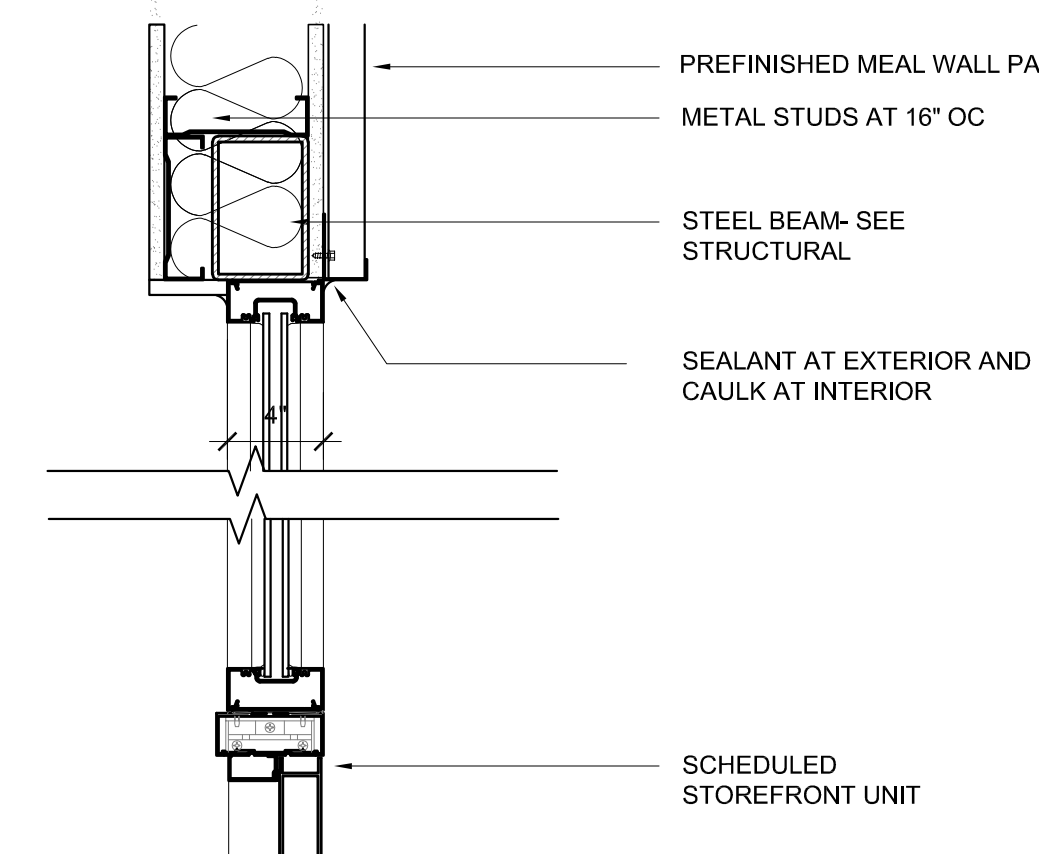
**12 WINDOW DETAIL**  
SCALE: 1 1/2"=1'-0" JAMB



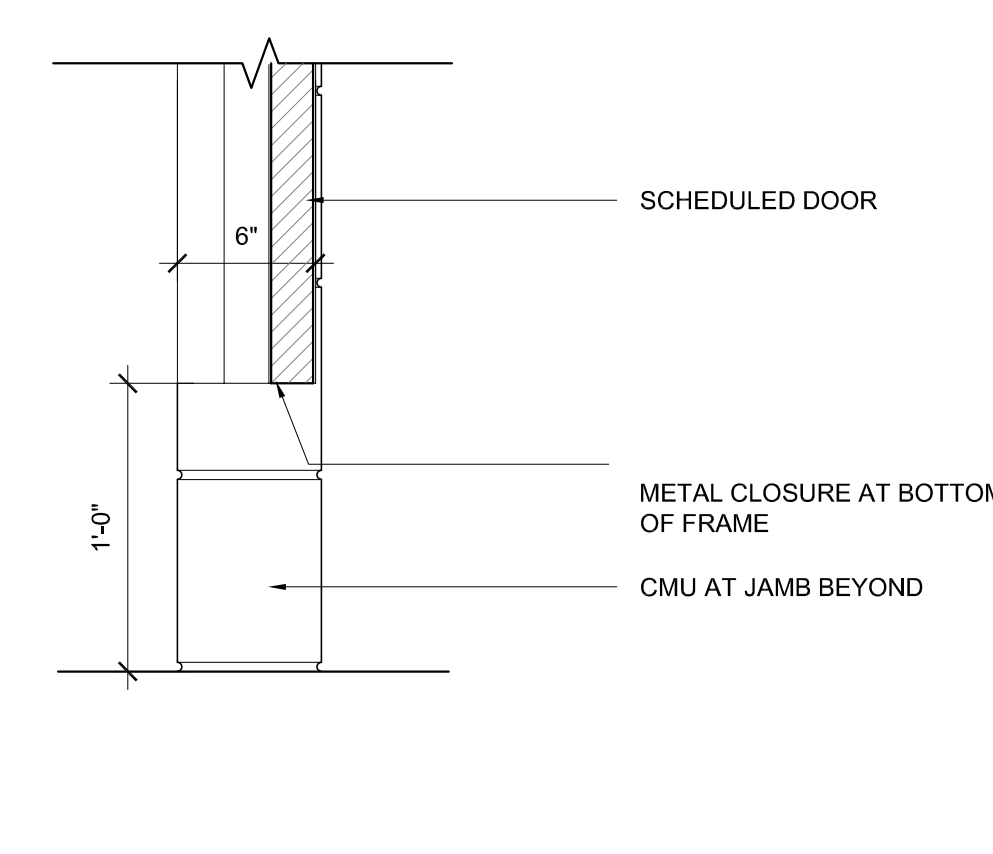
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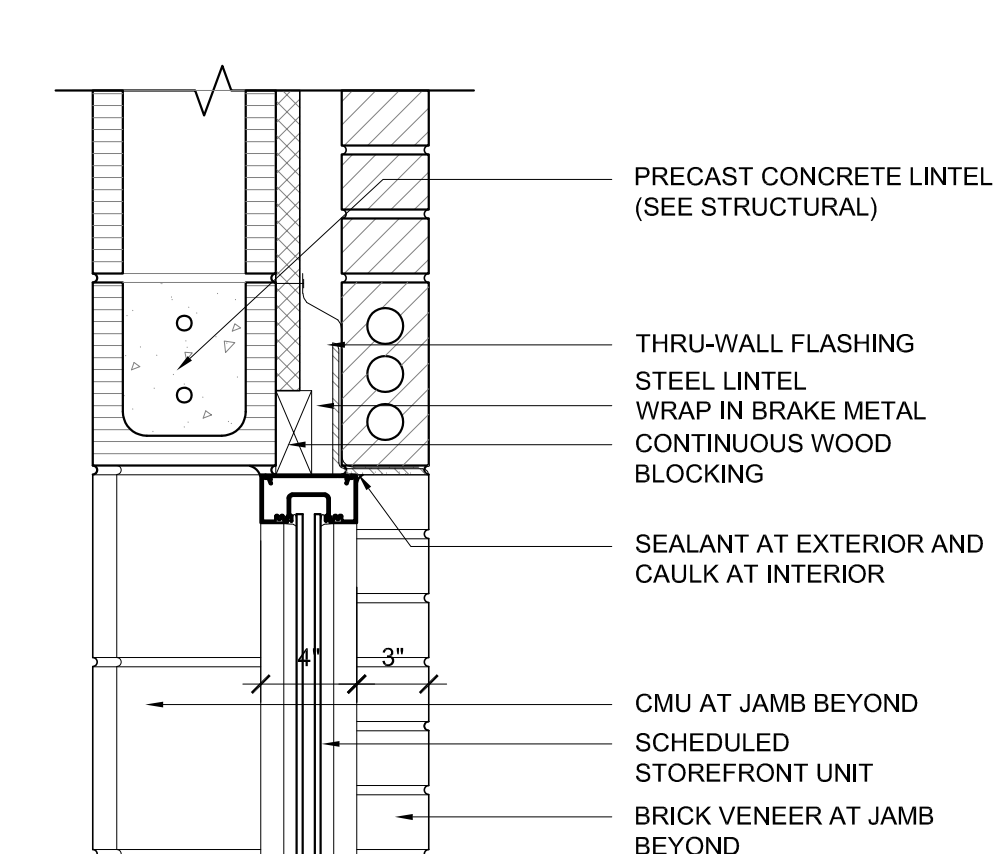
**18 ROOL UP DOOR DETAIL**  
SCALE: 1 1/2"=1'-0"



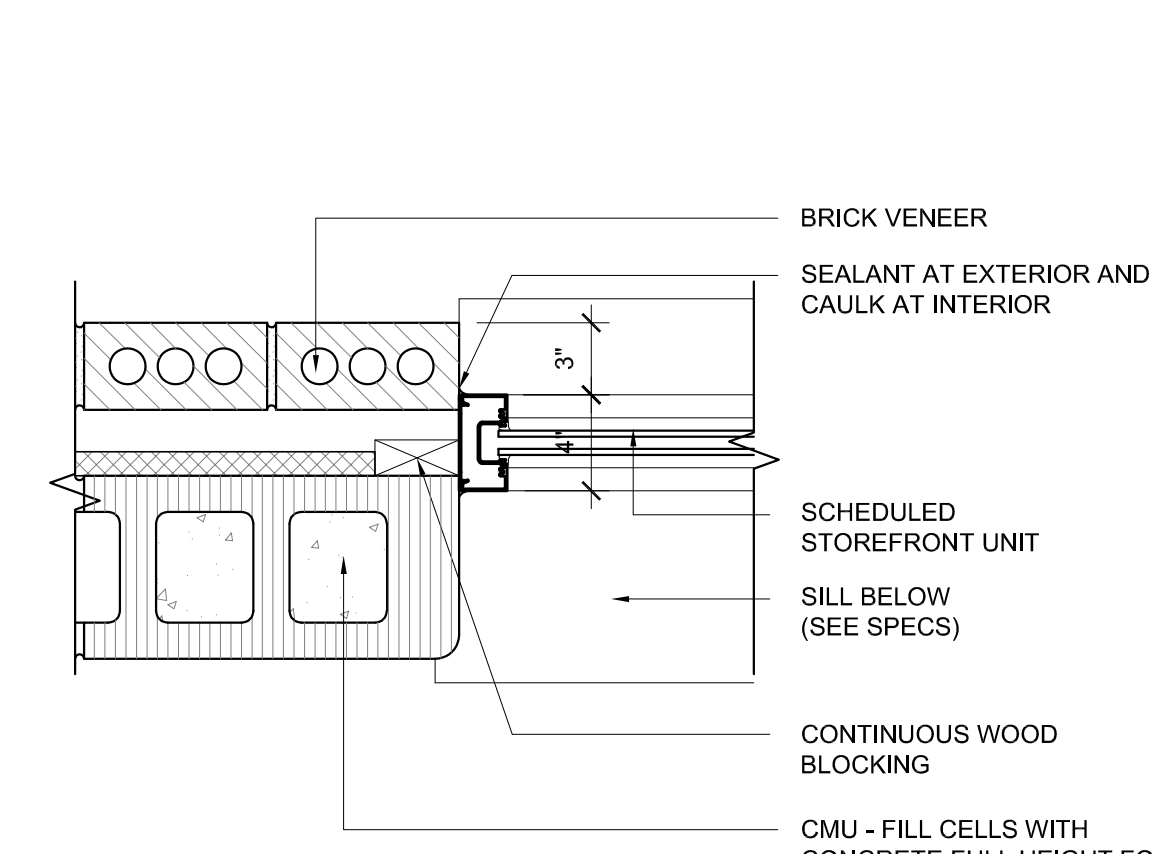
**4 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



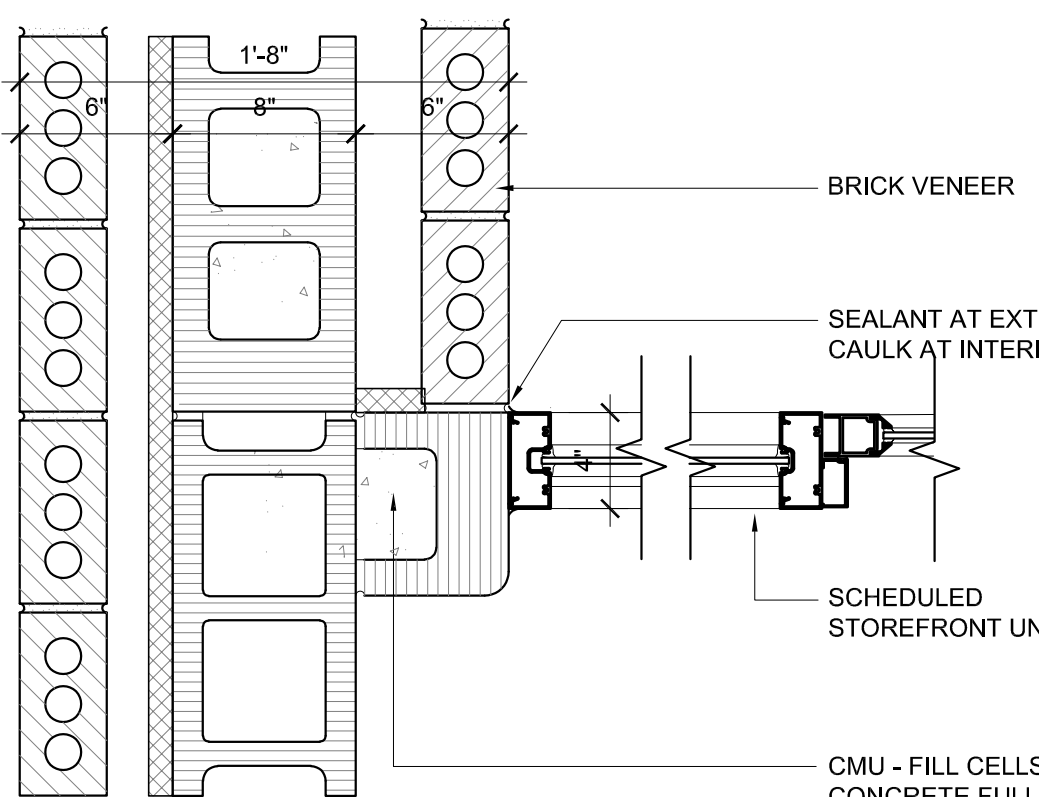
**9 DOOR DETAIL**  
SCALE: 1 1/2"=1'-0" SILL



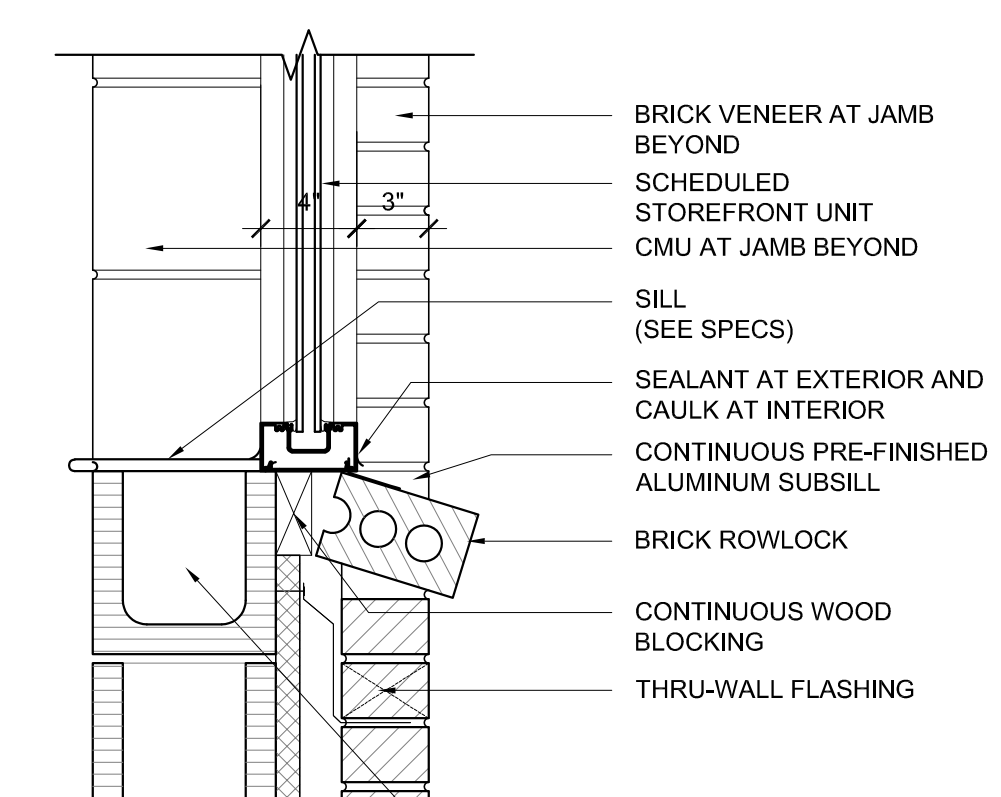
**19 WINDOW DETAIL**  
SCALE: 1 1/2"=1'-0" HEAD



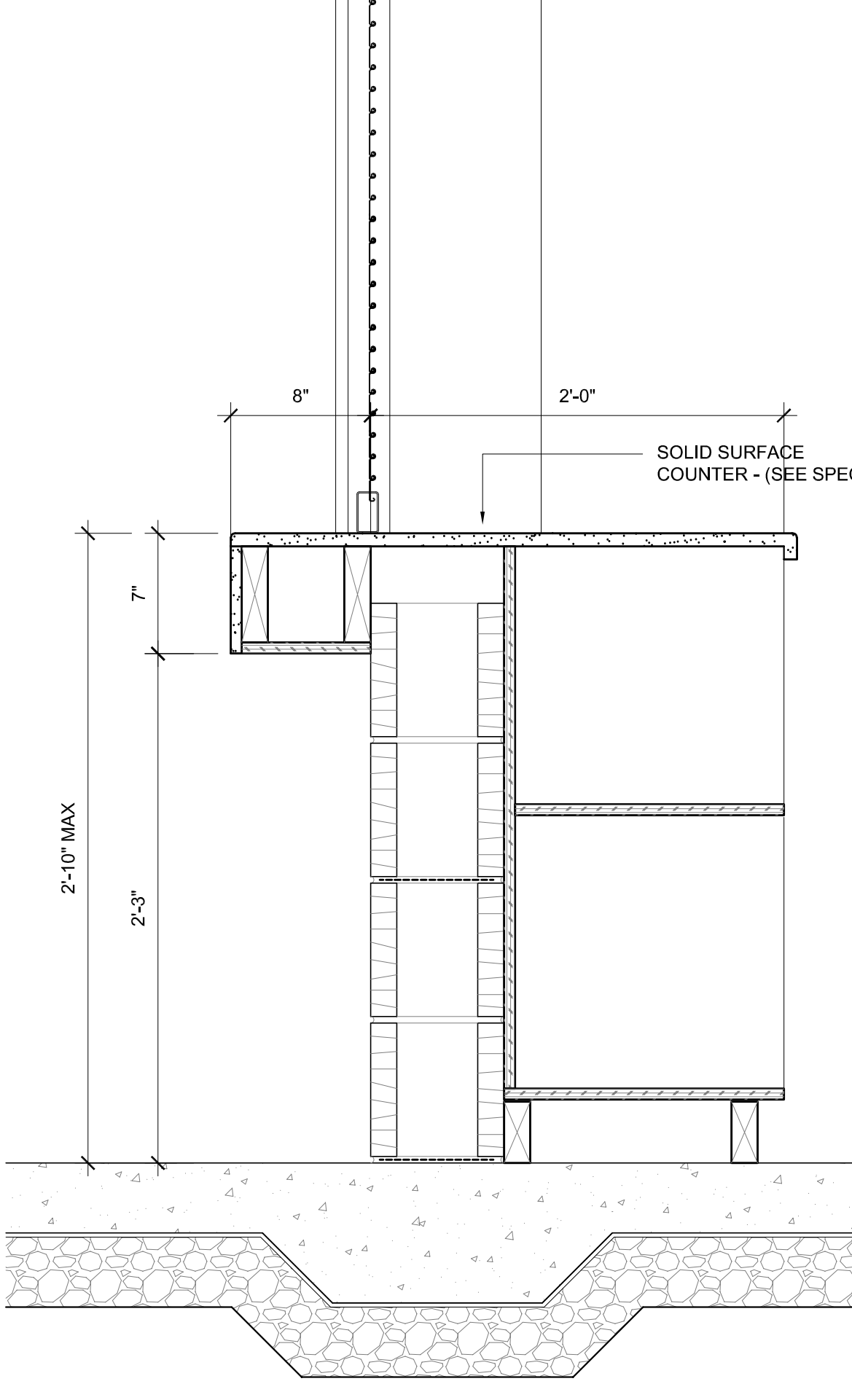
**21 WINDOW DETAIL**  
SCALE: 1 1/2"=1'-0" JAMB



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



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



**18 ROOL UP DOOR DETAIL**  
SCALE: 1 1/2"=1'-0"

FOR THE  
**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
**BLOUNT COUNTY BOARD OF EDUCATION**  
ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
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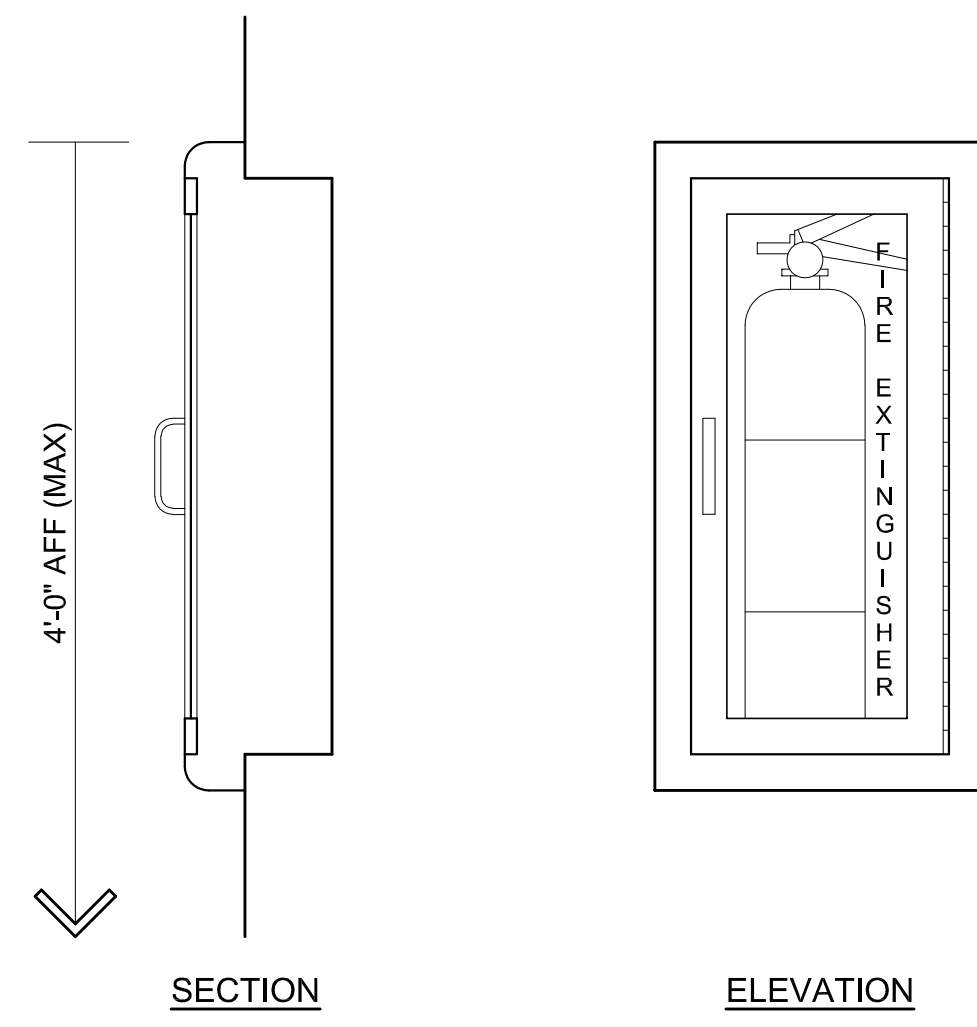
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



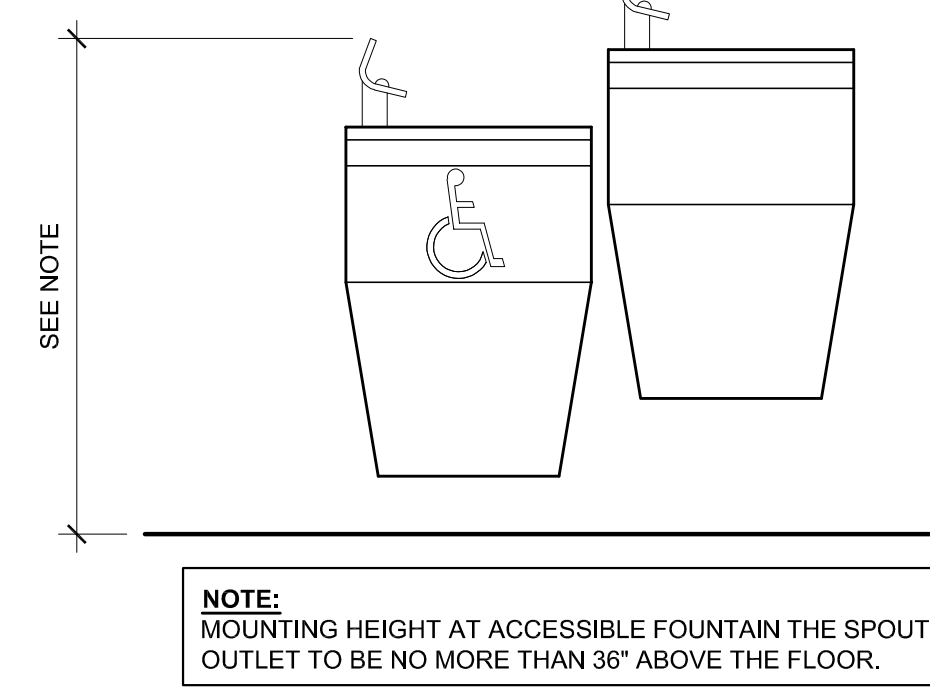
SHEET TITLE : DOOR DETAILS  
MCKEE JOB # : 24-169  
DRAWN BY : SKL  
DATE : 9/18/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A8.2**

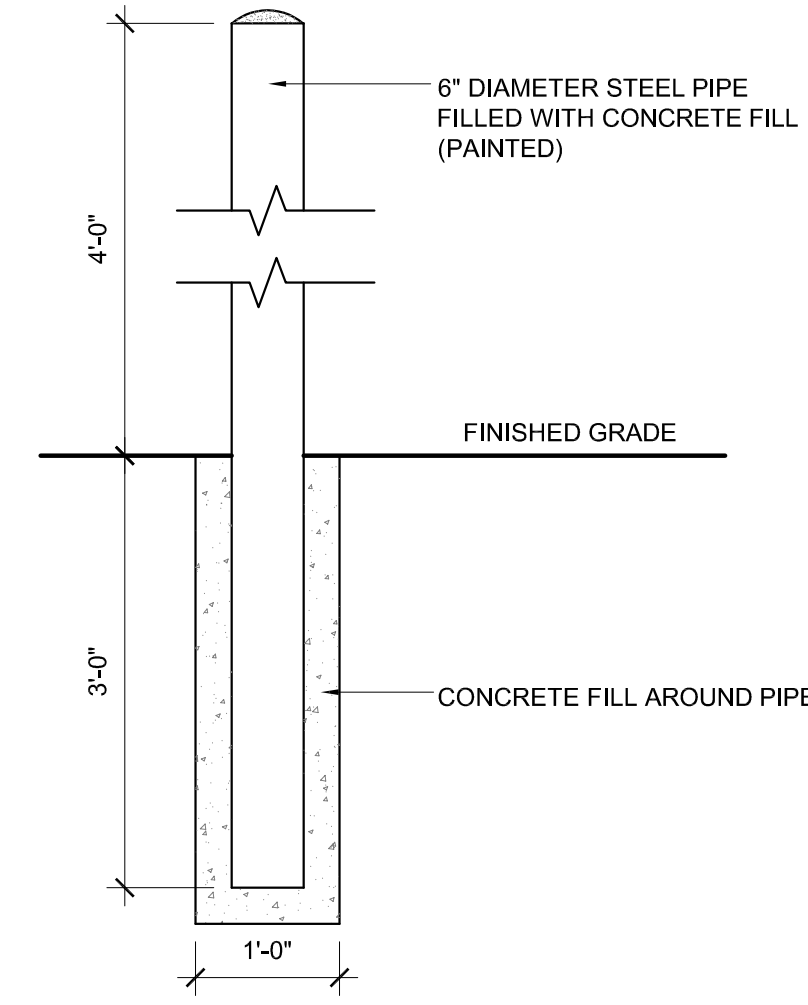




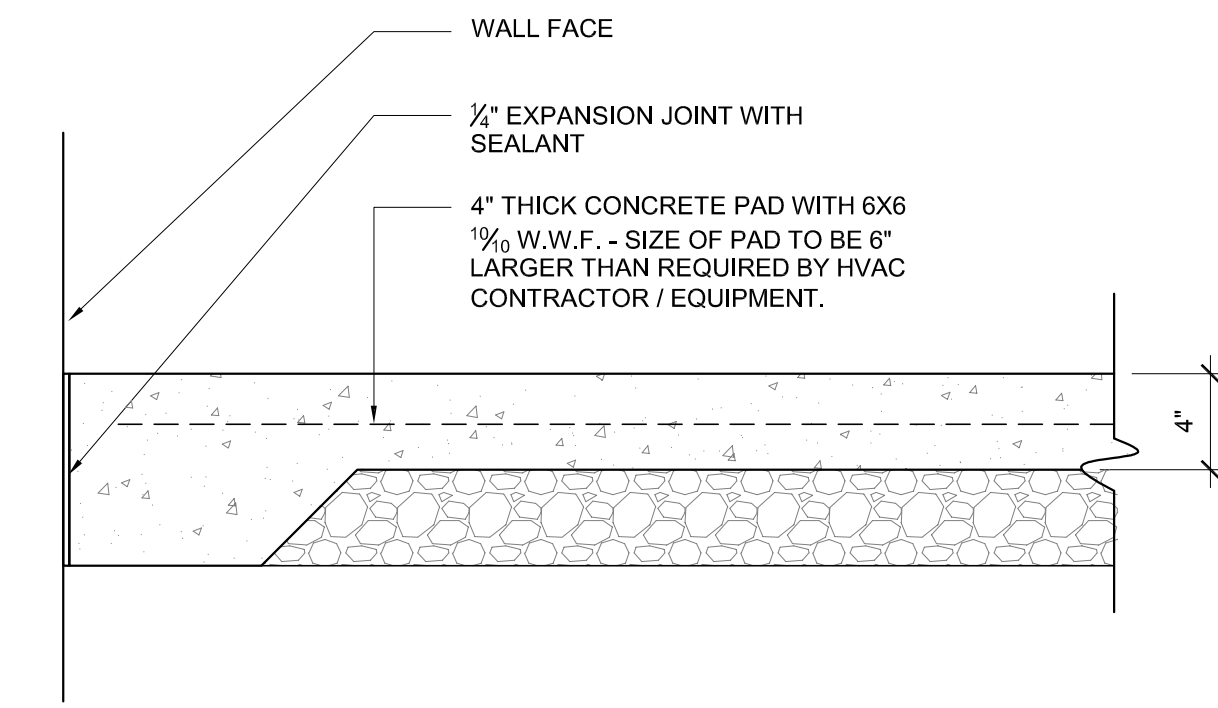
**FIRE EXTINGUISHER CABINET (FEC)**  
SCALE: 1 1/2" - 1'-0"



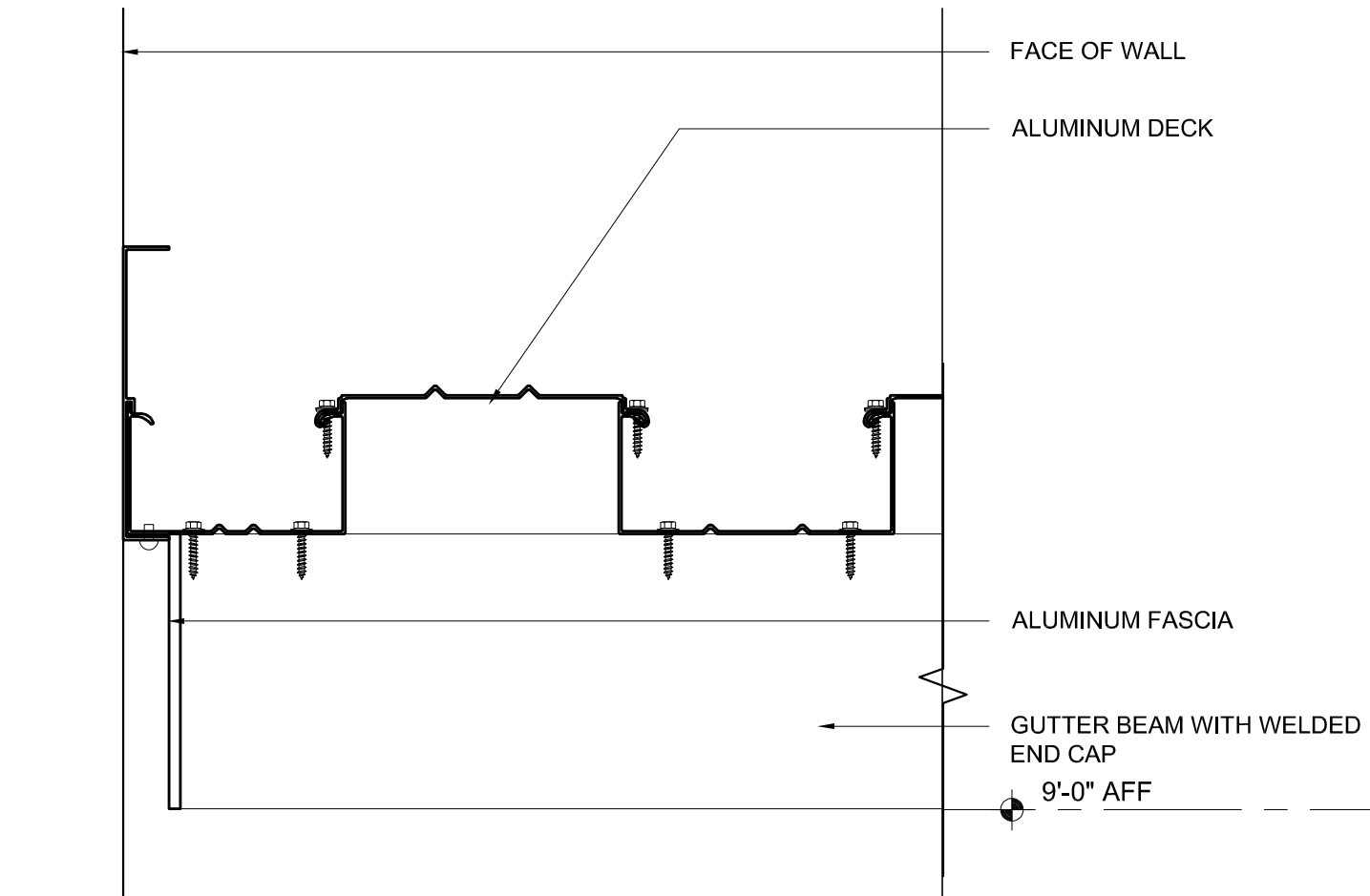
**ELECTRIC WATER COOLER (EWC)**  
SCALE: 1 1/2" - 1'-0"



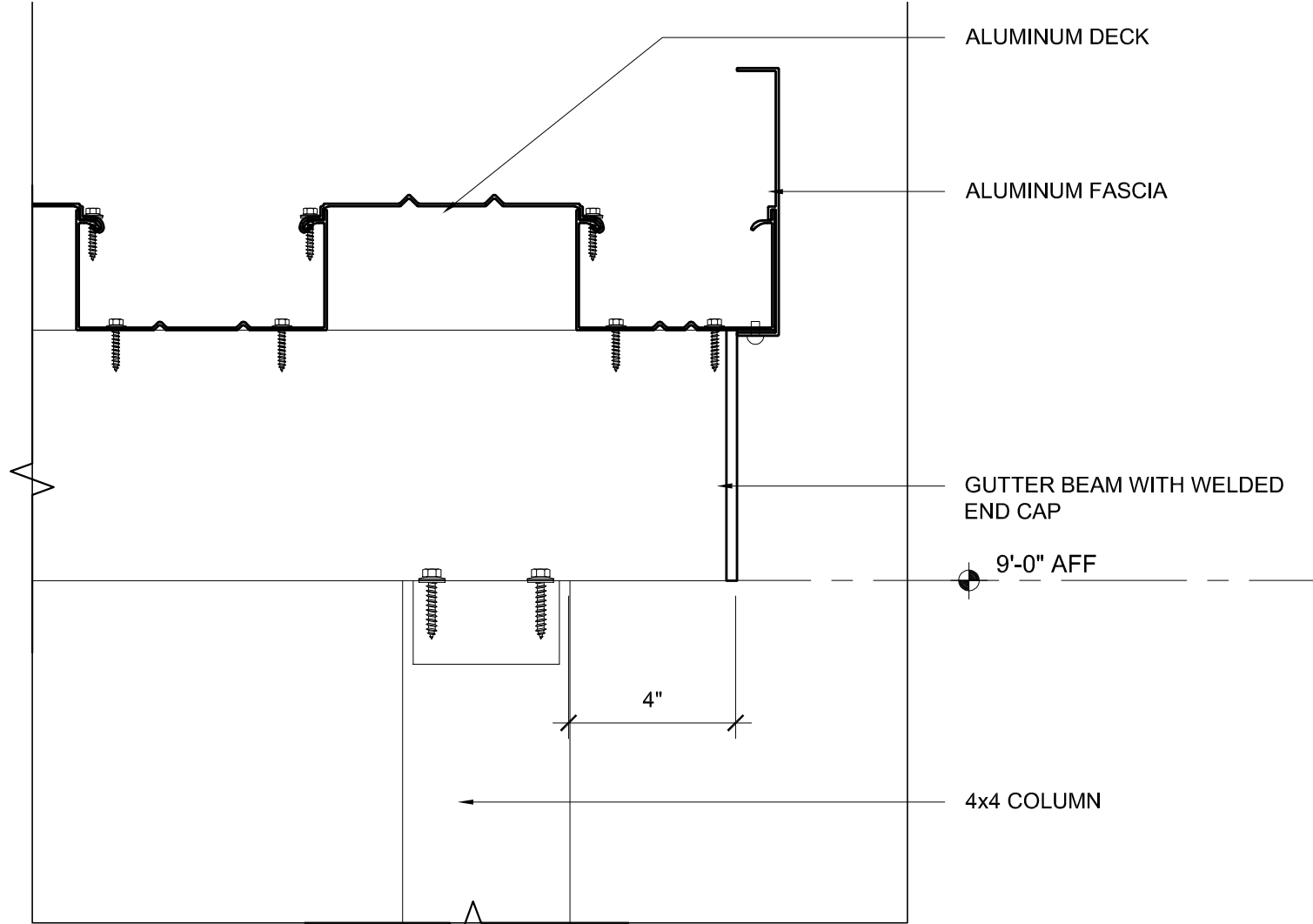
**PIPE BOLLARD (PB)**  
SCALE: 1 1/2" - 1'-0"



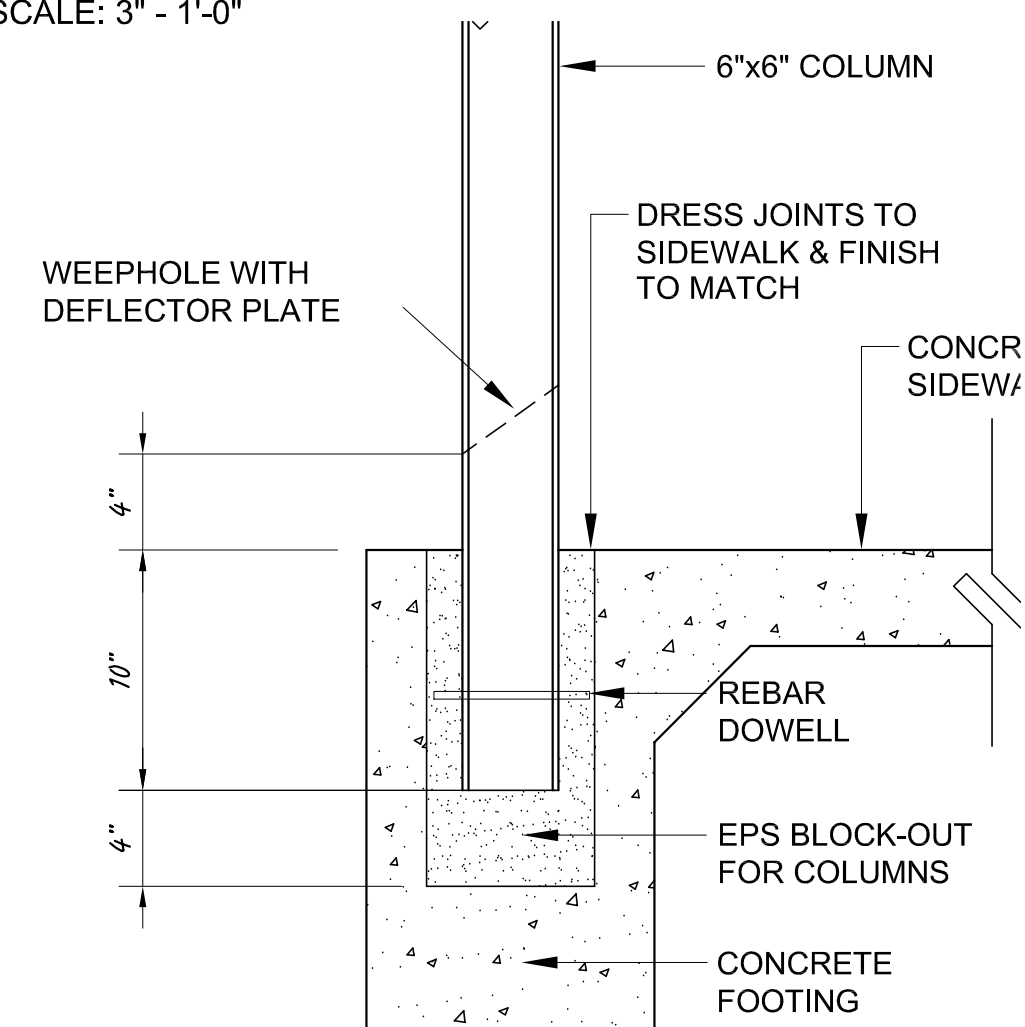
**HVAC EQUIPMENT PAD (CEP)**  
SCALE: 1 1/2" - 1'-0"



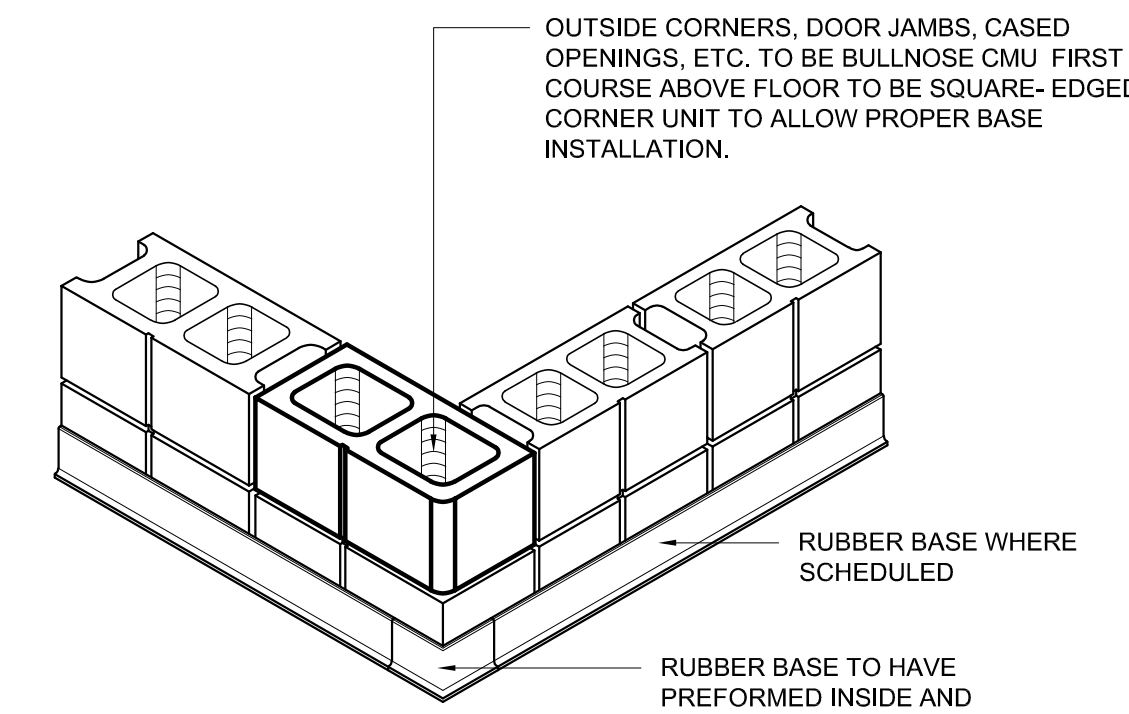
**COVERED WALKWAY DETAIL**  
SCALE: 3" - 1'-0"



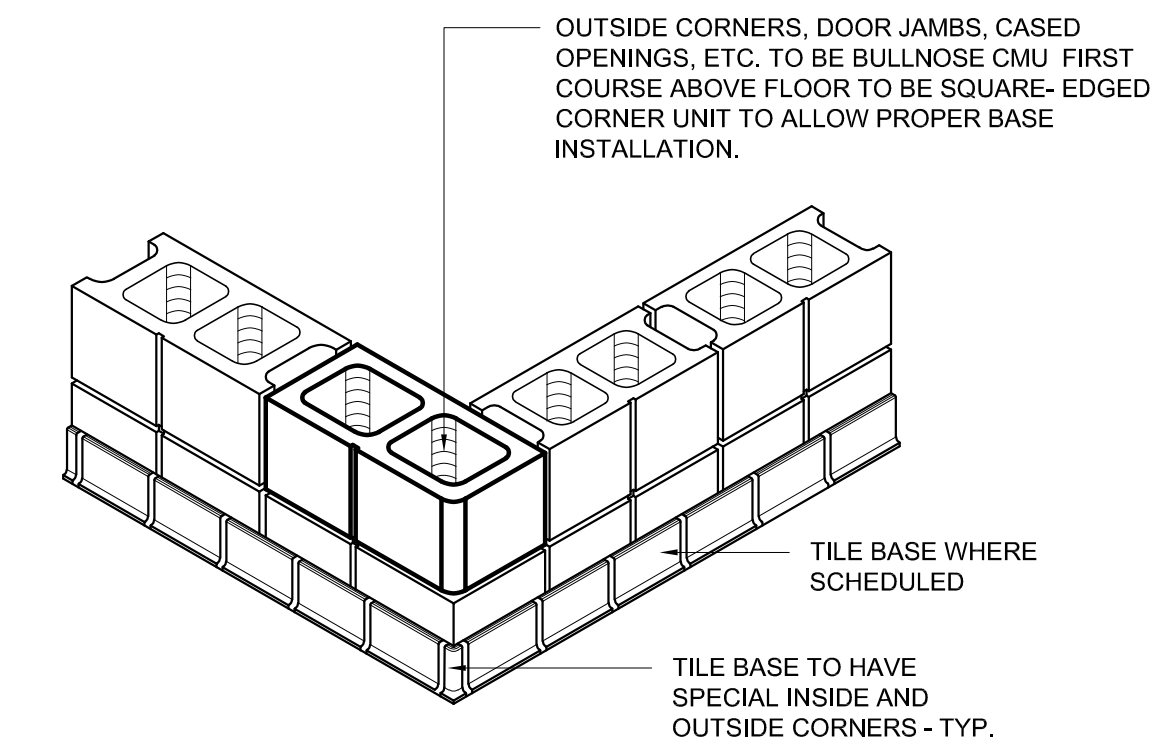
**COVERED WALKWAY DETAIL**  
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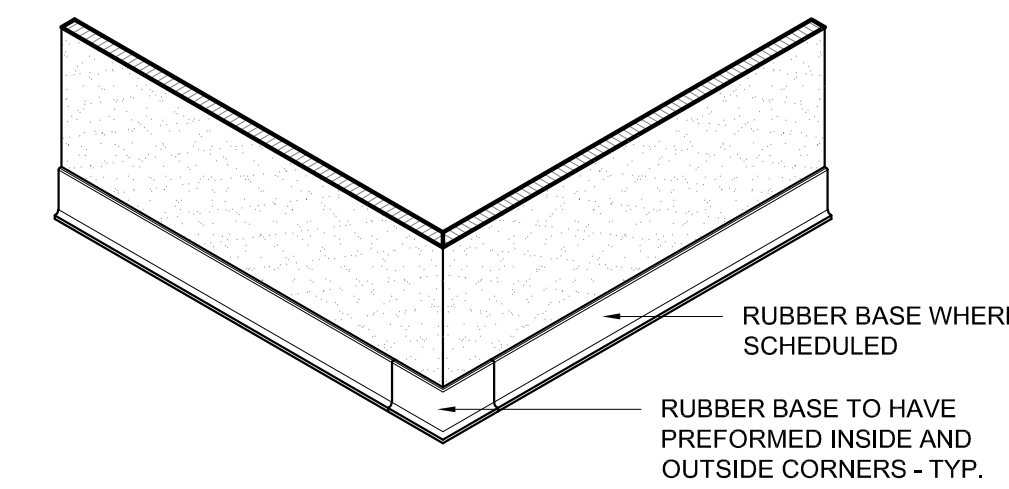
**CANOPY COLUMN DETAIL**  
SCALE: 1 1/2" - 1'-0"



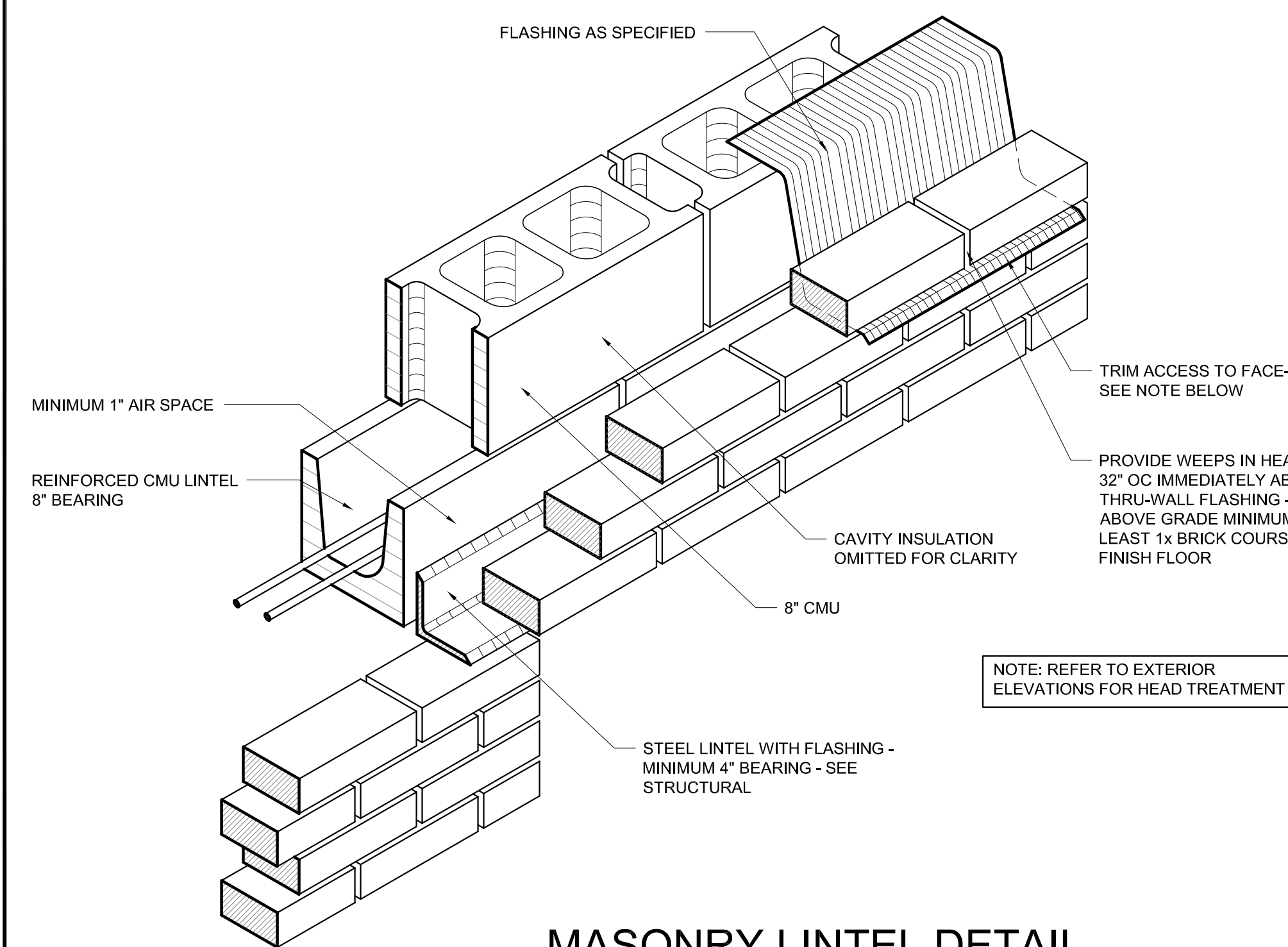
**RUBBER BASE DETAIL**  
SCALE: 3/4" - 1'-0"



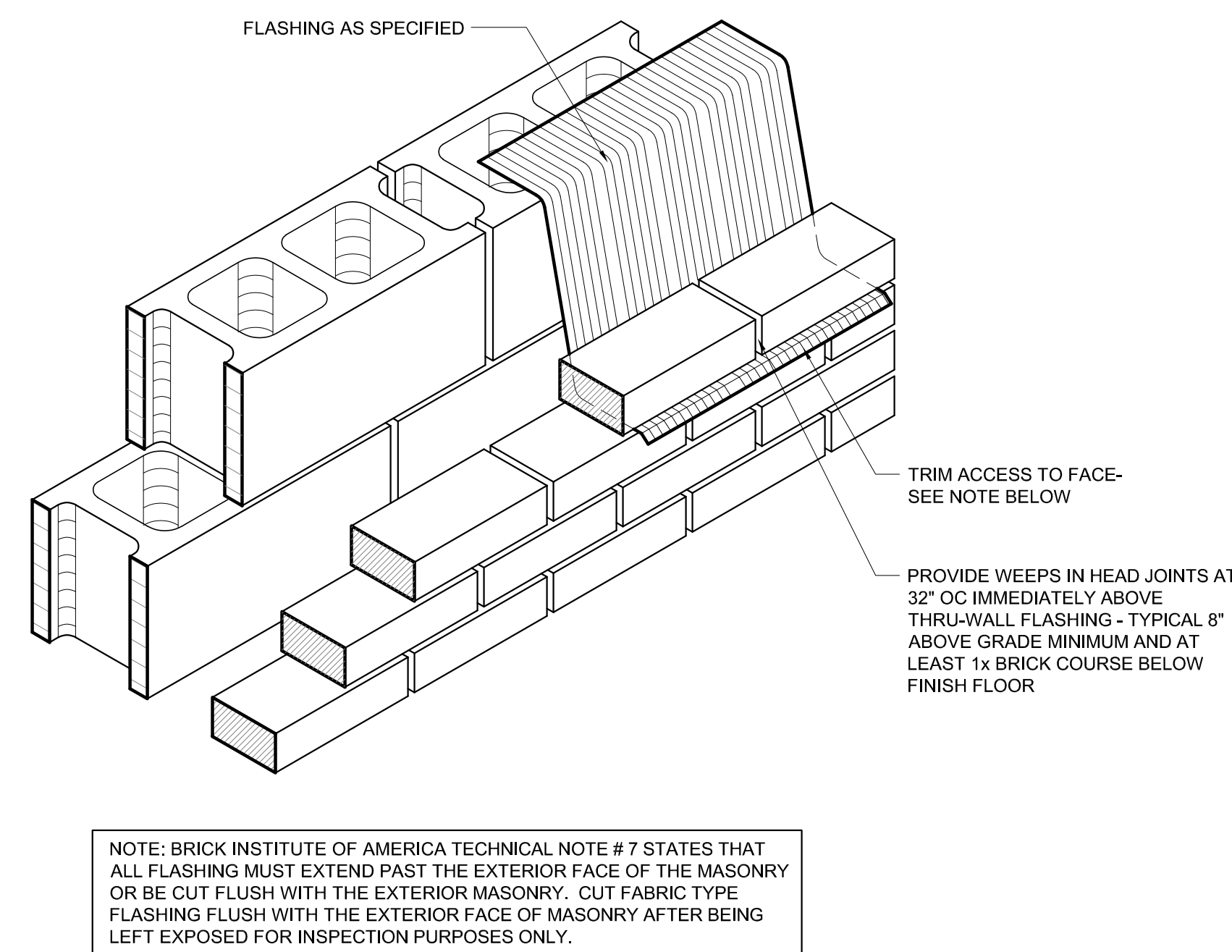
**HARD TILE DETAIL**  
SCALE: 3/4" - 1'-0"



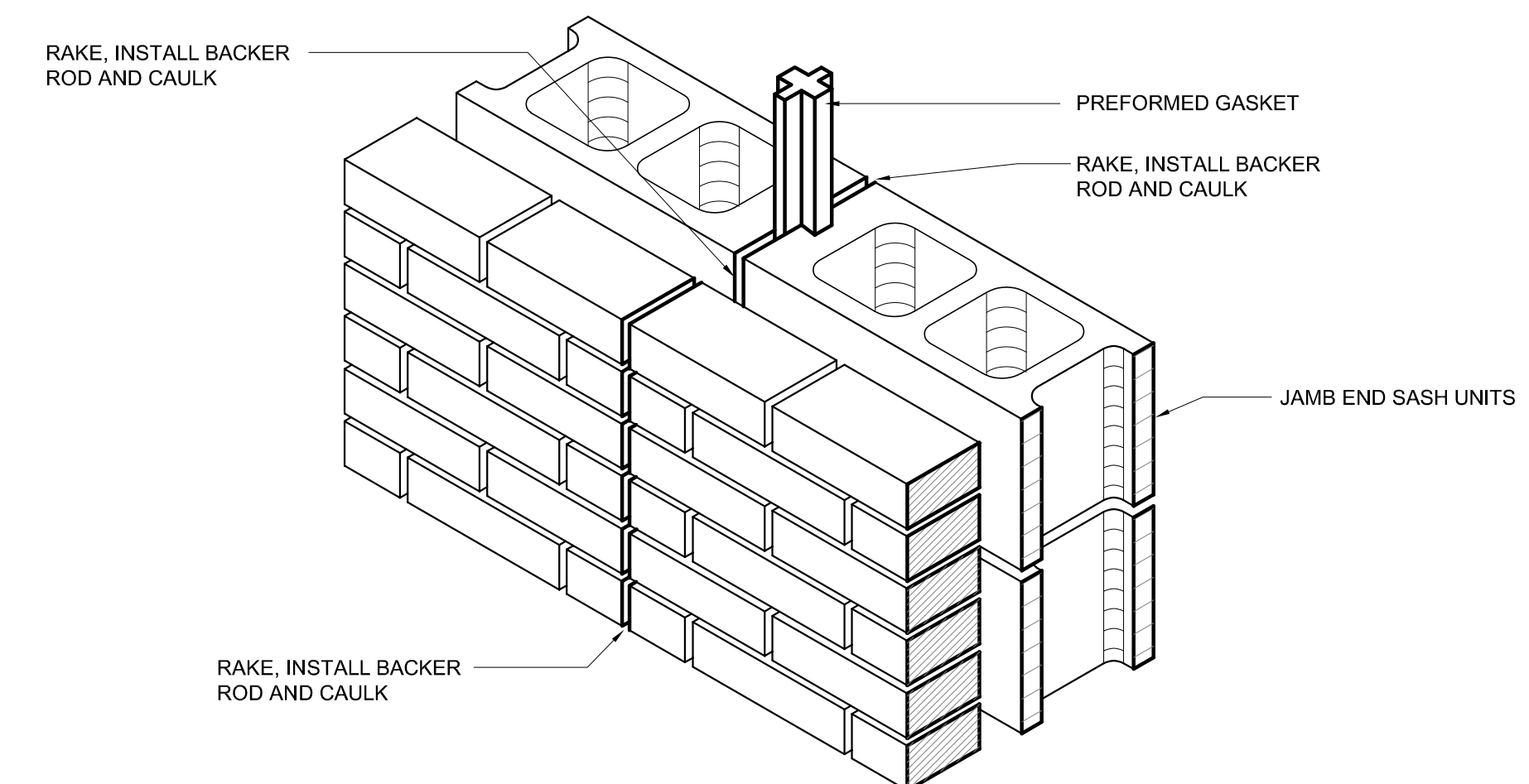
**RUBBER BASE DETAIL**  
SCALE: 3/4" - 1'-0"



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



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

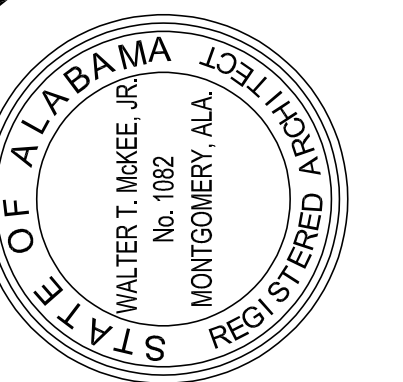


**MASONRY CONTROL JOINT DETAIL (MCJ)**  
SCALE: 1 1/2" - 1'-0"

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SHEET TITLE : MISCELLANEOUS DETAILS

MCKEE JOB # : 24-169

DRAWN BY : SKL

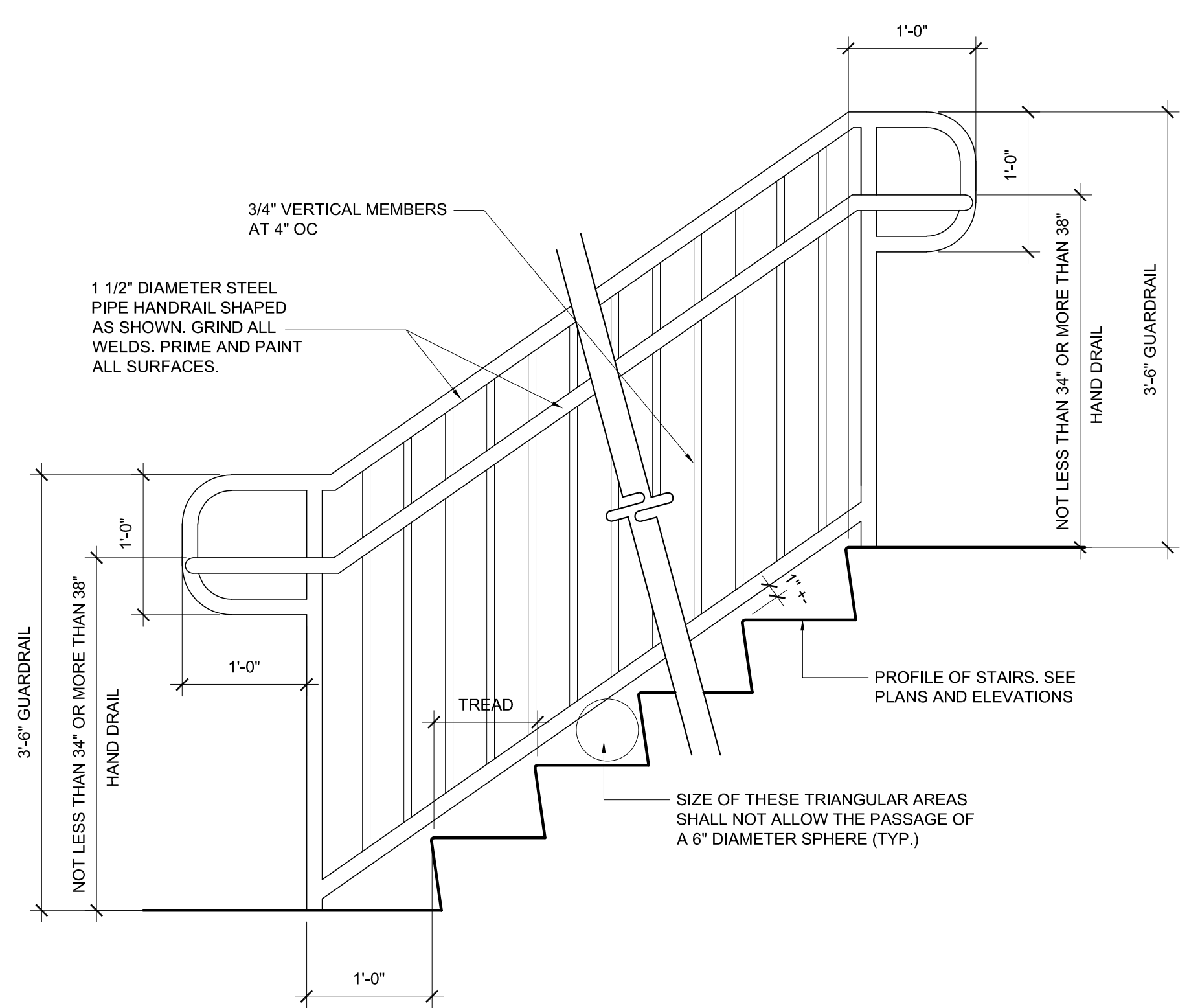
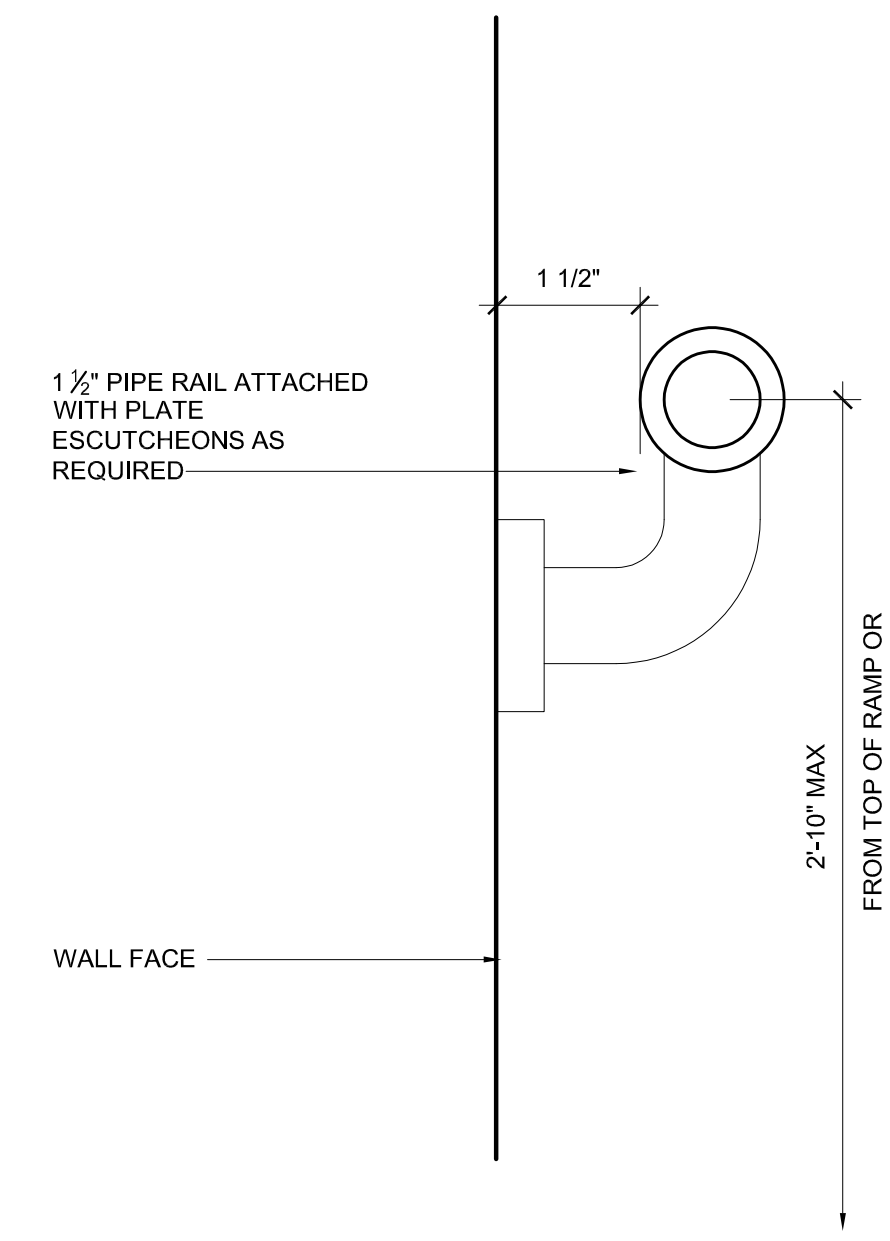
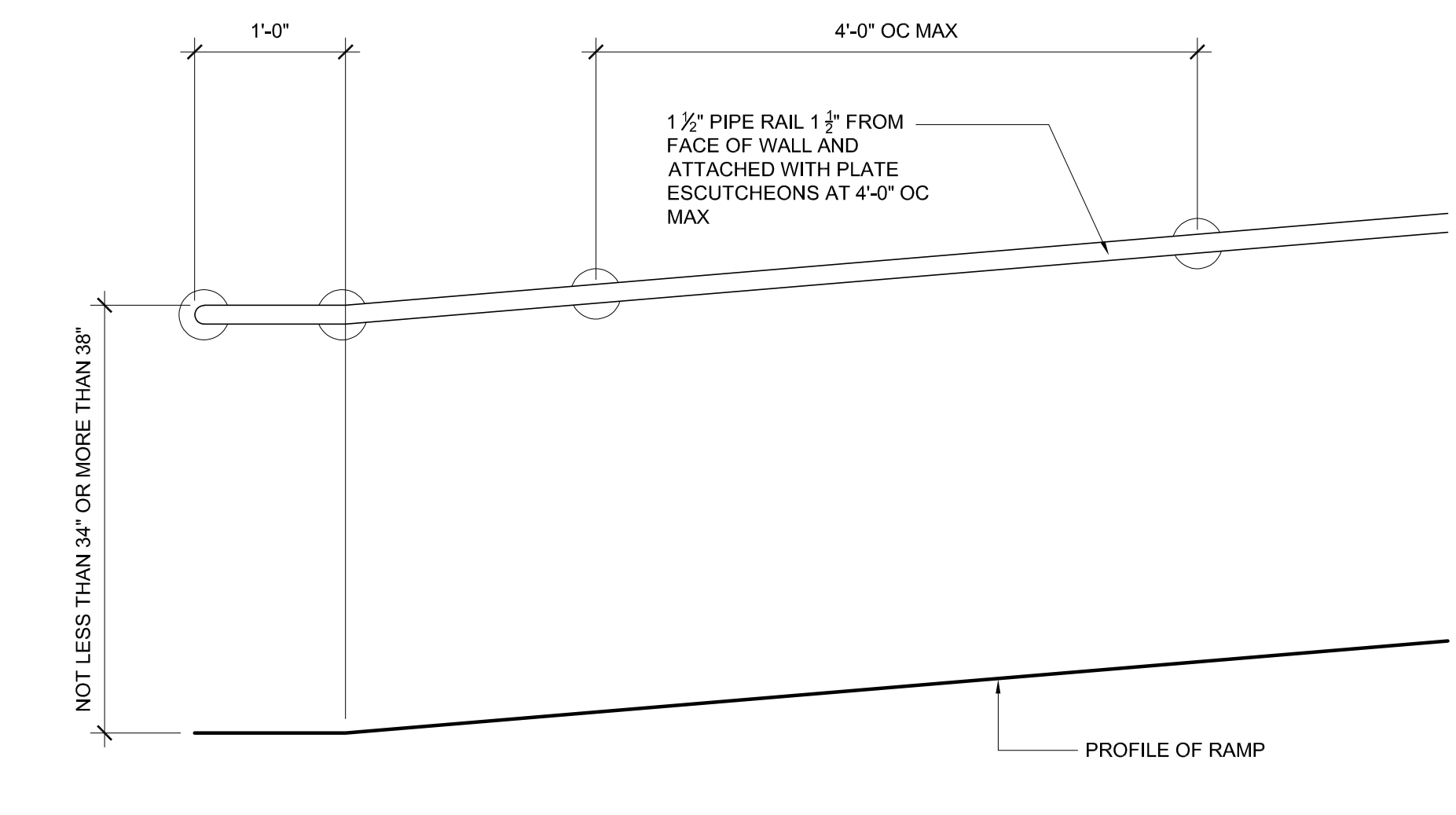
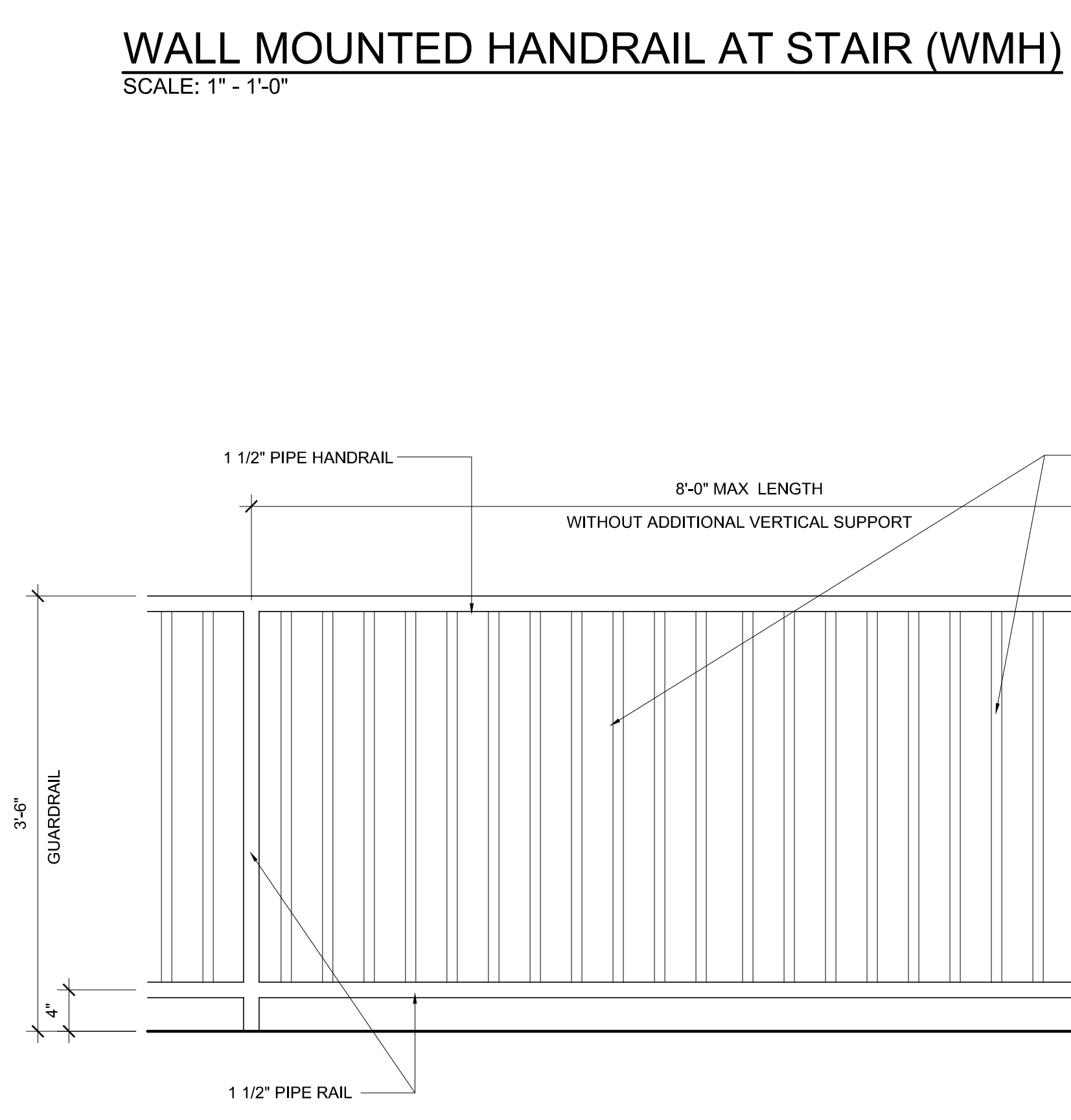
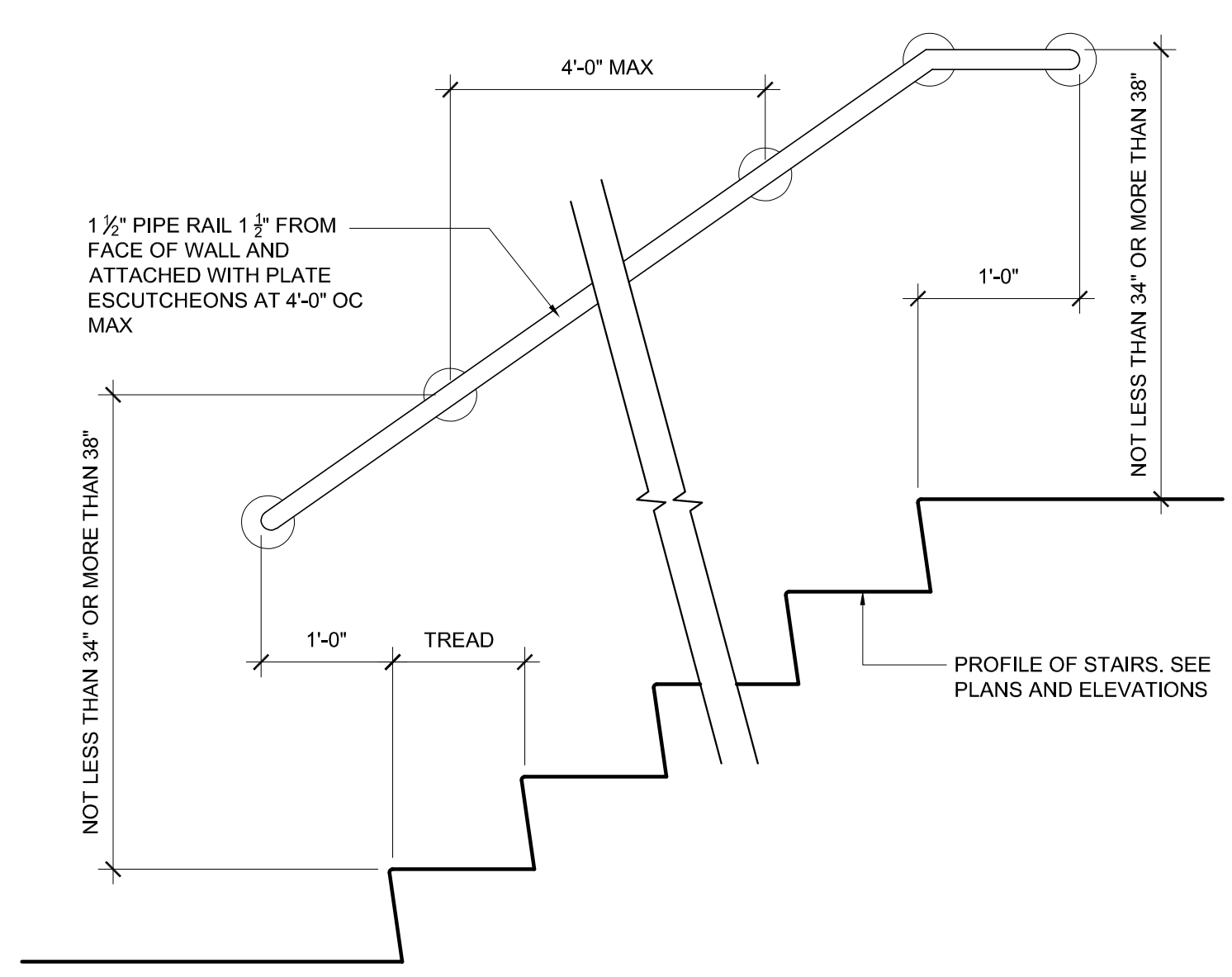
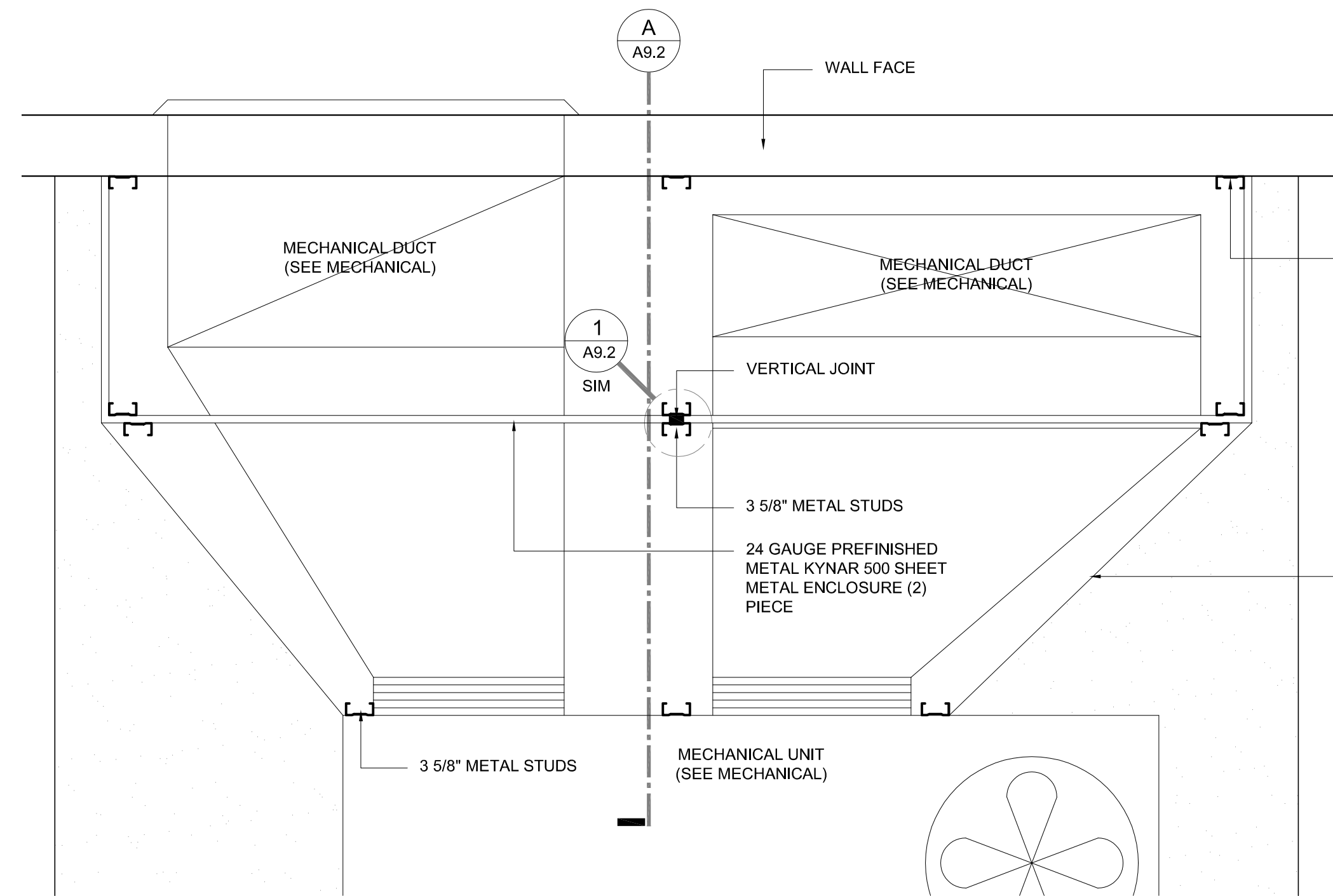
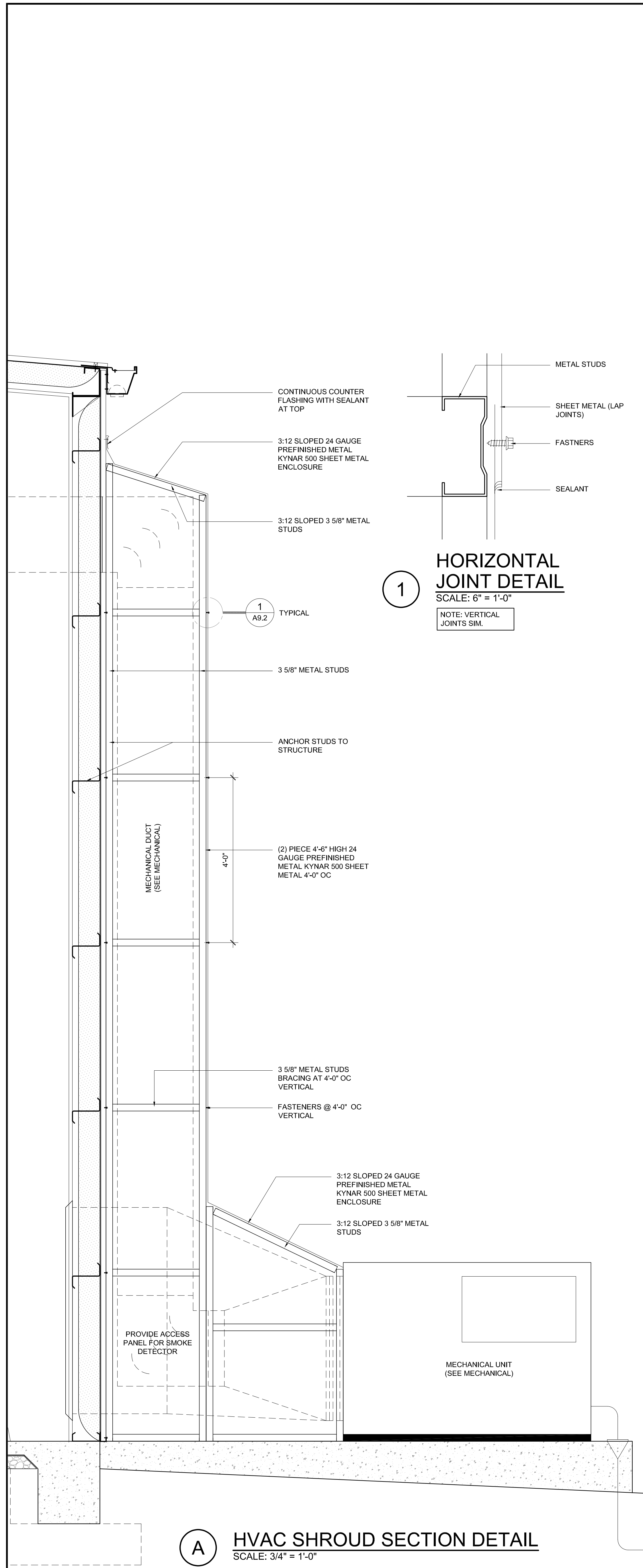
DATE : 9/18/24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **A9.1**



**CODE NOTES:**

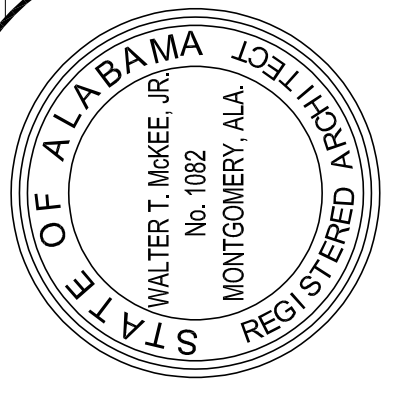
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 IN. AND NOT MORE THAN 2 IN. (IBC SEC 1012.3)
- INTERMEDIATE BALLISTERS, ORNAMENTAL PATTERNS OR PICKETS SHALL BE SPACED SUCH THAT A 4 IN. DIAMETER SPHERE SHALL NOT PASS THROUGH ANY OPENING. (IBC SEC 1013.3)
- WALL 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:**

- ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY W/ THE AMERICAN WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE.
- ALL WELDS ON METAL STAIRS ARE TO BE GROUND SMOOTH.
- PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.
- FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION. AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.
- 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.

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
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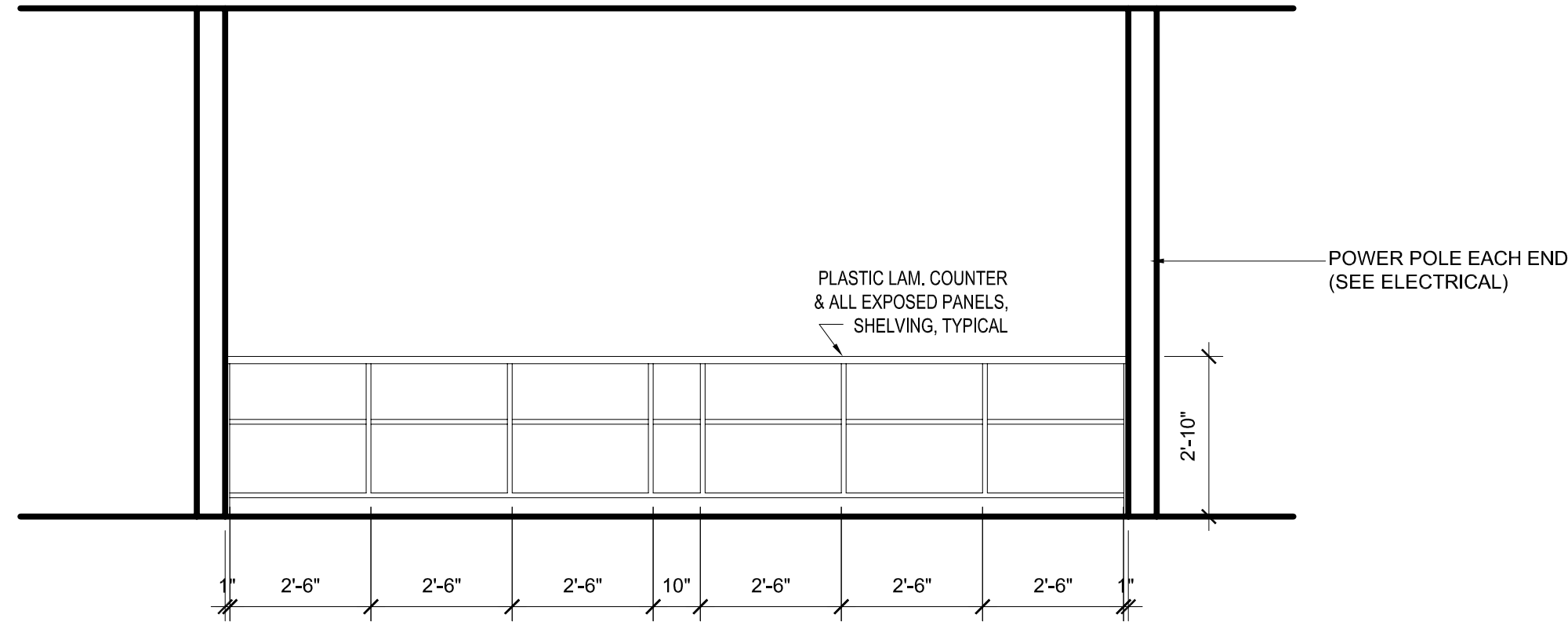


SHEET TITLE : MISCELLANEOUS DETAILS  
 MCKEE JOB # : 24-169  
 DRAWN BY : SKL  
 DATE : 9/18/24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

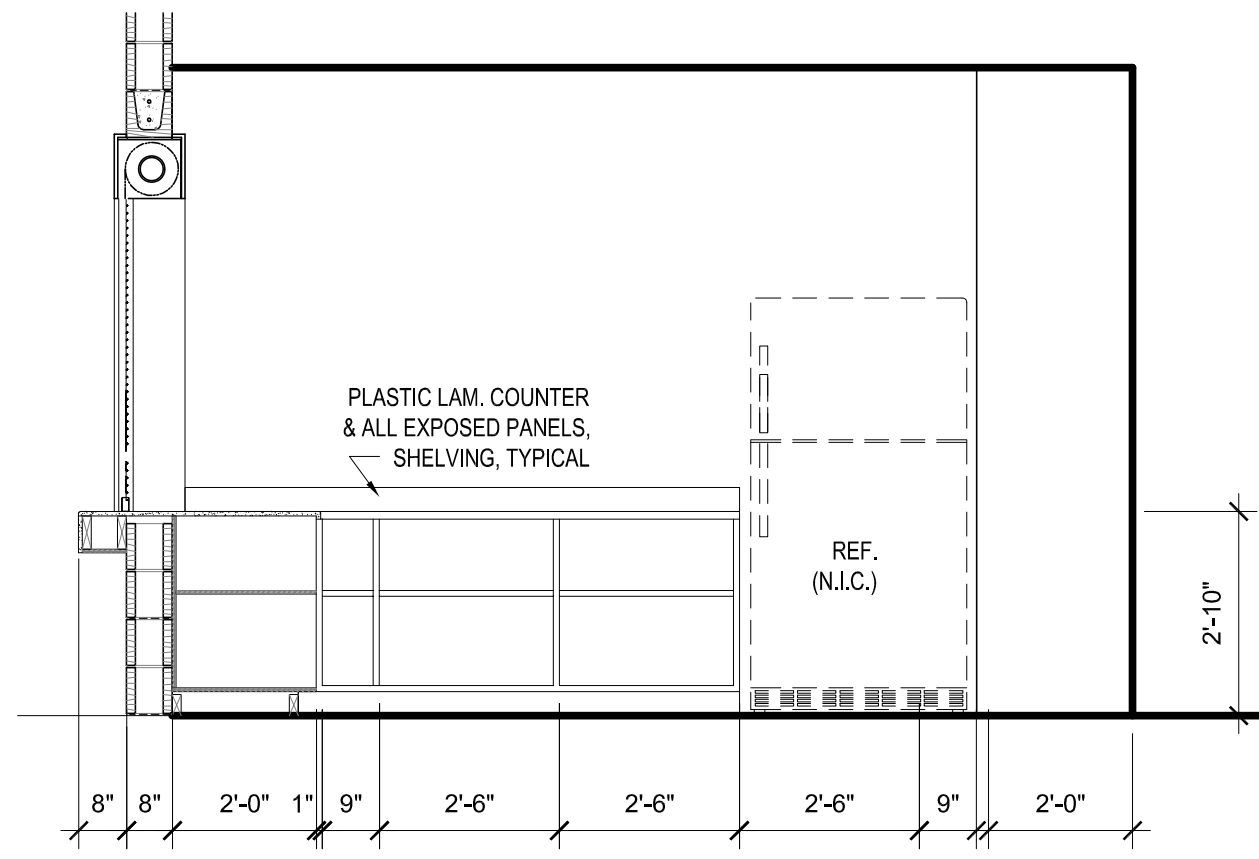
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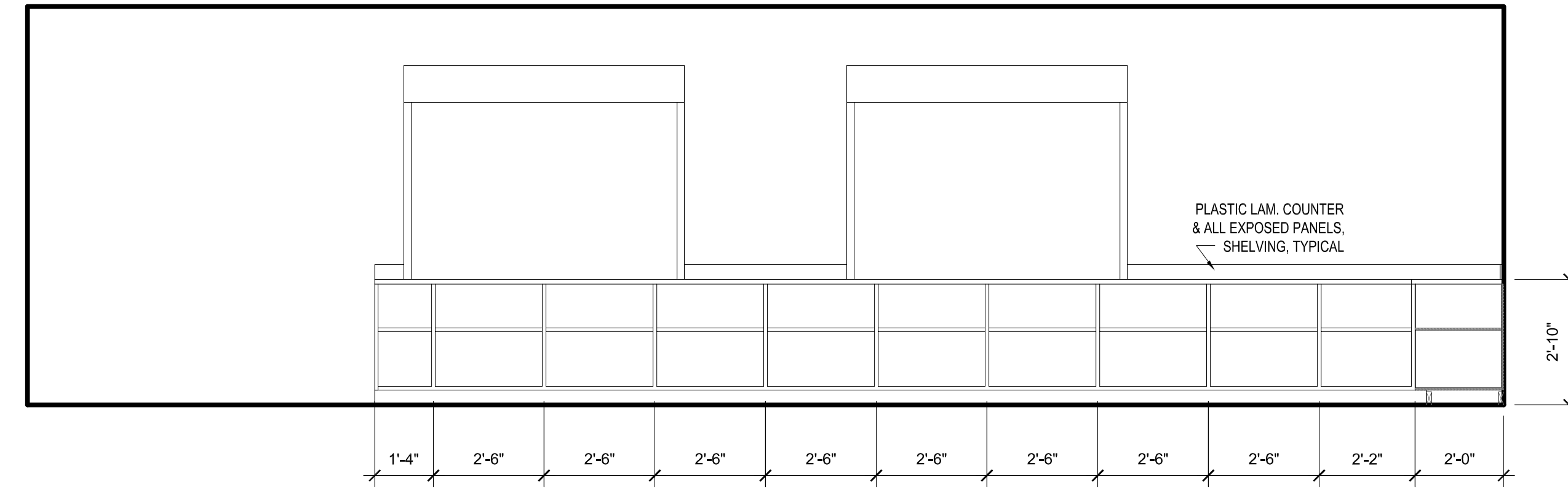




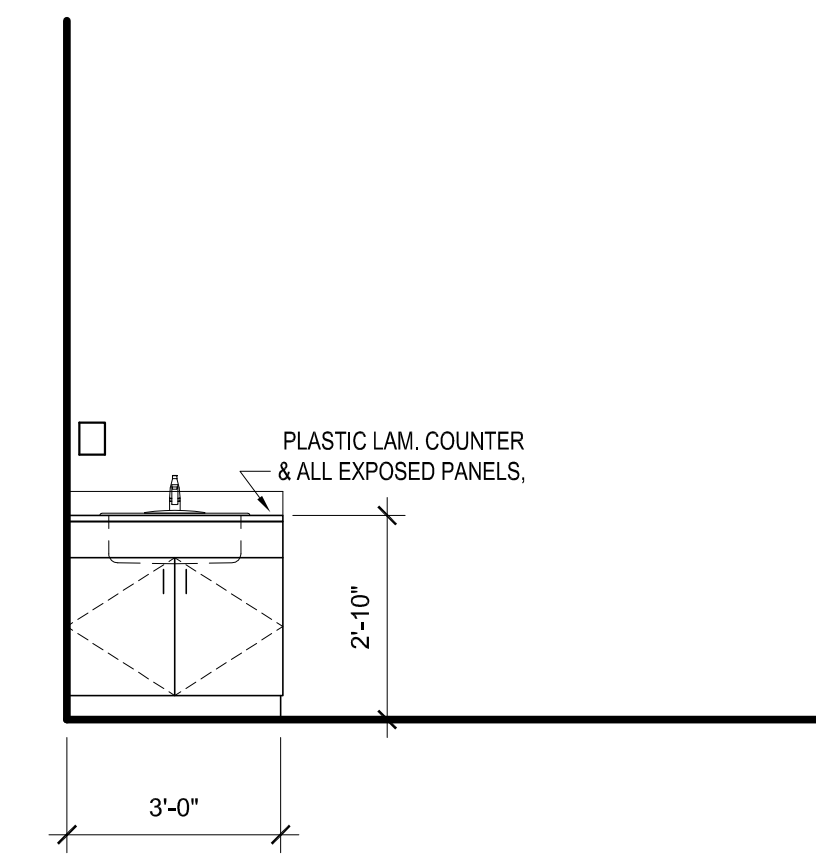
**1 CASEWORK ELEVATION**  
 SCALE: 3/8"=1'-0"  
 CONCESSION



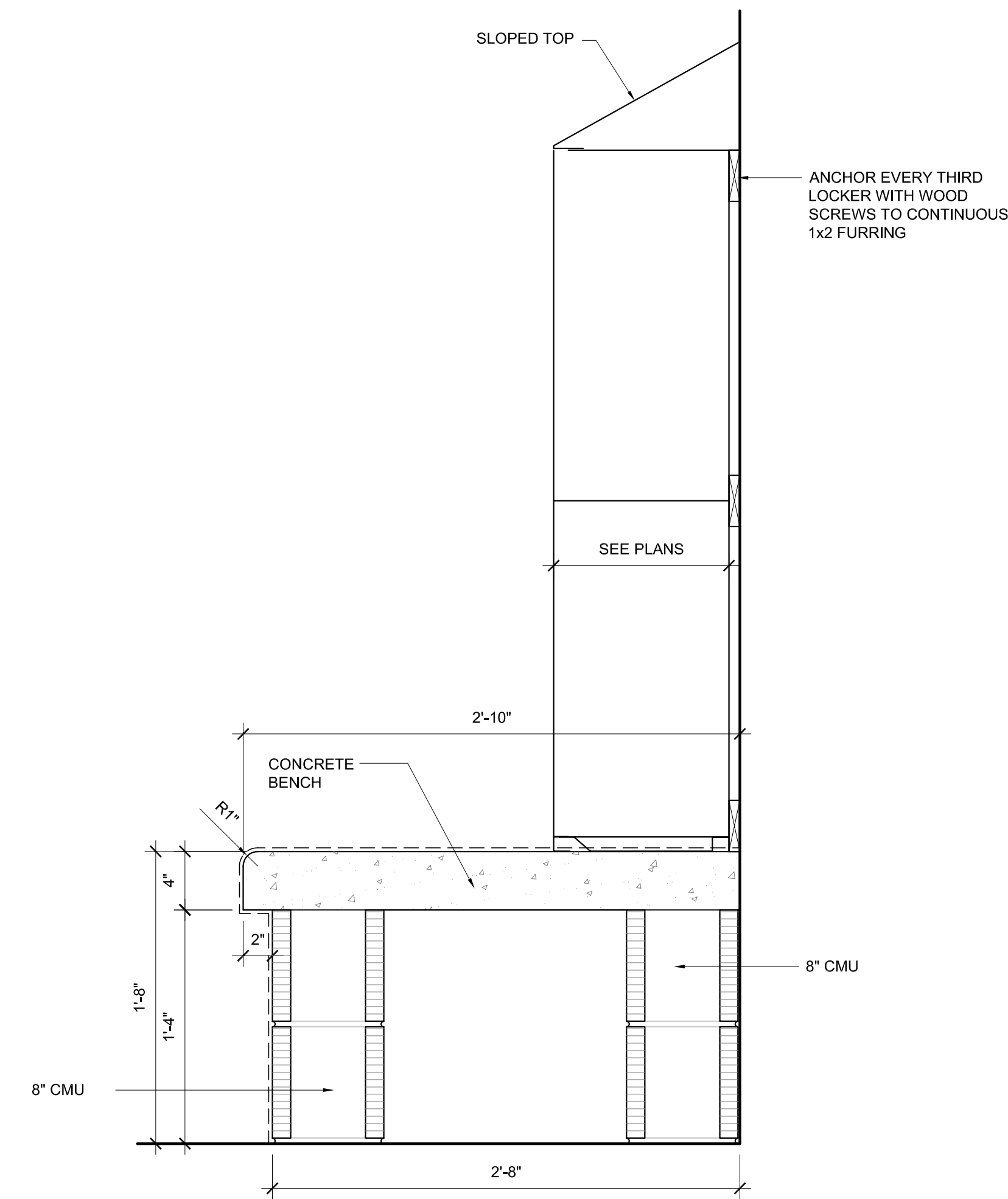
**2 CASEWORK ELEVATION**  
 SCALE: 3/8"=1'-0"  
 CONCESSION



**3 CASEWORK ELEVATION**  
 SCALE: 3/8"=1'-0"  
 CONCESSION



**4 CASEWORK ELEVATION**  
 SCALE: 3/8"=1'-0"  
 TRAINING



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

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SHEET TITLE : CASEWORK

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE : 9/18/24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **A10.1**





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GENERAL PROJECT NOTES:

- 1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY... 2. ANY EXISTING PROPERTY CORNERS (I.E. IRON PIPES, CAPPED PIPES, CAPPED MONUMENTS, ETC.)... 3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS... 4. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS... 5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES... 6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES... 7. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION... 8. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT... 9. ALL TEMPORARY STONE FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL... 10. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS... 11. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED... 12. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES... 13. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE BLOUNT COUNTY SCHOOL SYSTEM...

DEMOLITION NOTES:

- 1. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED... 2. ALL AREAS DISTURBED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS... 3. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS)... 4. ALL EXISTING WATER VALVES, UTILITY VALVE TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS... 5. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN... 6. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING... 7. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT... 8. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN 1/2" IN DIAMETER... 9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8' LIFTS...

GRADING NOTES:

- 1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED... 2. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE... 3. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED... 4. ALL EXISTING WATER VALVES, UTILITY VALVE TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS... 5. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN... 6. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING... 7. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT... 8. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN 1/2" IN DIAMETER... 9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8' LIFTS...

STORM DRAIN NOTES:

- 1. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL... 2. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP... 3. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB... 4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS... 5. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP... 6. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS... 7. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE... 8. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION... 9. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES... 10. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES... 11. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN... 12. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS...

SANITARY SEWER NOTES:

- 1. THE CONTRACTOR SHALL REFERENCE THE PLUMBING PLANS FOR ANY SEWER PLUMBING BENEATH THE PROPOSED BUILDING FOOTPRINT... 2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING... 3. SANITARY STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL... 4. SANITARY STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP... 5. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES... 6. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED... 7. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS... 8. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE... 9. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH SANITARY SEWER CONICAL SECTION... 10. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY... 11. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED PER THE LOCAL SEWER AUTHORITY'S REQUIREMENTS...

GENERAL UTILITY NOTES:

- 1. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION... 2. ALL STORM DRAIN AND SANITARY SEWER SYSTEM STRUCTURES AND PIPING SHALL REMAIN ACTIVE UNTIL... 3. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER...

PAVING, SIGNING AND STRIPPING NOTES:

- 1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT... 2. ALL COMBINATION CURB AND GUTTER SHALL BE ONE AND A HALF (1.5) FEET IN WIDTH UNLESS OTHERWISE SHOWN... 3. ALL TEMPORARY AND/OR PERMANENT STRIPPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN... 4. ALL PERMANENT SIGNS AND POSTS SHALL BE PER THE MUTCD... 5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION... 6. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED... 7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED... 8. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT... 9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY... 10. ALL TEMPORARY STRIPPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT... 11. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER...

EROSION CONTROL NOTES:

- 1. REGARDLESS IF AN NPDES PERMIT IS REQUIRED OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION AND SEDIMENT CONTROL... 2. THE DESIGN OF THE CBMP, IF REQUIRED, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S OCP... 3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR... 4. ALL TEMPORARY RIPRAP USED FOR EROSION CONTROL PURPOSES SHALL BE INCLUDED IN THE PRICE OF EROSION CONTROL... 5. STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE PERMANENT RIPRAP REINFORCEMENT IN THE WALLS... 6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES... 7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES... 8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES... 9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION... 10. THE CONTRACTOR SHALL INSTALL WATTLE, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT... 11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 12"... 12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES... 13. WHEN INSTALLING SILT FENCE OR OTHER BMPs, THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED... 14. ADEM CLOSELY MONITORS DEVELOPMENTS FOR EROSION & SEDIMENT CONTROL VIOLATIONS... 15. ALL INLETS/STRUCTURES SHALL BE COVERED BY DOME INLET PROTECTORS DURING CONSTRUCTION... 16. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED OR DISTURBED AREAS TO ORIGINAL... 17. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT ADDITIONAL ITEMS OR REVISE IN-FIELD PLACEMENT... 18. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL SANITARY OR STORM SEWER MAINS AND MANHOLES... 19. CONTRACTOR SHALL BE OBSERVANT OF FORECASTED RAIN EVENTS AND PROMPTLY REPAIR, MAINTAIN, INSTALL NECESSARY... 20. MODULAR RETAINING WALLS ARE TO BE DESIGNED BY OTHERS... 21. ALL CONCRETE WASHOUT WATER SHALL BE COLLECTED IN A LEAK PROOF CONTAINER...

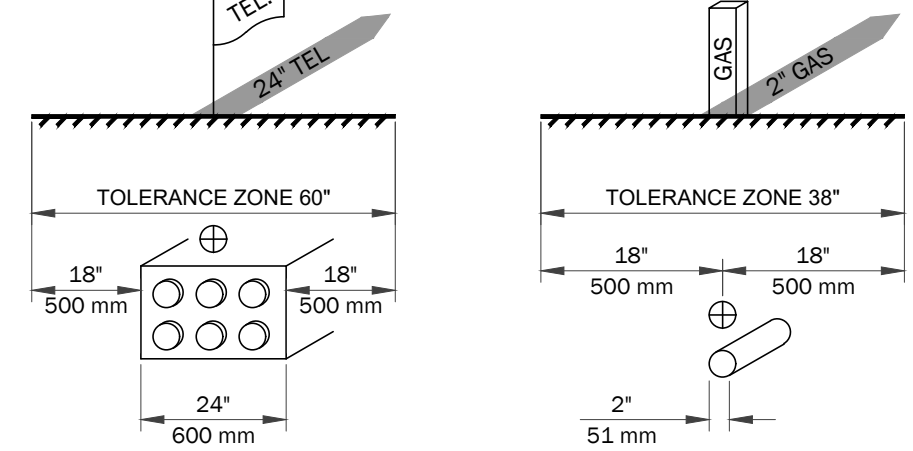
MODULAR RETAINING WALL NOTES:

- 1. MODULAR RETAINING WALLS ARE TO BE DESIGNED BY OTHERS... 2. MODULAR BLOCK MATERIALS AND COLOR ARE TO BE APPROVED BY OWNER... 3. THE GRADE AT TOP OF WALL IS DENOTED BY G.T.W., GRADE AT BOTTOM OF WALL IS DENOTED BY G.B.W.

EXISTING UTILITY NOTES

APWA UNIFORM COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

- WHITE: Proposed excavation
PINK: Temporary survey markings
RED: Gas, Steam, Petroleum or other Flammable Gases, Conduct and Lighting Cables
YELLOW: Oil, Steam, Petroleum or Gasoline Materials
BLUE: Recharge Water
PURPLE: Irrigation and Sprinkler
GREEN: Sewers and Drain Lines



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

SHEET TITLE : GENERAL NOTES

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

REVISED DATE:

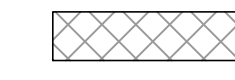


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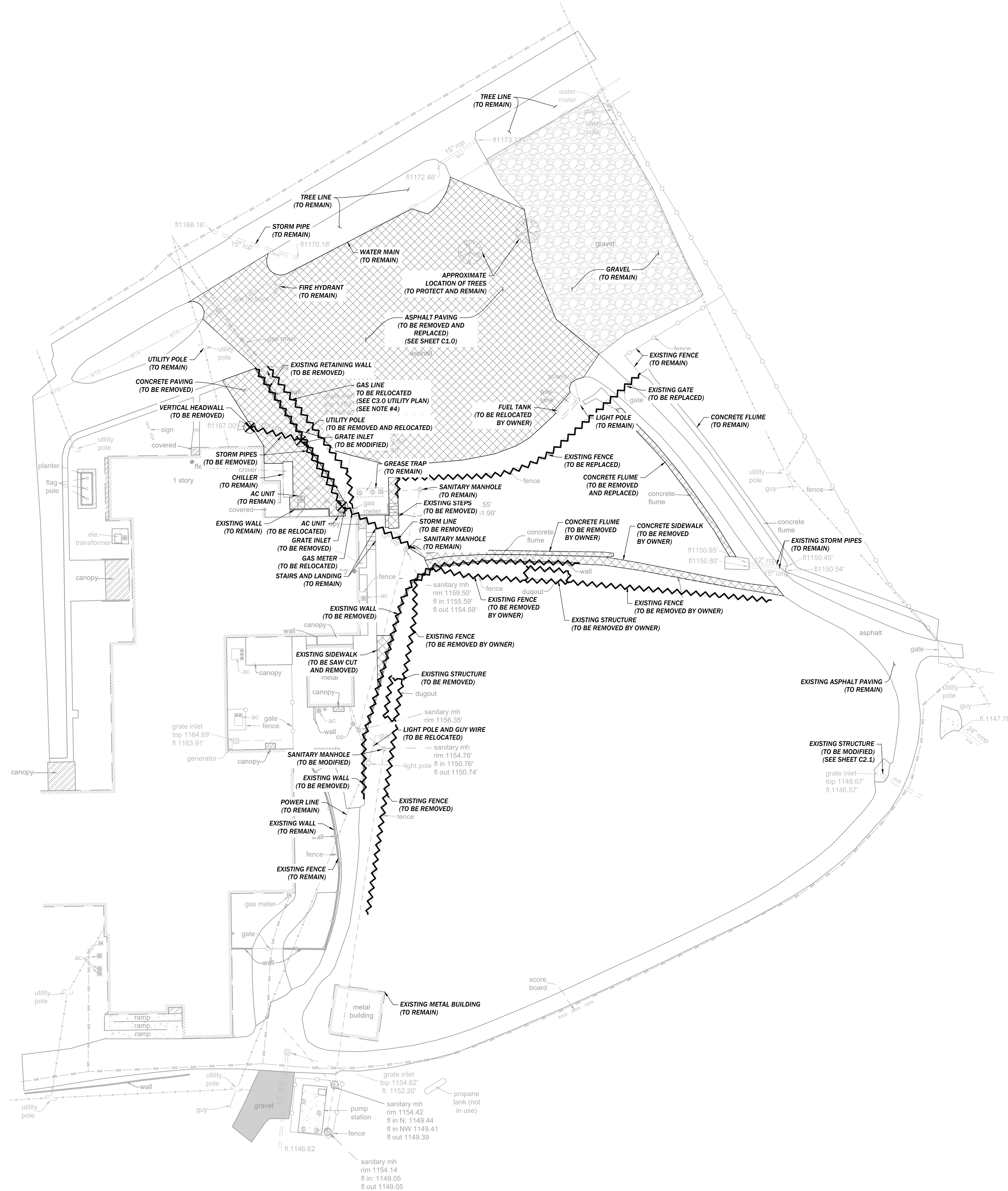
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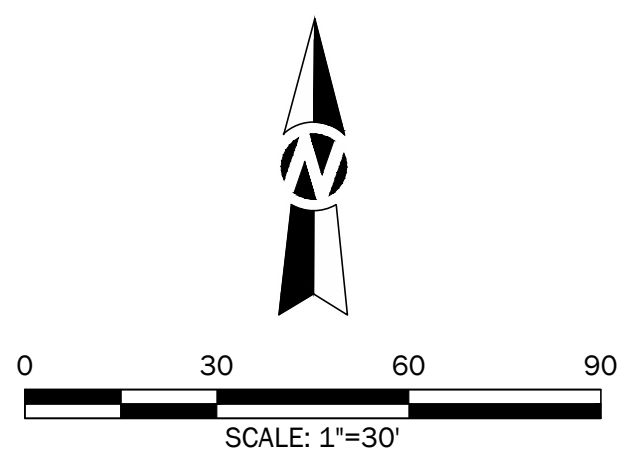


### DEMOLITION LEGEND

-  ASPHALT, CONCRETE, OR GRAVEL TO BE REMOVED
-  ITEM TO BE REMOVED
-  ITEM TO BE REMOVED



- NOTE:**
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
  2. EXISTING UTILITIES SHOWN FOR GENERAL REFERENCE. CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS AND RELOCATIONS WITH APPLICABLE UTILITY PROVIDERS AND CONDUCT REMOVAL/RELOCATION PER LOCAL UTILITY PROVIDER'S REQUIREMENTS.
  3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE PROXIMITY OF EXISTING GAS, SEWER, POWER UTILITIES, ETC.
  4. RELOCATION OF GAS LINE MUST OCCUR ENTIRELY WITHIN A TIME PERIOD WHEN THE SCHOOL IS NOT IN USE. COORDINATE WITH OWNER.
  5. CONTRACTOR SHALL PREVENT TRACKING OF DIRT AND SEDIMENT ON PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES ROADWAY, IT MUST BE CLEANED AT END OF EACH WORK DAY.



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SHEET TITLE : DEMOLITION PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

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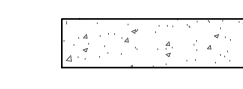
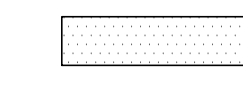
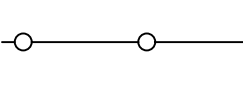
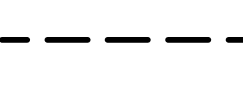



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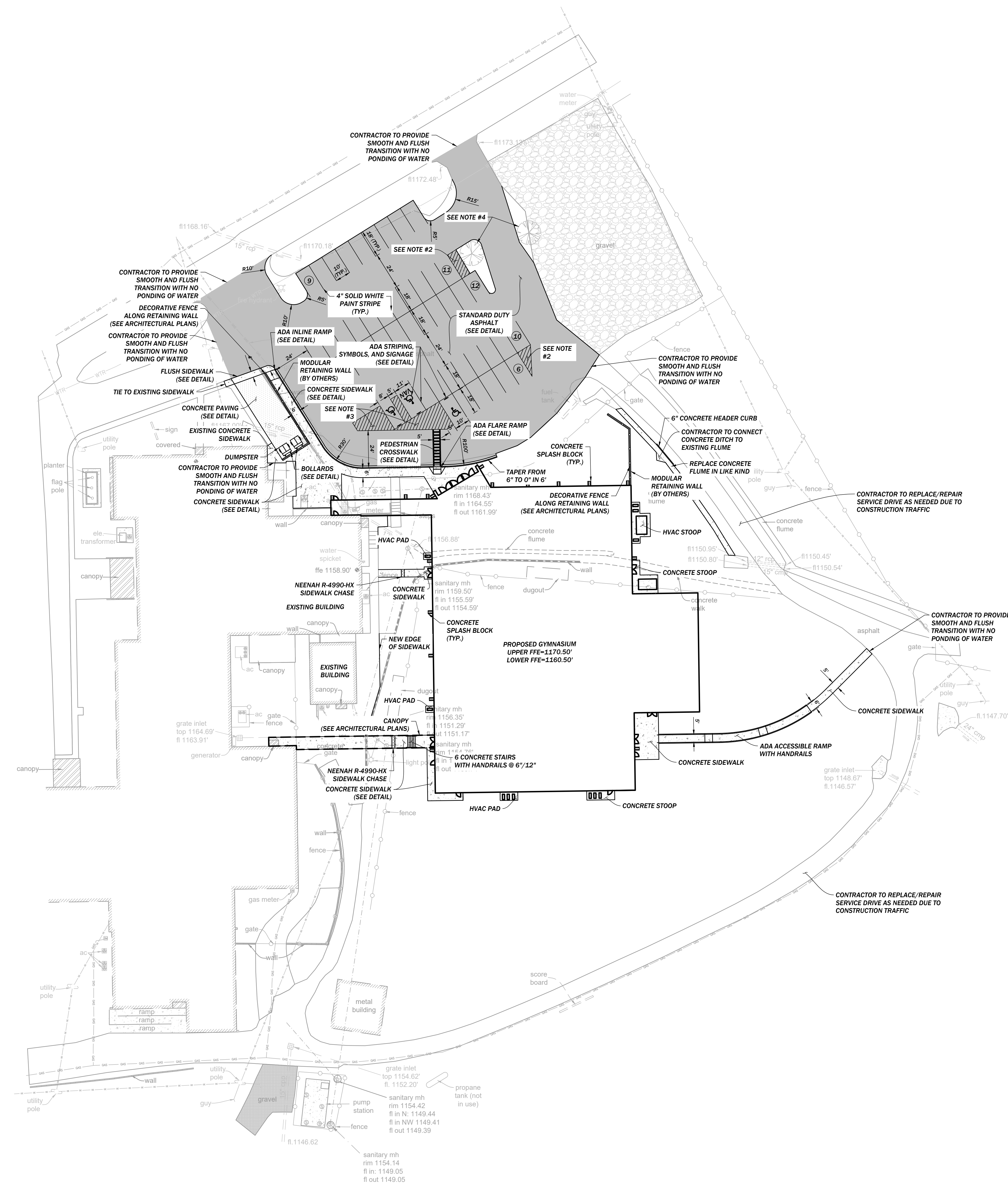
REVISED DATE :

SHEET NO. : C0.2



### SITE LAYOUT LEGEND

-  STANDARD DUTY ASPHALT (SEE DETAIL)
-  CONCRETE SIDEWALK (SEE DETAIL)
-  CONCRETE PAVING (SEE DETAIL)
-  CHAIN LINK FENCE (SEE DETAIL)
-  BUILDING CANOPY (SEE ARCHITECTURAL PLANS)
-  18" CURB AND GUTTER (SEE DETAIL)
-  PARKING COUNT
-  REGULATORY SIGN (SEE DETAIL)



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SHEET TITLE : SITE LAYOUT PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

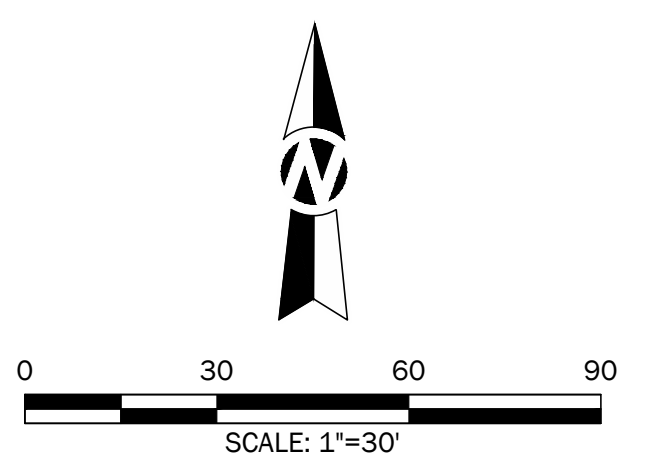
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REVISED DATE :

SHEET NO. : C1.0

- NOTE:**
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
  2. 4" SOLID WHITE PAINT STRIPE @ 2" O.C. AND 45° TO TRAFFIC FLOW WITH 4" SOLID WHITE BORDER
  3. 4" SOLID BLUE PAINT STRIPE @ 2" O.C. AND 45° TO TRAFFIC FLOW WITH 4" SOLID BLUE BORDER
  4. EXISTING TREES TO BE PROTECTED AND REMAIN. USE CAUTION WHEN PAVING AROUND ROOT SYSTEM.

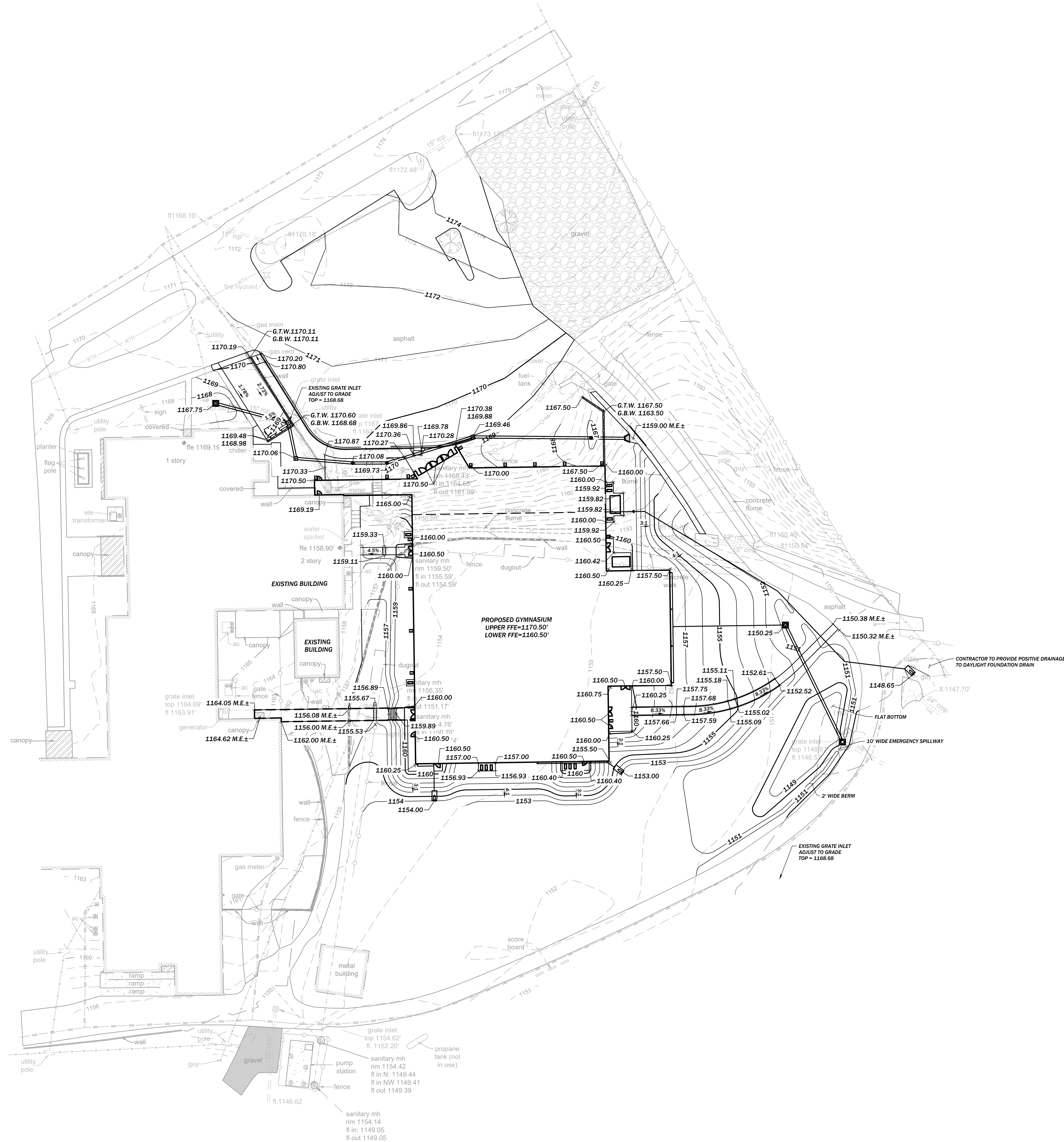




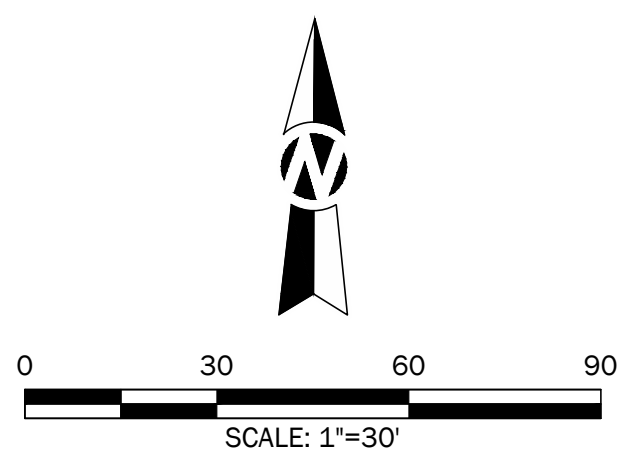
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NOTE:  
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.  
2. SEE SHEET C2.1 FOR DRAINAGE INFORMATION.



SHEET TITLE : GRADING PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

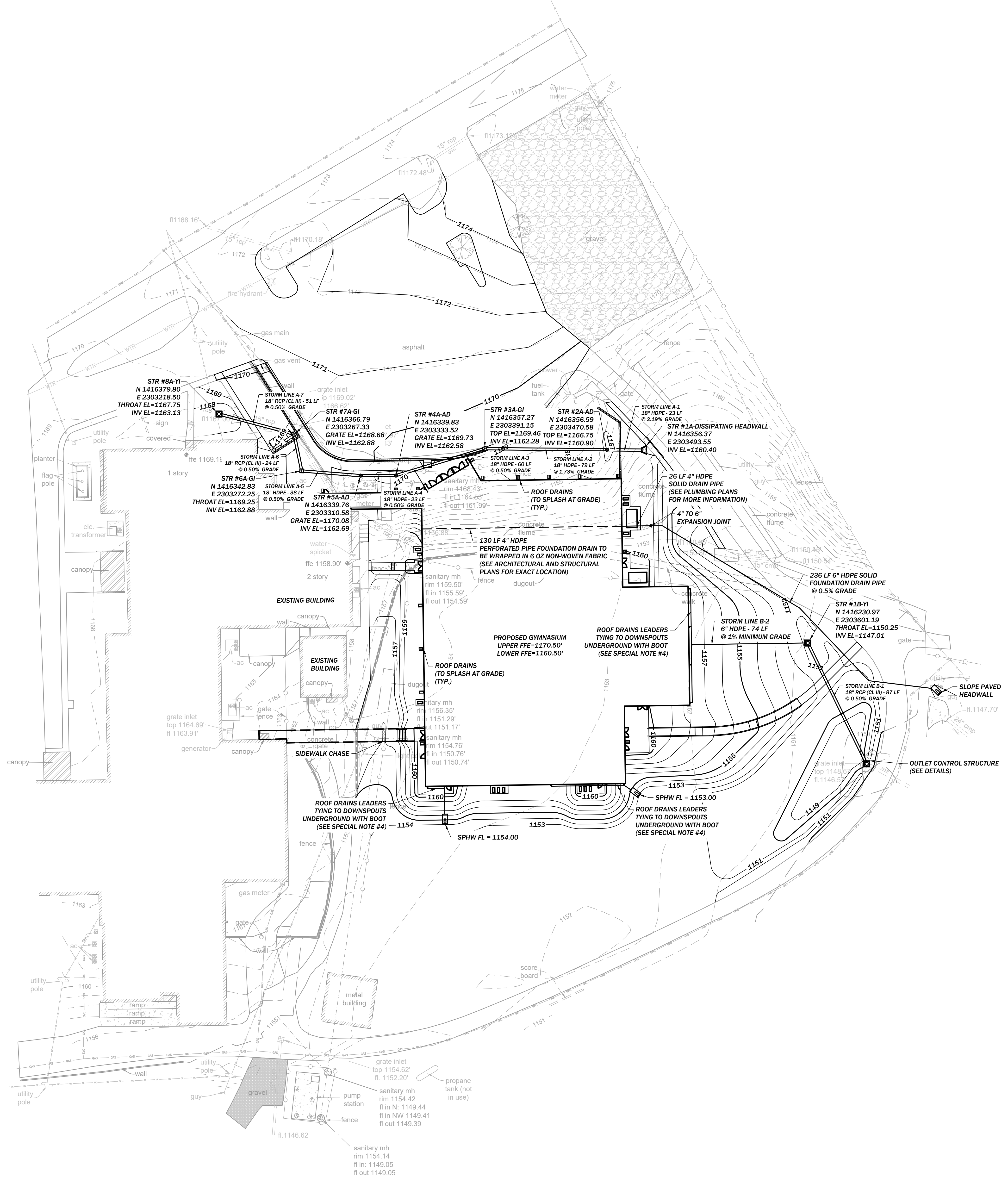
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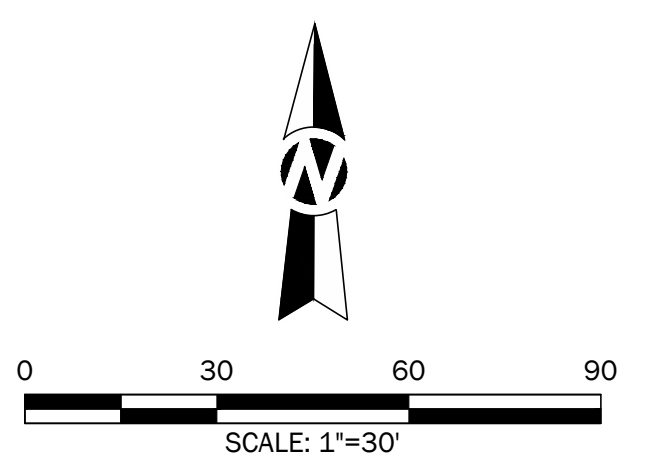
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- NOTE:**
- SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
  - SEE SHEET C2.0 FOR GRADING INFORMATION.
  - ROOF DRAINS ARE TO SPLASH AT GRADE ONTO CONCRETE SPLASH BLOCKS.
  - ALL ROOF DRAIN LEADERS AND COLLECTOR LINES TYING TO DOWNSPOUTS ARE TO BE 6" HDPE AT 1% MINIMUM GRADE AND HAVE A MINIMUM OF 2 FEET OF COVER.
  - ROOF DRAIN LEADERS AND COLLECTOR LINES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR TO COORDINATE EXACT LOCATIONS IN FIELD WITH HVAC UNITS AND UTILITIES.



SHEET TITLE : DRAINAGE PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

REVISED DATE :






REVISED DATE :

REVISED DATE :

SHEET NO. : C2.1



### UTILITY LEGEND

-  SANITARY SEWER LINE
-  POWER POLE (FOR REFERENCE ONLY)
-  POWER LINE (FOR REFERENCE ONLY)
-  THRUST BLOCK (SEE DETAIL)
-  FIRE HYDRANT (SEE DETAIL)



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SHEET TITLE : UTILITY PLAN

MCKEE JOB # : 24-169

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DATE : 9/18/2024

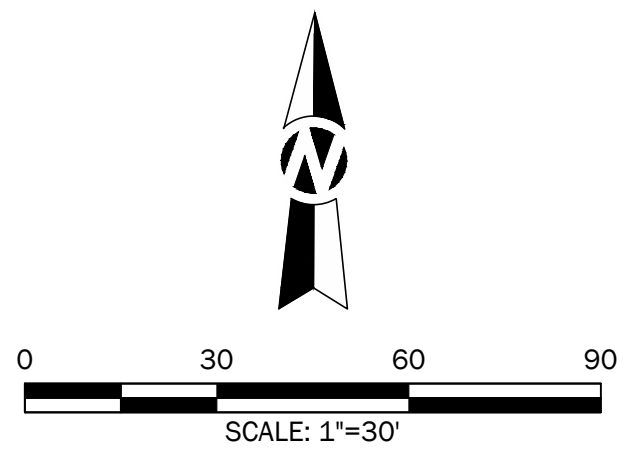
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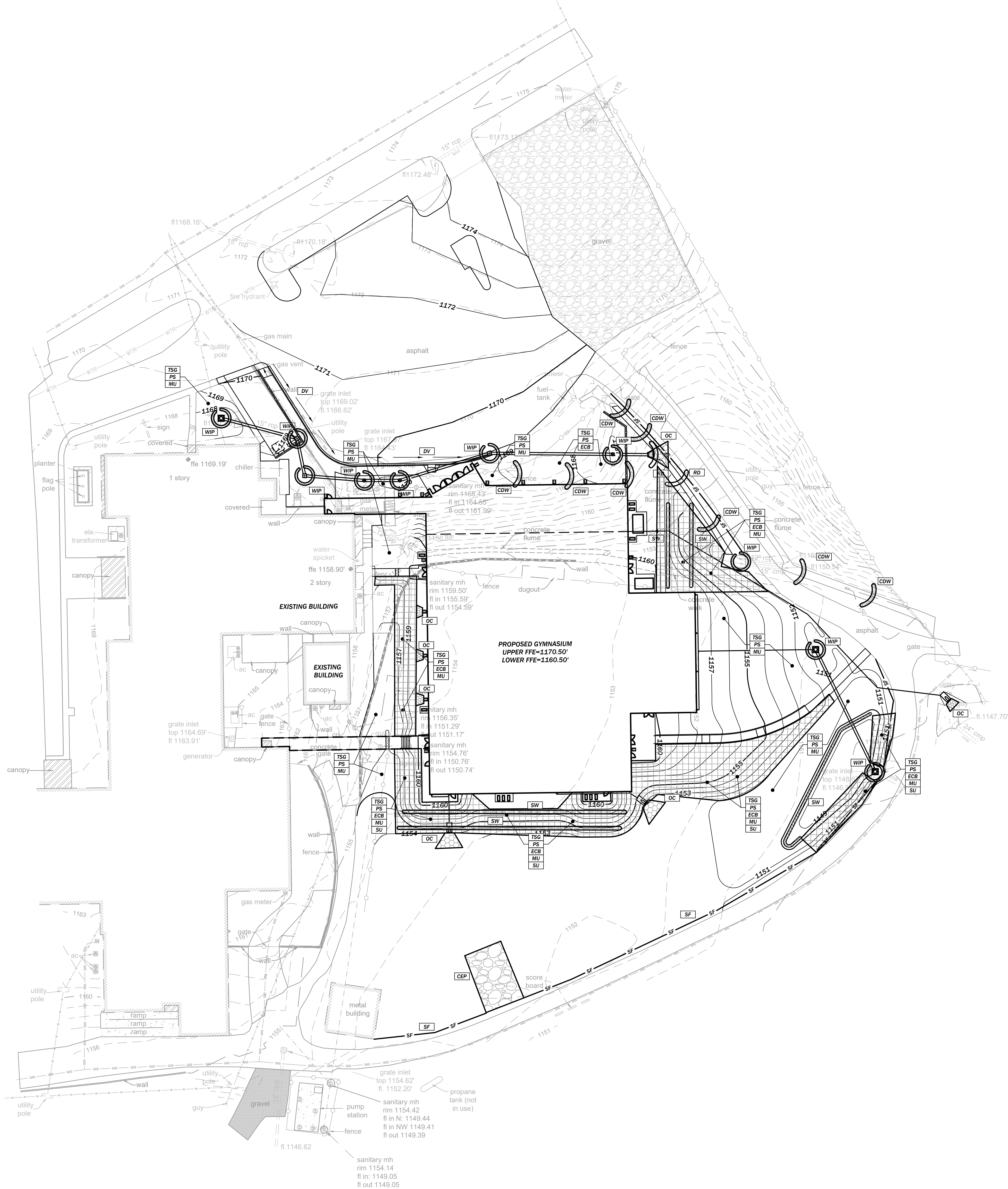
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SHEET NO. : C3.0

- NOTE:
1. SEE SHEET CO.1 FOR ALL APPLICABLE NOTES.
  2. ALL EXISTING UTILITIES SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN VICINITY OF EXISTING UTILITIES.
  3. ALL PROPOSED UTILITIES ARE FOR REFERENCE ONLY. REFER TO PLUMBING PLANS FOR EXACT LOCATION AND CONTINUATION.







### EROSION CONTROL LEGEND

- SF SILT FENCE
- CEP CONSTRUCTION EXIT PAD
- DV DIVERSION CHANNEL
- WIP WATTLE INLET PROTECTION
- SW SLOPE WATTLE
- TSG TOPSOILING
- PS PERMANENT SEEDING
- ECB EROSION CONTROL BLANKET
- OC OUTLET CONTROL PROTECTION
- RD ROCK FILTER DAM
- WCD WATTLE CHECK DAM

## NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE  
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SHEET TITLE : EROSION CONTROL PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

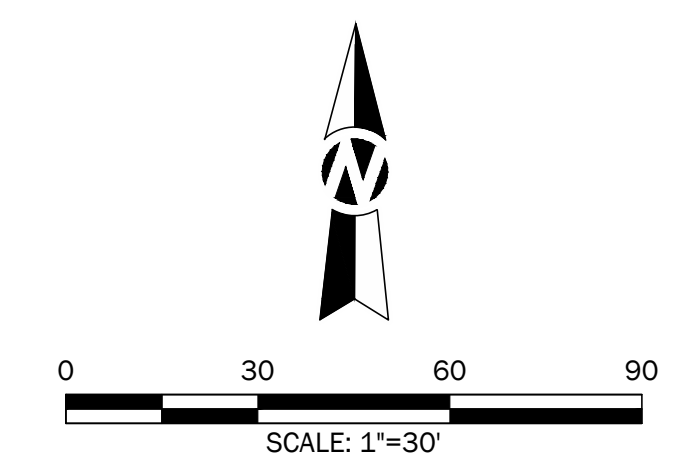
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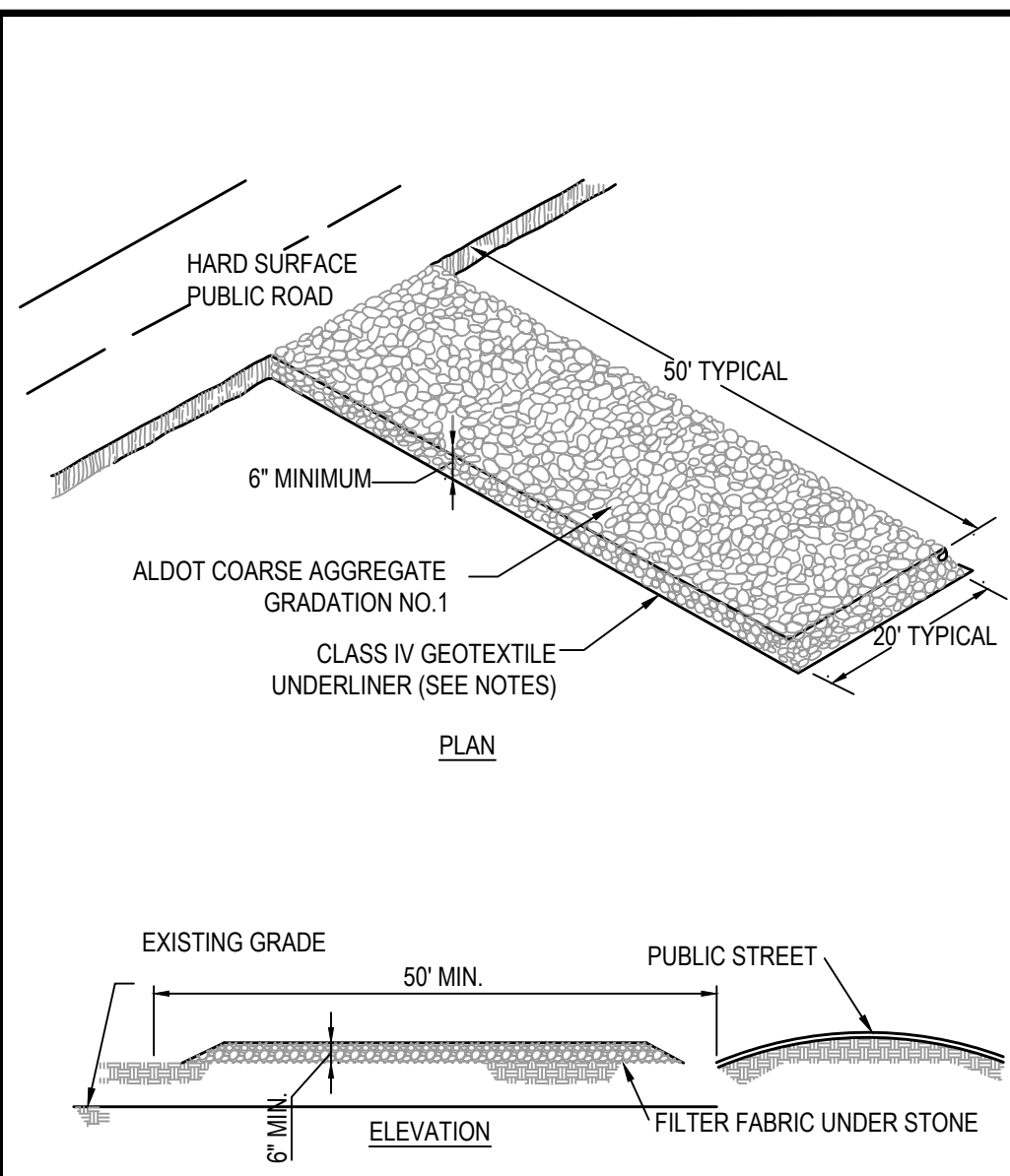
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SHEET NO. : C4.0

NOTE:  
1. SEE SHEET CO.1 FOR ALL APPLICABLE NOTES.

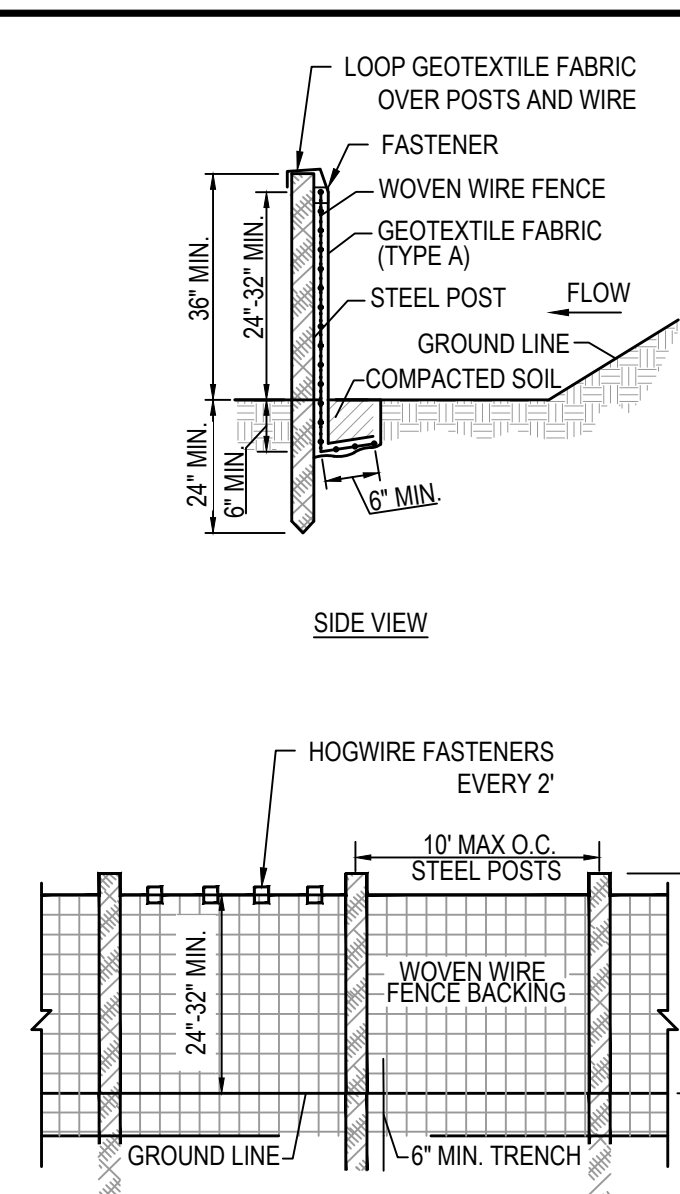






- SPECIAL NOTES:**
1. A STABILIZED PAD OF CRUSHED STONE SPREAD OVER FILTER FABRIC SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET. THE STONE SHALL BE ALDOT GRADATION NO. 1 STONE. FILTER FABRIC SHALL BE NONWOVEN GEOTEXTILE CLASS IV OR EQUAL.
  2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY BY STREET CLEANING (NOT FLUSHING). WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
  4. IF THE PAD SLOPE TOWARDS THE ROAD EXCEEDS 2%, A DIVERSION RIDGE 6" - 8" HIGH WITH 3:1 SIDE SLOPES MUST BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15' AWAY FROM THE ROAD AND DRAIN INTO A SEDIMENT TRAP OR BASIN.

**CEP CONSTRUCTION EXIT PAD**  
N.T.S.

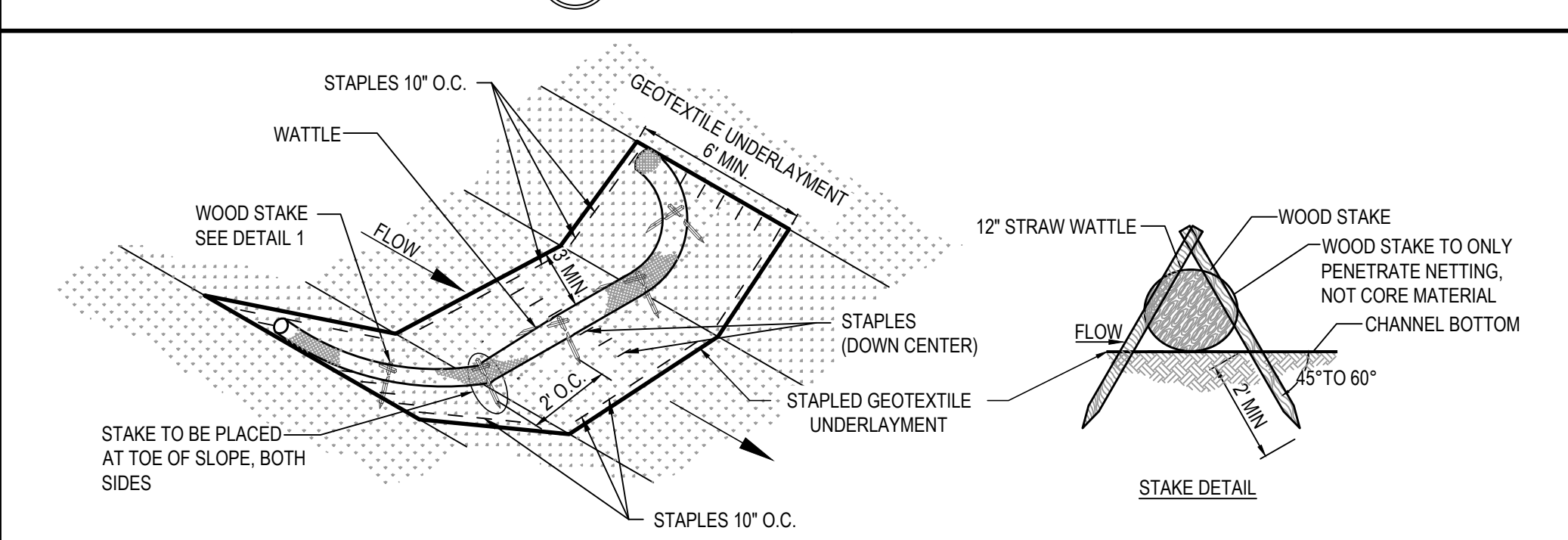
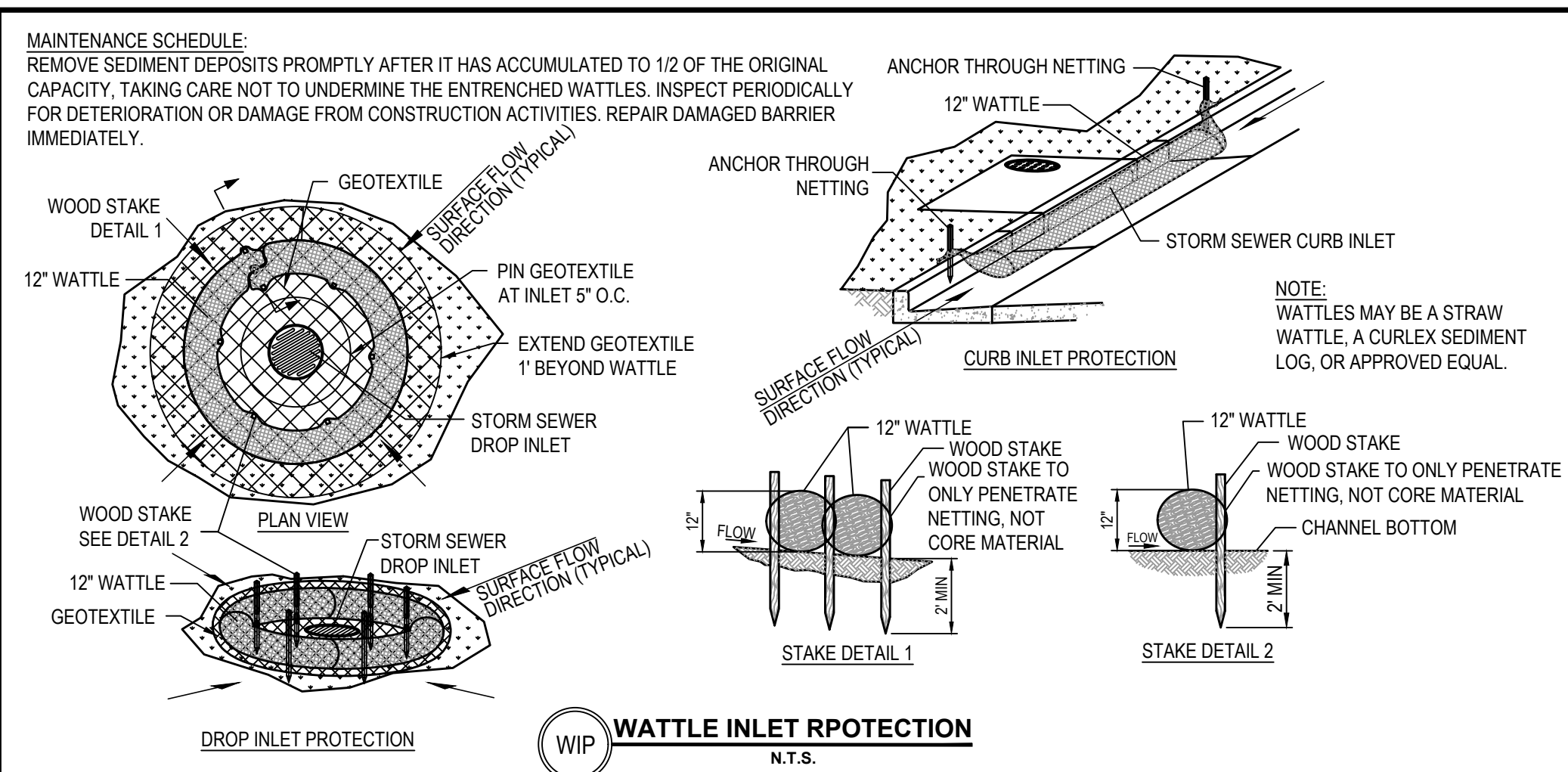


- SPECIAL NOTES:**
1. SILT FENCE FABRIC SHALL BE PER TABLE SB-1 FROM THE LATEST ALABAMA EROSION CONTROL HANDBOOK
  2. USE D.O.T. APPROVED WOVEN WIRE FENCE.
  3. USE 5' MIN. STEEL POSTS (1.3 LB/FT MIN.).
- NOTES:**
1. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OF WIRE TIES.
  2. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.

**MAINTENANCE SCHEDULE:**  
REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. SHOULD THE FABRIC OR SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

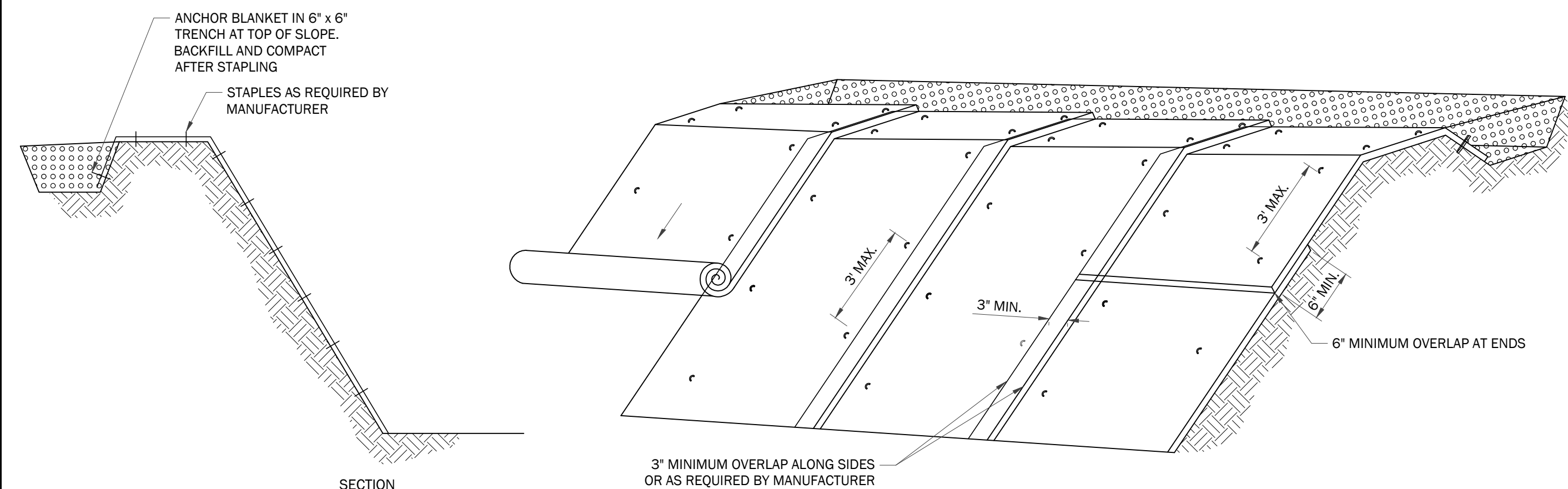
**SB SILT FENCE - TYPE A**  
N.T.S.

ADEM



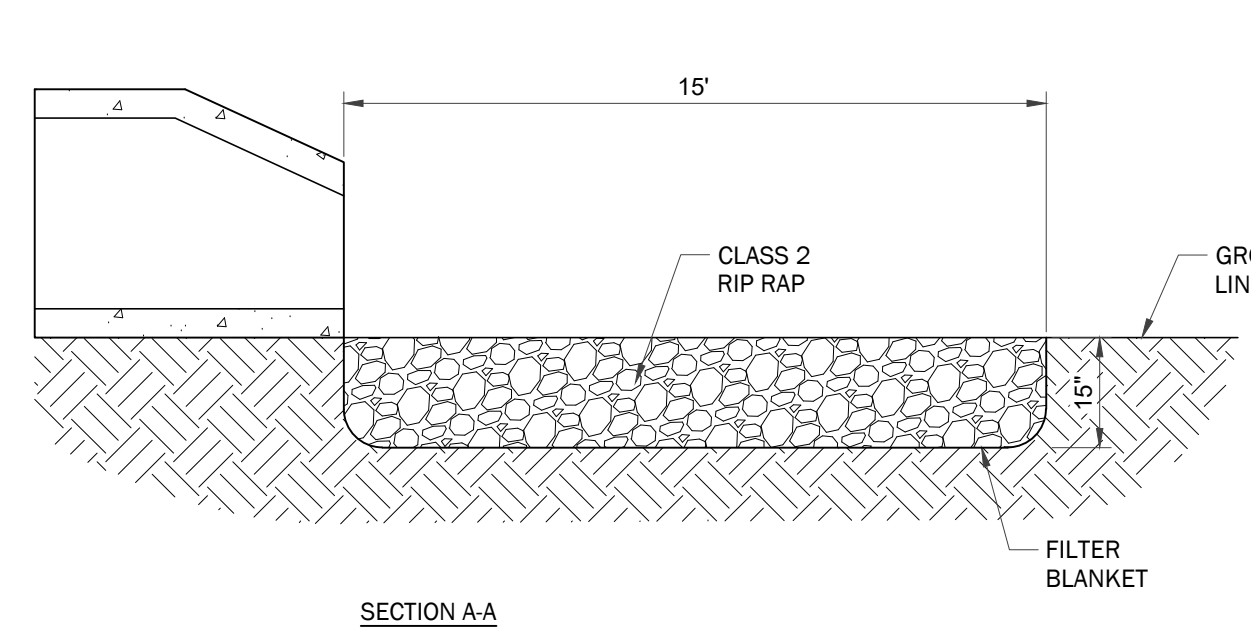
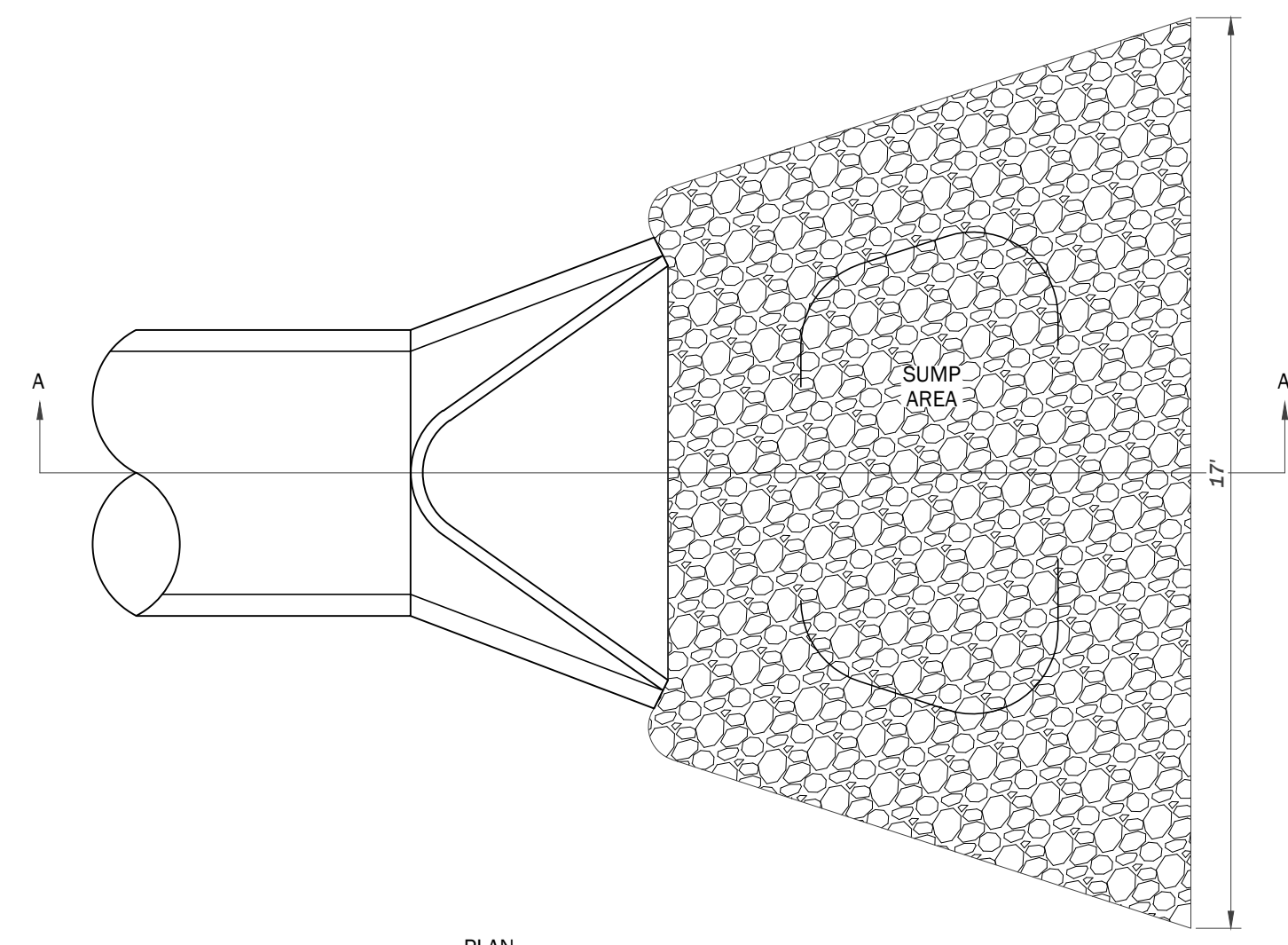
**WATTLE CHECK DAMS TO BE INSTALLED WITHOUT TRENCHING AND ON TOP OF STAPLED GEOTEXTILE UNDERLAYMENT THAT EXTENDS A MINIMUM 3 FT. UP AND DOWNSTREAM FROM THE WATTLE. WATTLES MUST BE PROPERLY STAPLED WITH SOD STAPLES ON 10-INCH CENTERS ON EACH SIDE OF THE WATTLE TO PREVENT FLOTATION AND STAKED OVER THE TOP USING NON-DESTRUCTIVE TEE-PEE TYPE STAKING.**

**CdW WATTLE CHECK DAM**  
N.T.S.

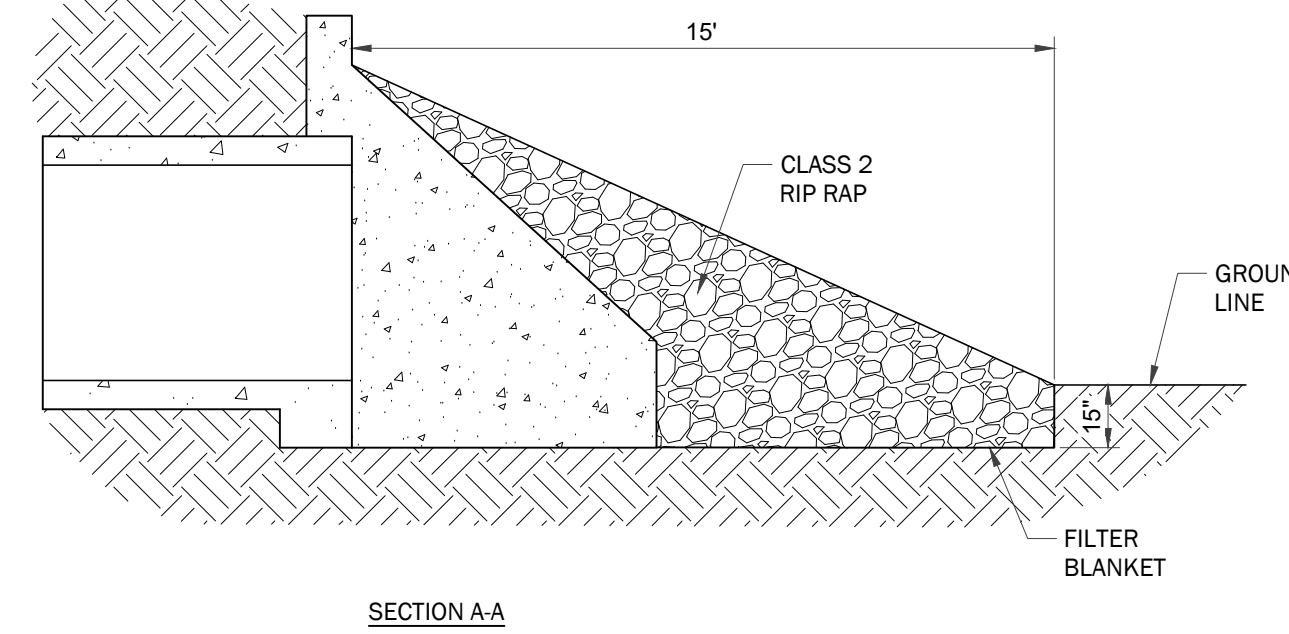
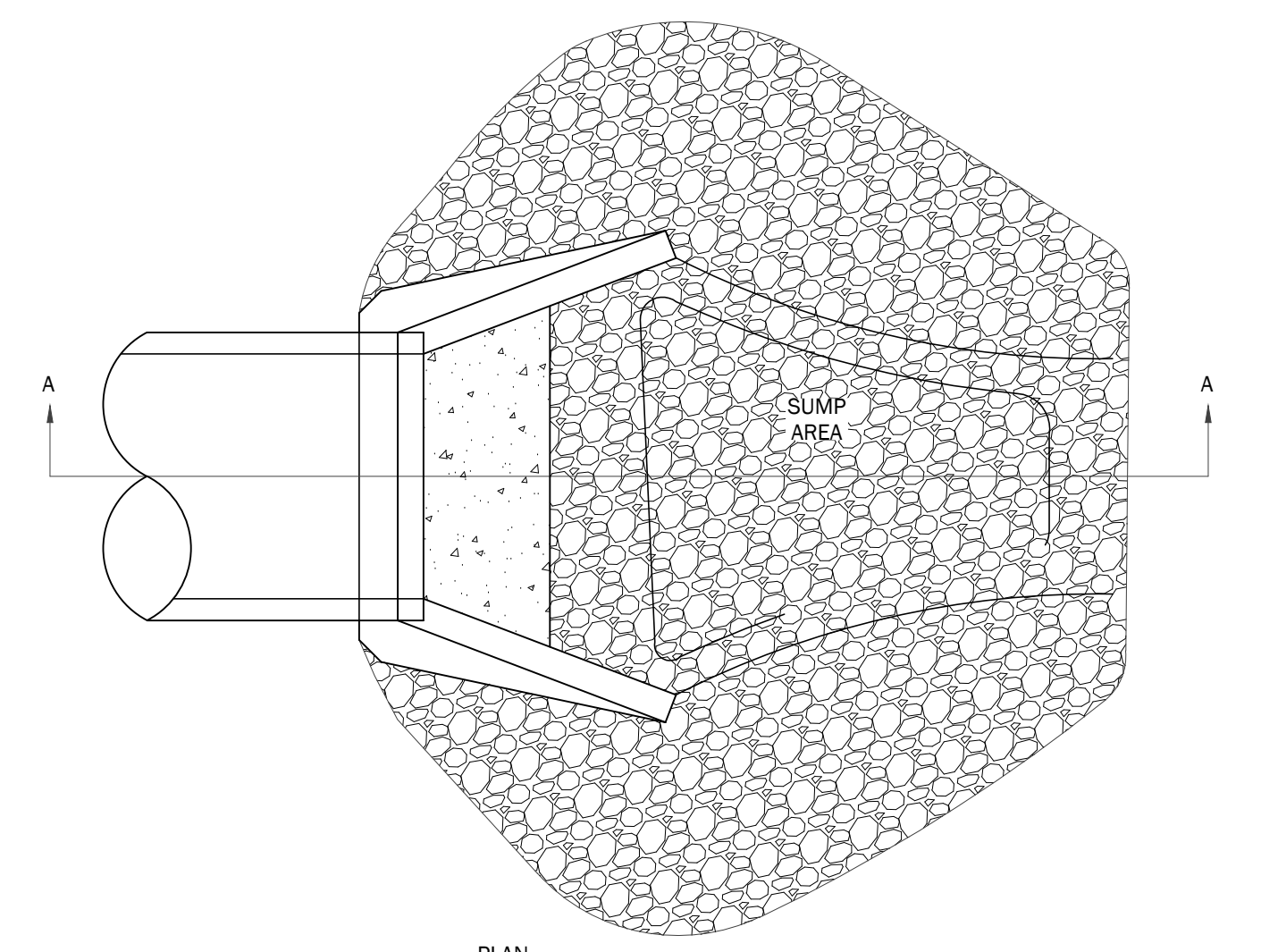


- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS AND SOIL CLODS TO MAINTAIN GOOD SOIL CONTACT.
  2. APPLY SEED, FERTILIZER, AND/OR LIME PRIOR TO THE INSTALLATION OF THE BLANKET.
  3. STRIPS SHALL BE ROLLED OUT FLAT, PARALLEL TO DIRECTION OF FLOW WITHOUT BEING STRETCHED.
  4. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE WIDTH OF THE SLOPE, THE SIDES SHALL OVERLAP A MINIMUM OF 3".
  5. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE LENGTH OF THE SLOPE, THE ENDS SHALL OVERLAP A MINIMUM OF 6".
  6. THE UPSLOPE END SHALL BE ANCHORED IN A 6" VERTICAL TRENCH AND BACKFILLED (NOTE: WHEN, IN THE OPINION OF THE OCP, CONDITIONS WARRANT, OTHER EDGES EXPOSED TO EXCESSIVE FLOW SHALL BE INSTALLED AS PREVIOUSLY SPECIFIED).
  7. STAPLES SHALL BE U-SHAPED WIRE WITH A MINIMUM 1.1 GAUGE THICKNESS, AND THE LEGS SHALL BE AT LEAST 6" LONG WITH A 1" CROWN.
  8. EACH STRIP SHALL BE STAPLED IN 3 ROWS, AT EDGES AND CENTER, WITH STAPLES SPACED NOT MORE THAN A 3 FOOT GRID.

**TEMPORARY EROSION CONTROL BLANKET**  
NOT TO SCALE



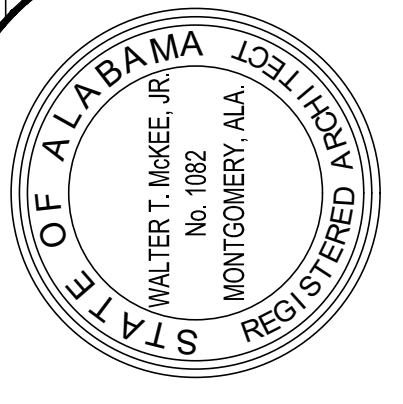
**OUTLET PROTECTION DURING CONSTRUCTION**  
NOT TO SCALE



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

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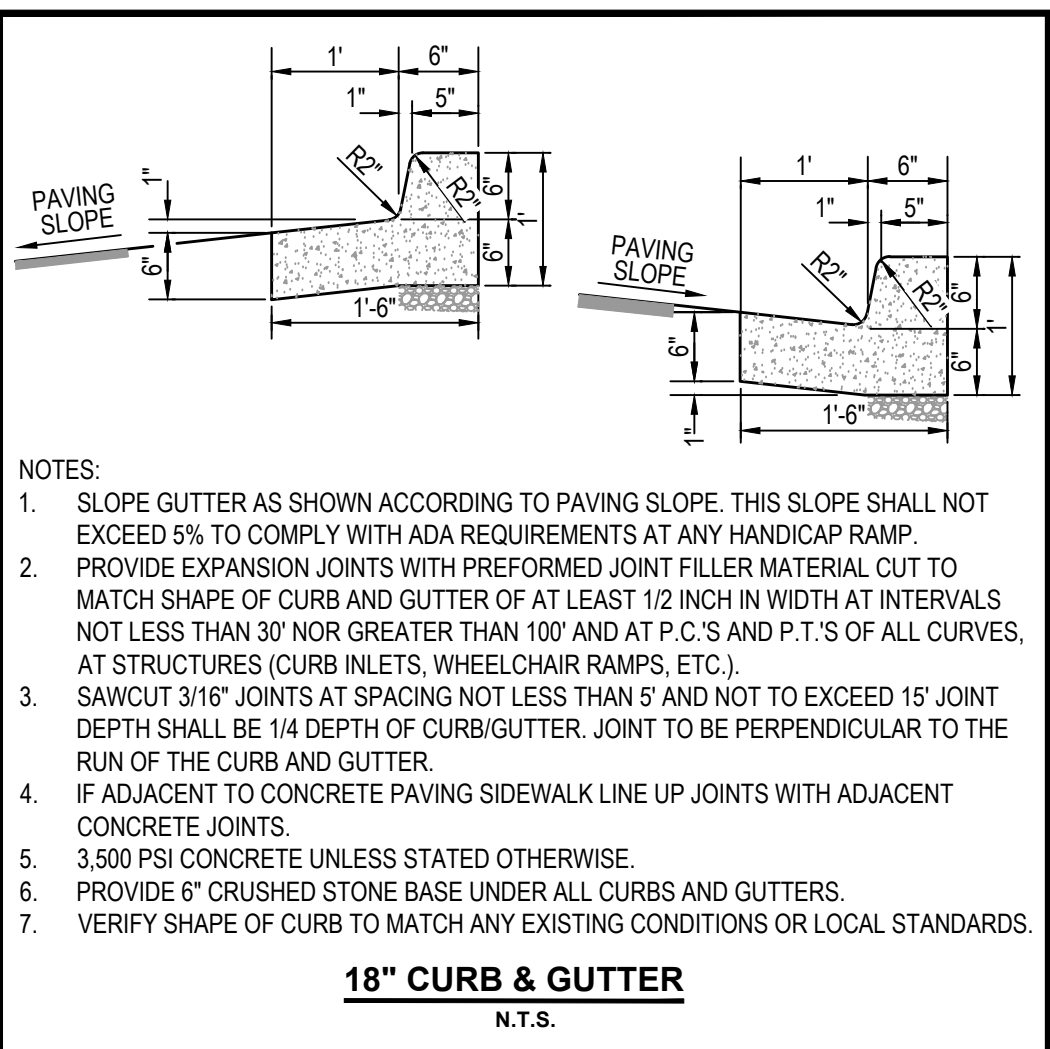
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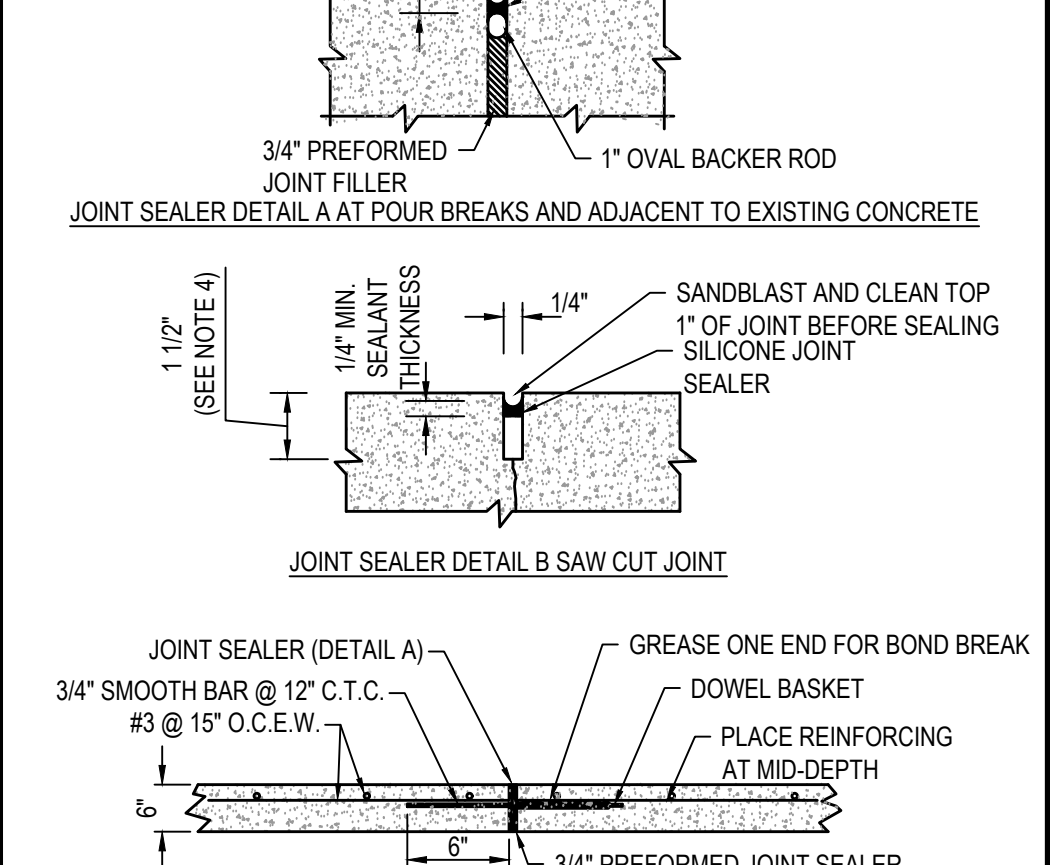
SHEET TITLE : EROSION CONTROL DETAILS  
MCKEE JOB # : 24-169  
DRAWN BY : CWV  
DATE : 9/18/2024  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : C4.1

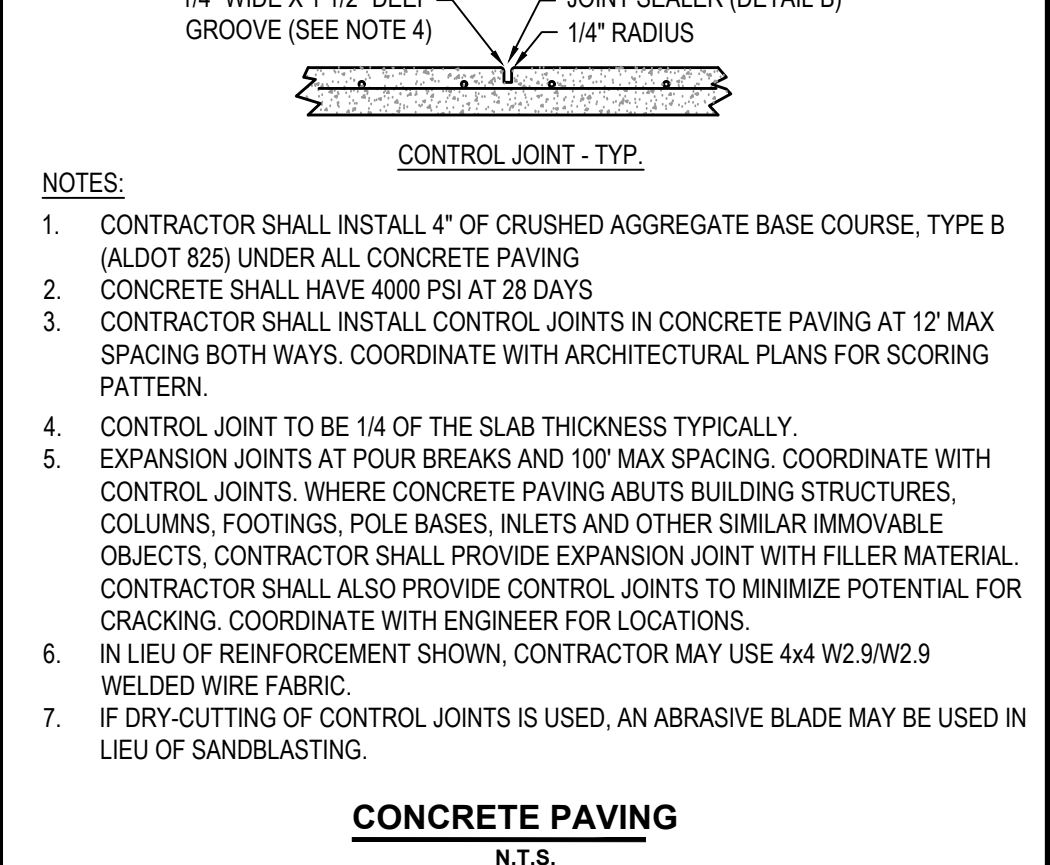




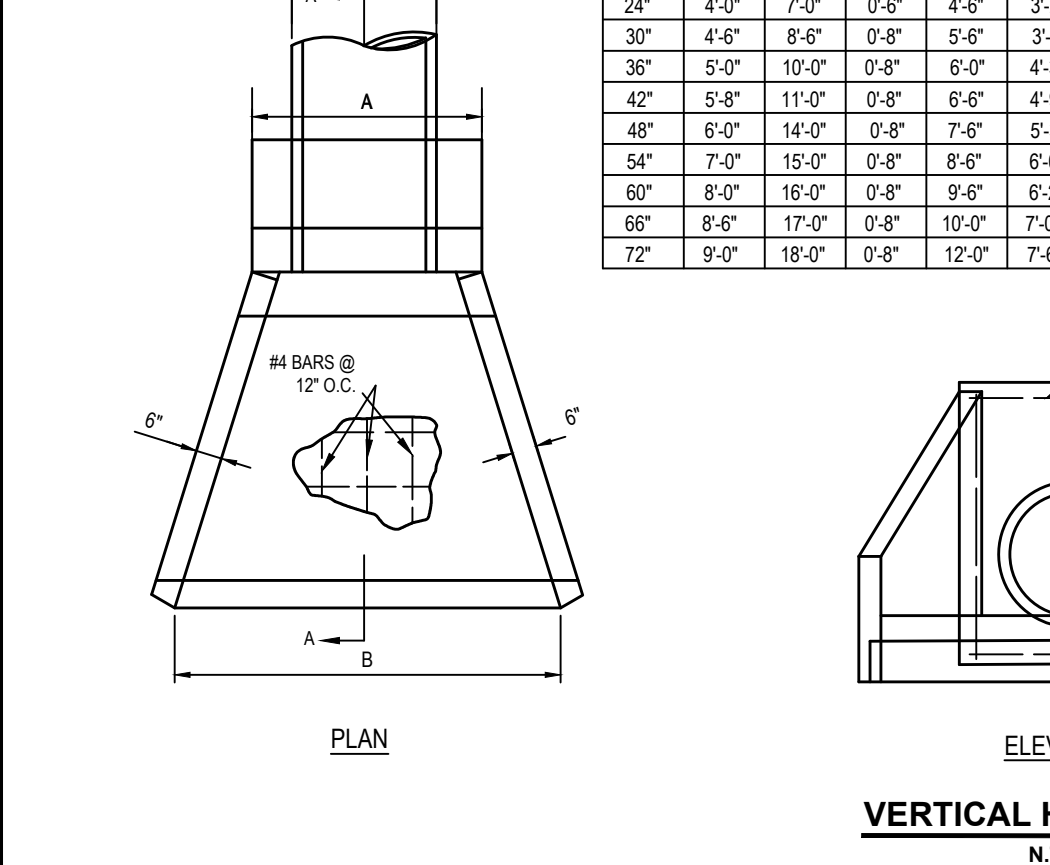
**18" CURB & GUTTER**  
N.T.S.



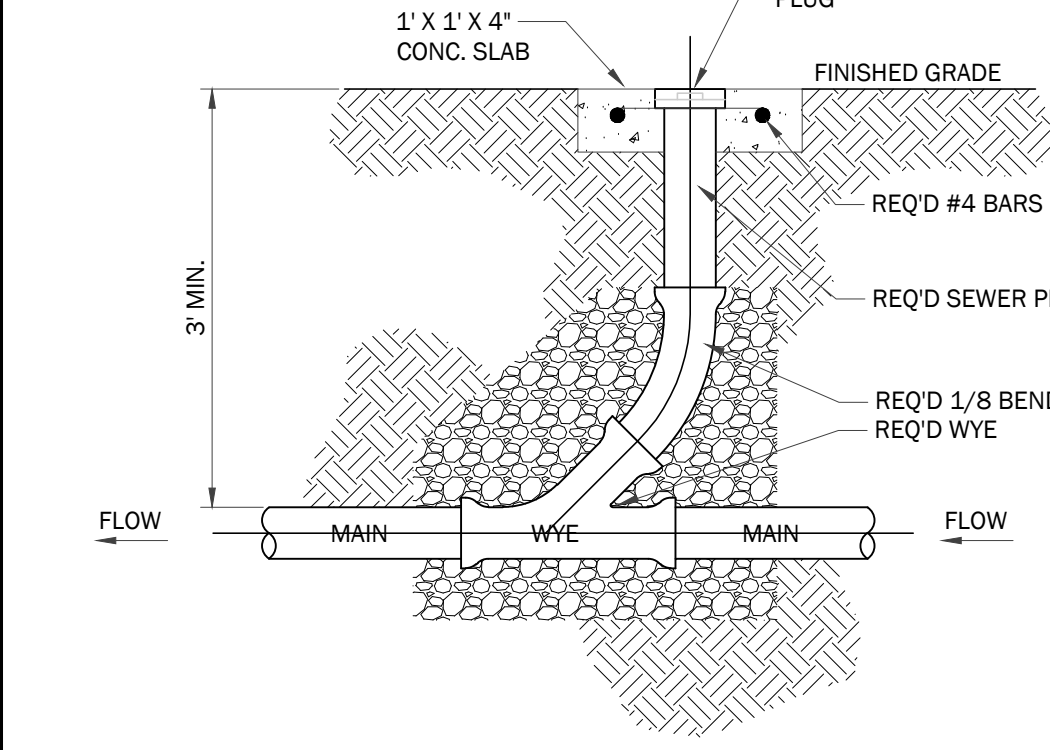
**CURB RAMP WITH SIDE FLARES**  
N.T.S.



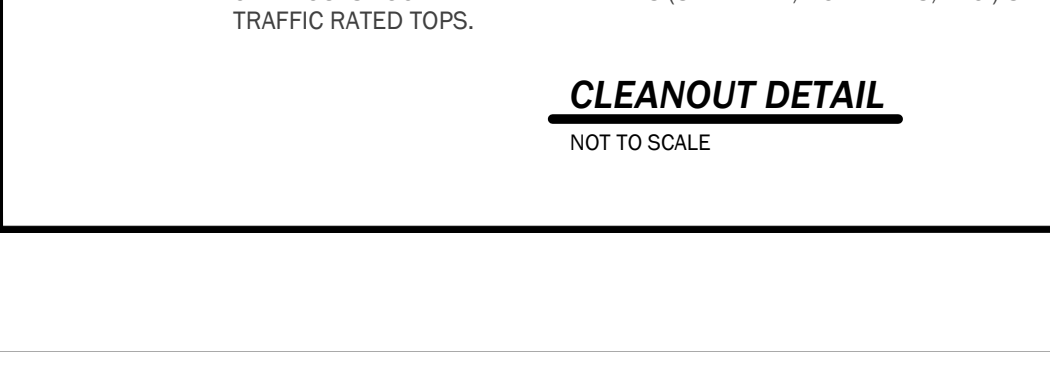
**FIRE HYDRANT ASSEMBLY**  
N.T.S.



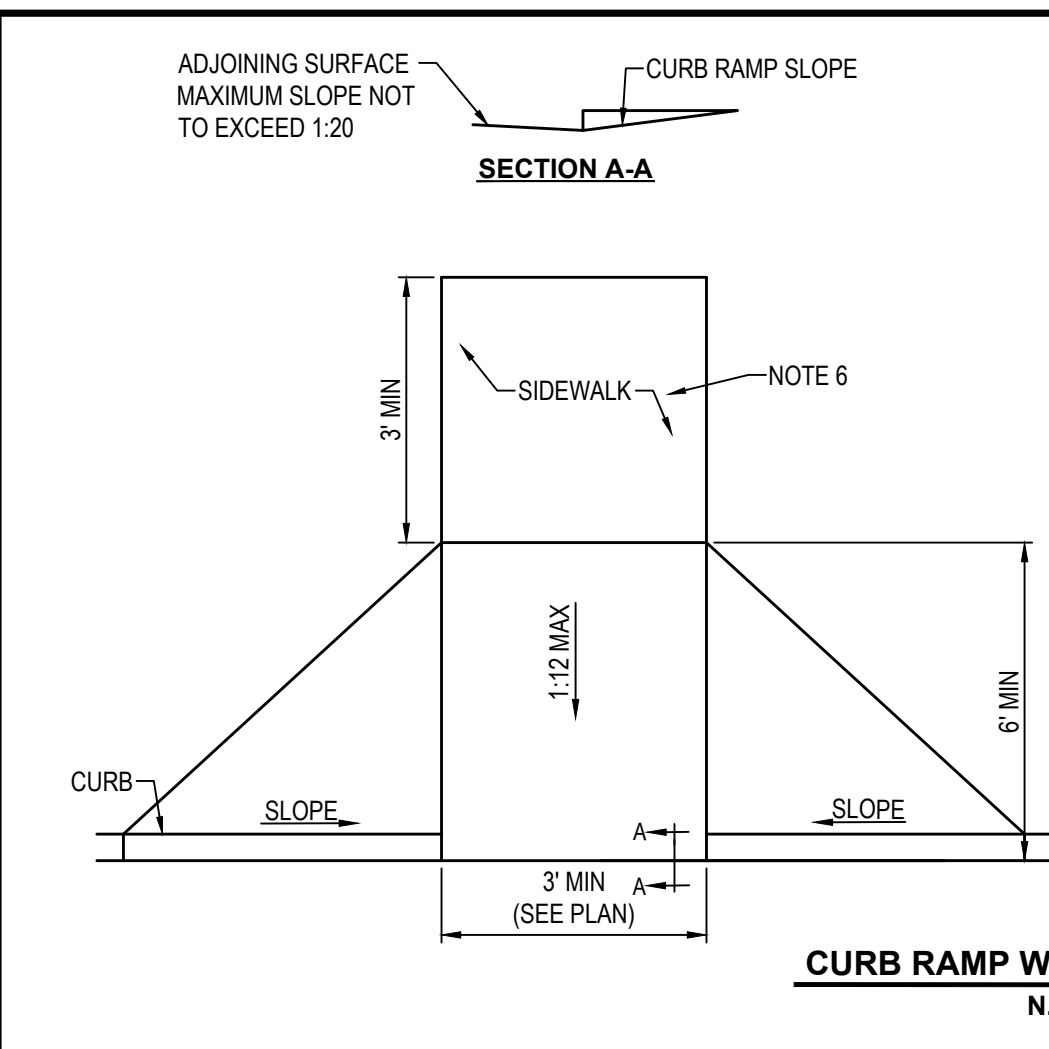
**TYPICAL THRUST BLOCK**  
N.T.S.



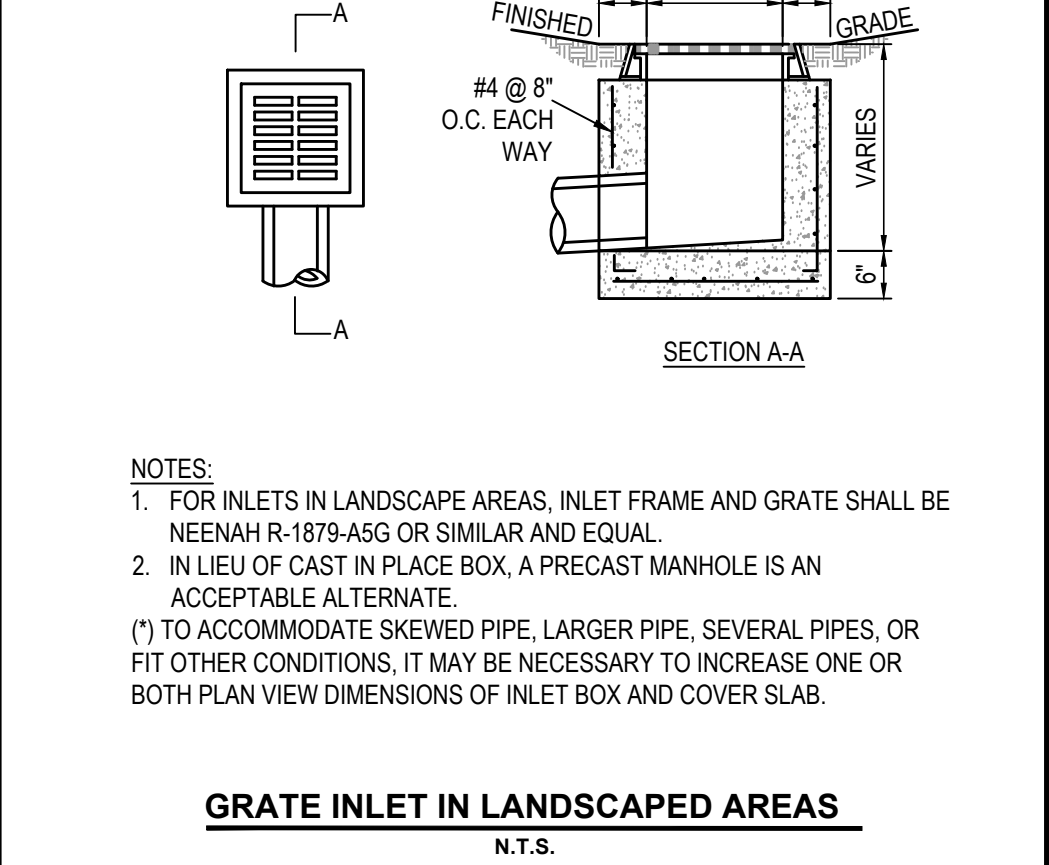
**CONCRETE PAVING**  
N.T.S.



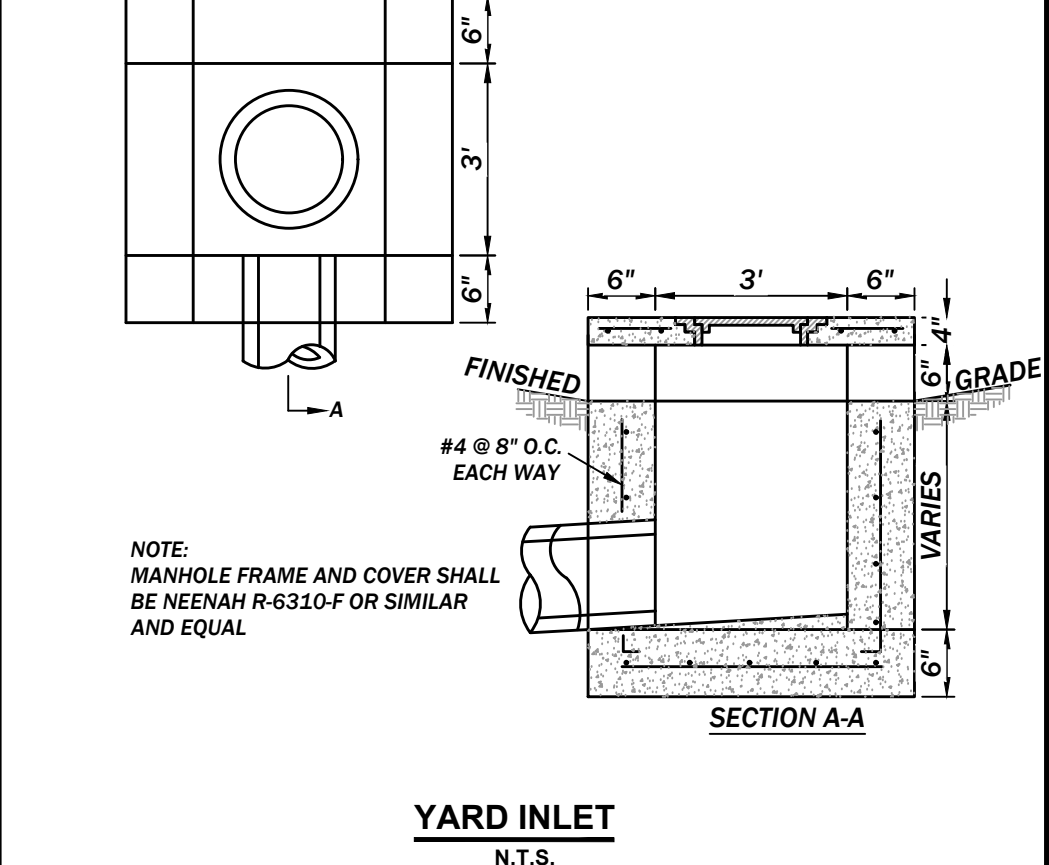
**YARD INLET**  
N.T.S.



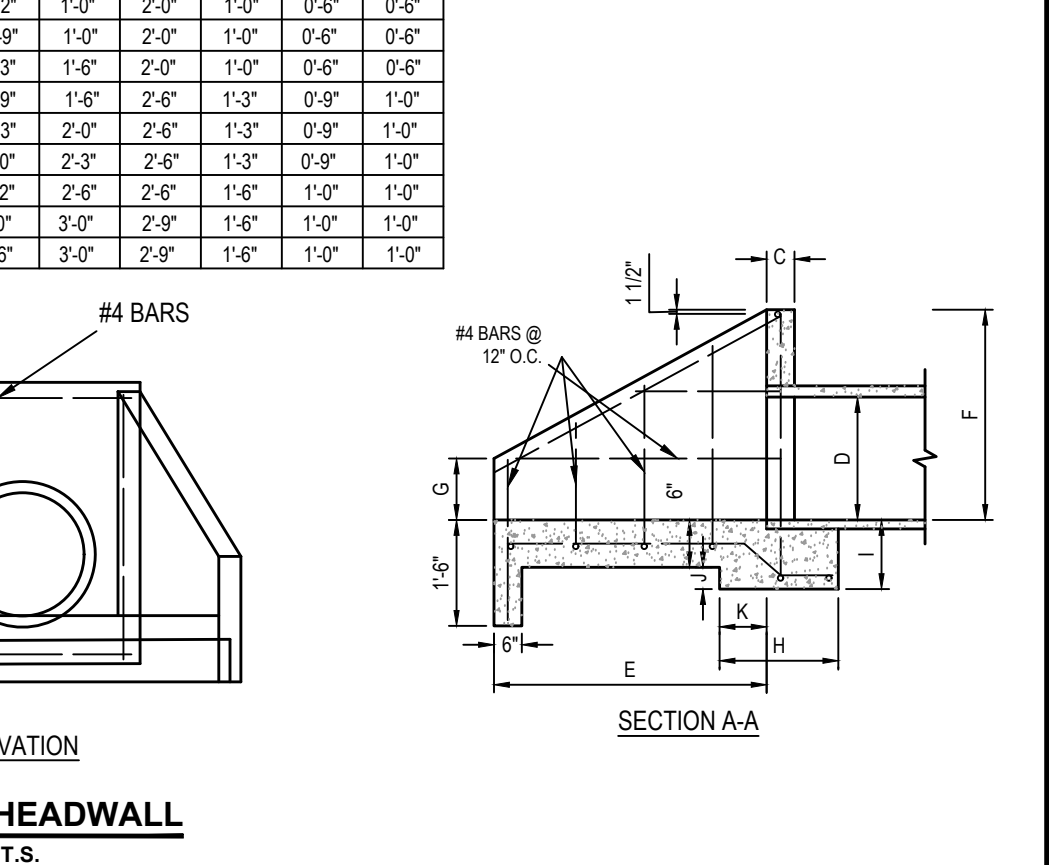
**GRATE INLET IN LANDSCAPED AREAS**  
N.T.S.



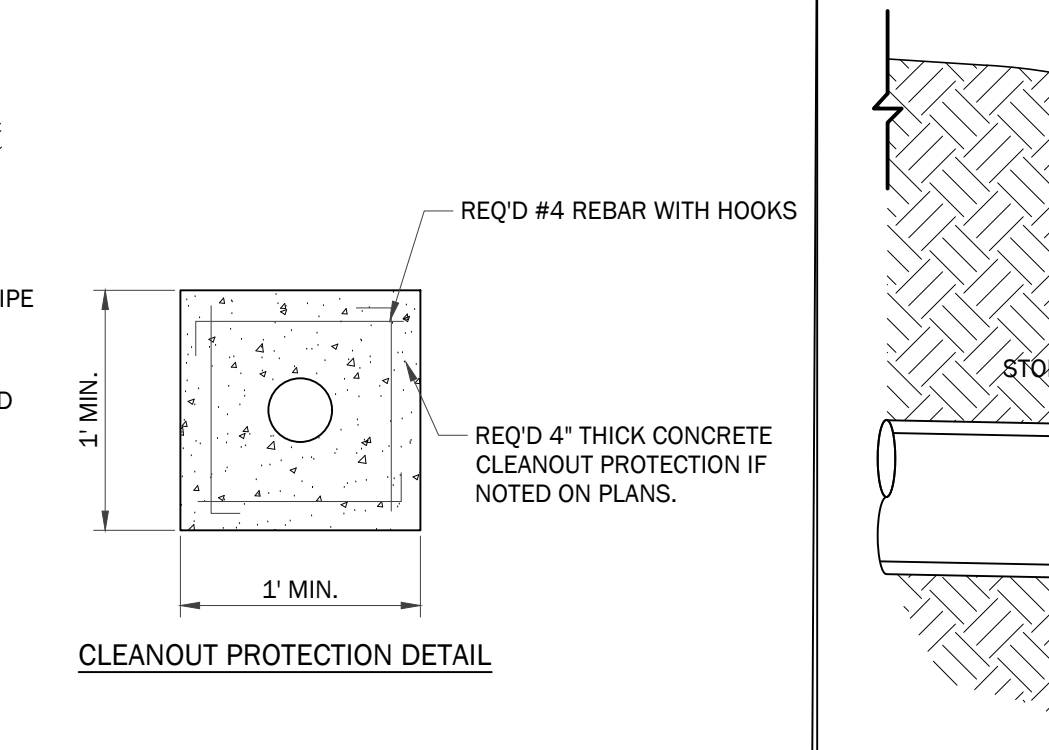
**STANDARD DUTY ASPHALT PAVING**  
N.T.S.



**BOLLARD MOUNTED ADA ACCESSIBLE SIGN**  
N.T.S.



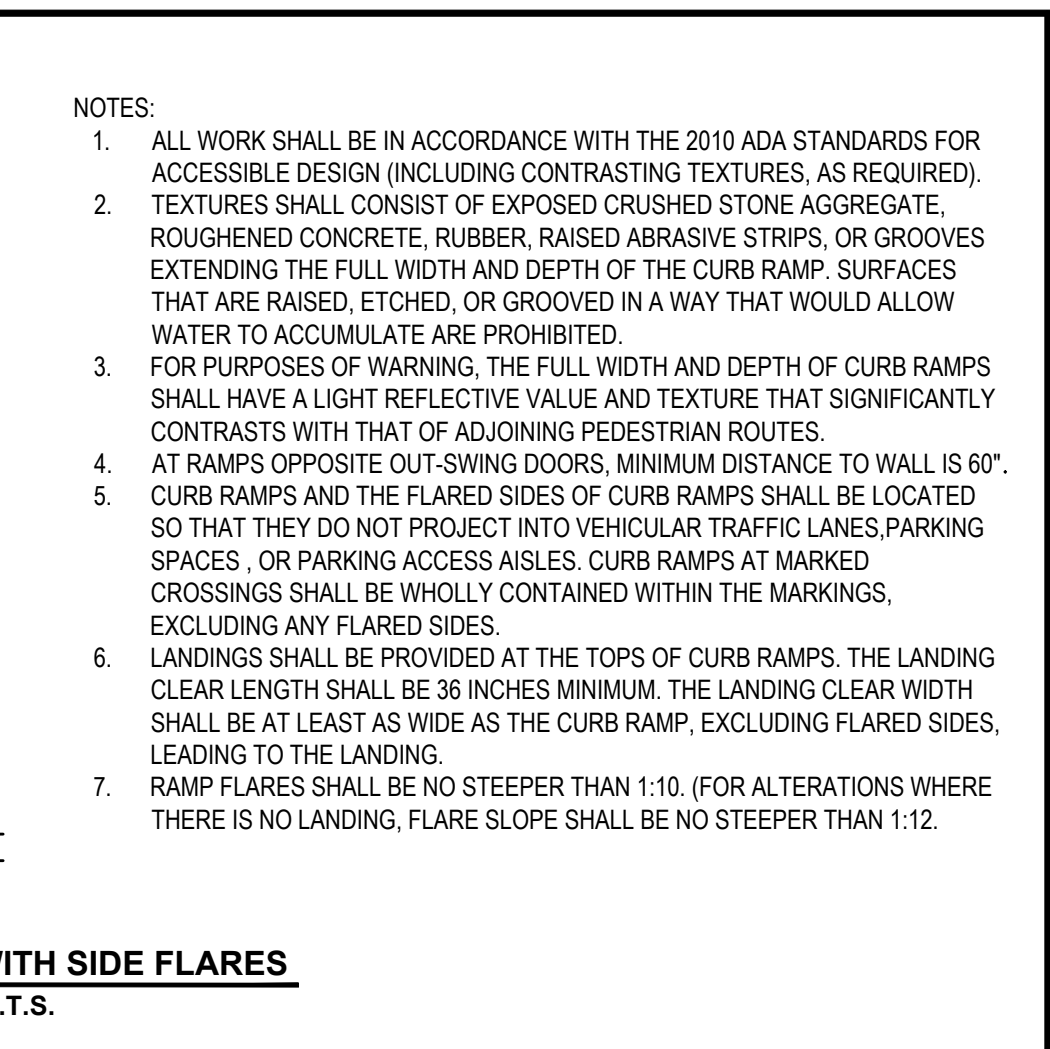
**PEDESTRIAN CROSSWALK**  
N.T.S.



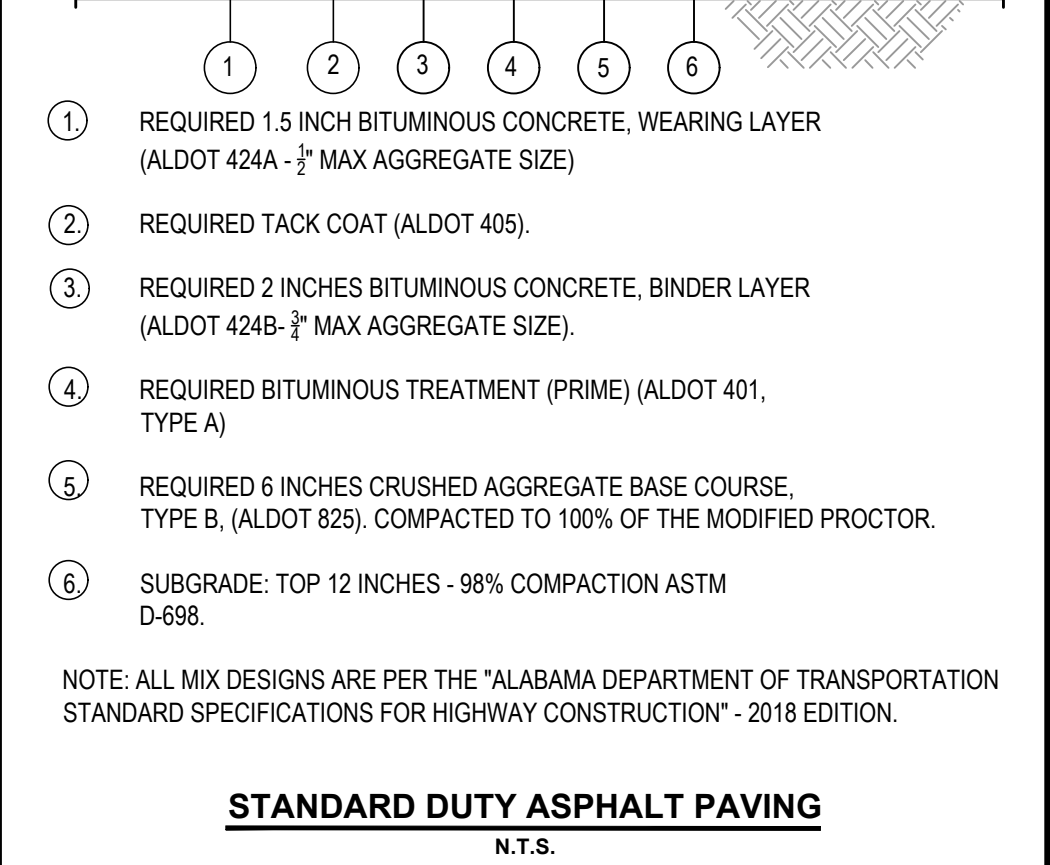
**GATE VALVE AND BOX DETAIL**  
NOT TO SCALE



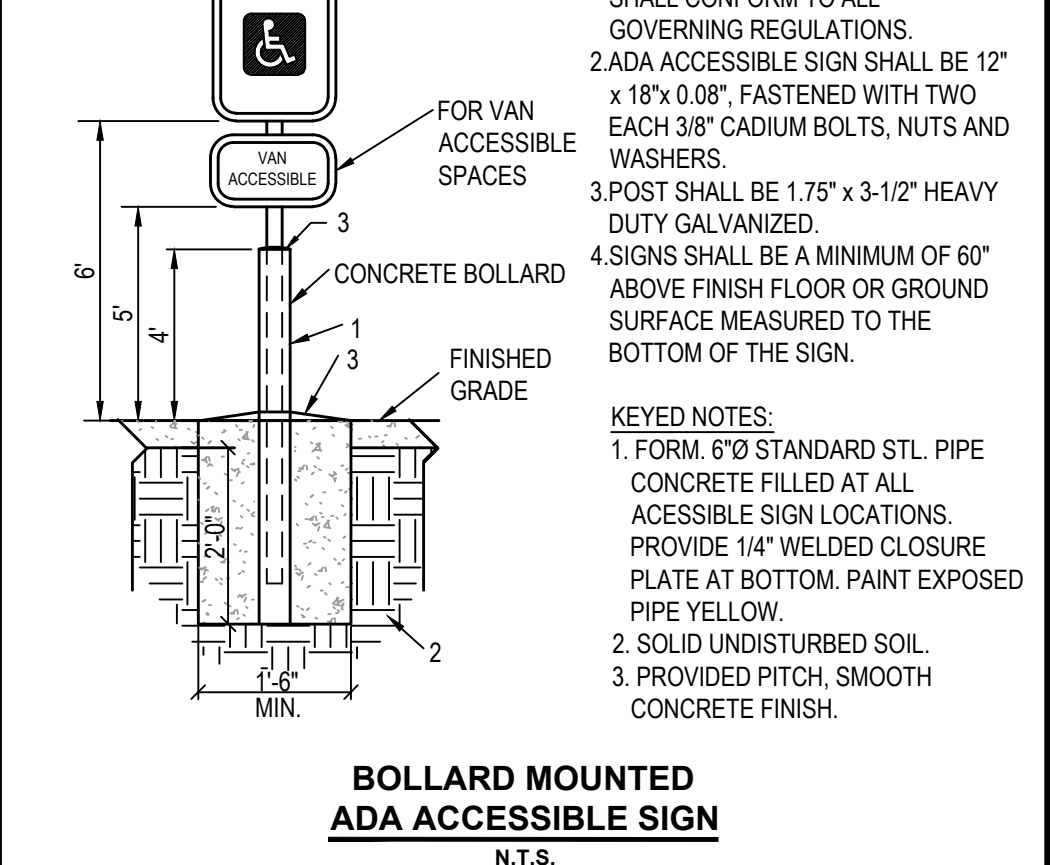
**VERTICAL HEADWALL**  
N.T.S.



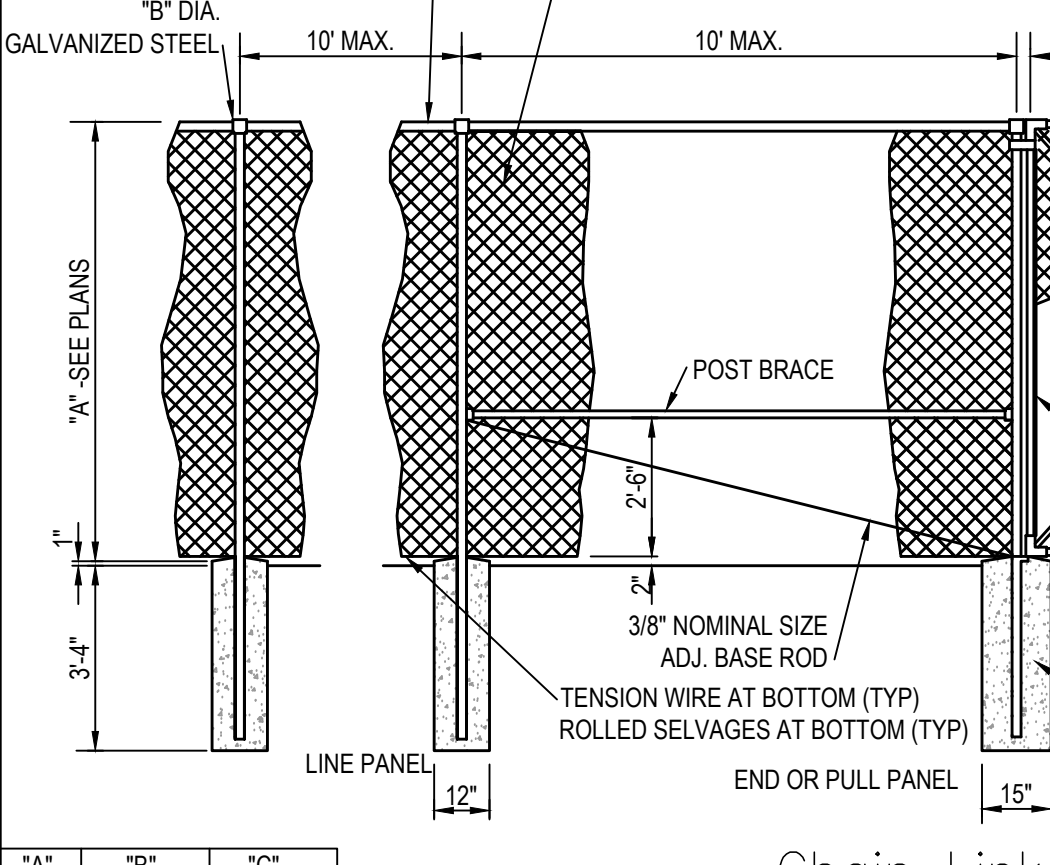
**CLEANOUT DETAIL**  
NOT TO SCALE



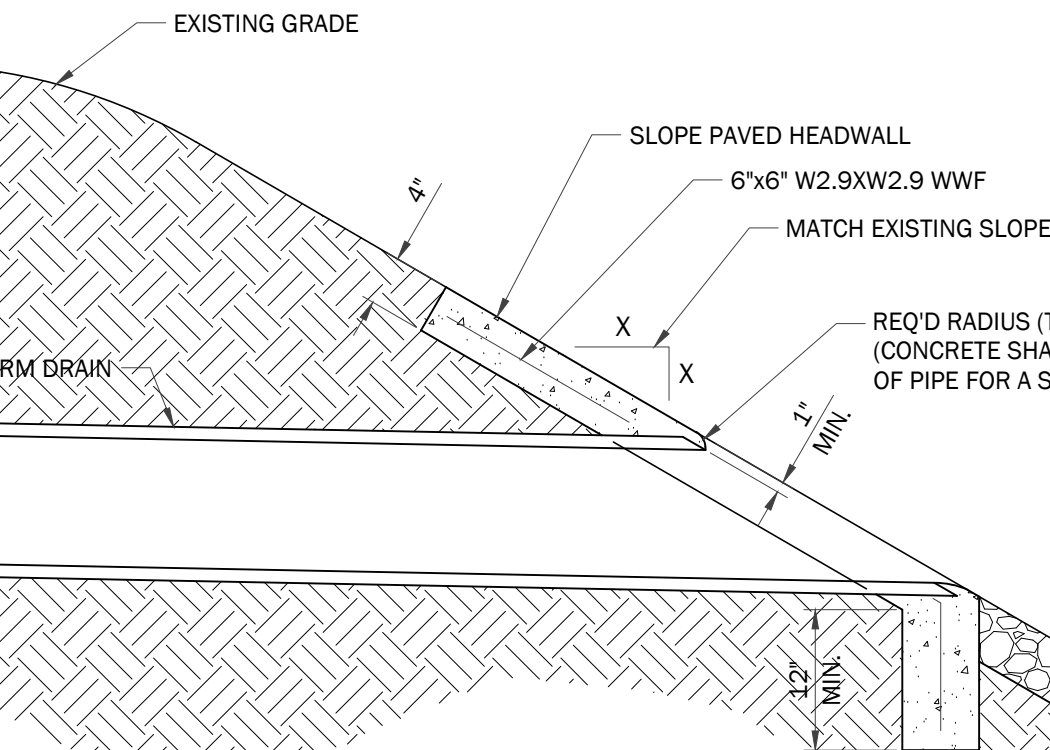
**SLOPE PAVED HEADWALL DETAIL**  
NOT TO SCALE



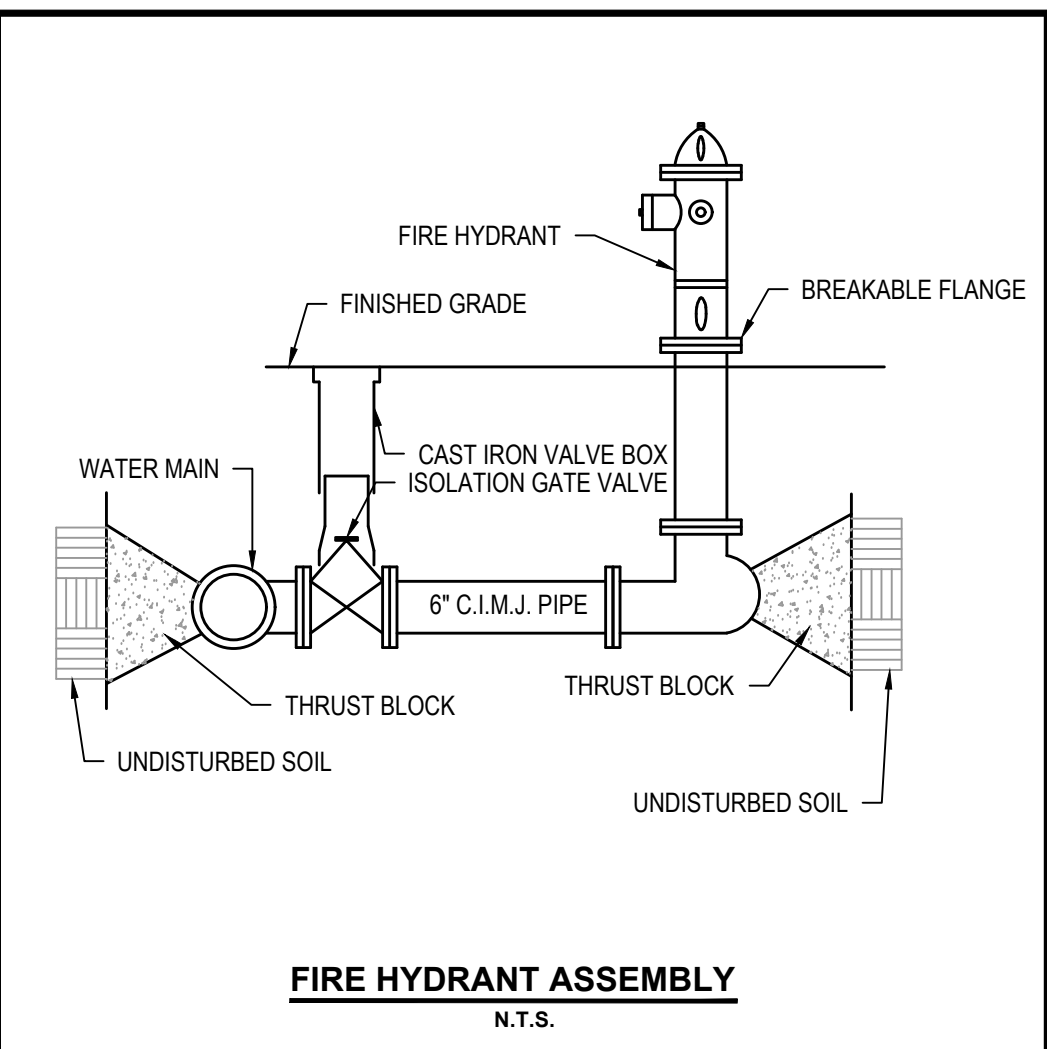
**STATIONARY BOLLARD**  
NOT TO SCALE



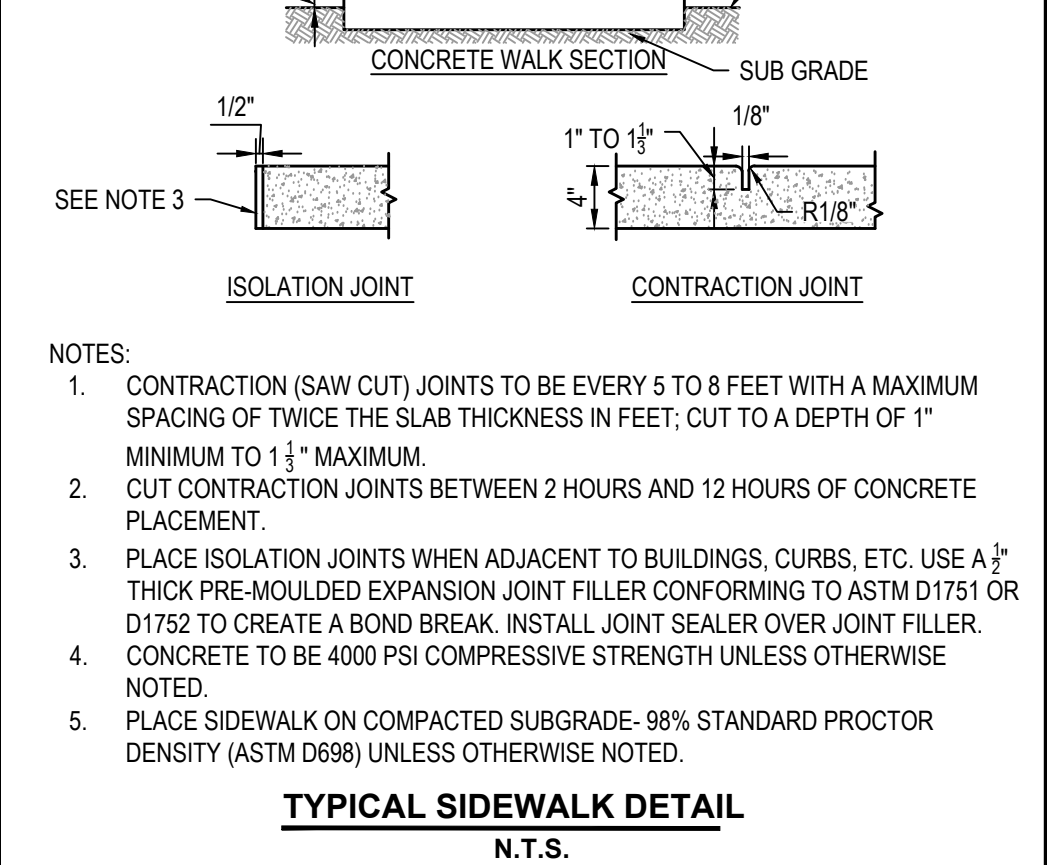
**OUTLET CONTROL STRUCTURE DETAIL**  
NOT TO SCALE



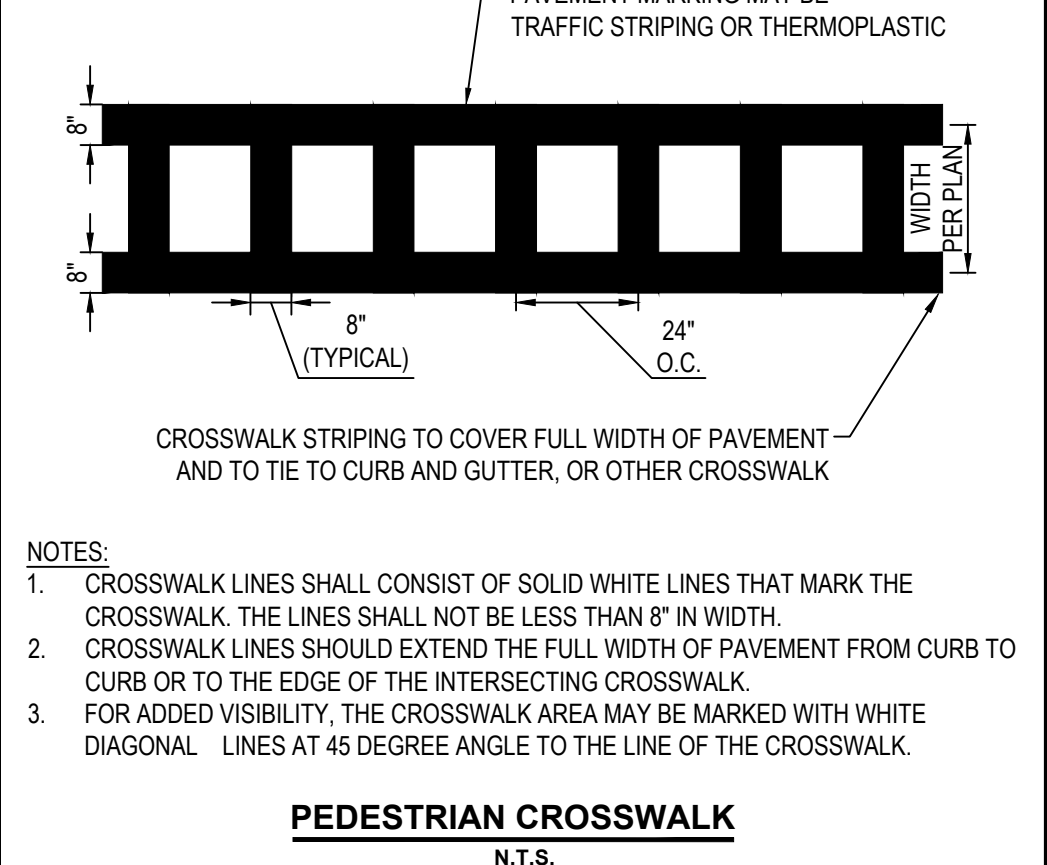
**TYPICAL STEP DETAIL WITH CHEEK WALL**  
NOT TO SCALE



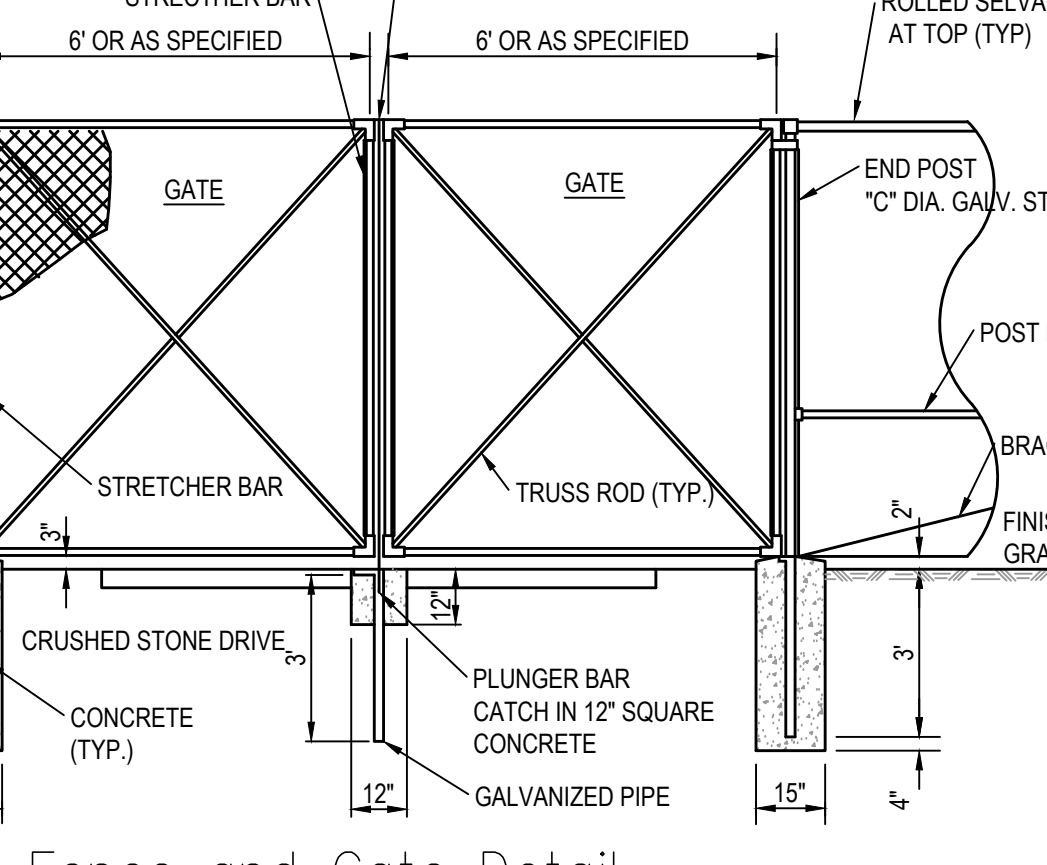
**Chain Link Fence and Gate Detail**  
N.T.S.



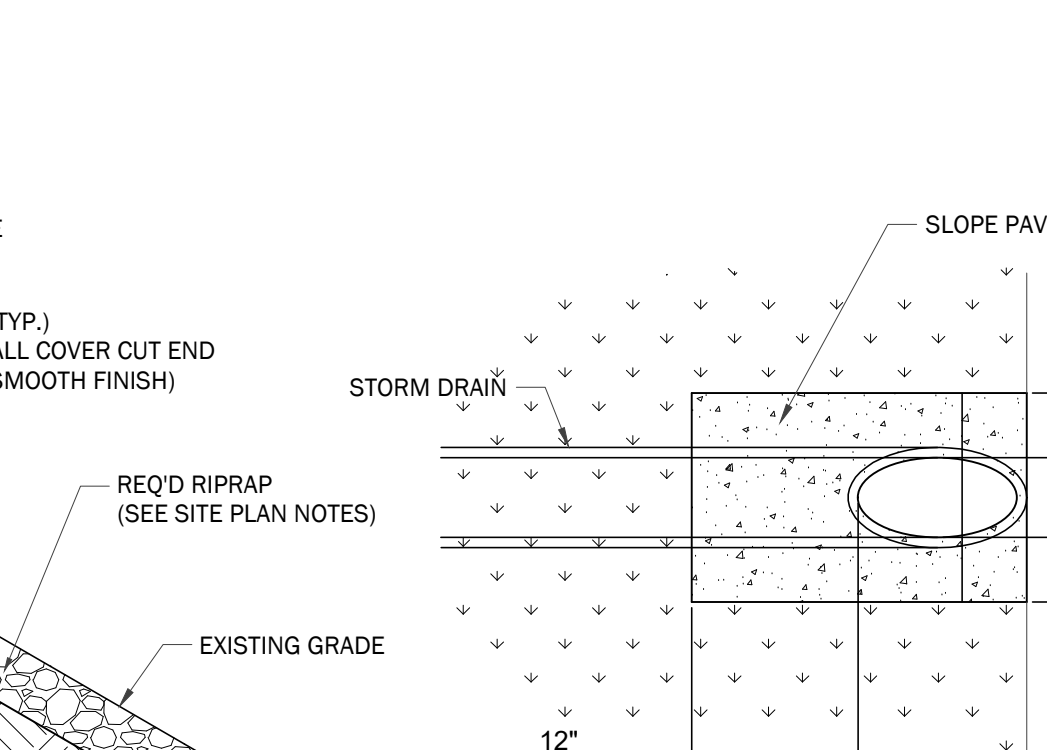
**CLEANOUT PROTECTION DETAIL**  
NOT TO SCALE



**SLOPE PAVED HEADWALL DETAIL**  
NOT TO SCALE



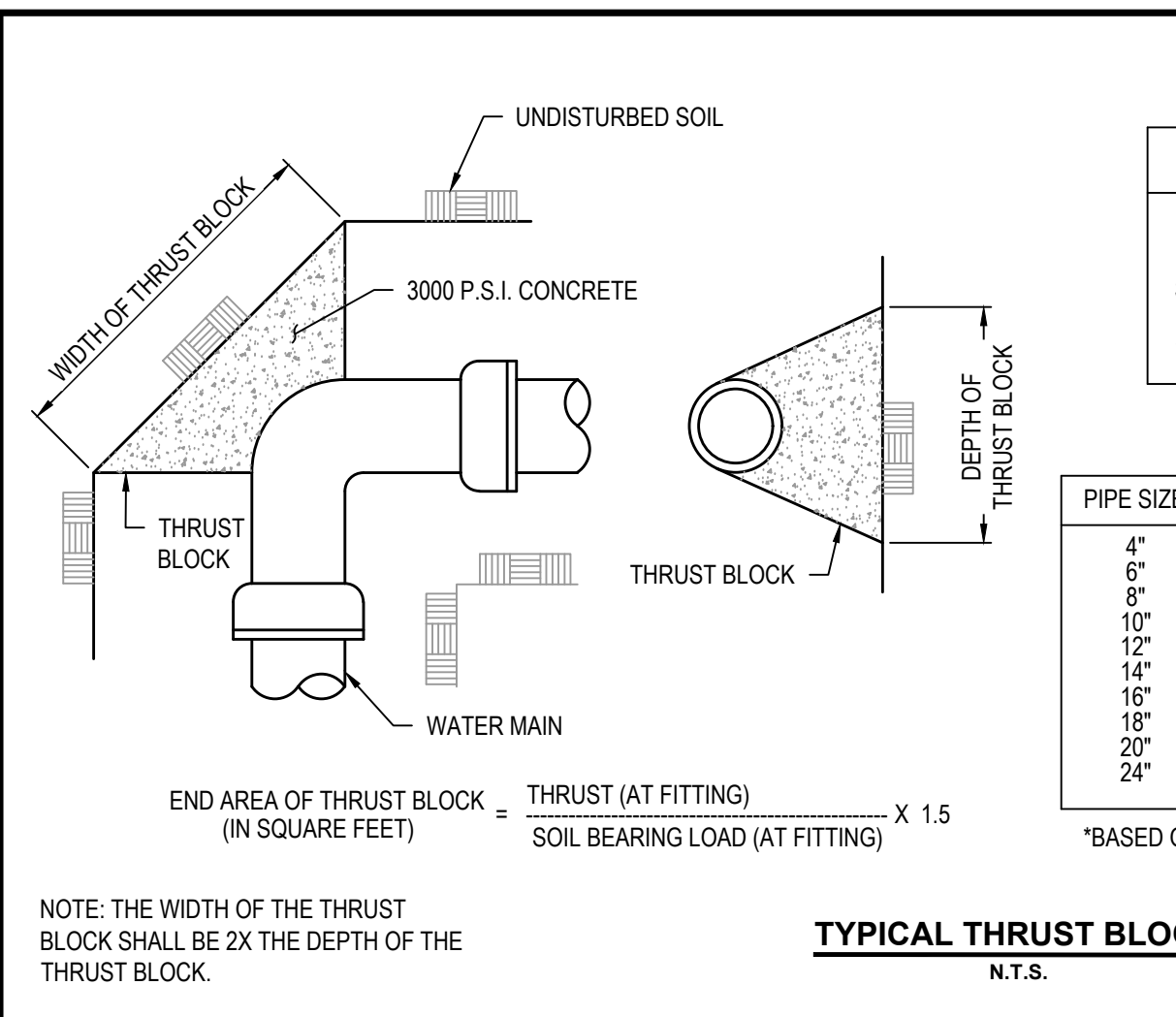
**STATIONARY BOLLARD**  
NOT TO SCALE



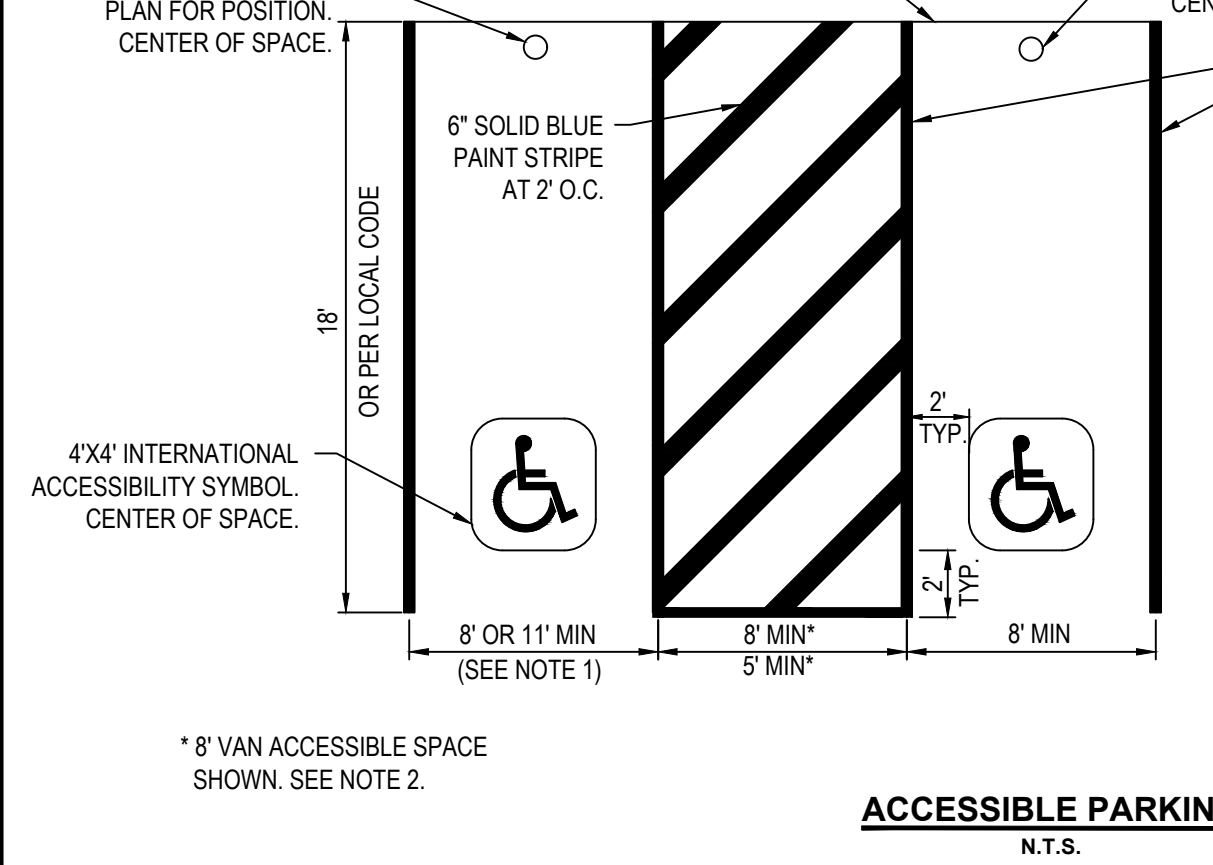
**OUTLET CONTROL STRUCTURE DETAIL**  
NOT TO SCALE



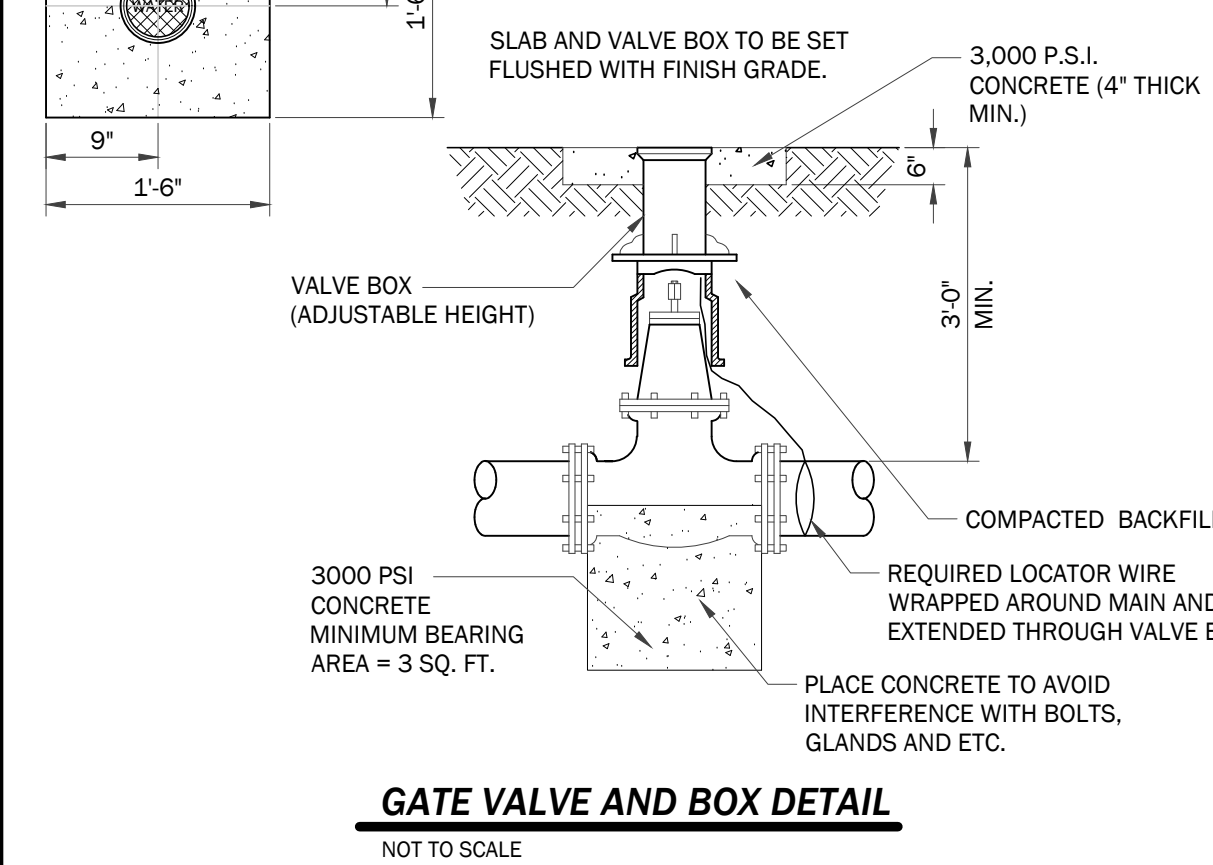
**TYPICAL STEP DETAIL WITH CHEEK WALL**  
NOT TO SCALE



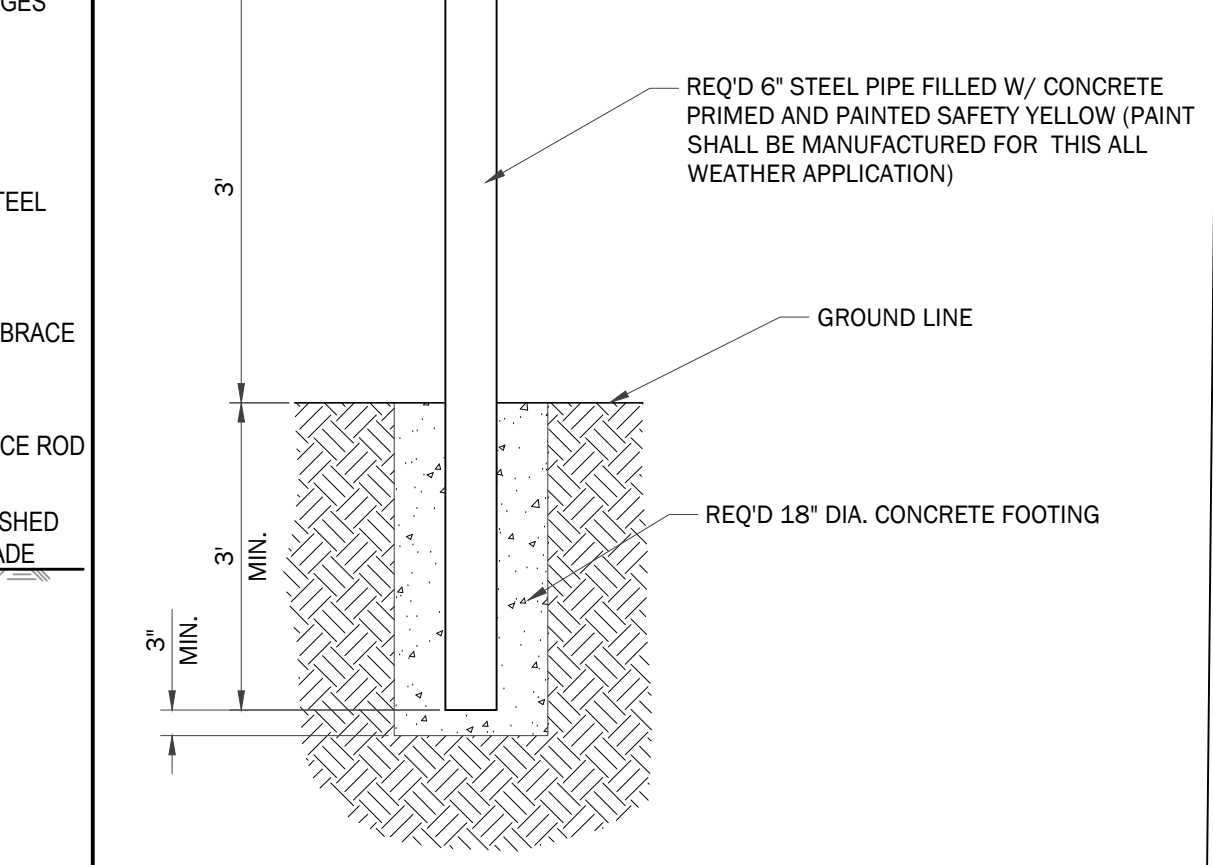
**SOIL BEARING LOAD**



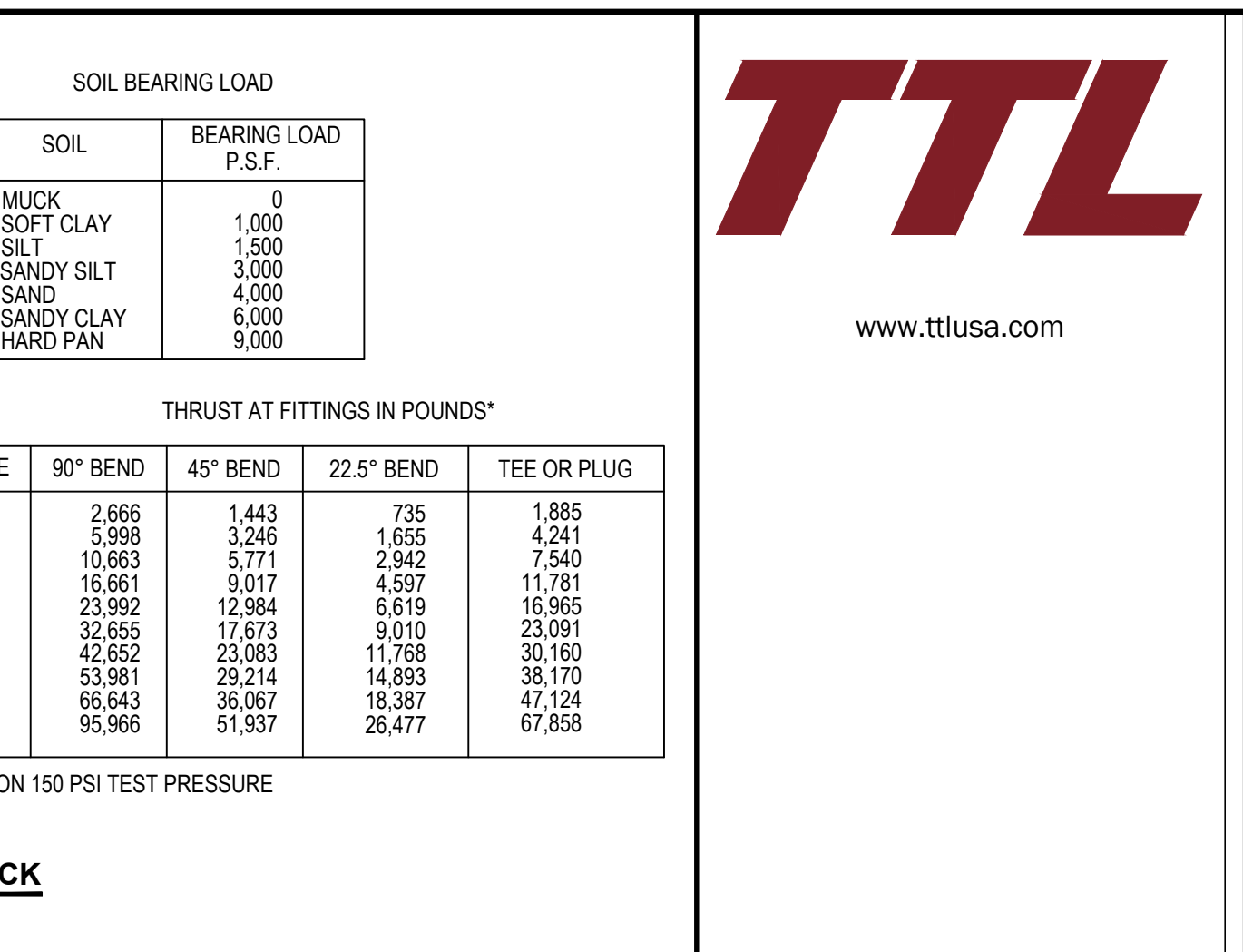
**THRUST AT FITTINGS IN POUNDS\***



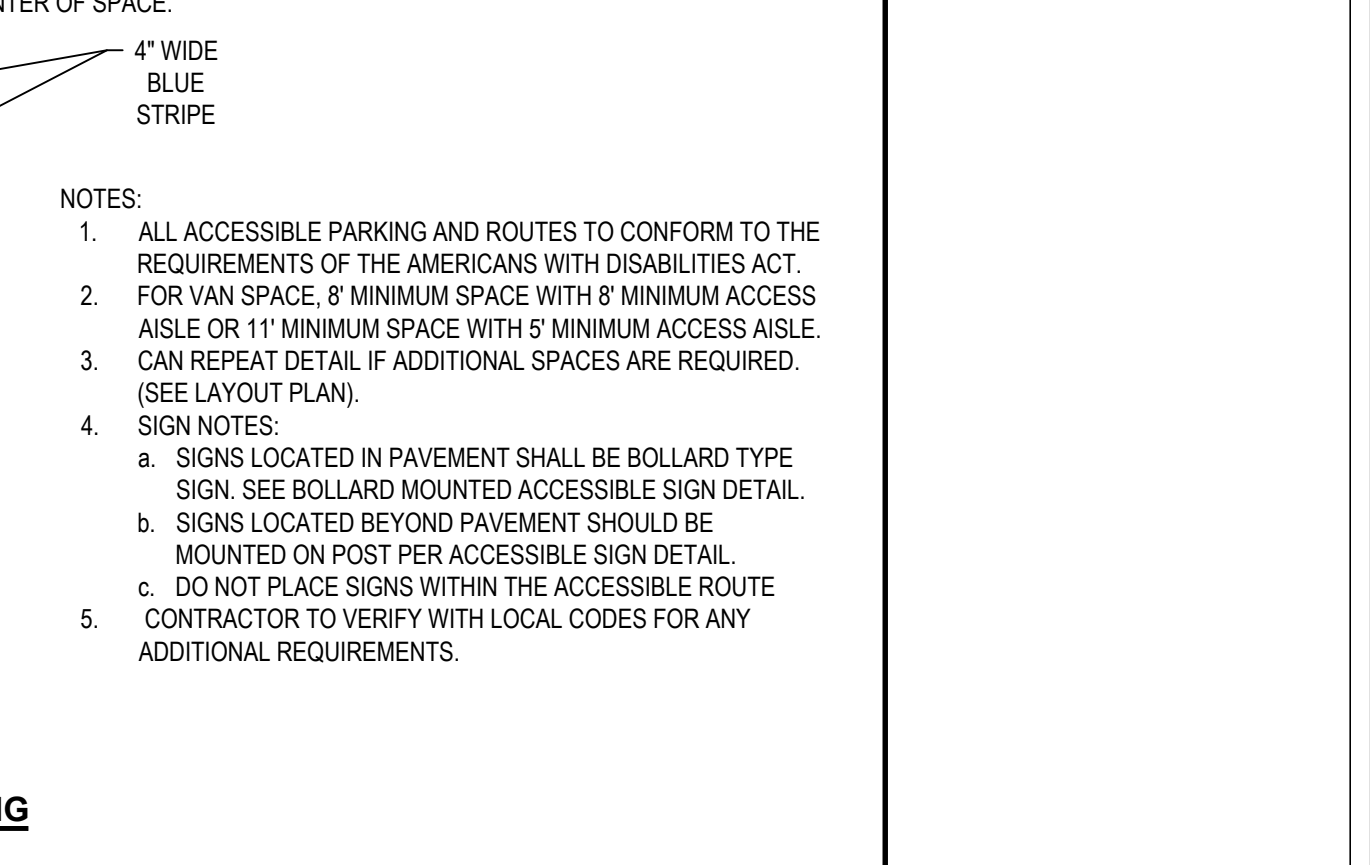
**ADA SIGN LAYOUT PLAN**



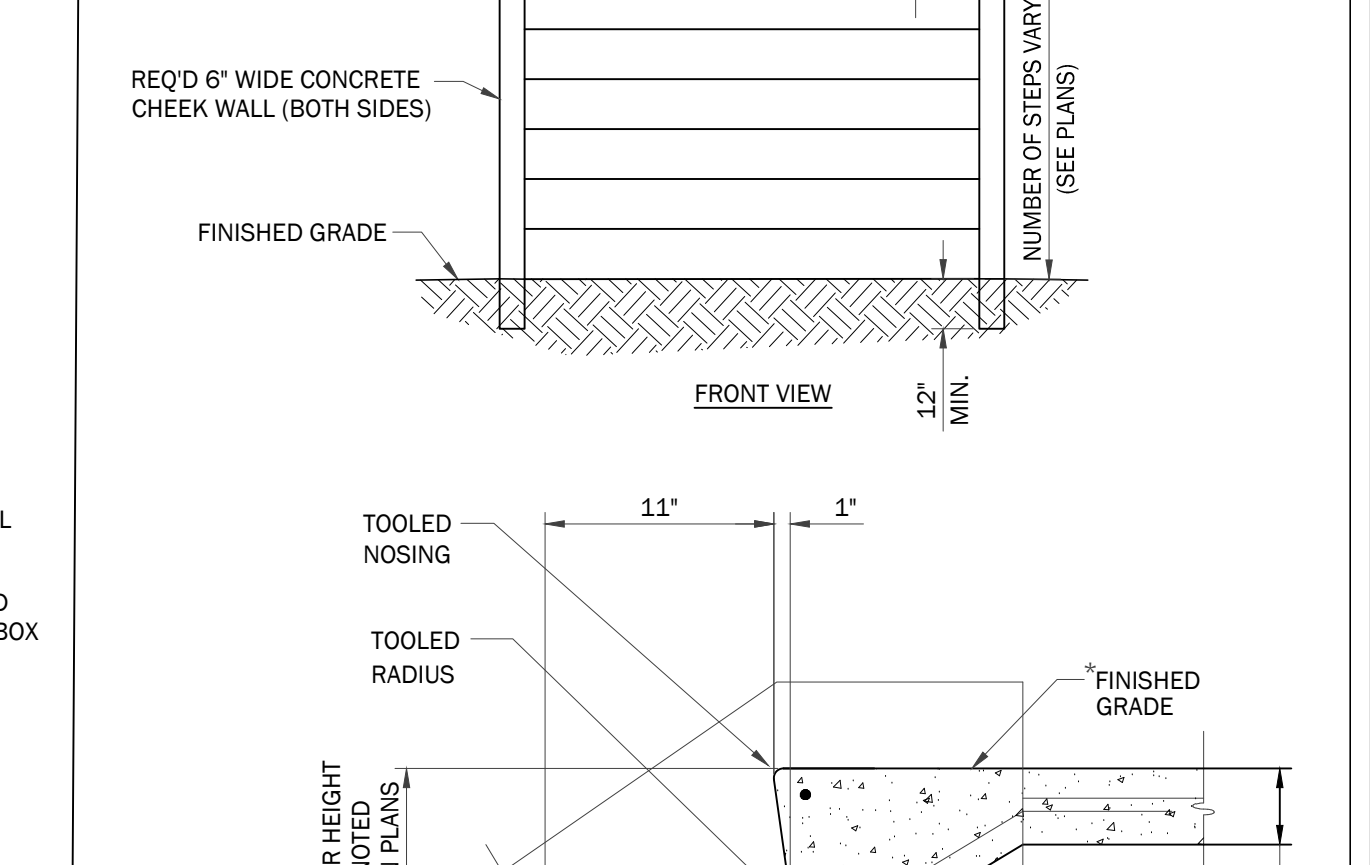
**ACCESSIBLE PARKING**  
N.T.S.



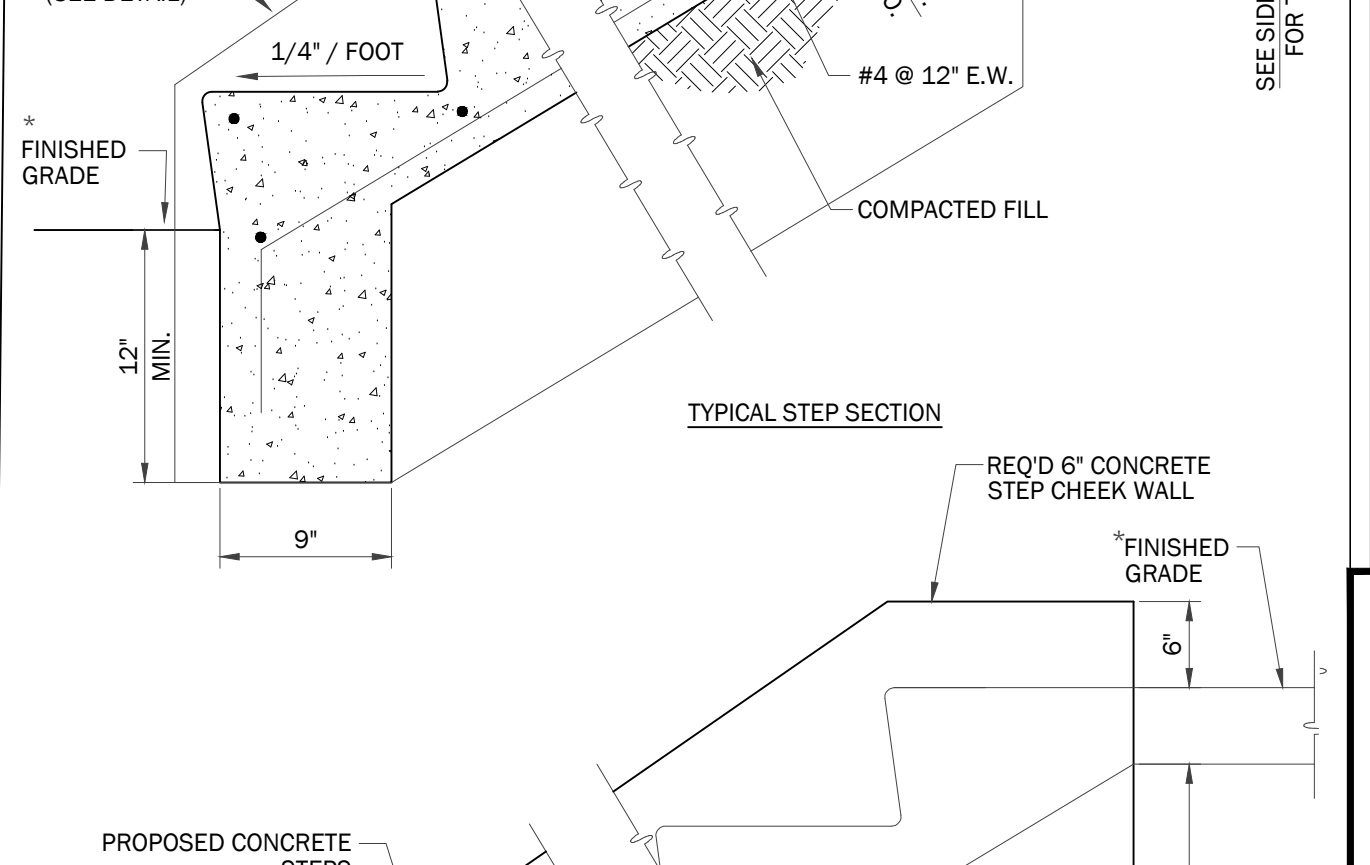
**CONCRETE PAVING NOTES**



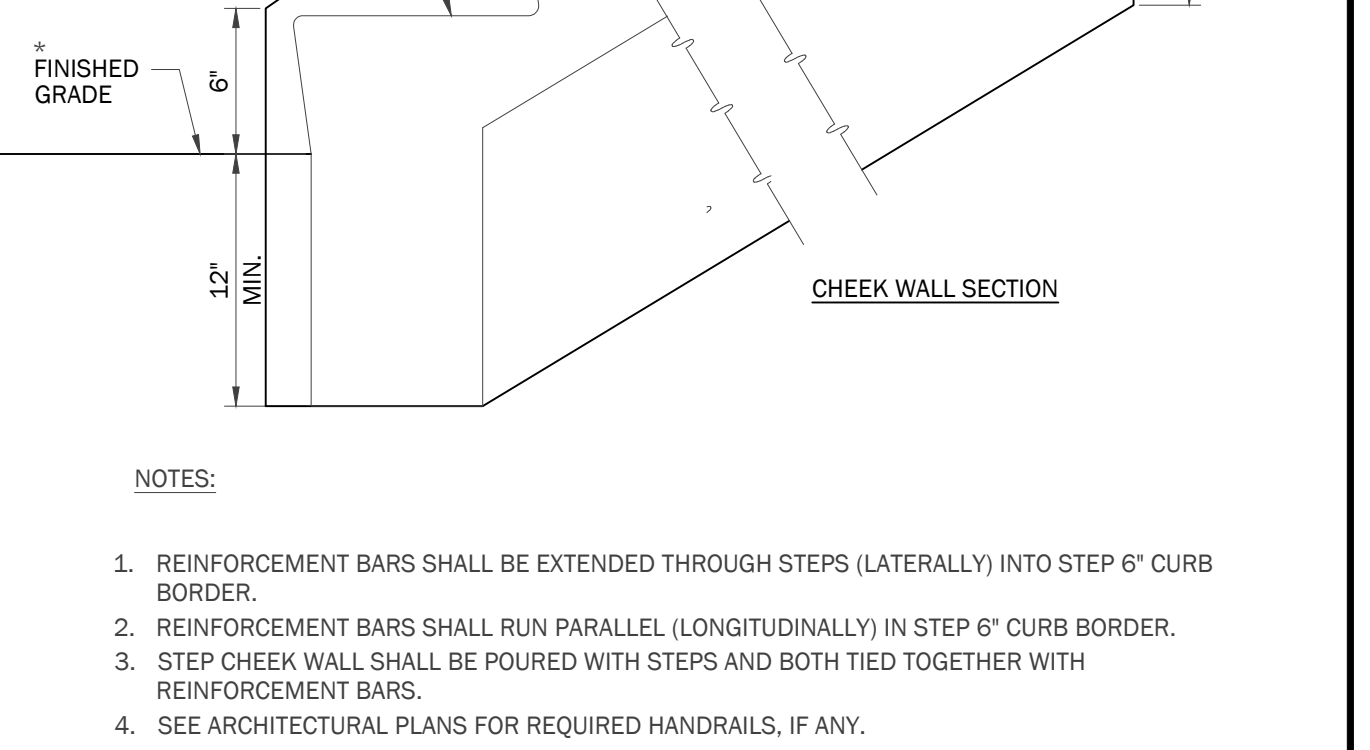
**YARD INLET NOTES**



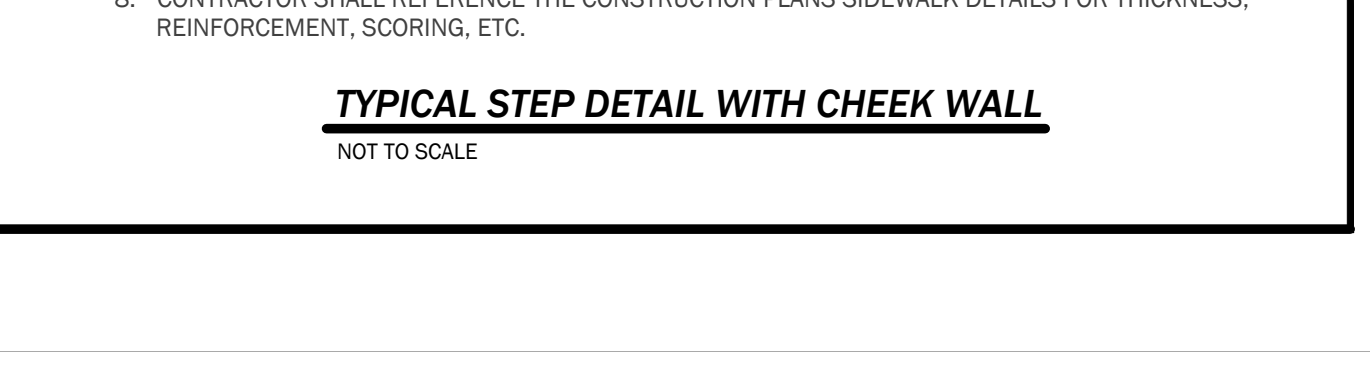
**GRATE INLET IN LANDSCAPED AREAS NOTES**



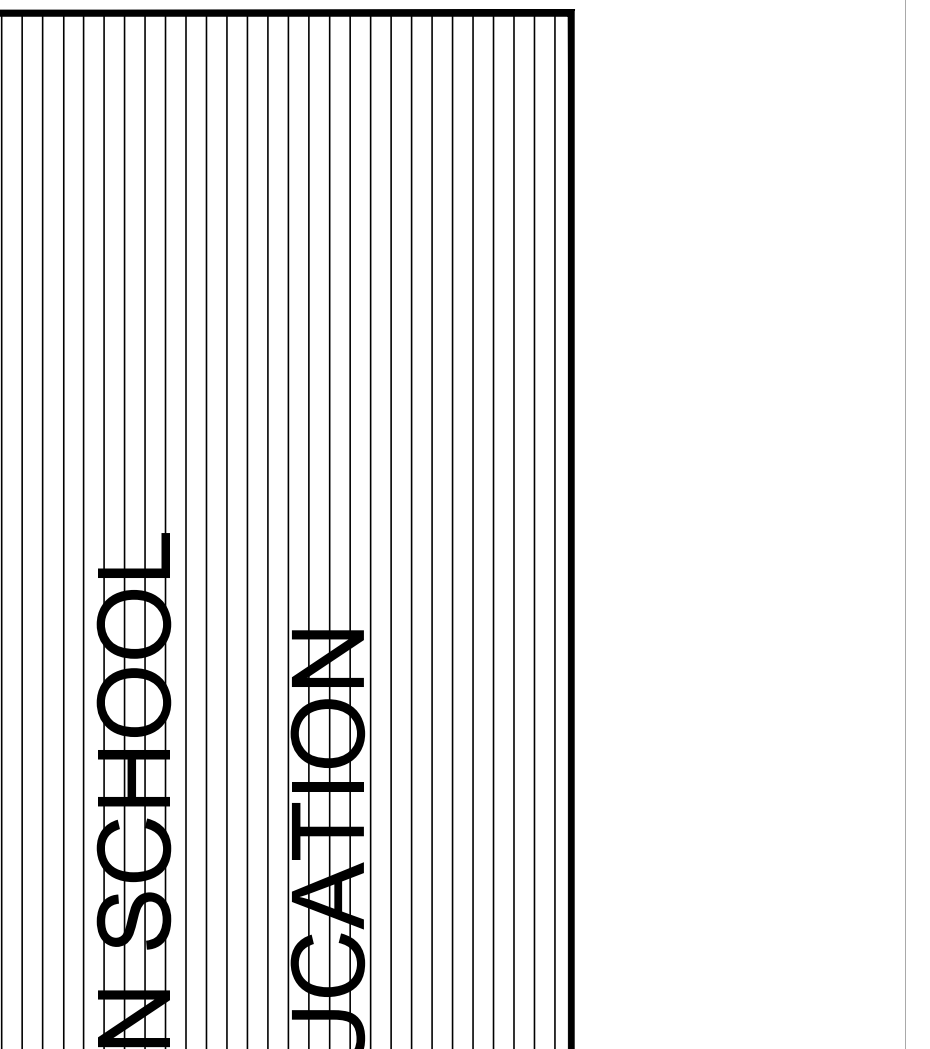
**STANDARD DUTY ASPHALT PAVING NOTES**



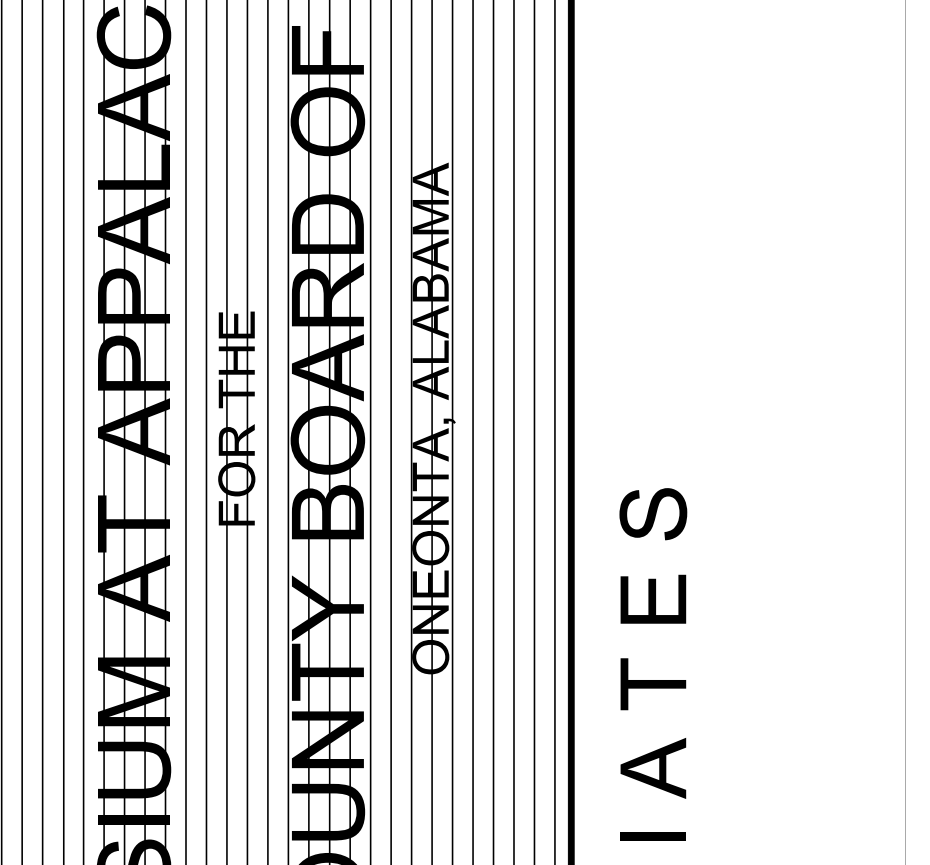
**BOLLARD MOUNTED ADA ACCESSIBLE SIGN NOTES**



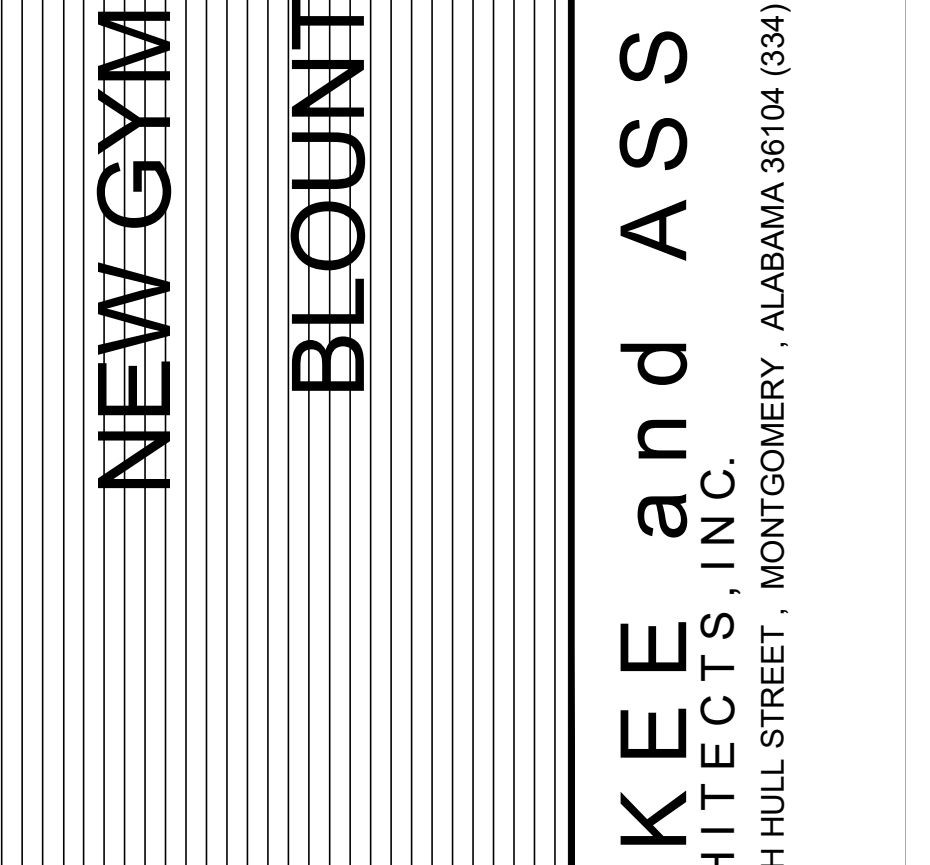
**PEDESTRIAN CROSSWALK NOTES**



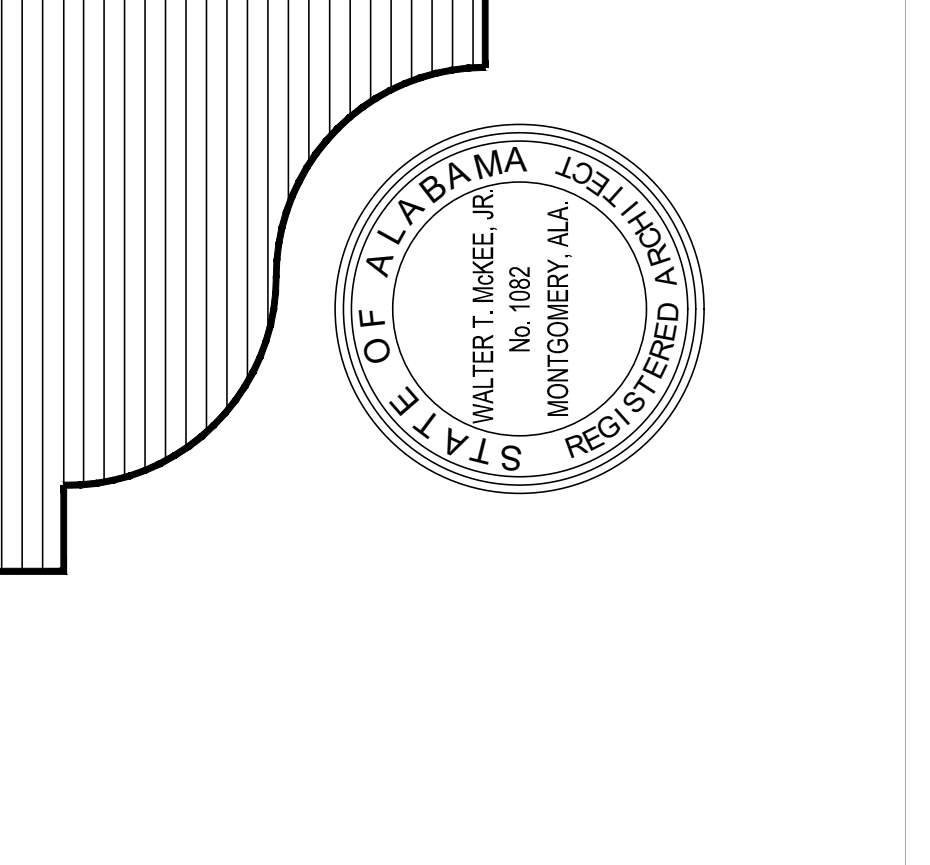
**GATE VALVE AND BOX DETAIL NOTES**



**VERTICAL HEADWALL NOTES**



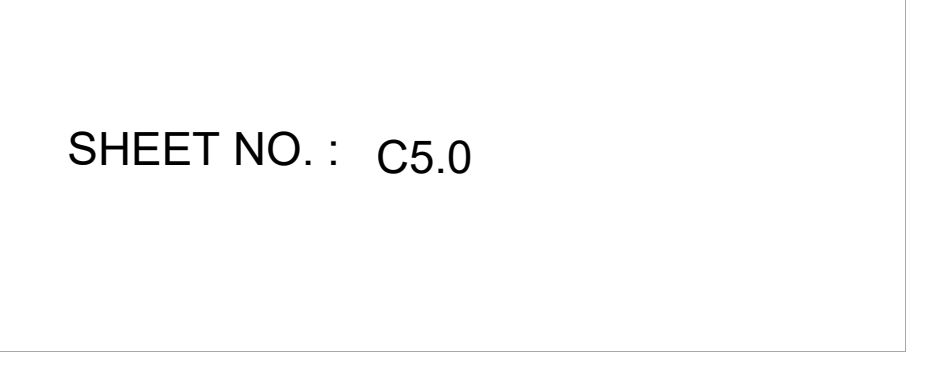
**CLEANOUT DETAIL NOTES**



**SLOPE PAVED HEADWALL DETAIL NOTES**



**STATIONARY BOLLARD NOTES**



**OUTLET CONTROL STRUCTURE DETAIL NOTES**



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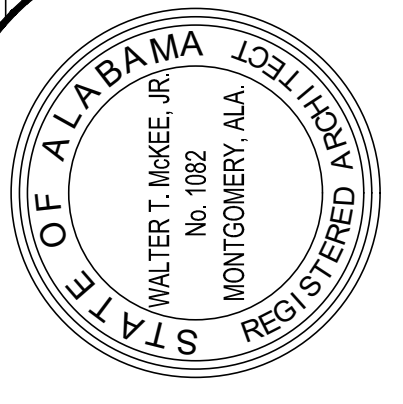
NEW GYMNASIUM AT APPALACHIAN SCHOOL

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : CIVIL DETAILS

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE : 9/18/2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : C5.0

-X:\2024\11\24-11-01\555.00\McKee & Associates - Appalachian School - Gym Addition\Civil\Construction Plans\Appalachian HS Gym Addition.dwg  
Wednesday, September 18, 2024 1:24:12 PM



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.

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 INSPECTION 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.

GEOTECHNICAL INFORMATION

- 1. THE FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE REPORT OF GEOTECHNICAL SUBSURFACE INVESTIGATION BY TERRACON INC. 2022 (TERACON191). 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.

FOUNDATIONS

- 1. THE "CONTROLLED AREA" SHALL EXTEND BENEATH AND 5 FEET BEYOND THE BUILDING AREA. THE "CONTROLLED AREA" SHALL BE COMPLETELY STRIPPED AND ALL SURFACE VEGETATION, ORGANIC FILL OR TOPSOIL, DEBRIS AND ANY OTHER

CONCRETE

- 1. CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318).

MASONRY

- 1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOADBEARING CONFORMING TO ASTM C 90 ALL LOCATIONS.

STRUCTURAL STEEL

- 1. STRUCTURAL W-SECTION SHAPES SHALL CONFORM TO ASTM A992.

DETERMINED DESIGN SUBMITTALS

- 1. THE FOLLOWING ITEMS ARE SPECIFIED AS PART OF A DELEGATED DESIGN AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.

DELEGATED STEEL STAIR AND HANDRAIL DESIGN

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DESIGN OF THE PRE-FABRICATED STAIRS, LANDINGS, TREADS, AND HANDRAILS WITH AN APPROVED STEEL FABRICATOR.

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.

PRE-ENGINEERED METAL ROOF TRUSSES

- 1. 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.

STEEL DECK

- 1. TYPICAL ROOF DECK SHALL BE 22 GAUGE, TYPE "B" (WIDE RIB) CORRUGATED DECK WHERE INDICATED ON THE ROOF PLAN, WITH THE FOLLOWING MINIMUM PROPERTIES:

SHEATHING

- 1. WALL SHEATHING SHALL BE 1/2" X 4" 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.

COLD-FORM METAL FRAMING

- 1. CPMF SHALL BE DESIGNED ACCORDING TO THE AMERICAN IRON AND STEEL INSTITUTE (AISI) S100 (LATEST EDITION).

DESIGN LOADS AND PARAMETERS

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

APPLICABLE CODES

- IBC 2021 INTERNATIONAL BUILDING CODE ASCE 7-16 FLOOD RESISTANT DESIGN AND CONSTRUCTION ( ) ACI 318 AMERICAN CONCRETE INSTITUTE AISI 360 AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISI S100 MEMBERS CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL MEMBERS

SPREAD FOOTING SCHEDULE

Table with columns: MARK, SIZE, REINF. EA. WAY. Rows include SF-2.5, SF-3, SF-3.5, SF-4, SF-4.5, SF-5, SF-5.5, SF-6, SF-6.5, SF-7, SF-7.5, SF-8, SF-8.5, SF-9, SF-9.5, SF-10, SF-10.5, SF-11, SF-11.5, SF-12.

SPREAD FOOTING NOTES

- 1. NOT ALL FOOTINGS ARE NECESSARILY USED. 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

Table with columns: MARK, LOCATION, SIZE, MAX HT., VERT. REINF., GROUT. Rows include W-1, W-2, W-3.

WALL SCHEDULE NOTES

- 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.

8" CMU REINFORCEMENT LAP SPlice SCHEDULE

Table with columns: MASONRY STRENGTH (Psi), BAR SIZE (#), DEVELOPMENT LAP LENGTH (FT.-IN.), NOTES. Row includes 2500.

CONCRETE REINFORCEMENT LAP SPlice SCHEDULE

Table with columns: BAR SIZE (#), SPLICE TYPE, TOP BAR (IN.), OTHER BAR (IN.), 3000 PSI, 4000 PSI, 5000 PSI.

REINFORCEMENT LAP SPlice NOTES

- 1. "TOP BAR" INDICATES MORE THAN 12" OF FRESH CONCRETE PLACED BELOW SPICE (L = 1.3).

STANDARD ABBREVIATIONS AND SYMBOLS

Table with columns: R.#, AND, DIAMETER, DEGREE, ABOVE FINISH FLOOR, ANCHOR BOLT, ADDL., ALTERNATE, ARCHITECTURAL / ARCHITECT, BOTTOM OF BRICK LINTEL, BOTTOM, BASE PLATE#, BEARING, BOTH WAYS, CENTER TO CENTER, SAW CUT CONTROL JOINT, CONCRETE BEAM#, CONCRETE COLUMN#, COLD FORM METAL FRAMING, CAST IN PLACE, CENTERLINE, CONCRETE MASONRY UNIT, COLUMN, COORDINATE, DEMOLISH, DETAIL, DEAD LOAD, DRAWINGS, EXPANSION JOINT, EDGE OF DECK, EDGE OF SLAB, EACH, EACH FACE, ELEVATION, EQUAL, EACH WAY, EXISTING, EXTERIOR, FORMED CONSTRUCTION JOINT, FINISH FLOOR ELEVATION OF STRUCTURE, FLOOR DRAIN, FIELD VERIFY, FLOOR VERIFICATION, FAR SIDE, FEET, FOOTING, GALVANIZED, GIRDER TRUSS, HOLLOW STEEL SHAPE, INSIDE DIAMETER, INSIDE FACE, INCH, KIP (1000 POUNDS), POUND, LIVE LOAD.

STD. 90° HOOK LENGTH

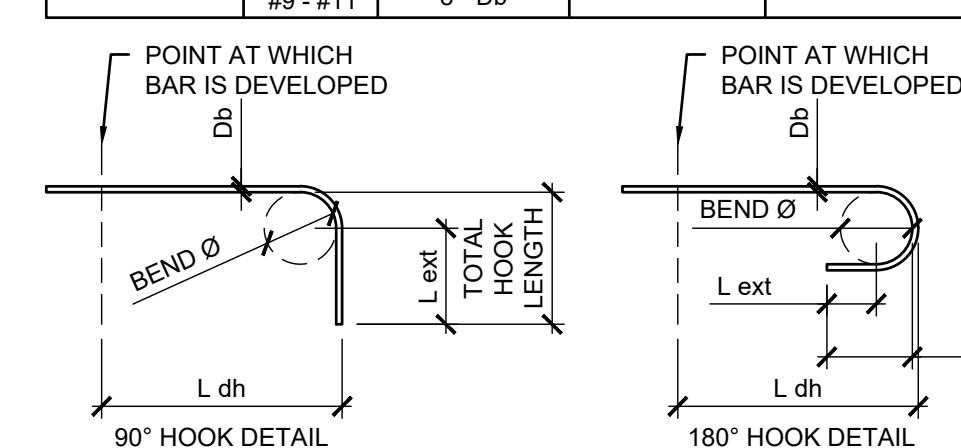
Table with columns: BAR SIZE (#), TOTAL HOOK LENGTH (IN.). Rows include 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14.

STD. 180° HOOK LENGTH

Table with columns: BAR SIZE (#), TOTAL HOOK LENGTH (IN.). Rows include 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

STD. HOOK GEOMETRY

Table with columns: TYPE OF STANDARD HOOK, BAR SIZE (#), MINIMUM INSIDE BEND DIAMETER, STRAIGHT EXTENSION (IN.), TYPE OF STANDARD HOOK.



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MCKEE and ASSOCIATES ARCHITECTS, P.C. 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-8933



SHEET TITLE : GENERAL NOTES AND PROJECT DATA

MCKEE JOB # : 24-169

DRAWN BY : TNS

DATE : 9.18.2024

REVISED DATE :

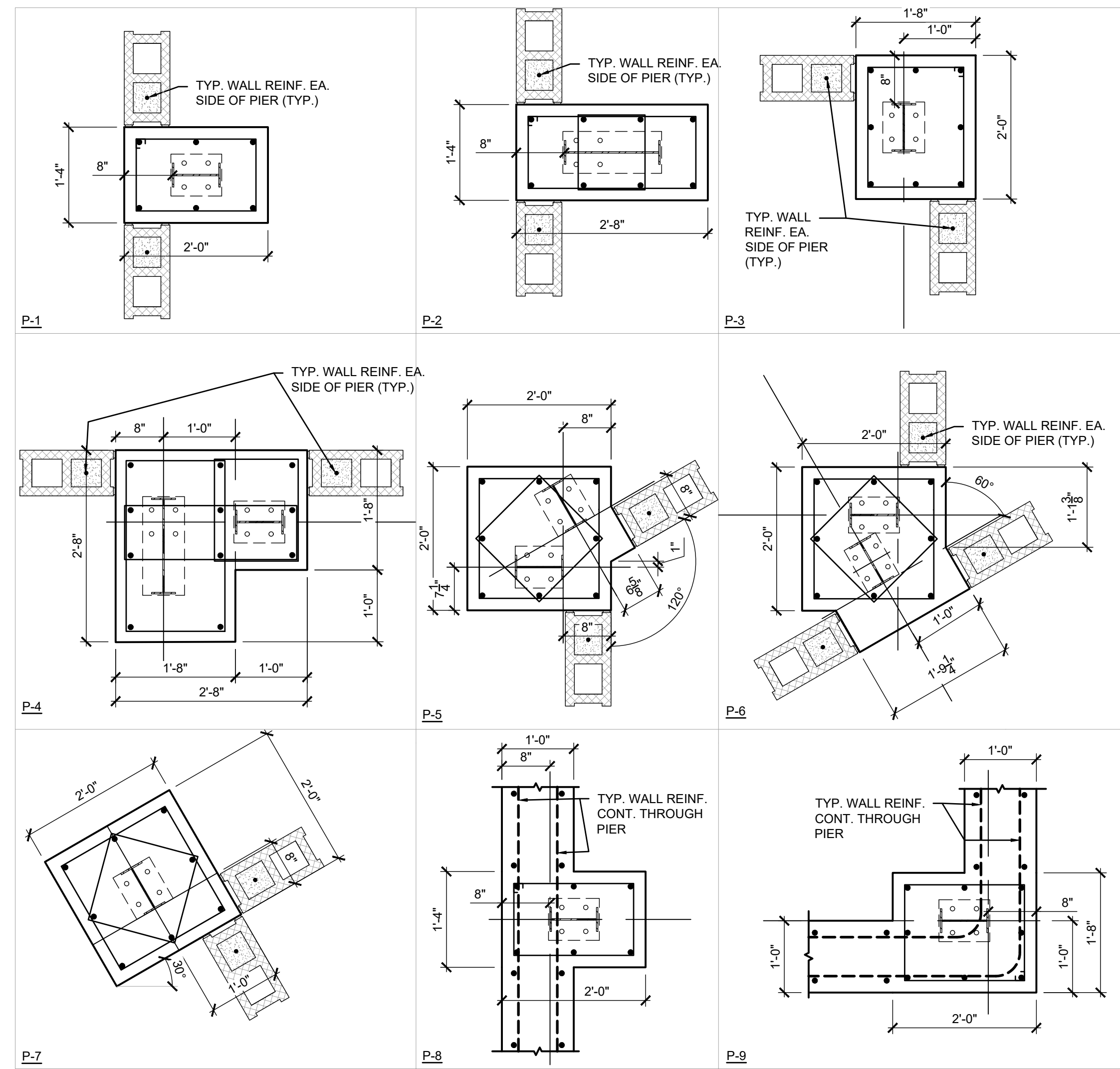
REVISED DATE :

REVISED DATE :

SHEET NO. : S0.1



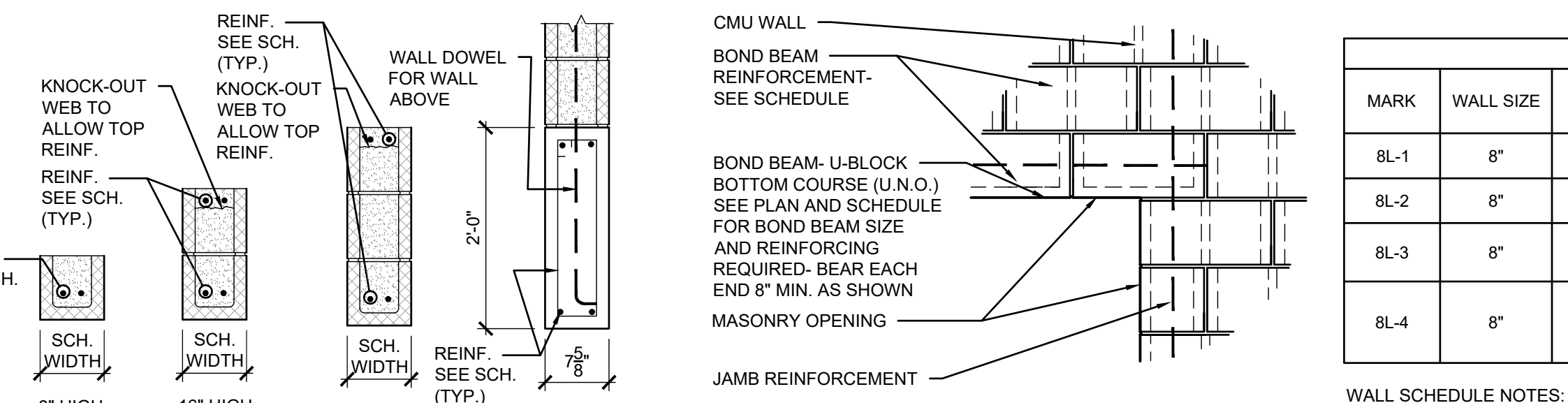
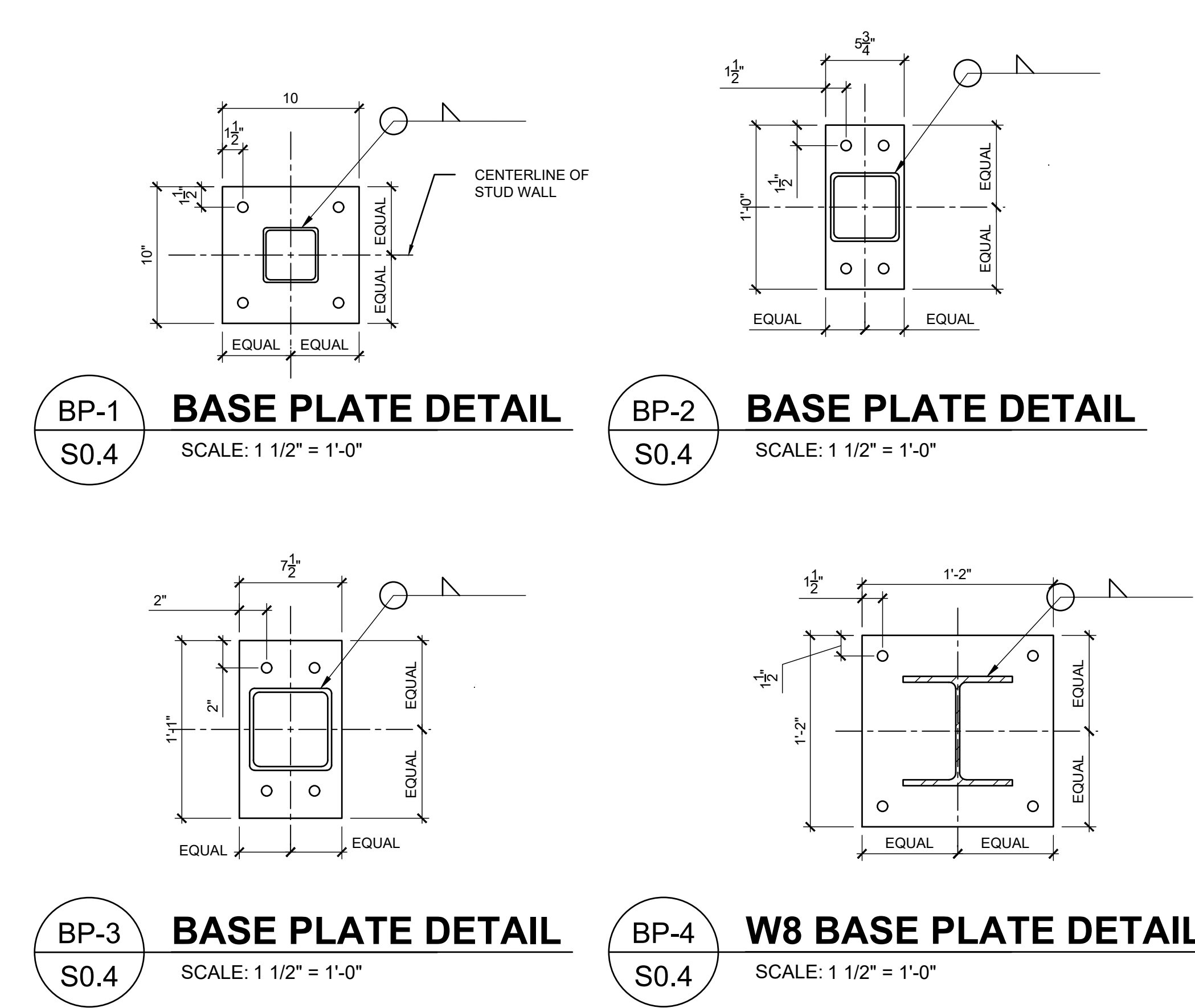




PEMB PIER SCHEDULE				
MARK	"D" - WIDTH	"D" - DEPTH	VERT. REINF.	TIES
P-1	1'-4"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-2	1'-4"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-3	1'-8"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-4	2'-8"	2'-0"	11-#5	#3-1 @ 2'-2@6", R @ 12"
P-5	2'-0"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-6	2'-0"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-7	2'-0"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-8	1'-4"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"
P-9	1'-8"	2'-0"	6-#5	#3-1 @ 2'-2@6", R @ 12"

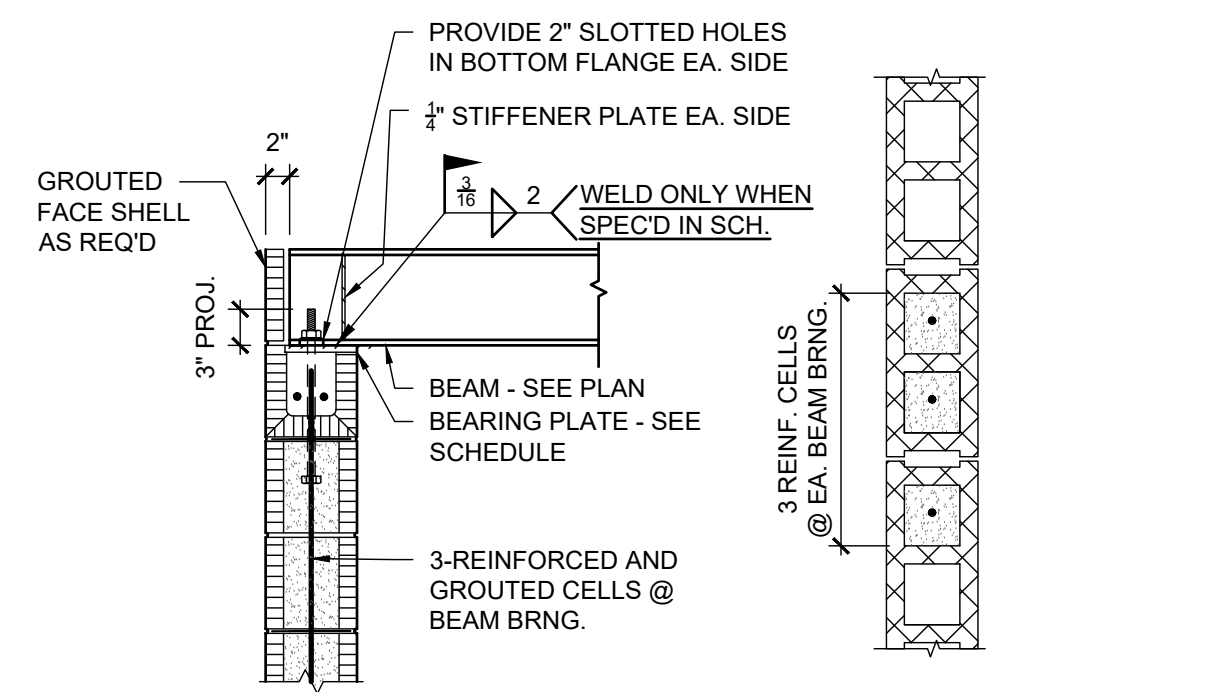
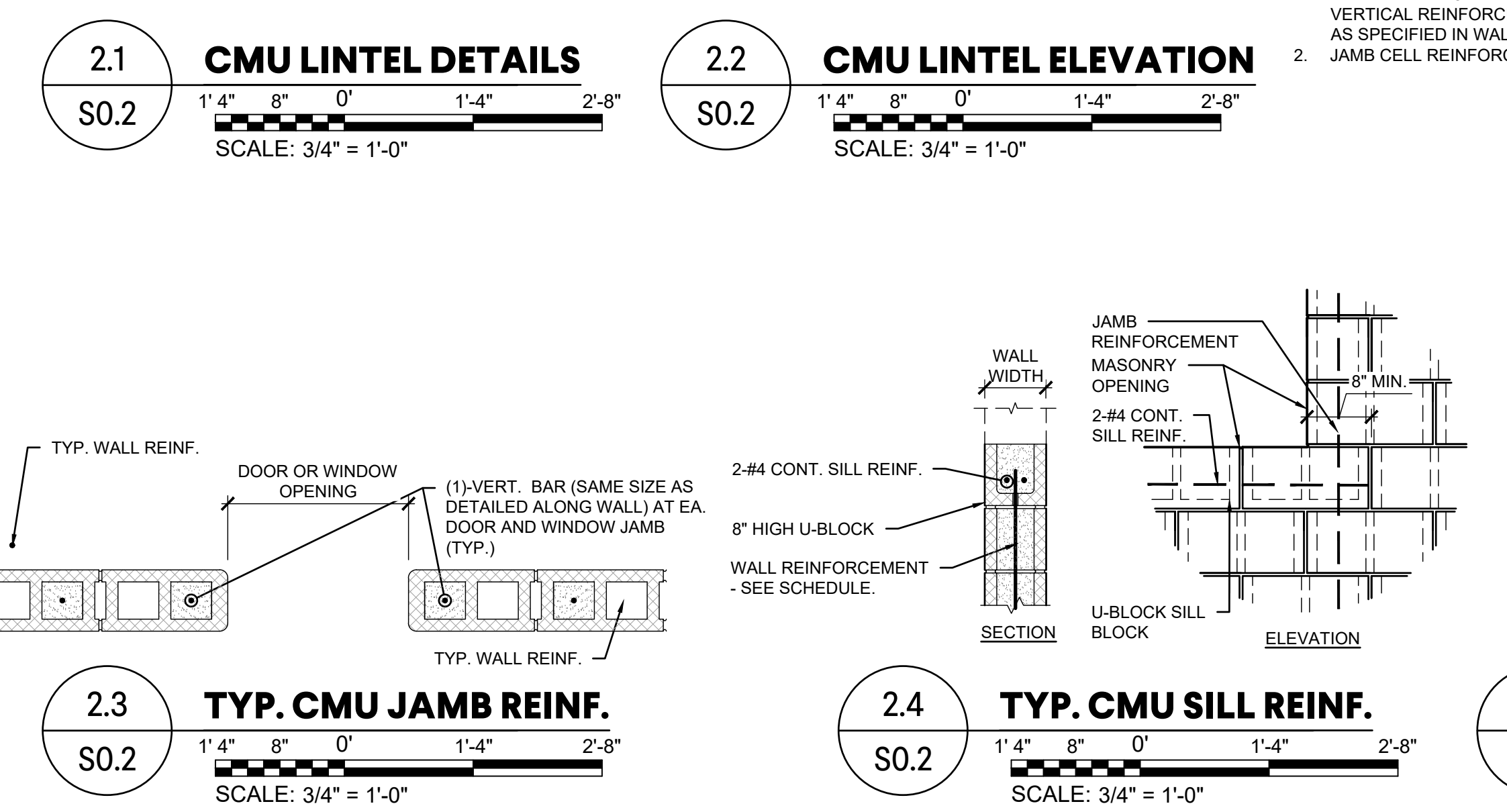
**PEMB PIER SCHEDULE NOTES:**  
 1. ANCHOR LAYOUT MUST BE IN ACCORDANCE WITH FINAL PEMB ANCHOR BOLT SHOP DRAWINGS, BASE PLATE SIZES, COLUMN SIZES, ANCHOR LAYOUT, AND PIER SIZES ARE ESTIMATES AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION.  
 2. ALL PIER SIZES AND REINFORCEMENT SHALL BE VERIFIED BY THE EOR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

BASE PLATE & ANCHOR BOLT SCHEDULE			
MARK	COLUMN SIZE	SIZE	ANCHOR RODS
BP-1	HSS 4x4	2"x10"x0'-10"	(4) - 2"Ø (8" EMBED)
BP-2	HSS 6x5 STUB COL.	2"x6"x1'-0"	(4) - 2"Ø BOLTS
BP-3	HSS 6x8 STUB COL.	1"x7"x1'-1"	(4) - 1"Ø BOLTS
BP-4	W8	1"x1'-2"x1'-2"	(4) - 1"Ø (8" EMBED)

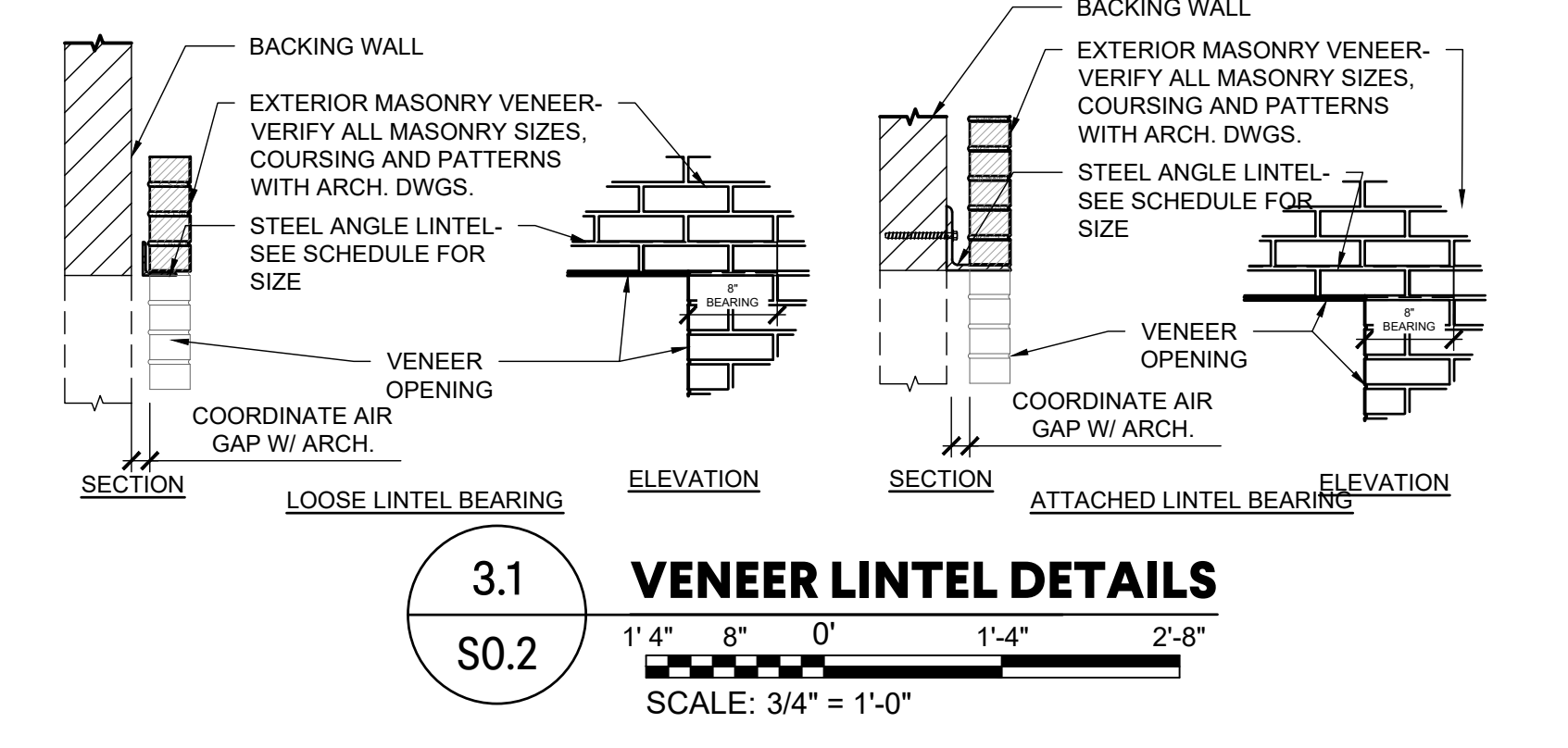
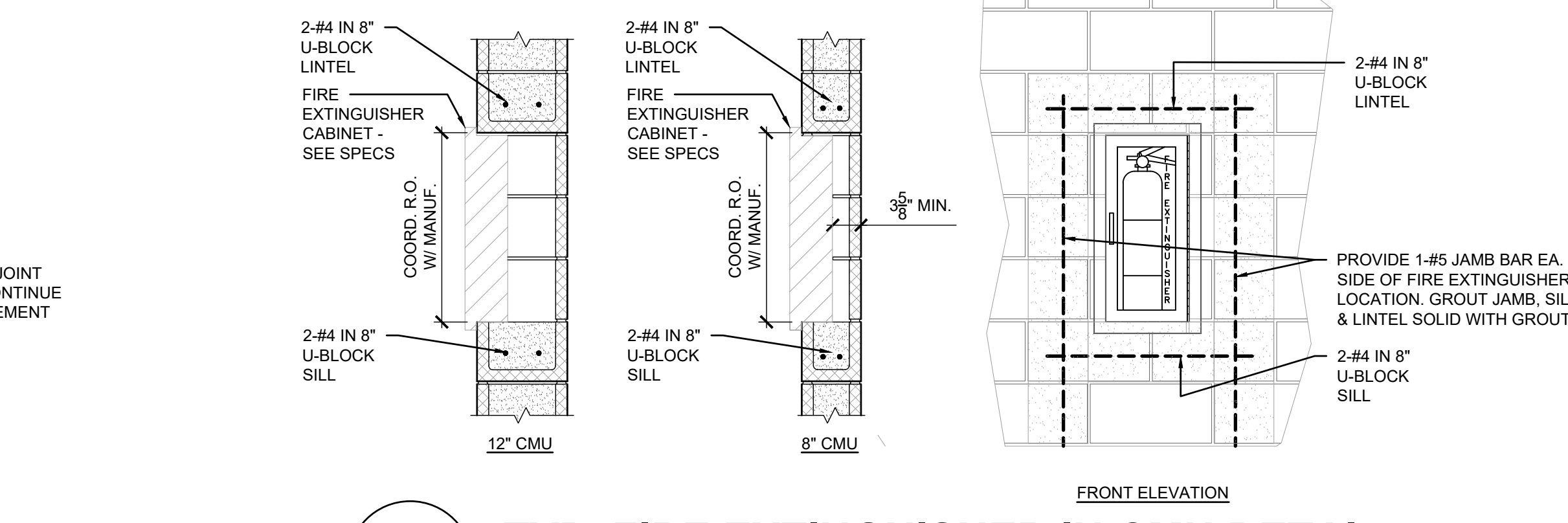
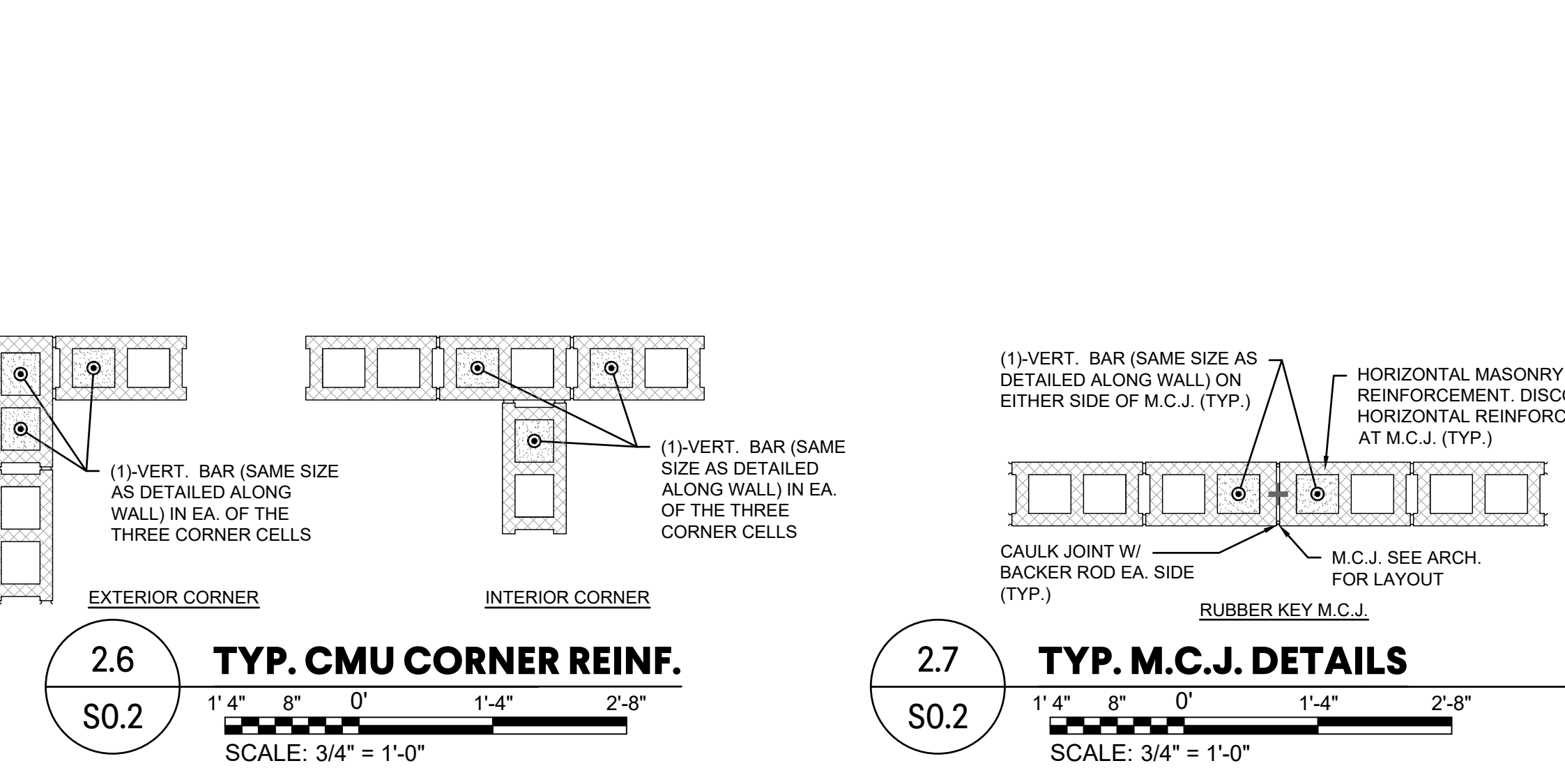
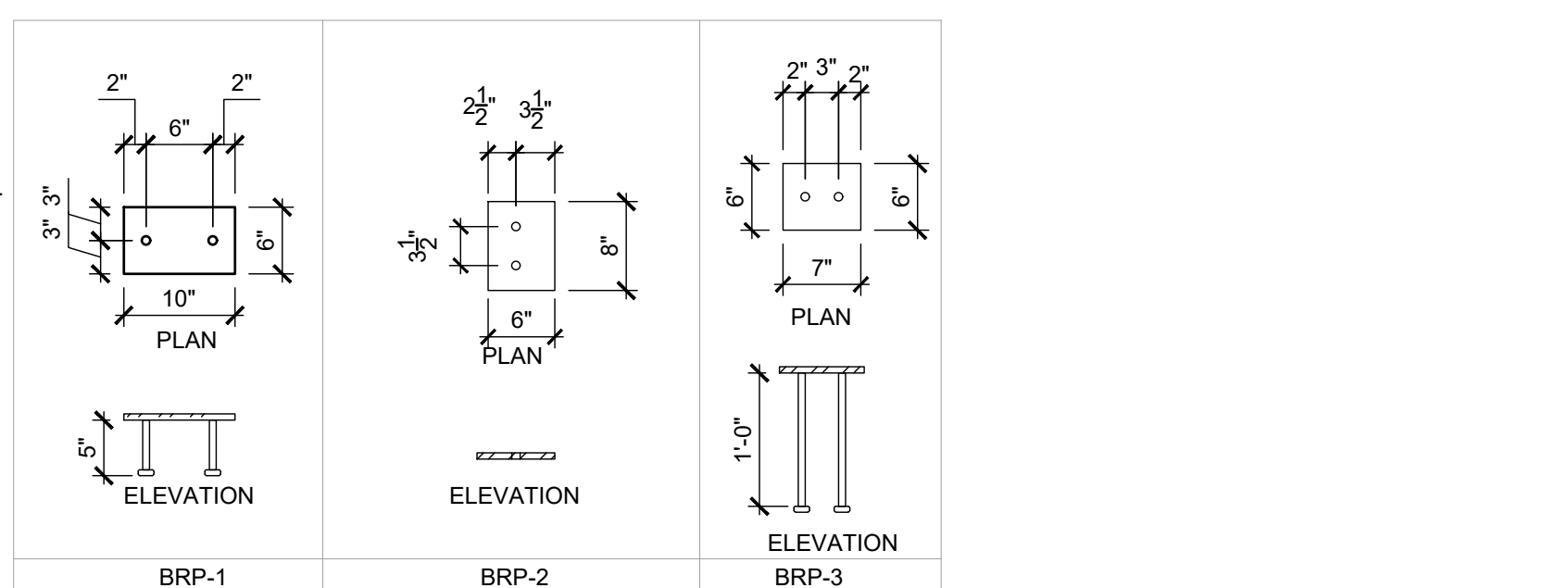
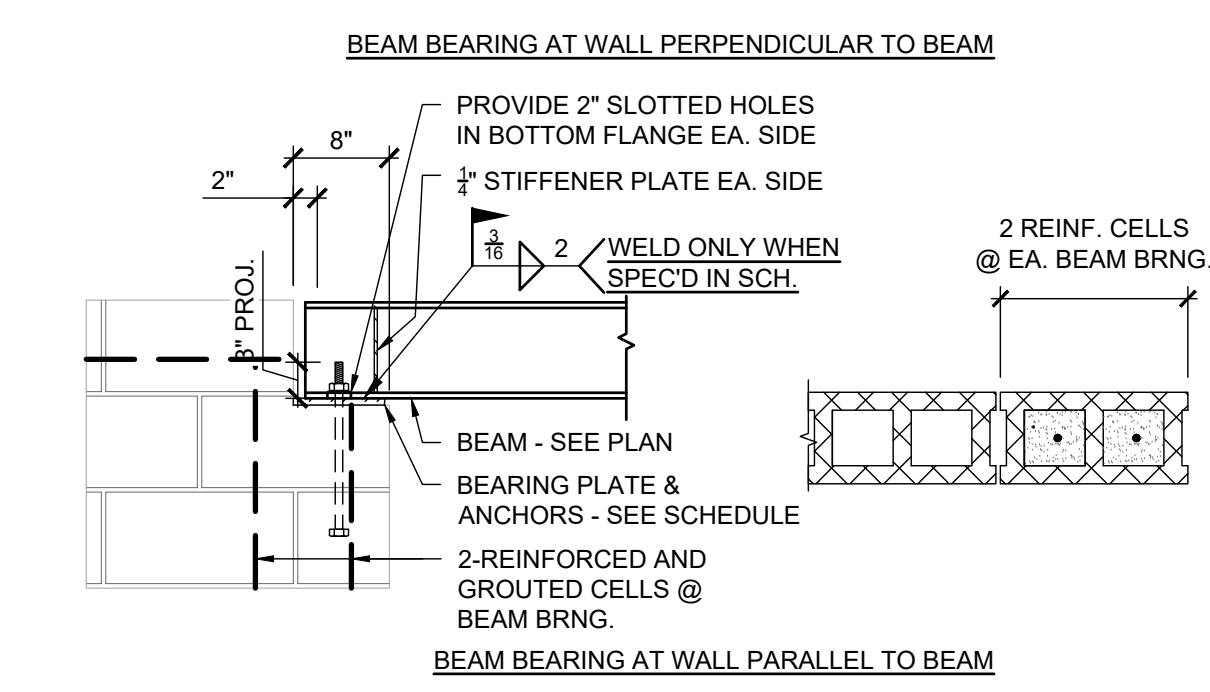


CMU LINTEL SCHEDULE					
MARK	WALL SIZE	MAX SPAN (X'-X")	SIZE	REINFORCEMENT	NOTES
8L-1	8"	4'-4"	8" HIGH U-BLOCK	2-#5 BOT.	
8L-2	8"	6'-4"	16" HIGH U-BLOCK	2-#5 TOP & BOT.	
8L-3	8"	10'-8"	24" HIGH U-BLOCK	2-#5 TOP & BOT.	
8L-4	8"	14'-0"	7-5/8"x24"	2-#6 TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.	HOOK BOTTOM BARS INTO JAMB. PROVIDE (2) REINFORCED JAMBS ON NORTH END OF BEAM.

**WALL SCHEDULE NOTES:**  
 1. BEAR LITELS 6" MINIMUM EACH END, UNLESS NOTED OTHERWISE, 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



BEAM BEARING BASE PLATE SCHEDULE					
MARK	BEAM SIZE	SIZE	ANCHOR RODS	ANCHOR NOTES	WELD NOTES
BRP-1	W10	2"x8"x0'-10"	(2) 2"x4"x5" HEADED STUDS	EMBED INTO BOND BEAM	WELD AS SHOWN ON DETAILS
BRP-2	W8 / W10 / W16 / W18	2"x8"x0'-8"	(2)-3/4"x1" ANCHOR RODS W/ 2" PROJECTIONS	HAND TIGHTEN NUT AND DAMAGE THREADS	DO NOT WELD
BRP-3	HSS8x8	2"x7"x0'-6"	(2) 2"x1"-Ø HEADED STUDS	EMBED INTO BOND MASONRY	WELD 2"x6" EA. SIDE



BRICK VENEER LINTEL SCHEDULE (BL-X)				
MARK	WALL TYPE	MAX SPAN (X'-X")	SIZE	NOTES
BL-1	CMU	3'-4"	L4x4x2	
BL-2	CMU	6'-4"	L6x6x3	
BL-3	CMU	10'-0"	L6x6x3/8	
BL-4	CMU	>10'-0"	L6x6x6 W/ 2"Øx6" CONCRETE SCREW ANCHOR @ 16" O.C.	ATTACH TO BACKING WALL

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

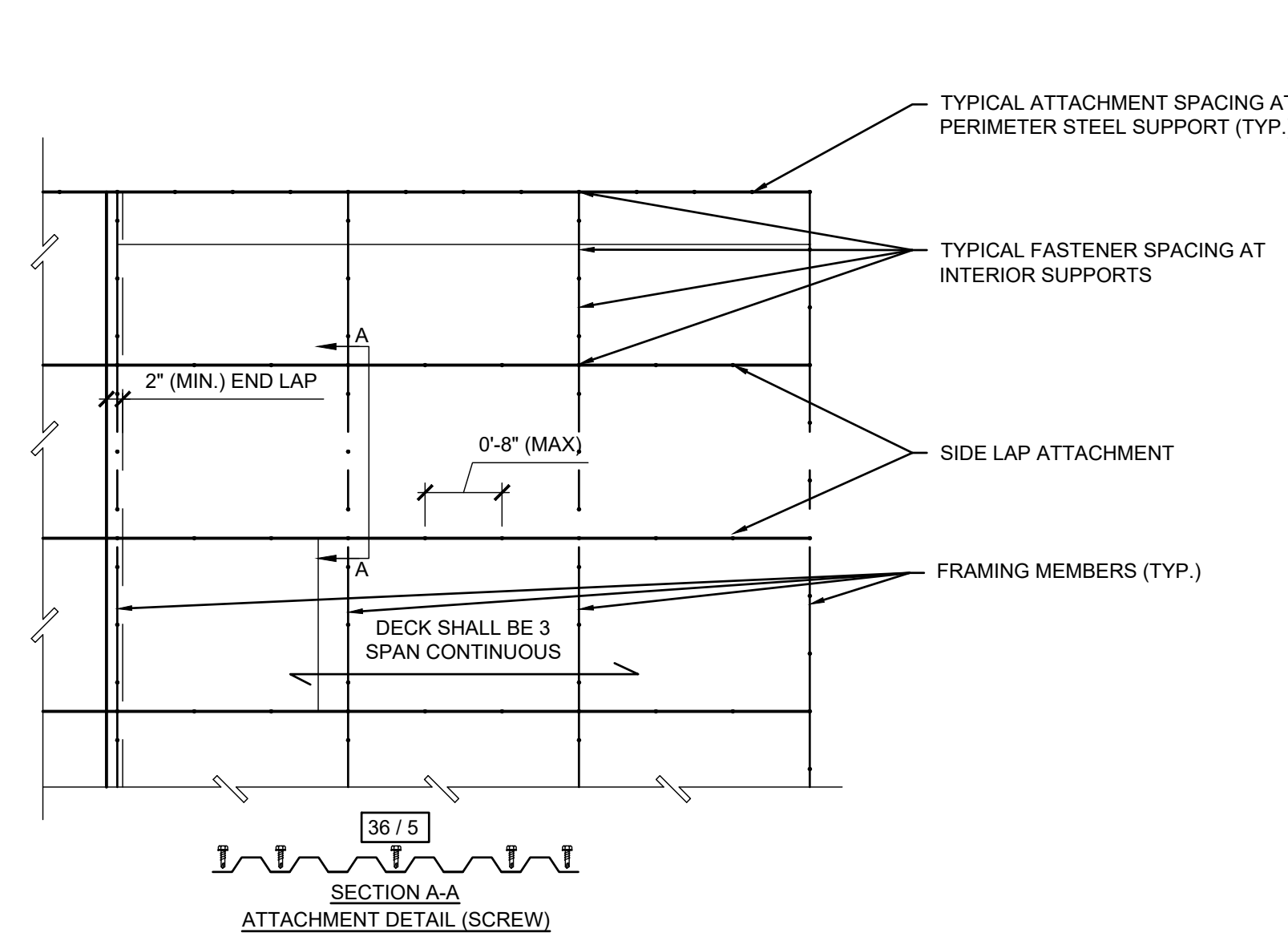
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**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : GENERAL NOTES AND PROJECT DATA  
 MCKEE JOB # : 24-169  
 DRAWN BY : TNS  
 DATE : 9.18.2024  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **S0.2**

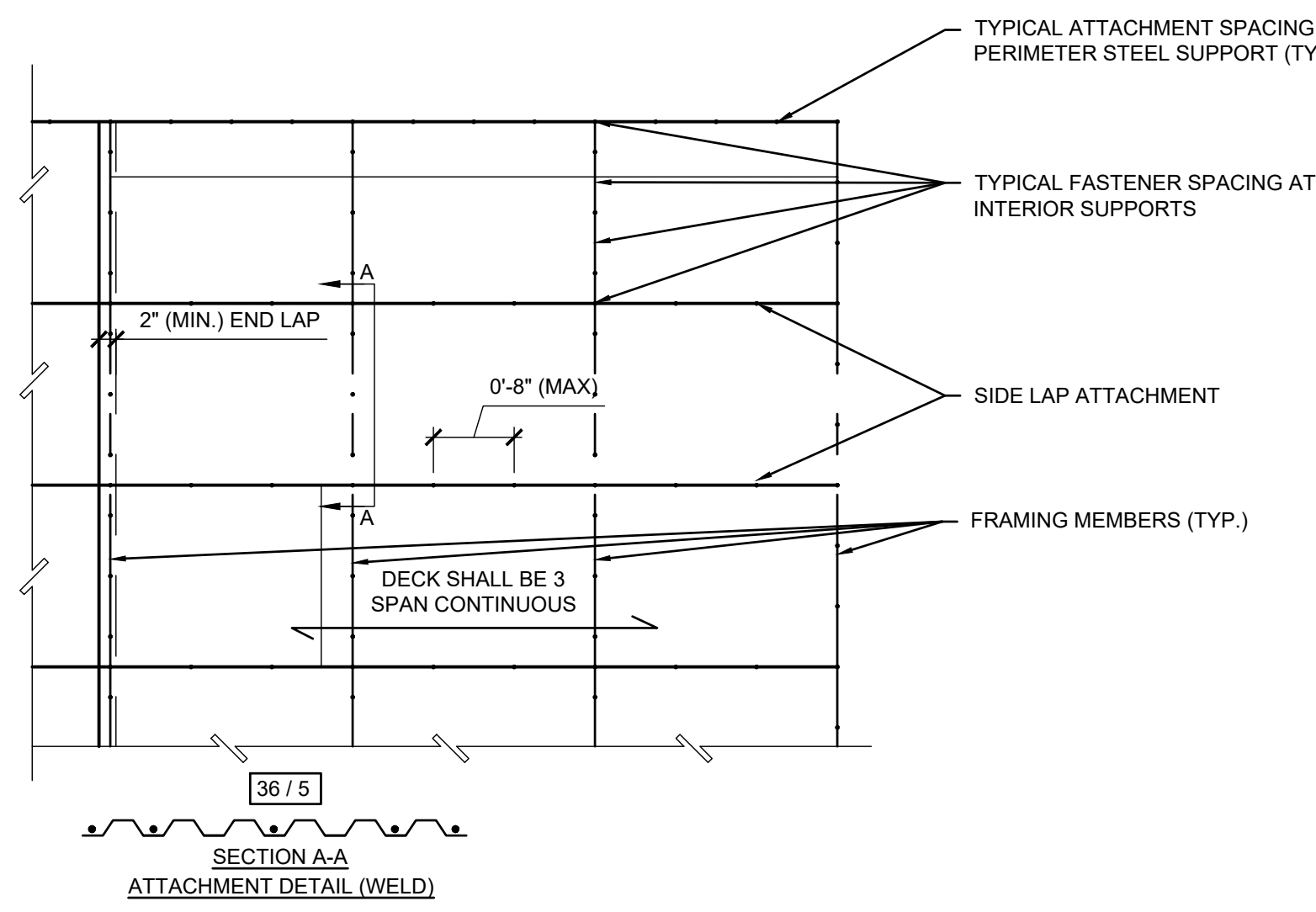
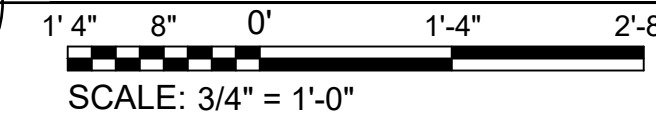






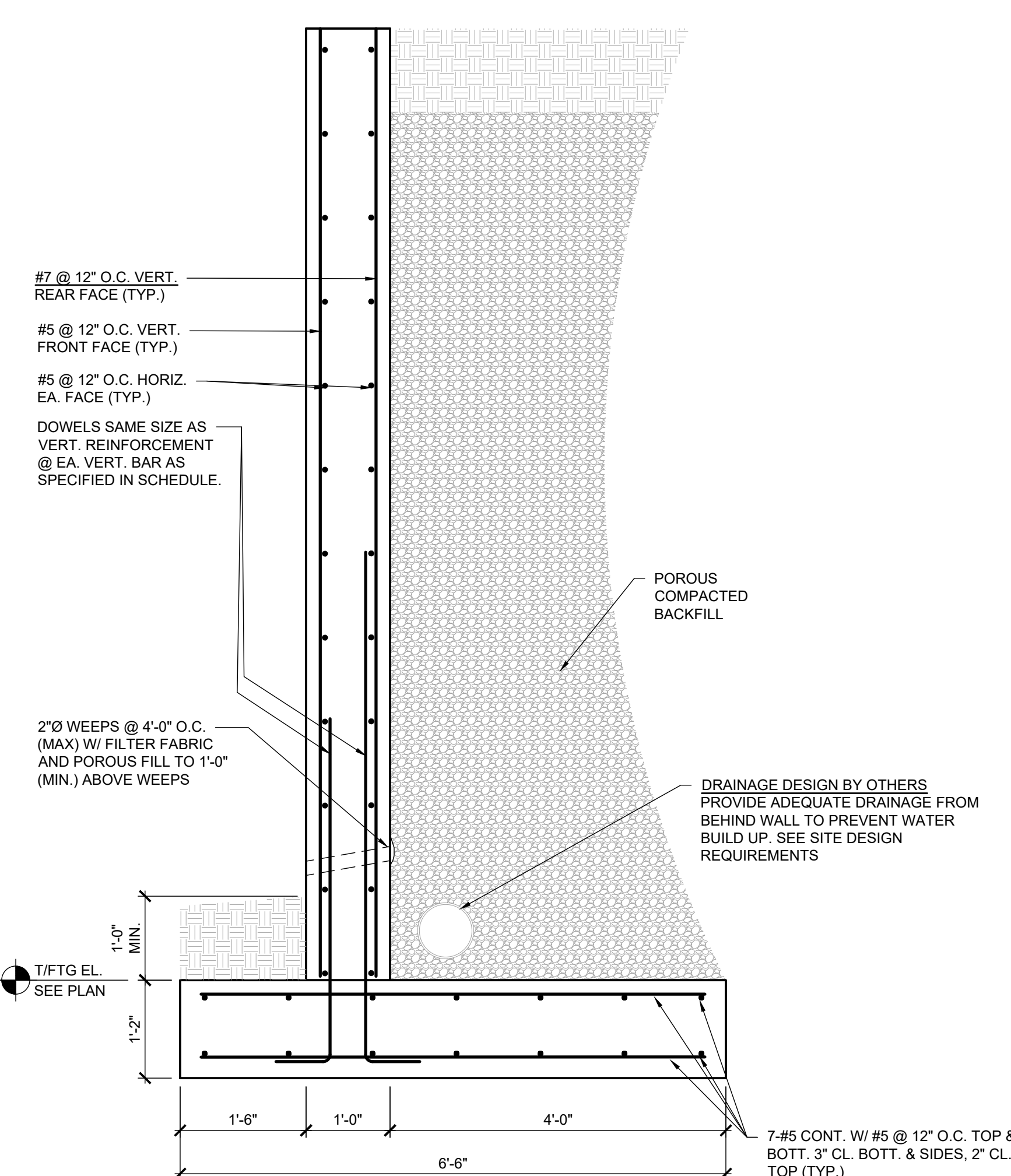
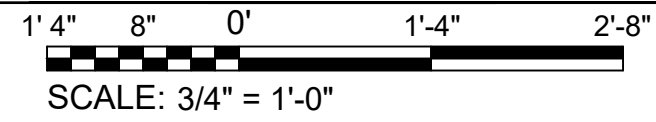
- SCREW ATTACHMENT NOTES:**
- ALL INTERIOR & PERIMETER ATTACHMENT SHALL BE MINIMUM #12 TEK SCREWS @ SPACING SHOWN IN DETAILS
  - ALL SIDE LAP ATTACHMENTS SHALL BE #10 TEK SCREWS @ SPACING SHOWN IN DETAILS

**6.8 TYP. ROOF DECK ATTACHMENT**  
S0.3

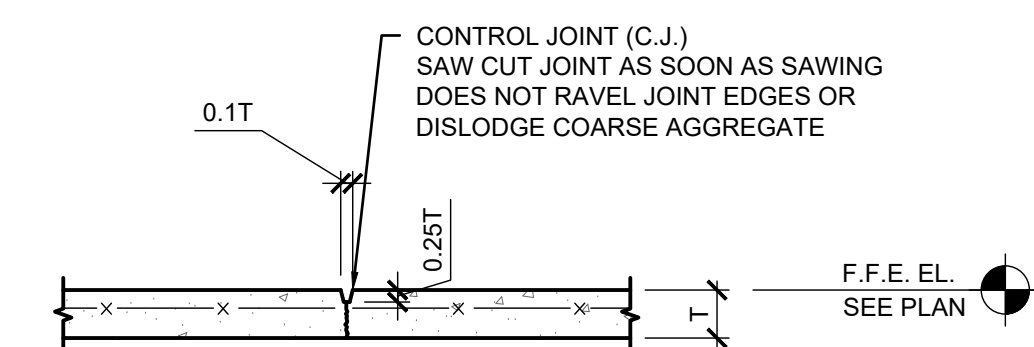


- WELD ATTACHMENT NOTES:**
- ALL WELDS SHALL BE MINIMUM  $\frac{1}{8}$ " DIAMETER PUDDLE WELDS.
  - FOR DECKS THINNER THAN 22 GAUGE, 14 GAUGE WELDING WASHERS ARE REQUIRED

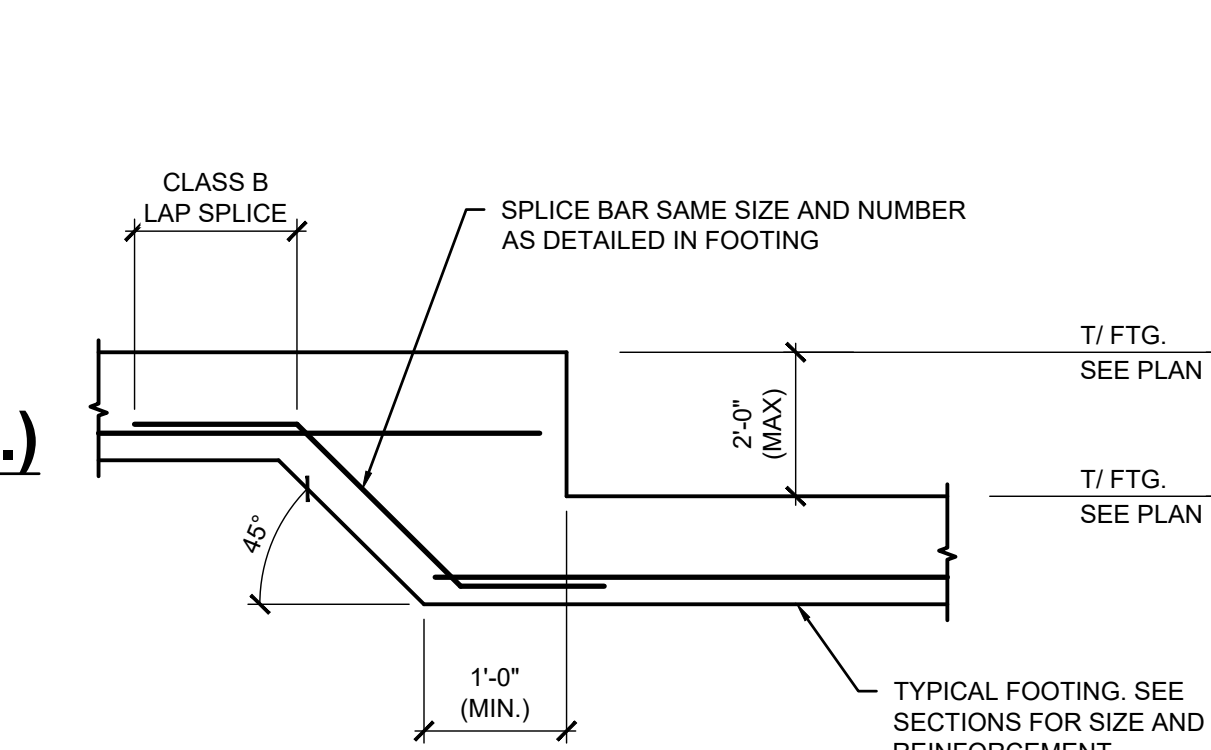
**6.9 TYP. FLOOR DECK ATTACHMENT**  
S0.3



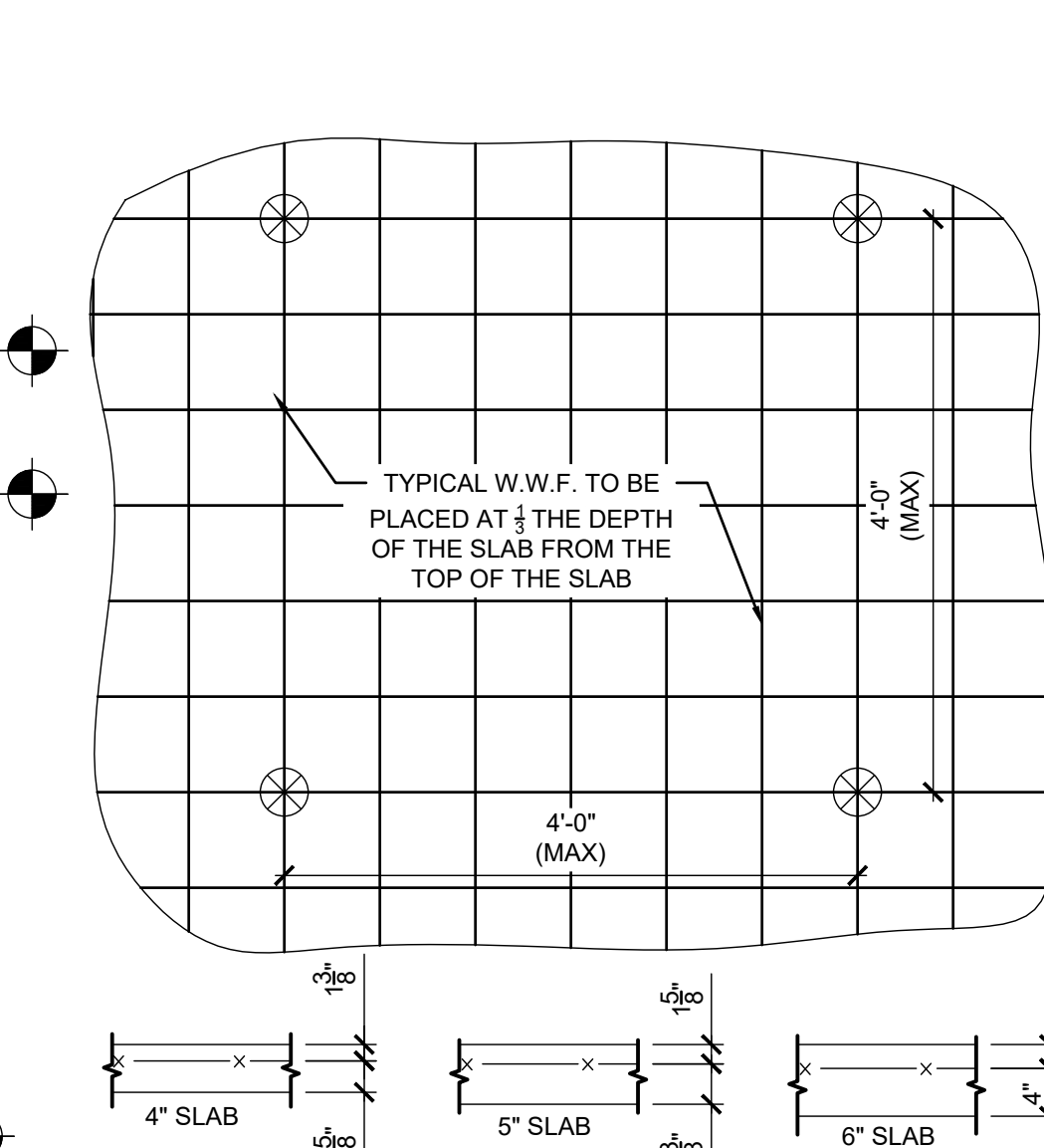
**2 SECTION**  
S0.3



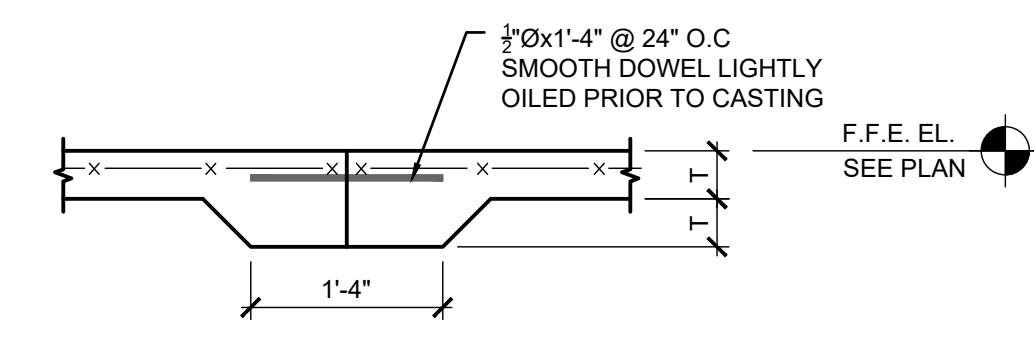
**1.1 CONCRETE CONTROL JOINT (C.J.)**  
S0.3



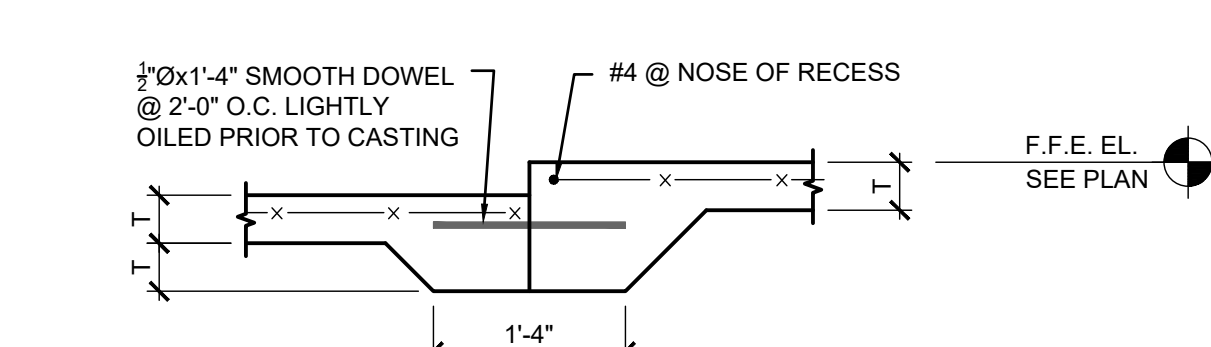
**1.2 FOOTING STEP**  
S0.3



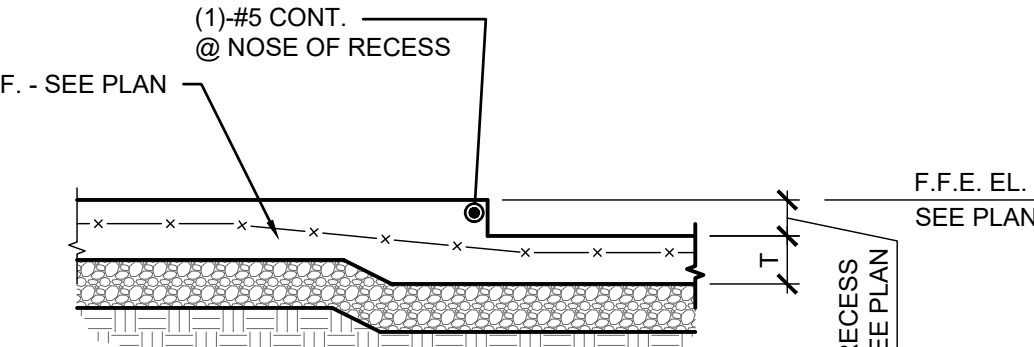
**1.5 W.W.F. PLACEMENT**  
S0.3



**1.3 CONSTRUCTION JOINT**  
S0.3



**1.4 STEPPED CONSTRUCTION JOINT**  
S0.3



**1.6 SLAB RECESS**  
S0.3



Components and cladding pressures - Roof (Figure 30.3.2B)

Component	Zone	Length (ft)	Width (ft)	Eft. area (ft <sup>2</sup> )	+GC <sub>p</sub>	-GC <sub>p</sub>	Pres (+ve) (psf)	Pres (-ve) (psf)
<=2 sf	1	-	2.0	0.70	-2.00	18.3	-45.4	
20 sf	1	-	20.0	0.48	-2.00	13.4*	-45.4	
50 sf	1	-	50.0	0.37	-1.15	11.5*	-27.6	
>100 sf	1	-	100.1	0.30	-0.50	10.0*	-14.2*	
<=2 sf	2e	-	2.0	0.70	-2.00	18.3	-45.4	
20 sf	2e	-	20.0	0.48	-2.00	13.4*	-45.4	
50 sf	2e	-	50.0	0.37	-1.15	11.5*	-27.6	
>100 sf	2e	-	100.1	0.30	-0.50	10.0*	-14.2*	
<=2 sf	2n	-	2.0	0.70	-3.00	18.3	-68.3	
10 sf	2n	-	10.0	0.54	-3.00	14.9*	-68.3	
>100 sf	2n	-	100.0	0.30	-1.57	10.0*	-38.4	
>250 sf	2n	-	250.1	0.30	-1.00	10.0*	-24.6	
<=2 sf	2r	-	2.0	0.70	-3.00	18.3	-68.3	
10 sf	2r	-	10.0	0.54	-3.00	14.9*	-68.3	
>100 sf	2r	-	100.0	0.30	-1.57	10.0*	-38.4	
>250 sf	2r	-	250.1	0.30	-1.00	10.0*	-24.6	
<=2 sf	3e	-	2.0	0.70	-3.00	18.3	-68.3	
100 sf	3e	-	10.0	0.54	-3.00	14.9*	-68.3	
>250 sf	3e	-	250.1	0.30	-1.57	10.0*	-38.4	
<=2 sf	3r	-	2.0	0.70	-3.60	18.3	-78.8	
10 sf	3r	-	10.0	0.54	-3.60	14.9*	-78.8	
50 sf	3r	-	50.0	0.37	-2.34	11.5*	-52.5	
>100 sf	3r	-	100.1	0.30	-1.80	10.0*	-41.3	

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

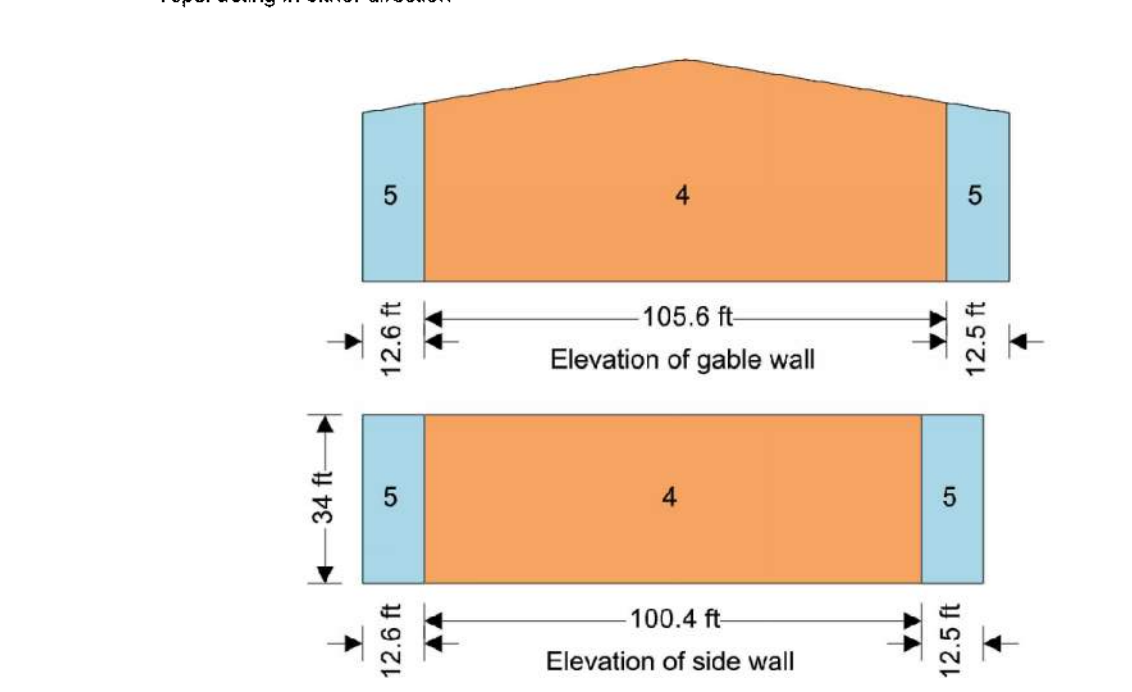
Components and cladding pressures - Roof (Figure 30.3.2B)

Component	Zone	Length (ft)	Width (ft)	Eft. area (ft <sup>2</sup> )	+GC <sub>p</sub>	-GC <sub>p</sub>	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	4	-	10.0	0.90	-0.99	22.5	-24.4	
50 sf	4	-	50.0	0.79	-0.88	20.2	-22.1	
>100 sf	4	-	100.1	0.63	-0.72	16.9	-18.8	
<=10 sf	5	-	10.0	0.90	-1.28	22.5	-30.0	
50 sf	5	-	50.0	0.79	-1.04	20.2	-28.4	
>100 sf	5	-	100.1	0.63	-0.72	16.9	-18.8	

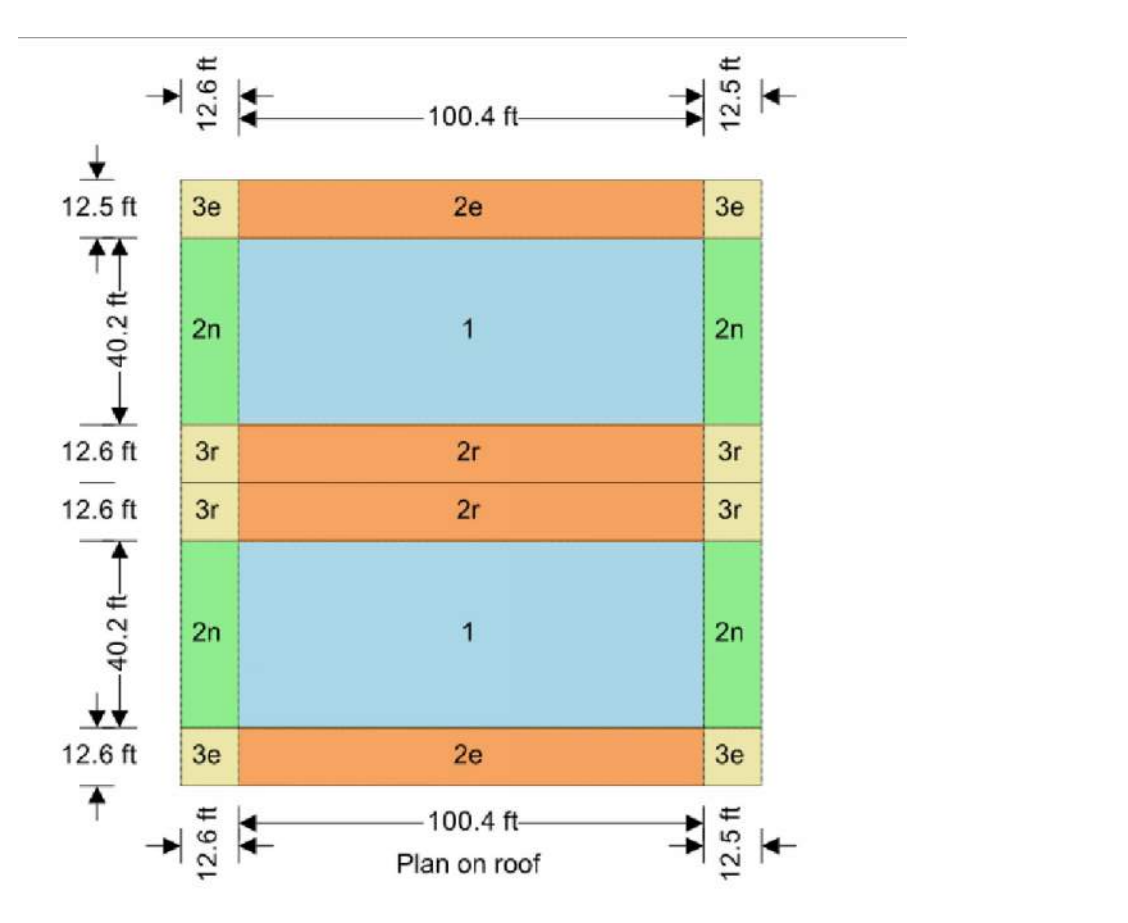
Components and cladding pressures - Roof (Figure 30.3.2B)

Component	Zone	Length (ft)	Width (ft)	Eft. area (ft <sup>2</sup> )	+GC <sub>p</sub>	-GC <sub>p</sub>	Pres (+ve) (psf)	Pres (-ve) (psf)
<=2 sf	1	-	2.0	0.70	-2.00	23.3	-57.7	
20 sf	1	-	20.0	0.46	-2.00	17.1	-57.7	
50 sf	1	-	50.0	0.37	-1.15	14.6*	-35.1	
>100 sf	1	-	100.1	0.30	-0.50	12.7*	-18.0	
<=2 sf	2e	-	2.0	0.70	-2.00	23.3	-57.7	
20 sf	2e	-	20.0	0.46	-2.00	17.1	-57.7	
50 sf	2e	-	50.0	0.37	-1.15	14.6*	-35.1	
>100 sf	2e	-	100.1	0.30	-0.50	12.7*	-18.0	
<=2 sf	2n	-	2.0	0.70	-3.00	23.3	-84.1	
10 sf	2n	-	10.0	0.54	-3.00	18.9	-84.1	
>100 sf	2n	-	100.0	0.30	-1.57	12.7*	-46.3	
>250 sf	2n	-	250.1	0.30	-1.00	12.7*	-31.2	
<=2 sf	2r	-	2.0	0.70	-3.00	23.3	-84.1	
10 sf	2r	-	10.0	0.54	-3.00	18.9	-84.1	
>100 sf	2r	-	100.0	0.30	-1.57	12.7*	-46.3	
>250 sf	2r	-	250.1	0.30	-1.00	12.7*	-31.2	
<=10 sf	3e	-	2.0	0.70	-3.00	23.3	-84.1	
100 sf	3e	-	10.0	0.54	-3.00	18.9	-84.1	
>100 sf	3e	-	100.0	0.30	-1.57	12.7*	-46.3	
>250 sf	3e	-	250.1	0.30	-1.00	12.7*	-31.2	
<=2 sf	3r	-	2.0	0.70	-3.60	23.3	-100.0	
10 sf	3r	-	10.0	0.54	-3.60	18.9	-100.0	
50 sf	3r	-	50.0	0.37	-2.34	14.6*	-66.7	
>100 sf	3r	-	100.1	0.30	-1.80	12.7*	-52.4	

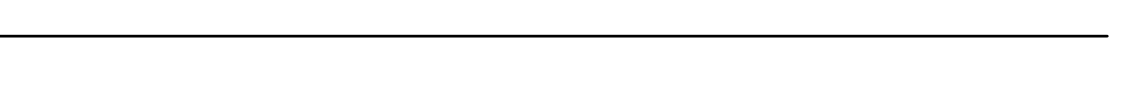
# The final net design wind pressure, including all permitted reductions, used in the design shall not be less than 16psf acting in either direction



**4.1 MAIN PEMB GABLE C&C**  
S0.3



**4.1 ENTRANCE GABLE C&C**  
S0.3

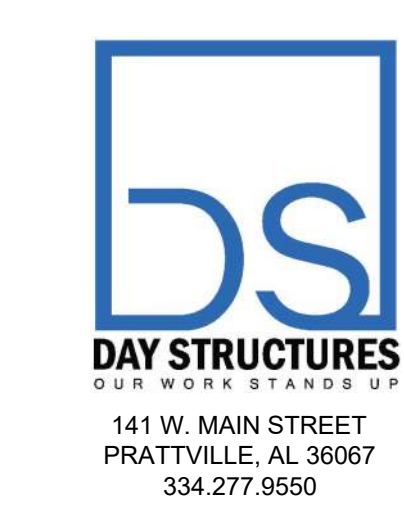


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631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-8933



SHEET TITLE: TYPICAL DETAILS AND WIND PRESSURE DIAGRAMS AND TABLES  
MCKEE JOB #: 24-169  
DRAWN BY: TNS  
DATE: 9.18.2024  
REVISED DATE:  
REVISED DATE:  
REVISED DATE:



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	VERIFY WITH AUTHORITY HAVING JURISDICTION

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	Y	
1705.13.1.2	STRUCTURAL STEEL ELEMENTS FOR THE SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	Y	

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		X	
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	
B. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM $\frac{1}{8}$ "		X	AWS D11.4, ACI 318: 26.6.4
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		X	
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4, 17.8.2
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		X	
A. APPLICATION OF PRESTRESSING FORCES	X		ACI 318: 26.10
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 DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD		X	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		X	
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS 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		
CONGEALED CONNECTIONS		X	

SCHEDULE OF SPECIAL INSPECTIONS PER IBC					
IBC REFERENCE	MATERIAL / SYSTEMS / COMPONENTS / WORK	REQD (Y/N)	TYPE / EXTENT INSPECTION OR TEST REFERENCED STANDARD	PERIODIC / CONTINUOUS	ADDITIONAL REQUIREMENTS
<b>SPECIAL CASES</b>					
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	N		P	
<b>STEEL CONSTRUCTION</b>					
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		VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS
1705.3.4	COLD-FORMED TRUSSES SPANNING 60' OR GREATER	N		P	
<b>CONCRETE CONSTRUCTION</b>					
1705.3.1	WELDING OF REINFORCING BARS	Y	AWS D1.4 REQUIREMENTS		SEE SPEC
1705.3.2	MATERIAL TEST	Y	ACI 318 CH. 19 & 20 REQUIREMENTS		SEE SPEC
<b>MASONRY CONSTRUCTION</b>					
1705.4.1	GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV	Y	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
<b>WOOD CONSTRUCTION</b>					
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	
<b>SOILS</b>					
1705.6	SPECIAL INSPECTION AND TEST OF EXISTING SITE SOIL CONDITIONS	Y		P	
<b>FOUNDATIONS</b>					
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	
<b>FABRICATED ITEMS</b>					
1705.11	SPECIAL INSPECTION OF FABRICATED ITEMS IN ACCORDANCE WITH IBC 1704.2.5	Y		P	
<b>SPECIAL INSPECTIONS FOR WIND RESISTANCE</b>					
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	Y		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	
<b>SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE</b>					
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	
<b>TESTING FOR SEISMIC RESISTANCE</b>					
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

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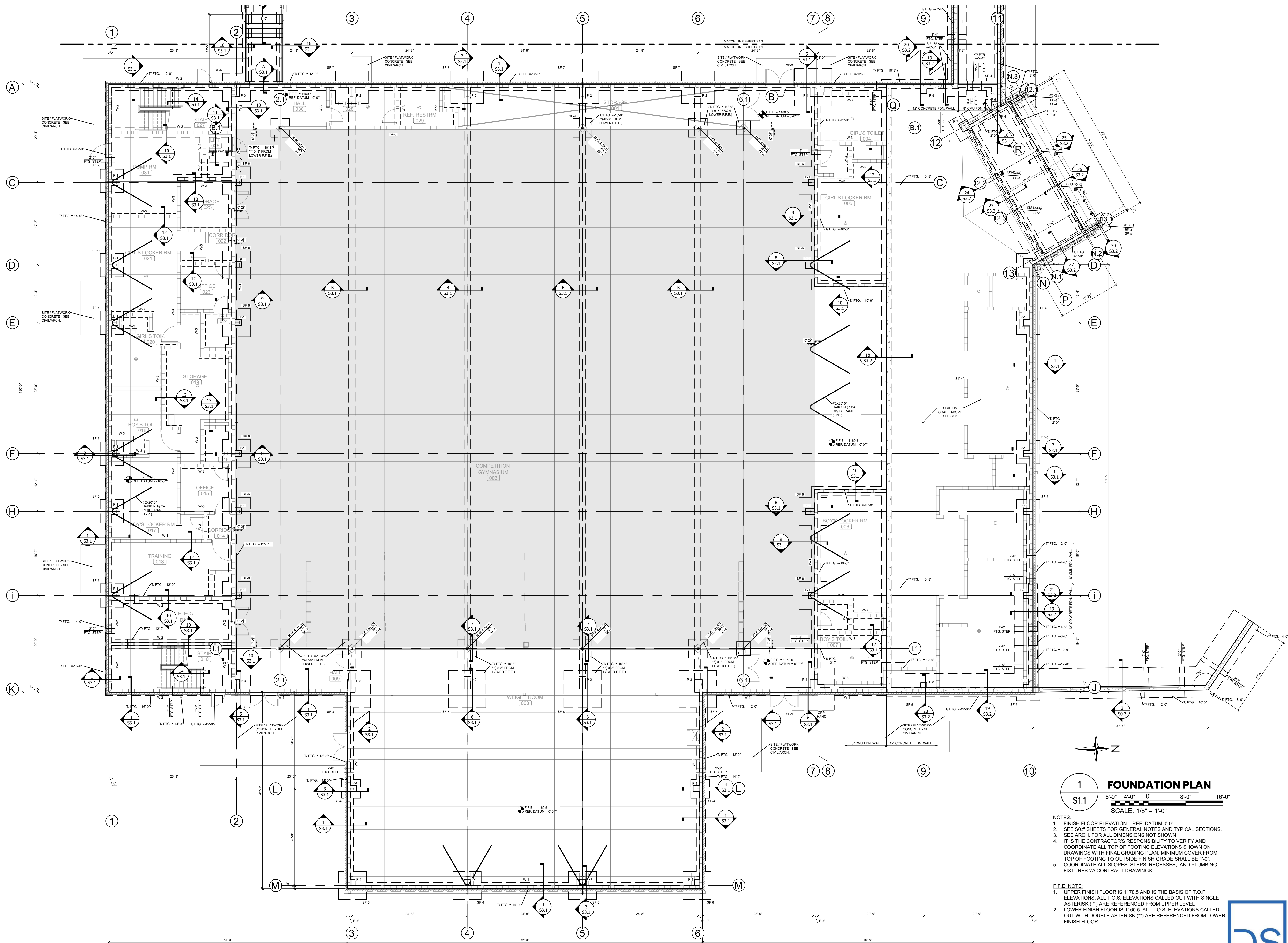


SHEET TITLE : SPECIAL INSPECTION SCHEDULE  
 MCKEE JOB # : 24-169  
 DRAWN BY : TNS  
 DATE : 9.18.2024  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :



SHEET NO. : **S0.4**





**1 FOUNDATION PLAN**  
 S1.1  
 SCALE: 1/8" = 1'-0"

- NOTES:**
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
  2. SEE S0# SHEETS FOR GENERAL NOTES AND TYPICAL SECTIONS.
  3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
  4. 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".
  5. COORDINATE ALL SLOPES, STEPS, RECESSES, AND PLUMBING FIXTURES W/ CONTRACT DRAWINGS.

- F.F.E. NOTE:**
1. UPPER FINISH FLOOR IS 1170.5 AND IS THE BASIS OF T.O.F. ELEVATIONS. ALL T.O.S. ELEVATIONS CALLED OUT WITH SINGLE ASTERISK (\*) ARE REFERENCED FROM UPPER LEVEL.
  2. LOWER FINISH FLOOR IS 1160.5. ALL T.O.S. ELEVATIONS CALLED OUT WITH DOUBLE ASTERISK (\*\*) ARE REFERENCED FROM LOWER FINISH FLOOR.



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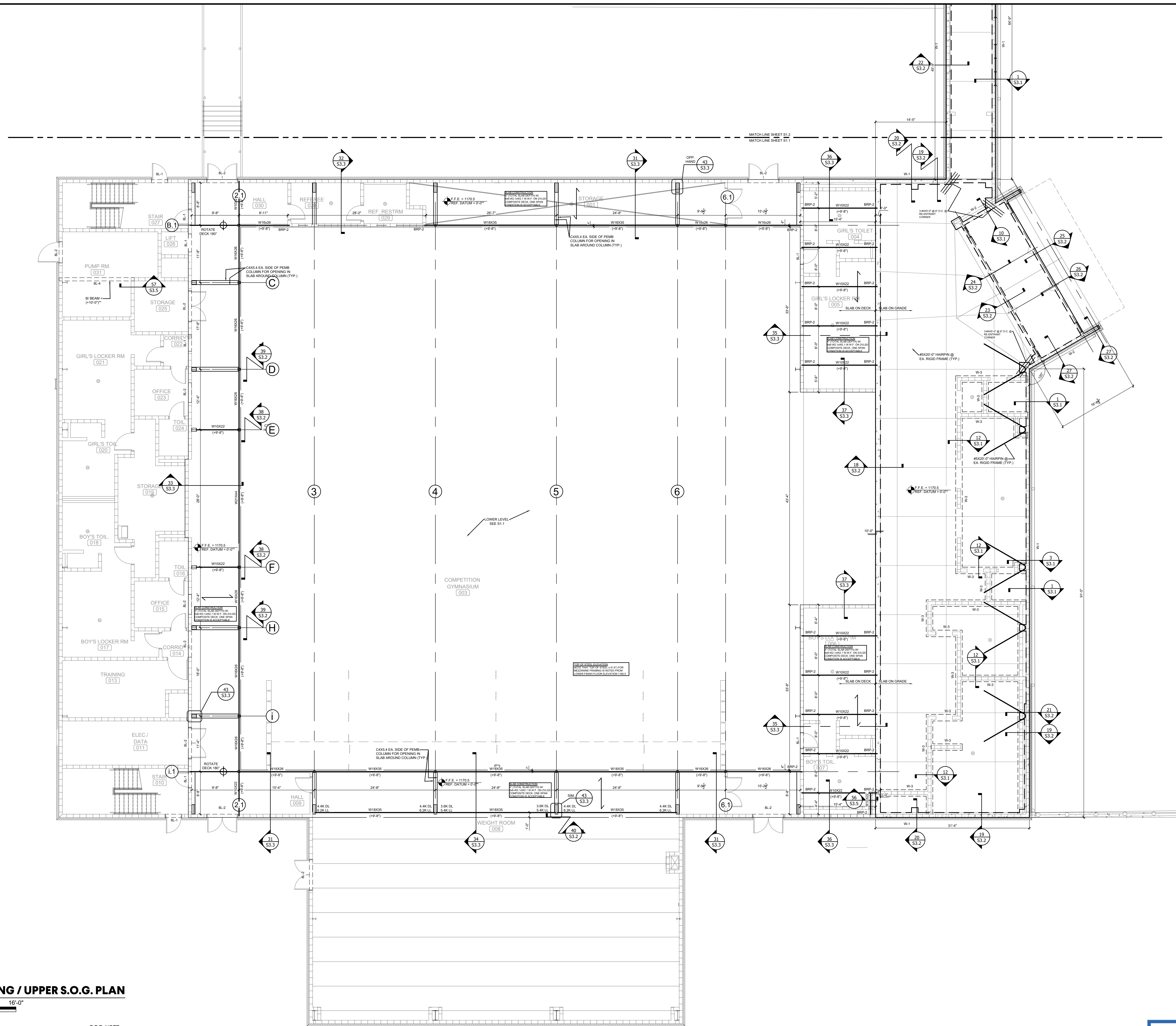
SHEET TITLE : GYM FOUNDATION PLAN  
 MCKEE JOB # : 24-169  
 DRAWN BY : TNS  
 DATE : 9.18.2024  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **S1.1**



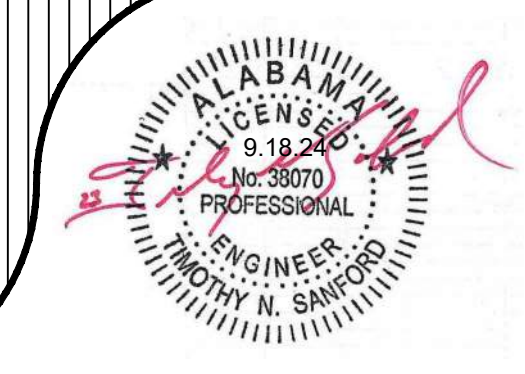






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**1**  
**S1.3**  
**MEZZANINE FRAMING / UPPER S.O.G. PLAN**  
 8'-0" 4'-0" 0" 8'-0" 16'-0"  
 SCALE: 1/8" = 1'-0"

- NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
  2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
  3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
  4. [X X KIP] INDICATES BEAM REACTION TO METAL BUILDING FRAME.

- F.F.E. NOTE:
1. UPPER FINISH FLOOR IS 1170.5 AND IS THE BASIS OF T.O.F. ELEVATIONS. ALL T.O.S. ELEVATIONS CALLED OUT WITH SINGLE ASTERISK (\*) ARE REFERENCED FROM UPPER LEVEL.
  2. LOWER FINISH FLOOR IS 1160.5. ALL T.O.S. ELEVATIONS CALLED OUT WITH DOUBLE ASTERISK (\*\*) ARE REFERENCED FROM LOWER FINISH FLOOR.

SHEET TITLE : MEZZANINE FRAMING AND S.O.G. PLAN  
 MCKEE JOB # : 24-169  
 DRAWN BY : TNS  
 DATE : 9.18.2024  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

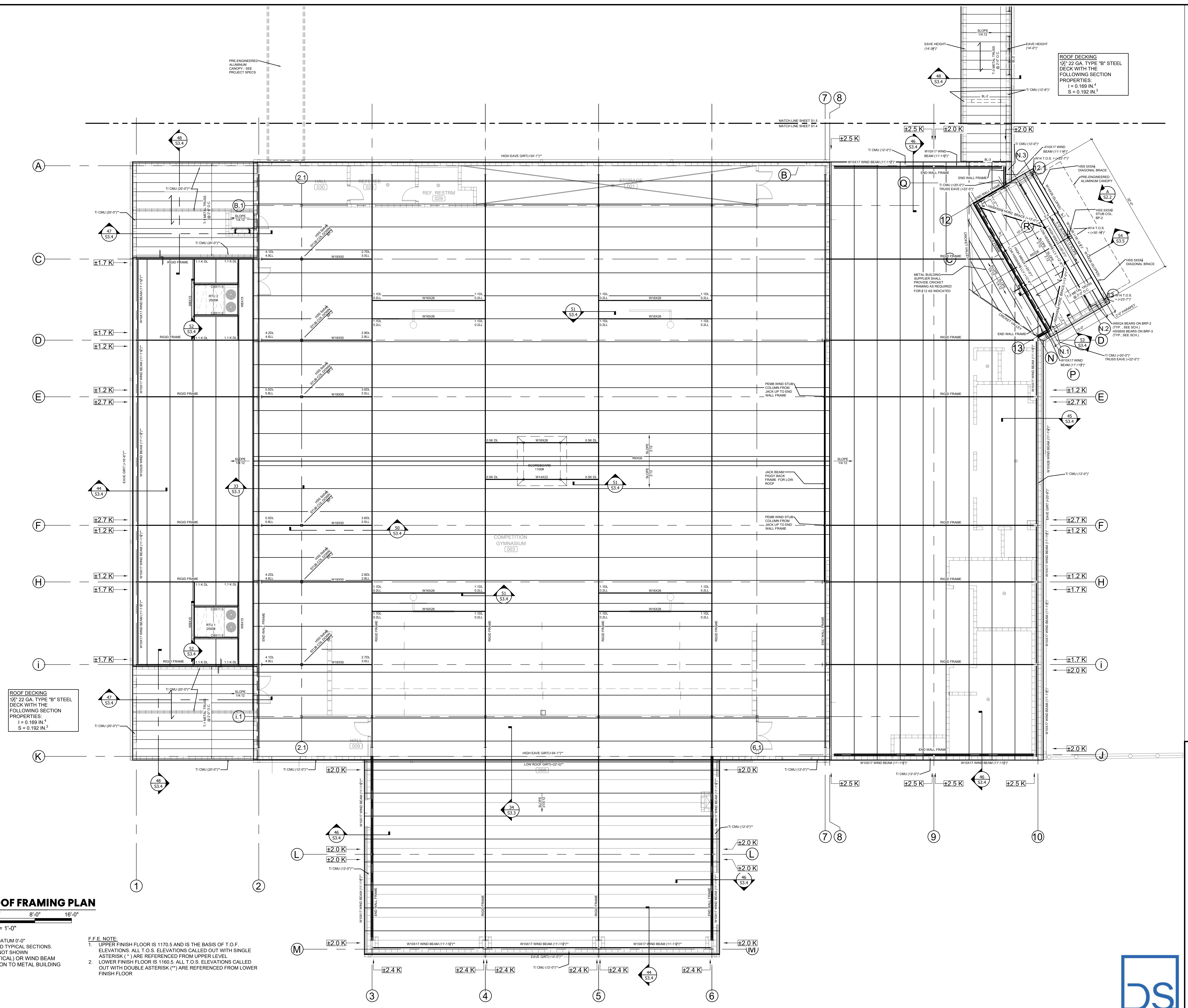




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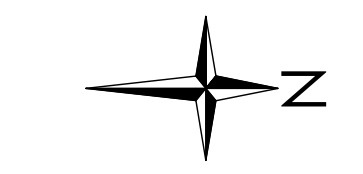
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ROOF DECKING  
1/2" 22 GA. TYPE "B" STEEL  
DECK WITH THE  
FOLLOWING SECTION  
PROPERTIES:  
I = 0.169 IN.<sup>4</sup>  
S = 0.192 IN.<sup>3</sup>

ROOF DECKING  
1/2" 22 GA. TYPE "B" STEEL  
DECK WITH THE  
FOLLOWING SECTION  
PROPERTIES:  
I = 0.169 IN.<sup>4</sup>  
S = 0.192 IN.<sup>3</sup>



**1 GYM ROOF FRAMING PLAN**  
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. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
  3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
  4. [X X KIP] INDICATES BEAM (VERTICAL) OR WIND BEAM (HORIZONTAL) SERVICE REACTION TO METAL BUILDING FRAME.

- F.F.E. NOTE:
1. UPPER FINISH FLOOR IS 1170.5 AND IS THE BASIS OF T.O.F. ELEVATIONS. ALL T.O.S. ELEVATIONS CALLED OUT WITH SINGLE ASTERISK (\*) ARE REFERENCED FROM UPPER LEVEL.
  2. LOWER FINISH FLOOR IS 1160.5. ALL T.O.S. ELEVATIONS CALLED OUT WITH DOUBLE ASTERISK (\*\*) ARE REFERENCED FROM LOWER FINISH FLOOR.

SHEET TITLE : ROOF FRAMING PLAN  
MCKEE JOB # : 24-169  
DRAWN BY : TNS  
DATE : 9.18.2024  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :



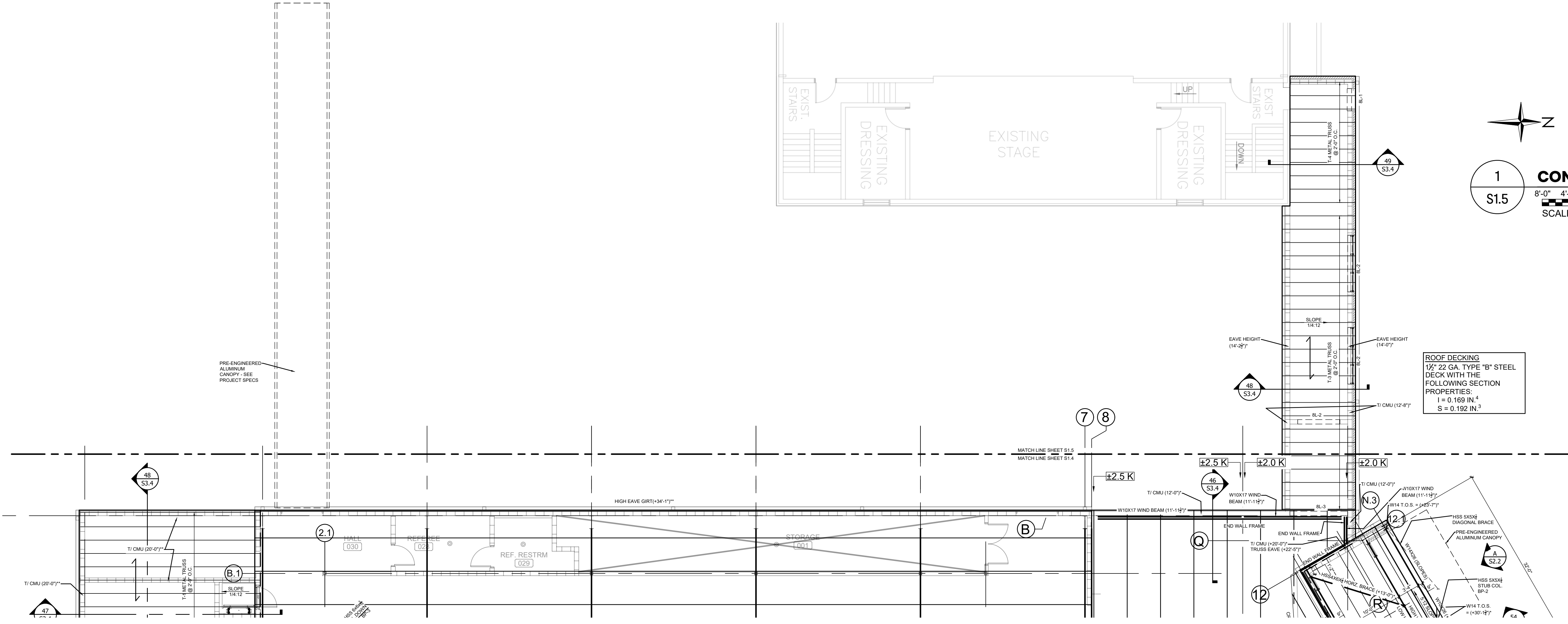
SHEET NO. : S1.4



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**1**  
**S1.5**

**CONNECTOR ROOF FRAMING PLAN**

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

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

North Arrow

ROOF DECKING  
1/2" 22 GA. TYPE "B" STEEL  
DECK WITH THE  
FOLLOWING SECTION  
PROPERTIES:  
I = 0.169 IN<sup>4</sup>  
S = 0.192 IN<sup>3</sup>

SHEET TITLE : CONNECTOR ROOF FRAMING PLAN

MCKEE JOB # : 24-169

DRAWN BY : TNS

DATE : 9.18.2024

REVISED DATE :

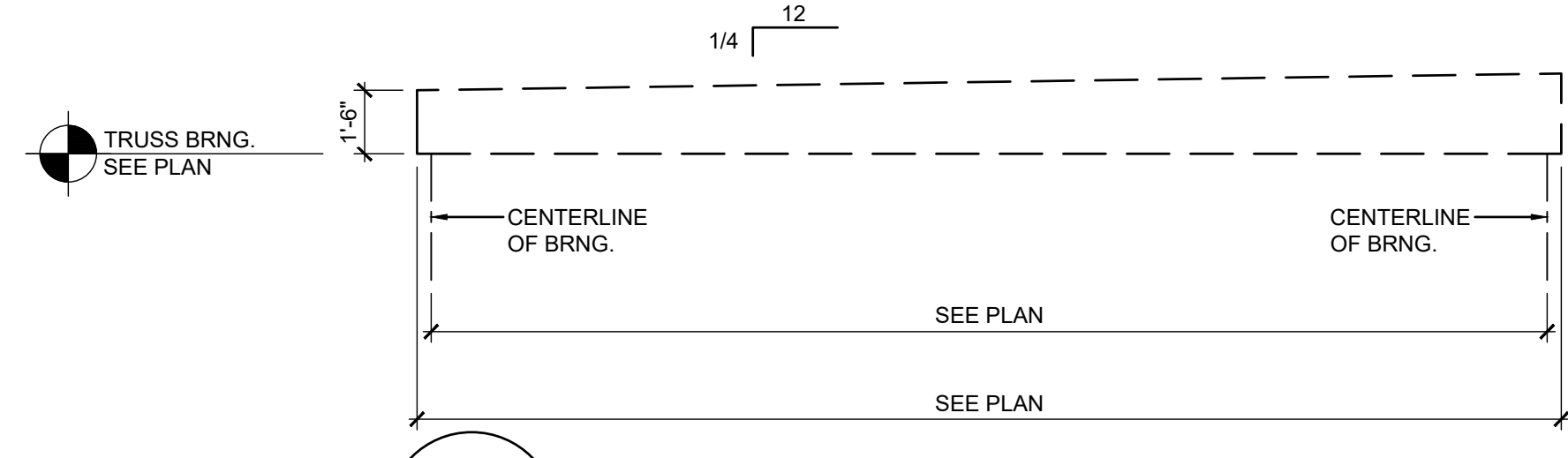
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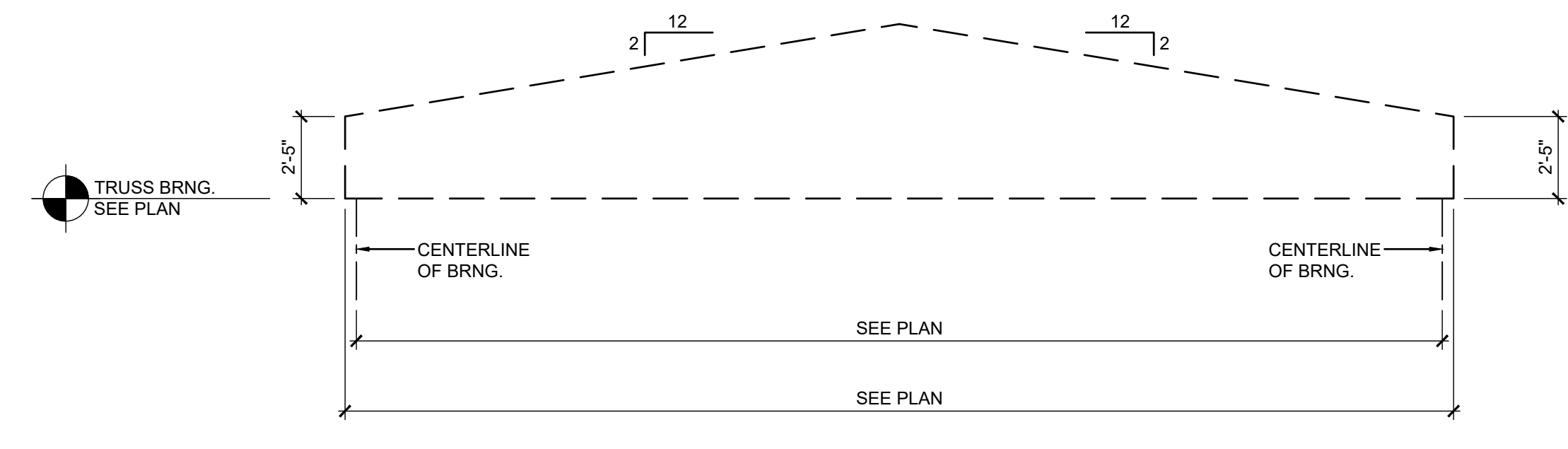


SHEET NO. : **S1.5**

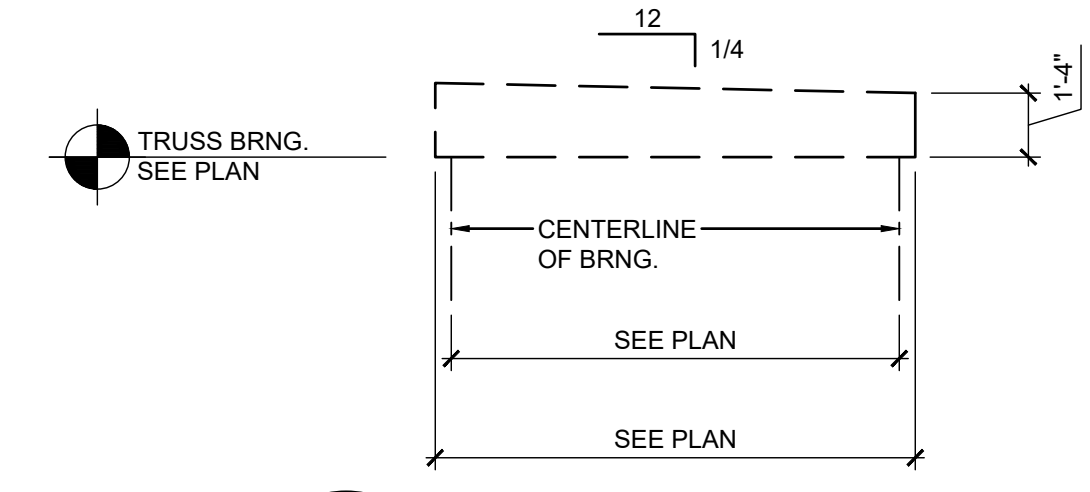




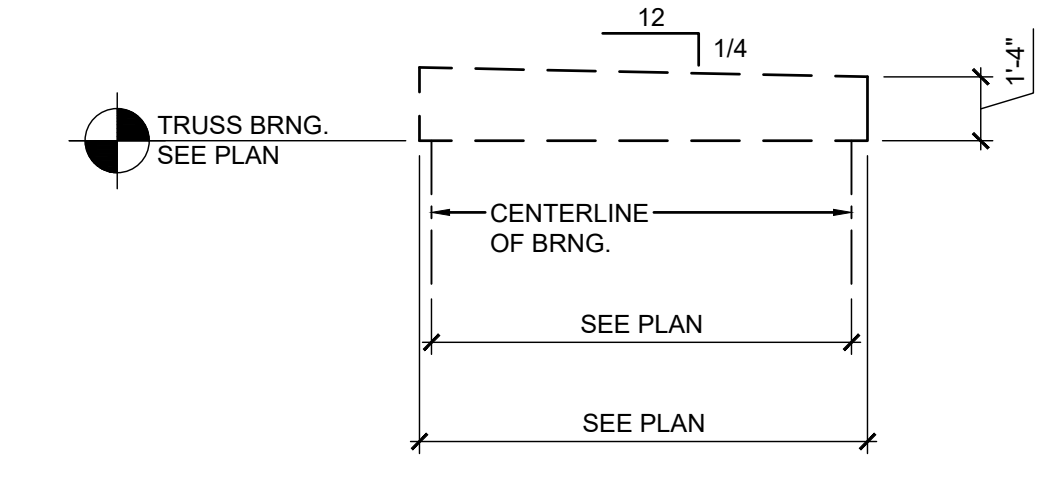
**T-1 TRUSS DIAGRAM**  
S2.1  
SCALE: NTS



**T-2 TRUSS DIAGRAM**  
S2.1  
SCALE: NTS



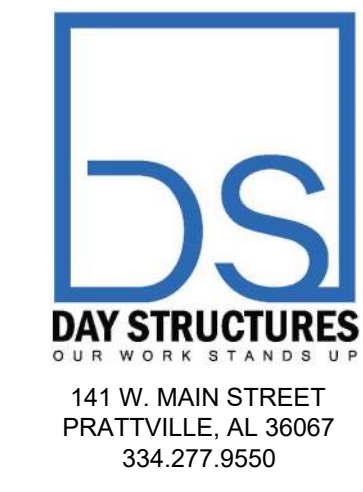
**T-3 TRUSS DIAGRAM**  
S2.1  
SCALE: NTS



**T-4 TRUSS DIAGRAM**  
S2.1  
SCALE: NTS

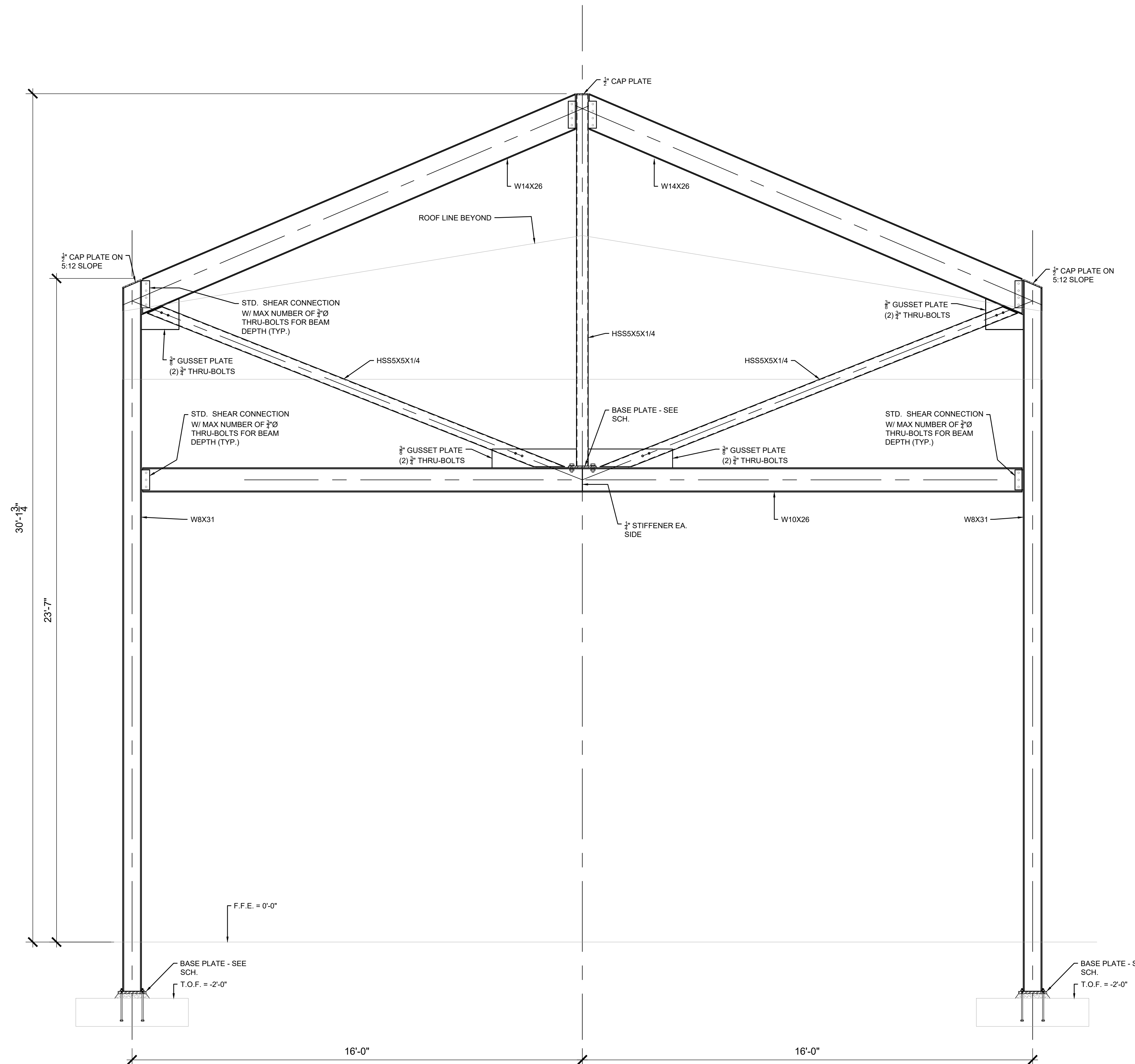
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SHEET TITLE : TRUSS DIAGRAMS  
MCKEE JOB # : 24-169  
DRAWN BY : TNS  
DATE : 9.18.2024  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **S2.1**





**A**  
**S3.2** **ENTRANCE STEEL ELEVATION**  
 SCALE: 1/2" = 1'-0"

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SHEET TITLE : STEEL ELEVATION  
 MCKEE JOB # : 24-169  
 DRAWN BY : TNS  
 DATE : 9.18.2024  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :



SHEET NO. : **S2.2**



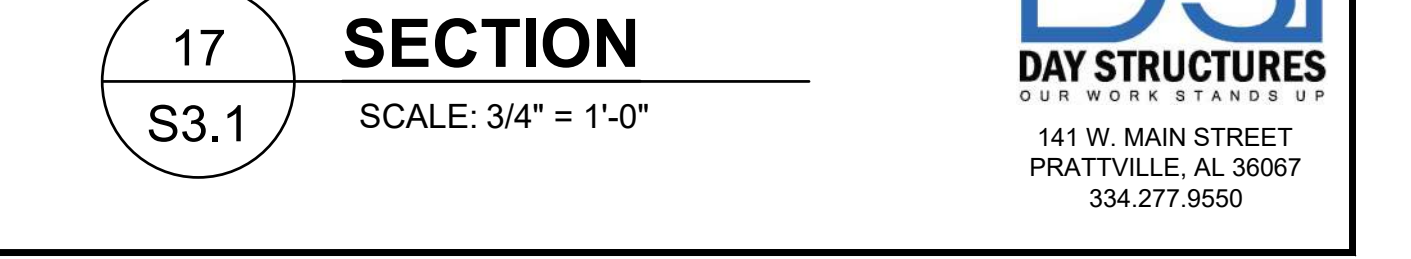
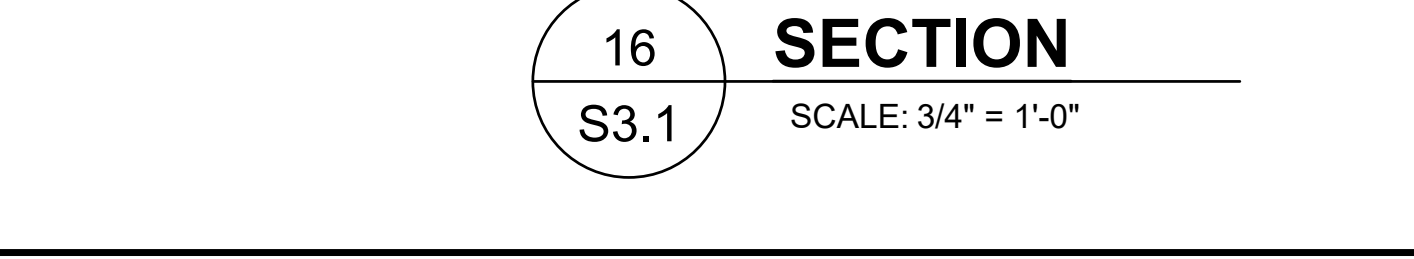
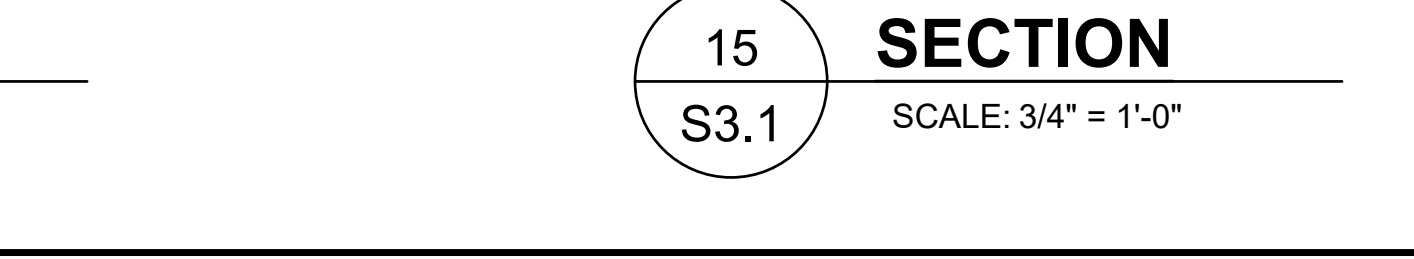
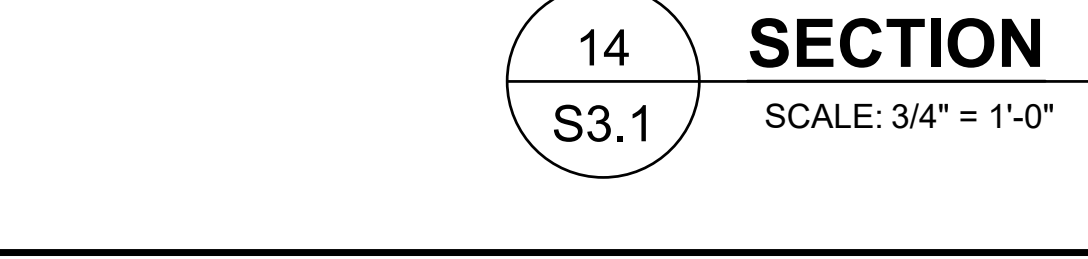
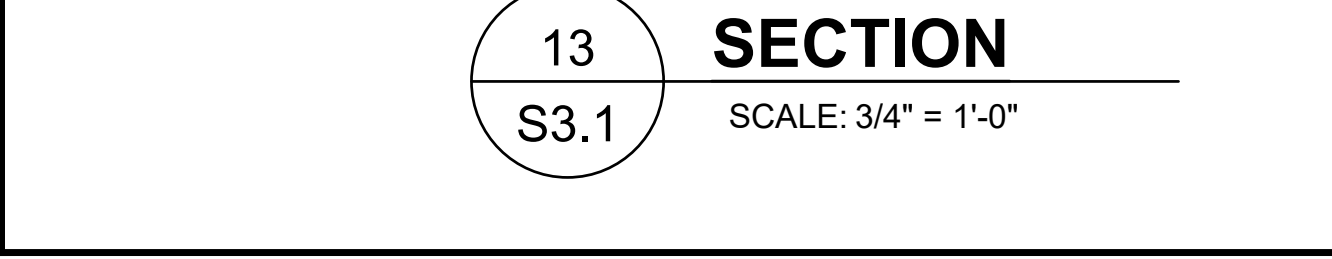
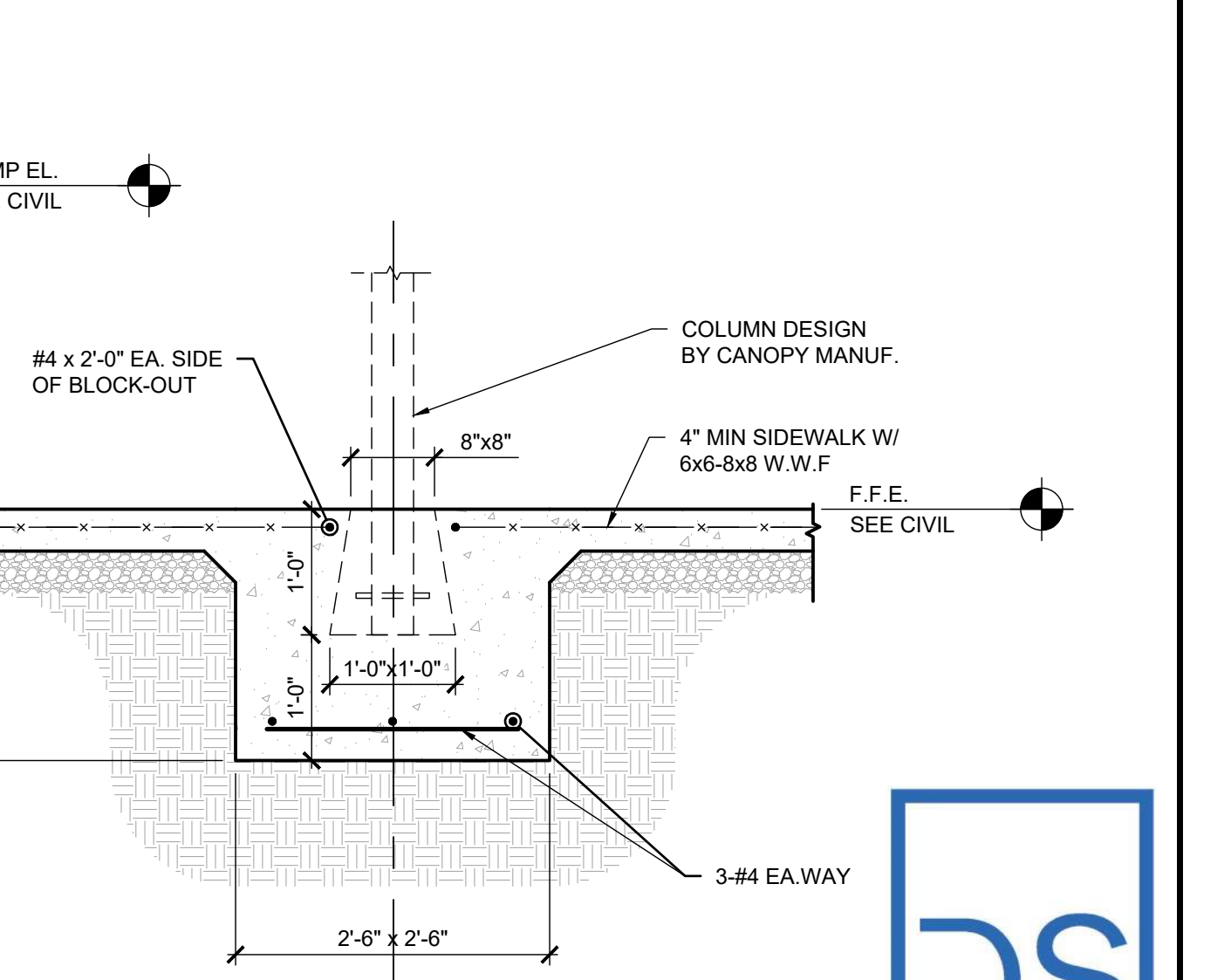
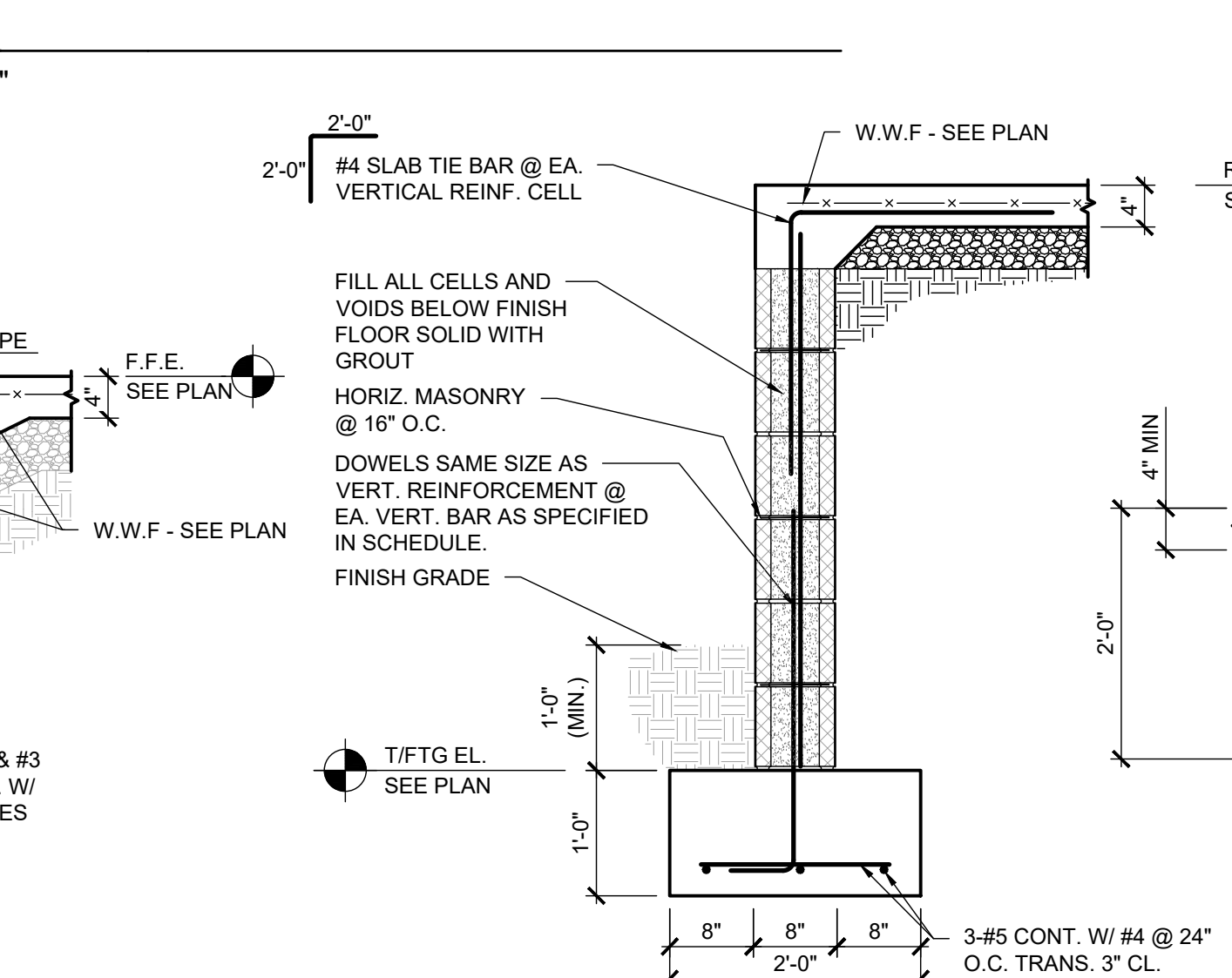
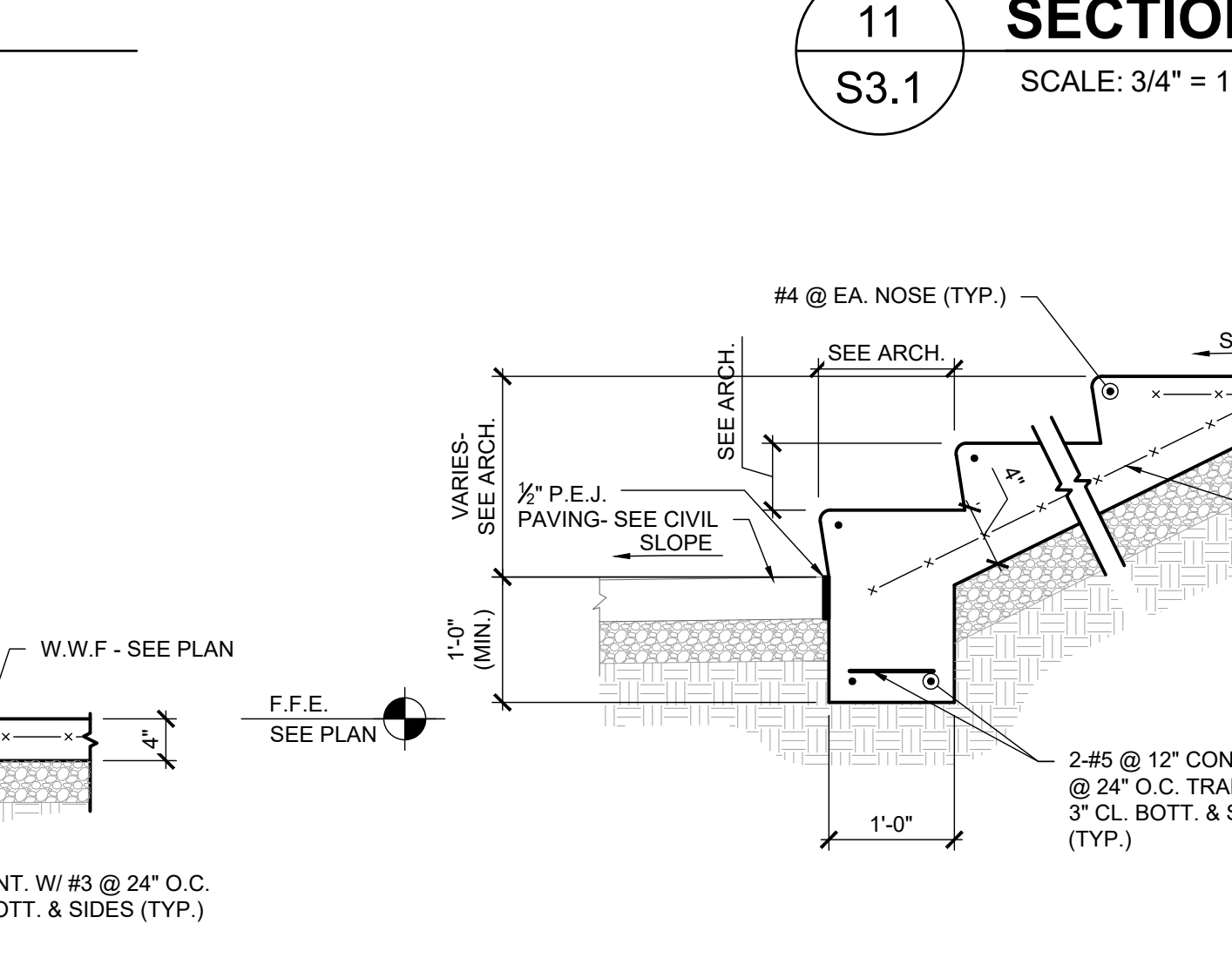
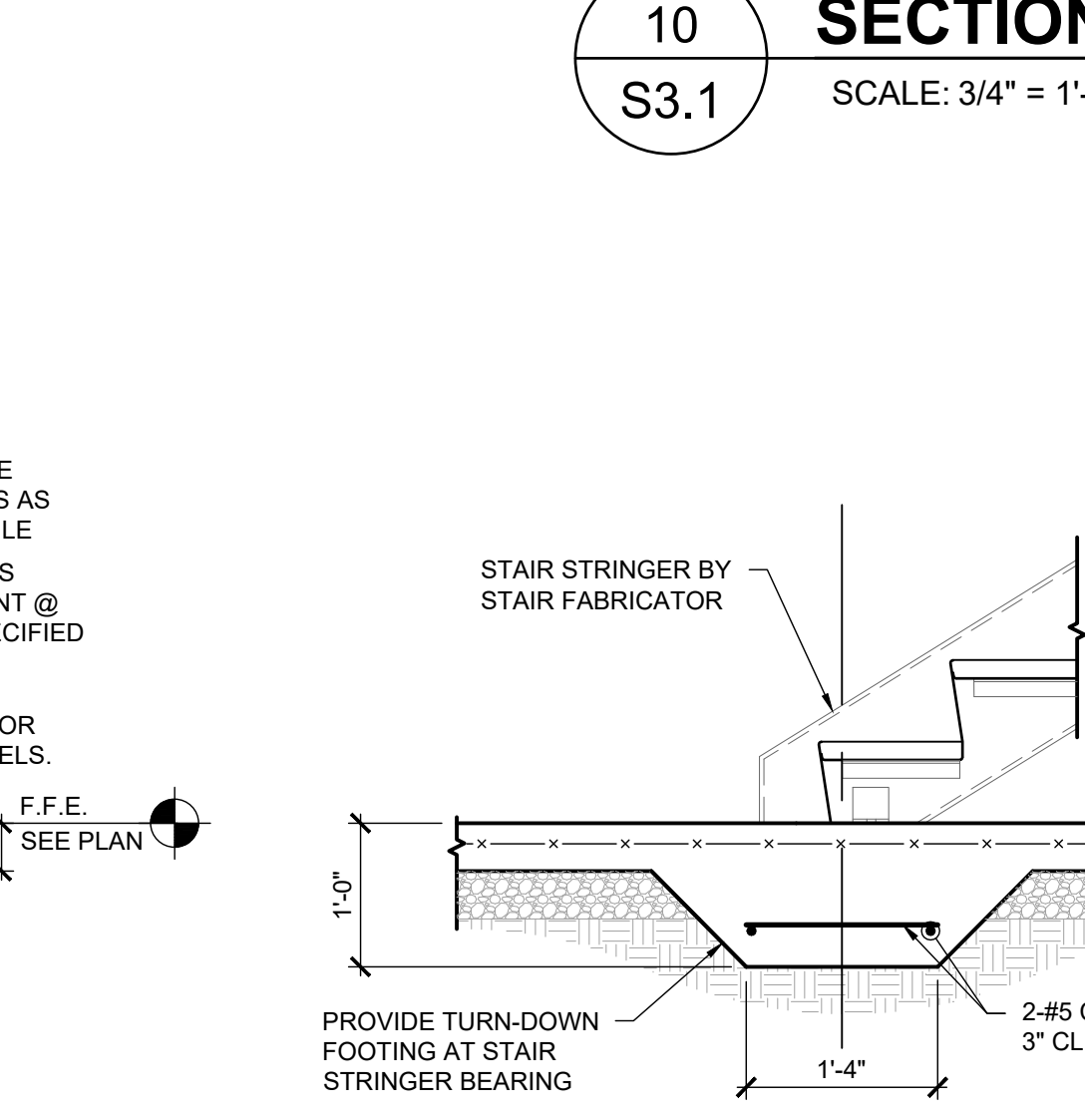
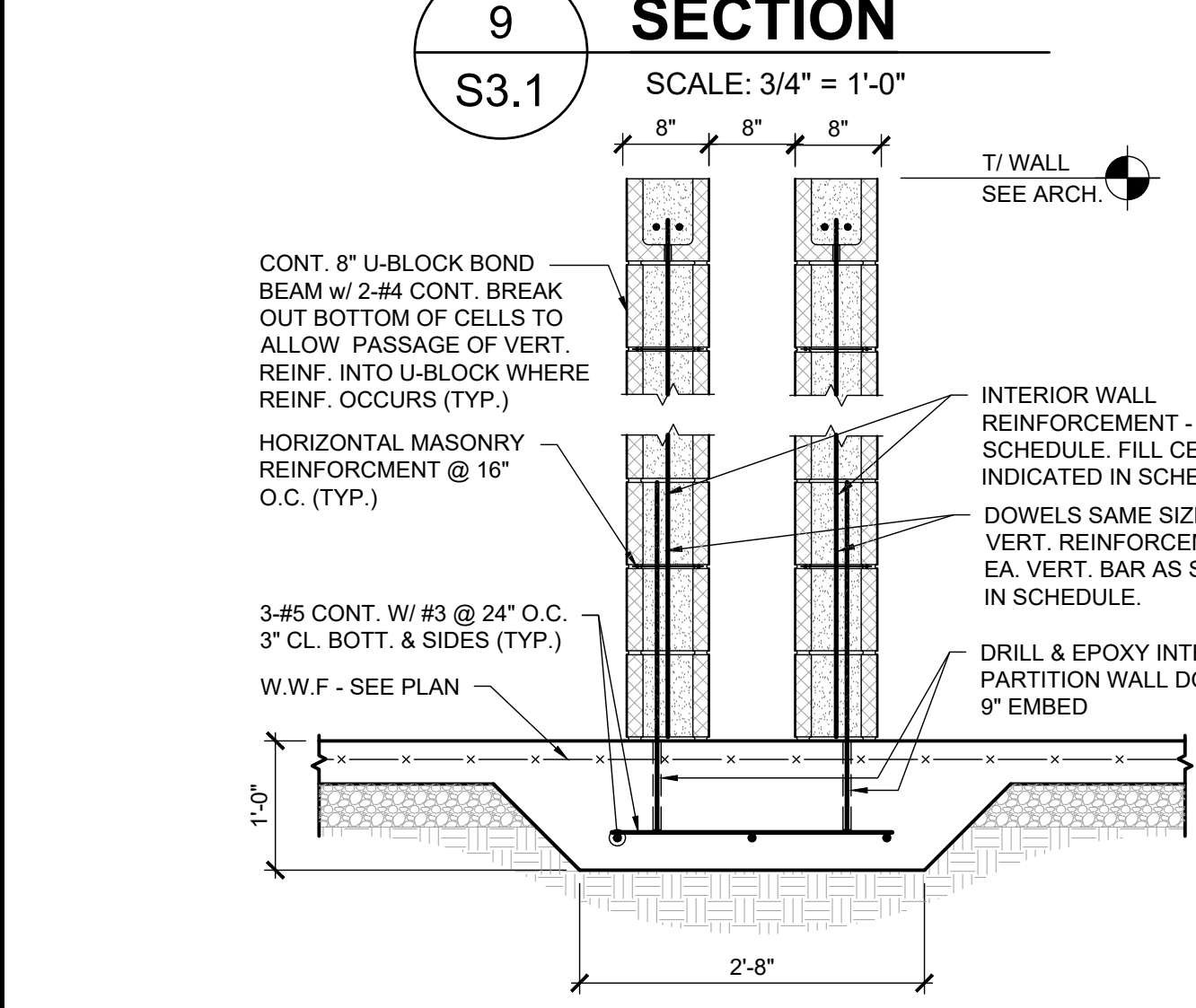
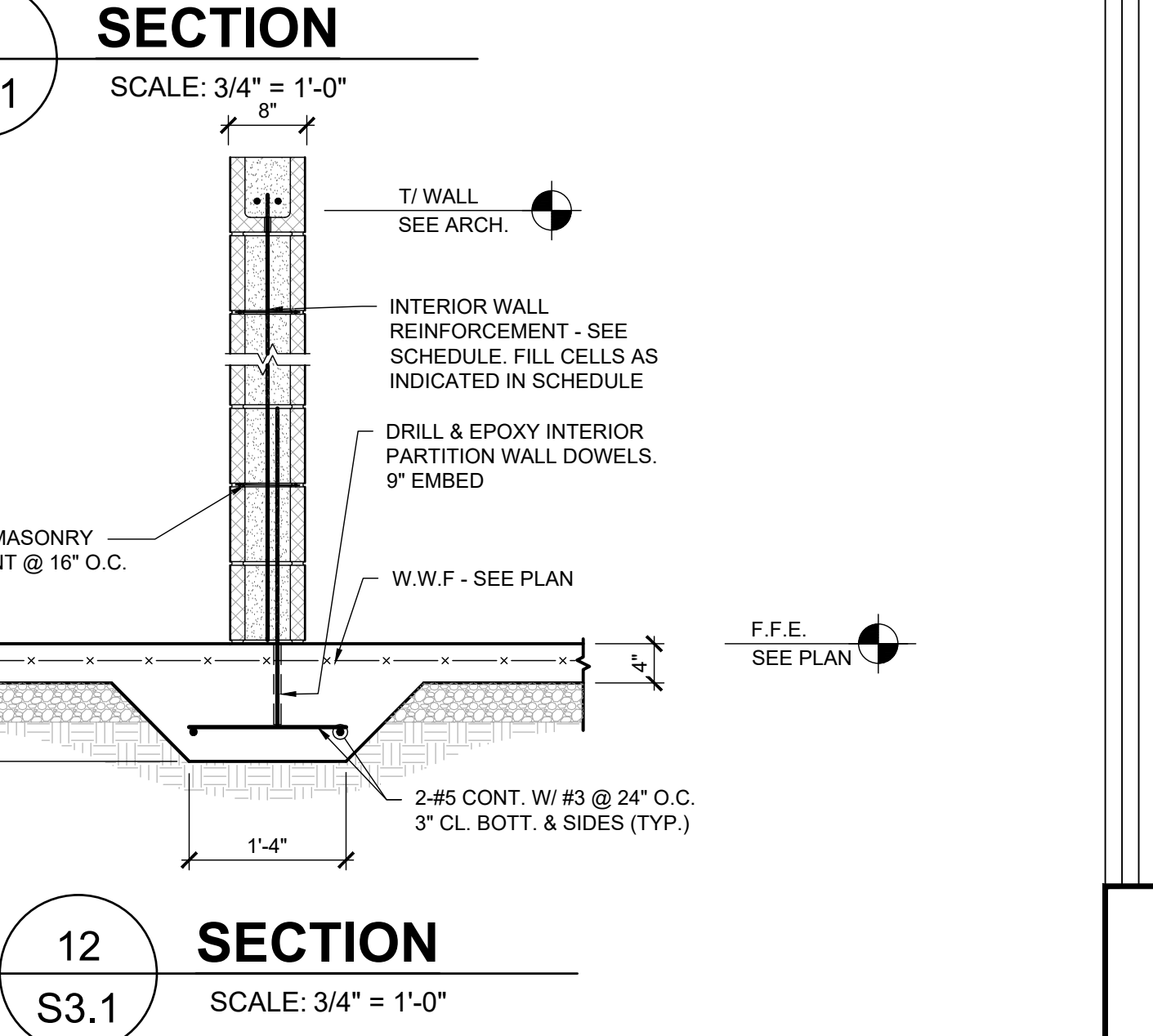
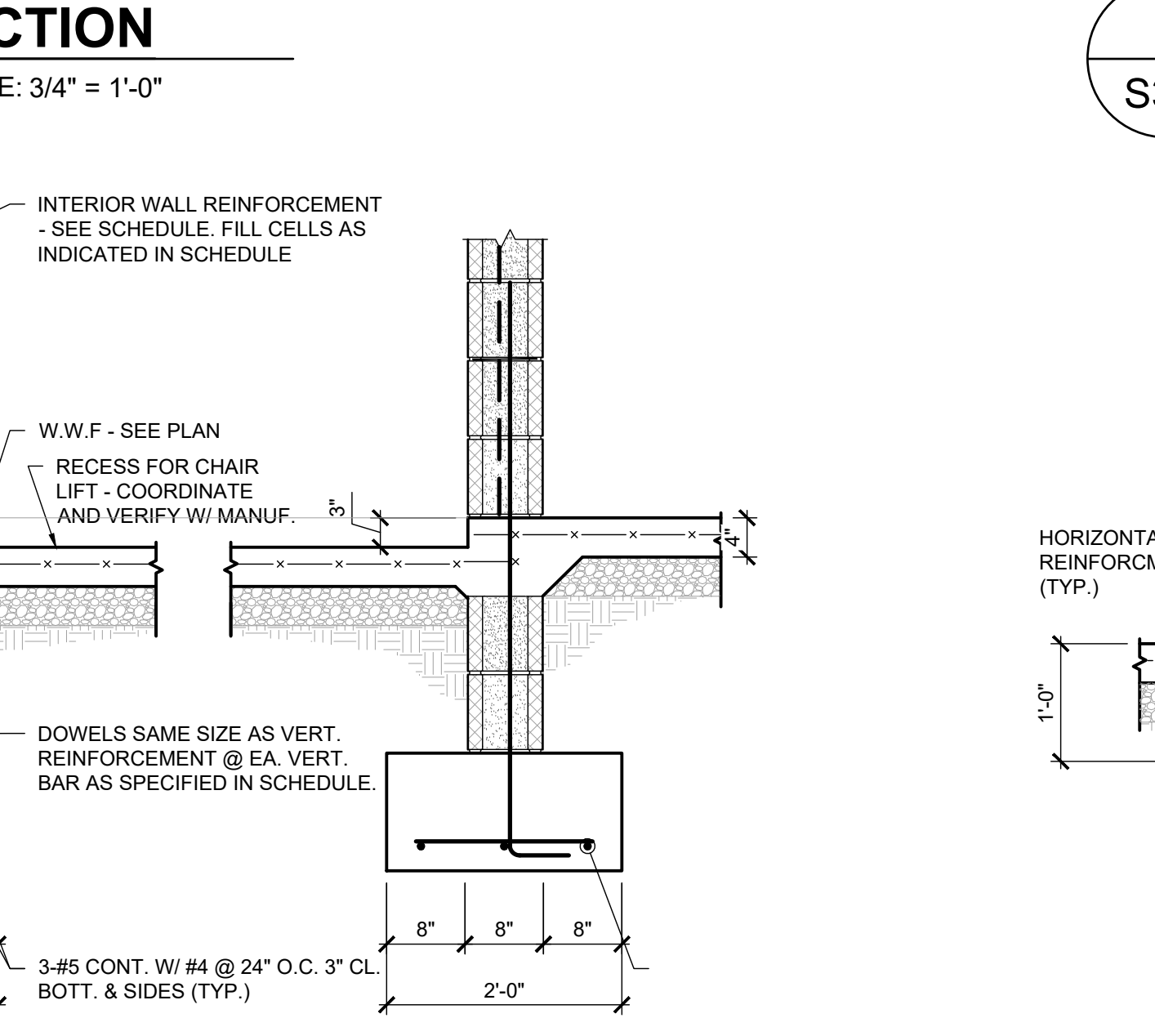
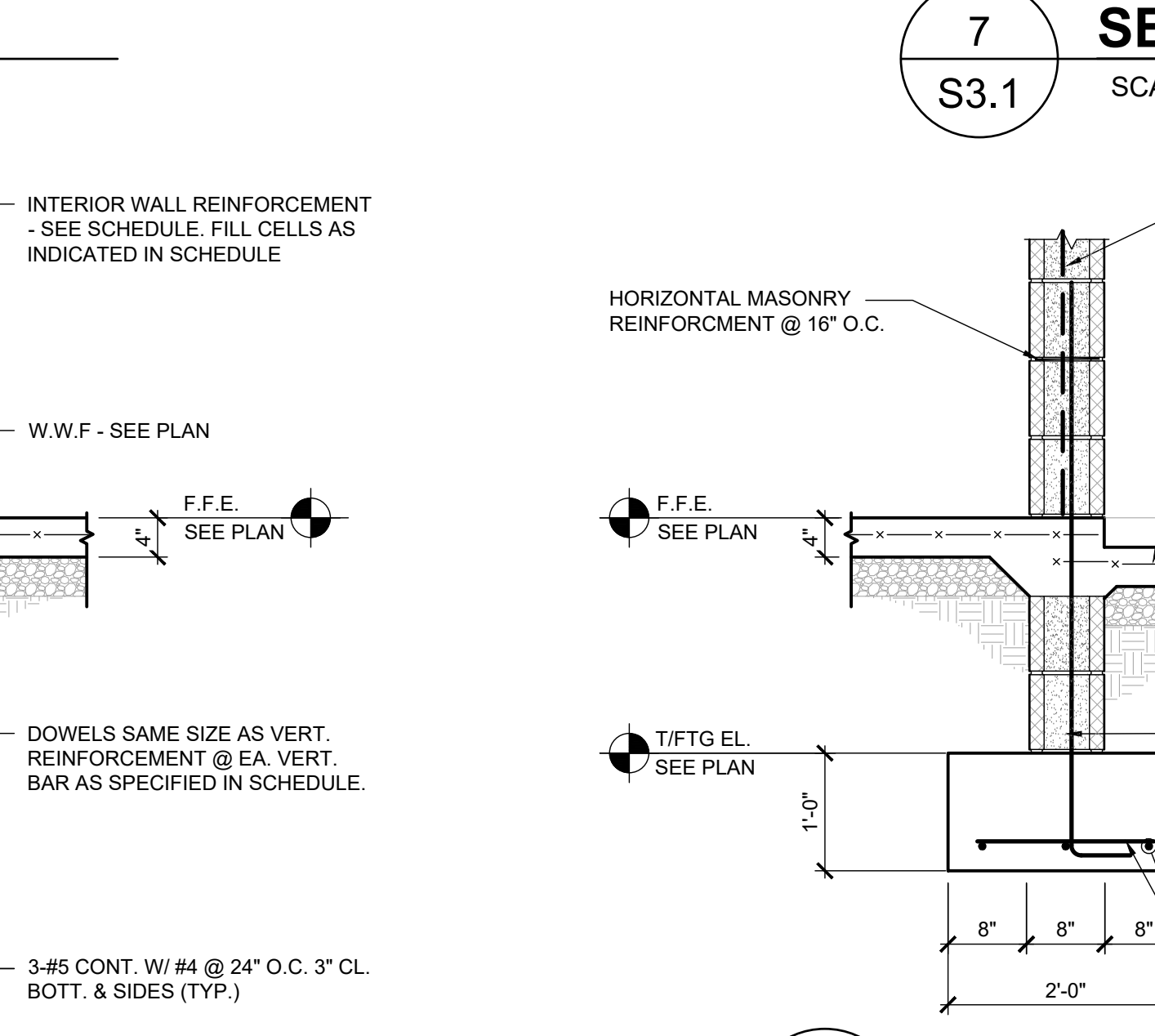
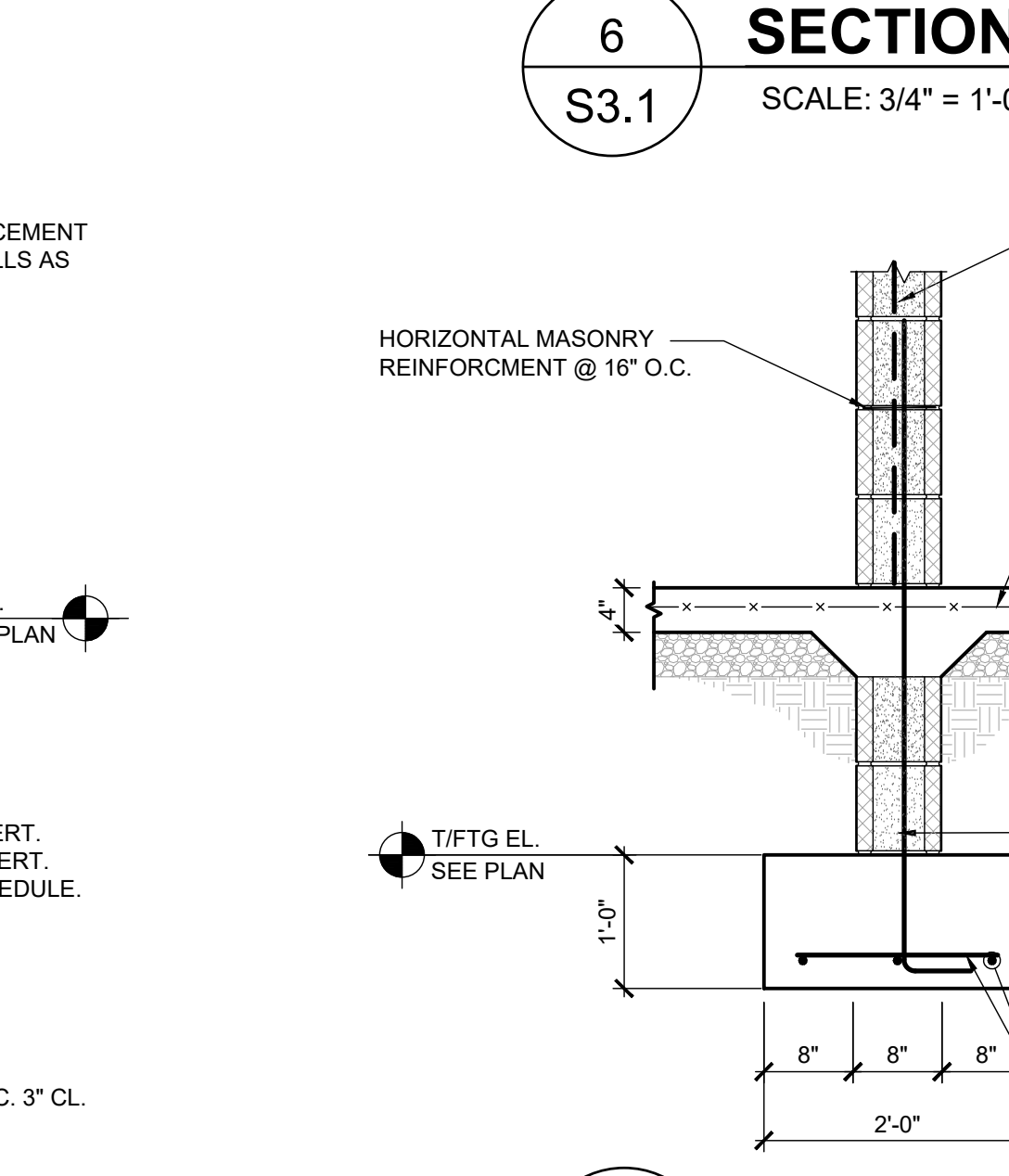
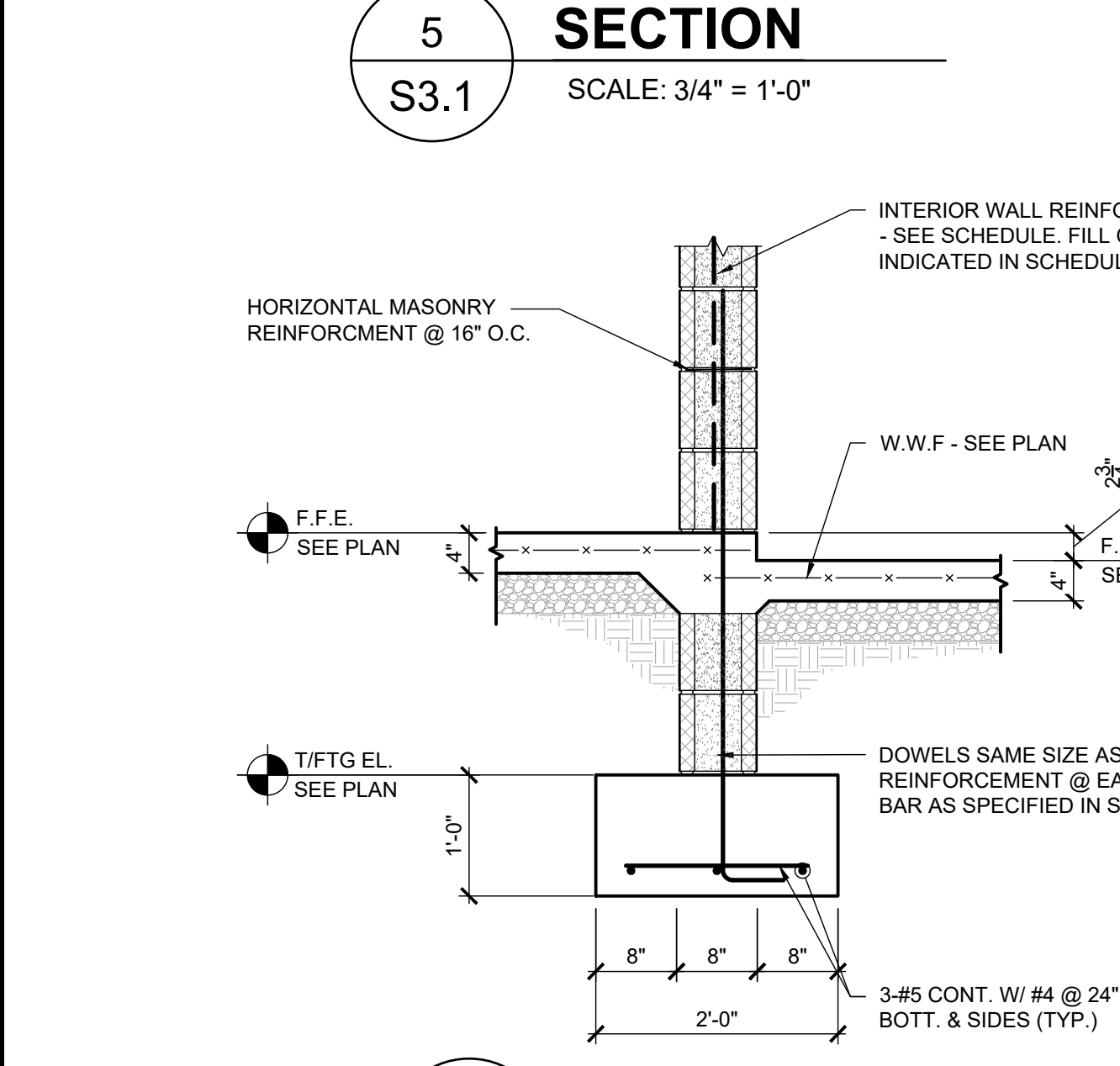
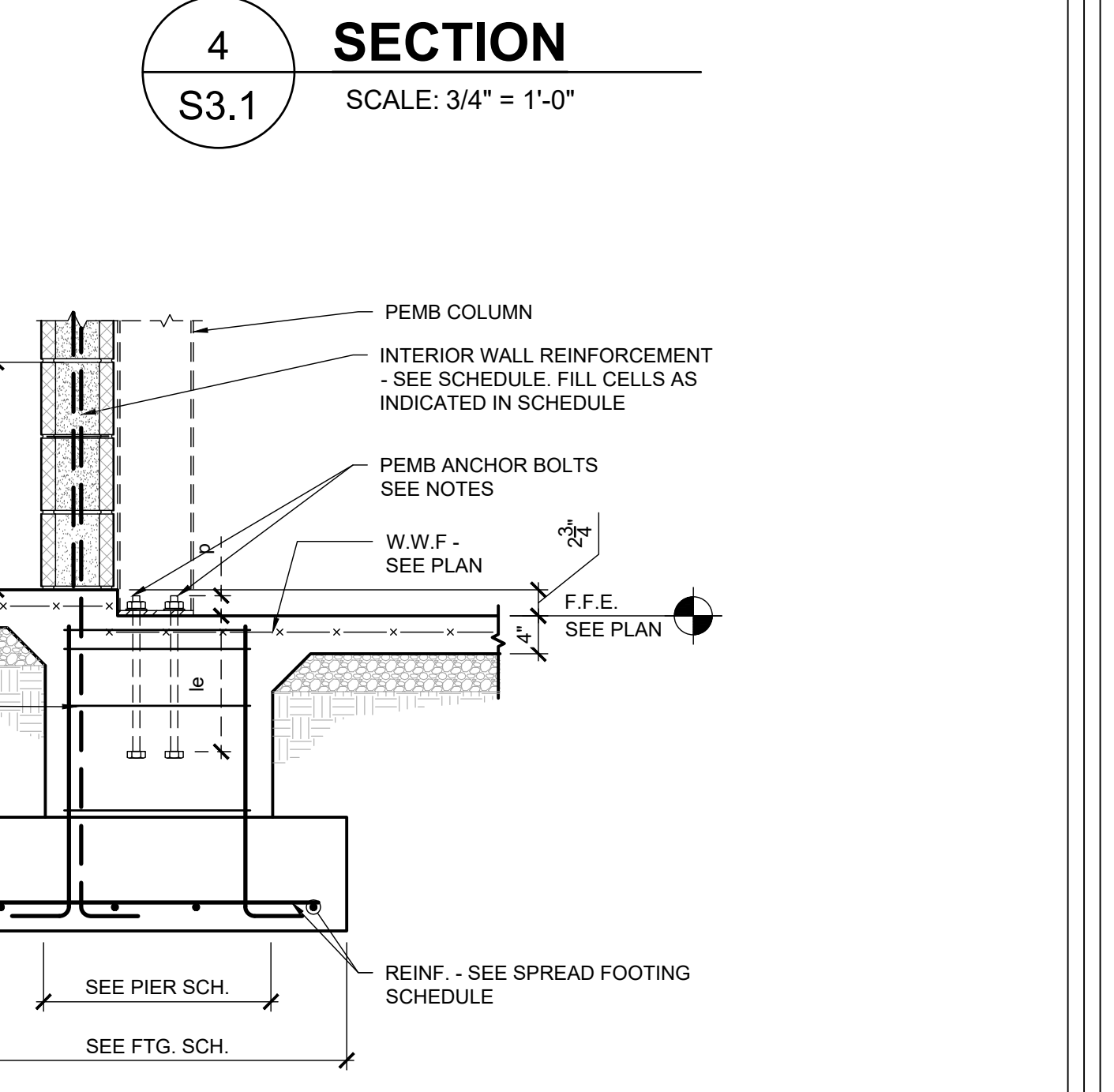
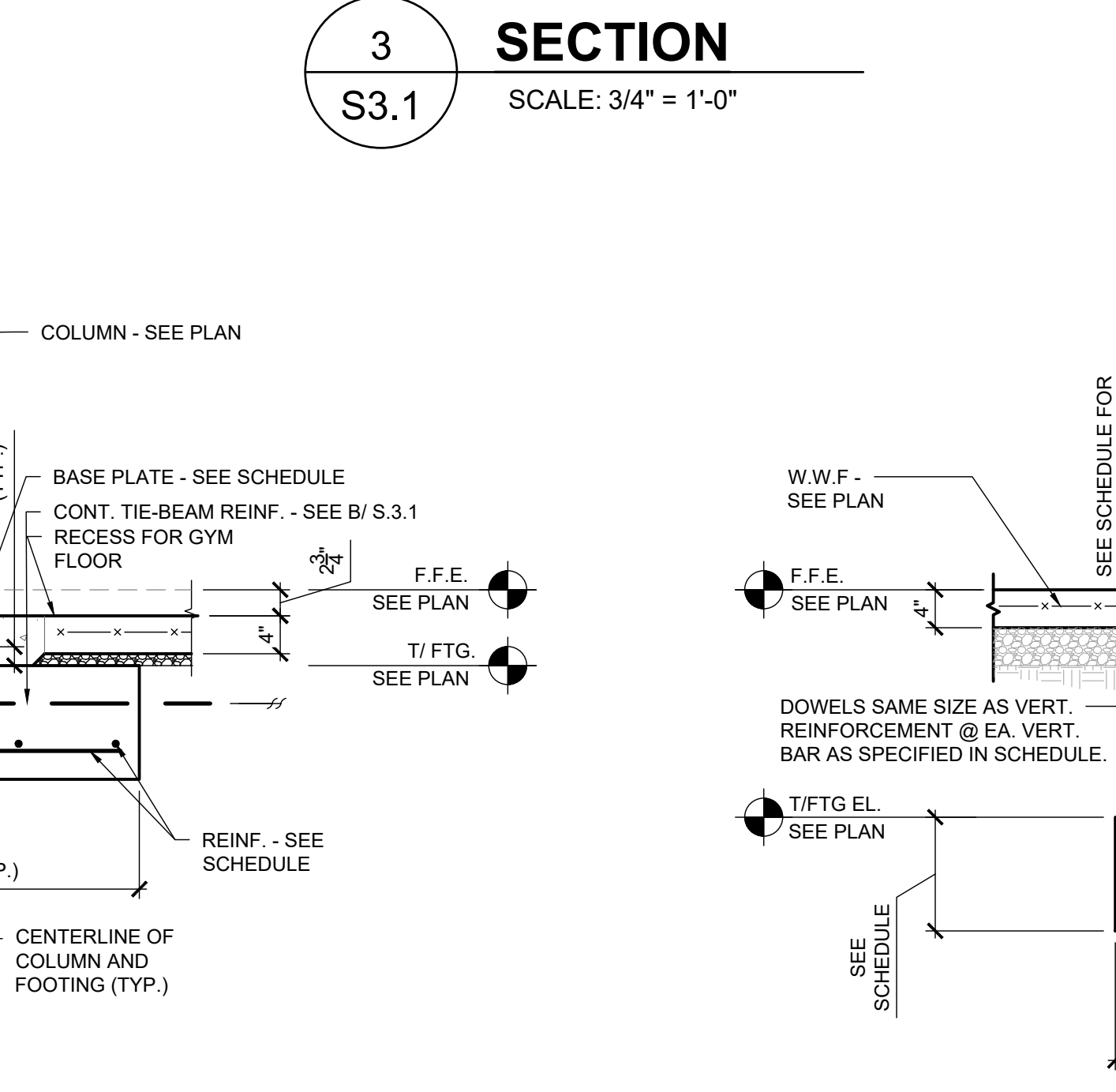
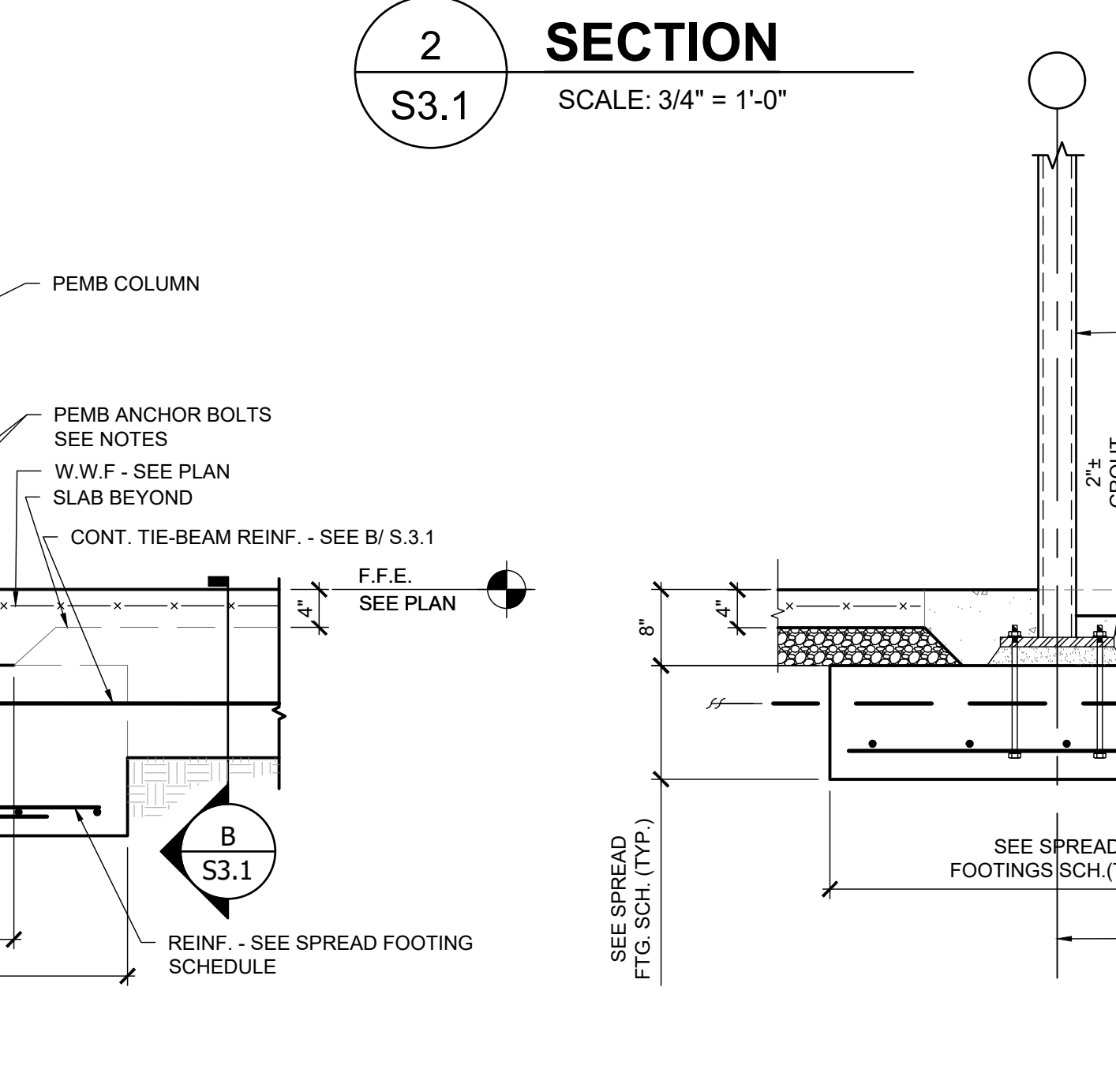
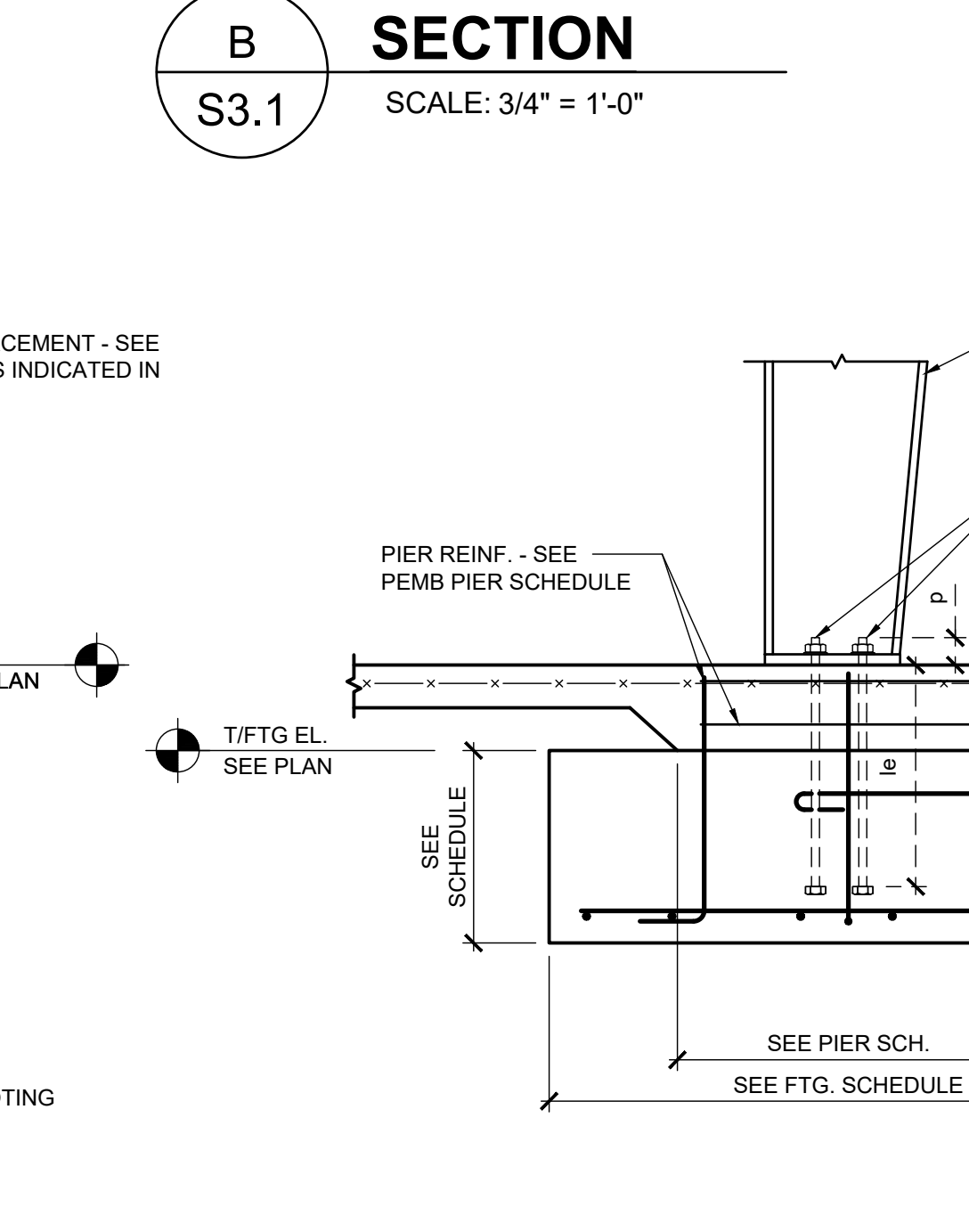
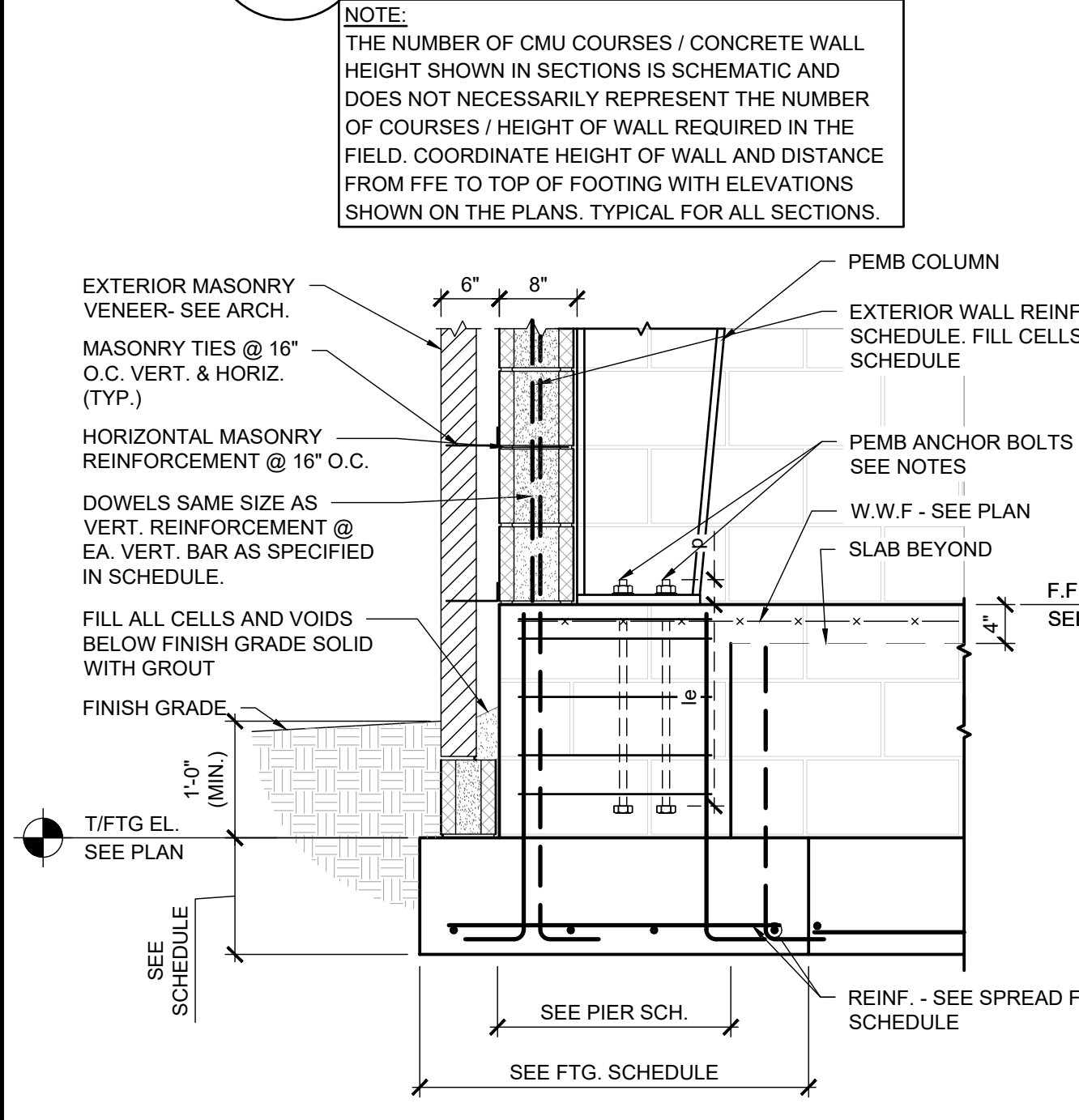
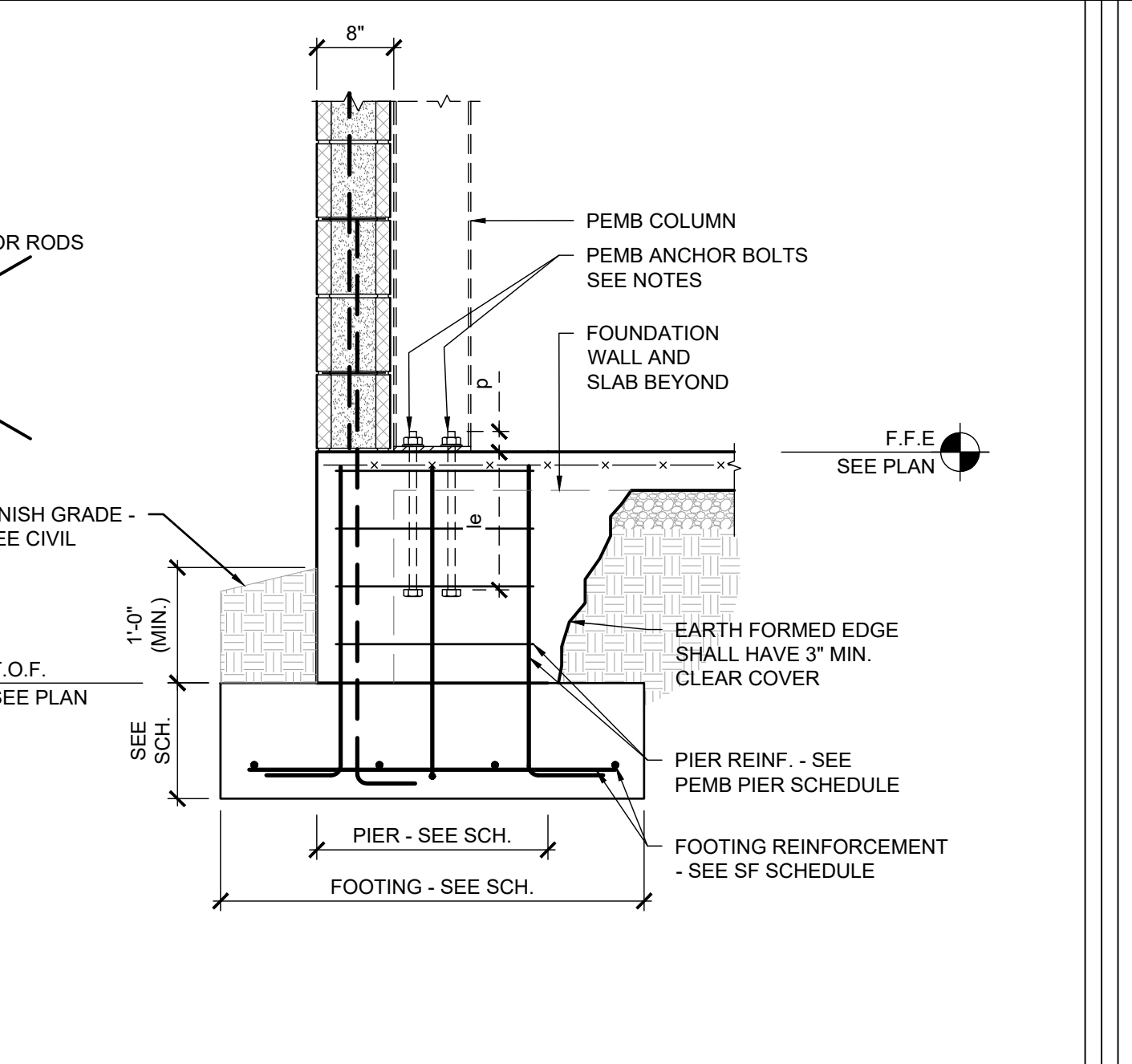
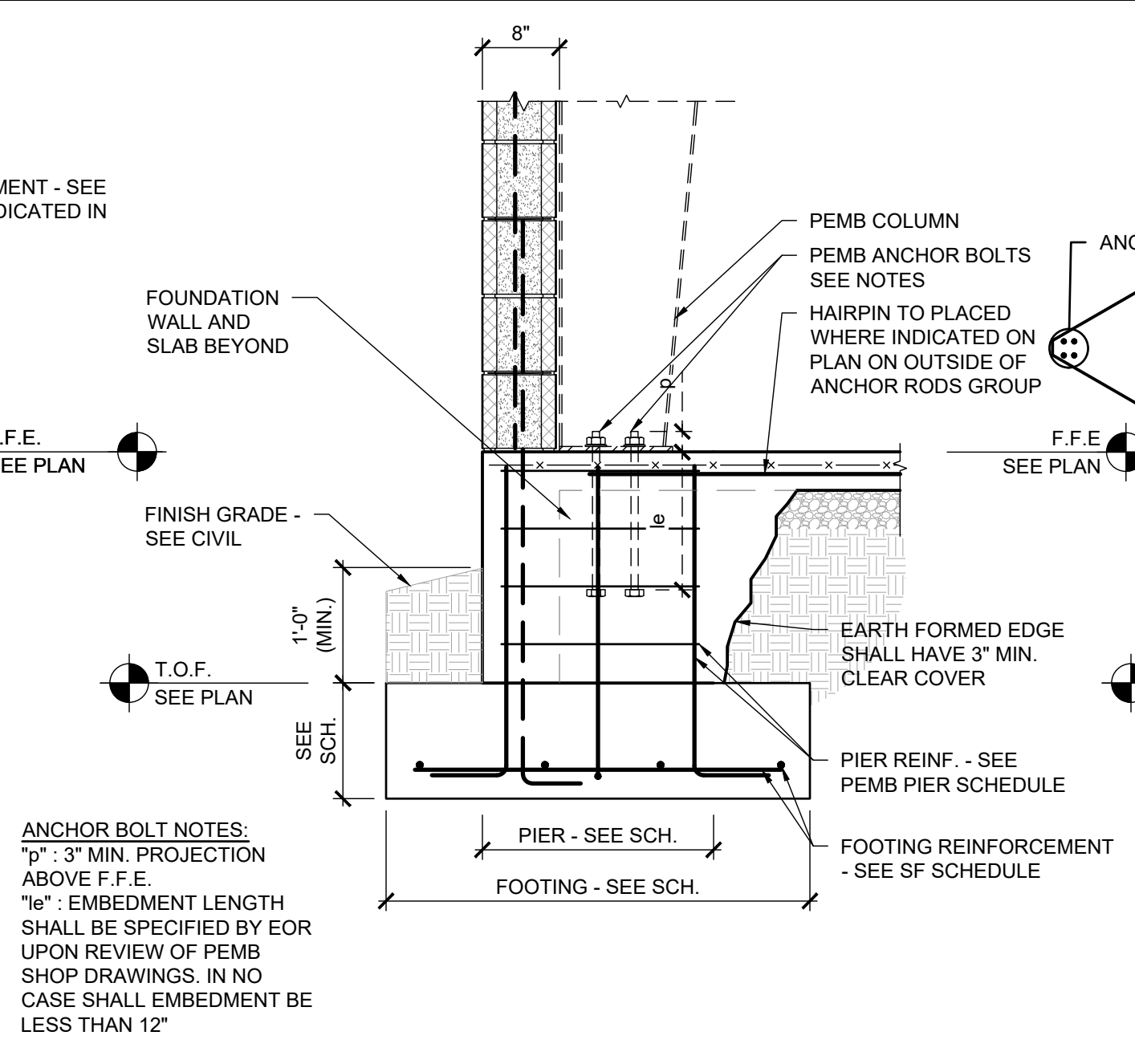
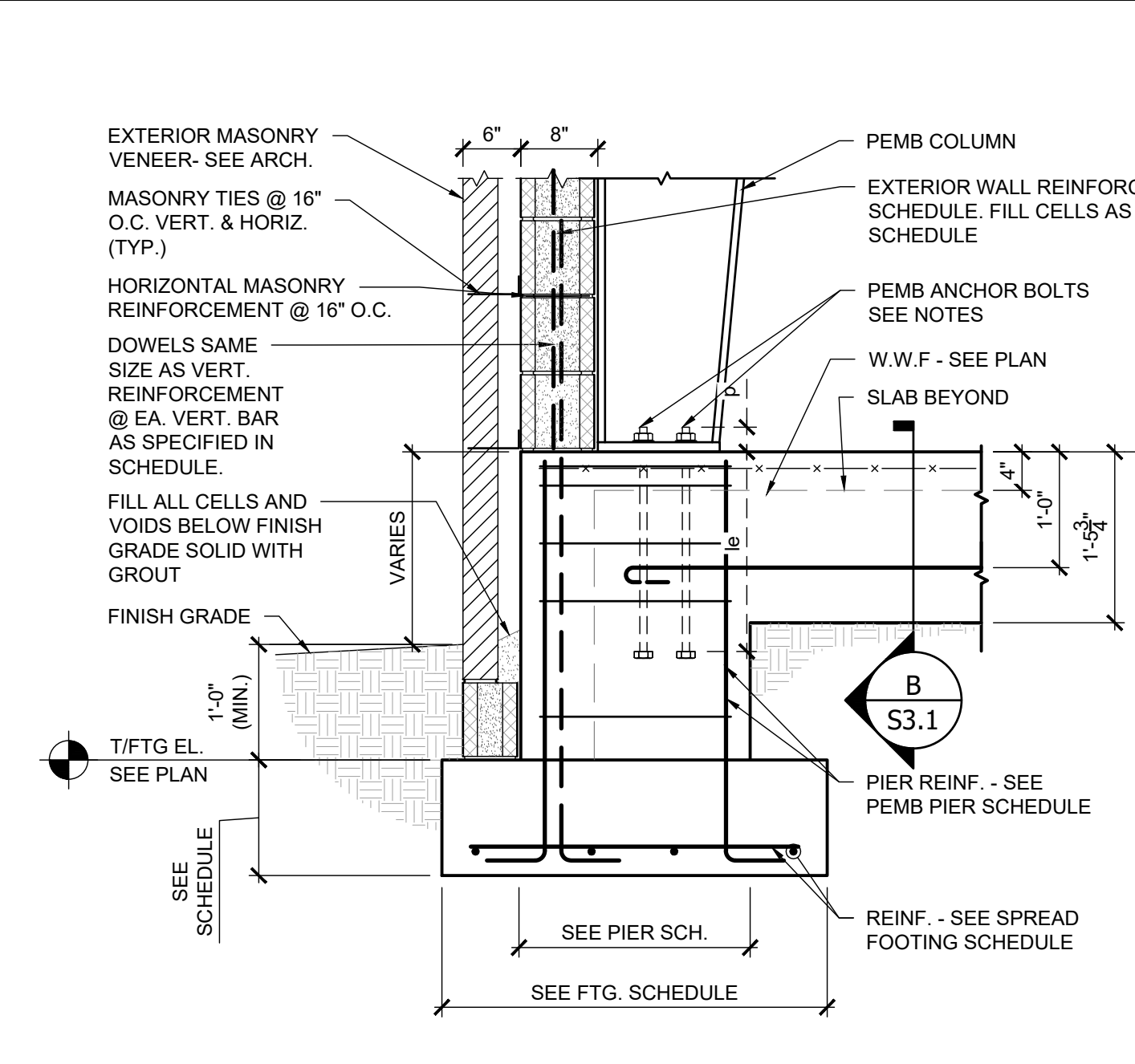
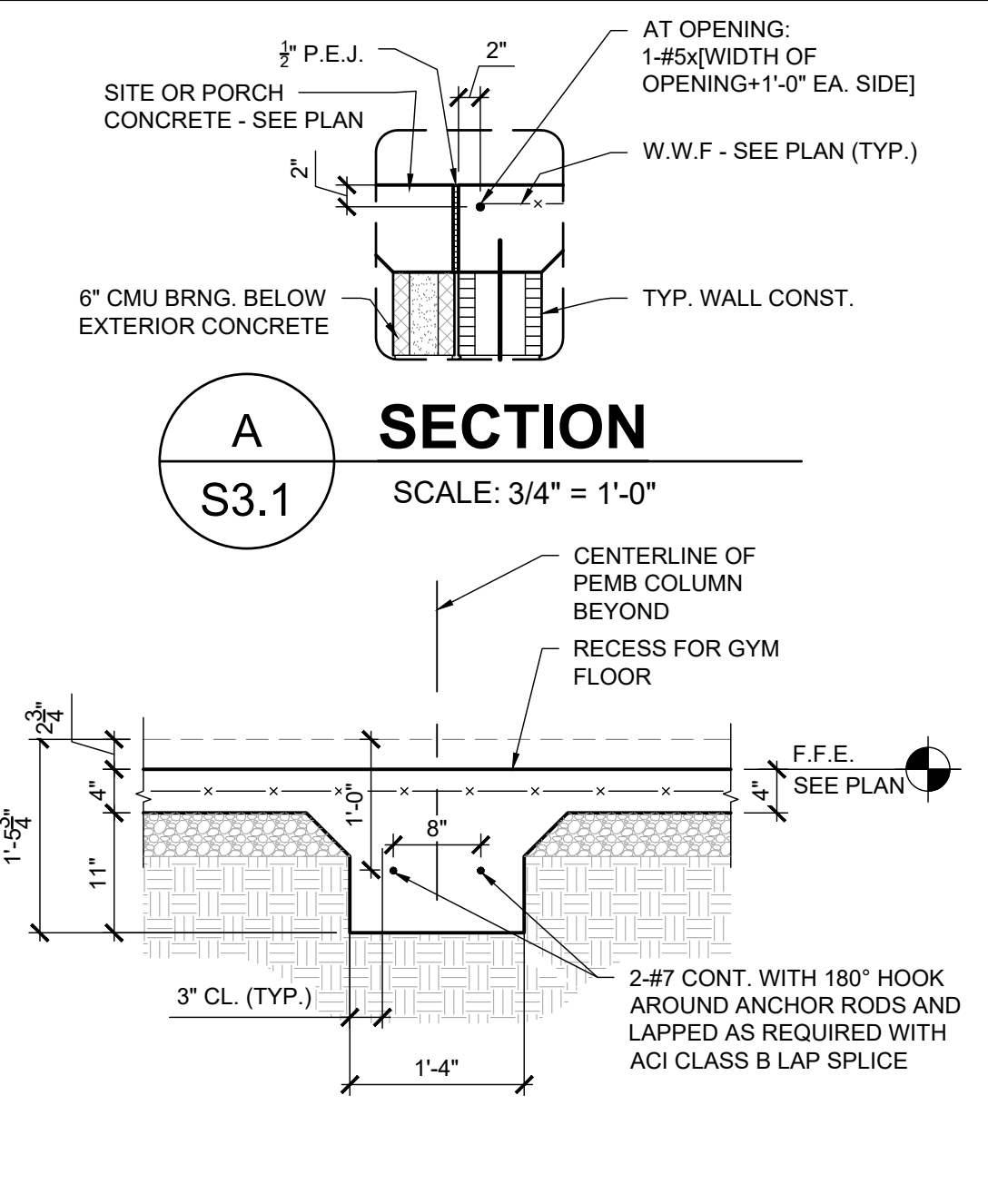
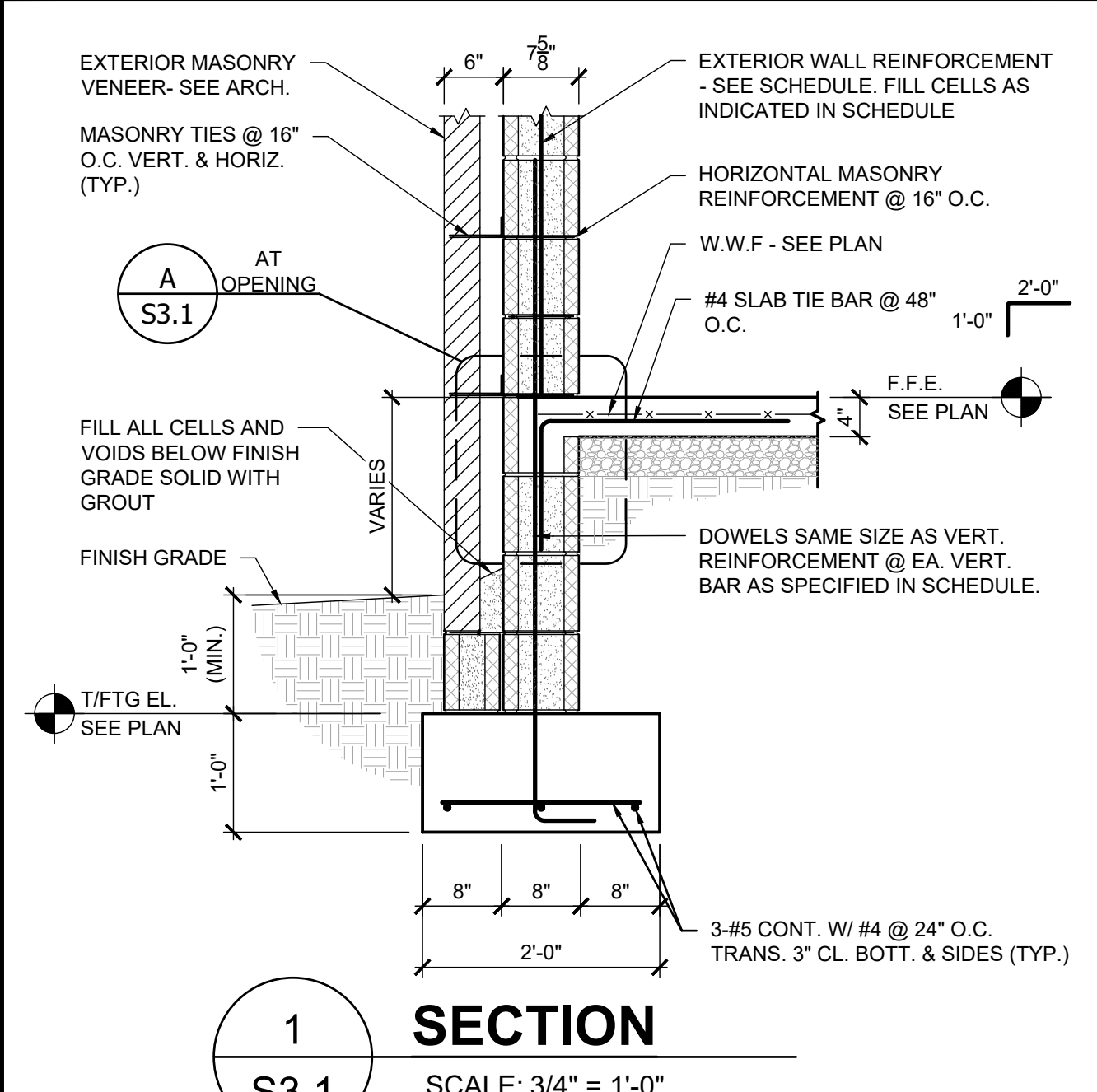
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FOR THE BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

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

SHEET TITLE: SECTIONS  
MCKEE JOB #: 24-169  
DRAWN BY: TNS  
DATE: 9.18.2024  
REVISED DATE:  
REVISED DATE:  
REVISED DATE:



S3.1

SHEET NO.:



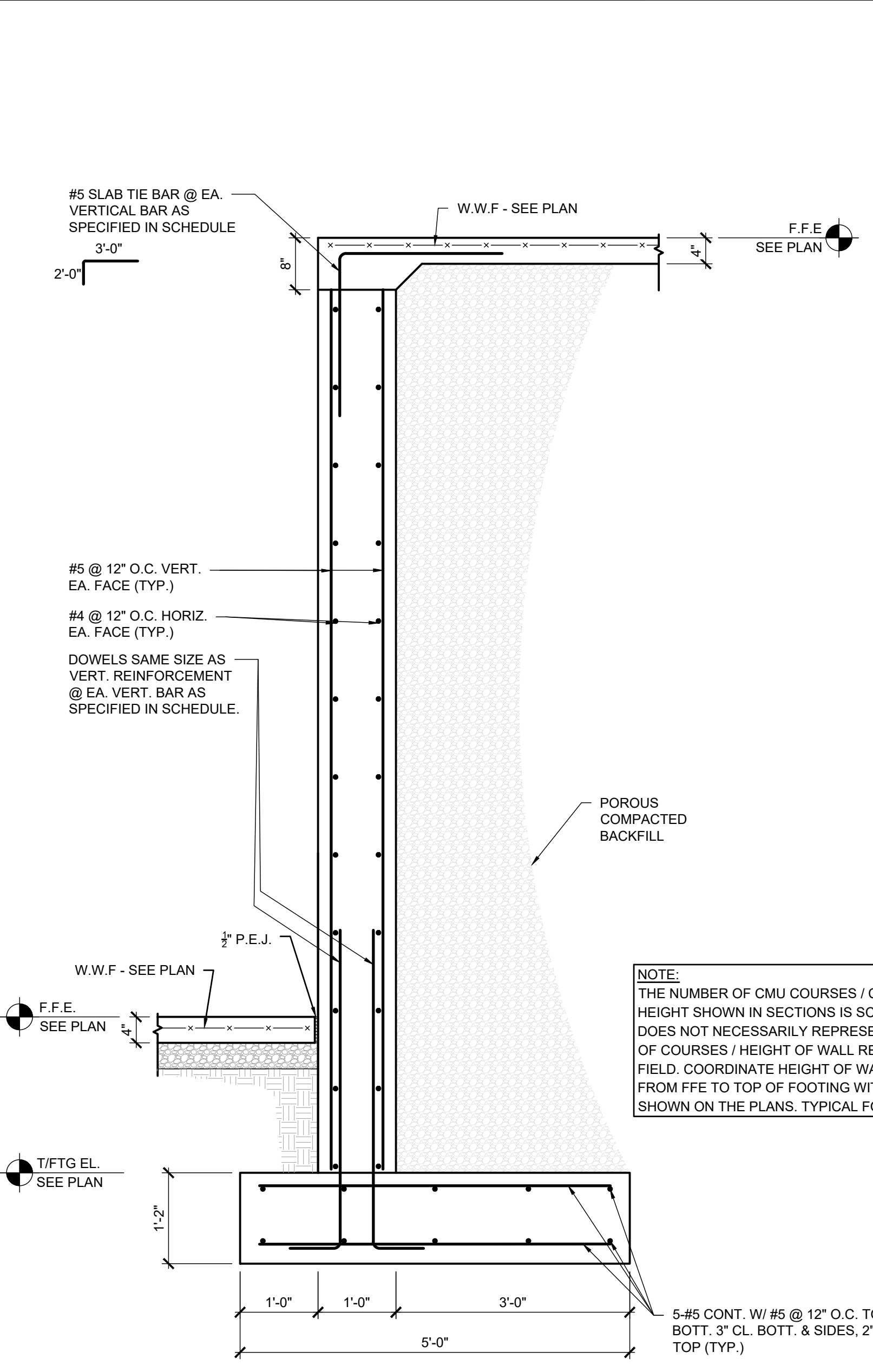
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BLOUNT COUNTY BOARD OF EDUCATION

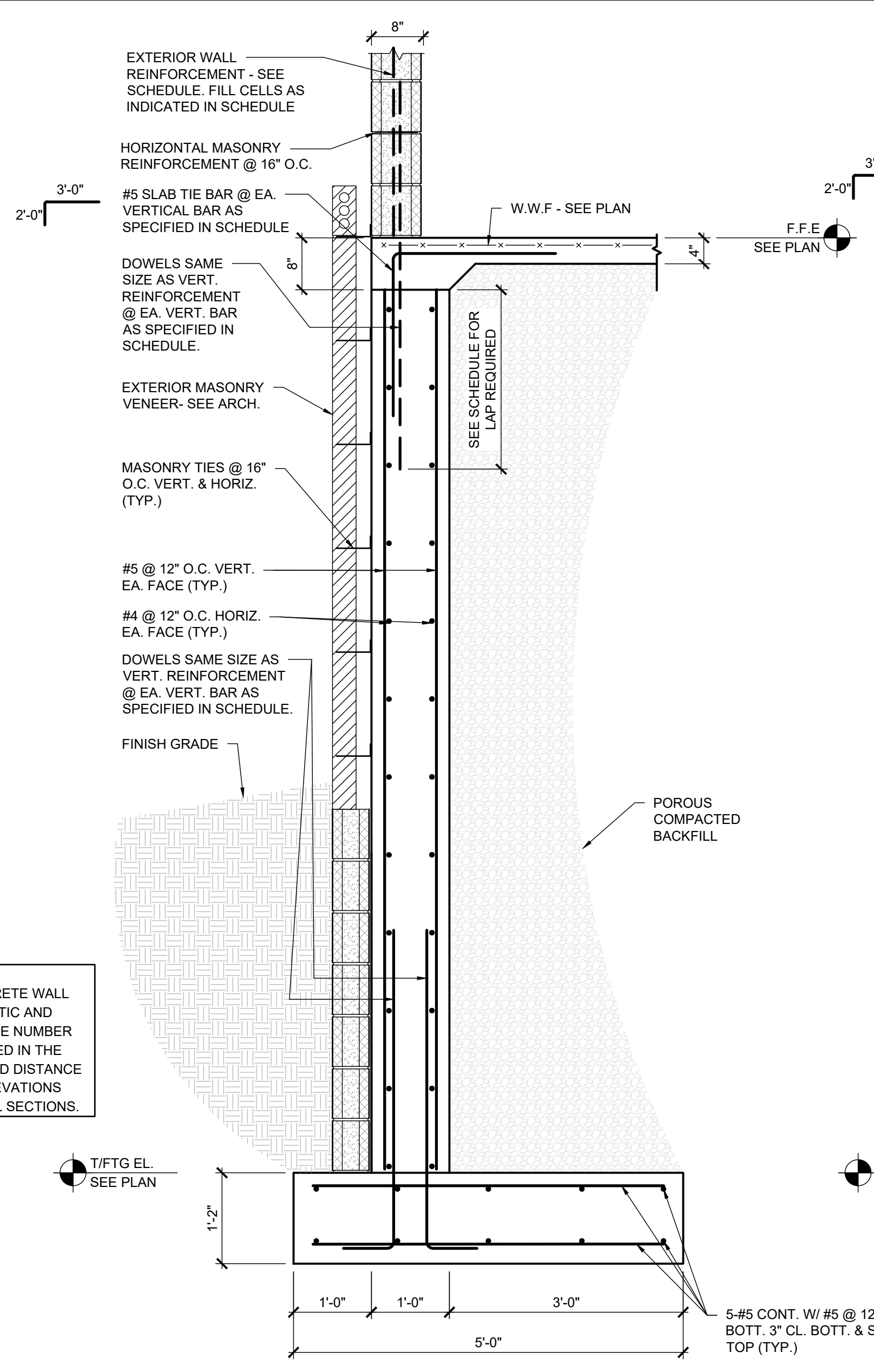
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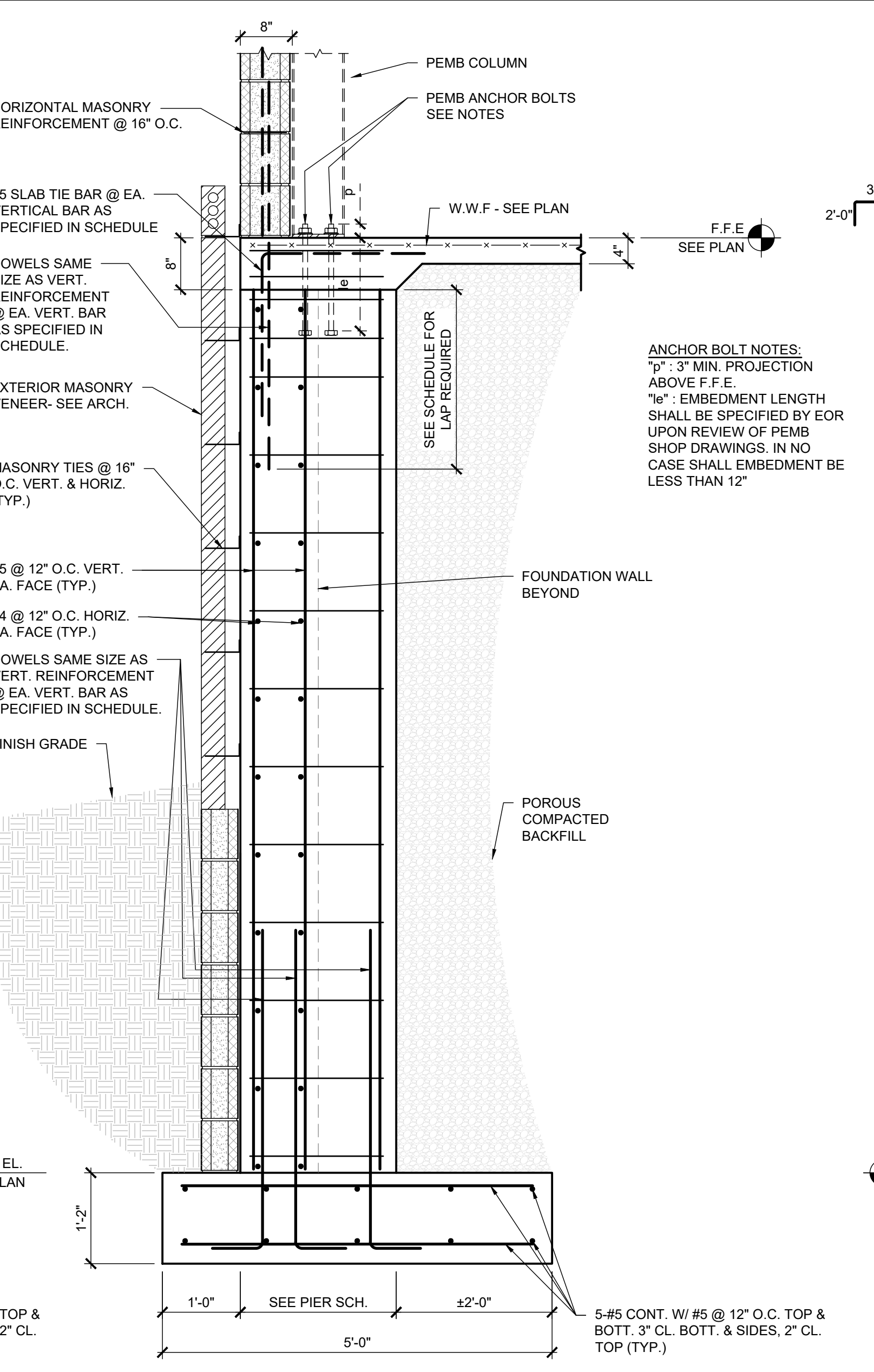
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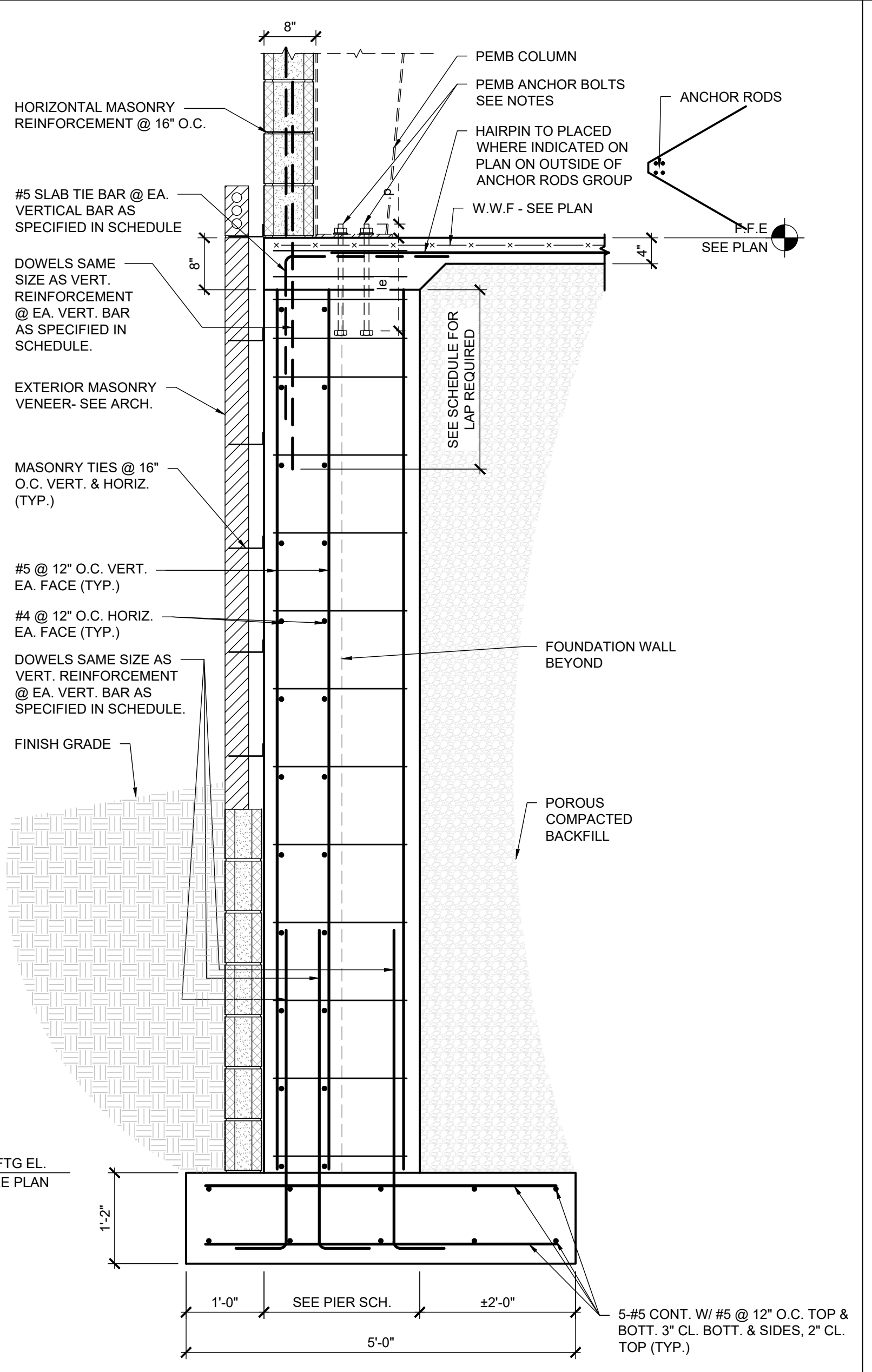
18 SECTION S3.2 SCALE: 3/4" = 1'-0"



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



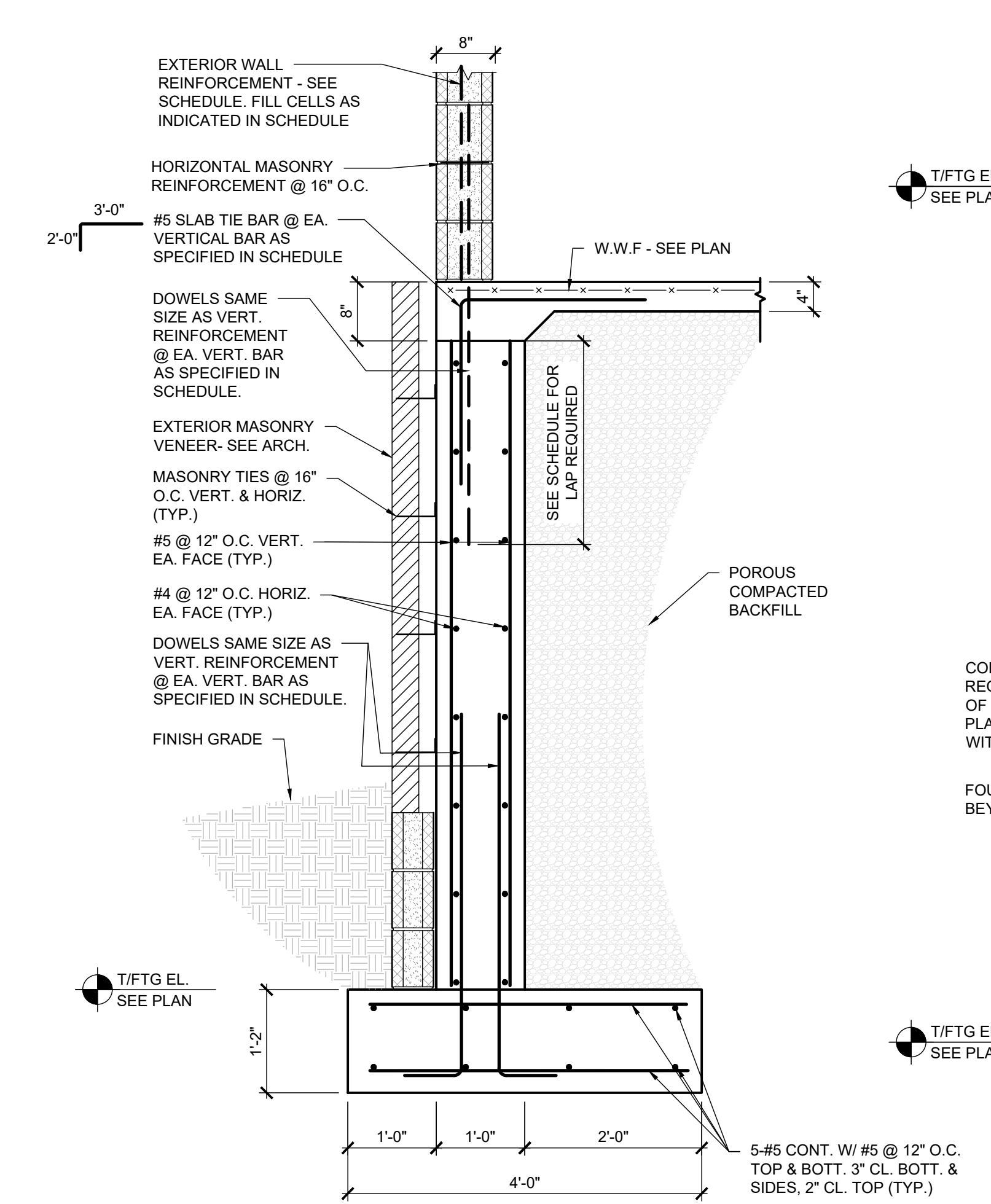
20 SECTION S3.2 SCALE: 3/4" = 1'-0"



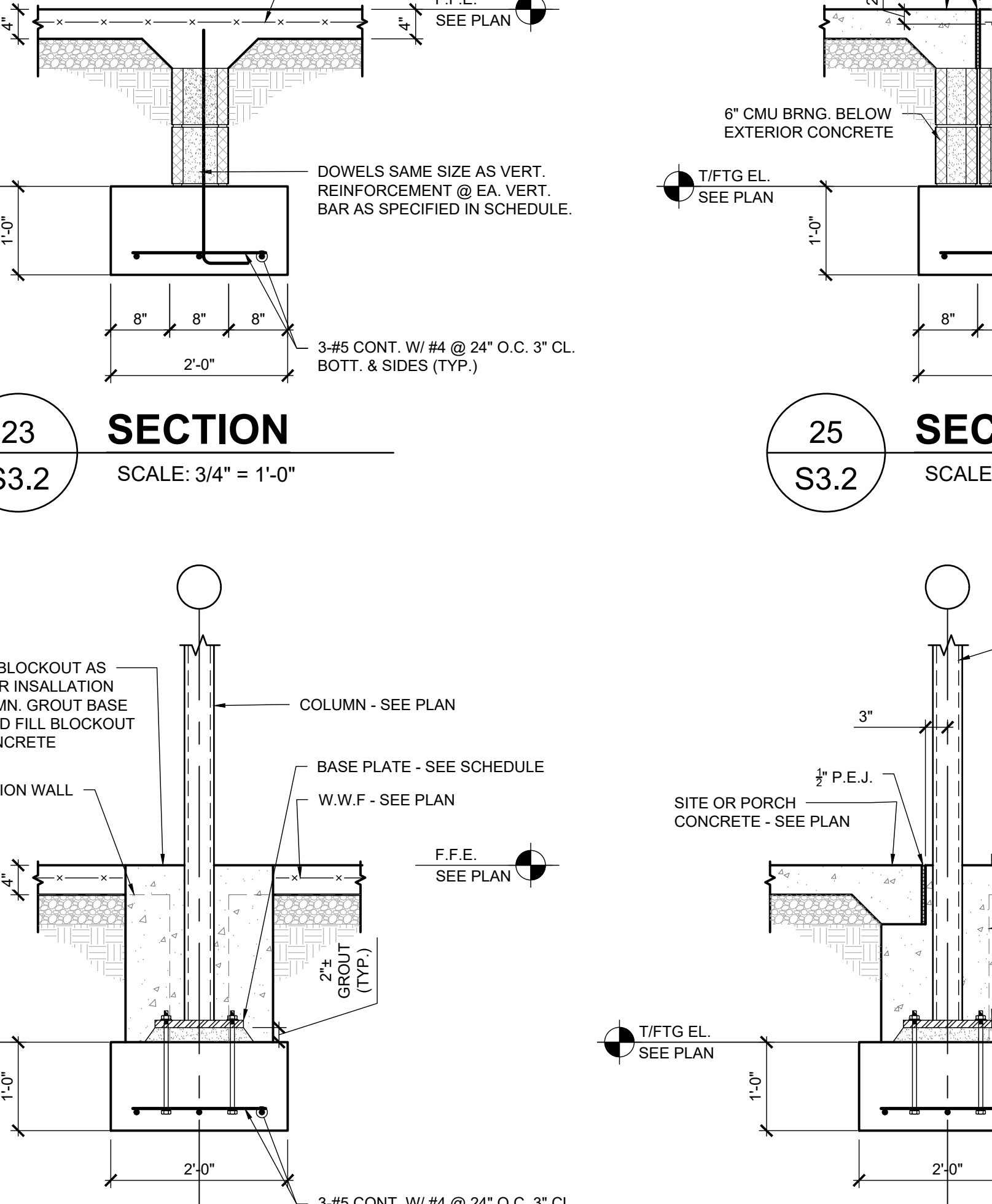
21 SECTION S3.2 SCALE: 3/4" = 1'-0"

ANCHOR BOLT NOTES:  
7\"/>

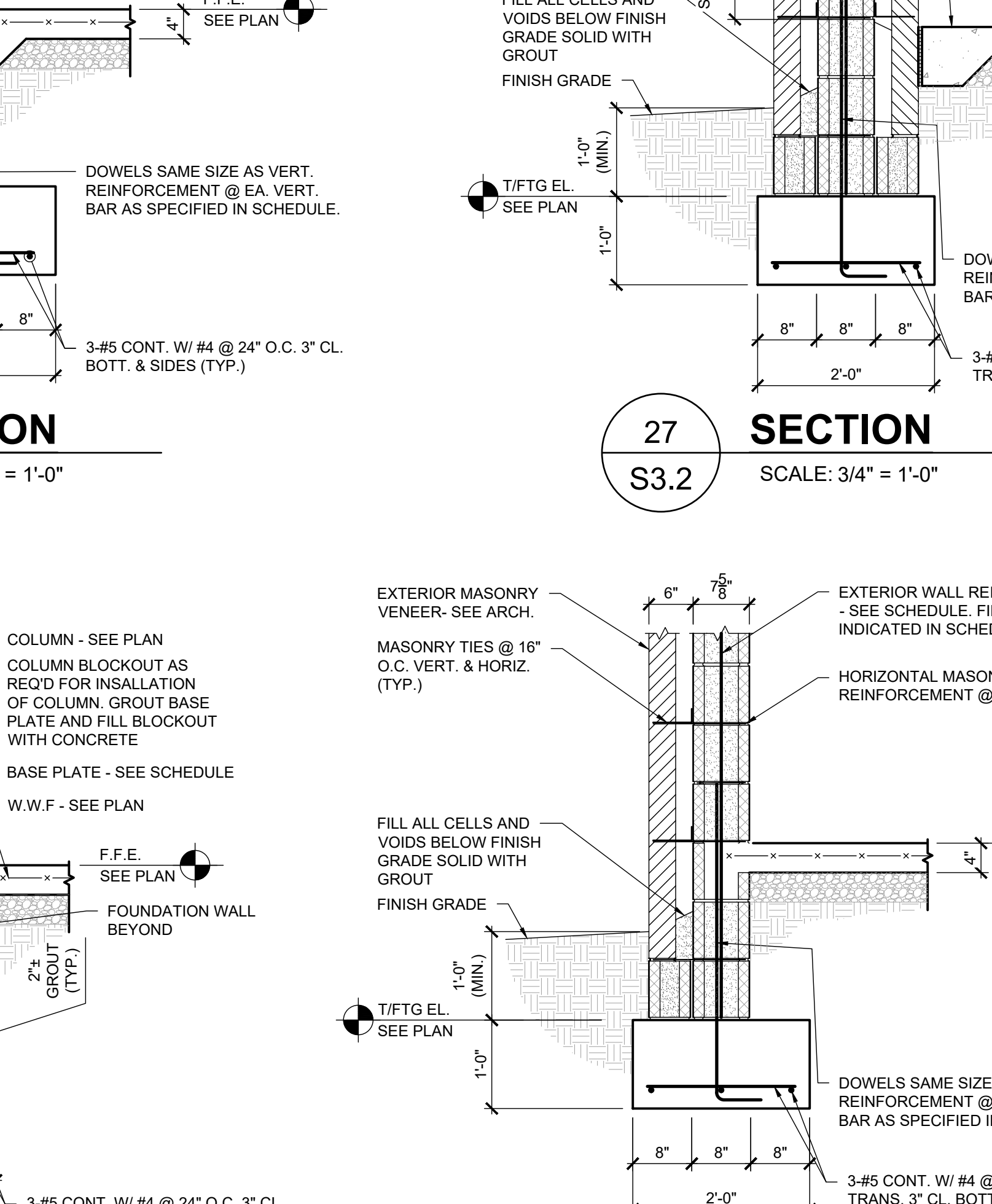
NOTE:  
THE NUMBER OF CMU COURSES / CONCRETE WALL HEIGHT SHOWN IN SECTIONS IS SCHEMATIC AND DOES NOT NECESSARILY REPRESENT THE NUMBER OF COURSES / HEIGHT OF WALL REQUIRED IN THE FIELD. COORDINATE HEIGHT OF WALL AND DISTANCE FROM FFE TO TOP OF FOOTING WITH ELEVATIONS SHOWN ON THE PLANS. TYPICAL FOR ALL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



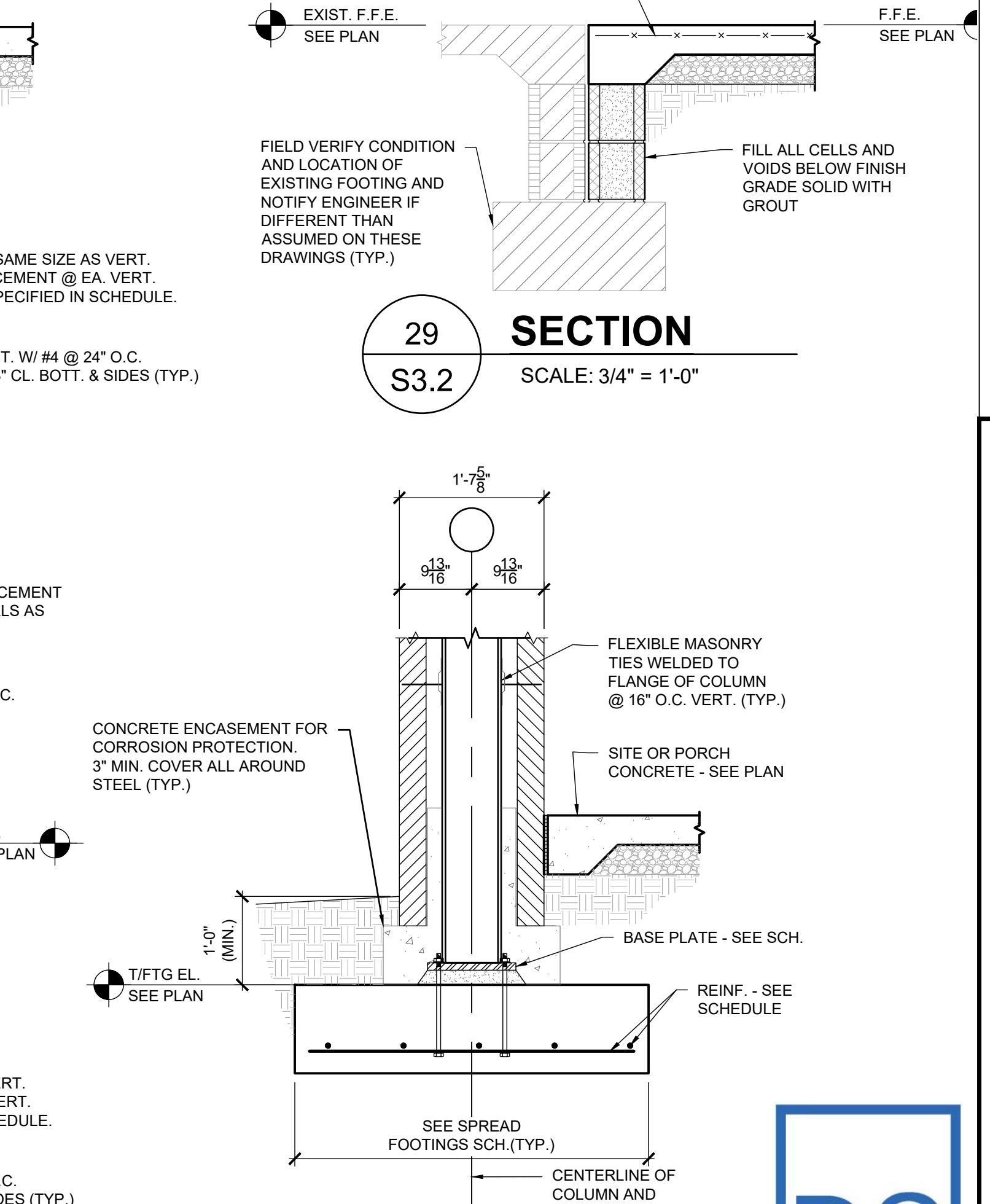
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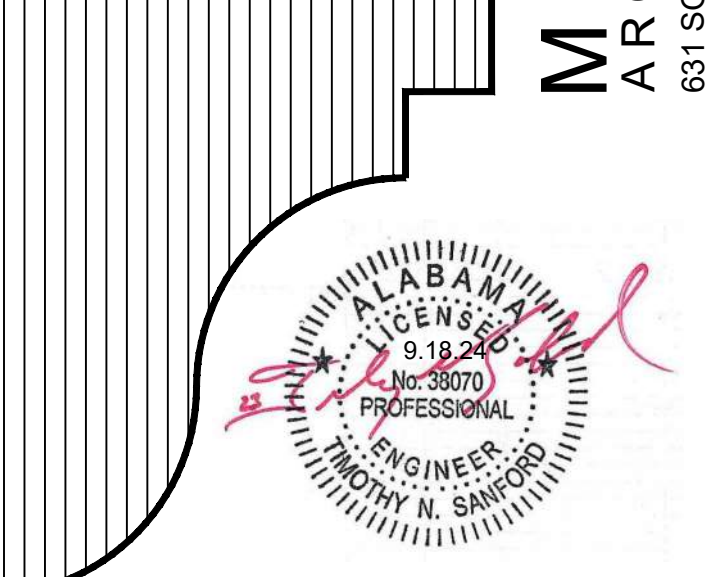
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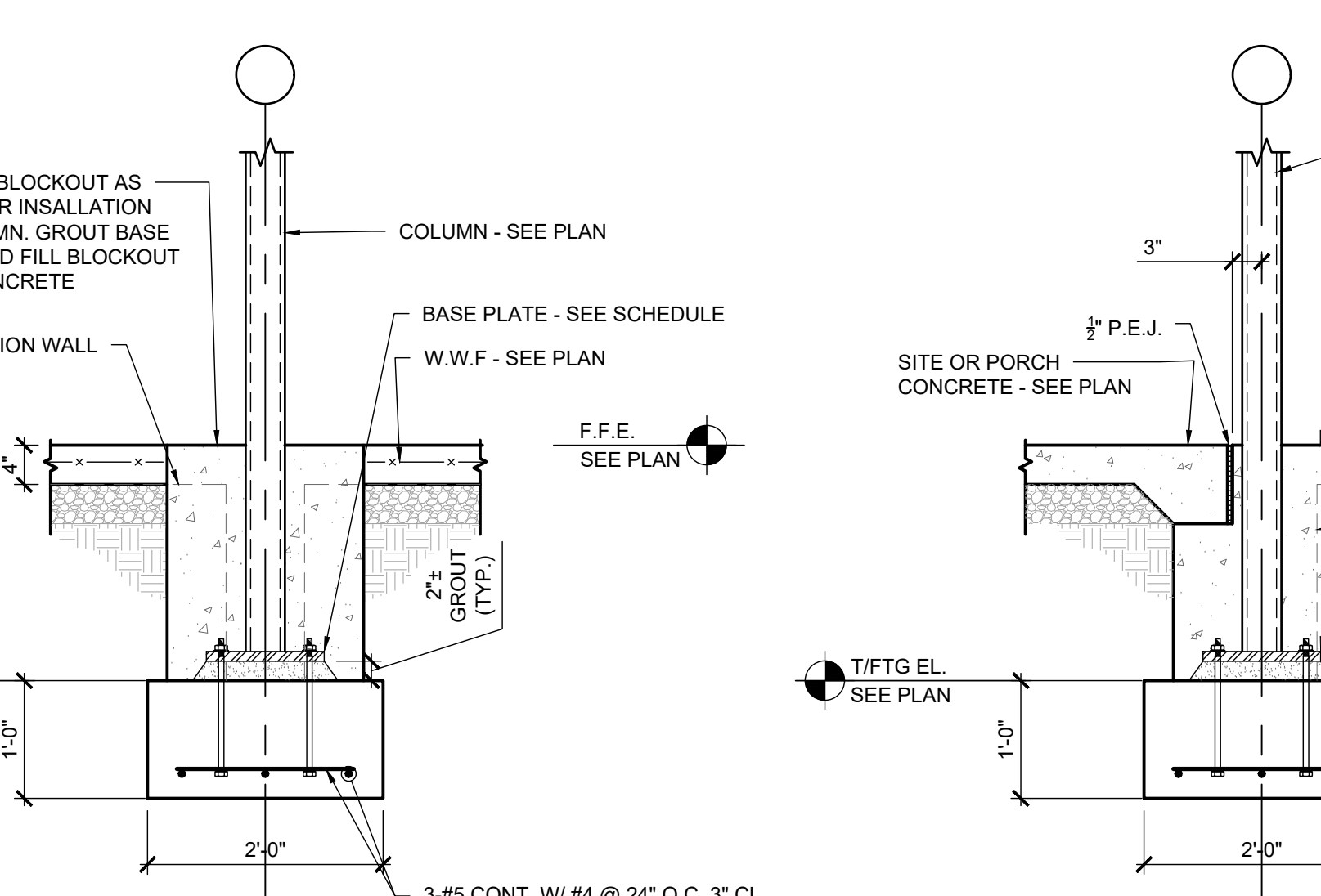
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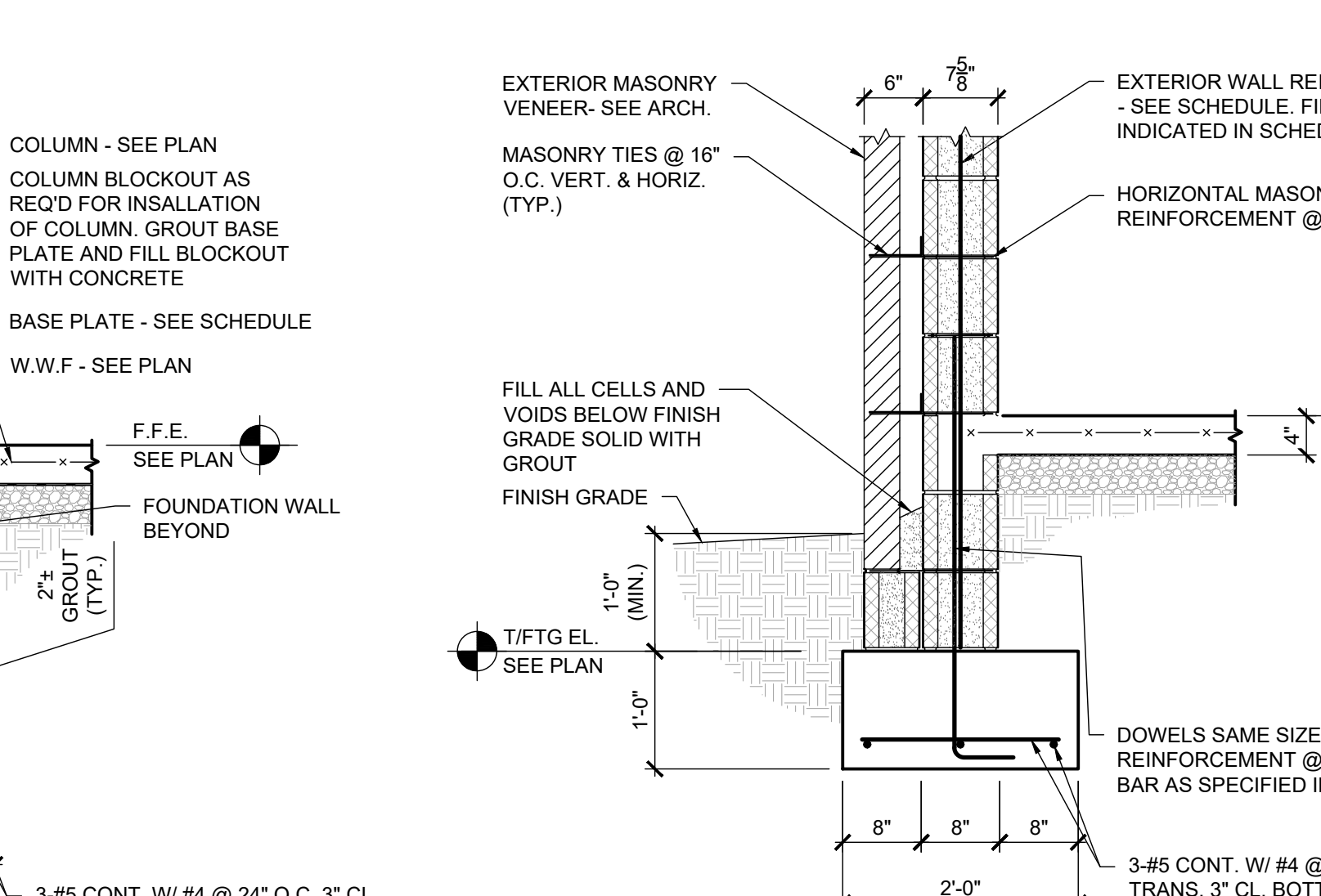
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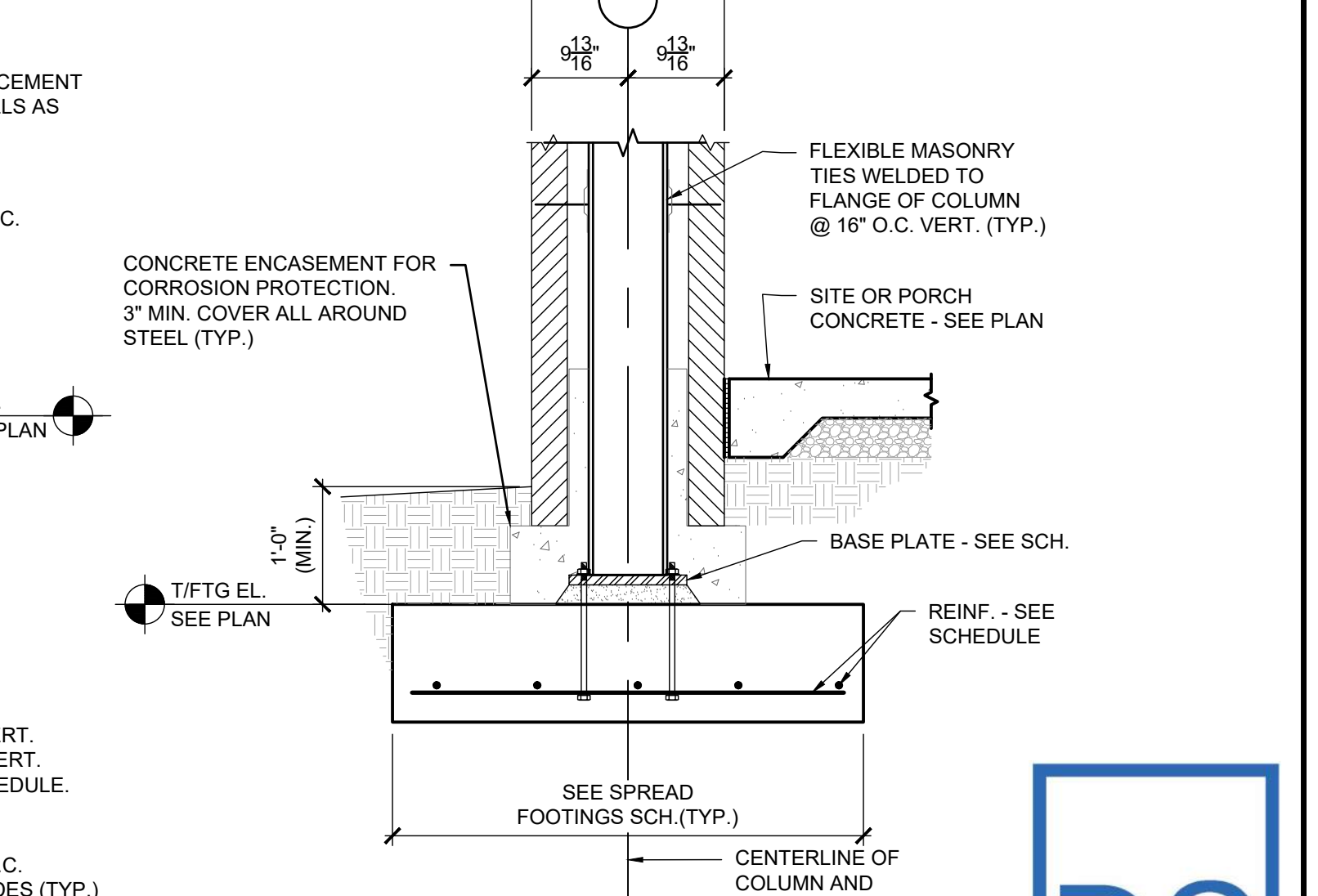
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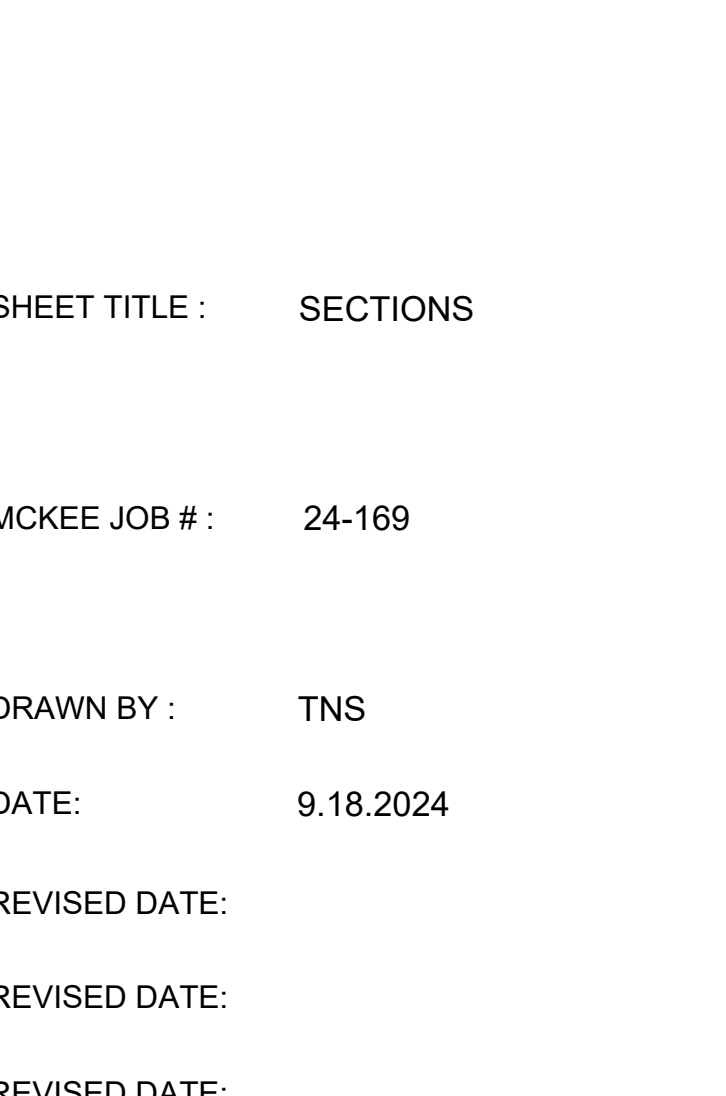
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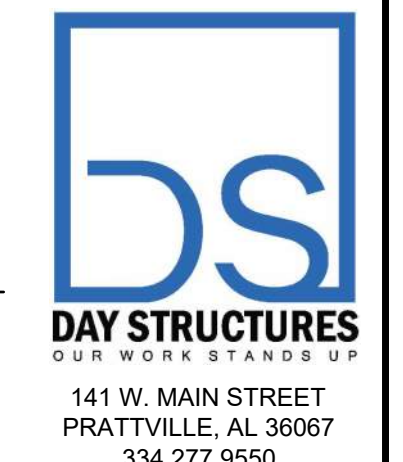


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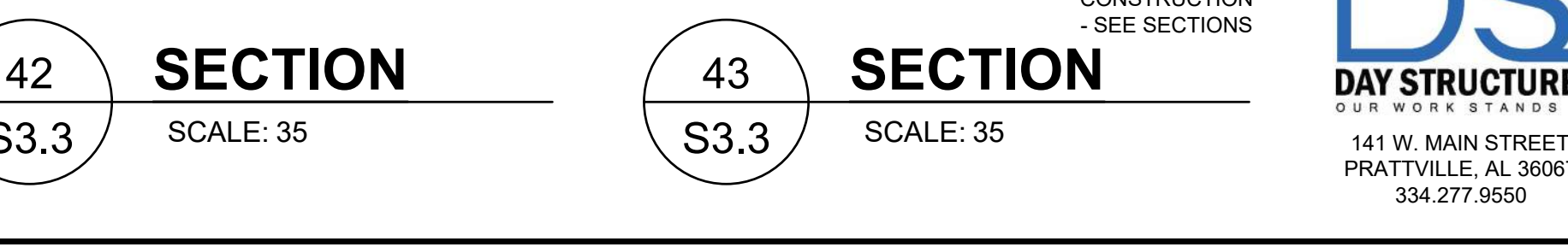
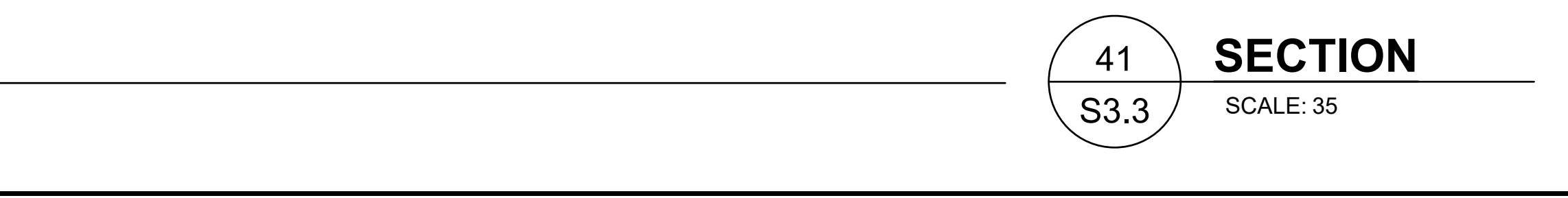
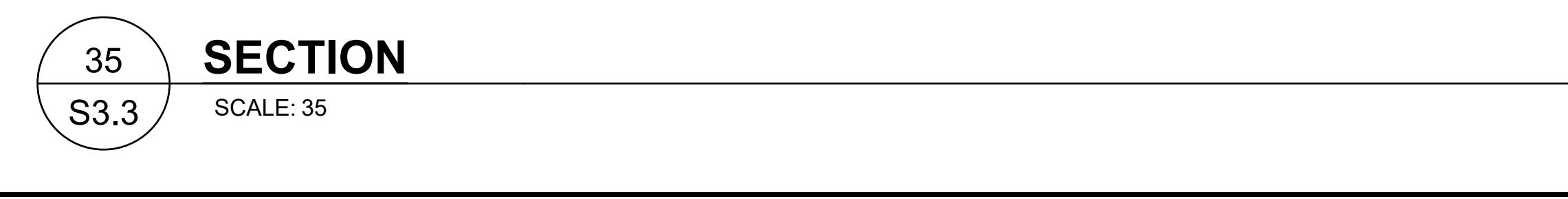
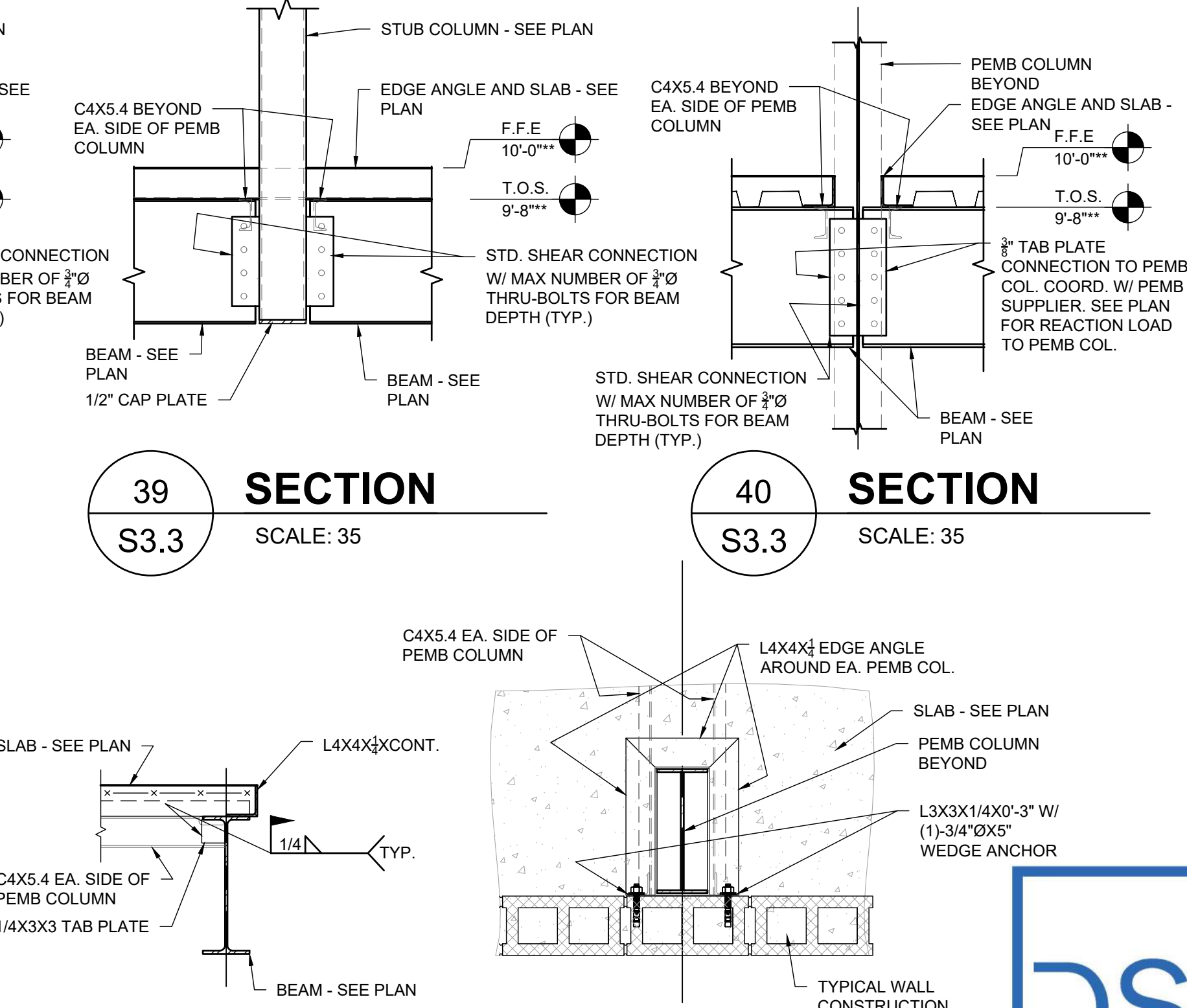
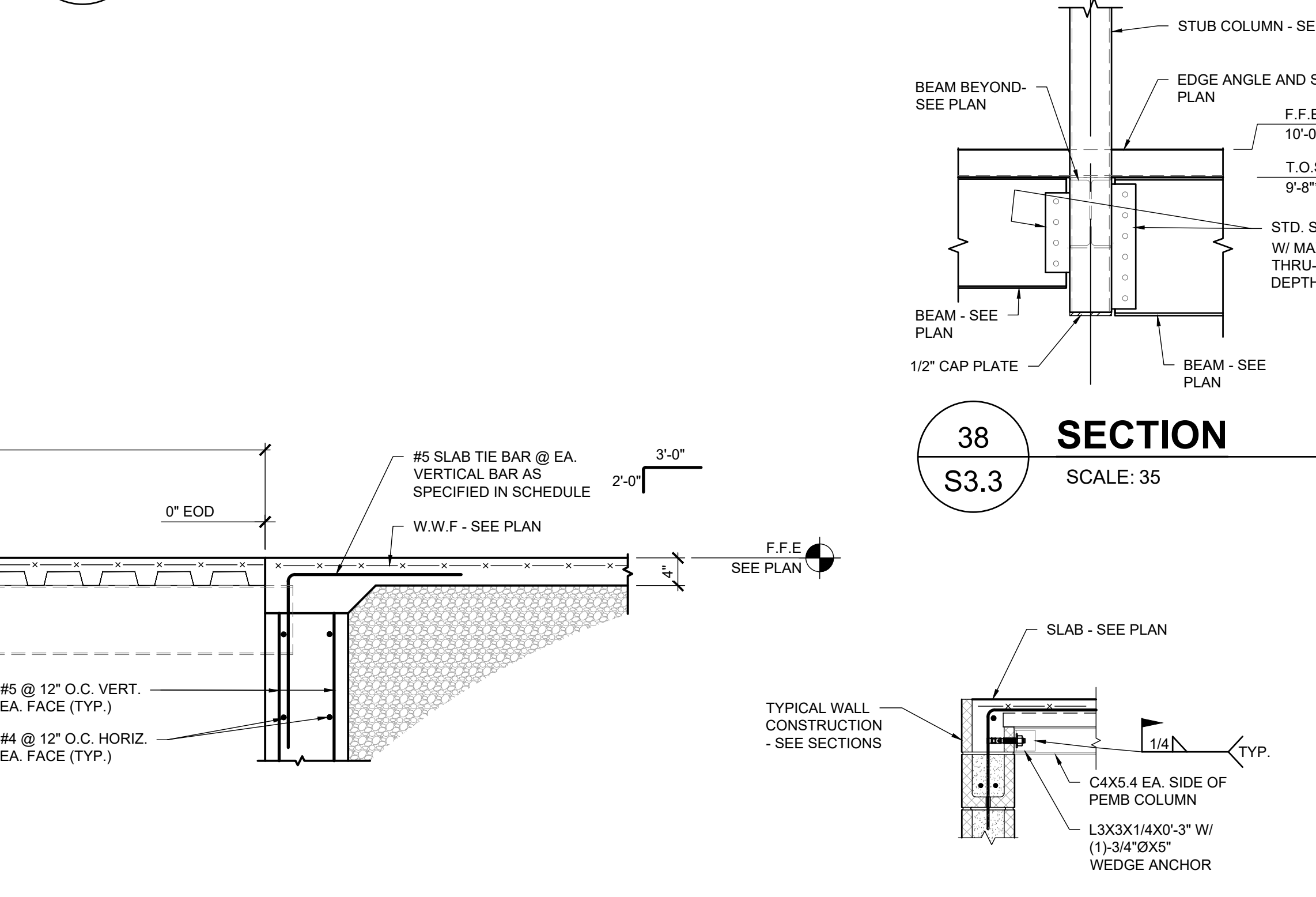
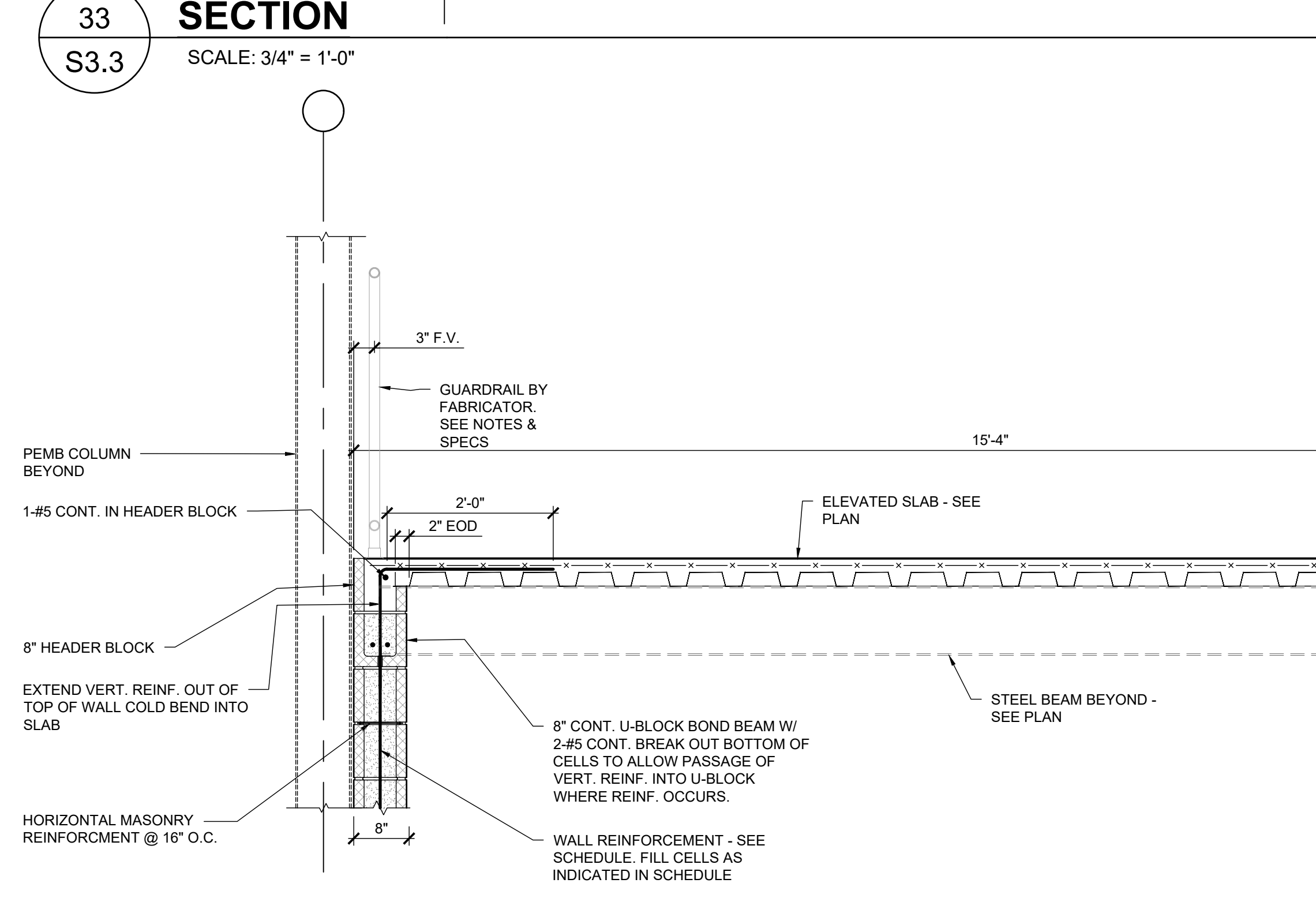
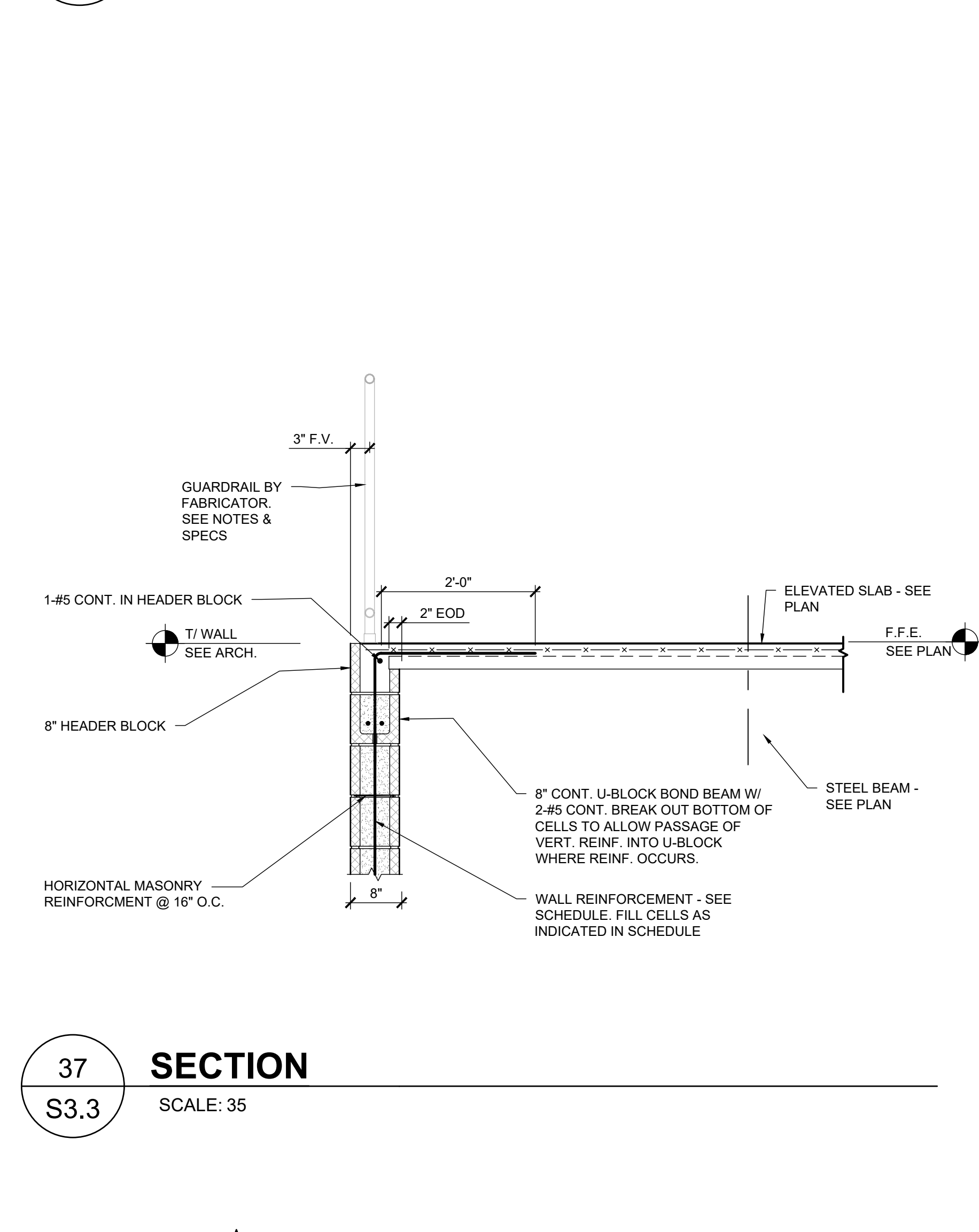
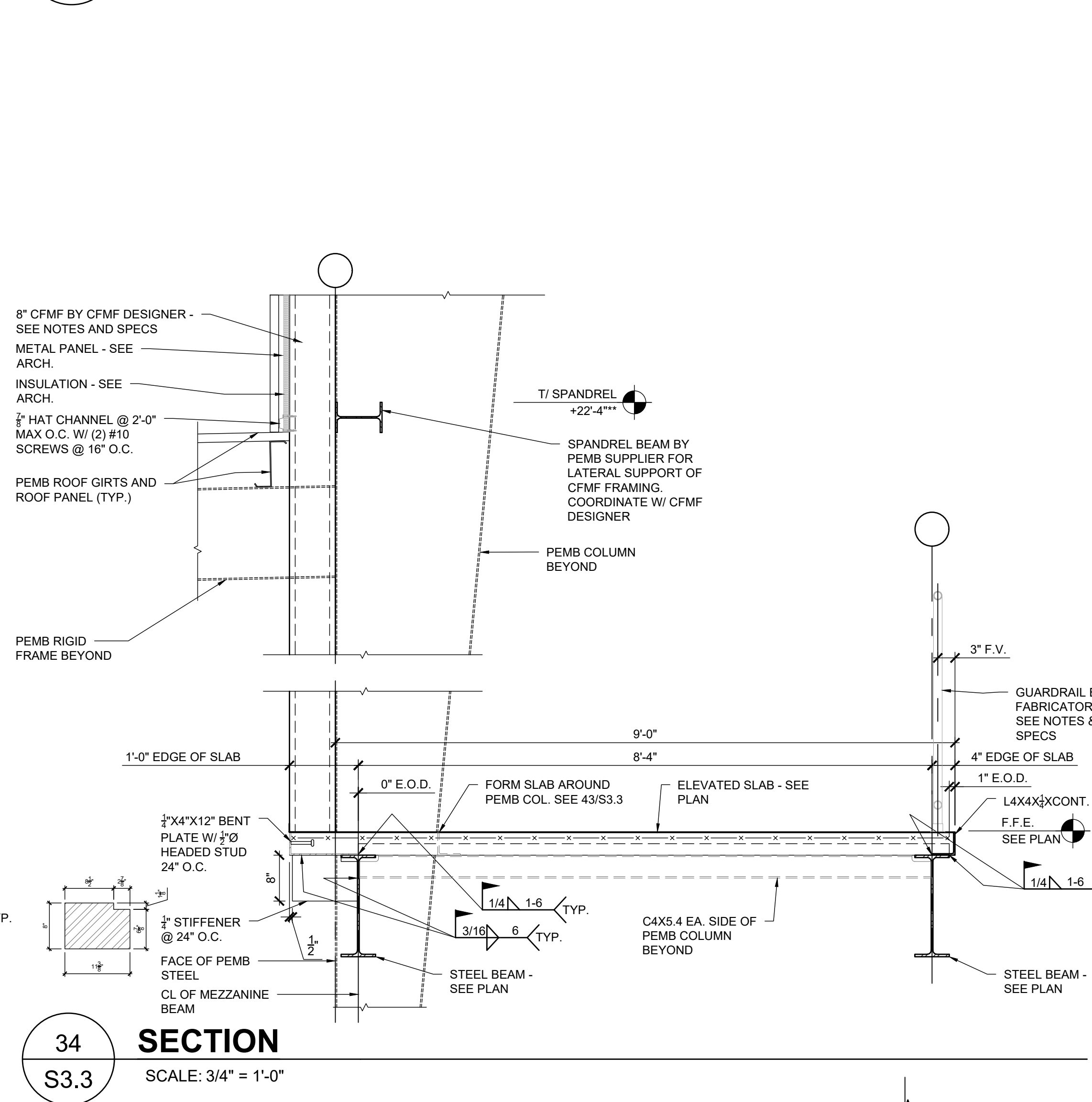
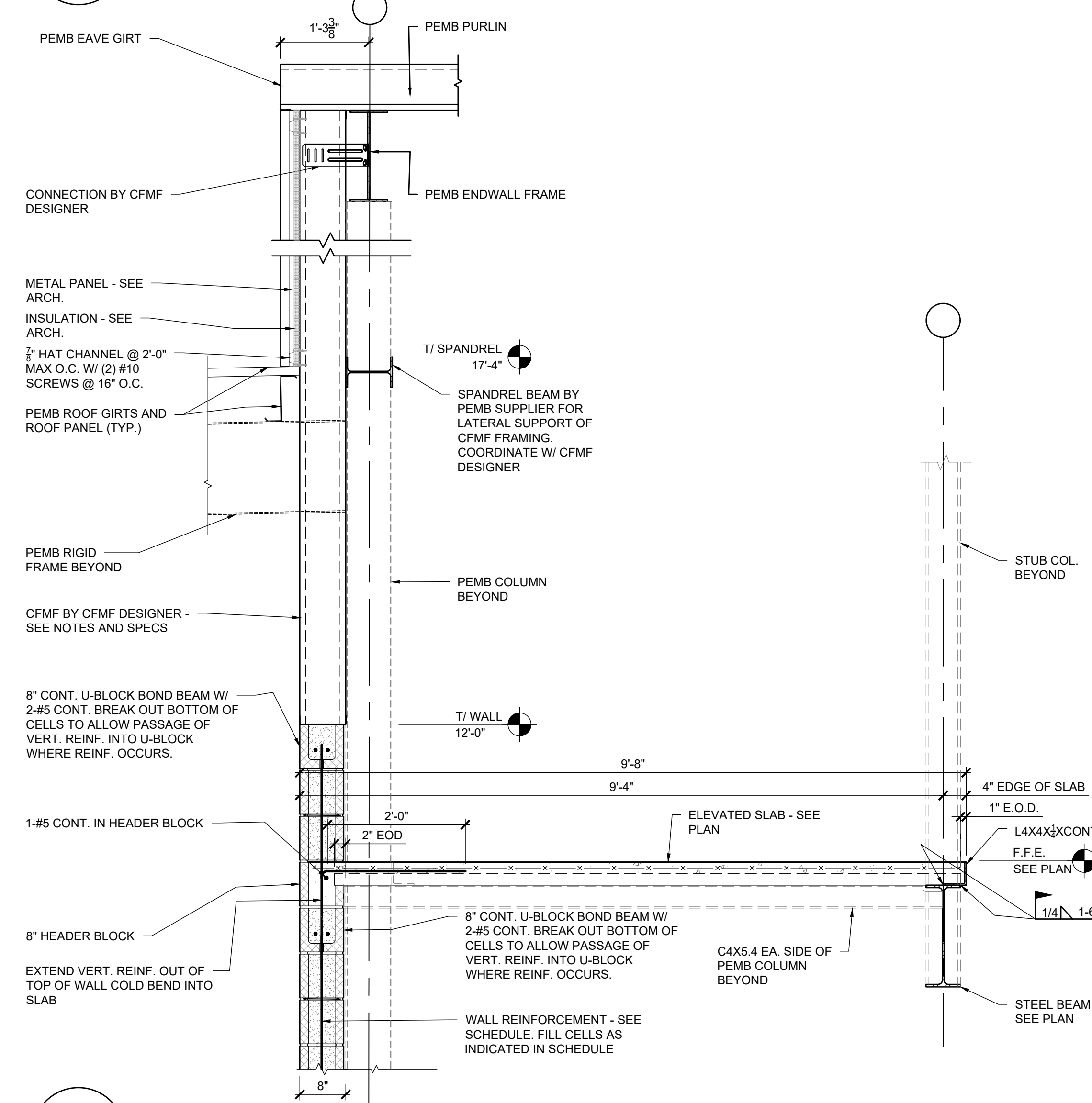
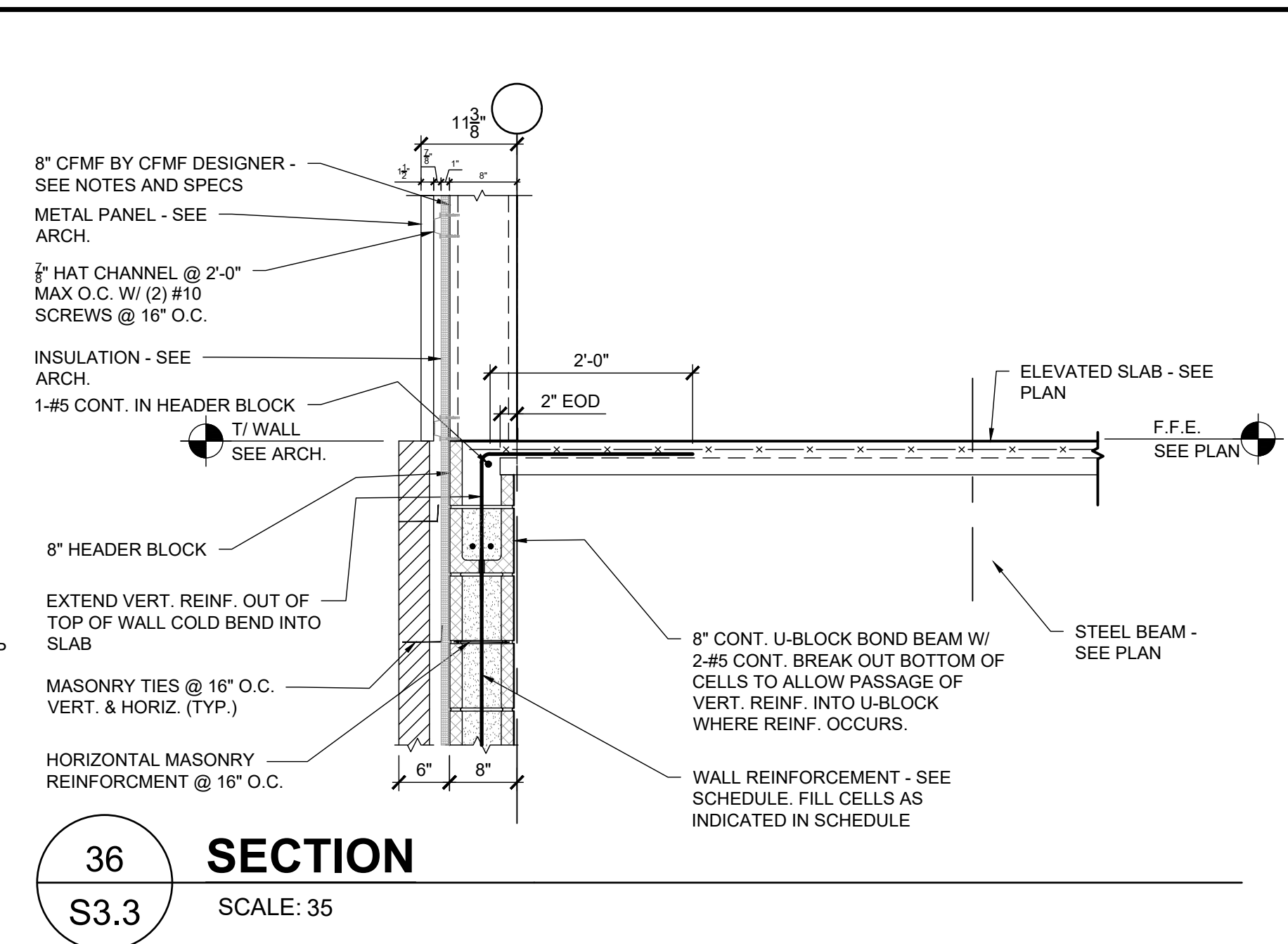
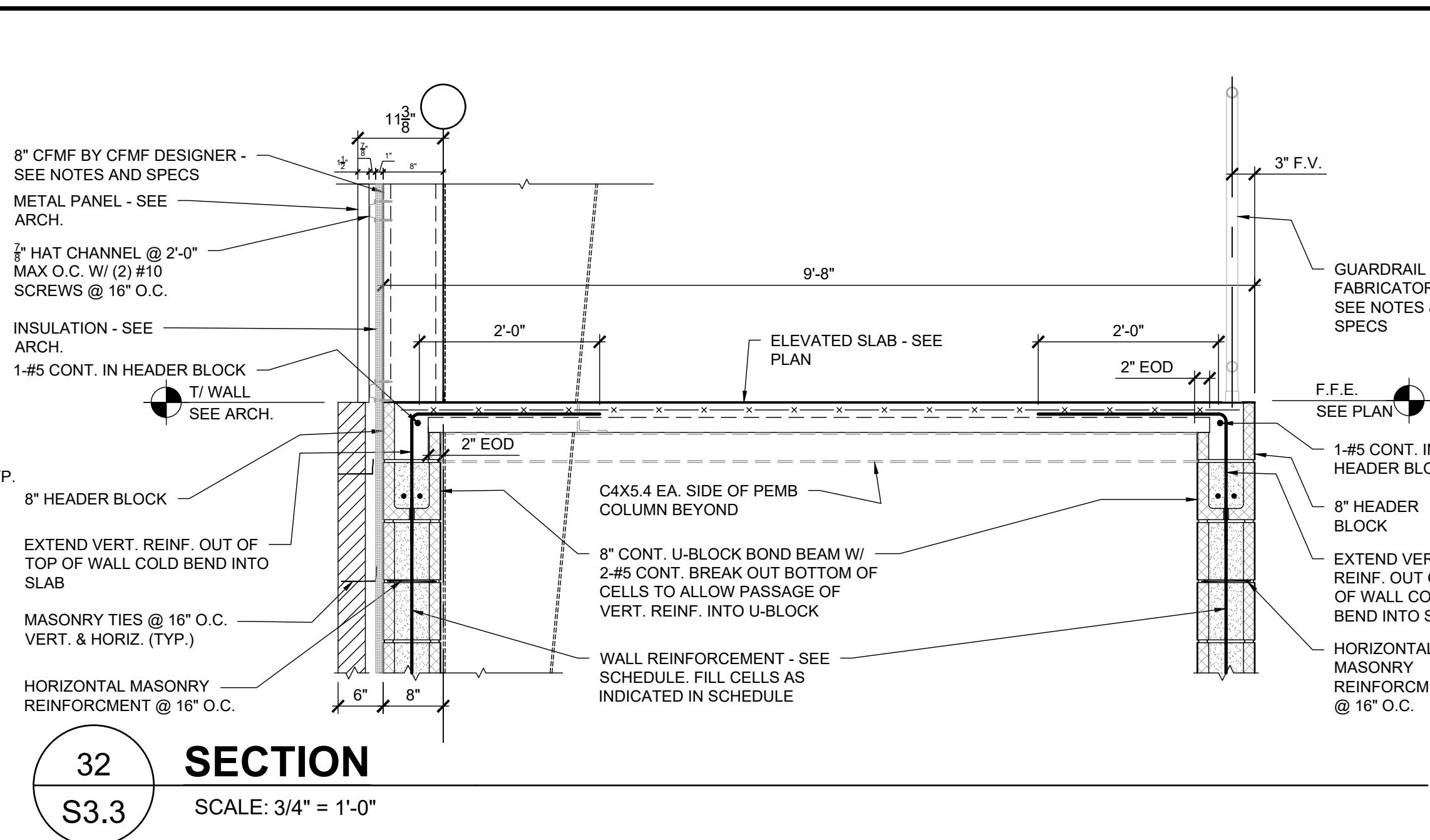
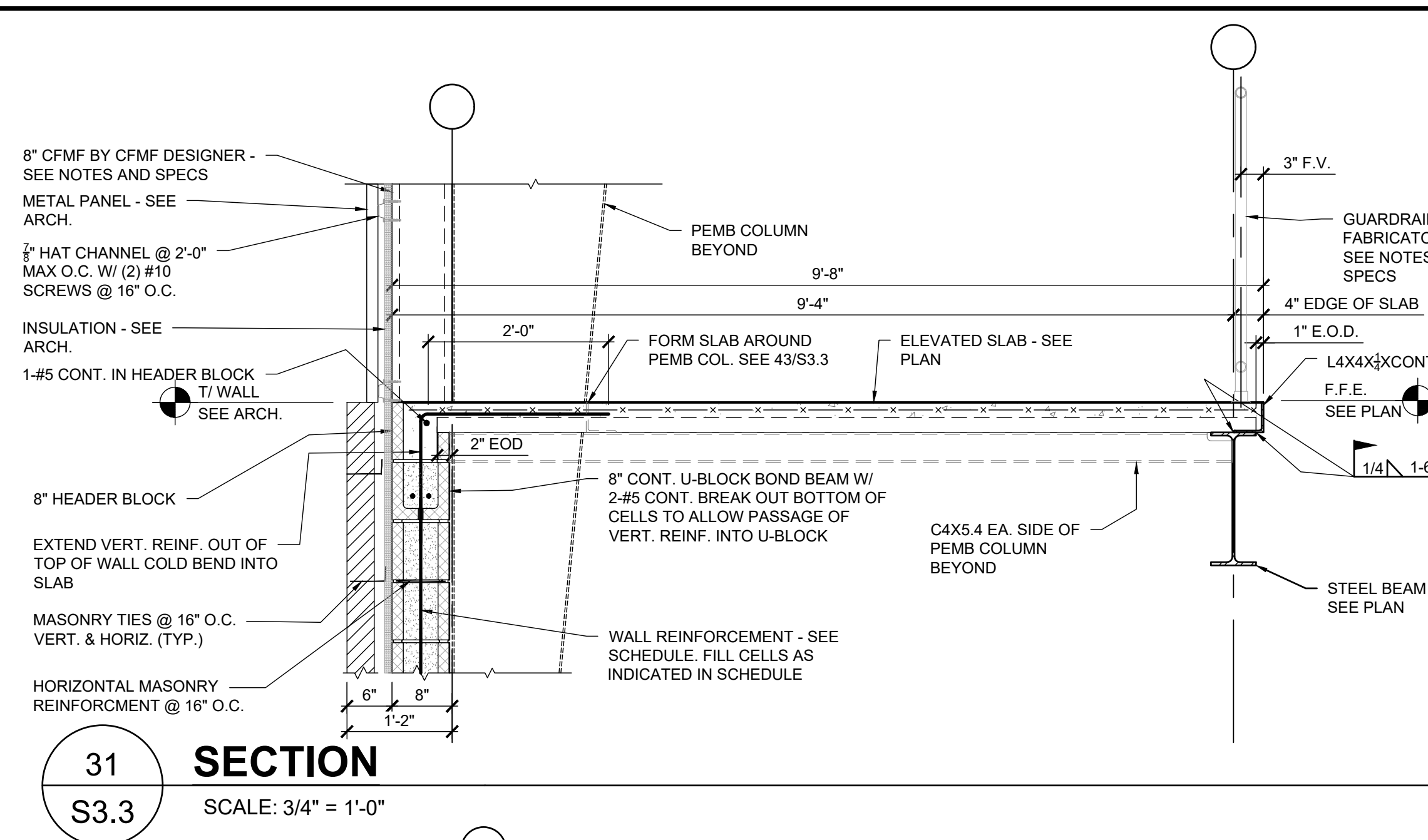


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SHEET TITLE : SECTIONS  
MCKEE JOB # : 24-169  
DRAWN BY : TNS  
DATE : 9.18.2024  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : S3.2







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 FOR THE  
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 ONEONTA, ALABAMA

**McKee and Associates**  
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 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-8933

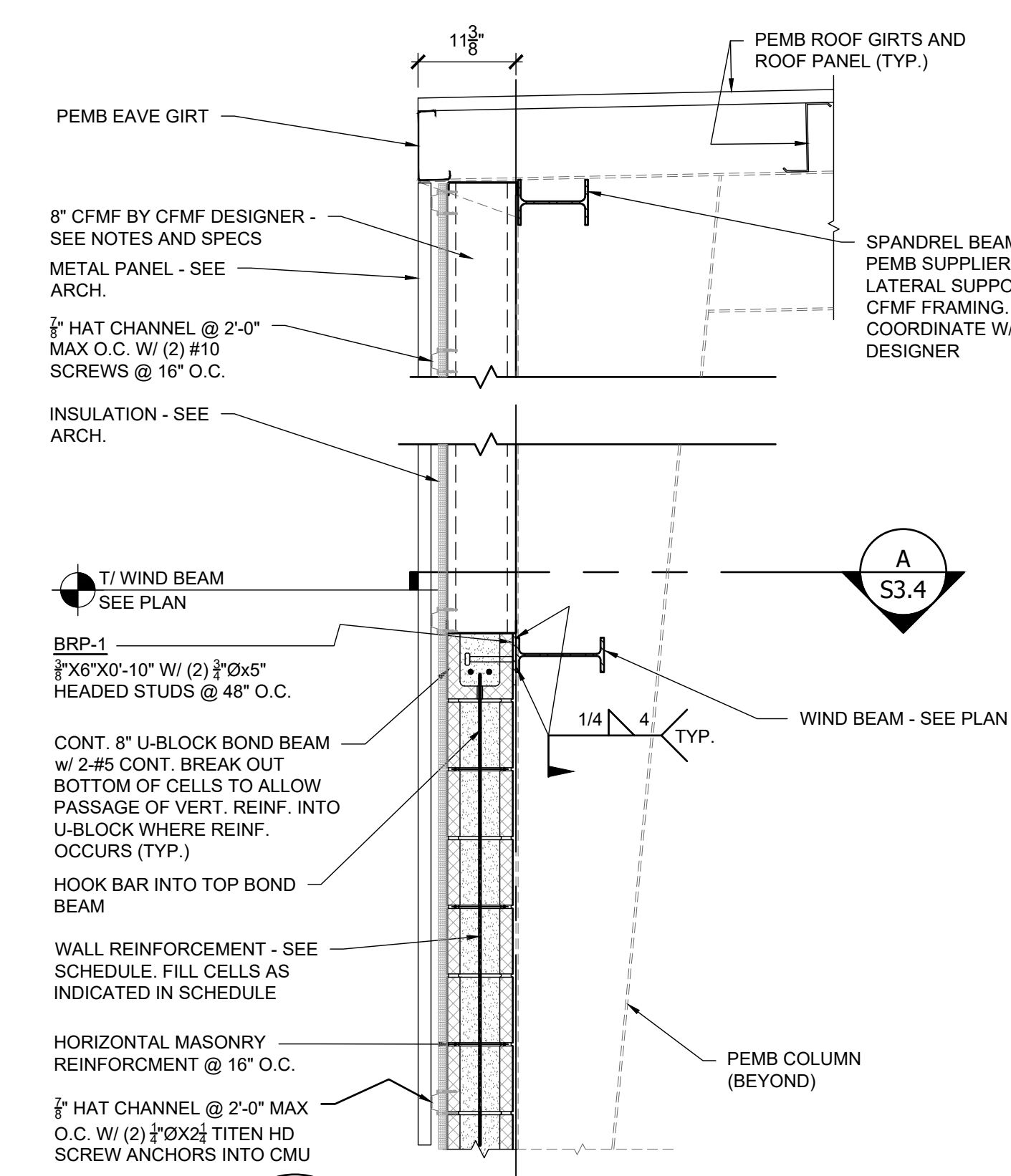


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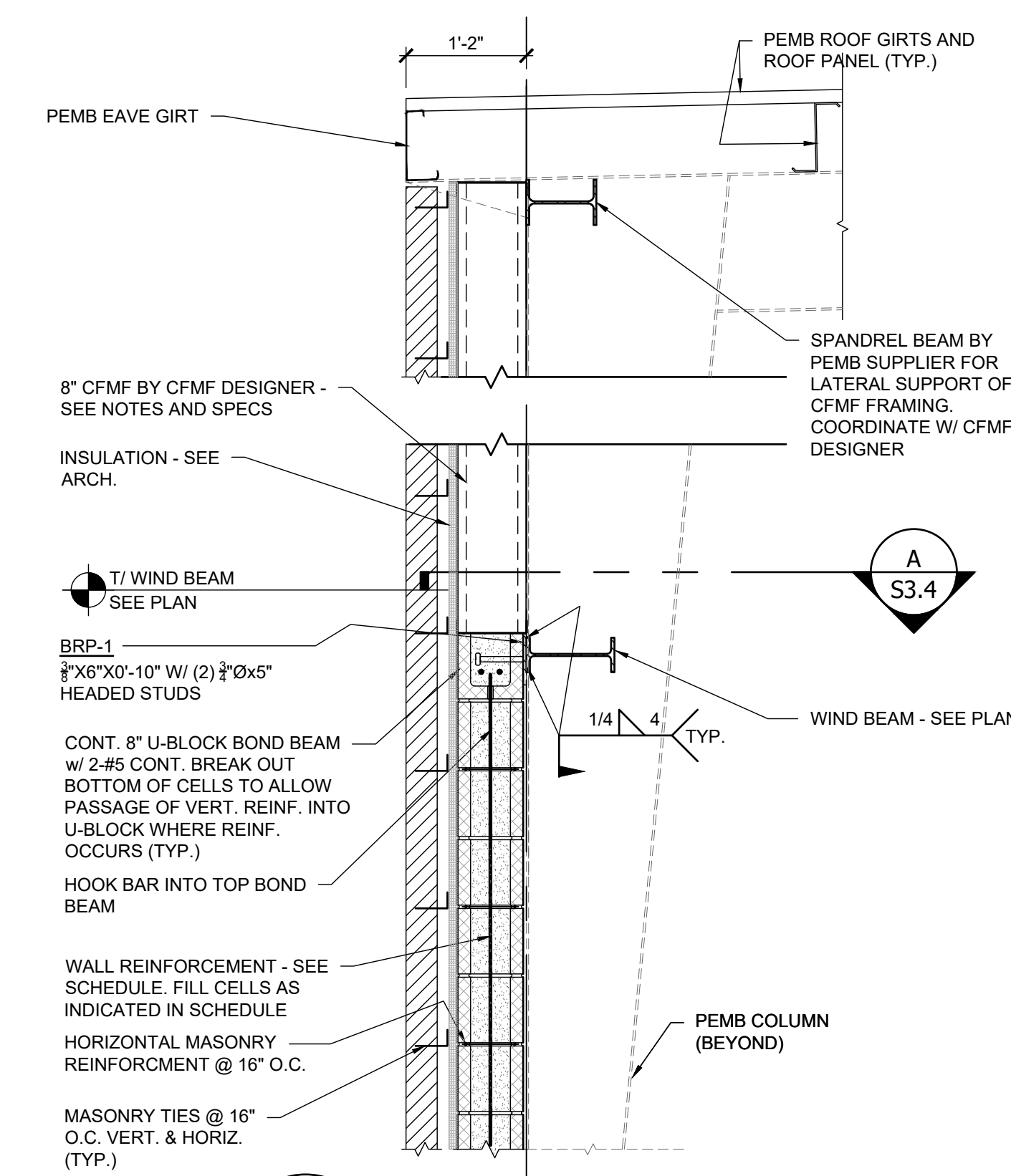
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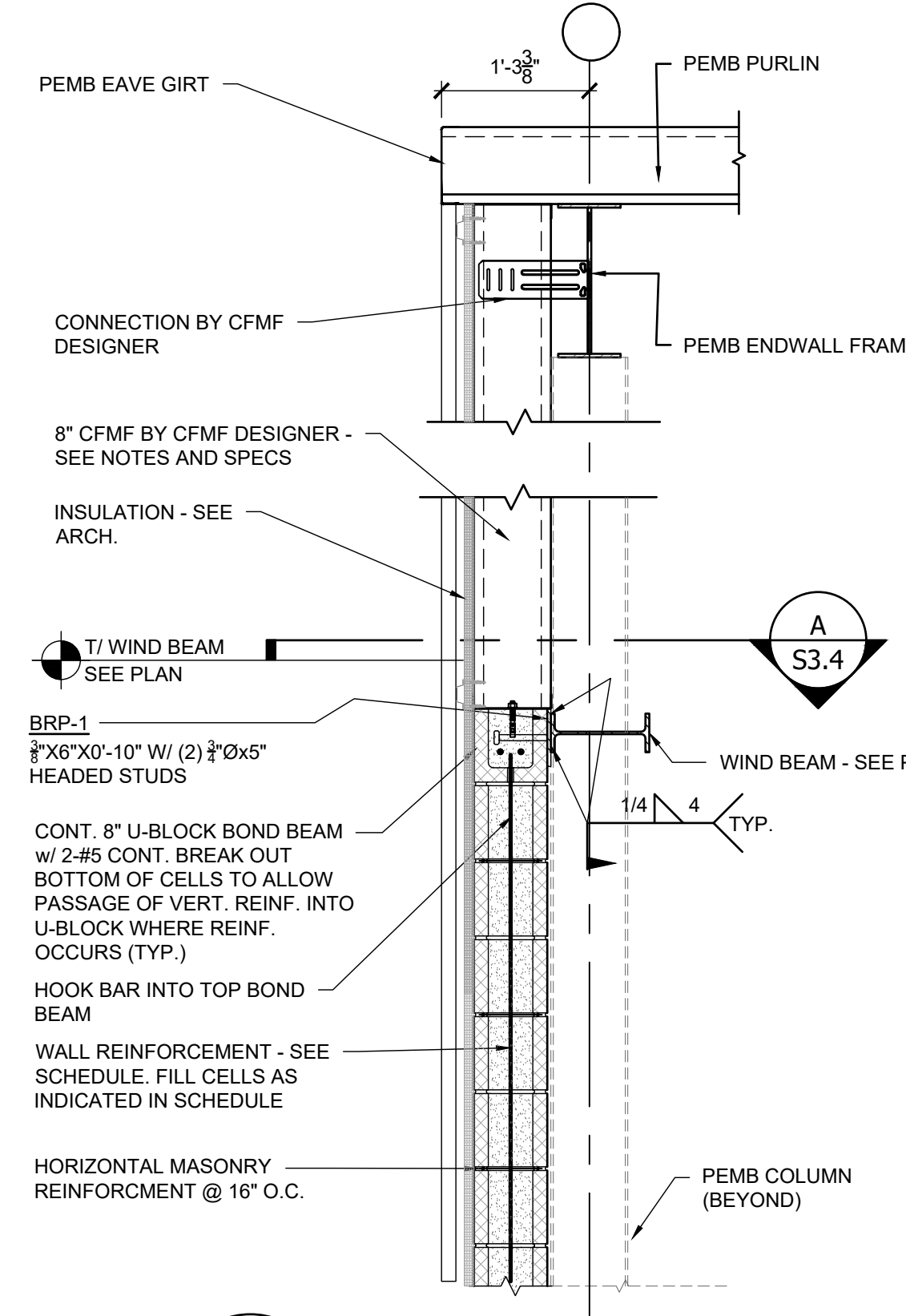




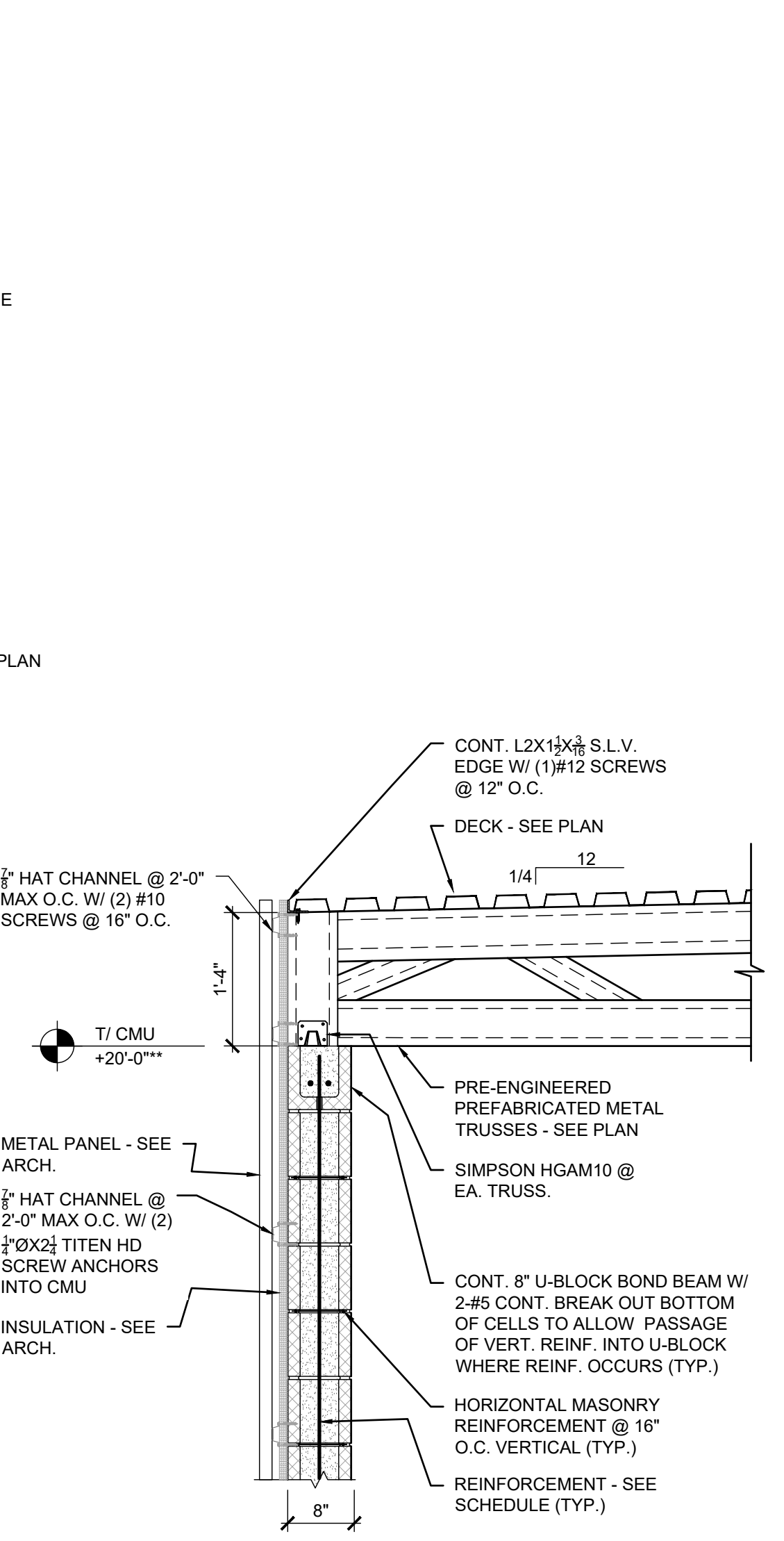
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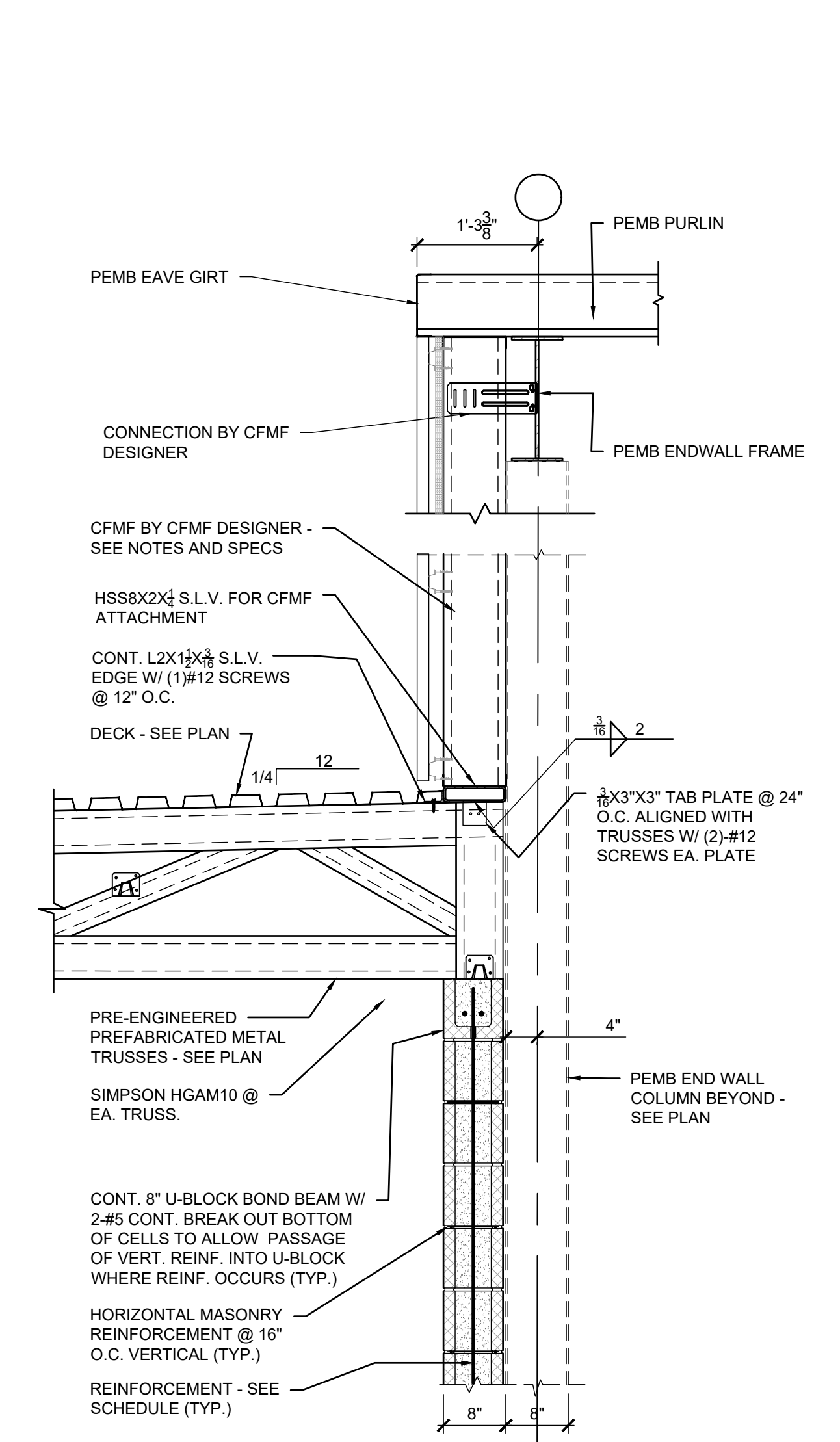
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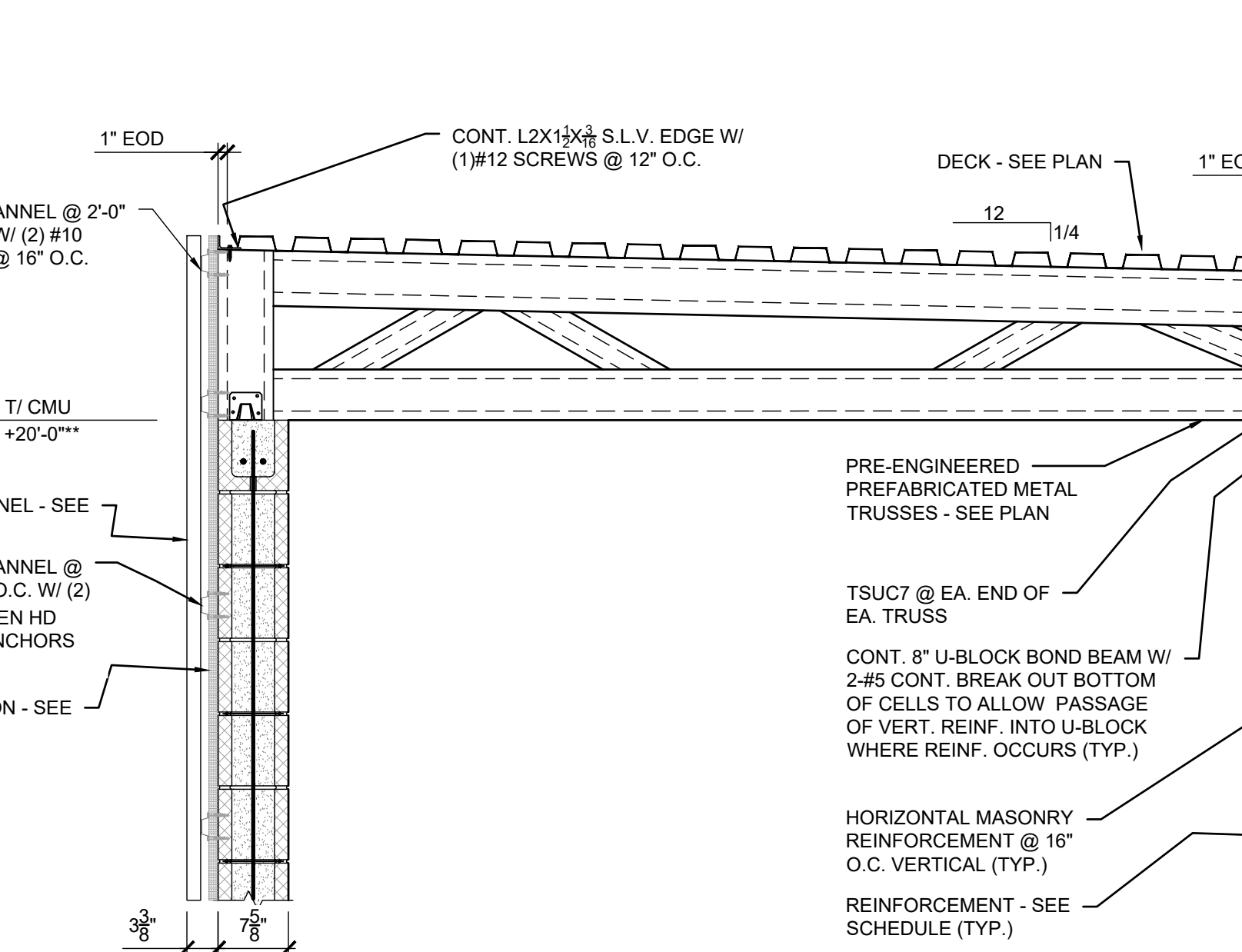


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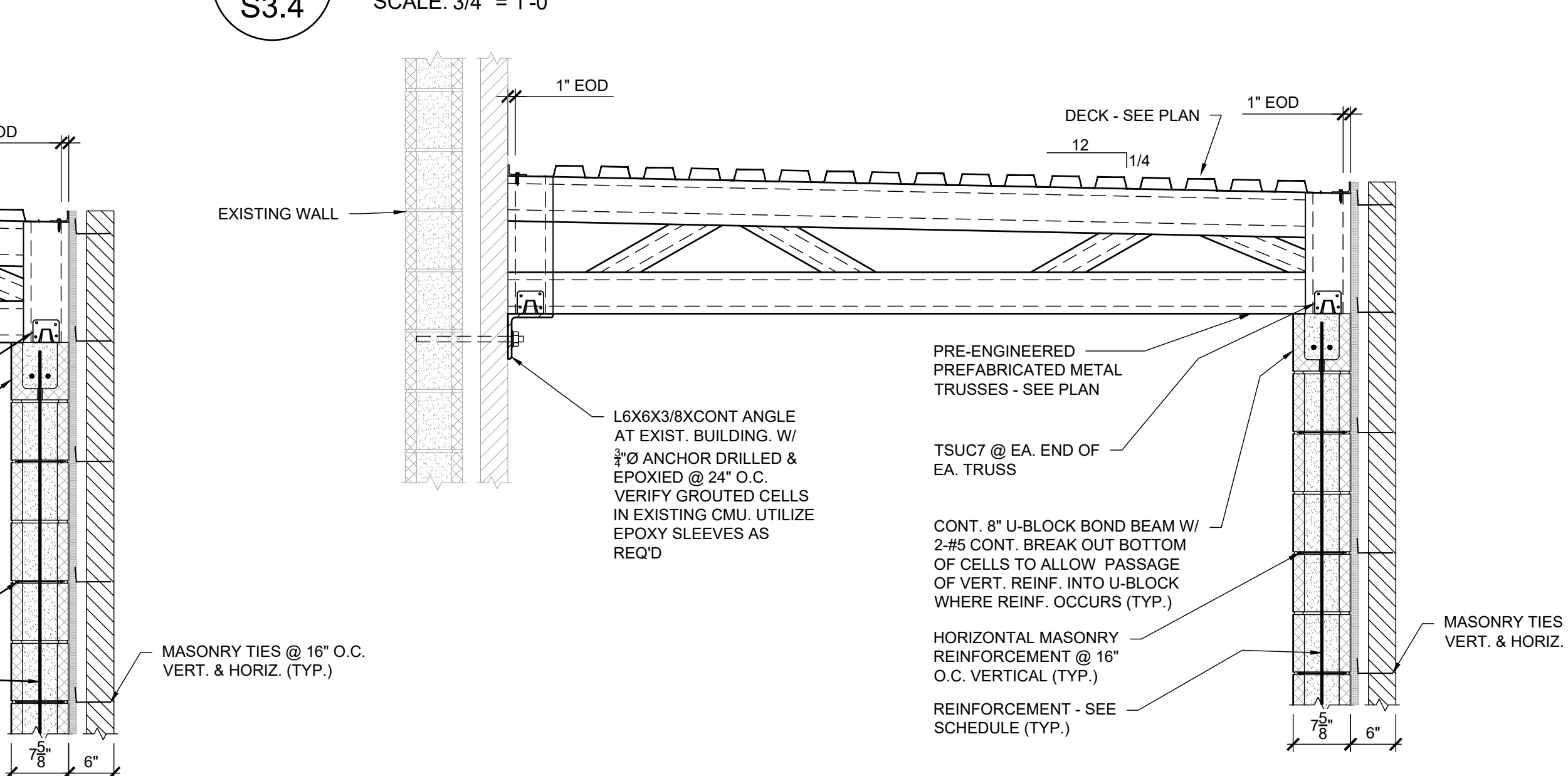


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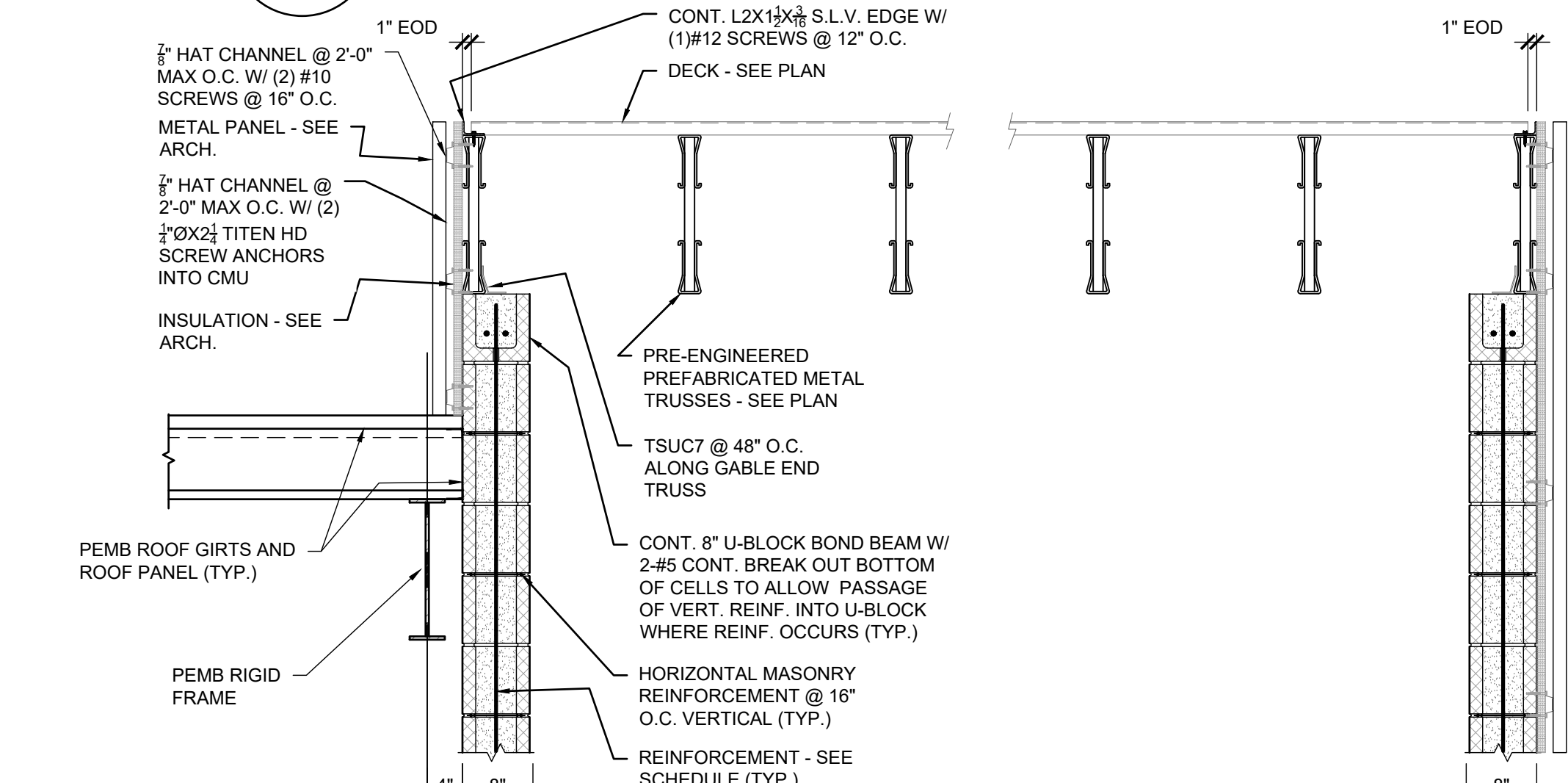
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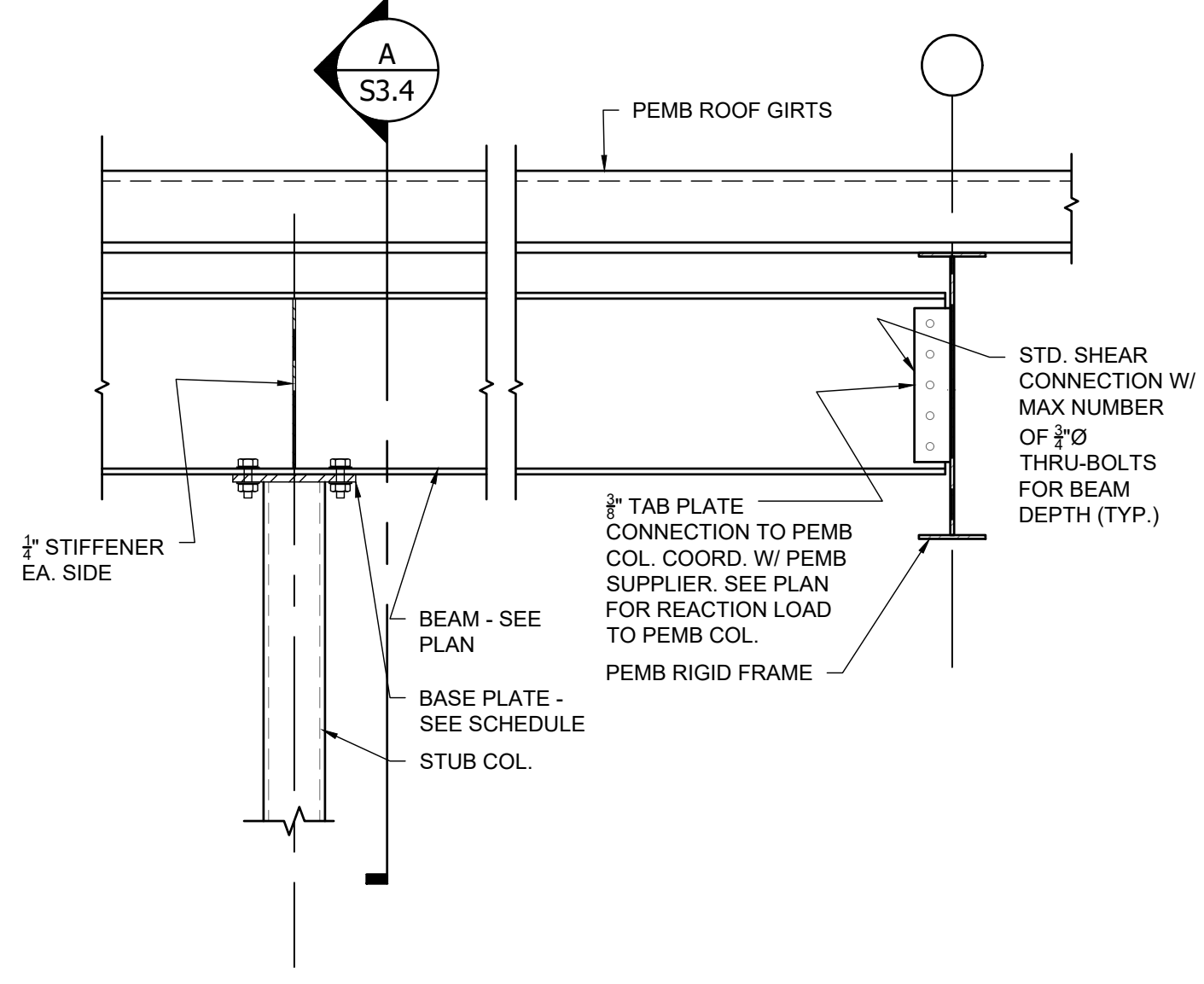
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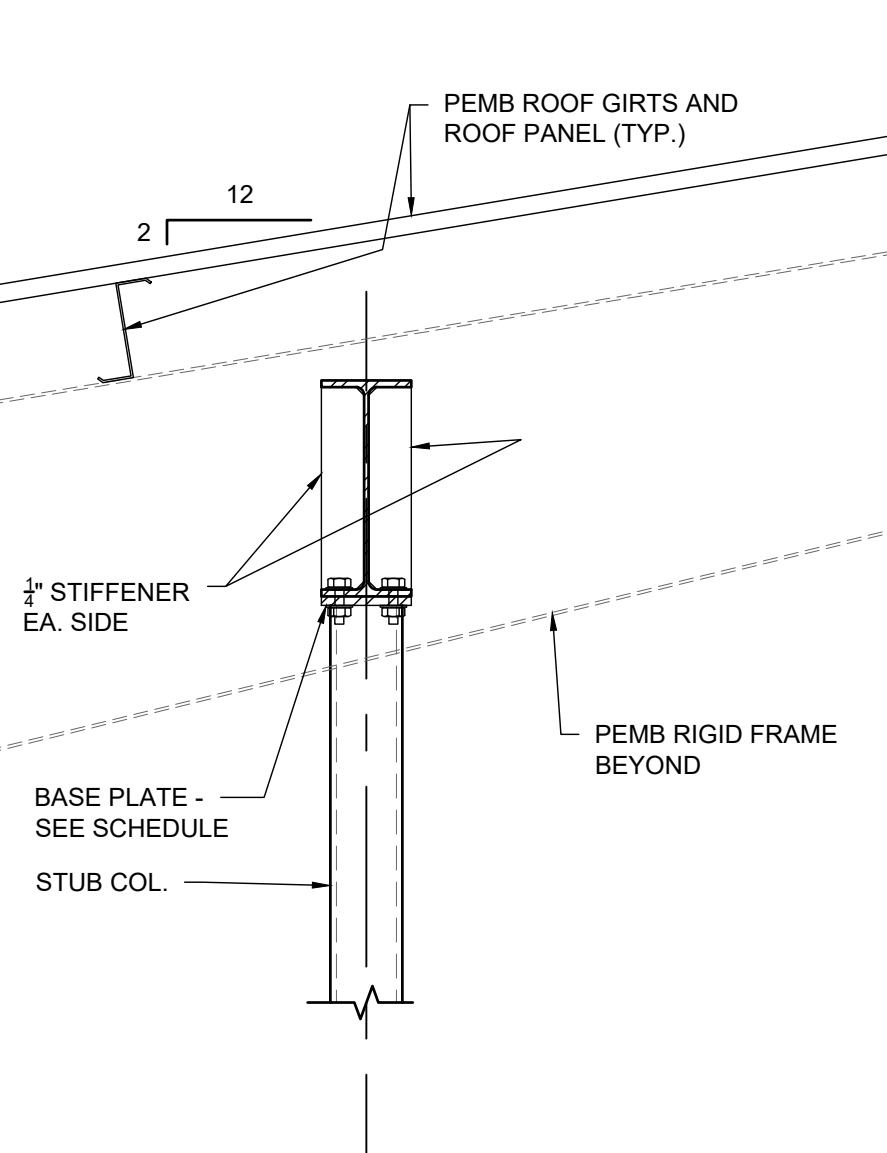
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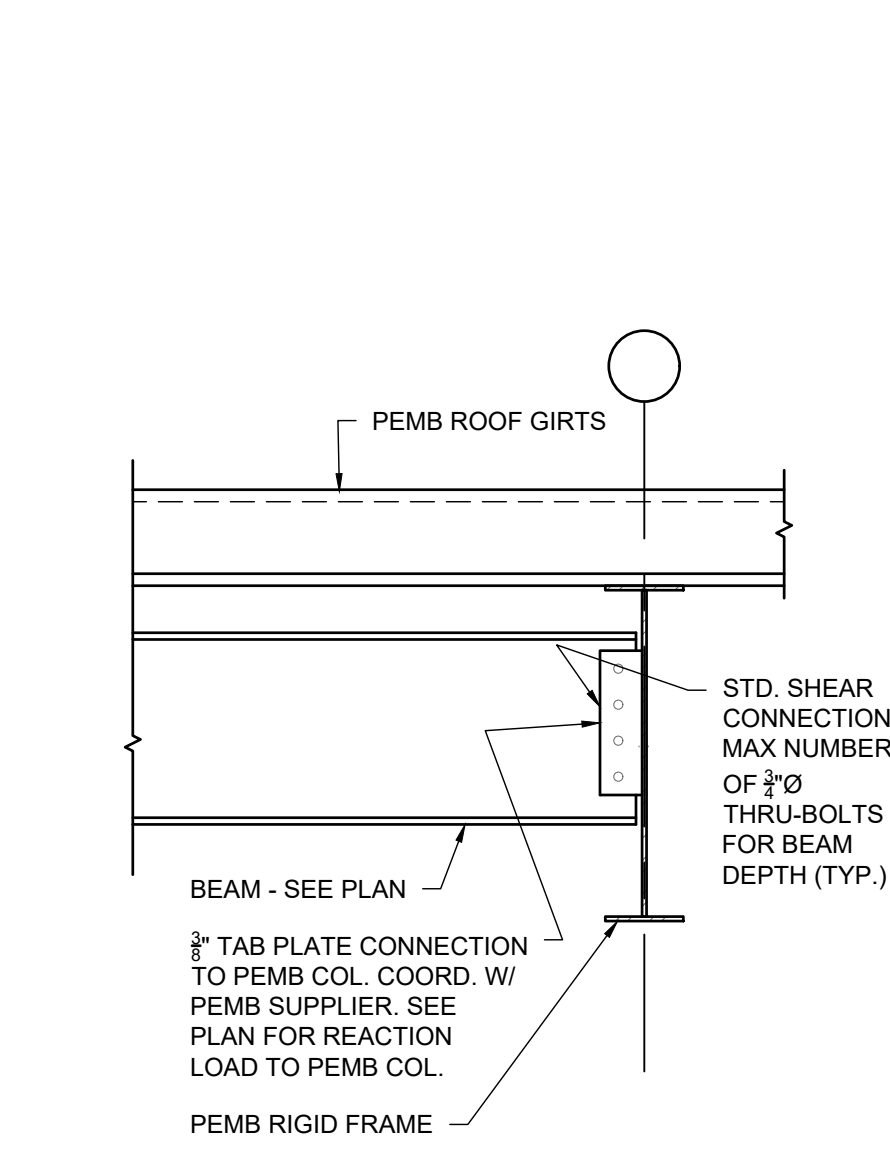
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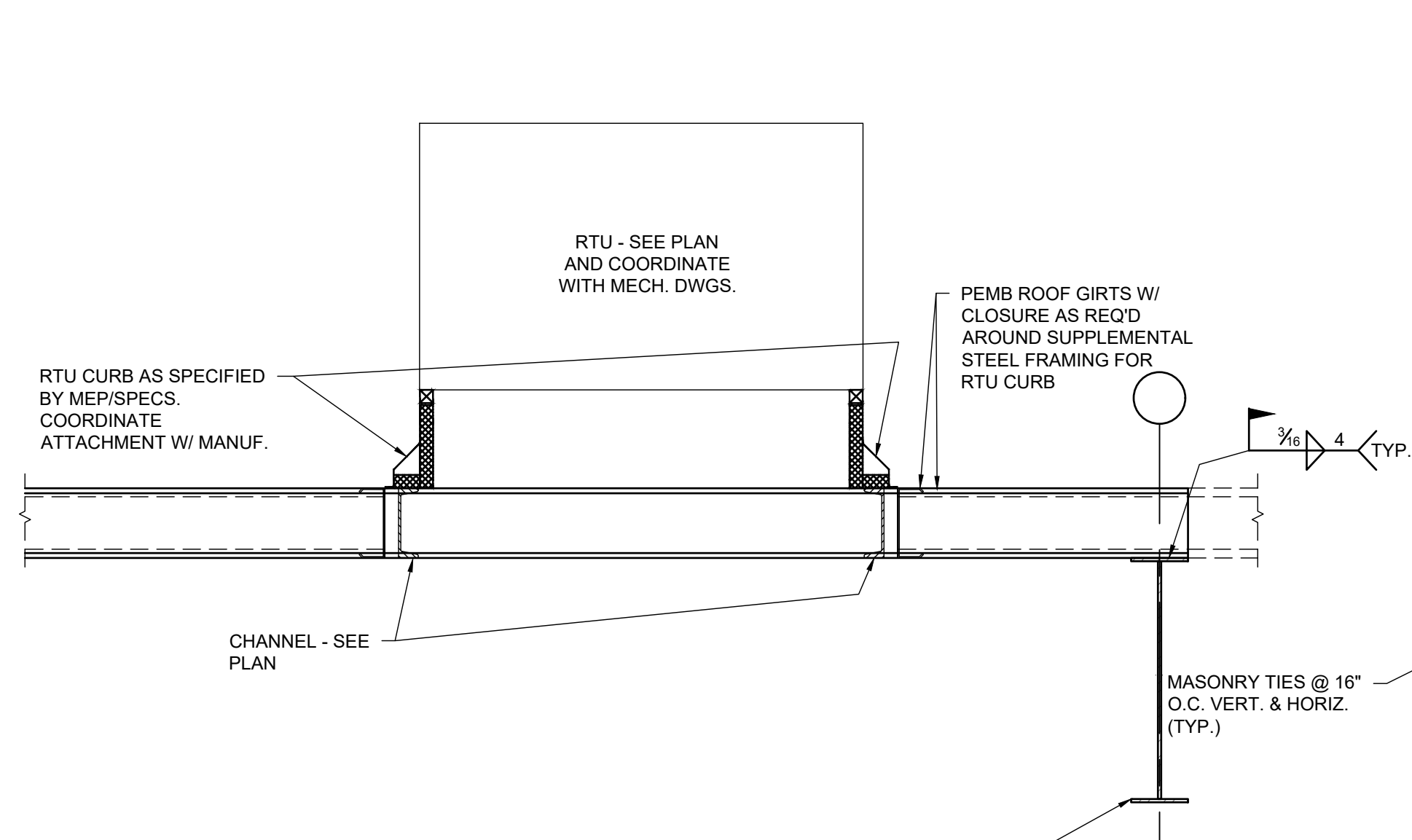
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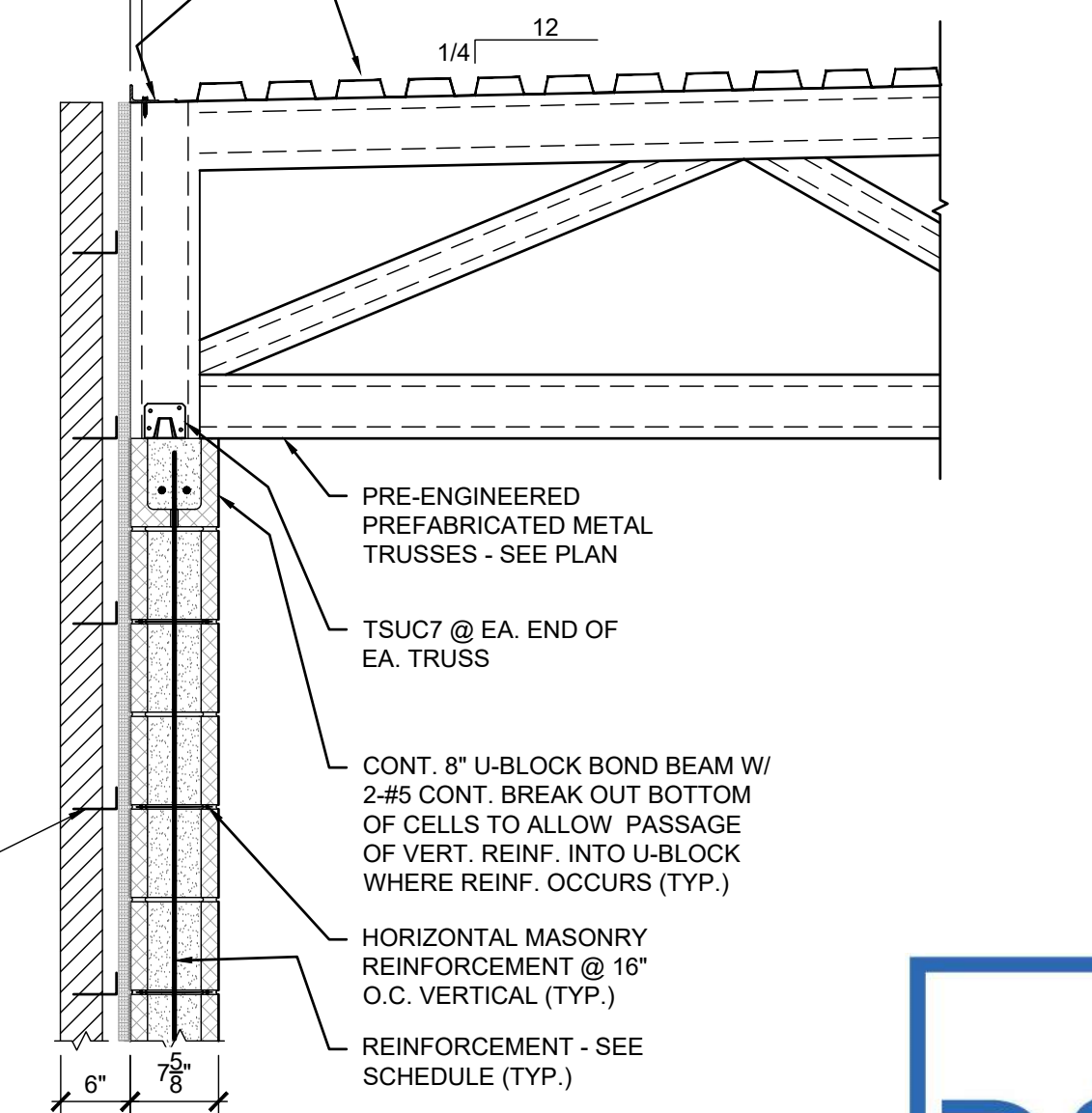
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**51 SECTION**  
S3.4 SCALE: 3/4" = 1'-0"



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



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

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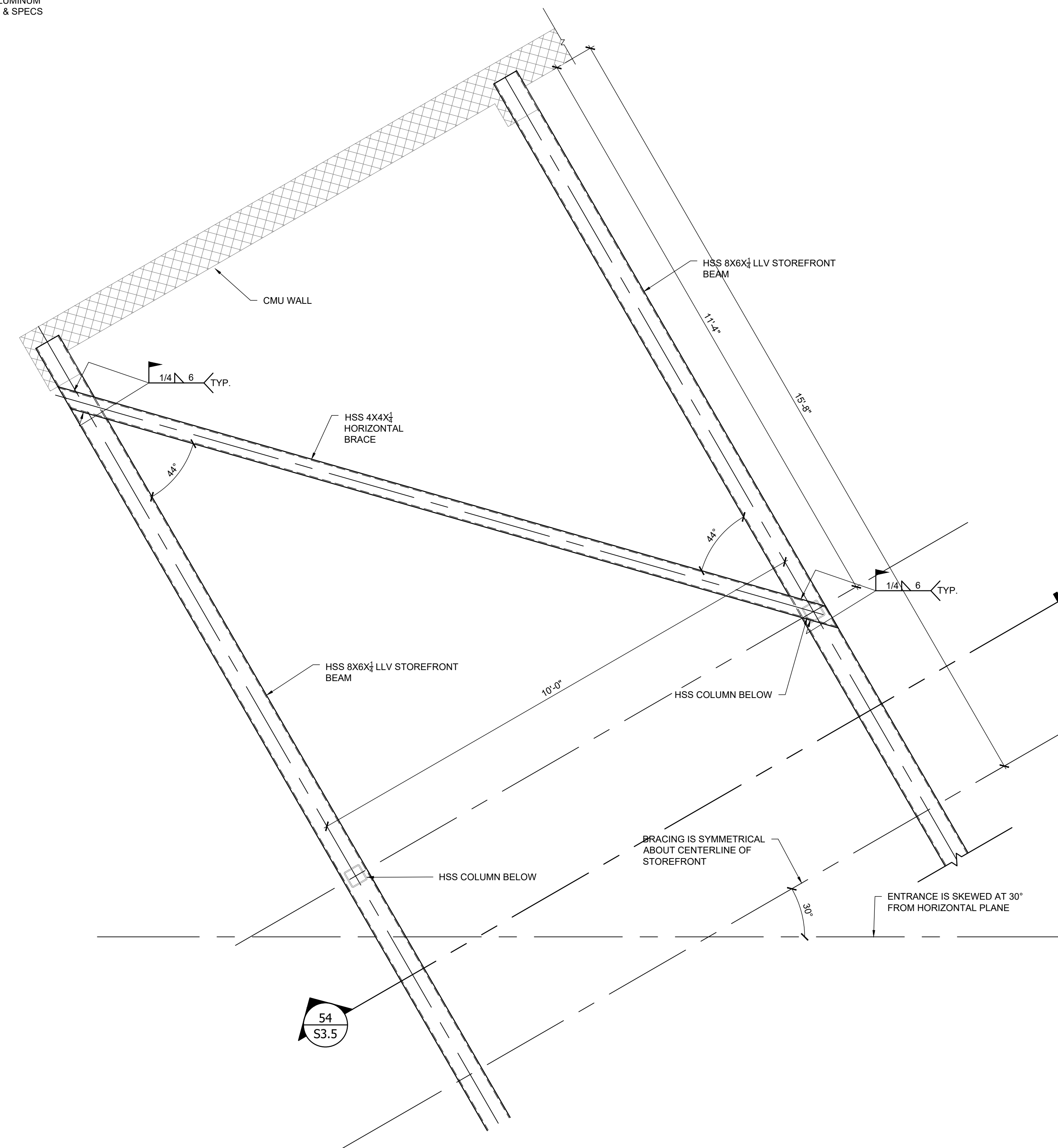
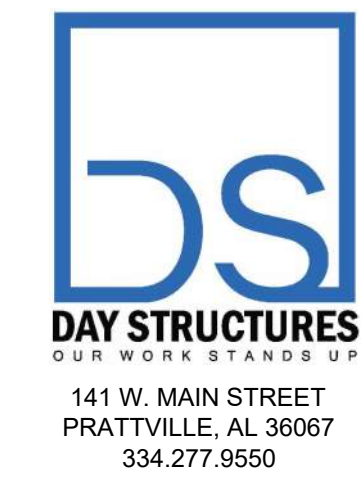
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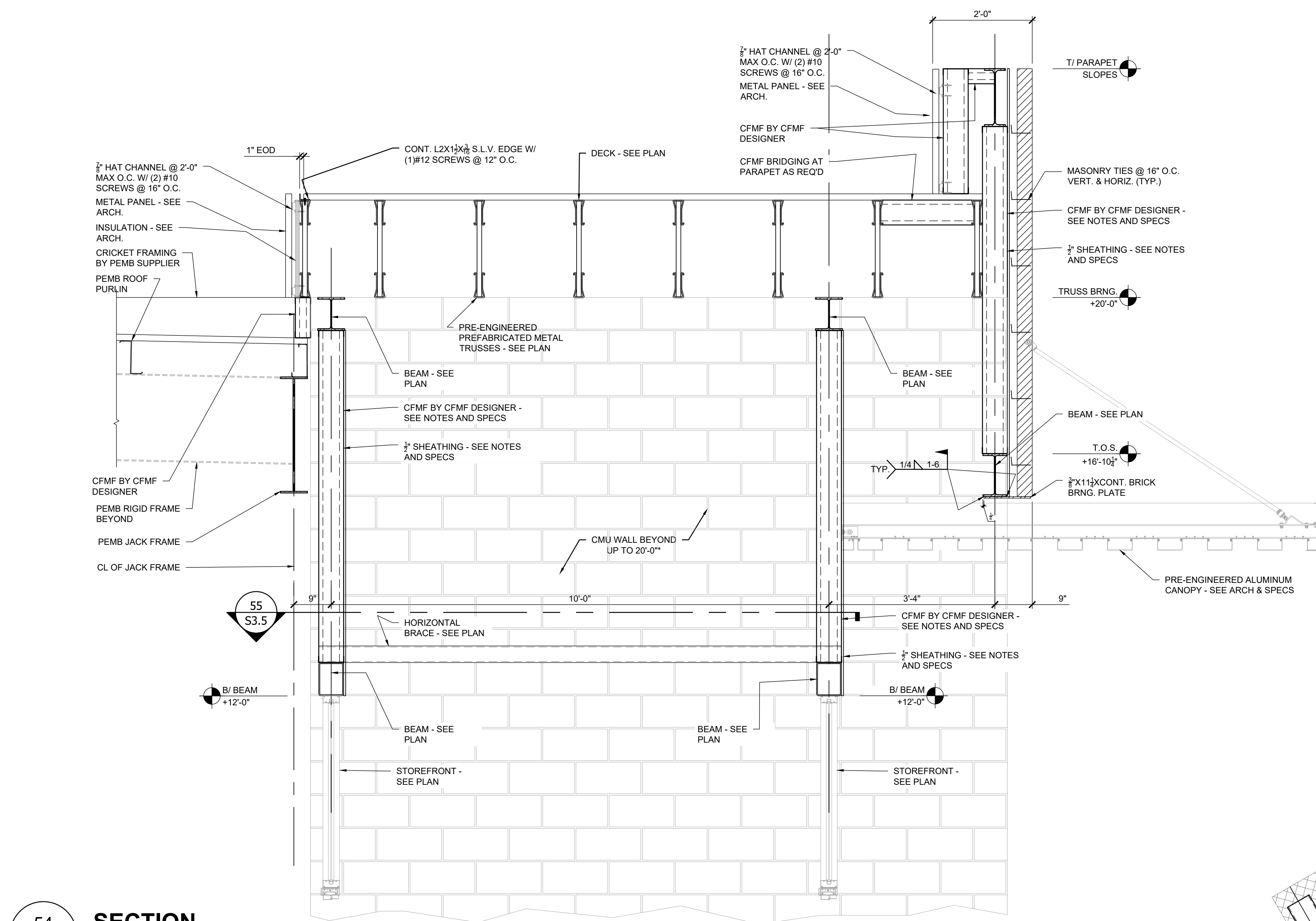


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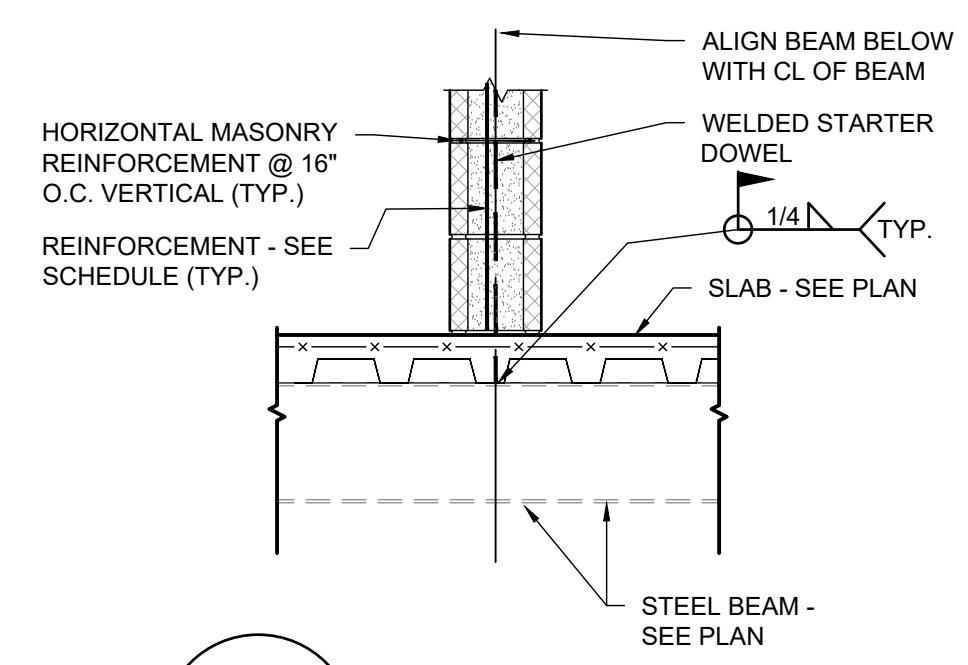
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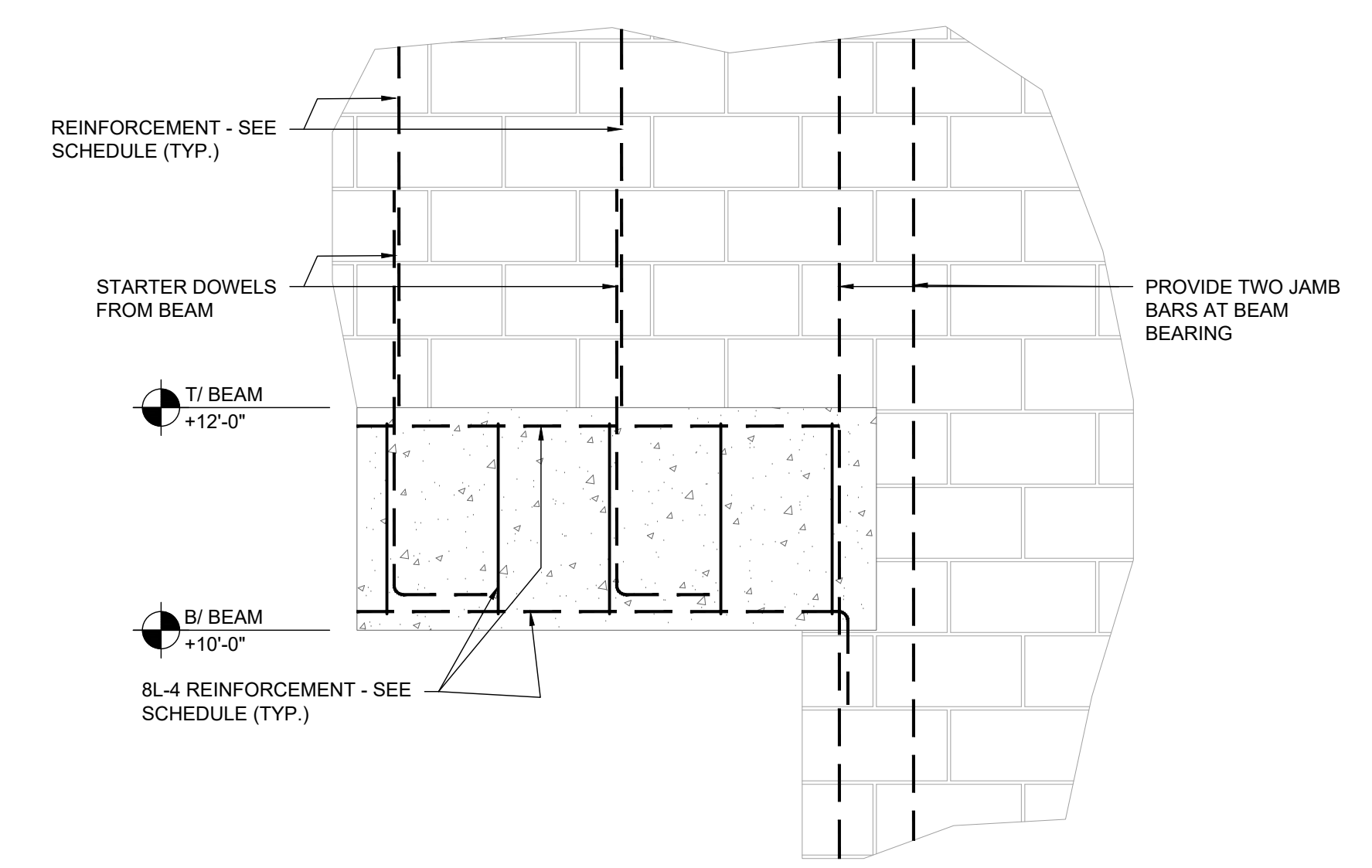
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54 SECTION  
S3.5 SCALE: 3/4" = 1'-0"



56 SECTION  
S3.5 SCALE: 3/5



57 SECTION  
S3.5 SCALE: 3/5



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**LEGEND**

- F - NEW FIRE SPRINKLER PIPING
- W - UG FIRE WATER SERVICE
- △ - WET PIPE SYSTEM CONTROL RISER
- ⊗ - SHUT OFF VALVE
- ⊘ - CHECK VALVE
- - SPRINKLER SYSTEM ZONE BOUNDARY
- ④ - 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
- TS - TAMPER SWITCH

**CIVIL COORDINATION**

SEE SITE UTILITIES DRAWING FOR THE LOCATION OF THE FIRE WATER SERVICE, THE BACKFLOW PREVENTER, AND FIRE HYDRANTS. PROVIDE WATERPROOF SUPERVISORY SWITCHES (TAMPER SWITCHES) ON THE TWO ISOLATION VALVES AT THE BACKFLOW PREVENTER. 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.

**SPRINKLER SYSTEMS SCHEDULE**

ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM / SF	CALCULATED AREA / SF	GPM HOSE ALLOWANCE
OFFICES, GYM, LOCKER ROOMS, TOILETS, LOBBIES, CORRIDORS, TRAINING, STAIRWELLS, CHAIR LIFT	WET PIPE	LIGHT HAZARD	.10	1500	100
BUILDING SERVICES, LAUNDRY, STORAGE, CONCESSIONS	WET PIPE	ORDINARY - 1	.15	1500	250

**NOTES:**

- SPRINKLER COVERAGE SHALL BE PROVIDED THROUGHOUT ALL AREAS OF THE BUILDING.
- ALL SPRINKLERS AND DISTRIBUTION PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES AS APPROPRIATE.
- SIZES, NOT SHOWN, SHALL BE PER SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
- 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.
- PROVIDE CONCEALED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH HARD CEILINGS.
- PROVIDE RECESSED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH SUSPENDED CEILINGS.
- PROVIDE EXPOSED, QUICK RESPONSE, UPRIGHT SPRINKLERS AT ALL AREAS WITHOUT FINISHED CEILINGS.
- SPRINKLERS SHALL BE FACTORY COLORED OFF-WHITE. ESCUTCHEONS SHALL MATCH SPRINKLERS. SUBMIT COLOR CHARTS TO ARCHITECT FOR APPROVAL PRIOR TO PLACING ORDER.
- 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.
- SPRINKLERS SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED USING LISTED GUARDS.

**GENERAL NOTES:**

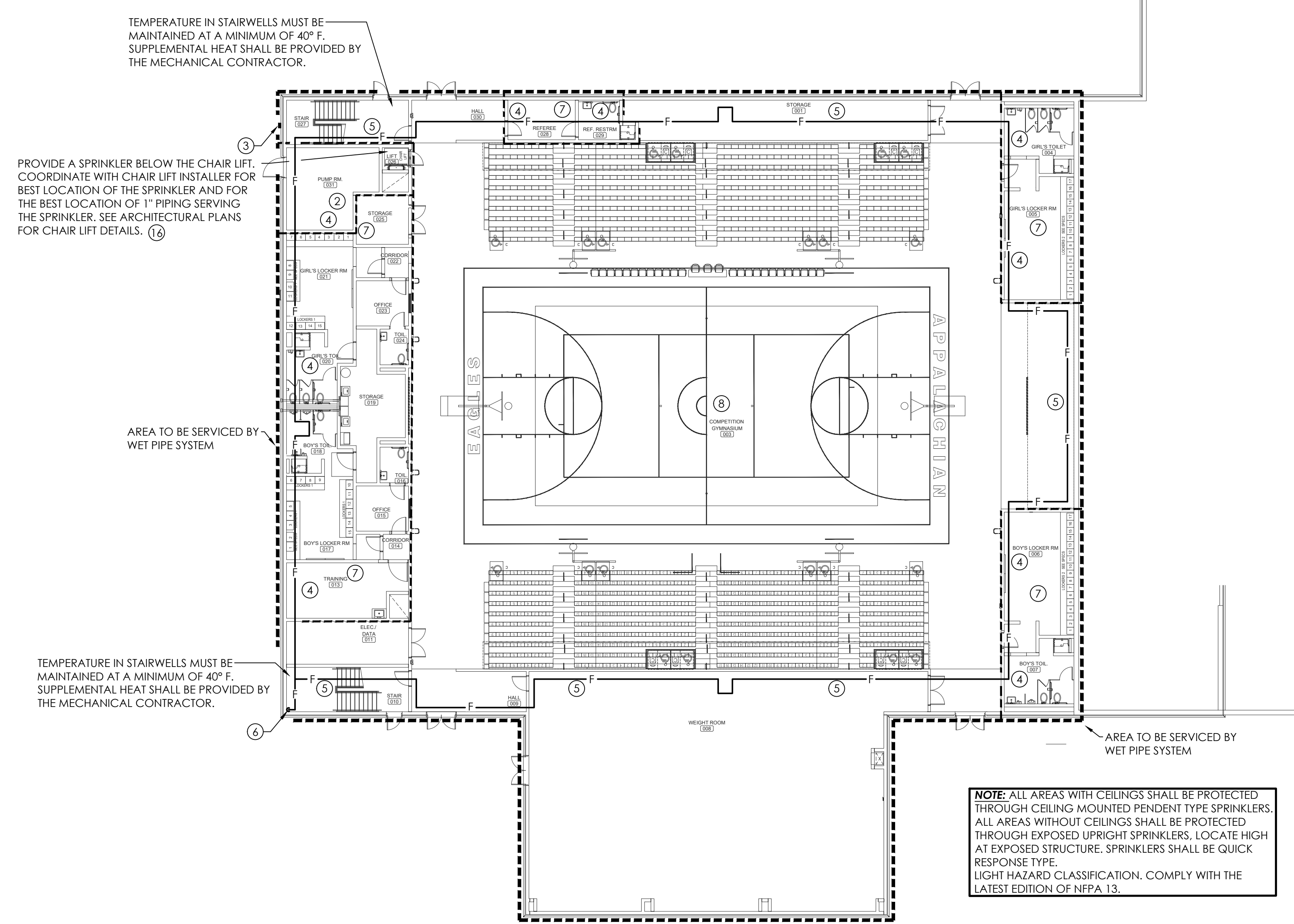
- FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL.
- THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- FIRE PROTECTION SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE LATEST 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.
- MAINTAIN ACCURATE AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND DELIVER REQUIRED COPIES TO THE OWNER AS PART OF CLOSE OUT DOCUMENTS.
- 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 LICENSE SEAL, WITH SIGNATURE AND DATE, WHEN SUBMITTED FOR REVIEW.
- 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.
- AREAS ABOVE CEILINGS SHALL BE NON-COMBUSTIBLE AND SHALL NOT BE USED FOR STORAGE. FIRE SPRINKLER PROTECTION IS NOT REQUIRED.

**(4) NOTE LEGEND: (THIS SHEET ONLY)**

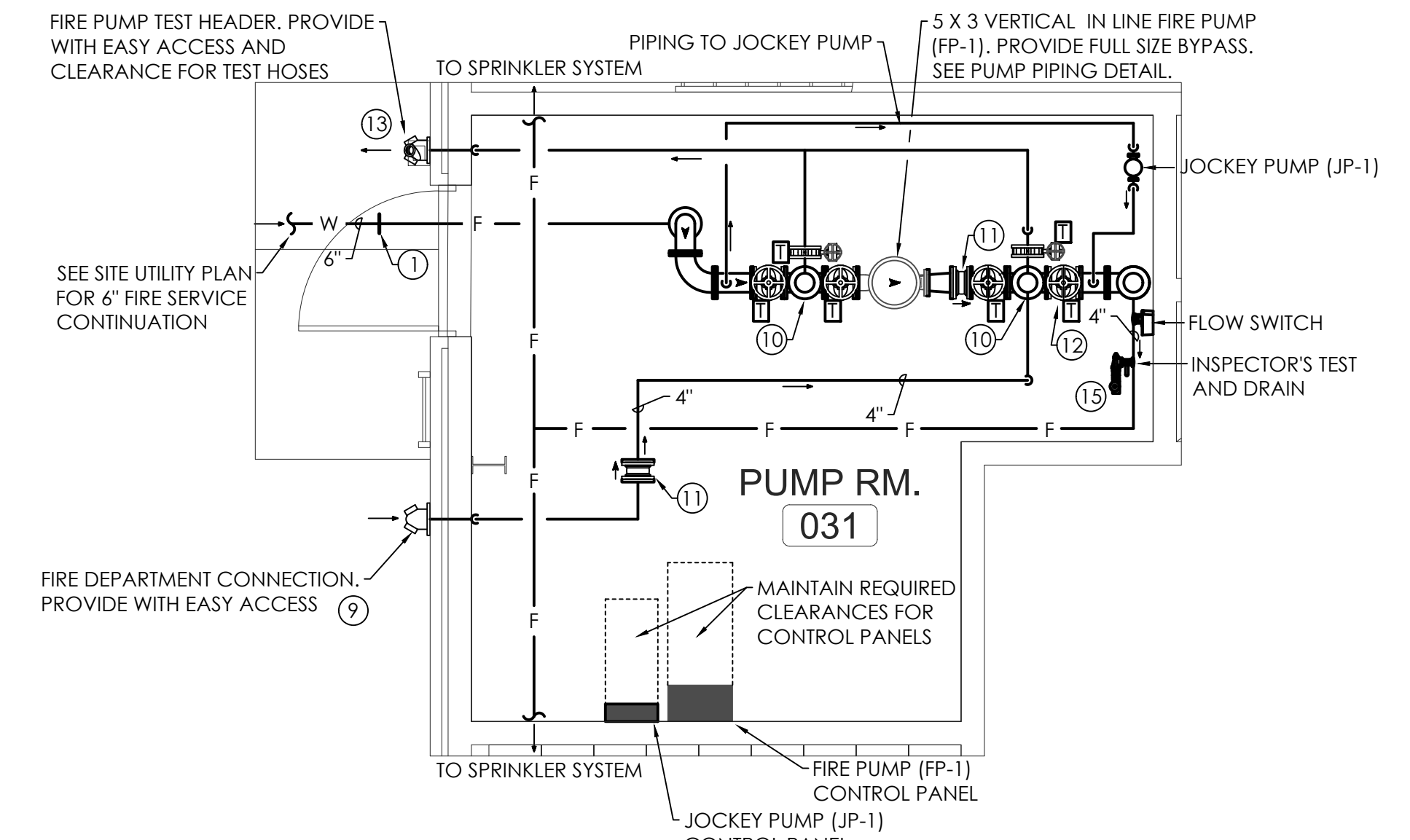
- SPRINKLER CONTRACTOR SHALL MAKE CONNECTION TO THE NEW UNDERGROUND FIRE SERVICE AT APPROXIMATELY 5'-0" OUTSIDE THE BUILDING FOOTPRINT. COORDINATE WITH SITE UTILITIES CONTRACTOR. VERIFY THAT REQUIRED FLUSHING AND TESTING OF FIRE SERVICE HAS BEEN COMPLETED PRIOR TO CONNECTION.
- TEMPERATURE IN THIS AREA MUST BE MAINTAINED AT A MINIMUM OF 40°F. SUPPLEMENTAL HEAT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- ELECTRIC HORN AND STROBE MOUNTED ON EXTERIOR WALL, ABOVE THE FDC. HORN AND STROBE SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. POWER AND FIRE ALARM CONNECTIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR EXACT LOCATION. ALARM HORN AND STROBE SHALL BE EQUAL TO "SPECTR ALERT ADVANCE - MODEL P2RH-120" FROM "SYSTEM SENSOR" (120 VOLT; 2 WIRE HORN STROBE; FOR OUTDOOR USE).
- WET SYSTEM FEED MAIN ROUTED ABOVE CEILING SERVING FIRST FLOOR DISTRIBUTION.
- WET SYSTEM FEED MAIN, SERVING AREAS WITH NO CEILINGS, ROUTED HIGH BELOW STRUCTURE.
- SPRINKLER MAIN ROUTED UP TO SERVE SECOND FLOOR.
- AREA BELOW CEILING TO BE PROTECTED BY CEILING MOUNTED SPRINKLERS SERVED THRU WET SYSTEM CONTROL RISER.
- GYM AREA TO BE SPRINKLED BY TYPICAL GRIDDED SYSTEM.
- PROVIDE A SIAMESE 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.
- BYPASS CONNECTION. SEE PUMP PIPING DETAIL.
- CHECK VALVE, (TYPICAL)
- SHUT OFF VALVE WITH TAMPER SWITCH, (TYPICAL)
- PROVIDE CHROME PLATED TEST HEADER, MOUNTED ON EXTERIOR WALL AND EASILY ACCESSIBLE FROM ELEVATED WALKWAY. "POTTER ROEMER" OR EQUAL.
- ROUTE DRAIN LINE, FROM INSPECTOR'S TEST, THROUGH THE EXTERIOR WALL AND SPILL ON CONCRETE SPLASH BLOCK AT OWNER APPROVED LOCATION.
- ROUTE DRAIN LINE, FROM INSPECTOR'S TEST, THROUGH THE EXTERIOR WALL AND SPILL ON CONCRETE SPLASH BLOCK AT OWNER APPROVED LOCATION.
- PROVIDE A DEDICATED 1" LINE, INCLUDING A SHUT-OFF VALVE WITH TAMPER SWITCH, IN EASILY ACCESSIBLE LOCATION, TO CONTROL THE SPRINKLER LOCATED IN THE CHAIR LIFT.

**INSPECTION AND TEST REQUIREMENTS BY LOCAL FIRE DEPARTMENT:**

- A PIPE INSPECTION OF ALL PIPES SHALL BE COMPLETED BY THE LOCAL FIRE DEPARTMENT BEFORE ANY PIPE IS INSTALLED.
- INSTALLATION INSPECTION: THE INSTALLATION OF ALL SPRINKLER PIPING, HANGARS, HEADS, AND RISERS, SHALL BE INSPECTED BY THE LOCAL FIRE DEPARTMENT BEFORE BEING COVERED.
- 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.
- A FINAL ACCEPTANCE TEST, OF ALL NEWLY INSTALLED FIRE SPRINKLER SYSTEMS, AND/OR WHERE PLANS WERE REQUIRED TO BE SUBMITTED, SHALL BE ACCOMPLISHED.
- A COMPLETED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING" SHALL BE PROVIDED TO OWNER.
- A COMPLETED COPE OF THE "LOCAL FIRE DEPARTMENT FUNCTIONAL TEST" SHALL BE PROVIDED AT THE SYSTEM ACCEPTANCE.



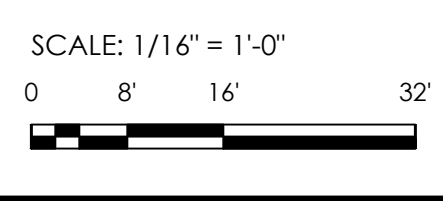
**FIRE SPRINKLER PLAN - LOWER FLOOR**  
SCALE: 1/16"=1'-0"



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

**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).	10. FIRE STOP ALL PENETRATIONS OF SMOKE / FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC.. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED STRUCTURES.	19. SPRINKLERS SHALL COVER THE ENTIRE AREA OF EACH PROTECTED ROOM, INCLUDING ALL COVES, SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS. PROVIDE EXTRA SPRINKLERS AS REQUIRED TO AVOID ANY OBSTRUCTION OF SPRINKLER COVERAGE.	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.
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.	11. PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND IN CHASES.	20. ALL SPRINKLER HEADS MOUNTED IN CEILINGS SHALL BE LOCATED A MINIMUM OF 30" 4" AWAY FROM ANY WALL, CEILING HEIGHT CHANGE, OR ANY OTHER VERTICAL INTERSECTING SURFACE.	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.
3. OCCUPANCY CLASSIFICATION SHALL BE PER 2022 NFPA-13.	12. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH 2022 NFPA-13.	21. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.	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.
4. SYSTEMS SHALL BE INTERFACED WITH BUILDING ALARM SYSTEM.	13. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE COMPLY WITH 2022 NFPA-13.	22. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE / FILE STORAGE.	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.
5. BUILDING SHALL BE SUPERVISED PER 2021 INTERNATIONAL BUILDING CODE, AND NFPA 71, 72, 73.	14. TEMPERATURE RATINGS, OF FUSIBLE ELEMENTS, IN AUTOMATIC SPRINKLERS SHALL BE IN ACCORDANCE WITH 2022 NFPA-13.	23. BE FACTORY MARKED "U.L." AND "F.M.", (175 WORKING PRESSURE).	32. THE SPRINKLER CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED TO ROUTE SPRINKLER PIPING THROUGH THE STRUCTURE AND TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
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.	15. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE PROVIDED WITH 2022 NFPA-13.	24. PROVIDE SPRINKLERS ABOVE AND BELOW ANY OBSTRUCTION THAT IS 48" OR WIDER.	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.
7. LOCATION AND SPACING OF SPRINKLERS SHALL COMPLY WITH 2022 NFPA 13.	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.	25. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL AND/OR DATA EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES.	
8. CUTTING OF STRUCTURAL AND / OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.	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.	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.	
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.	18. PROVIDE A PERMANENTLY ATTACHED NAME TAG, STATING THE REQUIRED DESIGN CRITERIA, FOR EACH HYDRAULICALLY DESIGNED SYSTEM.	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.	



**MORRIS DAVIS ENGINEERING LLC**  
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 www.morriseng.com PROJECT NO: 24-088

SHEET TITLE : FIRE SPRINKLER - LOWER FLOOR PLAN  
 MCKEE JOB # : 24-169  
 DRAWN BY : J.P.M.  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **FP1.0**

- N:\2024\10624-088 Appalachain High School Gym\Drawings\Fire\Pro24-088 FP1\_09.13.2024.dwg  
 - Wednesday, September 18, 2024 2:06:24 PM



**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.

837 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



**CIVIL COORDINATION**  
 SEE SITE UTILITIES DRAWING FOR THE LOCATION OF THE FIRE WATER SERVICE, THE BACKFLOW PREVENTER, AND FIRE HYDRANTS. PROVIDE WATERPROOF SUPERVISORY SWITCHES (TAMPER SWITCHES) ON THE TWO ISOLATION VALVES AT THE BACKFLOW PREVENTER. 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.

**LEGEND**

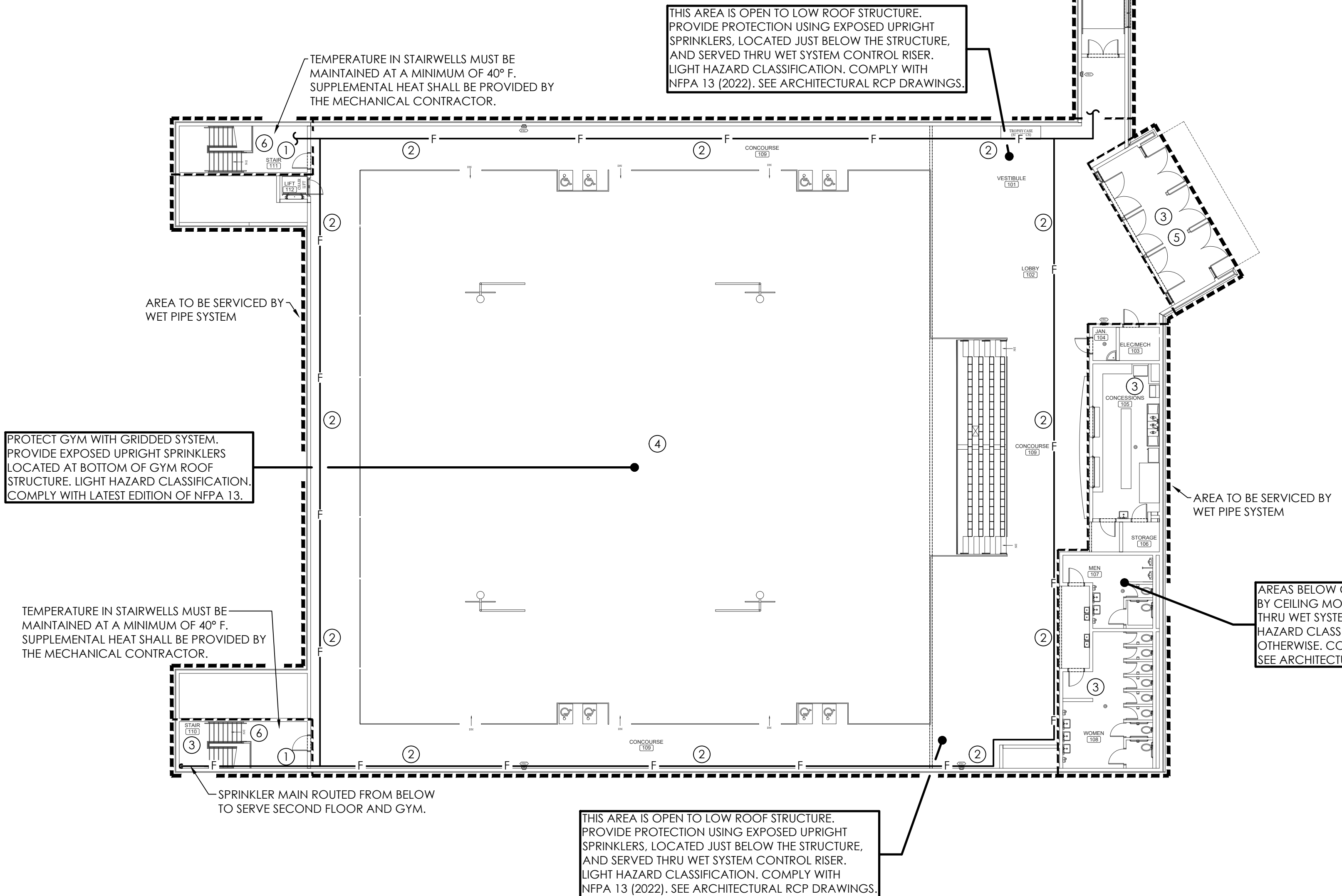
- F - NEW FIRE SPRINKLER PIPING
- W - UG FIRE WATER SERVICE
- △ - WET PIPE SYSTEM CONTROL RISER
- ⊗ - SHUT OFF VALVE
- - CHECK VALVE
- - - - SPRINKLER SYSTEM ZONE BOUNDARY
- ④ - NOTE LEGEND NUMBER
- FDC - FIRE DEPARTMENT CONNECTION
- AHJ - AUTHORITY HAVING JURISDICTION
- IBC - INTERNATIONAL BUILDING CODE
- IFC - INTERNATIONAL FIRE CODE
- NFPA - NATIONAL FIRE PROTECTION ASSOC.
- DIP - DUCTILE IRON PIPE
- MJ - MECHANICAL JOINT
- UG - UNDERGROUND
- GP/M - GALLONS PER MINUTE
- PSI - POUNDS PER SQUARE INCH
- SF - SQUARE FEET
- U.L. - UNDERWRITERS LABORATORY
- FS - FLOW SWITCH
- T - TAMPER SWITCH

**SPRINKLER SYSTEMS SCHEDULE**

ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM / SF	CALCULATED AREA / SF	GPM HOSE ALLOWANCE
OFFICES, GYM, LOCKER ROOMS, TOILETS, LOBBIES, CORRIDORS, TRAINING, STAIRWELLS, CHAIR LIFT	WET PIPE	LIGHT HAZARD	.10	1500	100
BUILDING SERVICES, LAUNDRY, STORAGE, CONCESSIONS	WET PIPE	ORDINARY - I	.15	1500	250

**NOTES:**

- SPRINKLER COVERAGE SHALL BE PROVIDED THROUGHOUT ALL AREAS OF THE BUILDING.
- ALL SPRINKLERS AND DISTRIBUTION PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES AS APPROPRIATE.
- SIZES, NOT SHOWN, SHALL BE PER SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
- ALL PIPING SHALL BE CONCEALED ABOVE CEILING, 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.
- PROVIDE CONCEALED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH HARD CEILINGS.
- PROVIDE RECESSED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH SUSPENDED CEILINGS.
- PROVIDE EXPOSED, QUICK RESPONSE, UPRIGHT SPRINKLERS AT ALL AREAS WITHOUT FINISHED CEILINGS.
- SPRINKLERS SHALL BE FACTORY COLORED OFF-WHITE. ESCUTCHEONS SHALL MATCH SPRINKLERS. SUBMIT COLOR CHARTS TO ARCHITECT FOR APPROVAL PRIOR TO PLACING ORDER.
- FIRE SPRINKLERS SHALL BE LOCATED IN A SYMMETRICAL PATTERN RELATIVE TO THE CEILING, AND TO ALL OTHER ITEMS LOCATED IN THE CEILING. SPRINKLERS LOCATED IN LAY-IN CEILING 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.
- SPRINKLERS SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED USING LISTED GUARDS.



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

**INSPECTION AND TEST REQUIREMENTS BY LOCAL FIRE DEPARTMENT:**

- A PIPE INSPECTION OF ALL PIPES SHALL BE COMPLETED BY THE LOCAL FIRE DEPARTMENT BEFORE ANY PIPE IS INSTALLED.
- INSTALLATION INSPECTION: THE INSTALLATION OF ALL SPRINKLER PIPING, HANGARS, HEADS, AND RISERS, SHALL BE INSPECTED BY THE LOCAL FIRE DEPARTMENT BEFORE BEING COVERED.
- 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.
- A FINAL ACCEPTANCE TEST, OF ALL NEWLY INSTALLED FIRE SPRINKLER SYSTEMS, AND/OR WHERE PLANS WERE REQUIRED TO BE SUBMITTED, SHALL BE ACCOMPLISHED.
- A COMPLETED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING" SHALL BE PROVIDED TO OWNER.
- A COMPLETED COPE OF THE "LOCAL FIRE DEPARTMENT FUNCTIONAL TEST" SHALL BE PROVIDED AT THE SYSTEM ACCEPTANCE.

**GENERAL NOTES:**

- FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL.
- THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- 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.
- MAINTAIN ACCURATE AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND DELIVER REQUIRED COPIES TO THE OWNER AS PART OF CLOSE OUT DOCUMENTS.
- 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 LICENSE SEAL, WITH SIGNATURE AND DATE, WHEN SUBMITTED FOR REVIEW.
- 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.
- AREAS ABOVE CEILING SHALL BE NON-COMBUSTIBLE AND SHALL NOT BE USED FOR STORAGE. FIRE SPRINKLER PROTECTION IS NOT REQUIRED.

**NOTE LEGEND: (THIS SHEET ONLY)**

- WET SYSTEM FEED MAIN ROUTED ABOVE CEILING.
- WET SYSTEM FEED MAIN, SERVING AREAS WITH NO CEILING, ROUTED HIGH BELOW ROOF STRUCTURE.
- AREA BELOW CEILING TO BE PROTECTED BY CEILING MOUNTED SPRINKLERS SERVED THRU WET SYSTEM CONTROL RISER.
- GYM AREA TO BE SPRINKLED BY TYPICAL GRIDDED SYSTEM.
- ATTIC SPACE OVER MAIN ENTRANCE SHALL BE NON-COMBUSTIBLE AND SHALL NOT BE USED FOR STORAGE. SPRINKLER PROTECTION IS NOT REQUIRED. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ROOF PLAN.
- INSTALL SPRINKLERS AT THE TOP OF THE STAIRWELL AND UNDER THE FIRST ACCESSIBLE LANDING ABOVE THE BOTTOM OF THE STAIRWELL. SPRINKLERS SHALL ALSO BE INSTALLED BENEATH LANDINGS, AND/OR STAIRS, WHERE AREA MAY BE USED FOR STORAGE. (OH-1)

**SPRINKLER SYSTEM NOTES**

- 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).
- 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.
- OCCUPANCY CLASSIFICATION SHALL BE PER 2022 NFPA-13.
- SYSTEMS SHALL BE INTERFACED WITH BUILDING ALARM SYSTEM.
- BUILDING SHALL BE SUPERVISED PER 2021 INTERNATIONAL BUILDING CODE, AND NFPA 71, 72, 73.
- 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.
- LOCATION AND SPACING OF SPRINKLERS SHALL COMPLY WITH 2022 NFPA 13.
- CUTTING OF STRUCTURAL AND / OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
- 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.
- FIRE STOP ALL PENETRATIONS OF SMOKE / FIRE WALLS, CEILING, FLOORS, ROOFS, ETC., SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED STRUCTURES.
- PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILING AND IN CHASES.
- PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH 2022 NFPA-13.
- 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.
- 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 WIRINGS, SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION, COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION.
- PROVIDE A PERMANENTLY ATTACHED NAME TAG, STATING THE REQUIRED DESIGN CRITERIA, FOR EACH HYDRAULICALLY DESIGNED SYSTEM. SPRINKLERS SHALL COVER THE ENTIRE AREA OF EACH PROTECTED ROOM, INCLUDING ALL COVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS. PROVIDE EXTRA SPRINKLERS AS REQUIRED TO AVOID ANY OBSTRUCTION OF SPRINKLER COVERAGE.
- ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 30" 4" AWAY FROM ANY WALL, CEILING HEIGHT CHANGE, OR ANY OTHER VERTICAL INTERSECTING SURFACE.
- PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
- MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE / FILE STORAGE.
- PROVIDE FLUSHING CONNECTIONS, TEST CONNECTIONS, AND AUXILIARY DRAINS AS NEEDED FOR COMPLETE DRAINAGE AND TESTING.
- PROVIDE SPRINKLERS ABOVE AND BELOW ANY OBSTRUCTION THAT IS 48" OR WIDER.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL AND/OR DATA EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES.
- 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.
- 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.
- 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.
- 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.
- ALL ORDINARY - I HAZARD AREAS SHALL BE PROTECTED WITH A DENSITY OF .15 / 1500 SF PLUS A MINIMUM HOSE ALLOWANCE OF 250 GPM AS PER NFPA-13.
- 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.
- THE SPRINKLER CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED TO ROUTE SPRINKLER PIPING THROUGH THE STRUCTURE AND TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
- 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.

SHEET TITLE : **FIRE SPRINKLER - UPPER FLOOR PLAN**  
 MCKEE JOB # : **24-169**  
 DRAWN BY : **J.P.M.**  
 DATE : **9.18.24**  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

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

**MORRIS DAVIS**  
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 www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **FP1.1**

- N:\2024 Jobs\24-088 Appalachian High School Gym\Drawings\Fire\24-088 FP1\_09.13.2024.dwg  
 - Wednesday, September 18, 2024 2:06:24 PM



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

ESTIMATED PSI REQUIREMENT		ESTIMATED WATER FLOW DEMAND (GPM)	
END HEAD HYDRAULIC DEMAND:	225 SF X 1.0 = 22.5 GAL.	DEMAND: .10 (DENSITY) X 1500 SF (REMOTE AREA) =	150 GPM
END HEAD PRESSURE:	$\left(\frac{22.5}{5.6}\right)^2 = 16.2$ PSI	DEMAND PLUS 15% SAFETY: 150 GPM X 1.15 =	172.5 GPM
IN BLDG ELEV. PRESSURE LOSS:	44' X .434 = 19.1 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		
MINIMUM PSI REQUIREMENT:	= 56.3 PSI	TOTAL ESTIMATED DEMAND:	= 272.5 GPM

**WATER FLOW TEST #1**

**WATER FLOW TEST DATA**

STATIC HYDRANT LOCATION: HYDRANT 3M1 - 4201 COUNTY HIGHWAY 29  
[LATITUDE: 33.888978] [LONGITUDE: -86.396919]

FLOW HYDRANT LOCATION: HYDRANT 3M2 - 4201 COUNTY HIGHWAY 29  
[LATITUDE: 33.893628] [LONGITUDE: -86.388933]

ESTIMATED STATIC: 54 PSI

ESTIMATED FLOW: 500 GPM

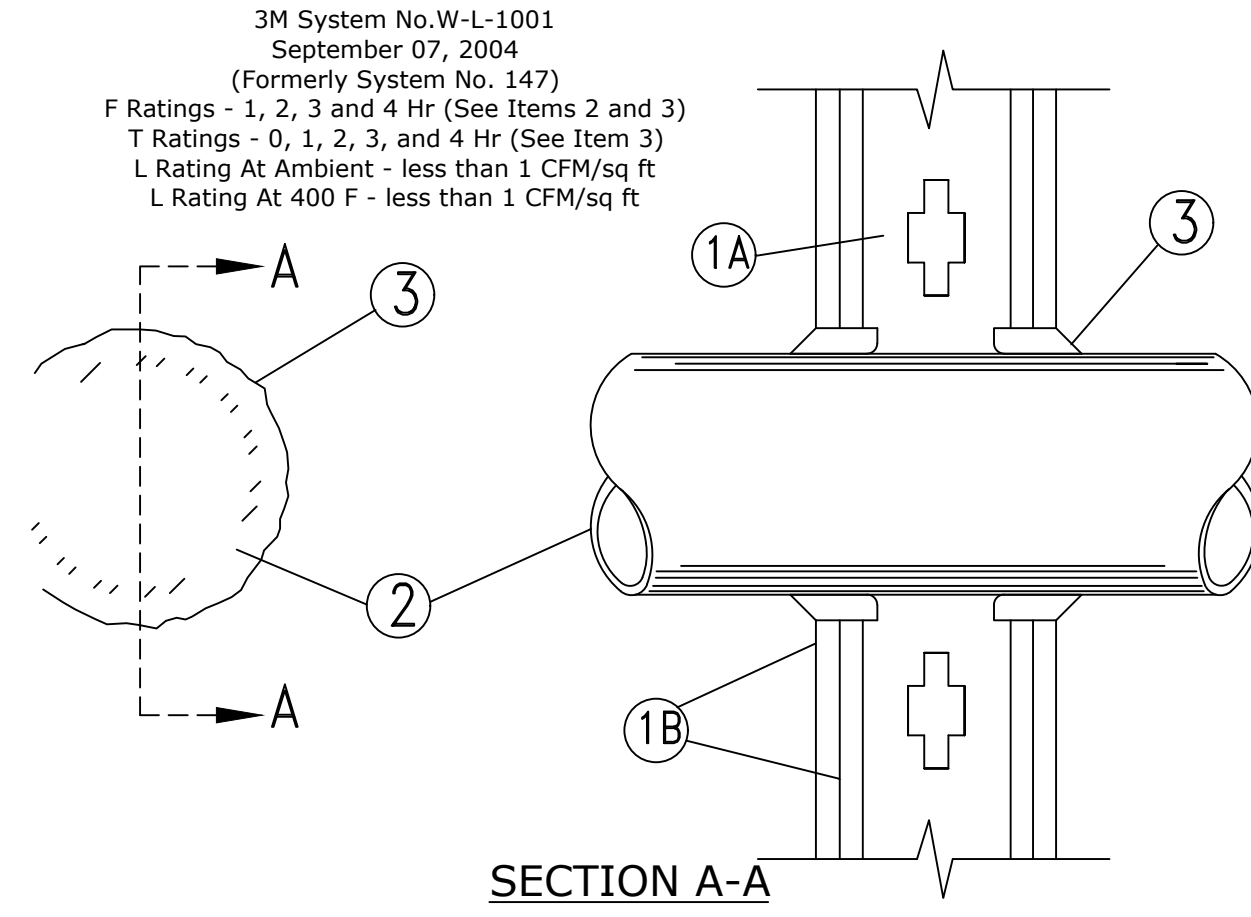
ESTIMATED RESIDUAL: 16 PSI

PITOT READING: 10 PSI

CONDUCTED BY: STRAIGHT MOUNTAIN FIRE DEPARTMENT

DATE AND TIME TESTED: 10/3/2022

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

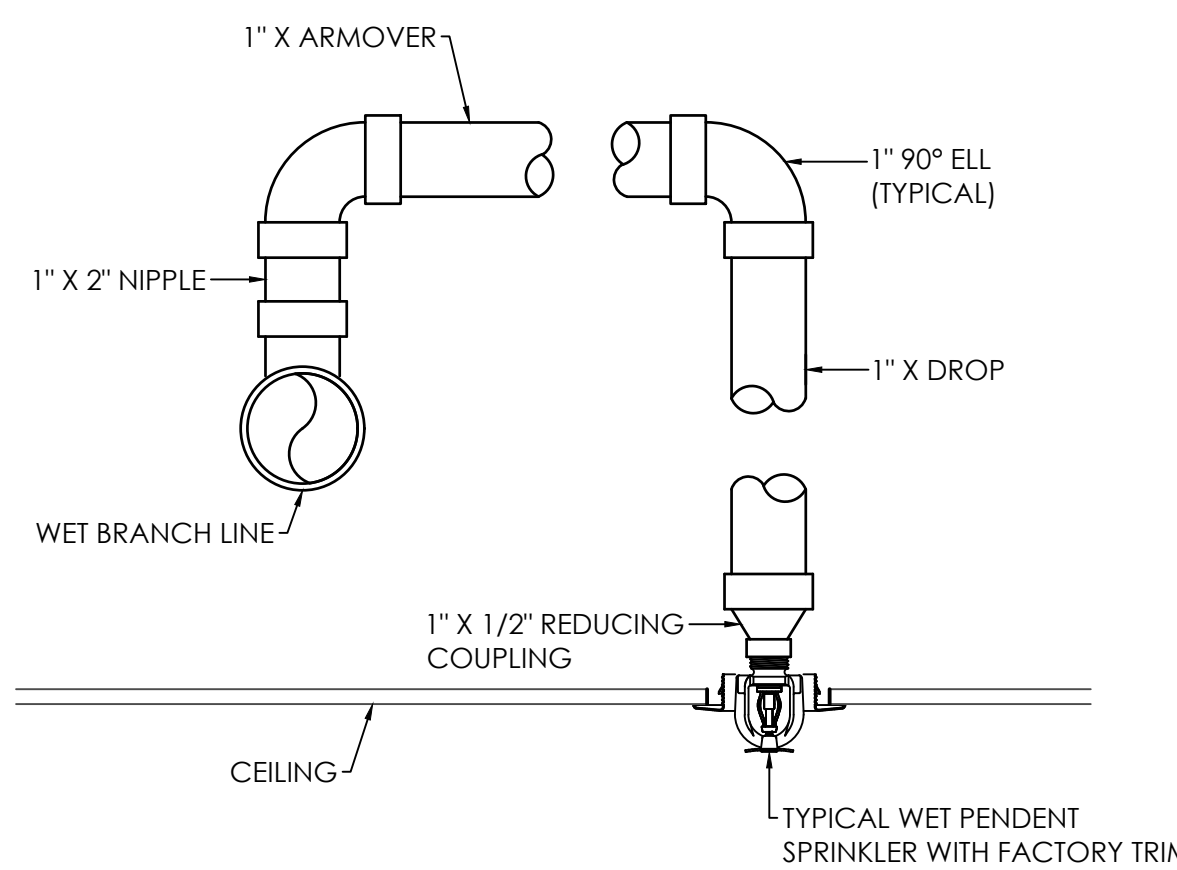


1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/wood wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of non 2 by 4 in. lumber spaced 16 in. OC with non 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 - Non 1/2 or 5/8 in. thick, 4 ft. wide with square or beveled edges. The gypsum wallboard type, thickness, number of layers, fastener type and shear orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max clear of opening is 26 in.
2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the fire-rated system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 8 in. (joint 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 - Non 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Iron Pipe - Non 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, non 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
  - C. Conduit - Non 6 in. diam (or smaller) steel conduit or non 4 in diam (or smaller) steel electrical metallic tubing
  - D. Copper Tubing - Non 6 in. diam (or smaller) Type L (or heavier) copper tubing.
  - E. Copper Pipe - Non 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. Non 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.
    2. Non 4 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.
    3. Non 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.
3. Fill, Void or Cavity Material - Caulk or Sealant - Min. S18 - 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/pendent interface at joint 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 F 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:
 

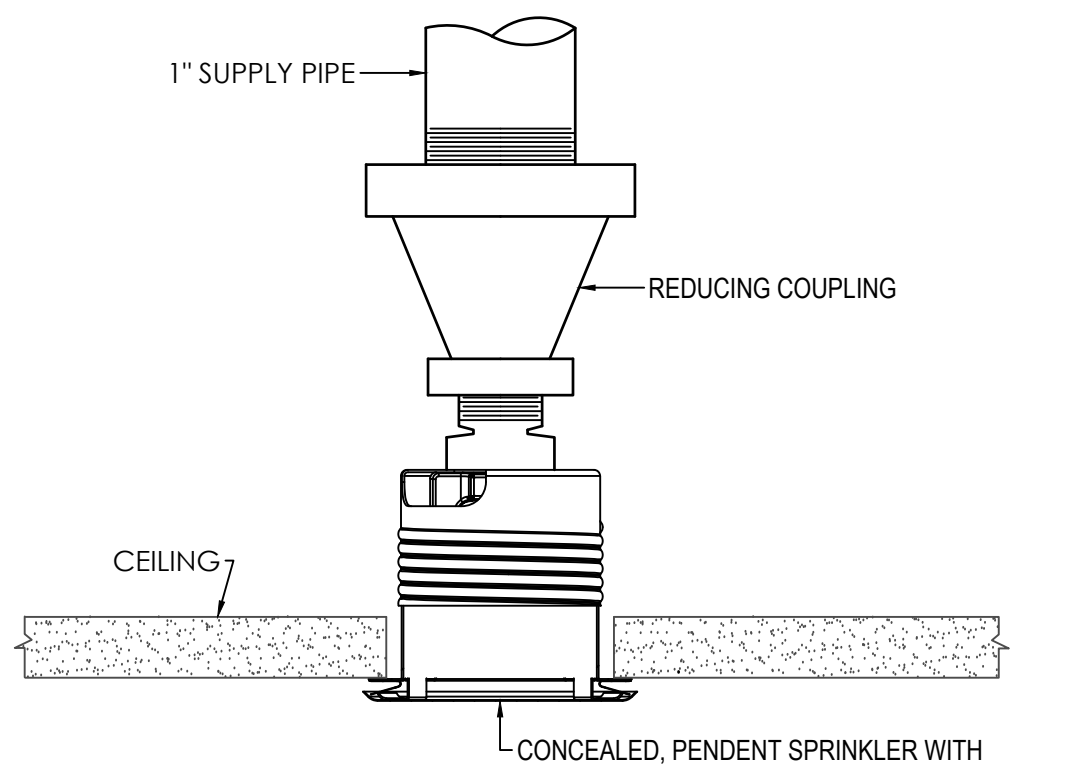
\*When copper pipe is used, F Rating is 0 hr.

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

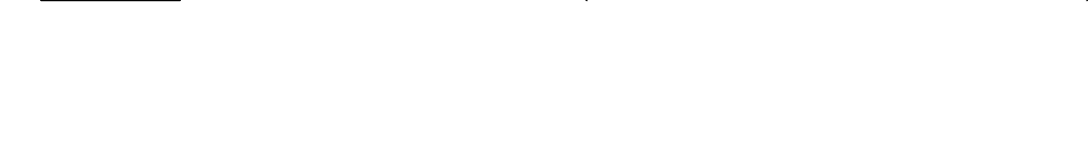
**PIPE PENETRATION THRU RATED GYP. BOARD WALL DETAIL**  
NO SCALE



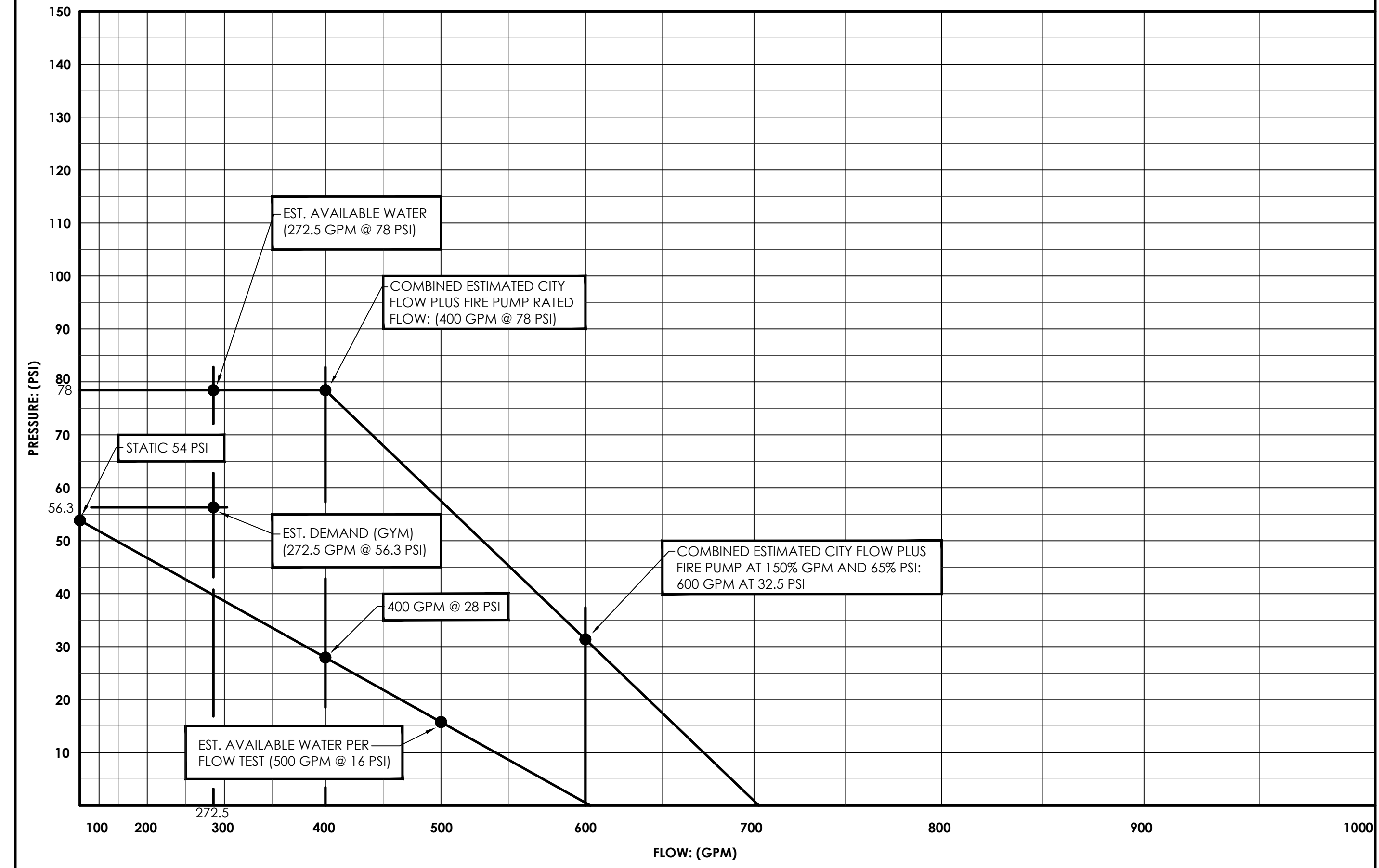
**RETURN BEND PIPING DETAIL**  
NO SCALE



**CONCEALED SPRINKLER DETAIL**  
NO SCALE



**SYSTEMS DEMAND GRAPH**



**VERTICAL INLINE FIRE PUMP SCHEDULE**

SYMBOL	GPM	PSI	TDH	RPM	SIZE	MOTOR		MIN. EFF.	PUMP SERVICE	REMARKS
						HP	ELEC			
FP-1	400	50	116	3525	5 X 3	30	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).

**JOCKEY PUMP SCHEDULE**

SYMBOL	GPM	PSI	RPM	MOTOR		PUMP SERVICE	REMARKS
				HP	ELEC		
JP-1	5	68	3450	.75	460/3/60	FIRE PROTECTION	1,2

- NOTES:**
1. BASED ON PATTERSON PUMP COMPANY, MODEL "PM1-7", 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.

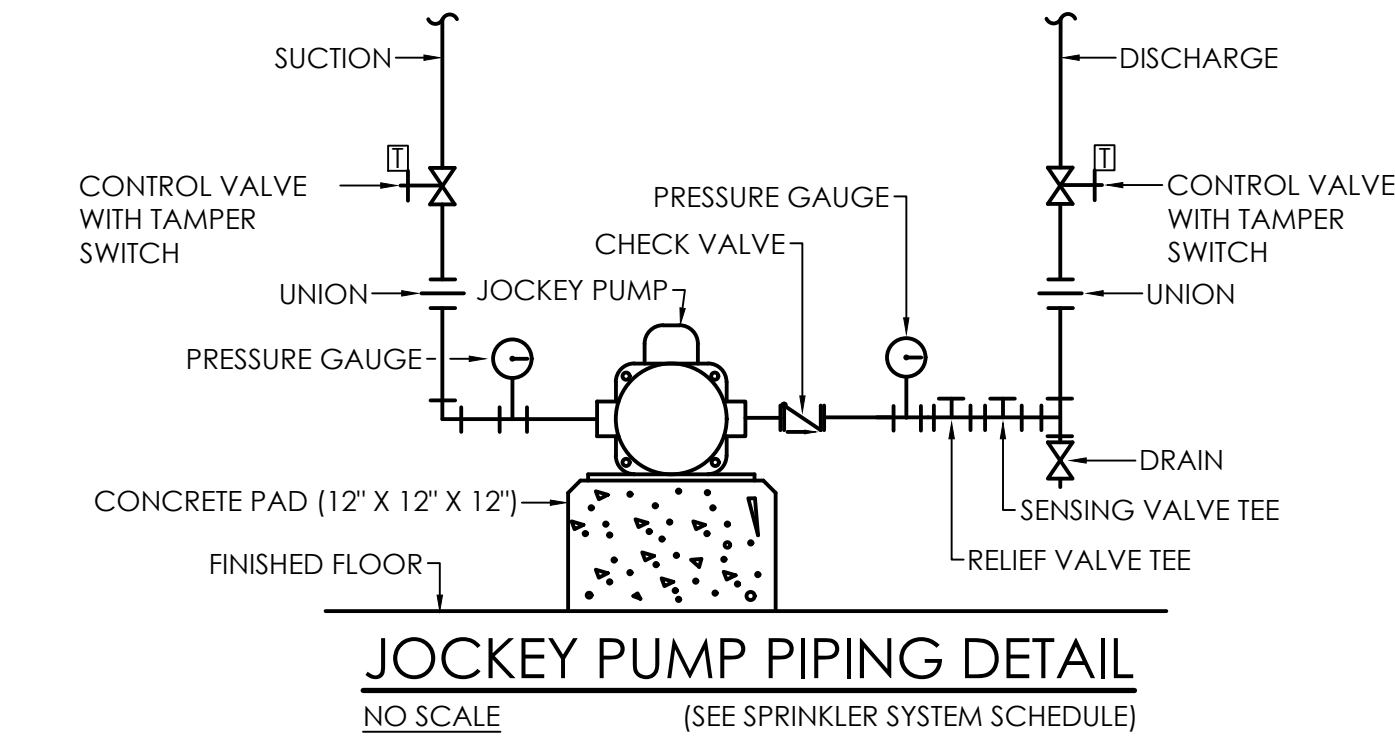
**SEQUENCE OF OPERATION:**

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. AT THIS TIME, THE JOCKEY PUMP AND FIRE PUMP SHALL REMAIN IN AUTO MODE AND AWAIT THE NEXT CALL FOR RUN.

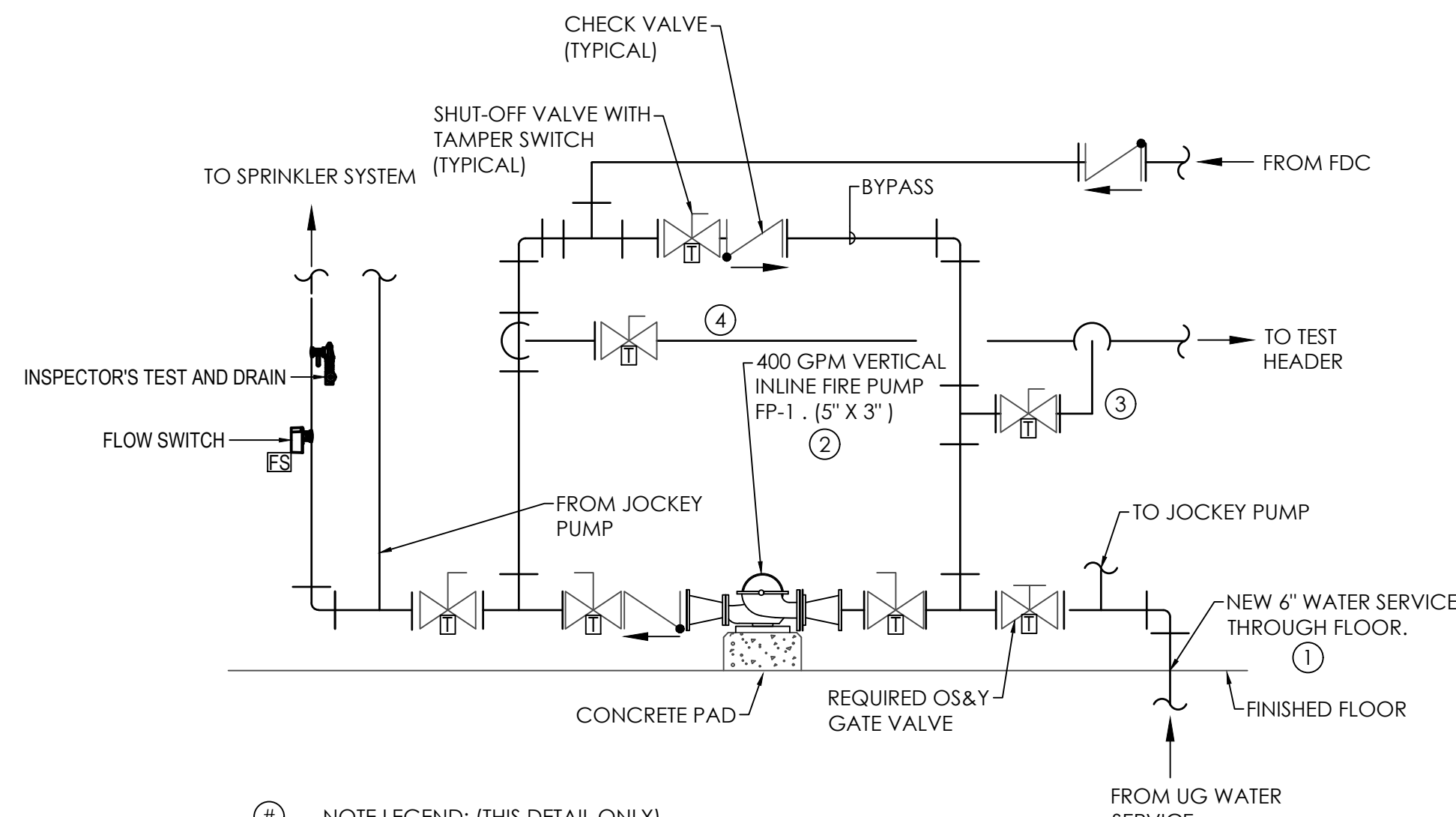
**FIRE PUMP PERFORMANCE:**

**PUMP FACTORY RATING:**  
GPM: 400  
PSI: 50

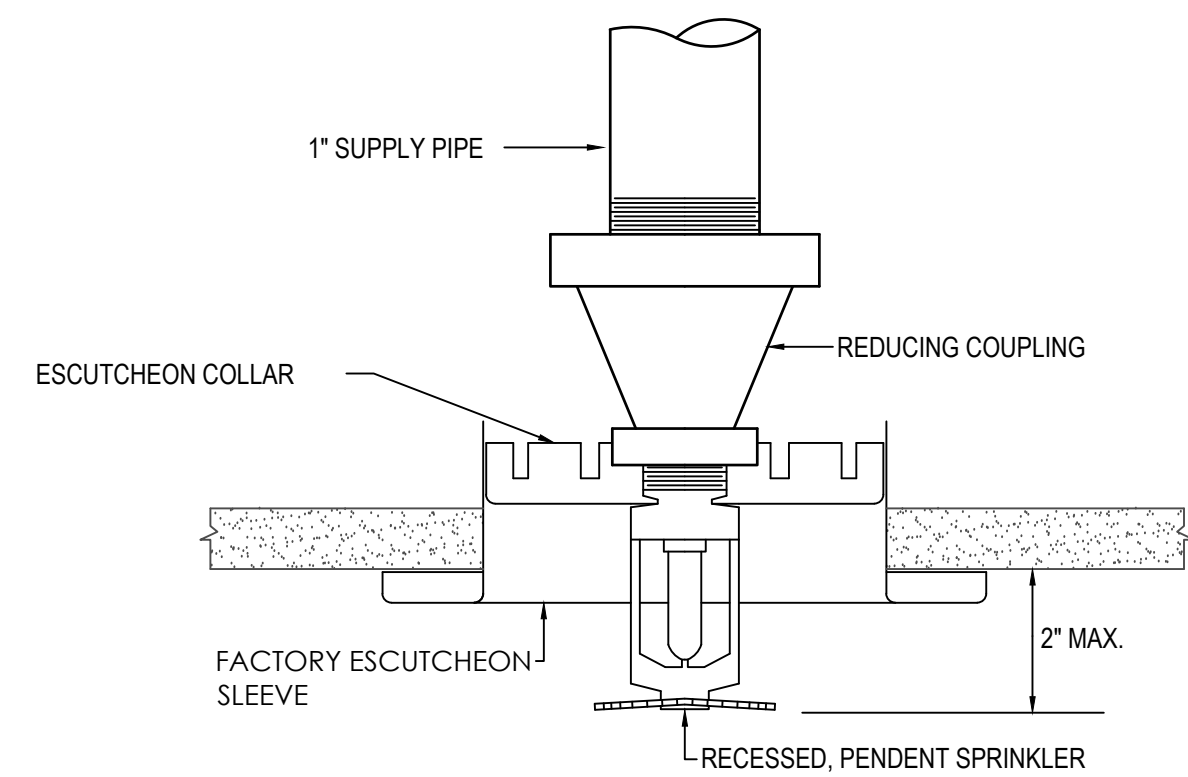
**TESTED PERFORMANCE REQUIRED:**  
GPM: 400 X 1.50 (150%) = 600  
PSI: 50 X .65 (65%) = 32.5



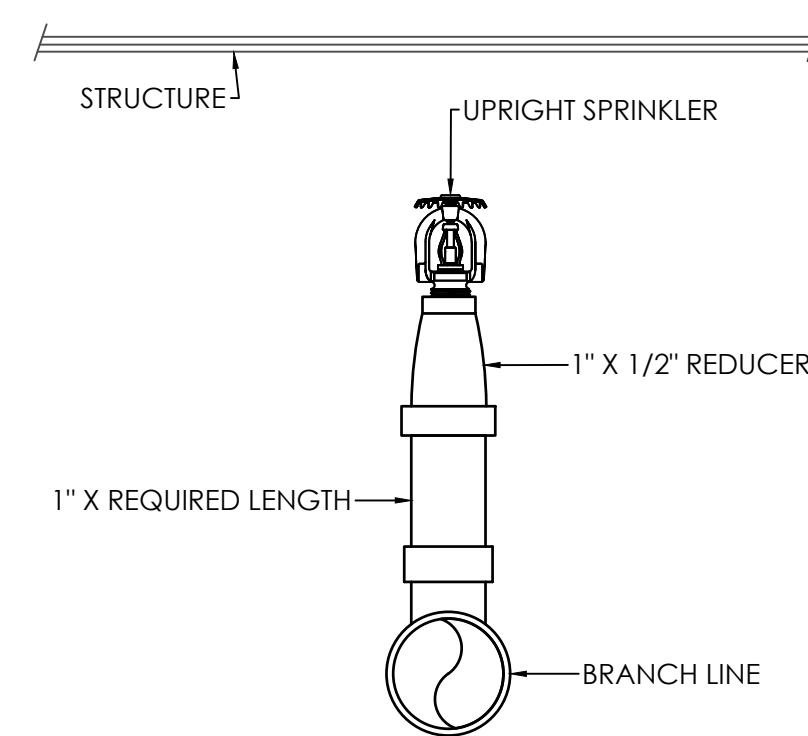
**JOCKEY PUMP PIPING DETAIL**  
NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)



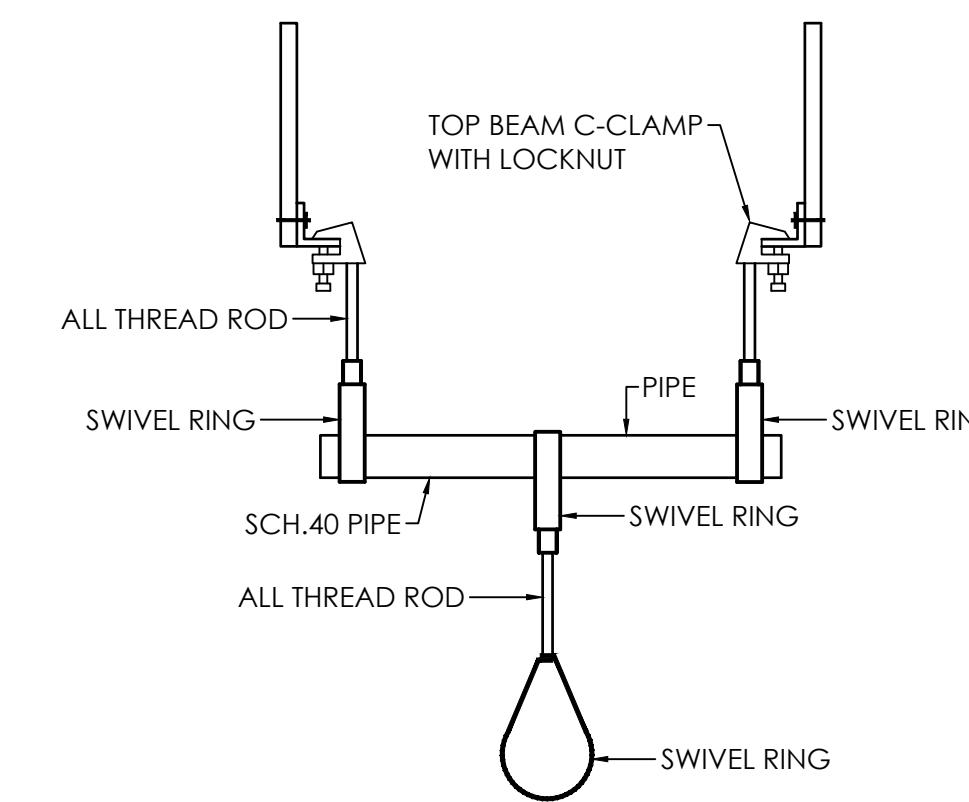
- NOTE LEGEND: (THIS DETAIL ONLY)**
1. CONTRACTOR HAS THE OPTION TO PROVIDE STAINLESS STEEL EXTENDED 90° FITTING, EQUAL TO "AMES SERIES 18R" IN BUILDING RISER. IN ORDER TO AVOID PIPE JOINTS UNDER THE FOUNDATION, FITTING SHALL BE "AV" AND "UC" LISTED
  2. PUMP INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF "NFPA-20"
  3. PIPING, FOR CONNECTION TO WALL MOUNTED TEST HEADER, TO PROVIDE FORWARD FLOW TESTING OF BACKFLOW PREVENTER.
  4. PIPING FOR CONNECTION TO WALL MOUNTED TEST HEADER TO BE USED DURING PUMP PERFORMANCE TESTING.



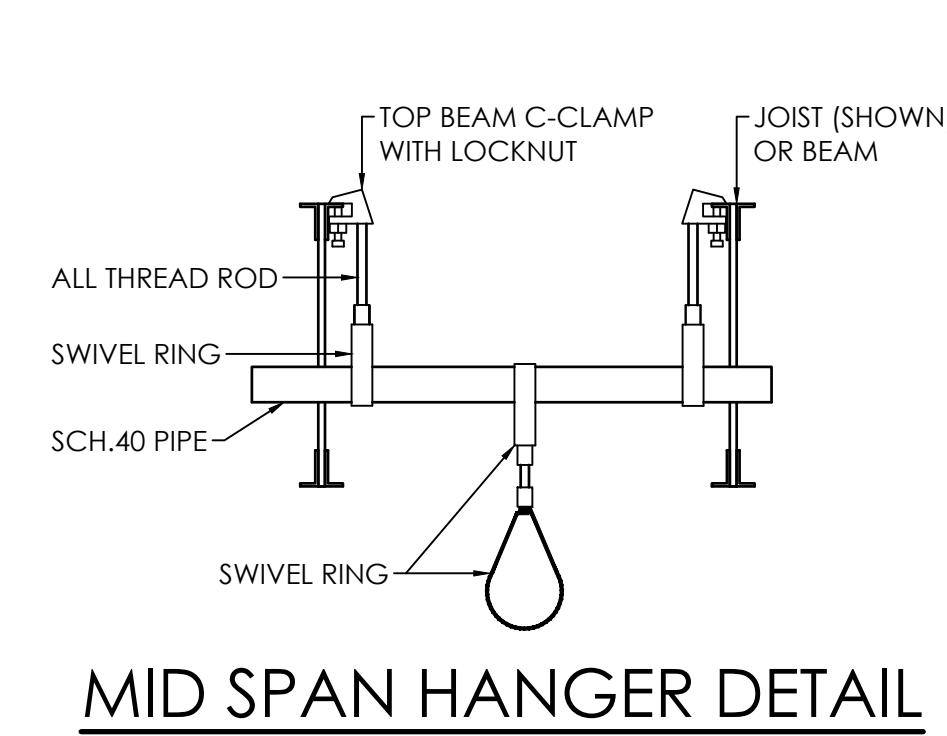
**RECESSED SPRINKLER DETAIL**  
NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)



**UPRIGHT SPRINKLER DETAIL**  
NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)



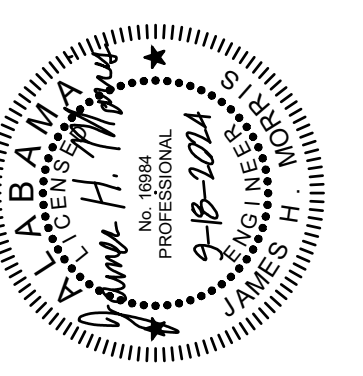
**MID SPAN HANGER DETAIL**  
NO SCALE



**TOP BEAM HANGER DETAIL**  
NO SCALE

NEW GYMNASIUM AT APPALACHIAN SCHOOL  
FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

**McKee and Associates**  
ARCHITECTS, INC.



SHEET TITLE : FIRE SPRINKLER - DETAILS & CALCULATIONS

MCKEE JOB # : 24-169

DRAWN BY : J.P.M.

DATE : 9.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

**MORRIS DAVIS**  
ENGINEERING LLC

903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **FP2.0**



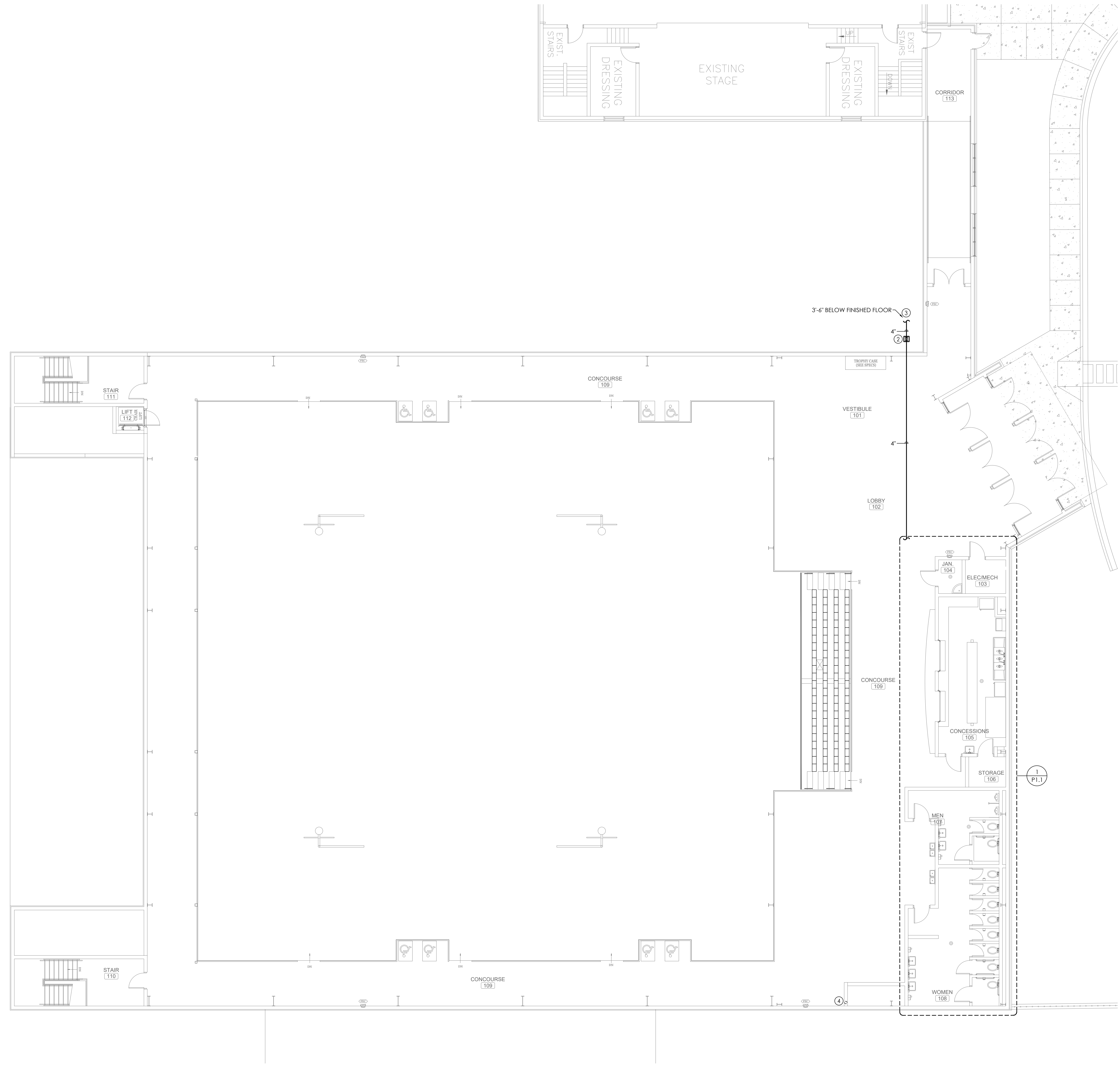
VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON.

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 COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

- Ⓢ NOTE LEGEND: (THIS SHEET ONLY)
1. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
  2. C.O.T.G. (SET IN 18"X18"X12" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME. (SEE DETAIL)
  3. SEE SITE UTILITY PLAN FOR CONTINUATION.
  4. 2" VENT FROM BELOW 2" V.T.R. (3'-0" MIN. CAST IRON)



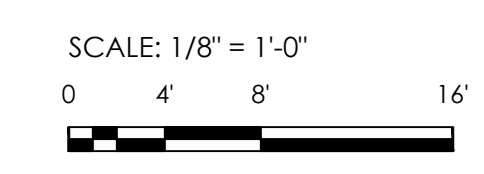
NEW GYMNASIUM AT APPALACHIAN SCHOOL  
FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

MCKEE and ASSOCIATES  
ARCHITECTS, INC.  
831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PLUMBING WASTE AND VENT PIPING FLOOR PLAN - MAIN LEVEL  
MCKEE JOB # : 24-169  
DRAWN BY : KS/RB  
DATE : 9/6/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

PLUMBING WASTE AND VENT PIPING PLAN - MAIN LEVEL  
SCALE: 1/8"=1'-0"



MORRIS DAVIS  
ENGINEERING LLC  
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MONTGOMERY, AL 36104  
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SHEET NO. : P1.1



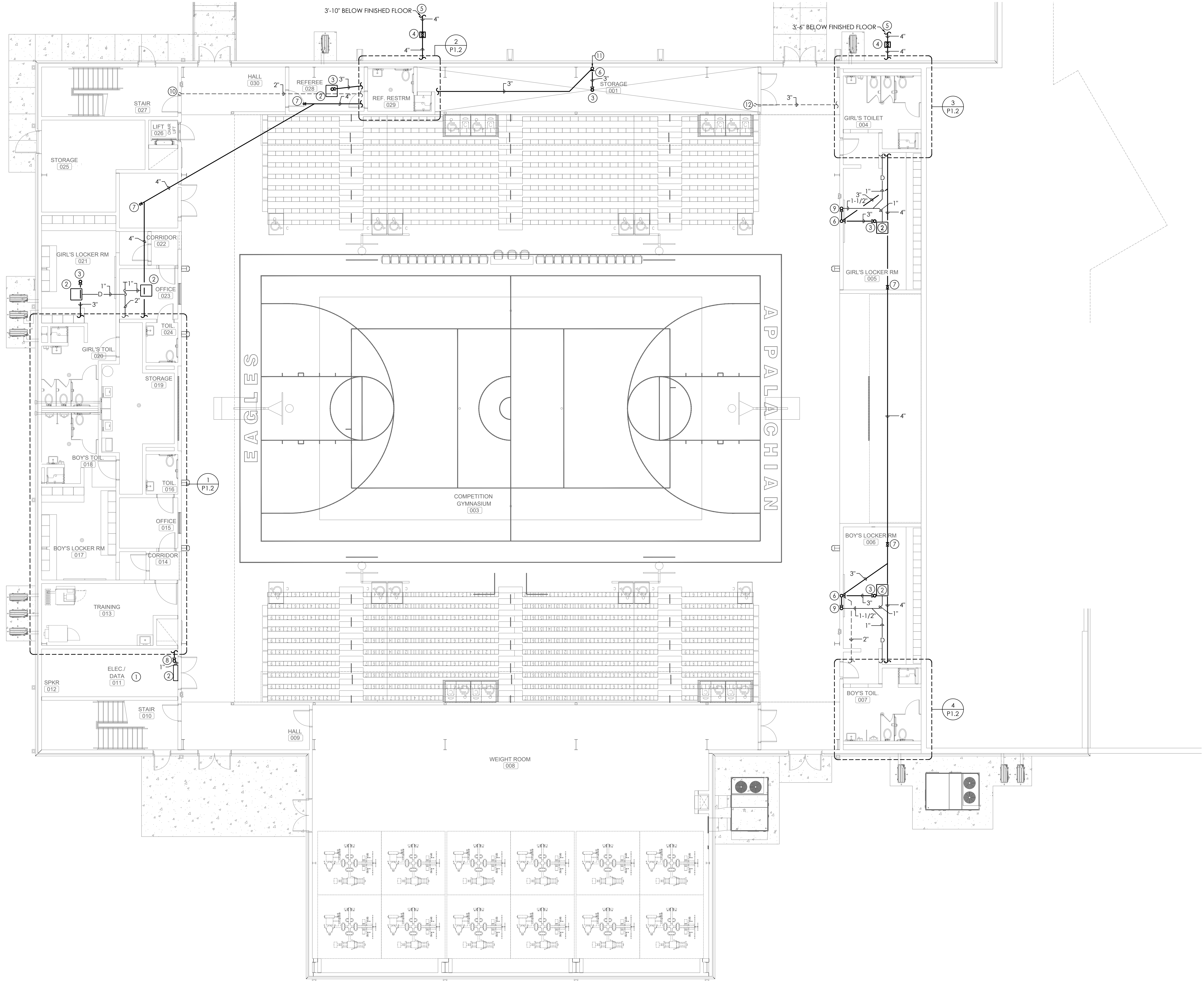
VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON.

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 COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

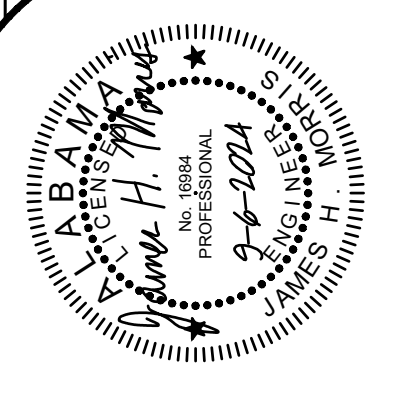
NOTE LEGEND: (THIS SHEET ONLY)

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. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
4. C.O.T.S. (SET IN 18"X18"X12" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME. SEE SITE UTILITY PLAN FOR CONTINUATION.
5. W.C.O.
6. F.C.O. (PROVIDE COVER AND FRAME)
7. 2"x3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER.) MOUNT 7'-0" A.F.F. (COORDINATE WITH UNIT MOUNTING HEIGHT.)
8. 2"x3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER AND VENTED ACCESS COVER.)
9. 2" VENT UP
10. 2" AUTO AIR VENT STRAP TO WALL
11. 3" AUTO AIR VENT STRAP TO WALL
12. 3" AUTO AIR VENT STRAP TO WALL



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FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PLUMBING WASTE AND VENT PIPING FLOOR PLAN - LOWER LEVEL

MCKEE JOB # : 24-169

DRAWN BY : BP/RB

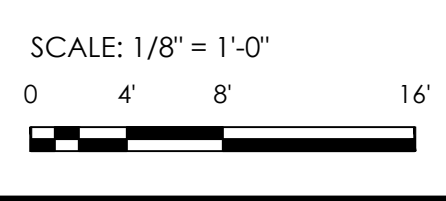
DATE : 9/6/24

REVISED DATE :

REVISED DATE :

REVISED DATE :

**PLUMBING WASTE AND VENT PIPING PLAN - LOWER LEVEL**  
SCALE: 1/8" = 1'-0"



**MORRIS DAVIS**  
ENGINEERING LLC  
903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

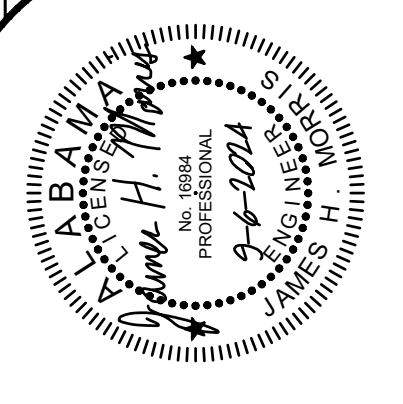
SHEET NO. : **P1.2**

- N:\2024 Jobs\24-088 Appalachian High School Gym\Drawings\Plumb\24-088 P1.dwg  
- Wednesday, September 18, 2024 2:12:59 PM



**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
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831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



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.

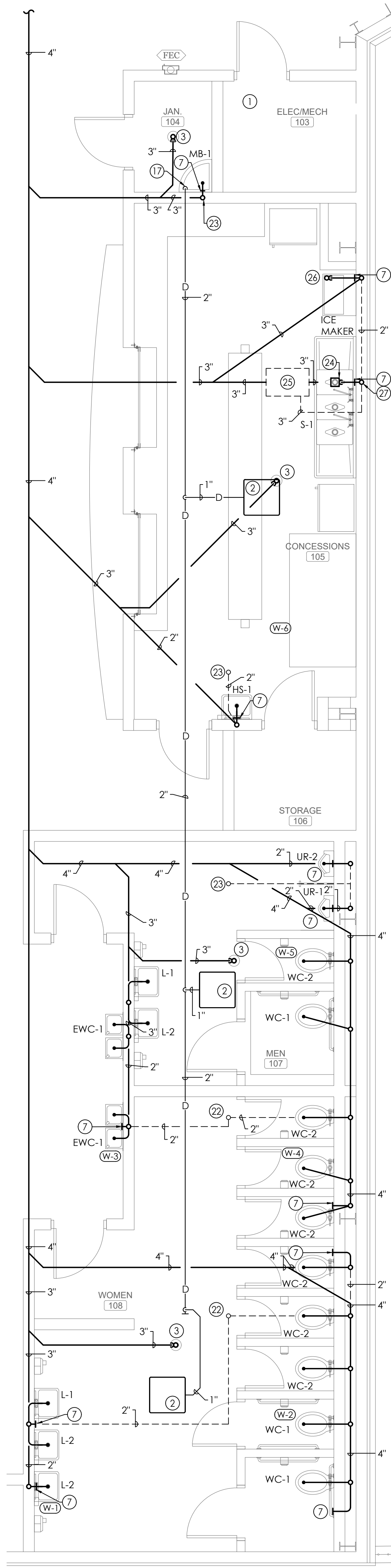
PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

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

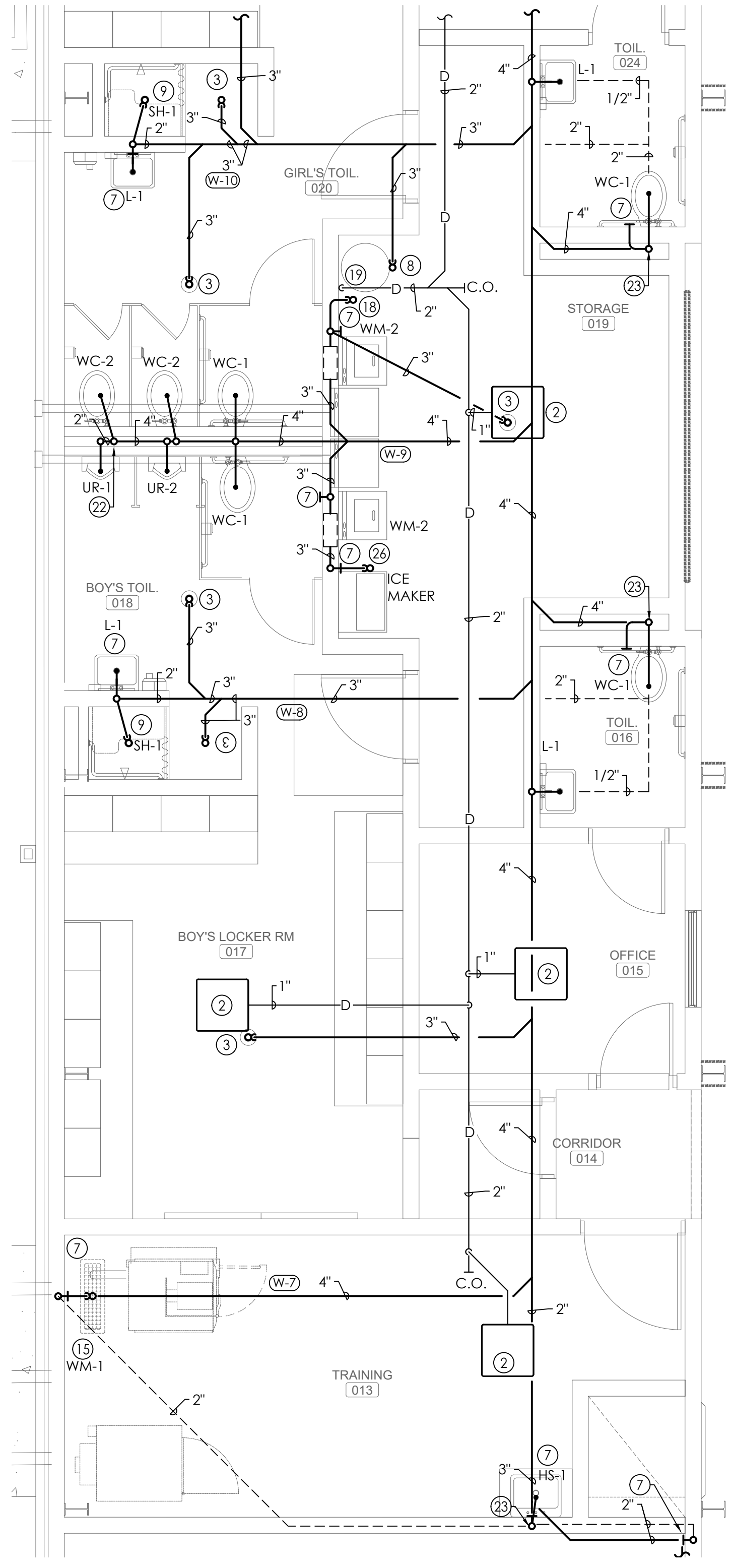
CONDENSATE PIPING TO BE COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

**NOTE LEGEND: (THIS SHEET ONLY)**

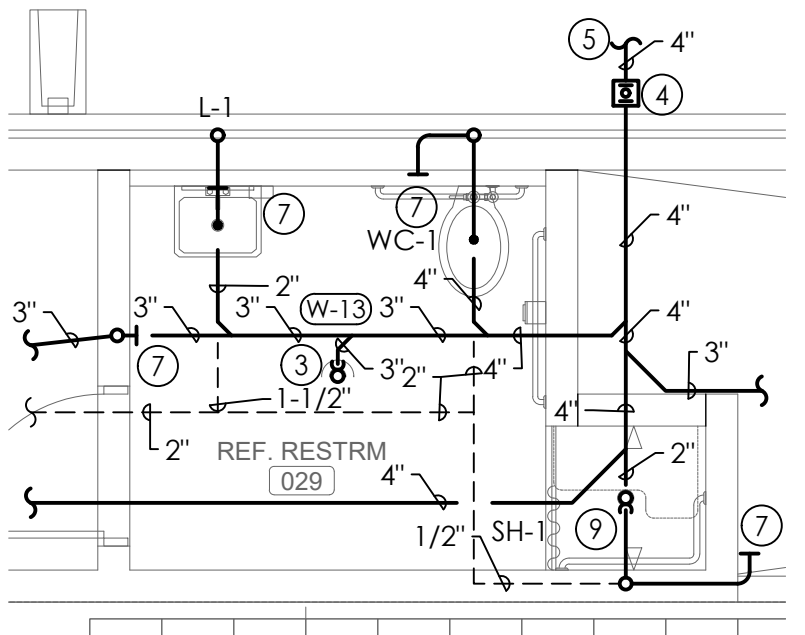
1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
4. C.O.T.G. (SET IN 18"X18"X12" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
5. SEE SITE UTILITY PLAN FOR CONTINUATION.
6. 2"X3" HUB DRAIN WITH INSULATED (1" THICK FIBERGLASS INSULATION) DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER.) MOUNT 7'-0" A.F.F. (COORDINATE WITH UNIT MOUNTING HEIGHT.)
7. W.C.O.
8. 3" FLOOR DRAIN. 6'-0" MIN. OF CAST IRON PIPE. PROVIDE FOR WATER HEATER RELIEF AND DRAIN LINES. (PROVIDE TRAP GUARD)
9. 2" SHOWER DRAIN.
10. 2" V.T.R. (3'-0" MIN. SECTION CAST IRON)
11. 4" V.T.R. (3'-0" MIN. SECTION CAST IRON)
12. 3" R. INTAKE. (IPEX 636)
13. 3" R. EXHAUST. (IPEX 636)
14. CONCENTRIC GAS V.T.R.
15. 48"X12"X18" TRENCH DRAIN FOR WM-1.
16. F.C.O.
17. 2" CONDENSATE LINE DOWN AND SPILL INTO MOP BASIN. STRAP TO WALL WITH UNISTRUT SUPPORT.
18. 5/4" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. PROVIDE TRAP PRIMER FOR CONDENSATE DRAIN.
19. 2" CONDENSATE LINE DOWN AND SPILL INTO HUB DRAIN. STRAP TO WALL WITH UNISTRUT SUPPORT.
20. 2" VENT UP
21. 2" VENT FROM BELOW
22. 4" V.T.R. (3'-0" MIN. SECTION OF CAST IRON)
23. 2" V.T.R. (3'-0" MIN. SECTION OF CAST IRON)
24. 3" FLOOR SINK (PROVIDE TRAP GUARD)
25. GREASE INTERCEPTOR IN FLOOR WITH ACCESS LID (ZURN MODEL 21160-900-50CFM-3")
26. 3" F.I.D. (PROVIDE TRAP PRIMER)
27. 3" V.T.R. (3'-0" MIN. SECTION CAST IRON)



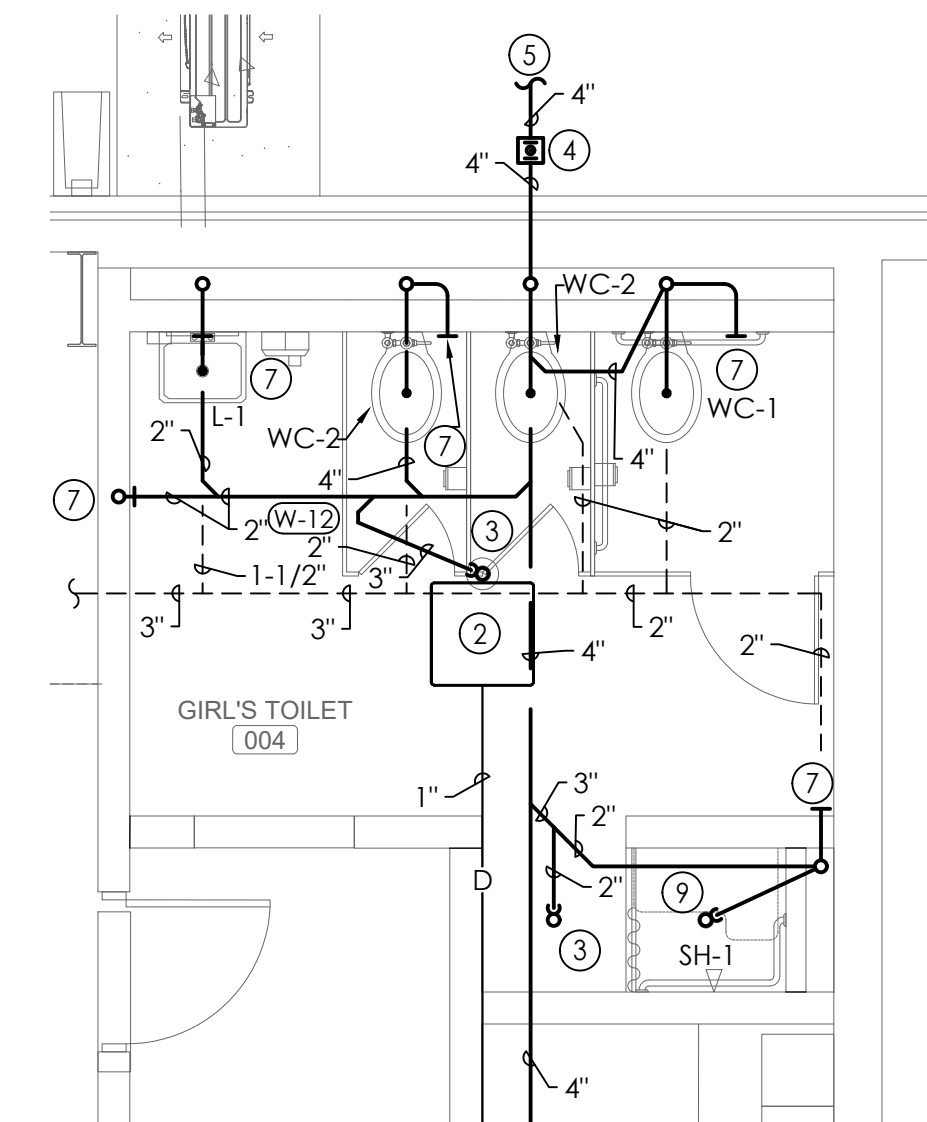
**1 P1.1**  
**ENLARGED PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 1/4"=1'-0"



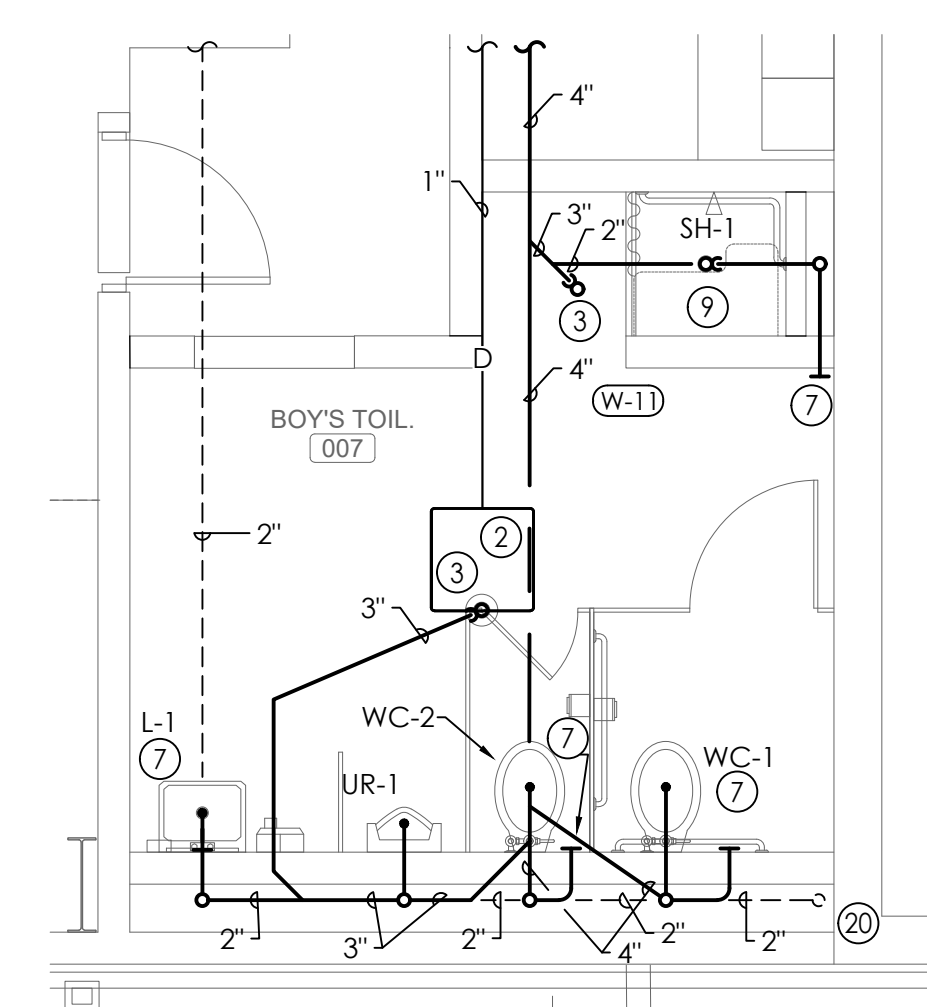
**1 P1.2**  
**ENLARGED PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 1/4"=1'-0"



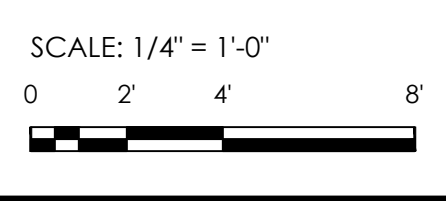
**2 P1.2**  
**ENLARGED PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 1/4"=1'-0"



**3 P1.2**  
**ENLARGED PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 1/4"=1'-0"



**4 P1.2**  
**ENLARGED PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 1/4"=1'-0"



**MORRIS DAVIS**  
**ENGINEERING LLC**  
903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

SHEET TITLE : ENLARGED PLUMBING WASTE AND VENT PIPING FLOOR PLANS  
MCKEE JOB # : 24-169  
DRAWN BY : KS/RB  
DATE : 9/6/24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **P1.3**



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.

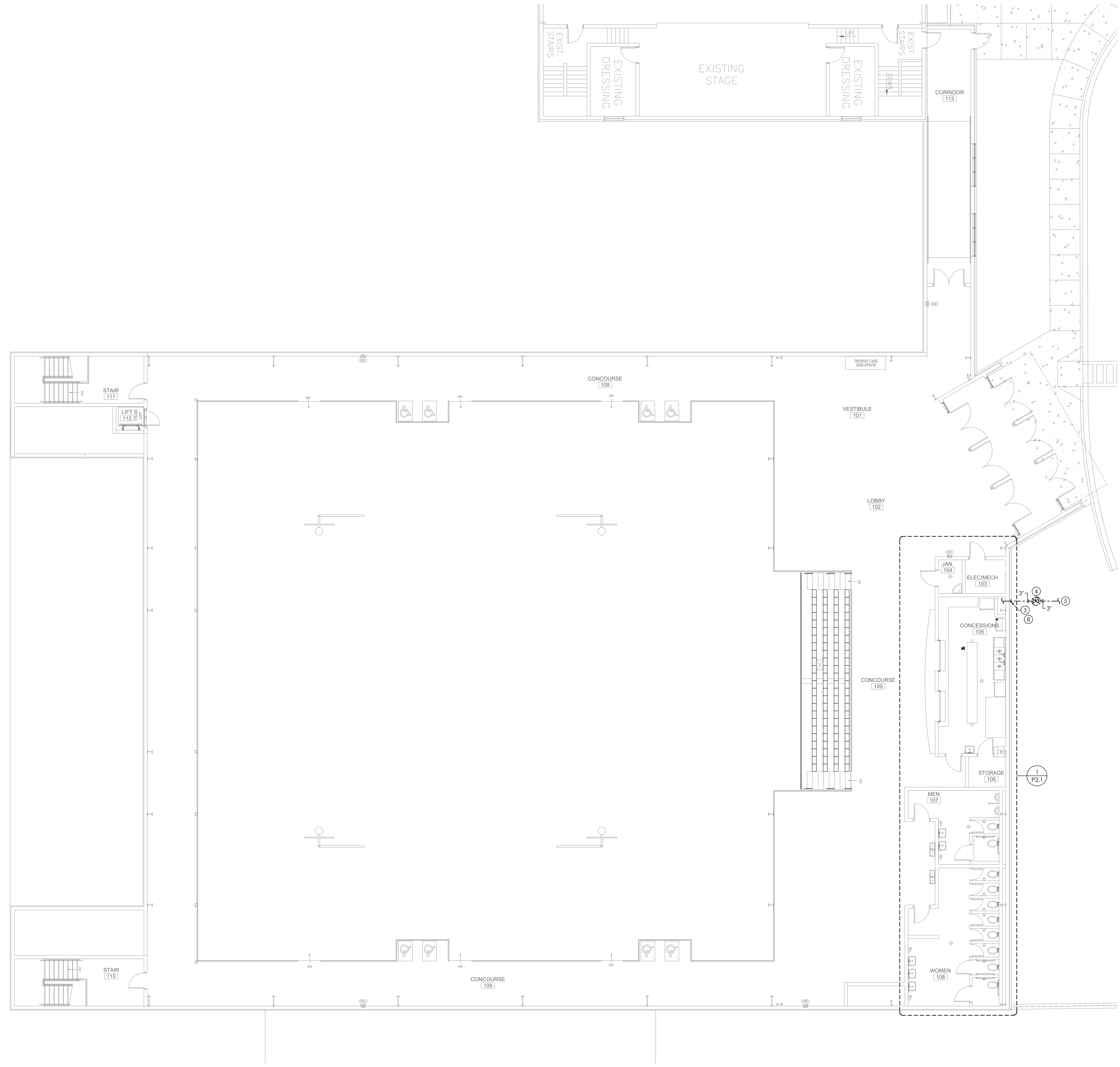
VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

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.

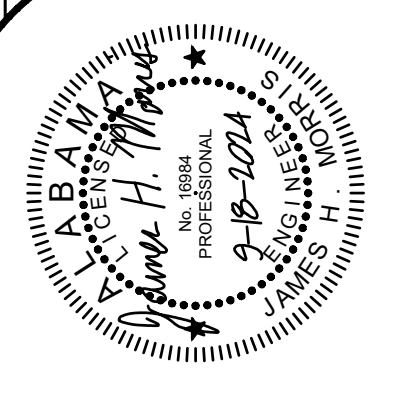
NOTE LEGEND: (THIS SHEET ONLY)

- ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL.)
- SITE UTILITY PLAN FOR CONTINUATION.



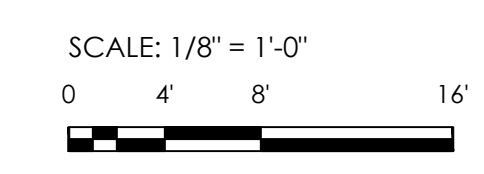
FOR THE  
**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PLUMBING WATER PIPING FLOOR PLAN - MAIN LEVEL  
 MCKEE JOB # : 24-169  
 DRAWN BY : KS/RB  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**PLUMBING WATER PIPING PLAN - MAIN LEVEL**  
 SCALE: 1/8"=1'-0"



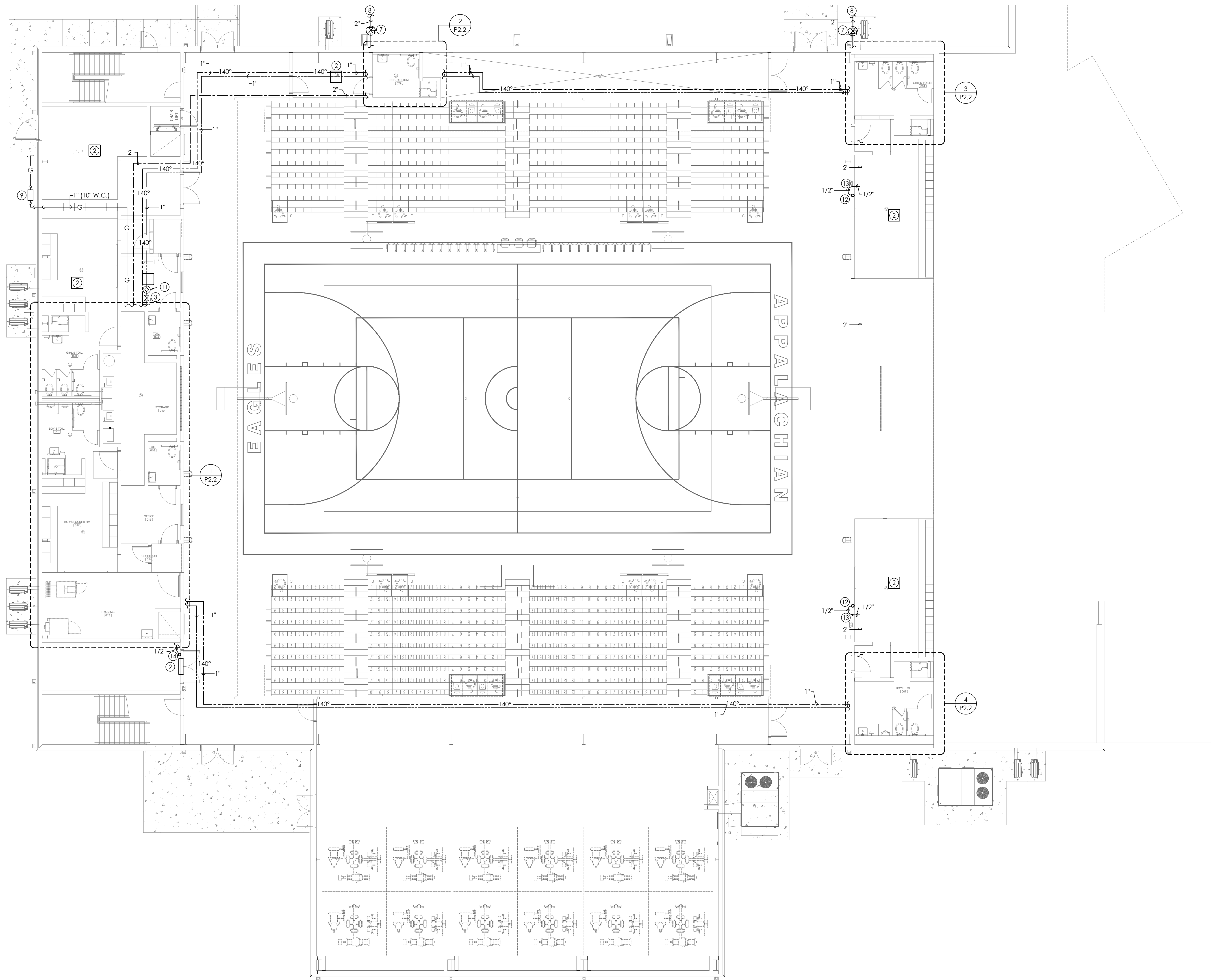
**MORRIS DAVIS**  
 ENGINEERING LLC  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **P2.1**

- N:\2024 Jobs\24-088 Appalachian High School Gym\Drawings\Plumb\24-088 P2.dwg  
 - Wednesday, September 18, 2024 2:13:04 PM



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- Wednesday, September 18, 2024 2:13:05 PM



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.

GAS PIPING IS SIZED USING TABLE 402.4(4) (10"W/C) FROM THE 2018 INTERNATIONAL FUEL GAS CODE (SCHED 40 STEEL PIPING AT 2PSI INLET PRESSURE). THE LENGTH OF PIPING FROM THE BUILDING METER TO THE FURTHEST EQUIPMENT CONNECTION IS APPROXIMATELY 100'-0". ANY CHANGE IN MATERIALS OR ROUTING WILL REQUIRE RECALCULATION OF REQUIRED PIPE SIZES. FOR A TOTAL/FUTURE LOAD = 300 MBH LOAD.

GAS SYSTEM SHALL BE INSTALLED BY A LICENSED GAS TECHNICIAN.

ALL GAS PIPING BELOW GRADE AND SLAB SHALL BE SLEEVED AND VENTED. TRACPIPE P-11, BLACK STEEL OR EQUAL. ALL GAS PIPING ABOVE GRADE SHALL BE TRAC PIPE COUNTER STRIKE, BLACK STEEL OR EQUAL.

GAS PIPING EXPOSED (AREAS WITHOUT CEILINGS) SHALL BE PAINTED FLAT BLACK WITH ONE COAT OF PRIMER AND ONE COAT OF ENAMEL PAINT. LABEL GAS LINES.

NOTE LEGEND: (THIS SHEET ONLY)

- ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"x12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
- WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
- GAS REGULATOR, 2PSI TO 14"W.C. CONTRACTOR TO PROVIDE REGULATOR TAG WITH INCOMING AND OUTGOING PRESSURE.
- GAS VALVE.
- BALL VALVE IN CONCRETE VALVE BOX AND PRV. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL.)
- SITE UTILITY PLAN FOR CONTINUATION.
- GAS METER. (COORDINATE LOCATION WITH LOCAL UTILITY)(300 MBH)
- SLEEVED AND VENTED.
- BALANCING VALVE IN CONCRETE VALVE BOX AND PRV. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL.)
- 2"x3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER AND VENTED ACCESS COVER.)
- TRAP PRIMER. EXPOSED. MOUNT HIGH ON WALL. COORDINATE HEIGHT WITH HUB DRAINS.
- 2"x3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER.) MOUNT 7'-0" A.F.F. (COORDINATE WITH UNIT MOUNTING HEIGHT.)

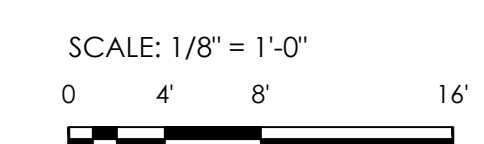
NEW GYMNASIUM AT APPALACHIAN SCHOOL  
FOR THE  
BLOUNT COUNTY BOARD OF EDUCATION  
ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PLUMBING WATER PIPING FLOOR PLAN - LOWER LEVEL  
MCKEE JOB # : 24-169  
DRAWN BY : KS/RB  
DATE : 9.18.24  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

**PLUMBING WATER PIPING PLAN - LOWER LEVEL**  
SCALE: 1/8"=1'-0"



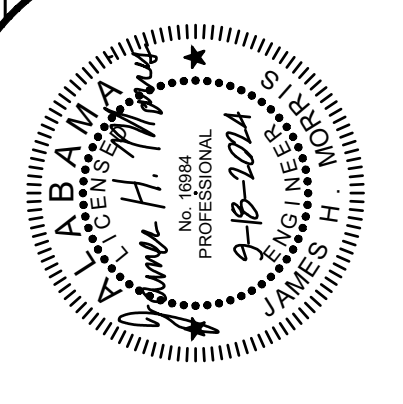
**MORRIS DAVIS**  
ENGINEERING LLC  
903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **P2.2**

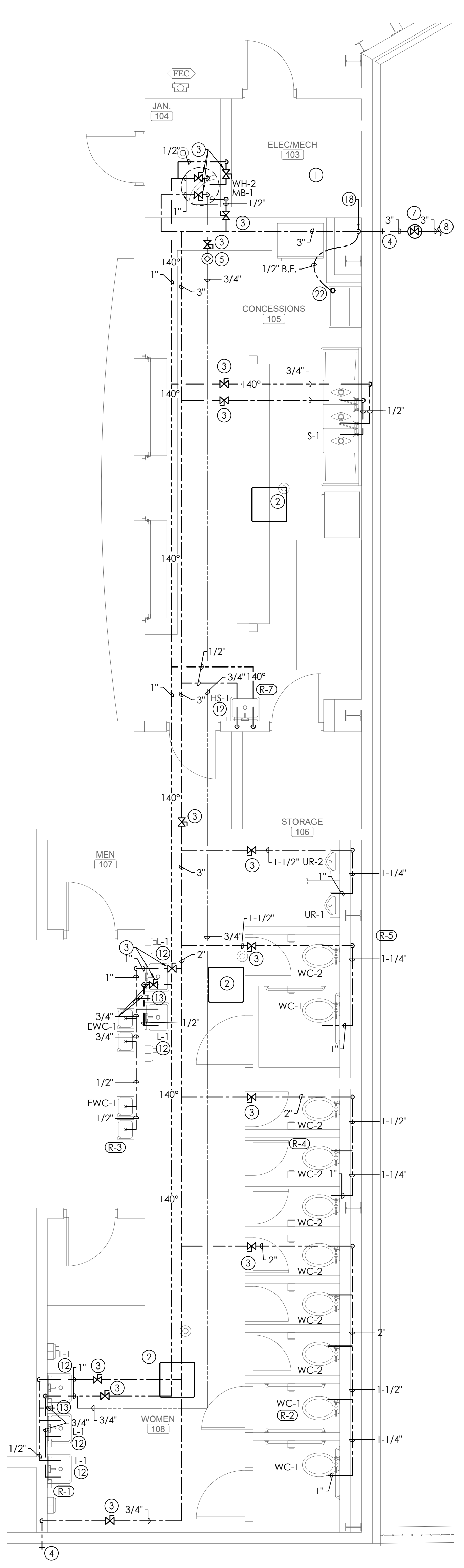


FOR THE  
**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

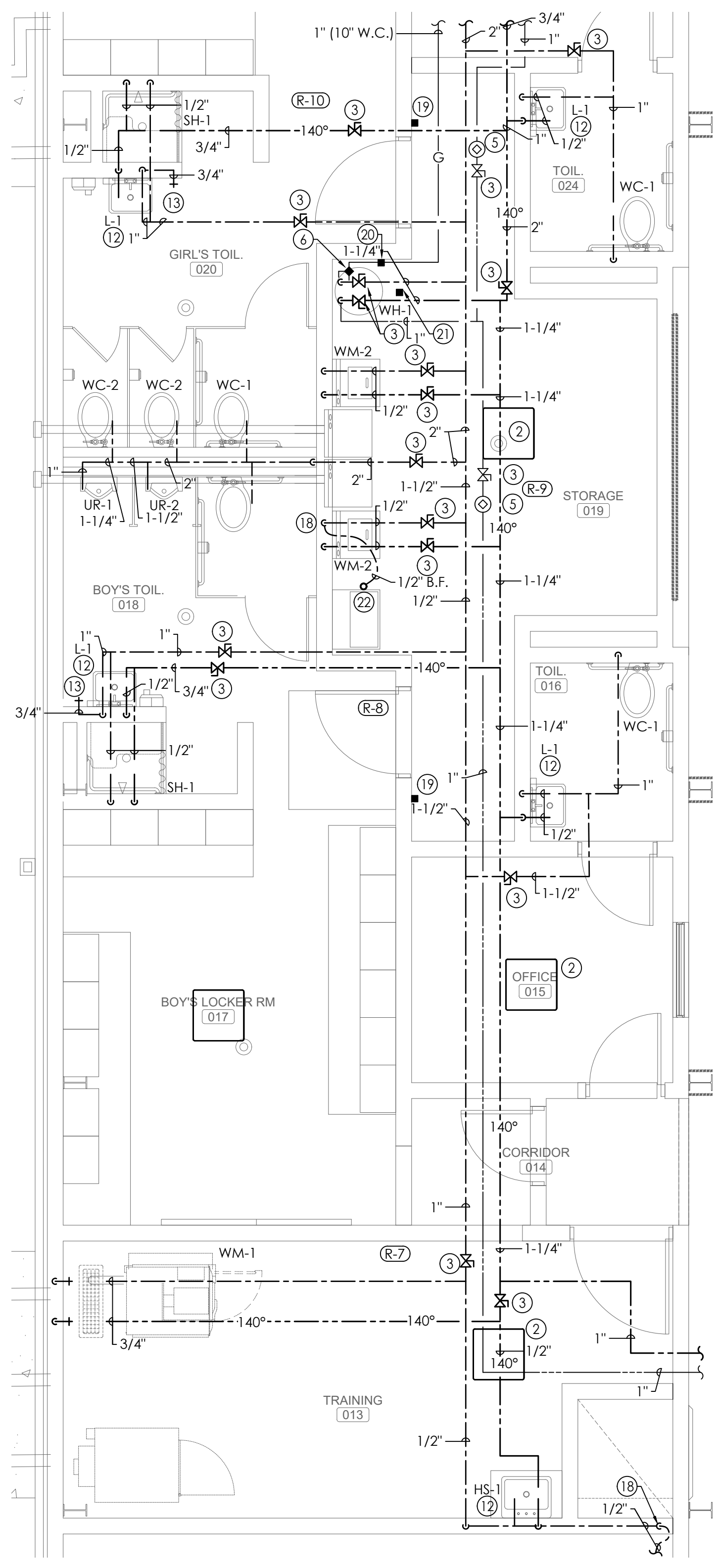
**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



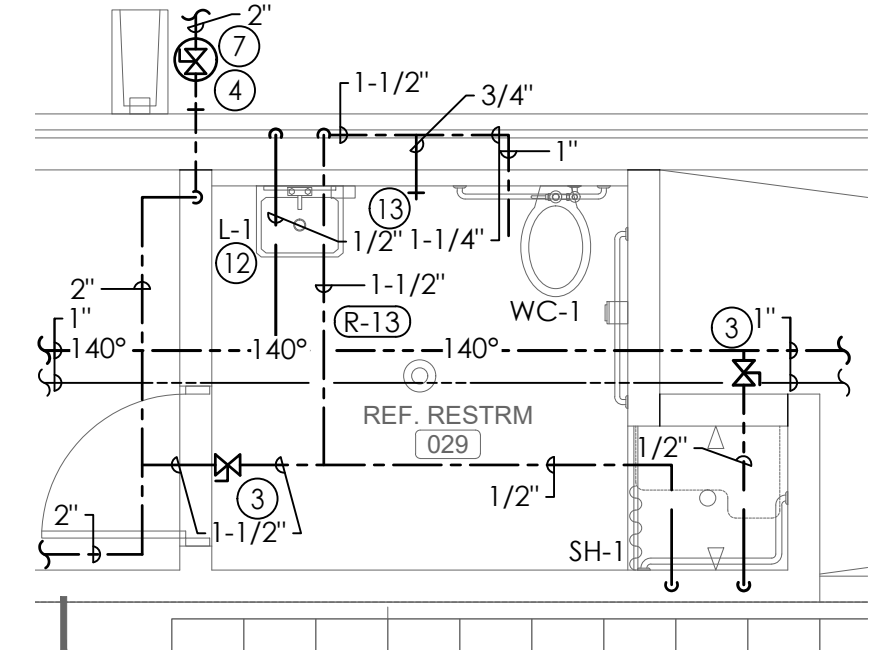
- FIRE STOP** ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.
- ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.
- VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAI-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.
- GAS PIPING IS SIZED USING TABLE 402.4(4) (10"W.C.) FROM THE 2018 INTERNATIONAL FUEL GAS CODE (SCHED 40 STEEL PIPING AT 2PSI INLET PRESSURE). THE LENGTH OF PIPING FROM THE BUILDING METER TO THE FURTHEST EQUIPMENT CONNECTION IS APPROXIMATELY 100'-0". ANY CHANGE IN MATERIALS OR ROUTING WILL REQUIRE RECALCULATION OF REQUIRED PIPE SIZES. FOR A TOTAL/ FUTURE LOAD = 300 MBH LOAD.
- GAS SYSTEM SHALL BE INSTALLED BY A LICENSED GAS TECHNICIAN.
- ALL GAS PIPING BELOW GRADE AND SLAB SHALL BE SLEEVED AND VENTED. TRACPIPE P-11, BLACK STEEL OR EQUAL. ALL GAS PIPING ABOVE GRADE SHALL BE TRAC PIPE COUNTER STRIKE, BLACK STEEL OR EQUAL.
- GAS PIPING EXPOSED (AREAS WITHOUT CEILINGS) SHALL BE PAINTED FLAT BLACK WITH ONE COAT OF PRIMER AND ONE COAT OF ENAMEL PAINT. LABEL GAS LINES.
- NOTE LEGEND: (THIS SHEET ONLY)**
- ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
  - MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
  - BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
  - WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
  - BALANCING VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
  - GAS VALVE.
  - BALL VALVE IN 18"X18"X12" CONCRETE VALVE BOX AND PRV. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL.)
  - SITE UTILITY PLAN FOR CONTINUATION.
  - 4" FLOOR DRAIN. (PROVIDE TRAP PRIMER.)
  - GAS METER.
  - SLEEVED AND VENTED.
  - PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW38/DXLT OR LEONARD 170D-LF-BRKT UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
  - H.B. (HOSE BIBB)
  - TRAP PRIMER. EXPOSED. MOUNT LOW ON WALL.
  - 2"X3" HUB DRAIN WITH INSULATED DEEP SEAL P-RAP. (PROVIDE TRAP PRIMER.) MOUNT 7'-0" A.F.F. (COORDINATE WITH UNIT MOUNTING HEIGHT).
  - TRAP PRIMER WITH 12"X12" ACCESS PANEL. COORDINATE HEIGHT WITH HUB DRAINS.
  - GAS SHUTOFF VALVE (INTERLOCK WITH SOLENOID VALVE IN GAS LINE)
  - SOLENOID VALVE FOR EMERGENCY SHUTOFF
  - CARBON MONOXIDE SENSOR
  - 3" F.D. (PROVIDE TRAP PRIMER)



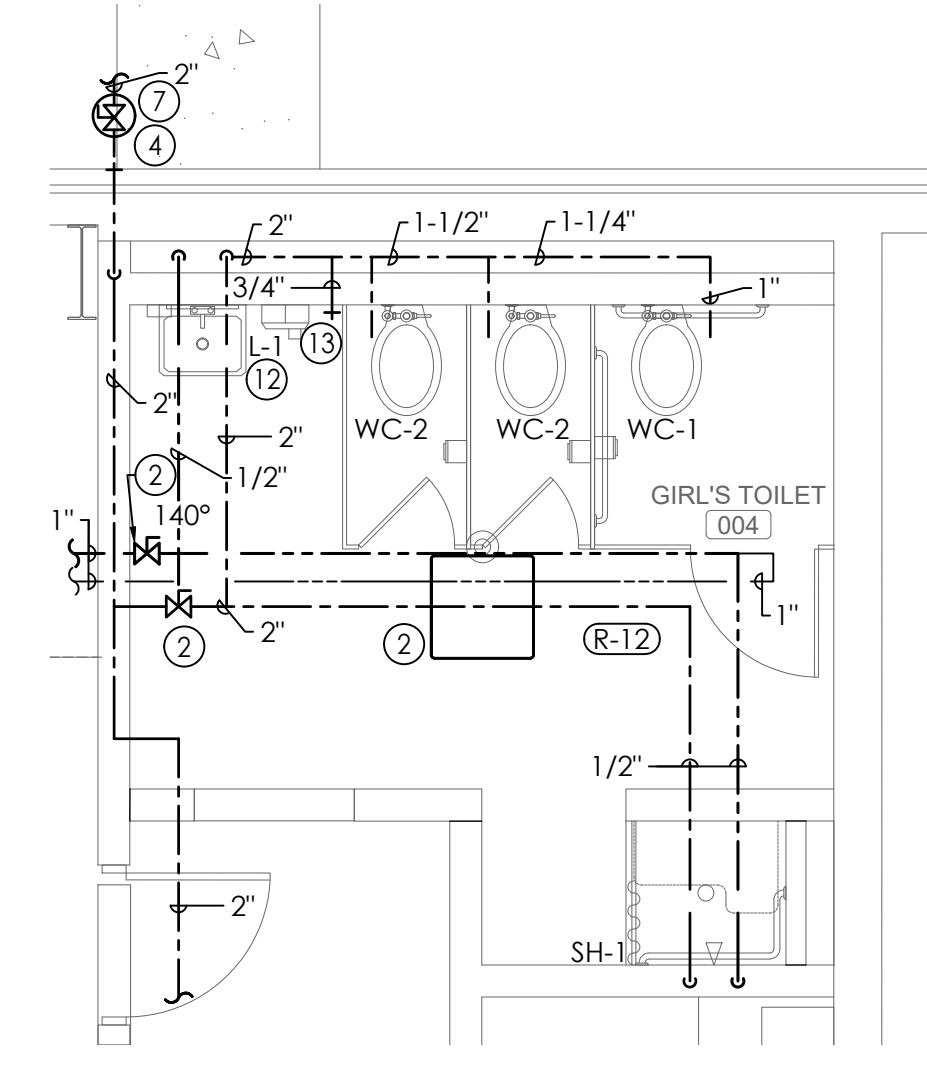
**1 P2.1 ENLARGED PLUMBING WATER PIPING PLAN**  
 SCALE: 1/4"=1'-0"



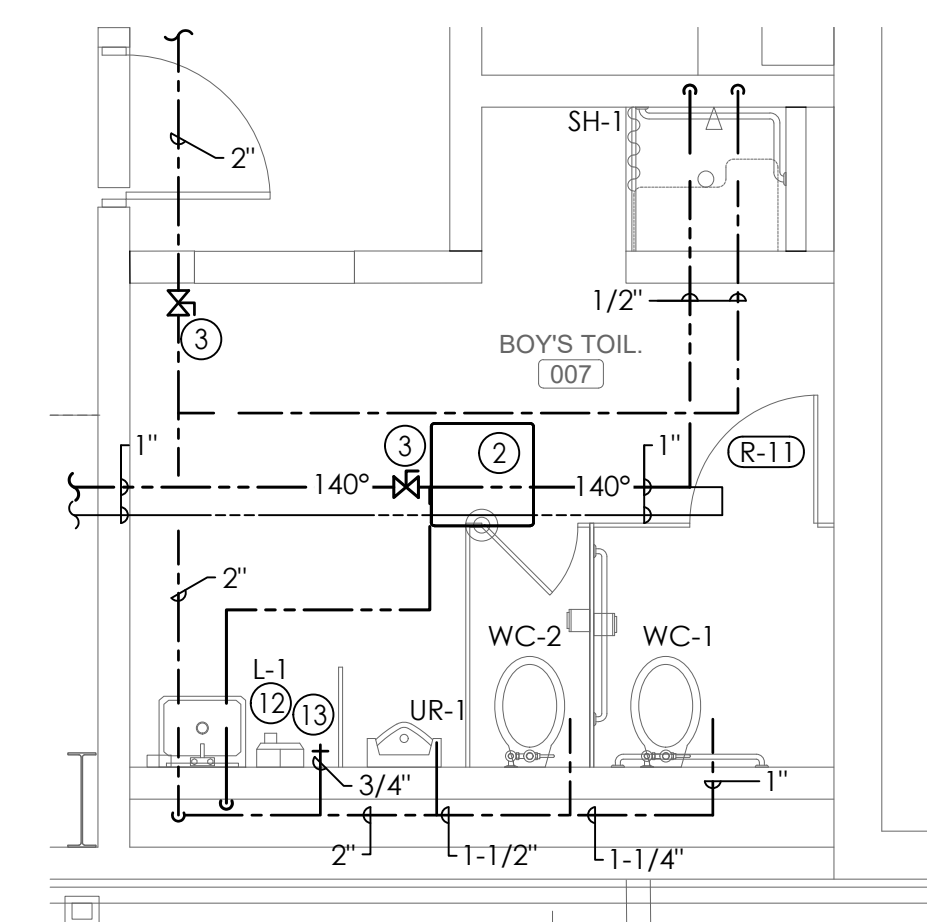
**1 P2.2 ENLARGED PLUMBING WATER PIPING PLAN**  
 SCALE: 1/4"=1'-0"



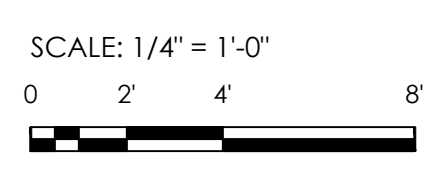
**2 P2.2 ENLARGED PLUMBING WATER PIPING PLAN**  
 SCALE: 1/4"=1'-0"



**3 P2.2 ENLARGED PLUMBING WATER PIPING PLAN**  
 SCALE: 1/4"=1'-0"



**4 P2.2 ENLARGED PLUMBING WATER PIPING PLAN**  
 SCALE: 1/4"=1'-0"



**MORRIS DAVIS ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088

SHEET TITLE : ENLARGED PLUMBING WATER PIPING FLOOR PLANS  
 MCKEE JOB # : 24-169  
 DRAWN BY : KS/RB  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

SHEET NO. : **P2.3**



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.

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 COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

- (#) NOTE LEGEND: (THIS SHEET ONLY)
- ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
  - MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
  - 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
  - C.O.I.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
  - SEE SITE UTILITY PLAN FOR CONTINUATION.
  - 2"X3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. (PROVIDE TRAP PRIMER.) MOUNT 7'-0" A.F.F. (COORDINATE WITH UNIT MOUNTING HEIGHT.)
  - W.C.O.
  - 3" FLOOR DRAIN. 6'-0" MIN. OF CAST IRON PIPE. PROVIDE FOR WATER HEATER RELIEF AND DRAIN LINES. (PROVIDE TRAP GUARD)
  - 2" SHOWER DRAIN.
  - 2" V.T.R. (3'-0" MIN. CAST IRON)
  - 4" V.T.R. (3'-0" MIN. CAST IRON)
  - 3" R. INTAKE.
  - 3" R. EXHAUST.
  - CONCENTRIC GAS V.T.R.
  - 48"X12"X18" TRENCH DRAIN FOR WM-1.
  - F.C.O.
  - 3"X4" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP. PROVIDE TRAP PRIMER FOR CONDENSATE DRAIN.
  - BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
  - PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW870KIT OR LEONARD 170D-LF-BRKT UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
  - WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
  - H.B. (HOSE BIBB)
  - BALL VALVE IN 18"X18"X12" CONCRETE VALVE BOX AND PRV. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL.)
  - BALANCING VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
  - 3" F.D. (PROVIDE TRAP PRIMER)
  - 3" FLOOR SINK (PROVIDE TRAP GUARD)
  - GREASE INTERCEPTOR IN FLOOR WITH ACCESS LID (ZURN MODEL 71160-800-SGCPH-3T)
  - 3" V.T.R. (3'-0" MIN. CAST IRON)
  - TRAP PRIMER. 12"X12" ACCESS PANEL. MOUNT LOW ON WALL. COORDINATE HEIGHT WITH HUB DRAIN/S.

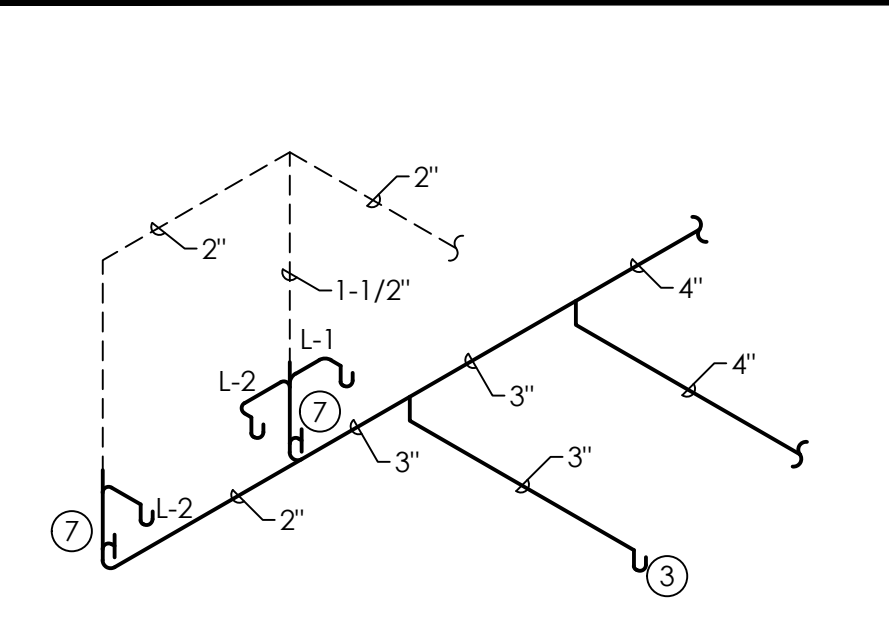
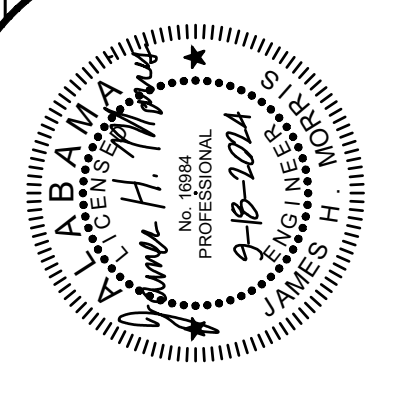
NEW GYMNASIUM AT APPALACHIAN SCHOOL

BLOUNT COUNTY BOARD OF EDUCATION

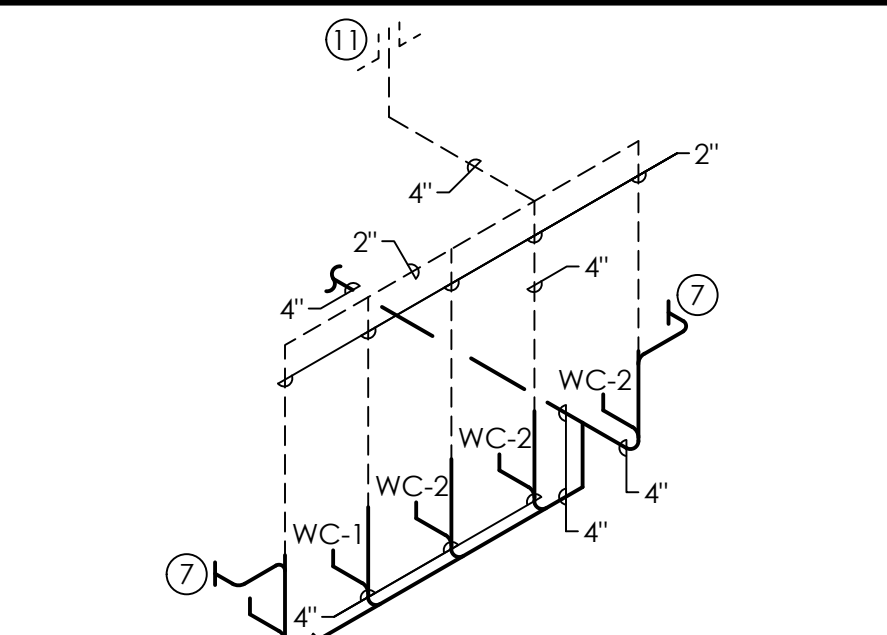
ONEONTA, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

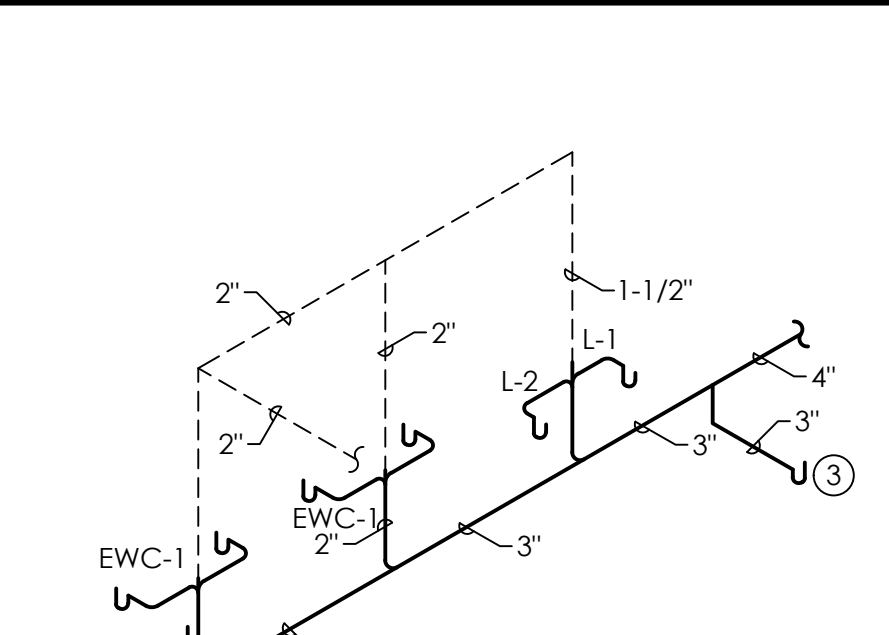
831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



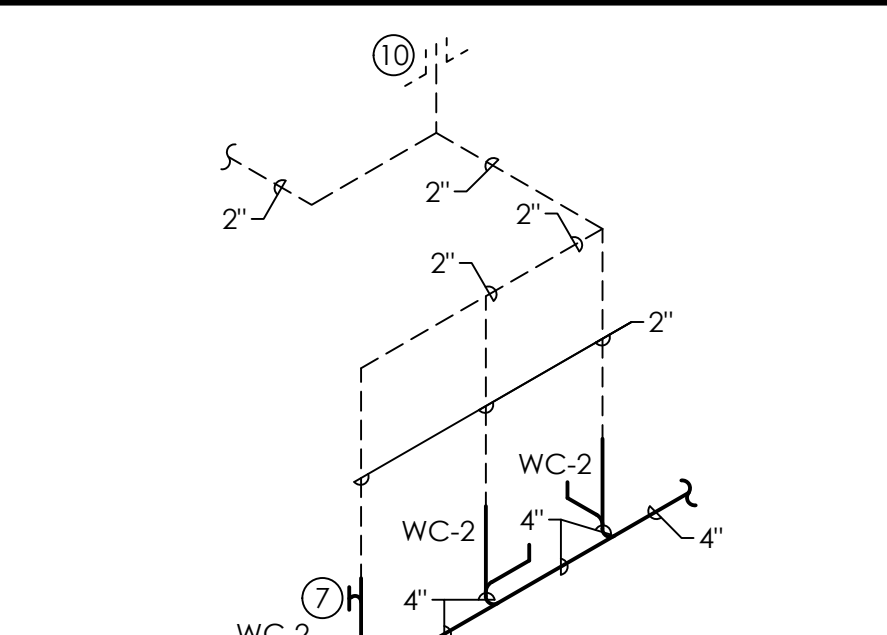
WASTE AND VENT RISER (W-1)  
NO SCALE



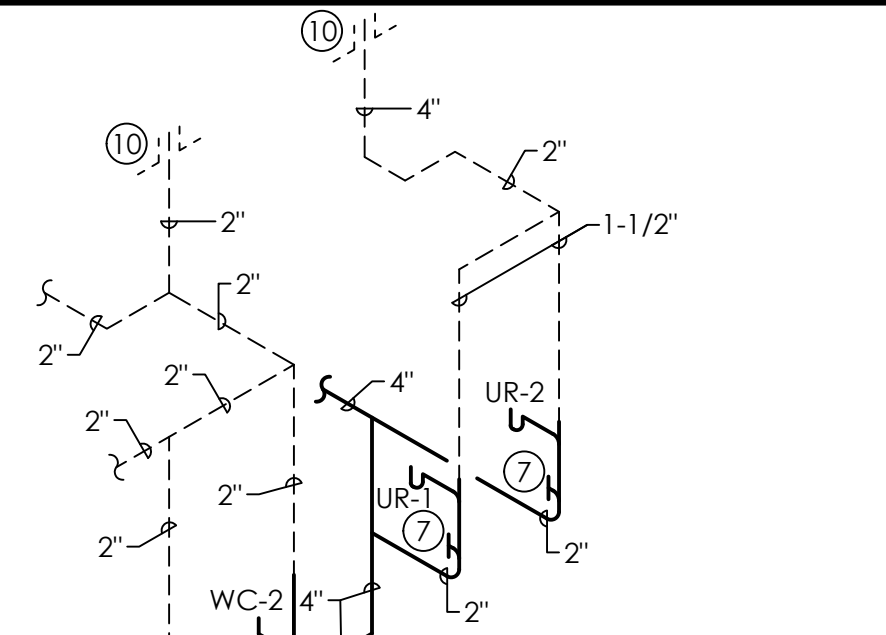
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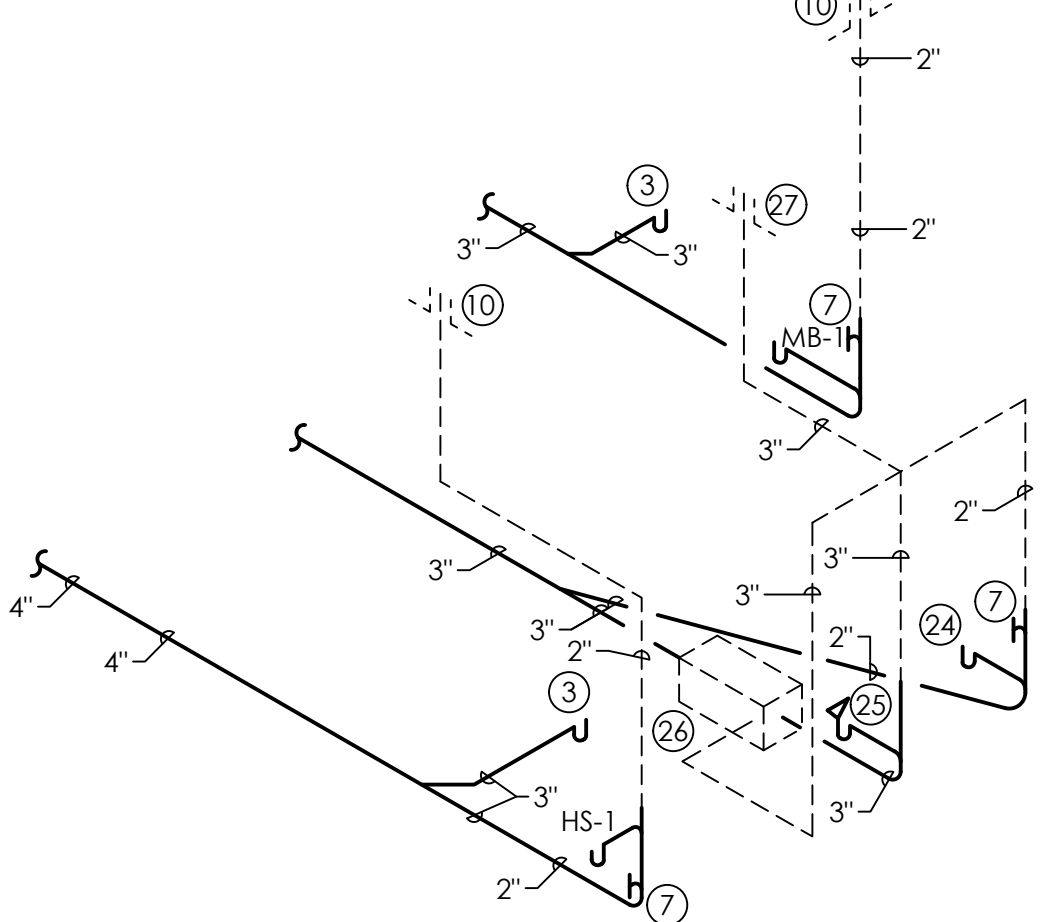
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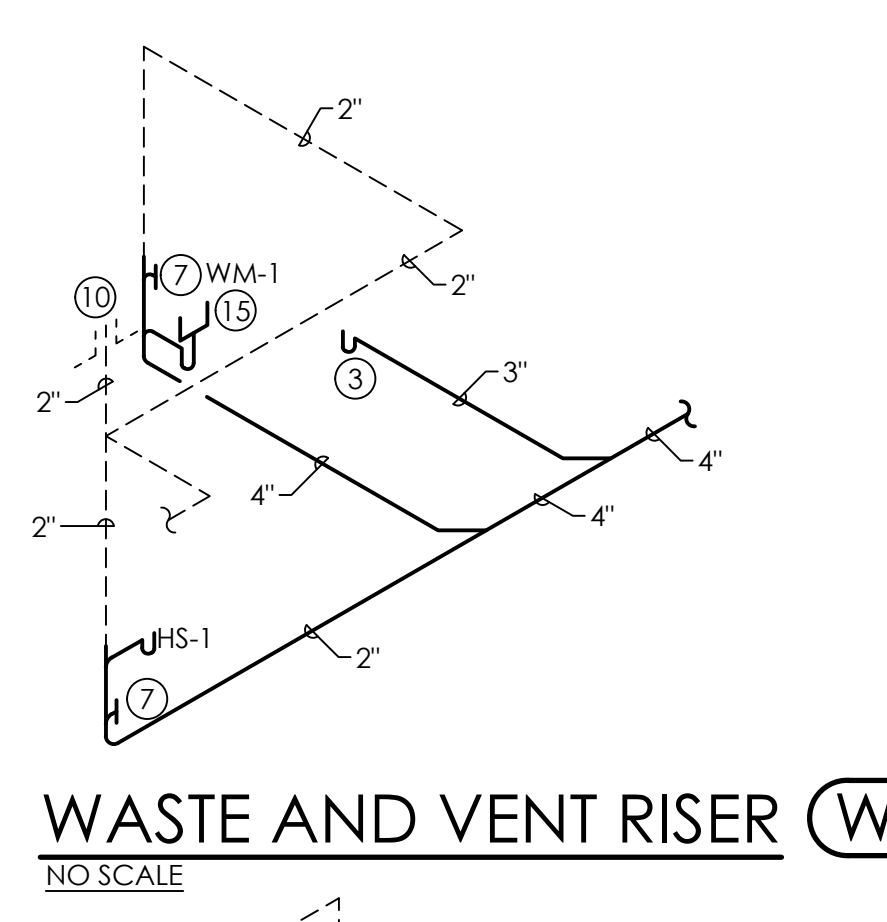
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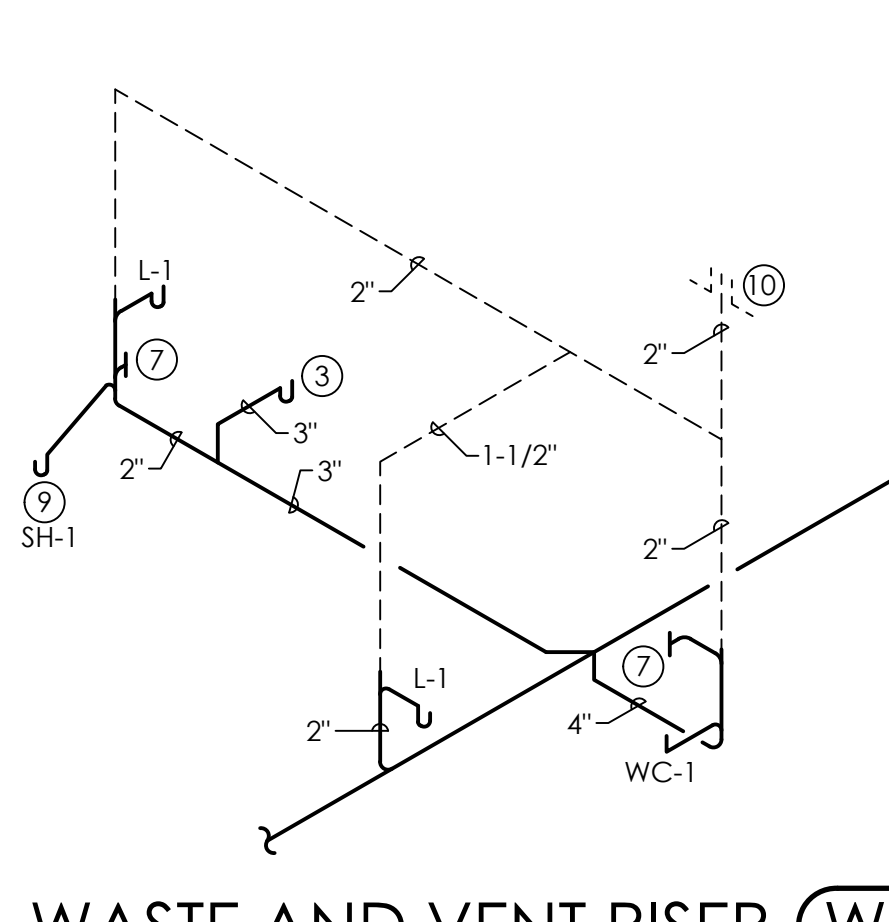
WASTE AND VENT RISER (W-5)  
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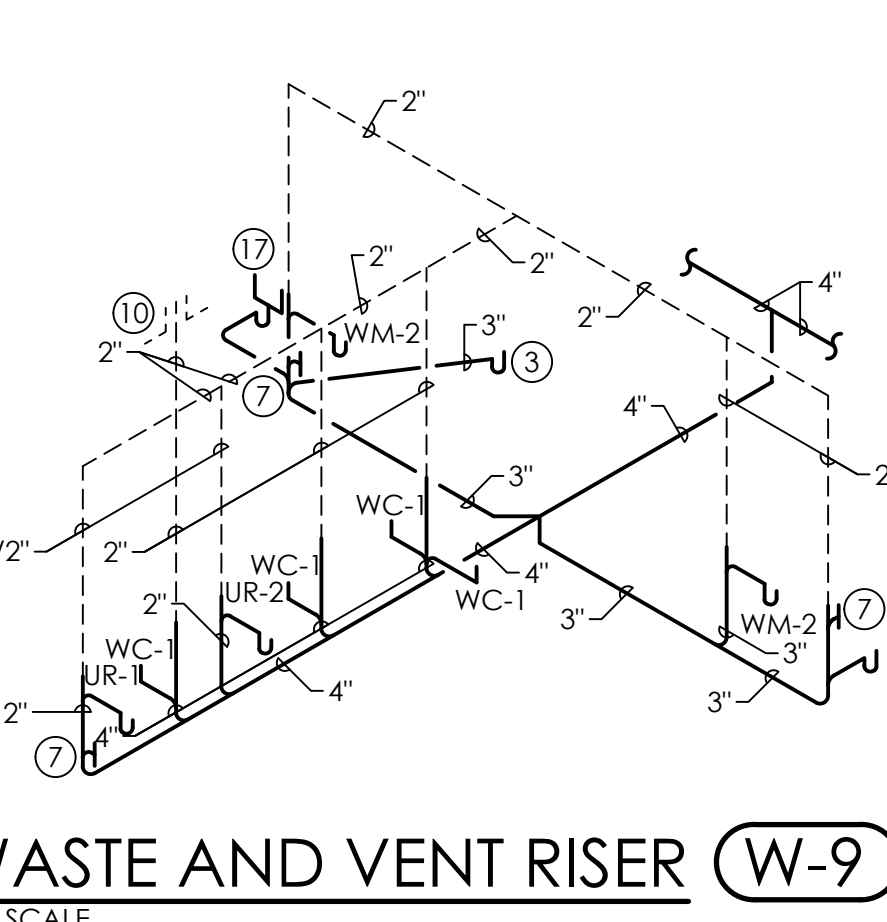
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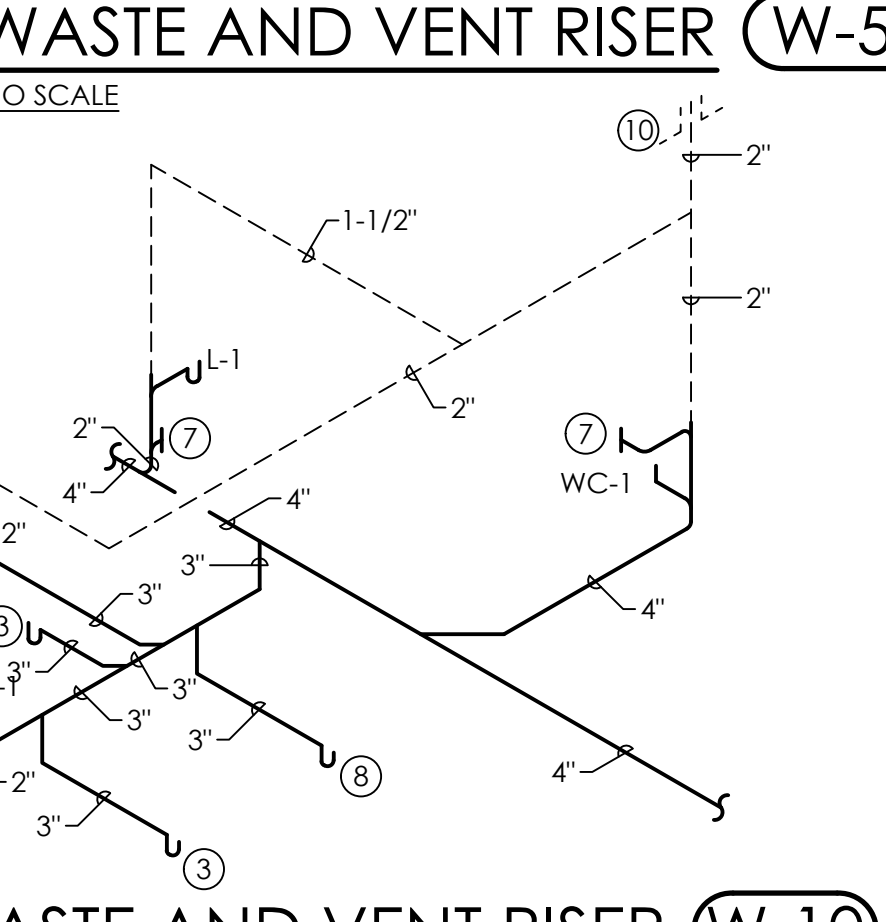
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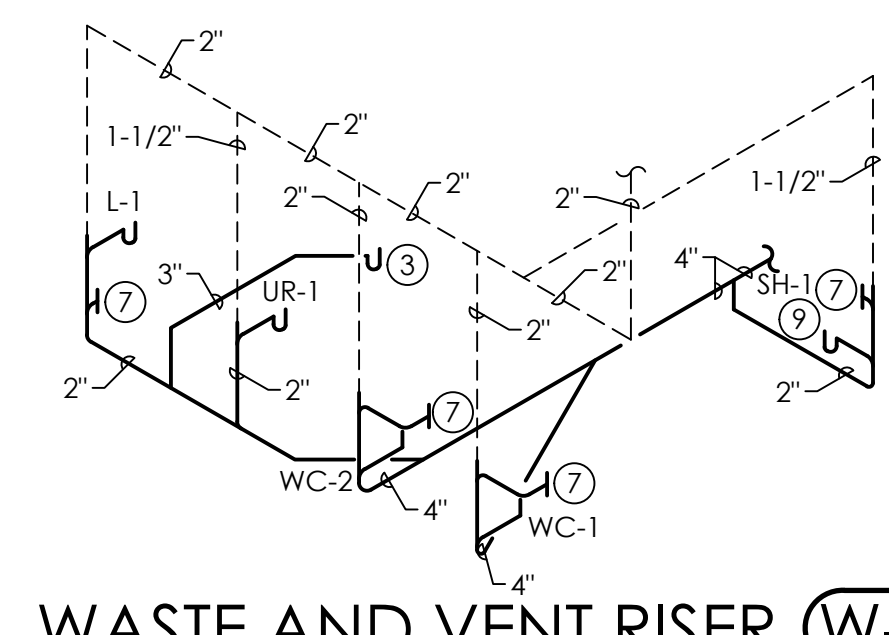
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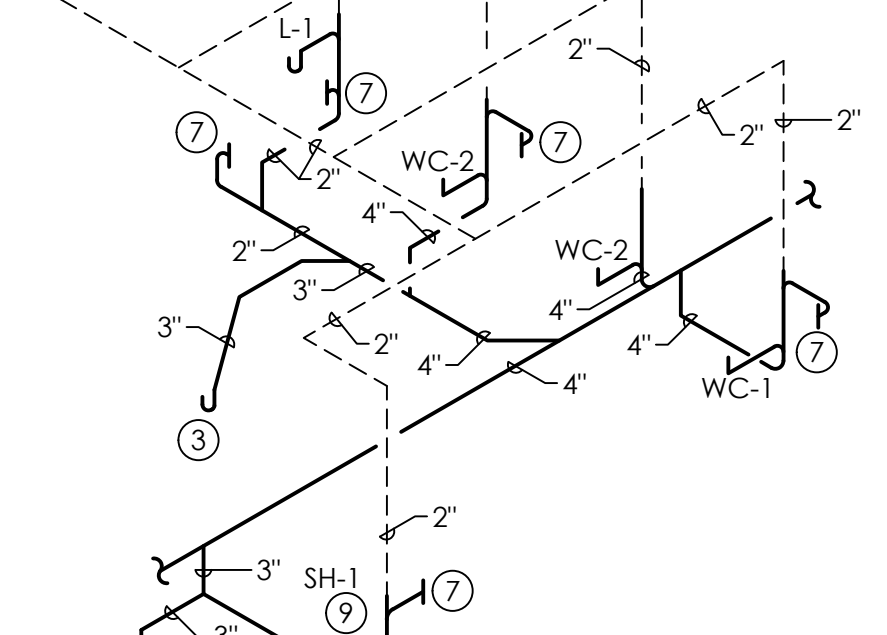
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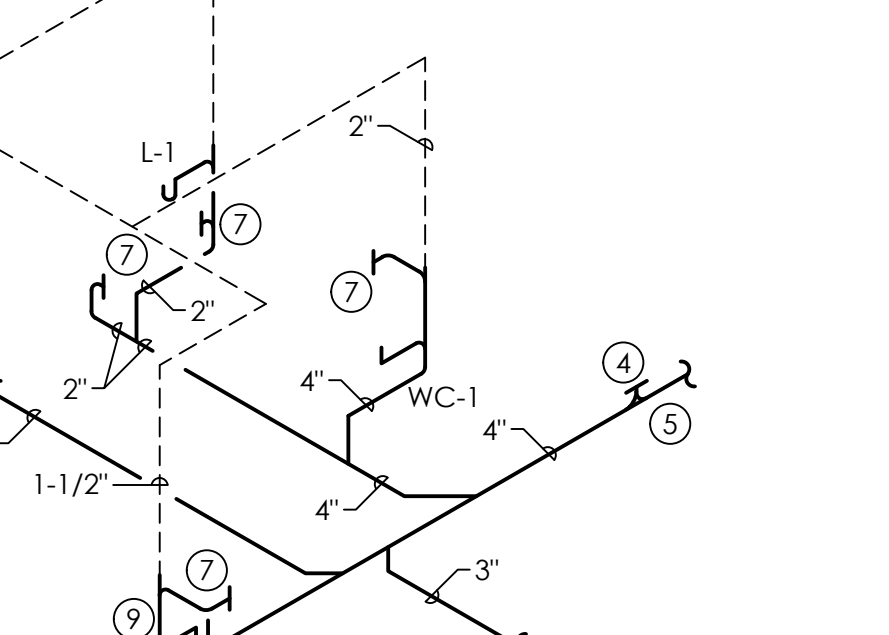
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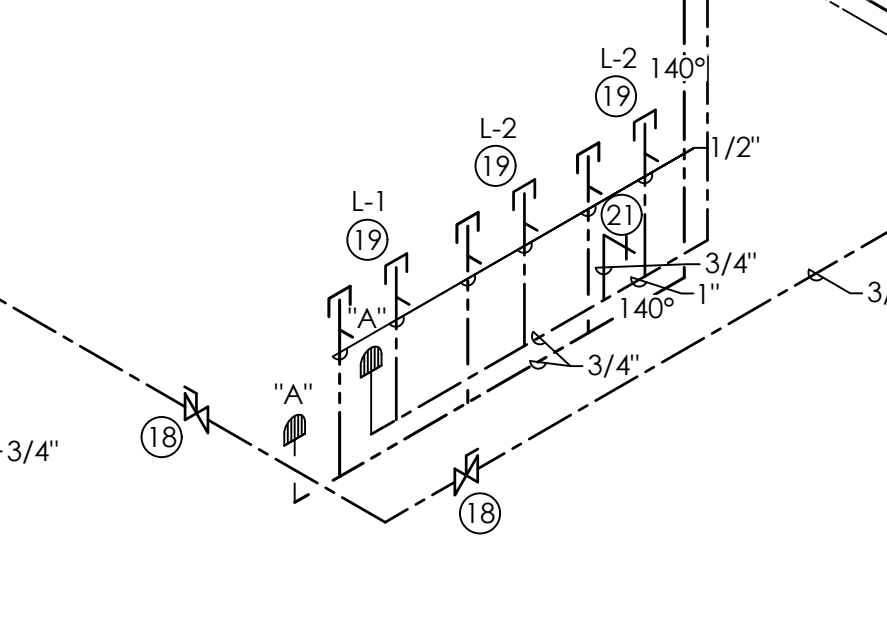
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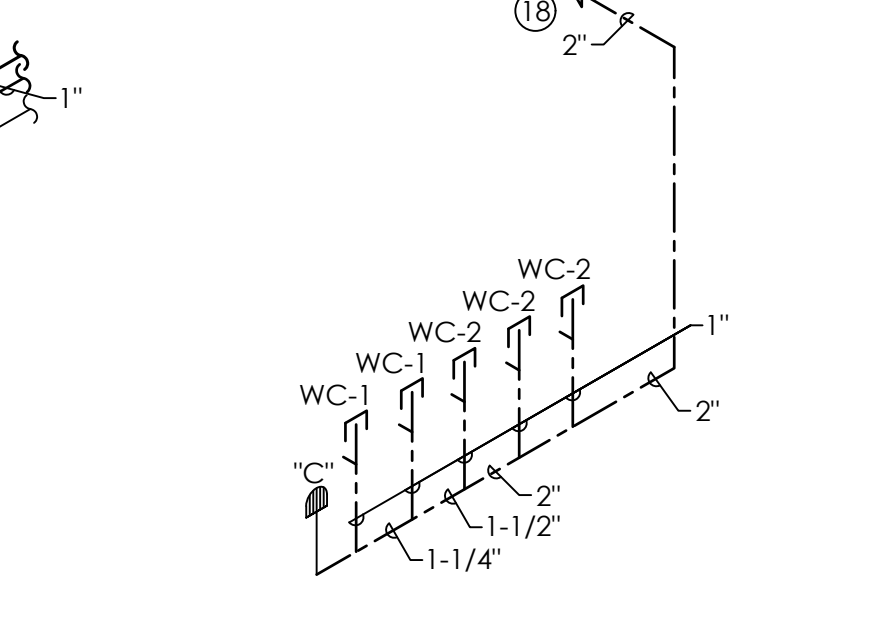
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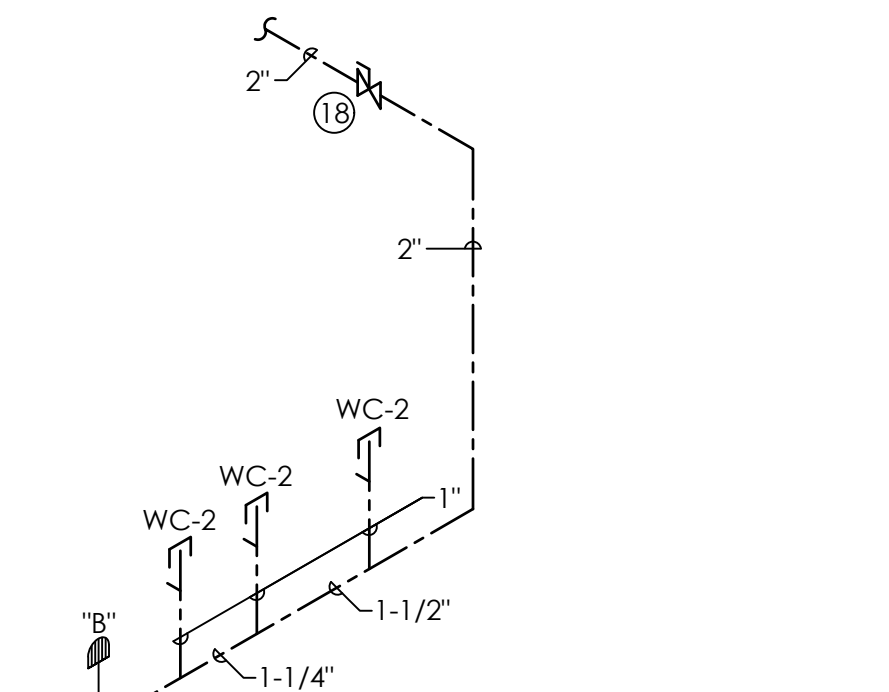
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NO SCALE



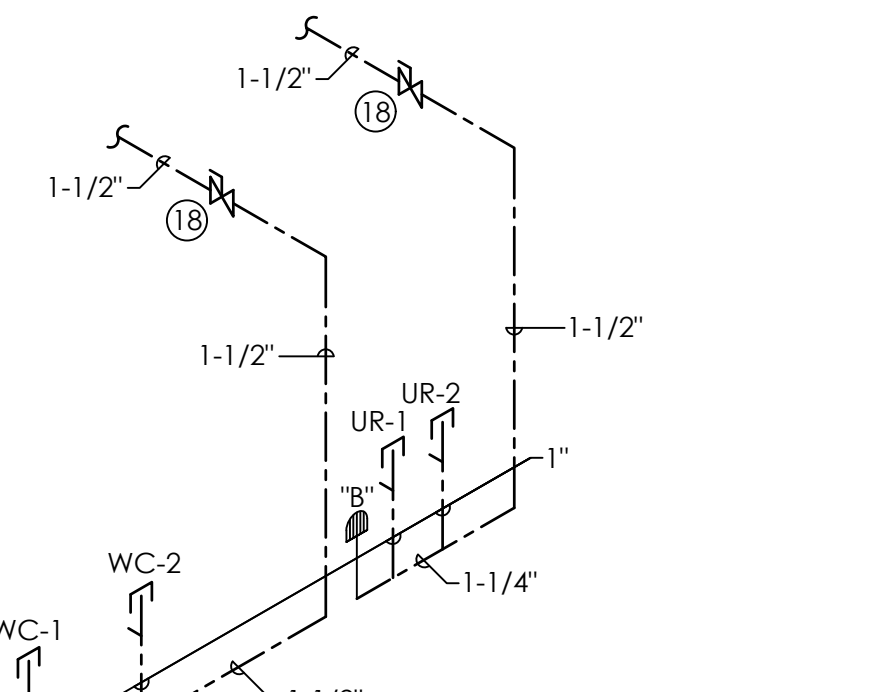
WATER RISER (R-1)  
NO SCALE



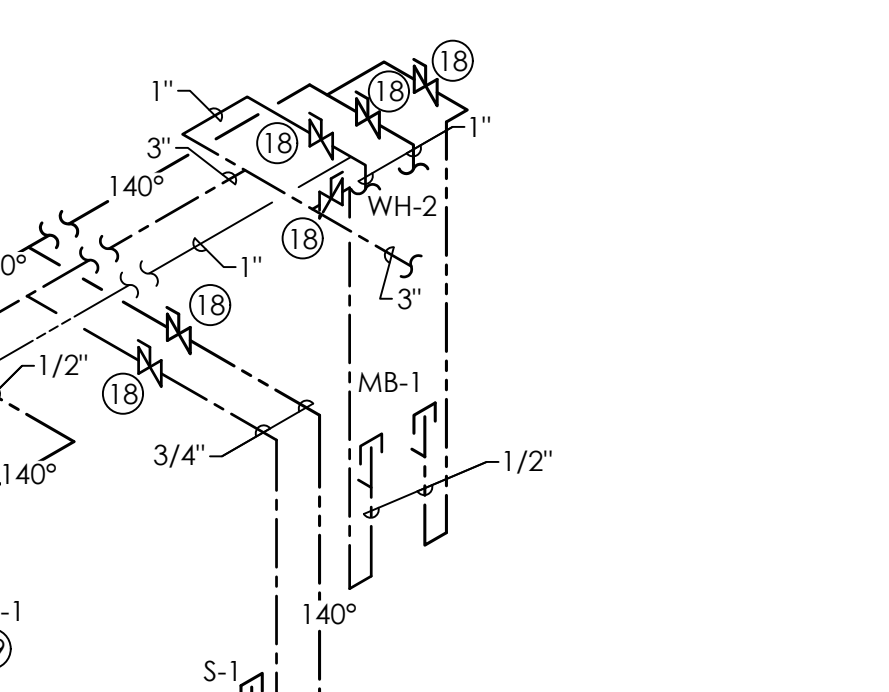
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NO SCALE



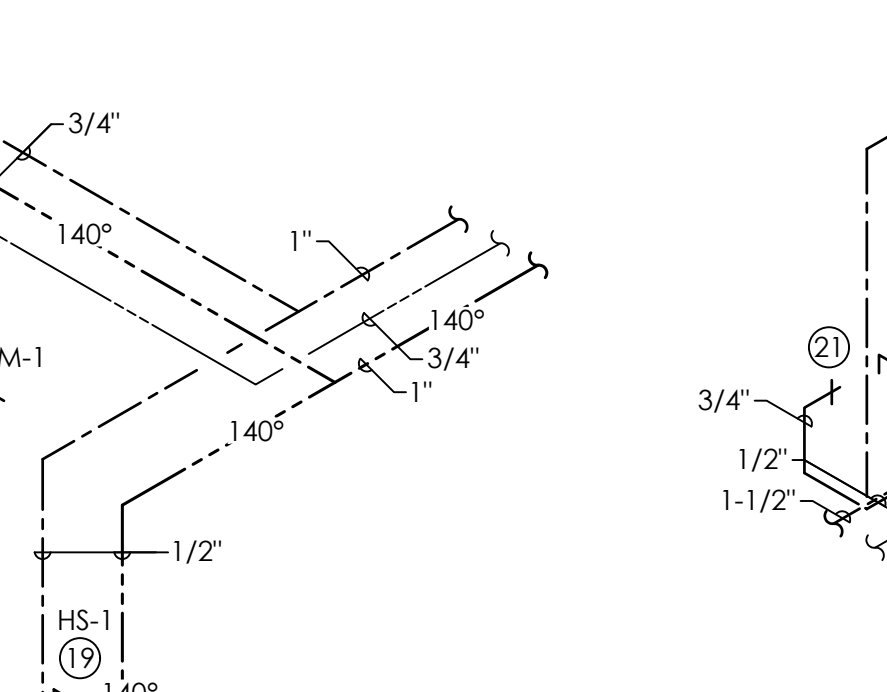
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NO SCALE



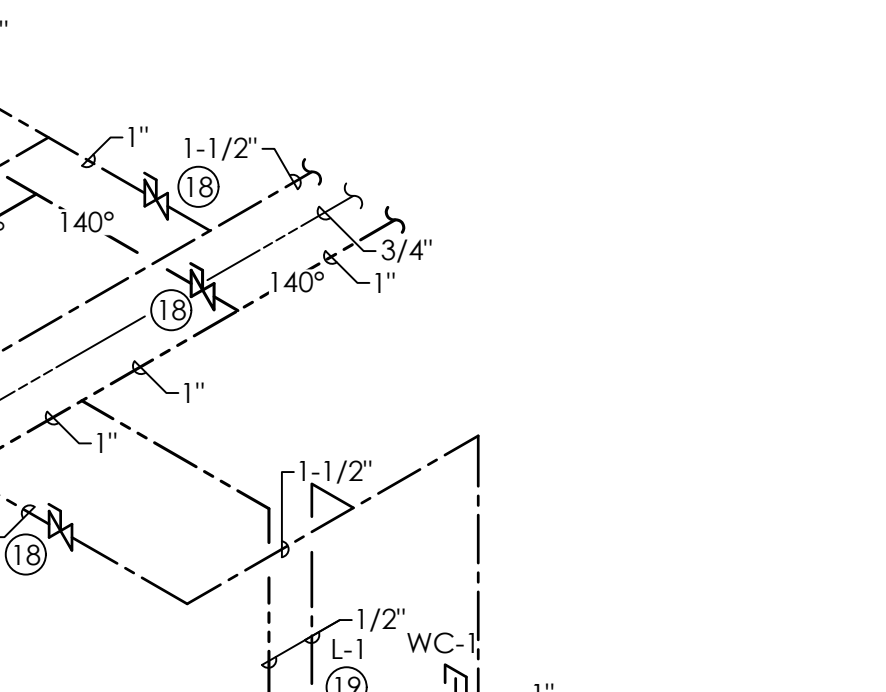
WATER RISER (R-5)  
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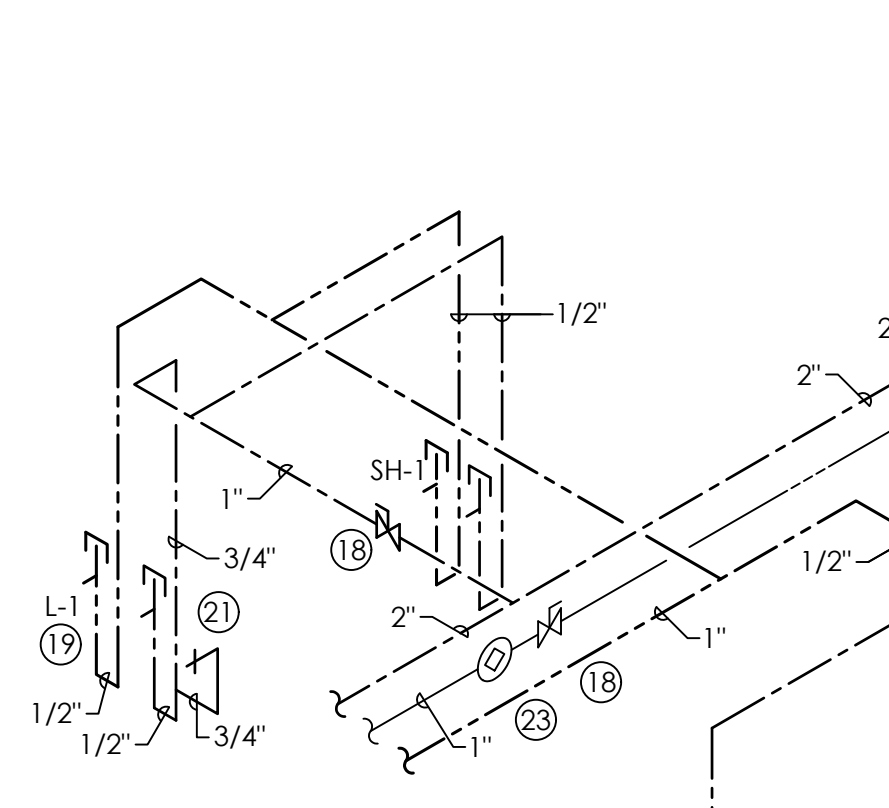
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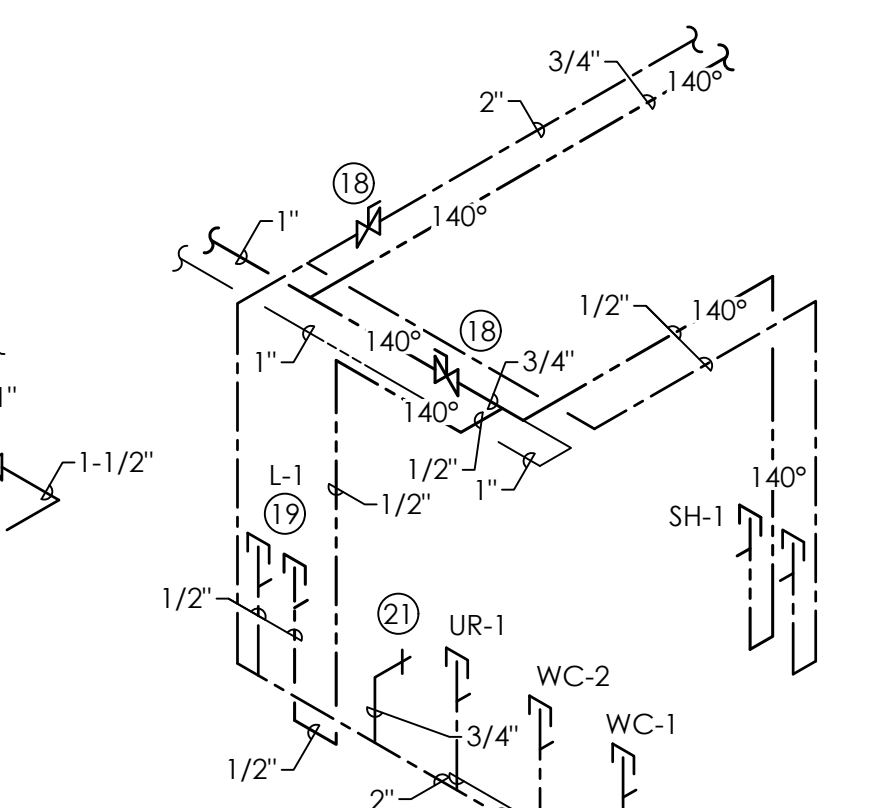
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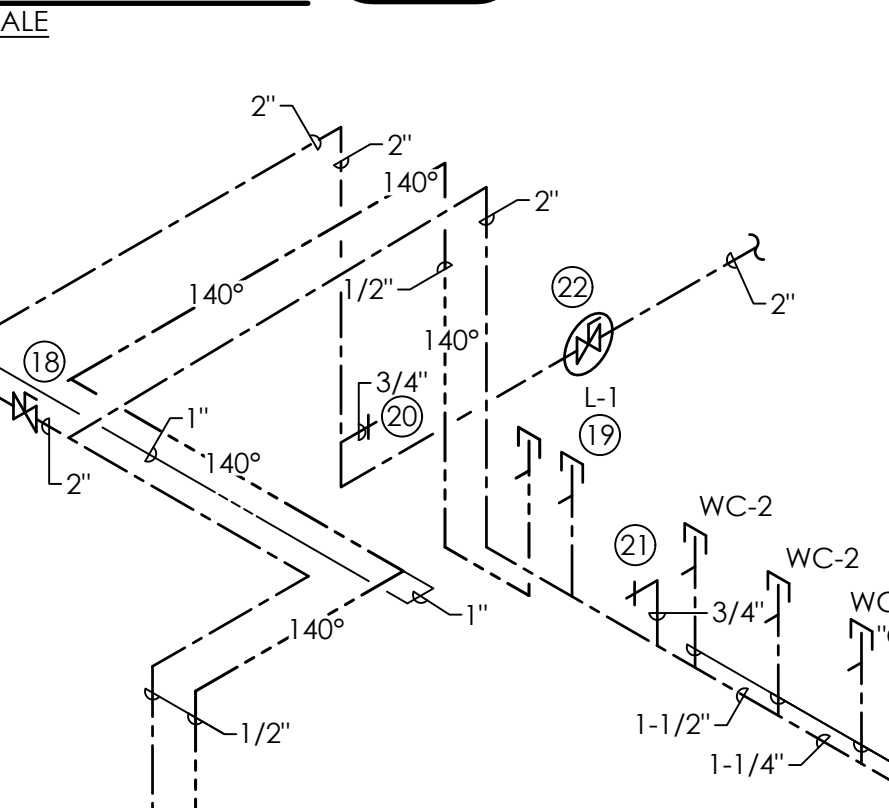
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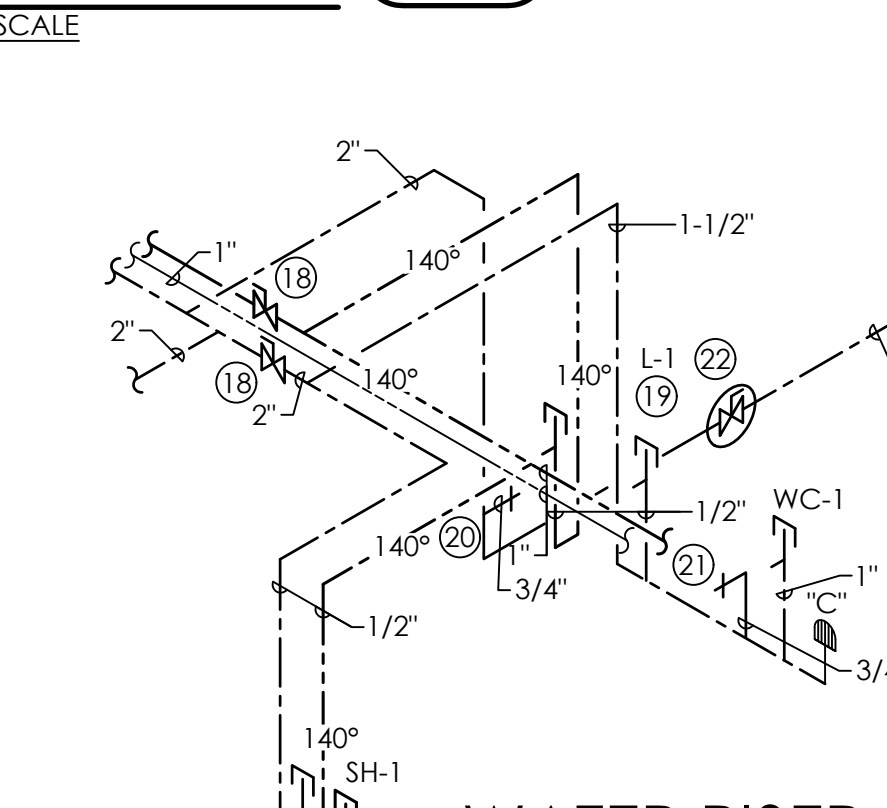
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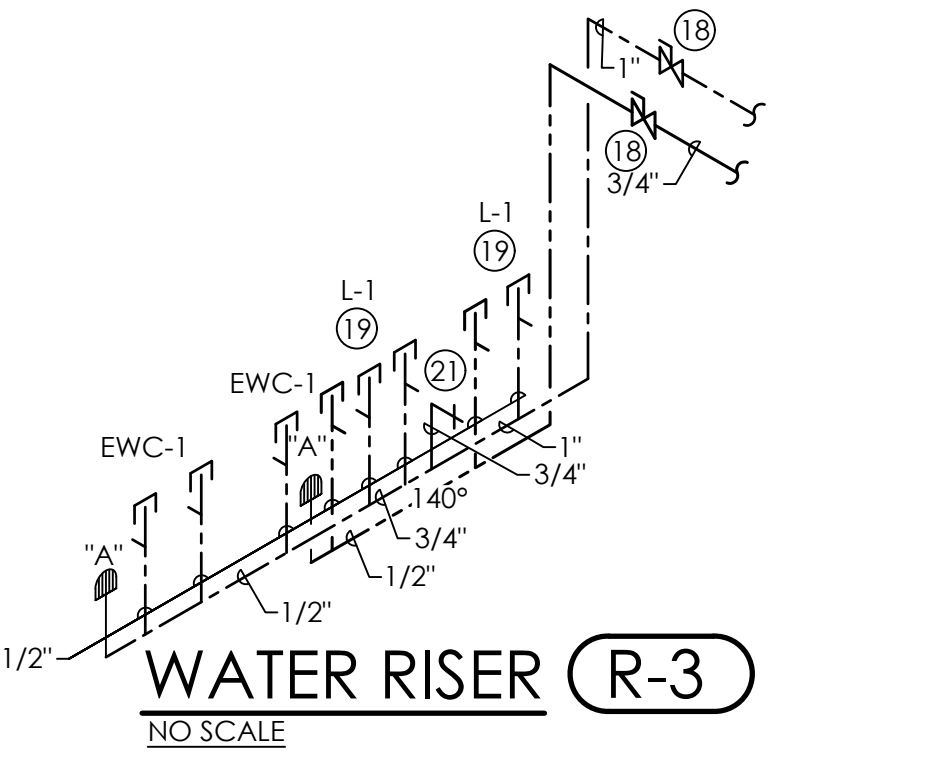
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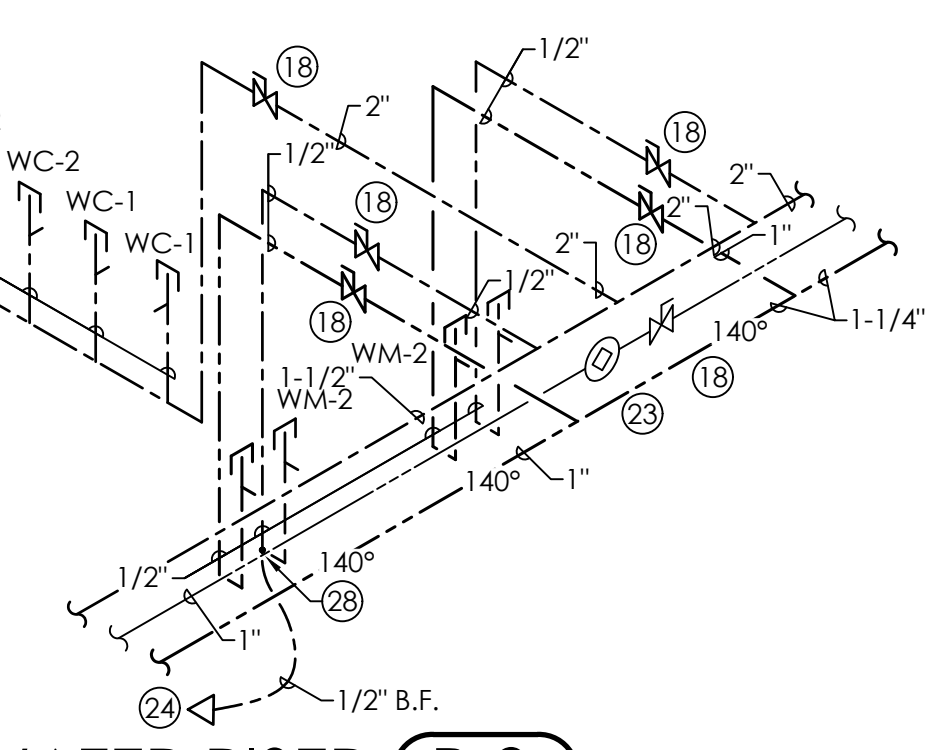
WATER RISER (R-12)  
NO SCALE



WATER RISER (R-13)  
NO SCALE



WATER RISER (R-3)  
NO SCALE



WATER RISER (R-9)  
NO SCALE

SHEET TITLE : PLUMBING WASTE AND VENT RISERS

MCKEE JOB # : 24-169

DRAWN BY : KS/RB

DATE : 9.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

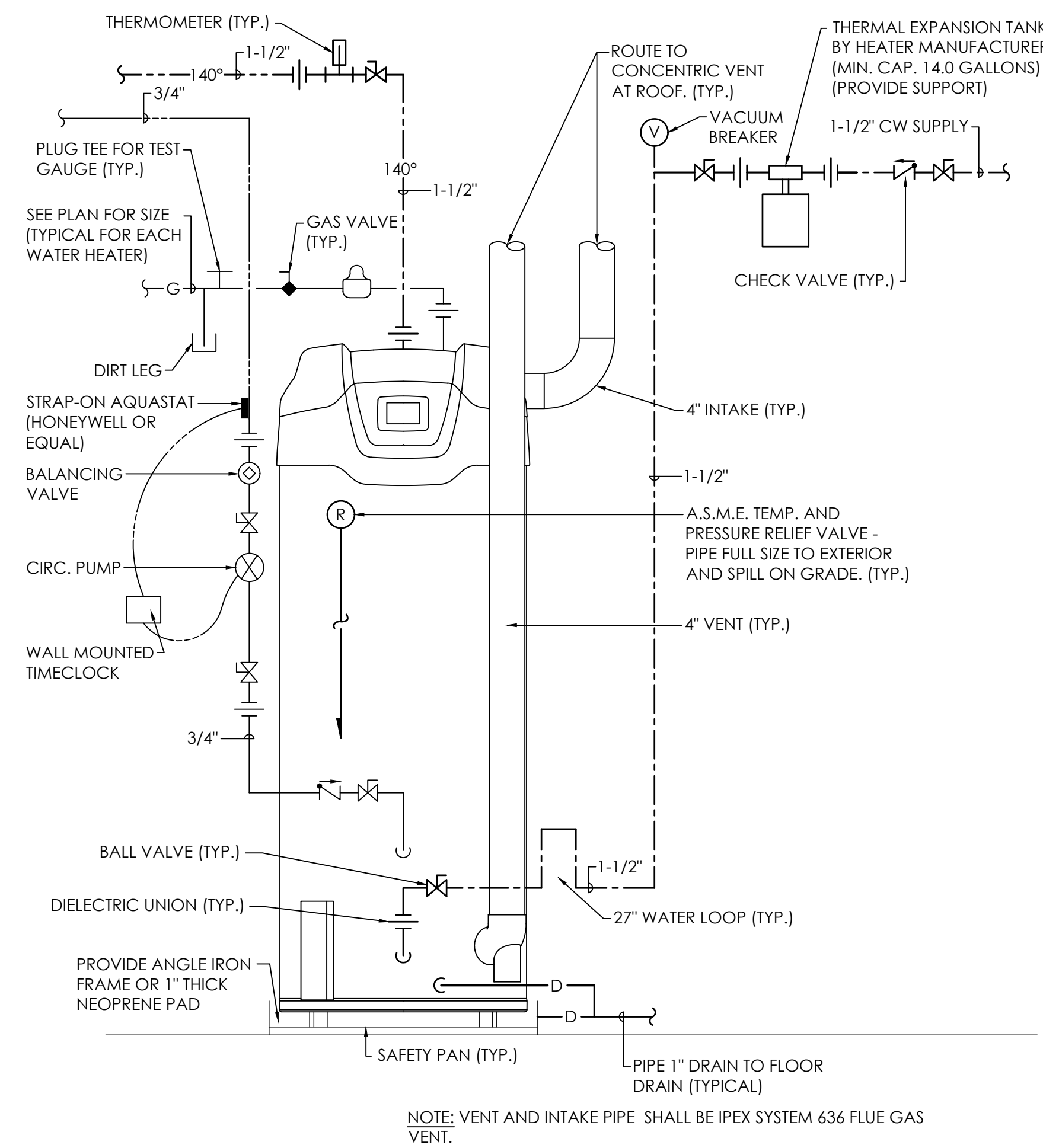
MORRIS DAVIS ENGINEERING LLC  
903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

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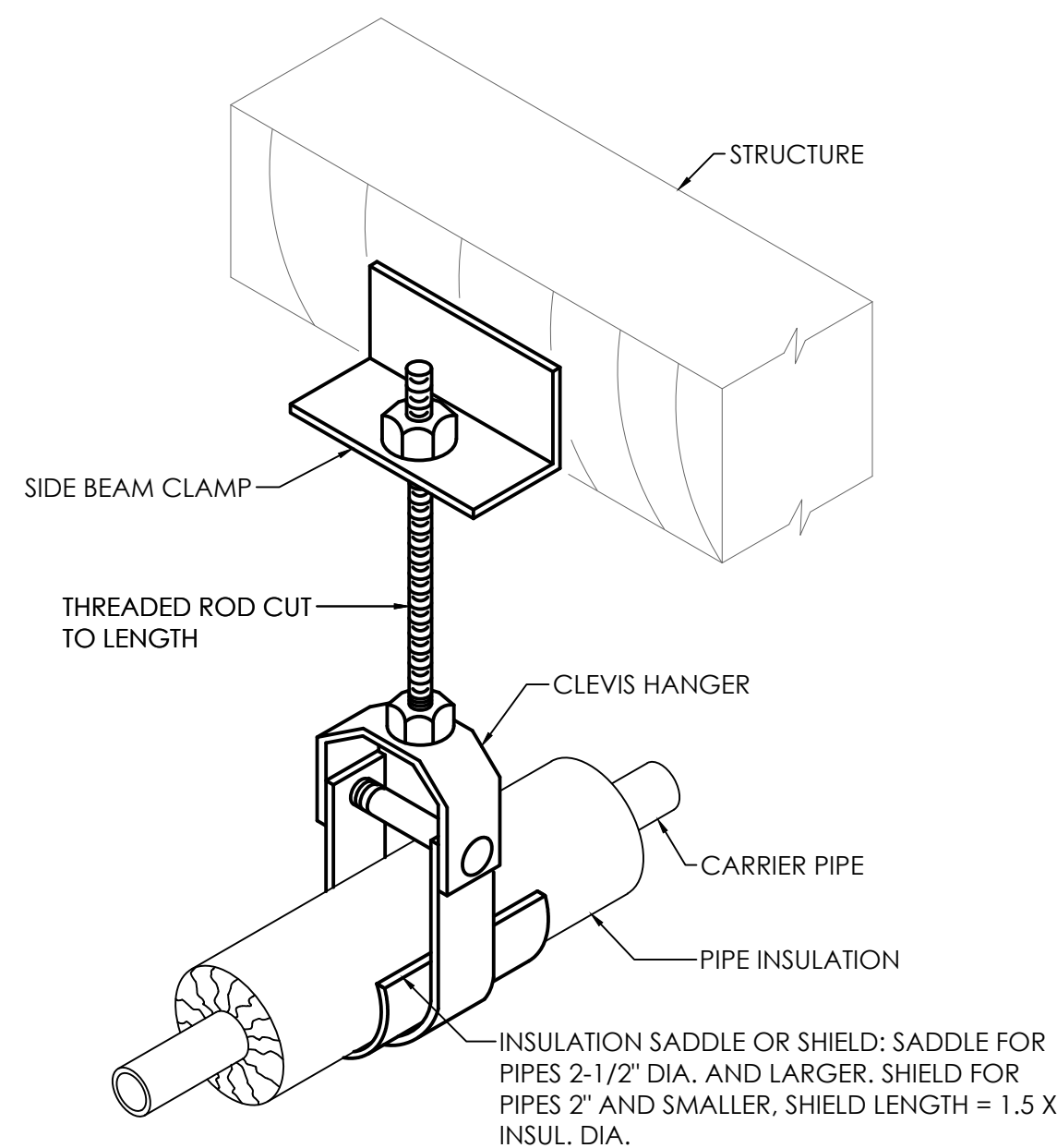




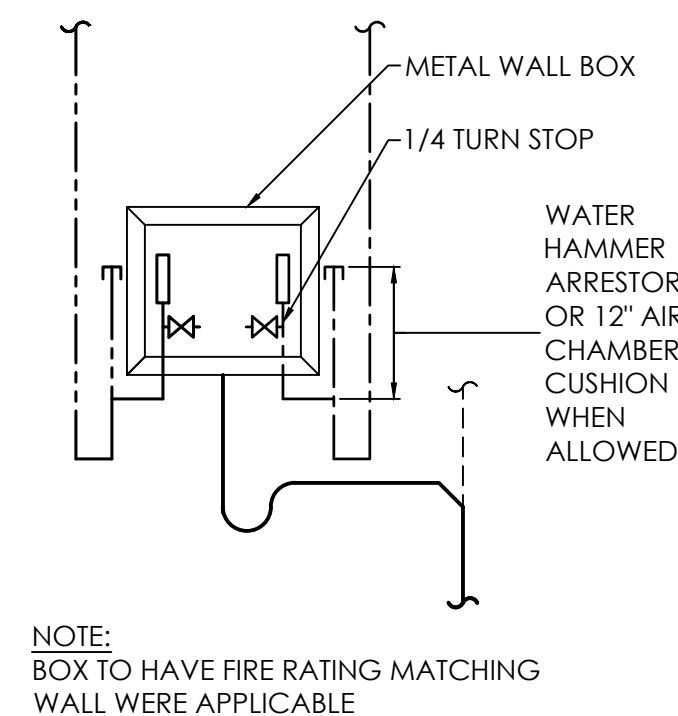




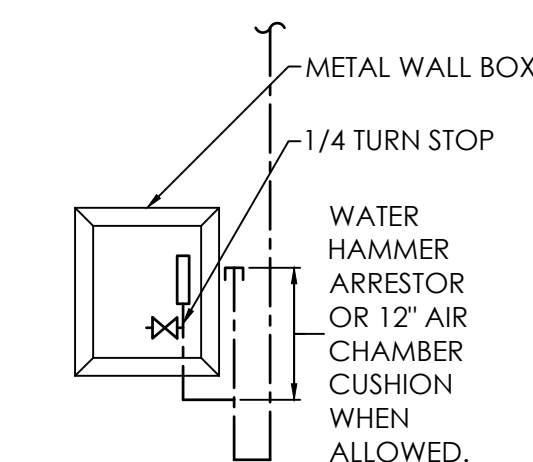
**CONDENSING WATER HEATER CONNECTION DETAIL**  
NO SCALE (WH-2)



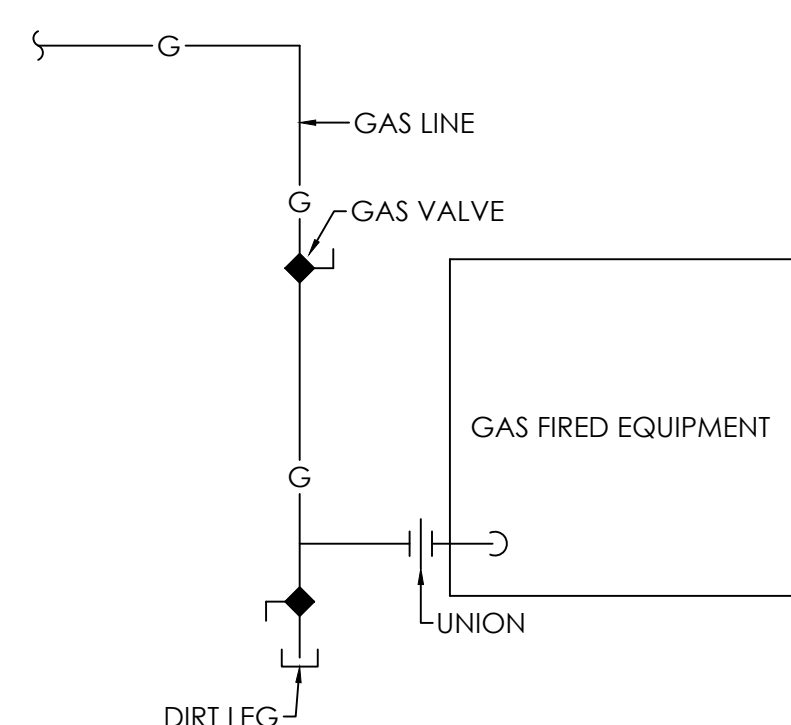
**PIPE HANGER DETAIL**  
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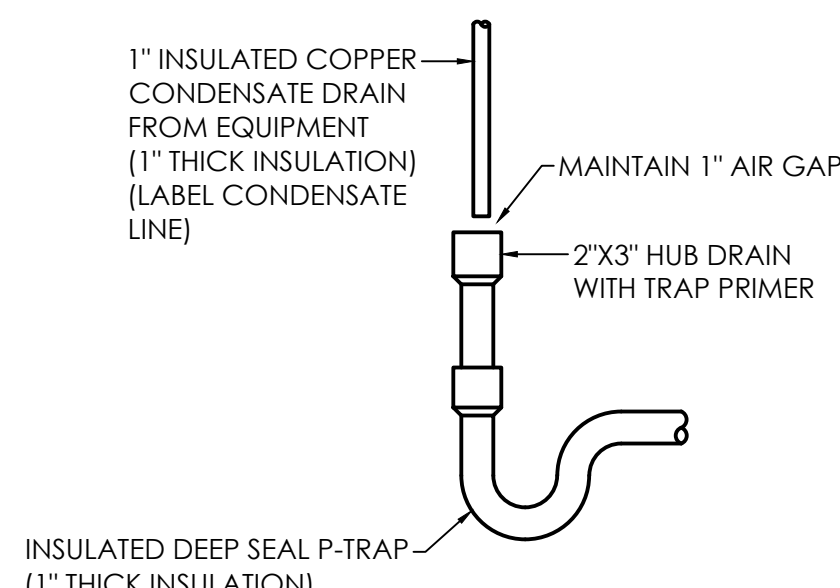
**WASHING MACHINE WALL BOX DETAIL**  
NO SCALE



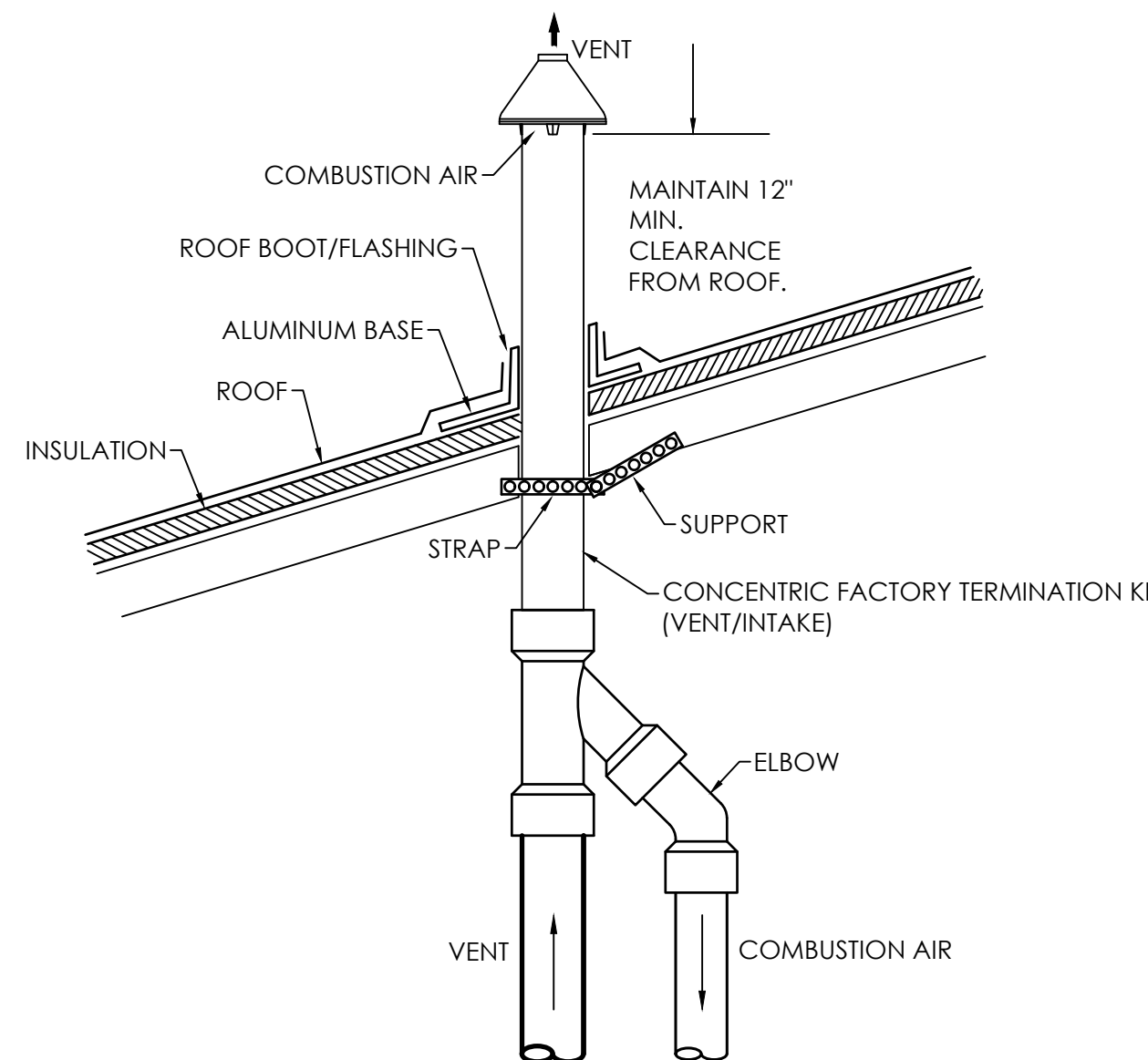
**ICE MAKER WALL BOX DETAIL**  
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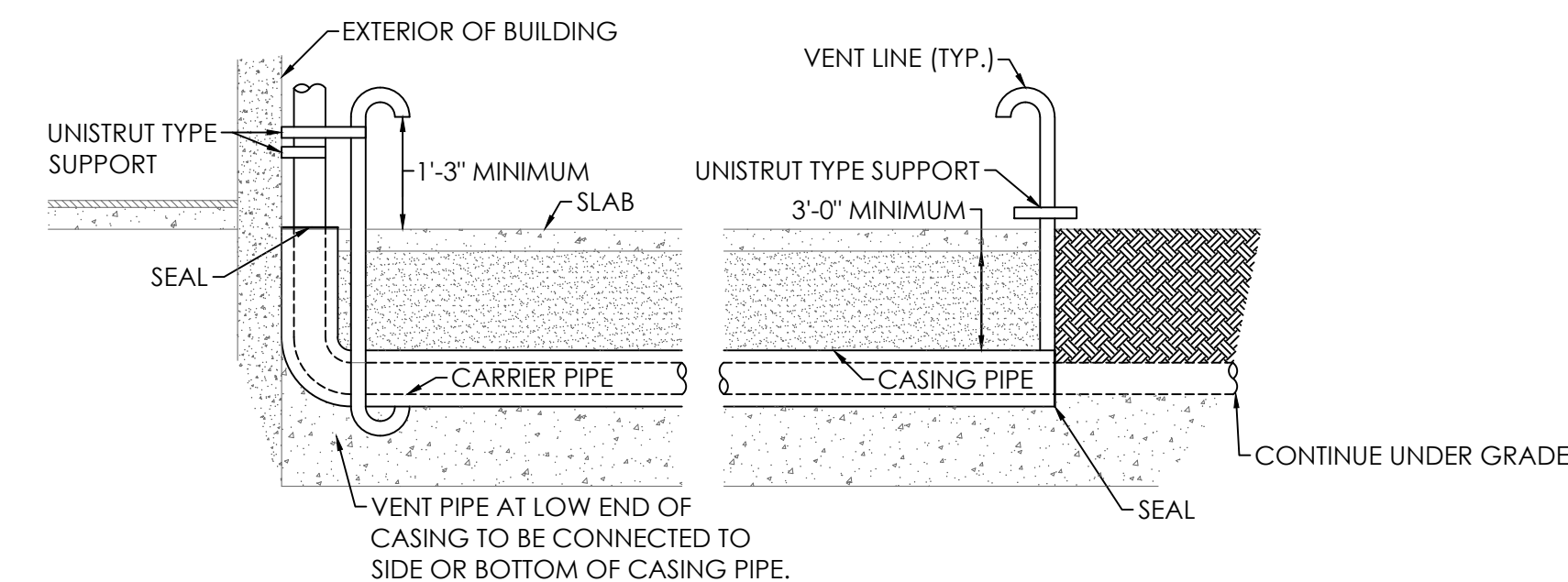
**TYPICAL GAS CONNECTION DETAIL**  
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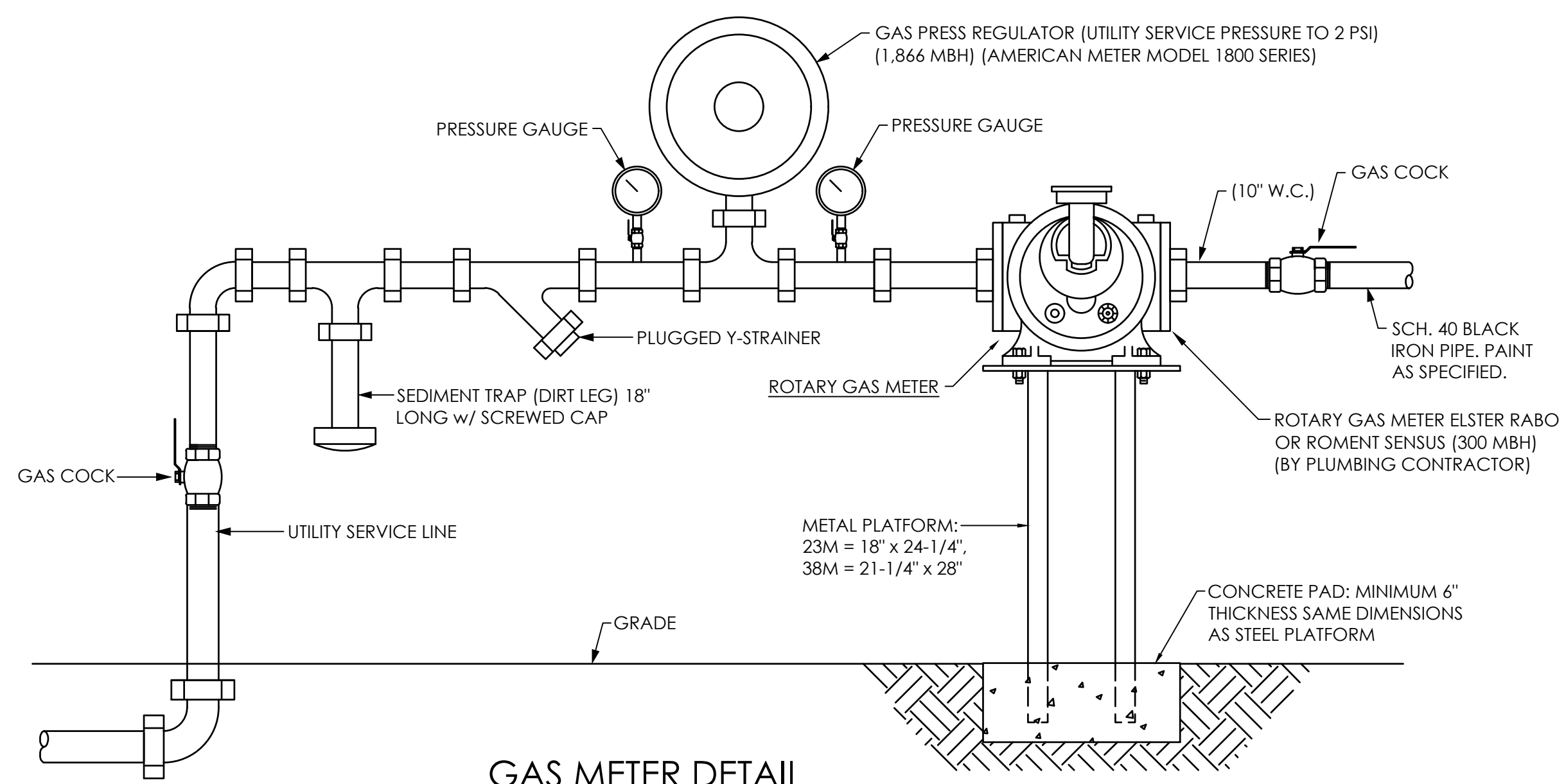
**HUB DRAIN DETAIL**  
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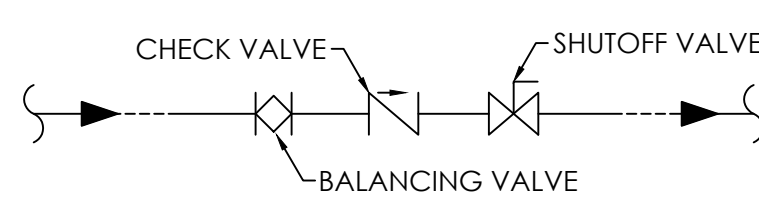
**THRU ROOF CONCENTRIC GAS VENT DETAIL**  
NO SCALE



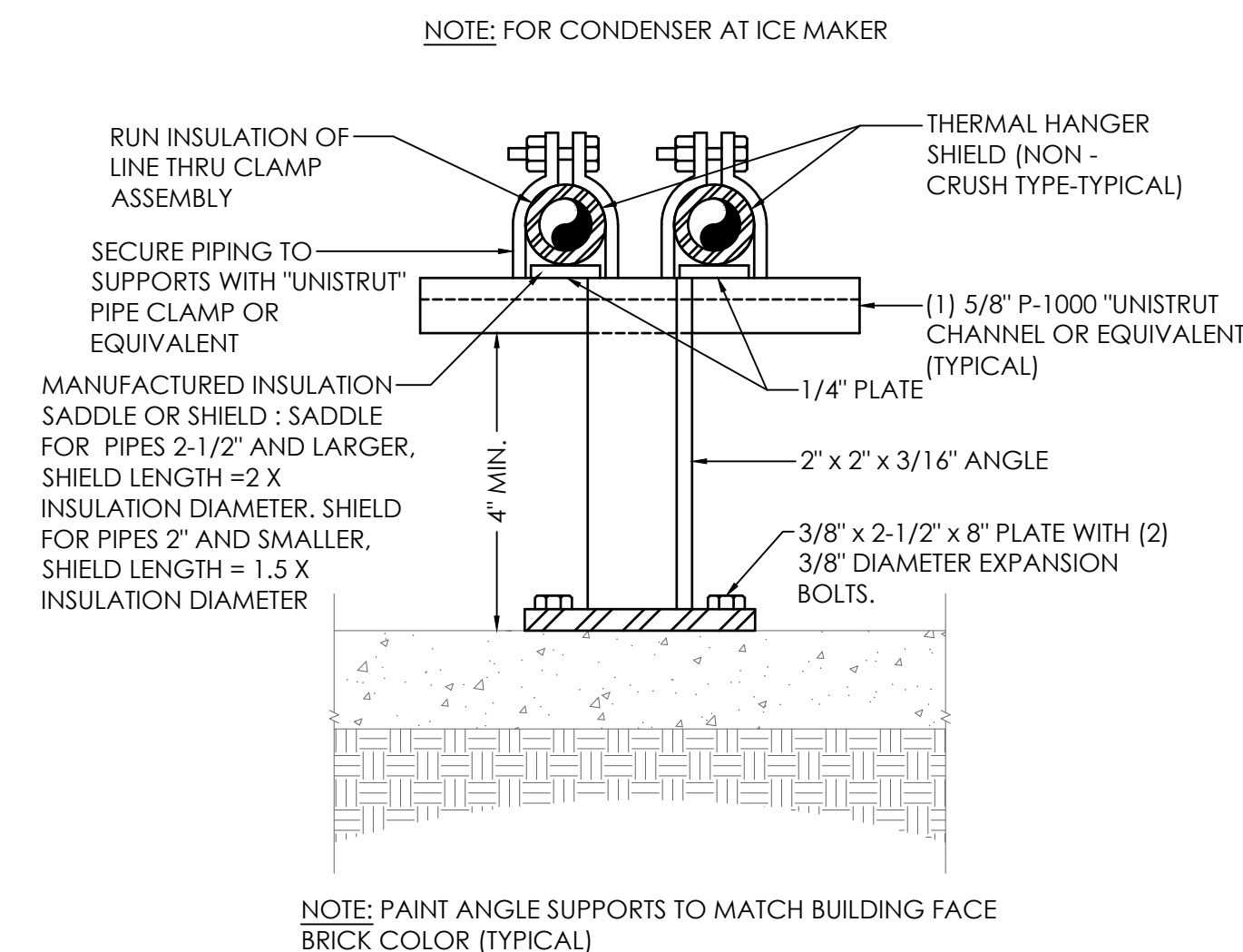
**UNDERGROUND GAS SLEEVE AND VENT DETAIL**  
NO SCALE



**GAS METER DETAIL**  
NO SCALE



**HOT WATER RETURN ASSEMBLY DETAIL**  
NO SCALE



**EXTERIOR PIPE SUPPORT DETAIL**  
NO SCALE (NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER)

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PLUMBING DETAILS  
 MCKEE JOB # : 24-169  
 DRAWN BY : BP/RB  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**MORRIS DAVIS**  
**ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **P4.2**



**MECHANICAL GENERAL NOTES**

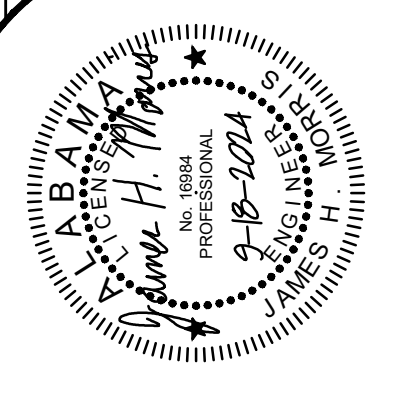
- CONTRACTOR SHALL PROVIDE ACCESS DOORS TO ALL FIRE RATED ASSEMBLIES (I.E. FIRE DAMPERS, CEILING RADIATION DAMPERS, ETC.) COORDINATE LOCATION OF ALL DOORS WITH LIGHTING, STRUCTURAL, PLUMBING, ETC. PRIOR TO ORDERING OR INSTALLING.
- VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.
- SEE SHEET #21 MECHANICAL PIPING FLOOR PLAN FOR ROUTING OF REFRIGERANT AND CONDENSATE PIPING. COORDINATE WITH PLUMBING AND ALL TRADES PRIOR TO ROUGH-IN.

**NOTE LEGEND: (THIS SHEET ONLY)**

- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) CEILING CASSETTE UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL OUTDOOR CONDENSING UNIT WITH ALL RELATED WIRING, CONTROLS, MOUNTING HARDWARE, ACCESSORIES, ETC. MOUNT EQUIPMENT ON 4" THICK CONCRETE PAD. COORDINATE EXACT LOCATION PRIOR TO INSTALLING EQUIPMENT.
- PROVIDE A COMPLETE AND OPERATIONAL WALL MOUNTED SHUTTER EXHAUST FAN WITH ALL RELATED WIRING, CONTROLS, MOUNTING HARDWARE, ACCESSORIES, ETC. FAN SHALL HAVE TOTAL ENCLOSED AIR OVER MOTOR ENCLOSURE. ALUMINUM BLADE AND FRAME MATERIAL. INTERLOCK FAN WITH WALL SENSOR TO ENERGIZE AT SET POINT TEMPERATURE IN SPACE.
- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL EXHAUST FAN SYSTEM SUSPENDED FROM STRUCTURE WITH ALUMINUM GRILLE IN CEILING.
- DUCTWORK SHALL BE RUN ABOVE CEILING AND BELOW ROOF FRAMING. COORDINATE WITH STRUCTURAL, LIGHTING AND ALL TRADES PRIOR TO FABRICATING OR INSTALLING.
- PROVIDE A COMPLETE AND OPERATIONAL EXTERIOR LOUVER WITH MIN. 2" DEEP INSULATED PLENUM.
- PROVIDE A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) WALL MOUNTED UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. SEE PLUMBING FOR CONDENSATE ROUTING. CONDENSATE PUMPS ARE NOT ALLOWED.
- 73" X 19" (COORDINATE SIZE REQUIRED WITH ACTUAL EQUIPMENT TO BE INSTALLED) INSULATED RETURN DUCTWORK UP TO UNIT ON ROOF.
- PROVIDE 4" RIGID DUCT FROM DRYER TO WALL CAP. USE FSK TAPE TO CONNECT PIPE. DO NOT USE SCREWS. PROVIDE DARK BRONZE ALUMINUM WALL CAP WITH BACK DRAFT DAMPER FOR DRYER.
- PROVIDE A COMPLETE AND OPERATIONAL ELECTRIC UNIT HEATER SEMI-RECESSED IN WALL WITH INTEGRAL THERMOSTAT. COORDINATE EXACT LOCATION WITH SPRINKLER RISER IN ROOM. MAINTAIN ALL SERVICE CLEARANCES.
- PROVIDE ALUMINUM WALL RETURN GRILLES ON EACH SIDE OF WALL AS SHOWN AND CONNECT WITH SHEET METAL PLENUM FOR A COMPLETE AND OPERATIONAL AIR TRANSFER DUCT.
- WATER HEATER SHOWN FOR REFERENCE ONLY. COORDINATE WITH PLUMBING PLANS. NO DUCTWORK SHALL RUN ABOVE WATER HEATERS.
- PROVIDE DRYER BOX MODEL 350 OR APPROVED EQUAL, SEE DETAILS.
- EXPOSED DUCTWORK IN THIS AREA. ROUND DOUBLE WALL (1" INSULATION) SPIRAL DUCTWORK. PERFORATED INTERNAL LINER. COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND DIRECT AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. ROUTE DUCTWORK TIGHT TO STRUCTURE. DUCTWORK TO BE FIELD PAINTED WITH PAINT GRIP FINISH. DUCTWORK TO BE PAINTED PRIOR TO INSTALL. COORDINATE EXACT COLOR WITH ARCHITECT. SEE DETAIL.
- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL PACKAGED HEAT PUMP WITH ELECTRIC HEAT STRIP. PROVIDE FACTORY DEHUMIDIFICATION. MOUNT EQUIPMENT ON 4" THICK CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLING EQUIPMENT. ROUTE CONDENSATE TO DRYWELL. SEE DETAILS. PROVIDE DIGITAL THERMOSTAT, HUMIDISTAT, AND CO2 SENSOR IN SPACE.
- PROVIDE FLASHING AND COUNTER FLASHING AROUND DUCTWORK WHERE IT PENETRATES THRU WALL. SEAL WATER TIGHT. (TYPICAL FOR ALL AREAS).
- ALUMAGUARD OR APPROVED EQUAL FOR ALL EXTERIOR DUCTWORK. EXTERIOR DUCTWORK SHALL BE R-12 INSULATION.
- PROVIDE 1" HARD COPPER CONDENSATE PIPE SUPPORTS WITH VERTICAL ADJUSTMENT TO ALLOW GRAVITY DRAIN FOR CONDENSATE PIPING (OR APPROVED EQUAL) PROVIDE SUPPORTS EVERY 3'-0" OR ANY CHANGE IN DIRECTION. SECURE PIPE SUPPORTS TO CONCRETE. PROVIDE DROP DOWN UNDERGROUND TO DRYWELL. PROVIDE BORDER AROUND CONDENSATE DROP DOWN TO PROTECT PIPING FROM LANDSCAPING EQUIPMENT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR "TYPICAL MECH. PAD CONDENSATE EQUIPMENT PAD" LOCATION. PROVIDE 12"x12" CONCRETE BORDER AROUND CONDENSATE LINE DROP DOWN TO PROTECT PIPING FROM LANDSCAPING EQUIPMENT. FILL INSIDE CONCRETE BARRIER WITH #57 STONE GRAVEL. RUN CONDENSATE IN 6" DIA. PLASTIC SERVICE PIPE. CONDENSATE TO DROP DOWN THRU EQUIPMENT PAD.
- PROVIDE DRYWELL FOR CONDENSATE. SEE DETAILS.
- PROVIDE 8" RIGID DUCT FOR FUTURE COMMERCIAL DRYER TO WALL CAP. PROVIDE DARK BRONZE ALUMINUM WALL CAP WITH BACK DRAFT DAMPER. COORDINATE WITH ARCHITECT AND OWNER FOR DRYER MANUFACTURERS RECOMMENDATIONS. USE FSK TAPE TO CONNECT DUCT. DO NOT USE SCREWS. WRAP DUCT WITH 3M 1-HOUR RATED WRAP. COORDINATE WITH ALL OTHER TRADES PRIOR TO FABRICATING OR INSTALLING DUCTWORK. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.

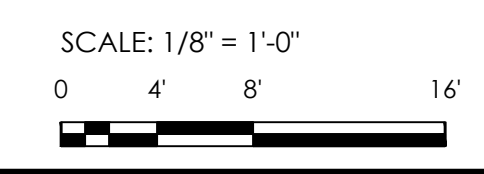
**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
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 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

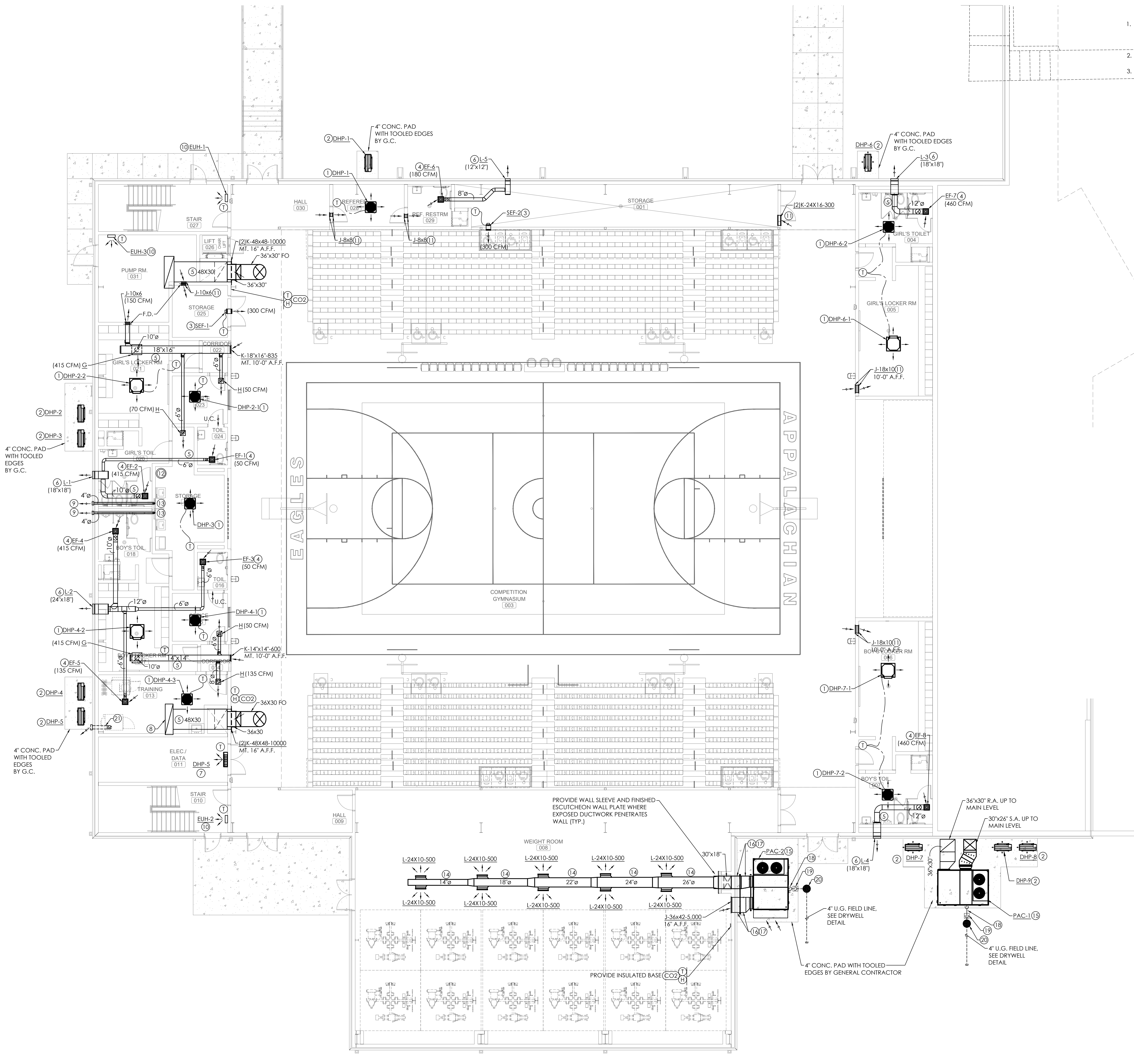


SHEET TITLE : MECHANICAL FLOOR PLAN - LOWER LEVEL  
 MCKEE JOB # : 24-169  
 DRAWN BY : CK, KN  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**MORRIS DAVIS**  
**ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088



SHEET NO. : **M1.1**



**MECHANICAL FLOOR PLAN - LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"

- N:\2024\1003\24-088\Appalachian High School Gym\Drawings\Mech\24-088 M1.dwg  
 - Wednesday, September 18, 2024 8:52:03 AM

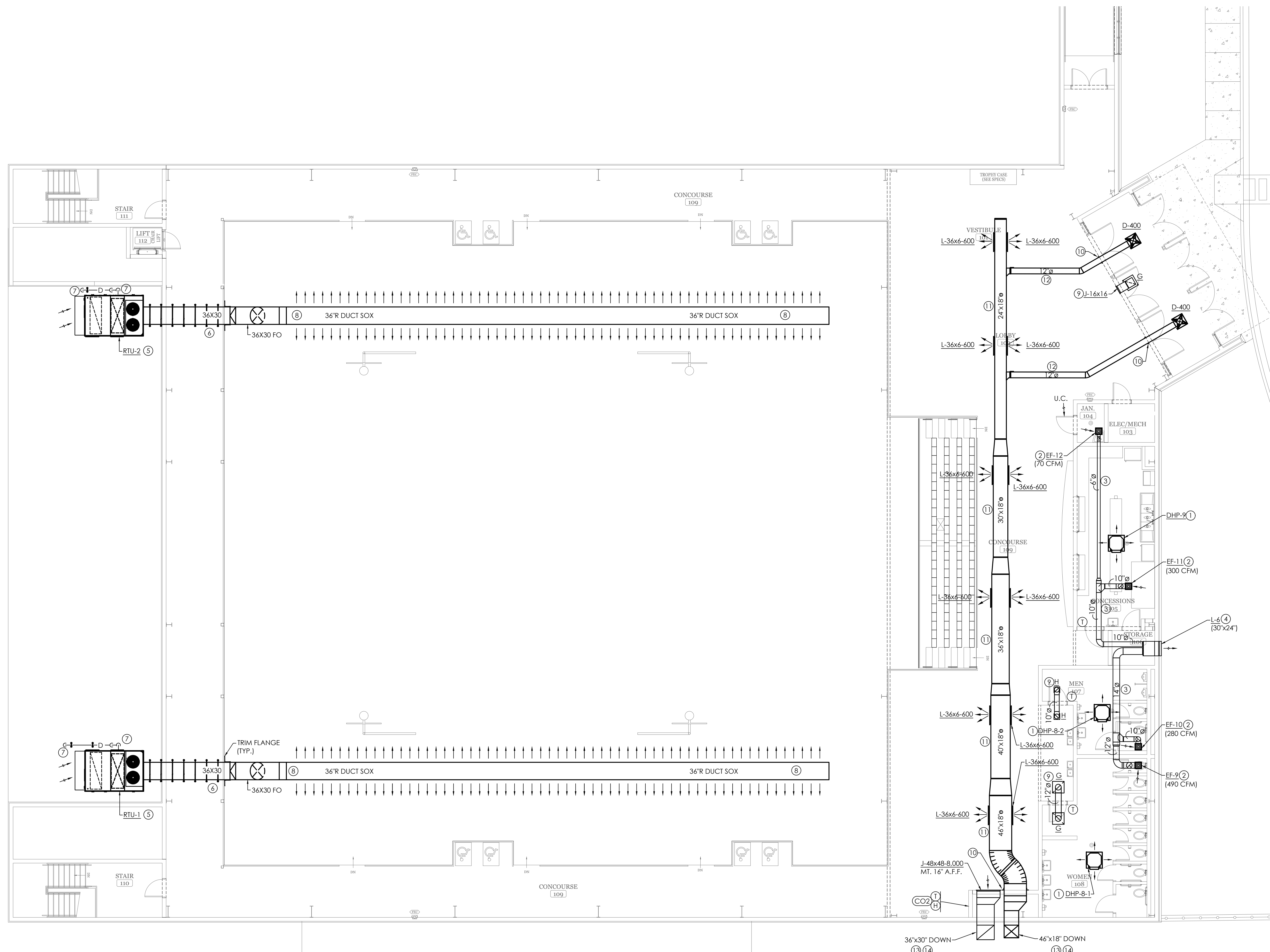


**MECHANICAL GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE ACCESS DOORS TO ALL FIRE RATED ASSEMBLIES (I.E. FIRE DAMPERS, CEILING RADIATION DAMPERS, ETC.) COORDINATE LOCATION OF ALL DOORS WITH LIGHTING, STRUCTURAL, PLUMBING, ETC. PRIOR TO ORDERING OR INSTALLING.
2. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.
3. SEE SHEET M2.1 MECHANICAL PIPING FLOOR PLAN FOR ROUTING OF REFRIGERANT AND CONDENSATE PIPING. COORDINATE WITH PLUMBING AND ALL TRADES PRIOR TO ROUGH-IN.

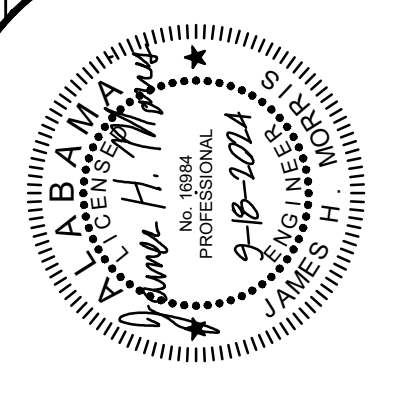
**NOTE LEGEND: (THIS SHEET ONLY)**

1. PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) CEILING CASSETTE UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
2. PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL EXHAUST FAN SYSTEM SUSPENDED FROM STRUCTURE WITH ALUMINUM GRILLE IN CEILING.
3. DUCTWORK SHALL BE RUN ABOVE CEILING AND BELOW ROOF FRAMING. COORDINATE WITH STRUCTURAL, LIGHTING AND ALL TRADES PRIOR TO FABRICATING OR INSTALLING.
4. PROVIDE A COMPLETE AND OPERATIONAL EXTERIOR LOUVER WITH MIN. 24" DEEP INSULATED PLENUM.
5. PROVIDE A COMPLETE AND OPERATIONAL PACKAGED HEAT PUMP UNIT WITH ELECTRIC HEAT AS SCHEDULED AND DETAILED. UNIT SHALL BE INSTALLED ON FULLY INSULATED TRANSITION ROOF CURB TO ALLOW SUPPLY DUCTWORK TO EXIT HORIZONTALLY. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER PRIOR TO INSTALLING EQUIPMENT. PROVIDE TIE DOWN FOR UNIT.
6. ALL EXTERIOR DUCTWORK SHALL BE ALUMAGUARD (R-12) OR APPROVED EQUAL, SUITABLE FOR EXTERIOR INSTALLATION. SUPPORT ON ROOF WITH DURA-BLOK ROOF SUPPORTS.
7. PROVIDE 1" HARD COPPER CONDENSATE PIPING AT EXPOSED AREAS FROM EQUIPMENT TO GUTTER SYSTEM. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF GUTTER SYSTEM. PROVIDE MAPA SINGLE POST ROOF PIPE SUPPORTS WITH VERTICAL ADJUSTMENT TO ALLOW GRAVITY FLOW FOR CONDENSATE PIPING (OR APPROVED EQUAL) PROVIDE SUPPORTS EVERY 6'-0" OR ANY CHANGE IN DIRECTION. SECURE PIPE SUPPORTS TO ROOF. COORDINATE WITH ROOFING CONTRACTOR. MAINTAIN REQUIRED SLOPE ON ALL GRAVITY DRAIN CONDENSATE LINES. SEE DETAILS.
8. PROVIDE A COMPLETE AND OPERATIONAL DUCTSOX FABRIC DUCTWORK SYSTEM. DUCTSOX SHALL PROVIDE ENGINEERED DUCT LAYOUT AND AIR DISPERSION PLANS. PROVIDE FACTORY MOUNTING HARDWARE (SkeleCore) AND ALL REQUIRED ACCESSORIES. COORDINATE MOUNTING HEIGHT AND LOCATION WITH LIGHTING, STRUCTURAL AND ALL TRADES PRIOR TO ROUGH-IN OR FABRICATING. COORDINATE ROUTING WITH FOLD UP GOALS BEFORE FABRICATING DUCTWORK. PROVIDE OFFSET AS REQUIRED.
9. PROVIDE A COMPLETE AIR TRANSFER SYSTEM.
10. PROVIDE WALL SLEEVE AND FINISHED ESCUTCHEON WALL PLATE WHERE EXPOSED DUCTWORK PENETRATES WALL (TYPICAL AT ALL AREAS).
11. EXPOSED DUCTWORK IN THIS AREA, FLAT OVAL DOUBLE WALL (1" INSULATION) SPIRAL DUCTWORK, PERFORATED INTERNAL LINER. COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND DIRECT AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. ROUTE DUCTWORK TIGHT TO CEILING. DUCTWORK TO BE FIELD PAINTED WITH PAINT GRIP FINISH. DUCTWORK TO BE PAINTED PRIOR TO INSTALL. COORDINATE EXACT COLOR WITH ARCHITECT. SEE DETAIL.
12. EXPOSED DUCTWORK IN THIS AREA, ROUND DOUBLE WALL (1" INSULATION) SPIRAL DUCTWORK, PERFORATED INTERNAL LINER. COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND DIRECT AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. ROUTE DUCTWORK TIGHT TO STRUCTURE. DUCTWORK TO BE FIELD PAINTED WITH PAINT GRIP FINISH. DUCTWORK TO BE PAINTED PRIOR TO INSTALL. COORDINATE EXACT COLOR WITH ARCHITECT. SEE DETAIL.
13. PROVIDE FLASHING AND COUNTER FLASHING AROUND DUCTWORK WHERE IT PENETRATES THRU WALL. SEAL WATER TIGHT. (TYPICAL FOR ALL AREAS).
14. ALUMAGUARD OR APPROVED EQUAL FOR ALL EXTERIOR DUCTWORK. EXTERIOR DUCTWORK SHALL BE R-12 INSULATION.



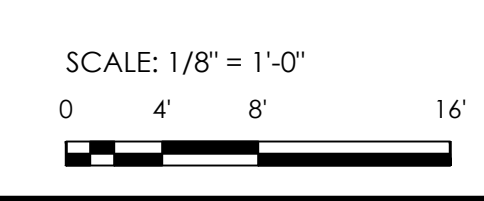
**MECHANICAL FLOOR PLAN - MAIN LEVEL**  
SCALE: 1/8" = 1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA



**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : MECHANICAL FLOOR PLAN - MAIN LEVEL  
 MCKEE JOB # : 24-169  
 DRAWN BY : CK, KN  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :



**MORRIS DAVIS**  
 ENGINEERING LLC  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morrisdavis.com PROJECT NO: 24-088

SHEET NO. : **M1.2**

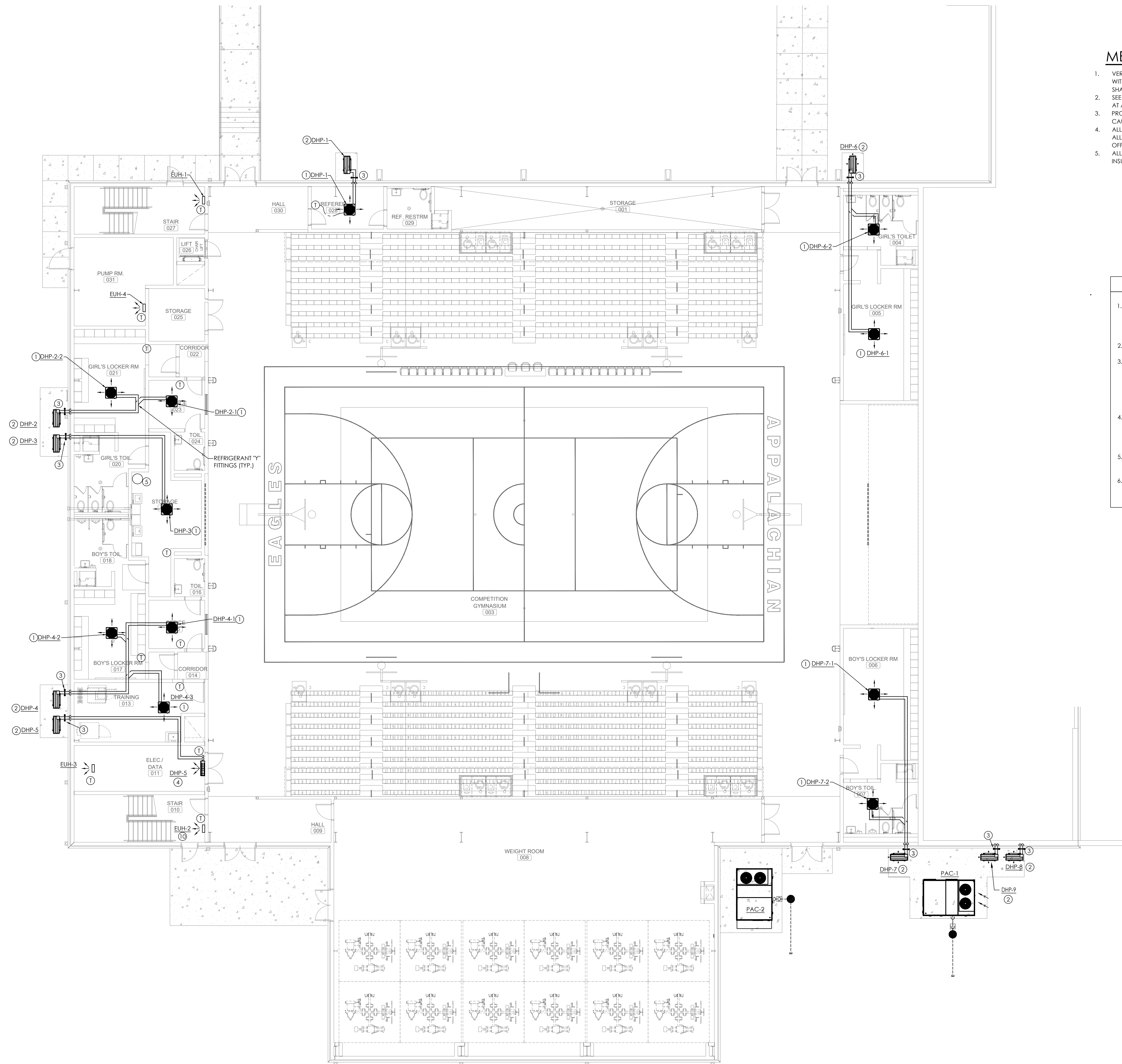


**MECHANICAL GENERAL NOTES**

1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLLERS WITH ARCHITECT PRIOR TO INSTALLATION OR ROUGH-IN. ALL WIRING SHALL BE CONCEALED IN WALL.
2. SEE LIFE SAFETY PLANS FOR ALL RATED WALLS. PROVIDE FIRE DAMPERS AT ALL RATED WALL AND CEILING ASSEMBLIES.
3. PROVIDE PIPING PENETRATION ASSEMBLY (STEEL PIPING SLEEVE, CAULKING, ETC.) AT ALL RATED WALL PENETRATIONS.
4. ALL PIPING SHALL BE COORDINATED WITH LIGHTS, STRUCTURAL AND ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR SHALL MINIMIZE OFFSETS AND BENDS IN PIPING.
5. ALL ABOVE CEILING CONDENSATE PIPING SHALL BE ROUTED IN INSULATED SCHEDULE 40 PVC. COORDINATE WITH PLUMBING PLANS.

**NOTE LEGEND: (THIS SHEET ONLY)**

1. PROVIDE A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) CEILING CASSETTE UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
2. PROVIDE A COMPLETE AND OPERATIONAL OUTDOOR VARIABLE REFRIGERANT FLOW (VRF) HEAT PUMP UNIT. REFRIGERANT PIPING AND CONTROL WIRING FROM OUTDOOR HEAT PUMP UNIT TO ASSOCIATED INDOOR UNIT. COVER EXTERIOR PIPING WITH ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 3'-0" MAX. STRAP CONDUIT AND REFRIGERANT PIPING TO ANCHORED UNI-STRUT EVERY 3'-0" MAX.
3. PROVIDE A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) WALL HUNG UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
4. WATER HEATER SHOWN FOR REFERENCE ONLY. COORDINATE WITH PLUMBING PLANS. NO DUCTWORK SHALL RUN ABOVE WATER HEATERS.
5. ELECTRICAL PANELS SHOWN FOR REFERENCE ONLY. COORDINATE WITH ELECTRICAL PLANS. NO DUCTWORK SHALL RUN ABOVE ELECTRICAL PANELS.



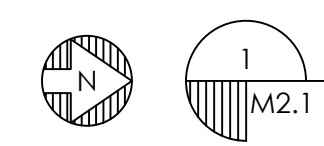
**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
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 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : MECHANICAL PIPING FLOOR PLAN - LOWER LEVEL  
 MCKEE JOB # : 24-169  
 DRAWN BY : CK, KN  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**MECHANICAL PIPING FLOOR PLAN - LOWER LEVEL**



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

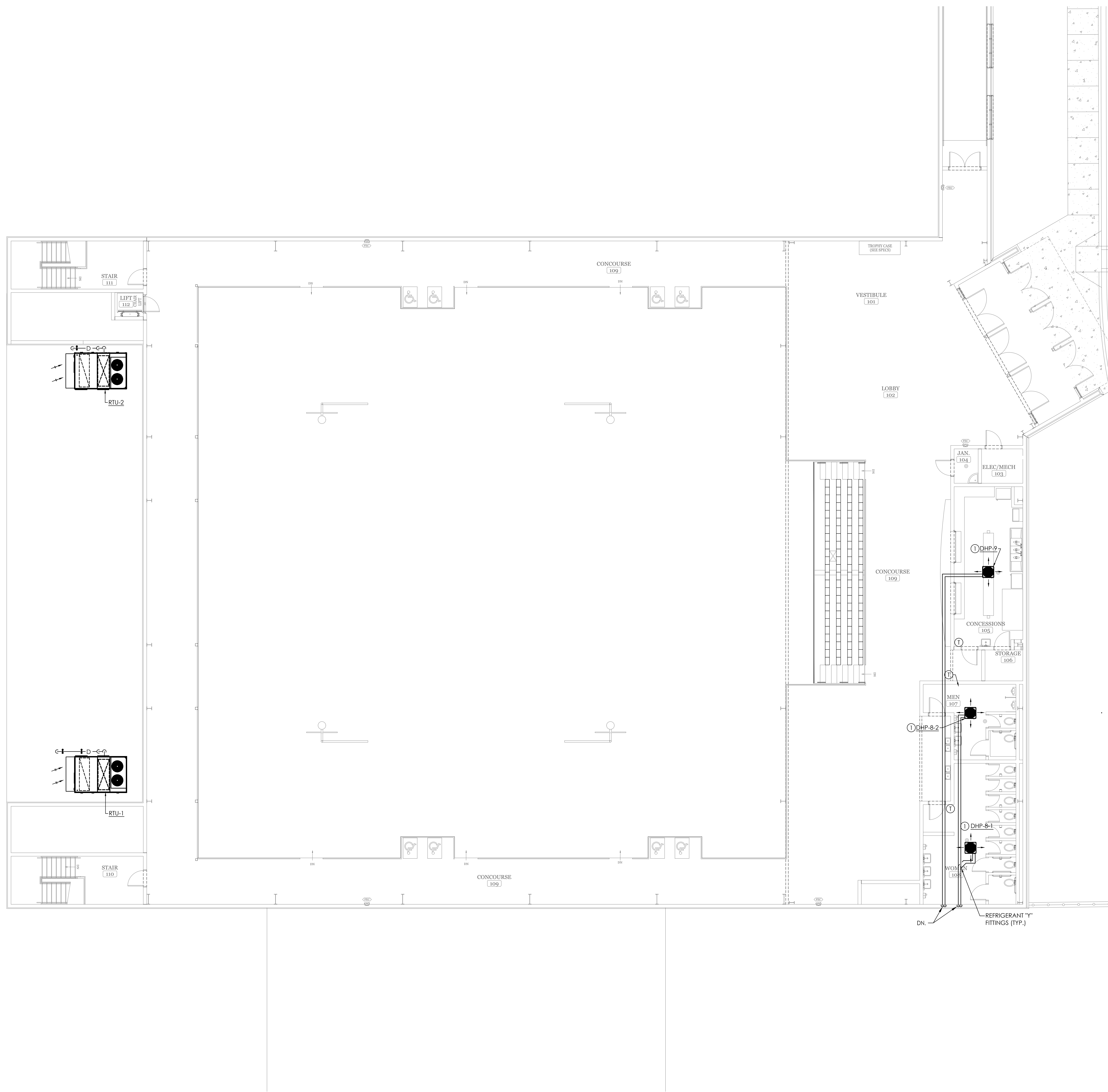
**MORRIS DAVIS**  
**ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **M2.1**

- N:\2024 Jobs\24-088 Appalachian High School Gym\Drawings\Mech\24-088 M2.dwg  
 - Wednesday, September 18, 2024 9:00:45 AM



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- Wednesday, September 18, 2024 9:02:09 AM



### MECHANICAL GENERAL NOTES

1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLLERS WITH ARCHITECT PRIOR TO INSTALLATION OR ROUGH-IN. ALL WIRING SHALL BE CONCEALED IN WALL.
2. SEE LIFE SAFETY PLANS FOR ALL RATED WALLS. PROVIDE FIRE DAMPERS AT ALL RATED WALL AND CEILING ASSEMBLIES.
3. PROVIDE PIPING PENETRATION ASSEMBLY (STEEL PIPING SLEEVE, CAULKING, ETC.) AT ALL RATED WALL PENETRATIONS.
4. ALL PIPING SHALL BE COORDINATED WITH LIGHTS, STRUCTURAL AND ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR SHALL MINIMIZE OFFSETS AND BENDS IN PIPING.
5. ALL ABOVE CEILING CONDENSATE PIPING SHALL BE ROUTED IN INSULATED SCHEDULE 40 PVC. COORDINATE WITH PLUMBING PLANS.

### NOTE LEGEND: (THIS SHEET ONLY)

1. PROVIDE A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) CEILING CASSETTE UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
2. PROVIDE A COMPLETE AND OPERATIONAL OUTDOOR VARIABLE REFRIGERANT FLOW (VRF) HEAT PUMP UNIT.
3. REFRIGERANT PIPING AND CONTROL WIRING FROM OUTDOOR HEAT PUMP UNIT TO ASSOCIATED INDOOR UNIT. COVER EXTERIOR PIPING WITH ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 3'-0" MAX. STRAP CONDUIT AND REFRIGERANT PIPING TO ANCHORED UNI-STRUT EVERY 3'-0" MAX.
4. PROVIDE A COMPLETE AND OPERATIONAL DUCTLESS VARIABLE REFRIGERANT FLOW (VRF) WALL HUNG UNIT WITH ALL REQUIRED ACCESSORIES. PROVIDE WIRED WALL CONTROLLER. COORDINATE LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
5. WATER HEATER SHOWN FOR REFERENCE ONLY. COORDINATE WITH PLUMBING PLANS. NO DUCTWORK SHALL RUN ABOVE WATER HEATERS.
6. ELECTRICAL PANELS SHOWN FOR REFERENCE ONLY. COORDINATE WITH ELECTRICAL PLANS. NO DUCTWORK SHALL RUN ABOVE ELECTRICAL PANELS.

**MECHANICAL PIPING FLOOR PLAN - MAIN LEVEL**

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

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

**MORRIS DAVIS ENGINEERING LLC**  
903 SOUTH PERRY STREET  
MONTGOMERY, AL 36104  
T. (334) 269-0329  
www.morriseng.com PROJECT NO: 24-088

SHEET TITLE : MECHANICAL PIPING FLOOR PLAN - MAIN LEVEL

MCKEE JOB # : 24-169

DRAWN BY : CK, KN

DATE : 9.18.24

REVISED DATE :

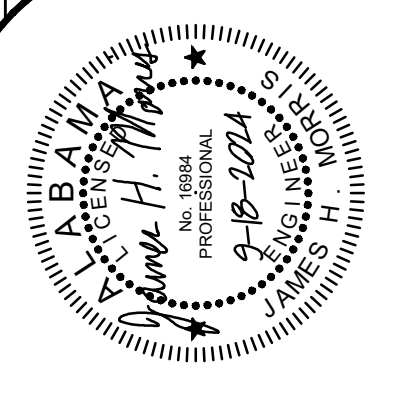
REVISED DATE :

REVISED DATE :

SHEET NO. : **M2.2**

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933









EXHAUST FAN SCHEDULE									
SYMBOL	CFM	EXT. S.P. INCHES H <sub>2</sub> O	MAX. RPM	SONES	FAN SERIES	POWER WATTS / H.P.	ELECTRICAL	CONTROLS	REMARKS
EF-1	50	.3	710	1.1	100	26 /	120/1/60	RTU-2	1,2,3,5
EF-2	415	.3	1591	5.5	500	118 /	120/1/60	RTU-2	1,2,3,5
EF-3	50	.3	710	1.1	100	26 /	120/1/60	RTU-1	1,2,3,5
EF-4	415	.3	1591	5.5	500	118 /	120/1/60	RTU-1	1,2,3,5
EF-5	135	.3	980	2.0	100	41 /	120/1/60	RTU-1	1,2,3,5
EF-6	180	.3	925	1.5	100	39 /	120/1/60	RTU-2	1,2,3,5
EF-7	460	.3	1591	5.5	500	118 /	120/1/60	RTU-2	1,2,3,5
EF-8	460	.3	1591	5.5	500	118 /	120/1/60	RTU-1	1,2,3,5
EF-9	490	.3	1591	5.5	500	118 /	120/1/60	PAC-1	1,2,3,5
EF-10	280	.3	1422	4.0	500	102 /	120/1/60	PAC-1	1,2,3,5
EF-11	300	.3	1422	4.0	500	102 /	120/1/60	PAC-1	1,2,3,5
EF-12	70	.3	909	2.0	100	35 /	120/1/60	LIGHT SWITCH	1,2,3,4

- EXHAUST FAN SCHEDULE NOTES:**
- FAN TO BE MOUNTED IN CEILING AS INDICATED ON PLANS. PROVIDE BACKDRAFT DAMPER, SPEED CONTROLLER AND FACTORY MOUNTED VOLTAGE TRANSFORMER NEMA 1 PRE-WIRED, WHITE STEEL GRILL, GEMINI ISOLATOR KIT.
  - COOK MODEL GC EXHAUST FAN, PRODUCTS BY PENN AND GREENHECK ARE ACCEPTABLE.
  - PROVIDE ROUND VENT FROM FAN TO OUTSIDE AS NOTED ON MECHANICAL PLANS.
  - INTERLOCK CONTROLS WITH ASSOCIATED LIGHT SWITCH.
  - INTERLOCK CONTROLS WITH ASSOCIATED ROOFTOP AIR HANDLING UNIT CONTROLLER, PROVIDE TRANSFORMER AS REQUIRED FOR CONTROLLER TO ENERGIZE FAN DURING OCCUPIED MODE.

VARIABLE REFRIGERANT OUTDOOR UNIT SCHEDULE							
TOTAL MBH	COOLING MIN. (1)		HEATING MBH	OUTDOOR ELEC.	SOUND db(A)	REMARKS	BASIS OF DESIGN MITSUBISHI MODEL:
	TOTAL MBH	EER (2)					
DHP-1	9.0	13.4	12.0	208/1/60	48	1,2,3,4,5	NTXKS09A112BA
DHP-2	36.4	9.4	36.4	208/1/60	54	1,2,3,4,5	NTXMMX36A142CA
DHP-3	12.0	13.3	13.0	208/1/60	54	1,2,3,4,5	NTXKS12A112BA
DHP-4	60.0	13.3	66.0	208/1/60	58	1,2,3,4,5	NTXMSM60A182BA
DHP-5	13.6	13.0	18.1	208/1/60	49	1,2,3,4,5	NTXST12B112AA
DHP-6	36.4	9.4	36.4	208/1/60	54	1,2,3,4,5	NTXMMX36A142CA
DHP-7	36.4	9.4	36.4	208/1/60	54	1,2,3,4,5	NTXMMX36A142CA
DHP-8	60.0	13.3	66.0	208/1/60	58	1,2,3,4,5	NTXMSM60A182BA
DHP-9	36.0	10.8	40.0	208/1/60	54	1,2,3,4,5	TRUZA0361KA70NA

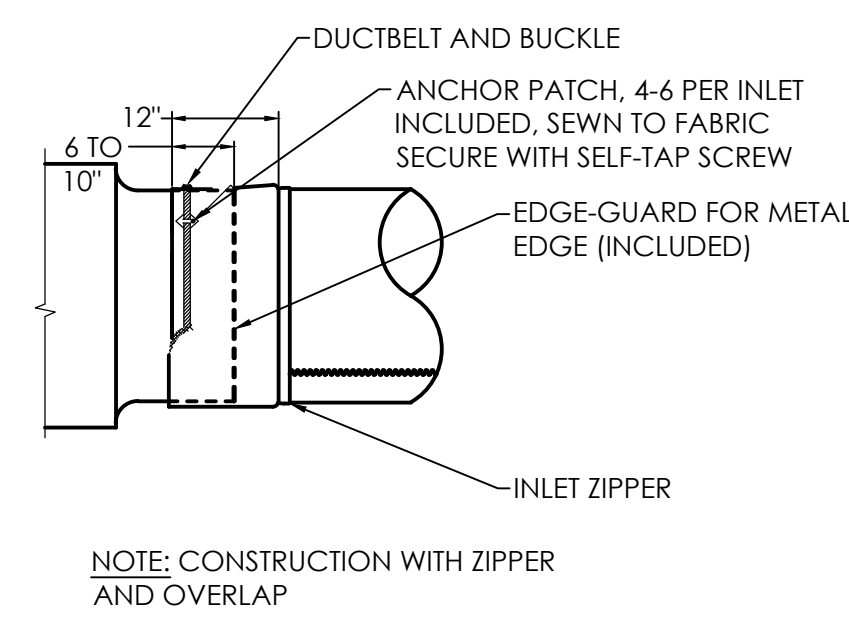
- VARIABLE REFRIGERANT OUTDOOR UNIT SCHEDULE NOTES:**
- CAPACITY BASED ON EDB 80°F, EWB 67°F, AND AMBIENT 95°F.
  - RATED IN ACCORDANCE WITH AHR STANDARD 210-81.
  - PROVIDE MINIMUM AMBIENT TEMPERATURE COOLING OF 23 DEGREE F DB.
  - PROVIDE HAIL GUARD ON COIL.
  - PROVIDE SINGLE POINT POWER CONNECTION. ALL MINI-SPLIT OUTDOOR WIRING SHALL BE IN MINI-SPLIT CABLE OR WIRING SHALL BE RUN IN METAL CONDUIT.

VRF INDOOR DUCTLESS HEAT PUMP UNIT SCHEDULE												
SYMBOL	TOTAL CFM	O.A. CFM		MOTOR OUTPUT KW/A	COOLING MIN. (1)		HEATING MBH (2)	INDOOR ELEC.	SOUND db(A)	REMARKS	BASIS OF DESIGN MITSUBISHI MODEL:	
		O.A. MIN.	O.A. MAX		TOTAL MBH	SEN. MBH						
DHP-1	300	N/A	N/A	.029	9.0	7.8	12.0	POWER FROM OUTDOOR UNIT	28	1,2,3,4,5	NTXKS09A112BA	
DHP-2-1	300	N/A	N/A	.029	9.0	6.3	11.0	208/1/60	28	1,2,3,4,5	NTXKS09A112BA	
DHP-2-2	810	N/A	N/A	.028	24.0	16.8	26.0	208/1/60	33	1,2,3,4,5	TPLA0A0241EA80A	
DHP-3	335	N/A	N/A	.029	12.0	8.8	13.0	POWER FROM OUTDOOR UNIT	30	1,2,3,4,5	NTXKS12A112BA	
DHP-4-1	315	N/A	N/A	.05/	8.0	5.6	9.0	208/1/60	30	1,2,3,4,5	TPLFY008FM140B	
DHP-4-2	812	N/A	N/A	.12/	24.0	16.8	27.0	208/1/60	32	1,2,3,4,5	TPLFY024EM142A	
DHP-4-3	460	N/A	N/A	.05/	18.0	12.6	20.0	208/1/60	39	1,2,3,4,5	TPLFY018FM140B	
DHP-5	381	N/A	N/A	.03/	13.6	10.4	18.1	POWER FROM OUTDOOR UNIT	30	1,2,3,4,5	NTXWST12B112AA	
DHP-6-1	810	N/A	N/A	.028	24.0	16.8	26.0	208/1/60	33	1,2,3,4,5	TPLA0A0241EA80A	
DHP-6-2	300	N/A	N/A	.029	9.0	6.3	11.0	208/1/60	28	1,2,3,4,5	NTXKS09A112BA	
DHP-7-1	810	N/A	N/A	.028	24.0	16.8	26.0	208/1/60	33	1,2,3,4,5	TPLA0A0241EA80A	
DHP-7-2	300	N/A	N/A	.029	9.0	6.3	11.0	208/1/60	28	1,2,3,4,5	NTXKS09A112BA	
DHP-8-1	1,095	N/A	N/A	.12/	36.0	25.2	40.0	208/1/60	39	1,2,3,4,5	TPLFY036EM142A	
DHP-8-2	812	N/A	N/A	.12/	24.0	16.8	27.0	208/1/60	32	1,2,3,4,5	TPLFY024EM142A	
DHP-9	920	N/A	N/A	.057	36.0	25.2	40.0	POWER FROM OUTDOOR UNIT	39	1,2,3,4,5	TPLA0361EA80A	

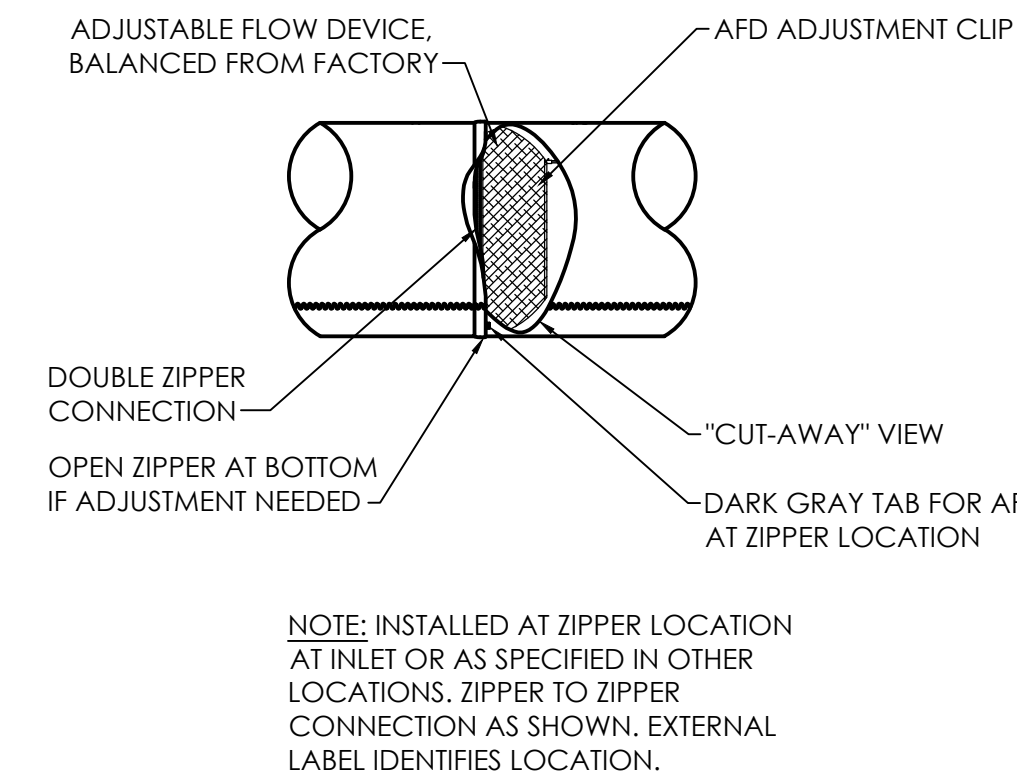
- VRF INDOOR DUCTLESS HEAT PUMP UNIT SCHEDULE NOTES:**
- CAPACITY BASED ON EDB 80°F, EWB 67°F, & AMBIENT 95°F.
  - CAPACITY BASED ON EDB 70°F, AMBIENT DB 47°F, & AMBIENT RH 70%.
  - PROVIDE SINGLE POINT POWER CONNECTION FOR INDOOR UNIT. PROVIDE BY-SERIES BALL VALVES AT EACH ON SUCTION AND LIQUID LINES AND INTERNAL CONDENSATE PUMP, ALL WIRING, TRANSFORMERS, ETC. SHALL BE FACTORY INSTALLED.
  - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - PROVIDE MINIMUM AMBIENT TEMPERATURE COOLING TO 23°F DB.

SHUTTER WALL MOUNTED EXHAUST FAN SCHEDULE									
SYMBOL	CFM	HP	SONES	WHEEL DIA.	POWER AMPS	ELECTRICAL	CONTROL	REMARKS	BASIS OF DESIGN HESSAIRE MODEL:
SEF-1	300	0.04	5.37	8"	0.6	120/1/60	WALL THERMOSTAT	1,2,3	8SF4V30C
SEF-2	300	0.04	5.37	8"	0.6	120/1/60	WALL THERMOSTAT	1,2,3	8SF4V30C

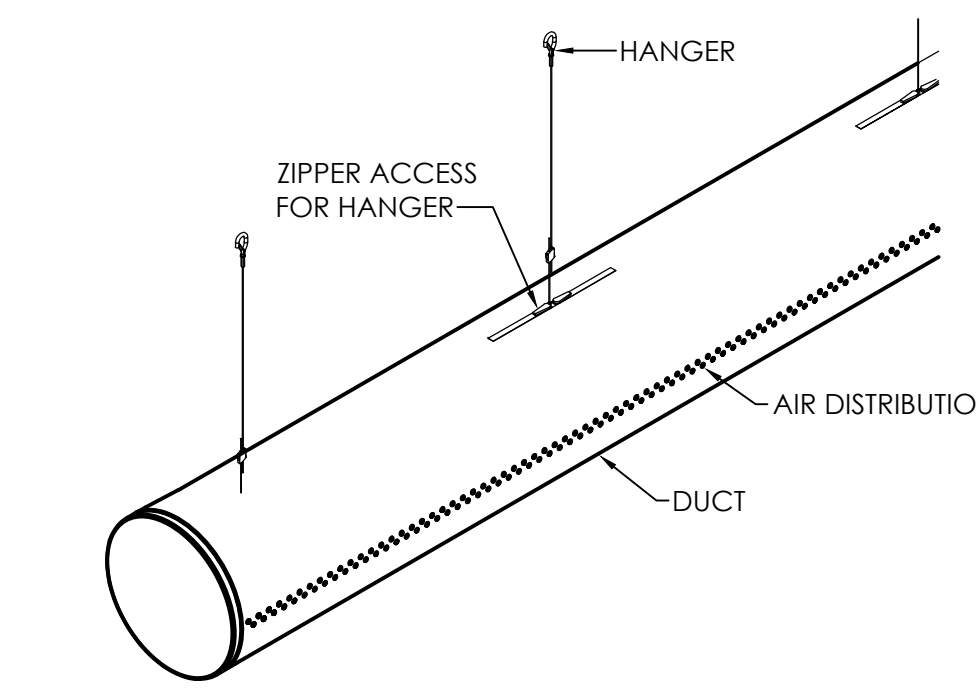
- SHUTTER WALL MOUNTED EXHAUST FAN SCHEDULE NOTES:**
- FAN TO BE MOUNTED IN WALL AS INDICATED ON PLANS. PROVIDE VARIABLE SPEED CONTROLLER AND FACTORY MOUNTED VOLTAGE TRANSFORMER NEMA 1 PRE-WIRED.
  - PROVIDE HEAVY DUTY ALUMINUM SHUTTERS WITH REINFORCED CORNERS, AND AUTOMATIC GRAVITY SHUTTERS THAT OPEN AND CLOSE IN CONJUNCTION WITH THE OPERATION OF THE FAN. FULLY ENCLOSED MOTOR, AND GUARD PROTECTION AROUND BLADES.
  - INTERLOCK CONTROLS WITH ASSOCIATED THERMOSTAT.



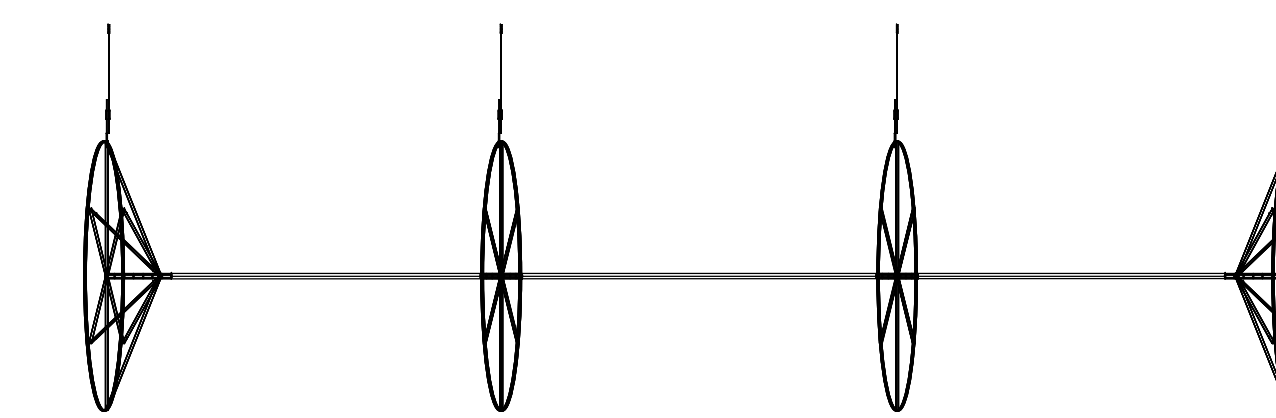
**INLET ATTACHMENT DETAIL (FABRIC DUCT)**  
NO SCALE



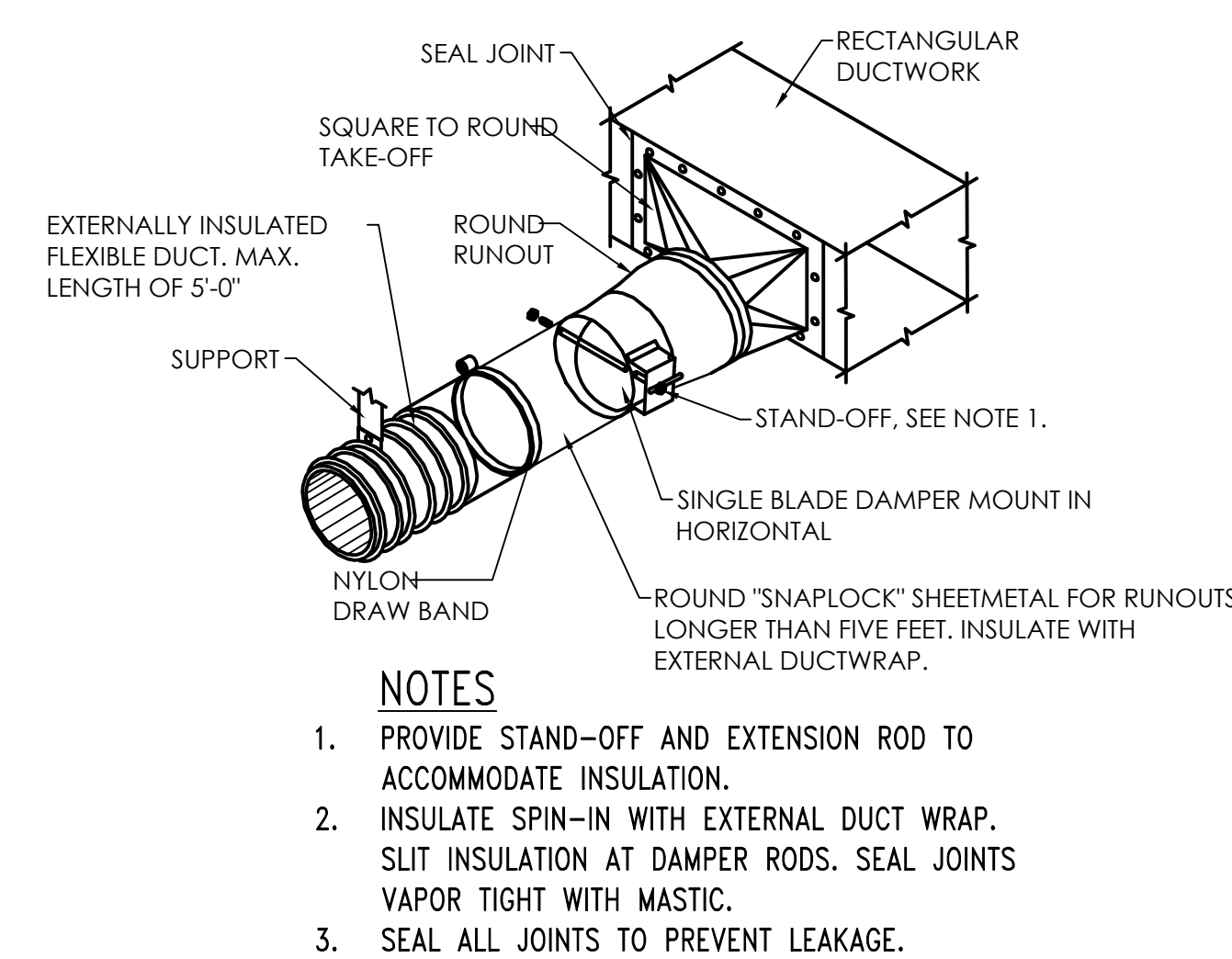
**ADJUSTABLE FLOW DEVICE (AFD) (FABRIC DUCT)**  
NO SCALE



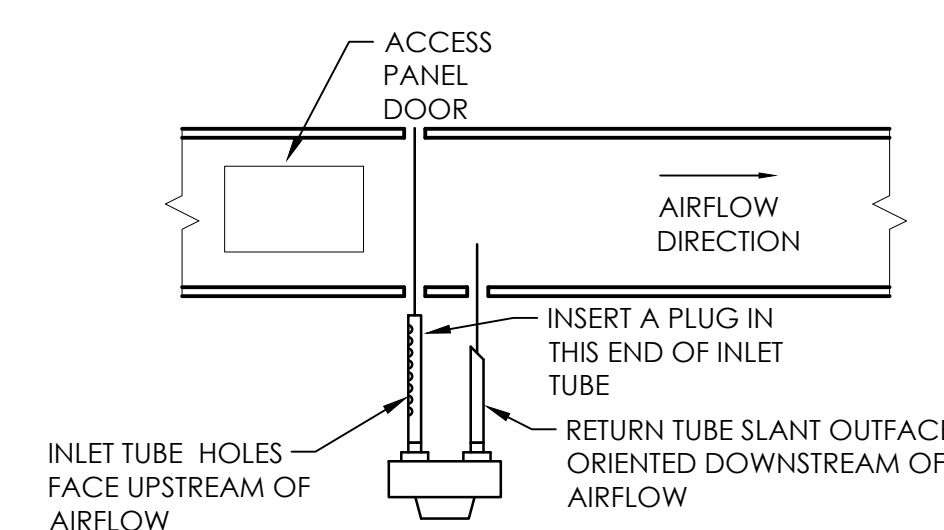
**FABRIC DUCT SUSPENSION DETAIL**  
NO SCALE



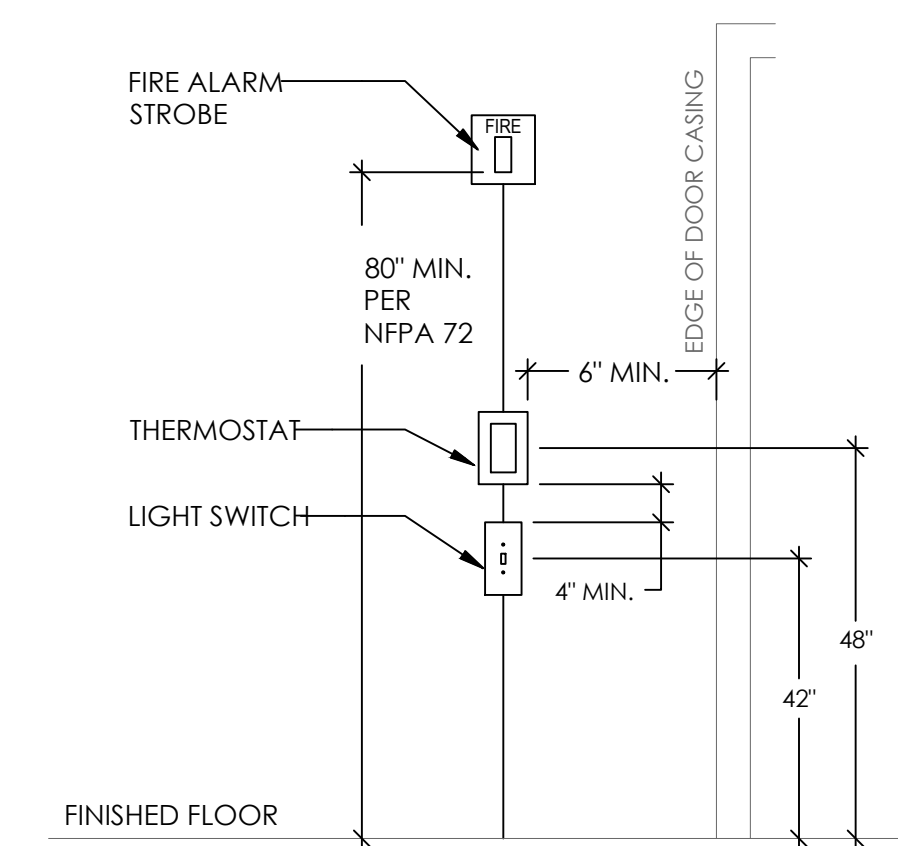
**FABRIC DUCT TENSIONING DETAIL**  
NO SCALE



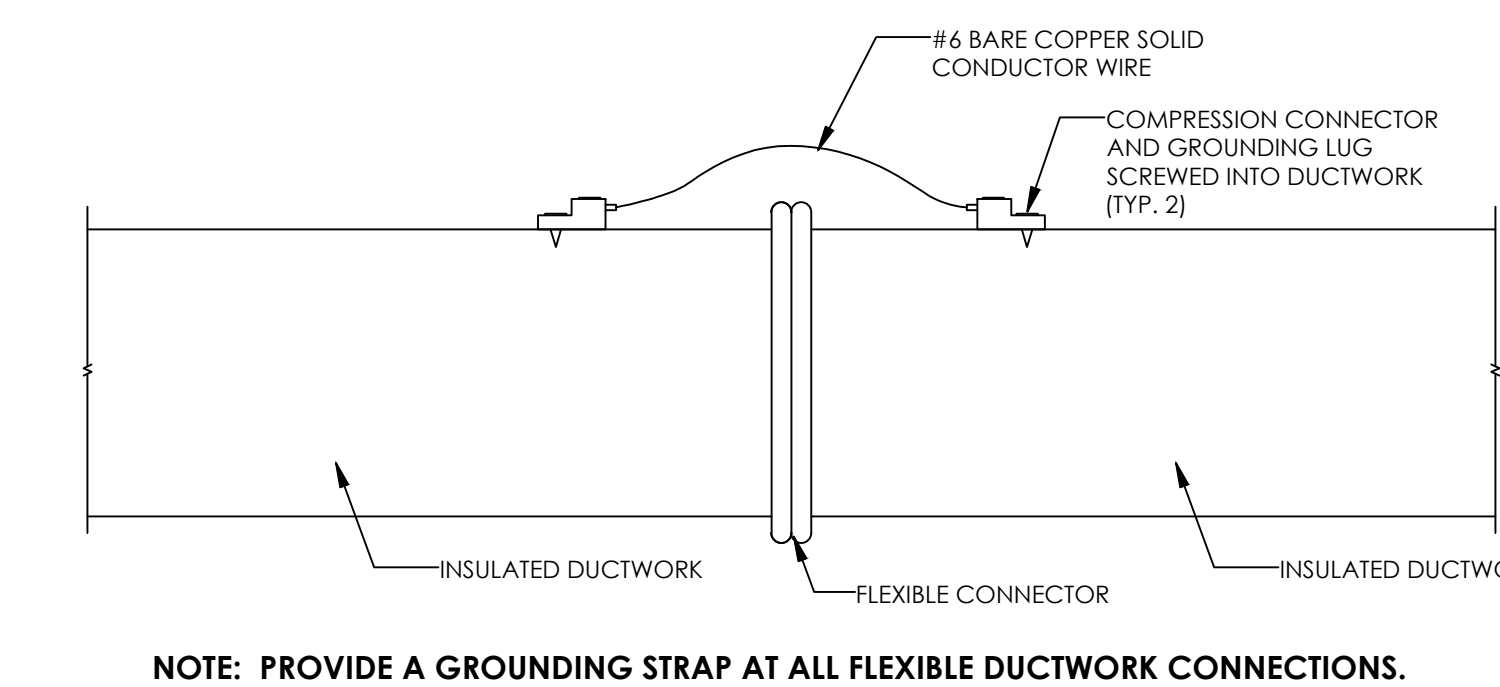
**WITH BRANCH DUCT CONNECTOR DETAIL WITH SQUARE TO ROUND ADAPTER**  
NO SCALE



**SMOKE DETECTOR DETAIL**  
NO SCALE TYP. FOR UNITS 2,000 CFM AND LARGER.



**THERMOSTAT MOUNTING DETAIL**  
NO SCALE



**FLEXIBLE CONNECTION GROUNDING STRAP DETAIL**  
NO SCALE

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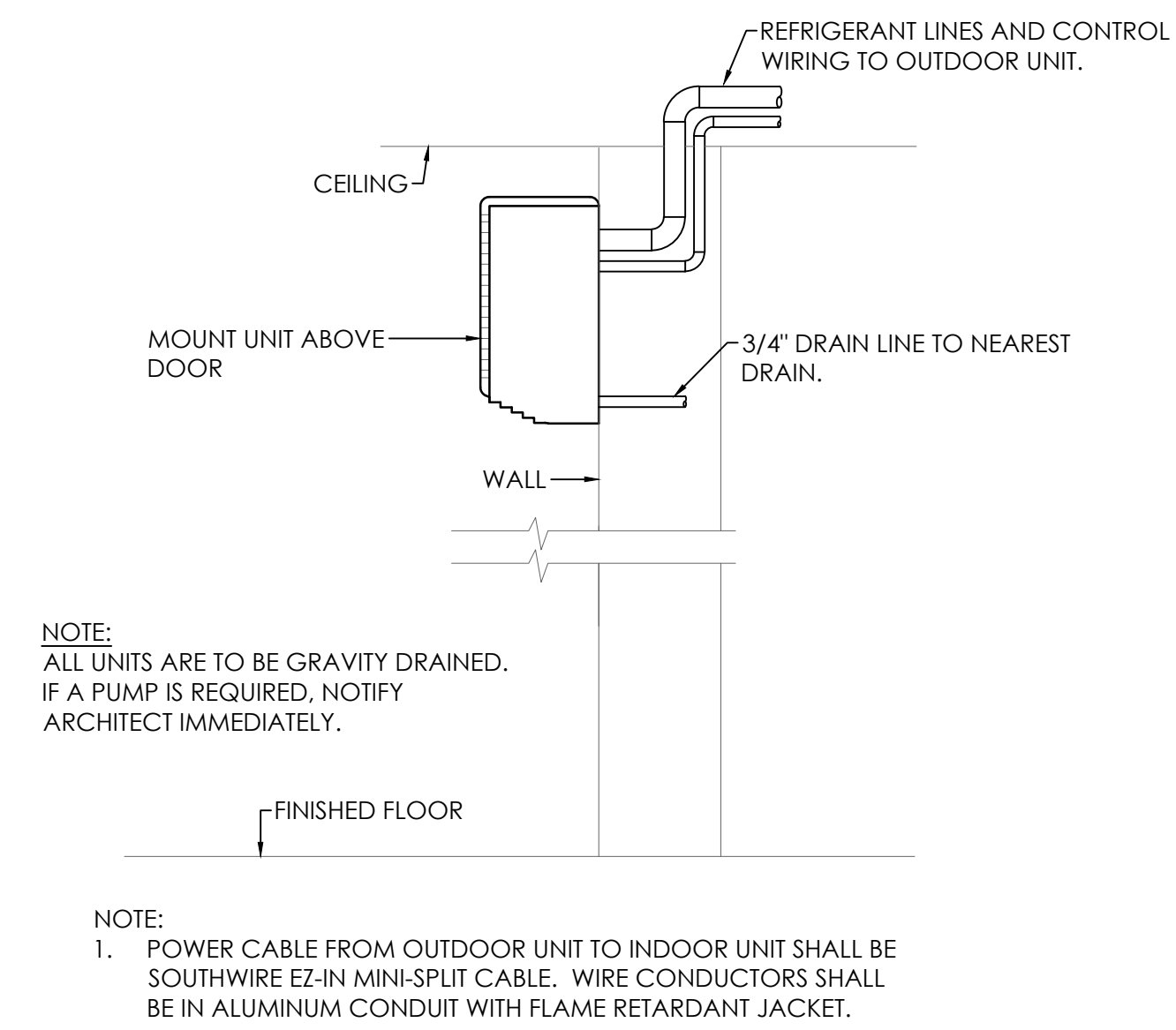
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SHEET TITLE : MECHANICAL SCHEDULES & DETAILS  
 MCKEE JOB # : 24-169  
 DRAWN BY : CAK  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **M3.2**

**MORRIS DAVIS**  
**ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
 MONTGOMERY, AL 36104  
 T. (334) 269-0329  
 www.morriseng.com PROJECT NO: 24-088

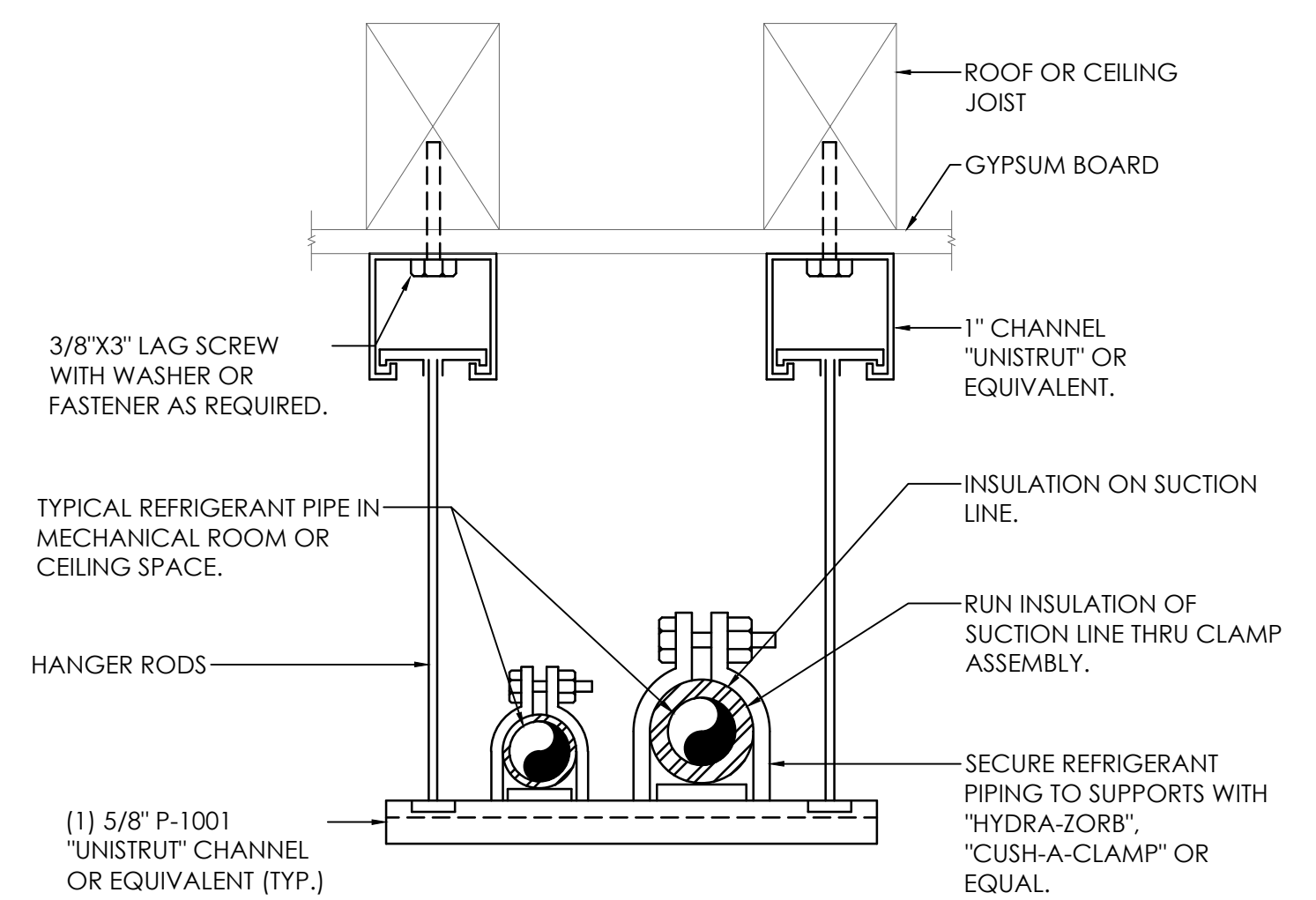




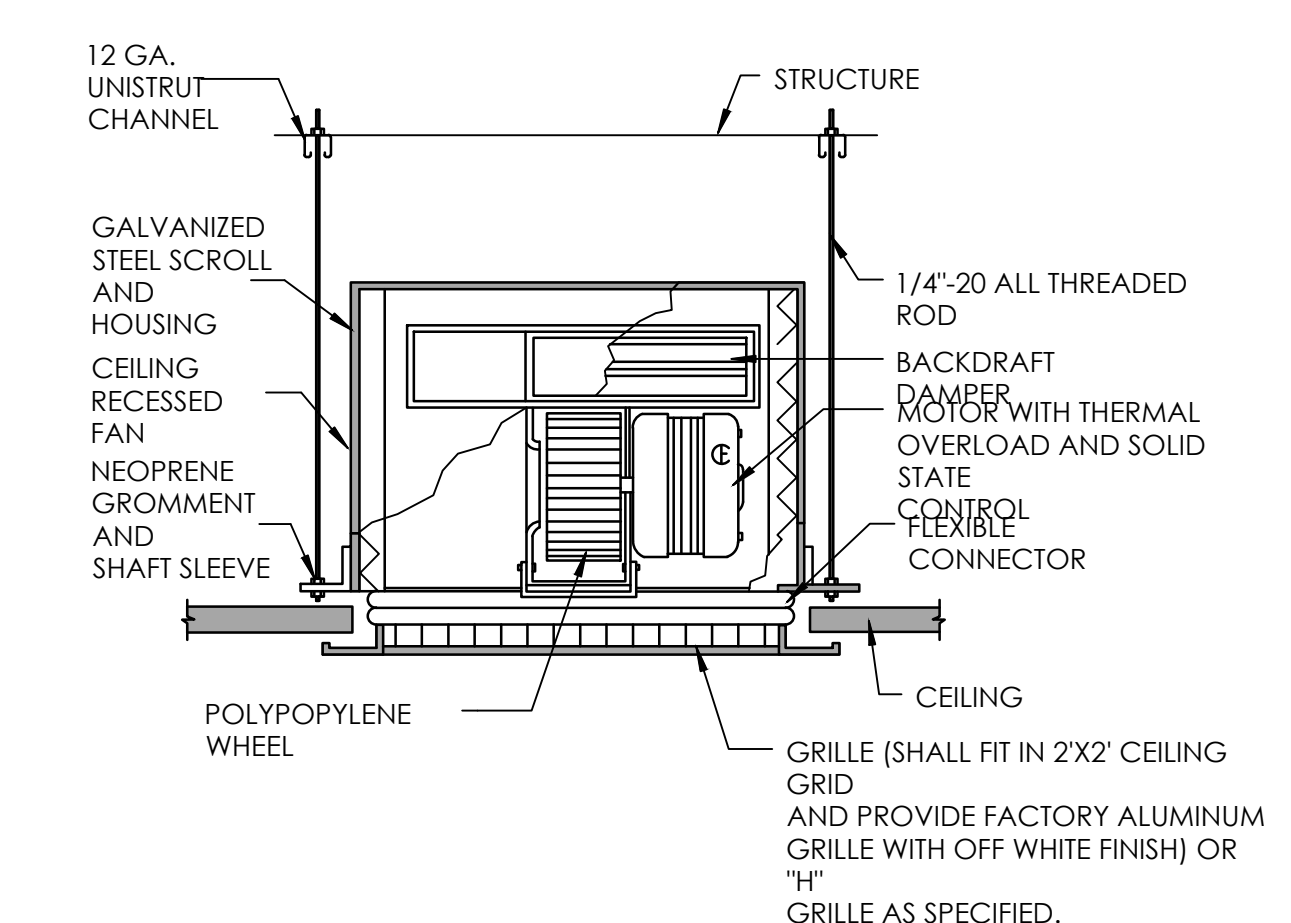
NOTE:  
ALL UNITS ARE TO BE GRAVITY DRAINED.  
IF A PUMP IS REQUIRED, NOTIFY ARCHITECT IMMEDIATELY.

NOTE:  
1. POWER CABLE FROM OUTDOOR UNIT TO INDOOR UNIT SHALL BE SOUTHWIRE EZ-IN MINI-SPLIT CABLE. WIRE CONDUCTORS SHALL BE IN ALUMINUM CONDUIT WITH FLAME RETARDANT JACKET.

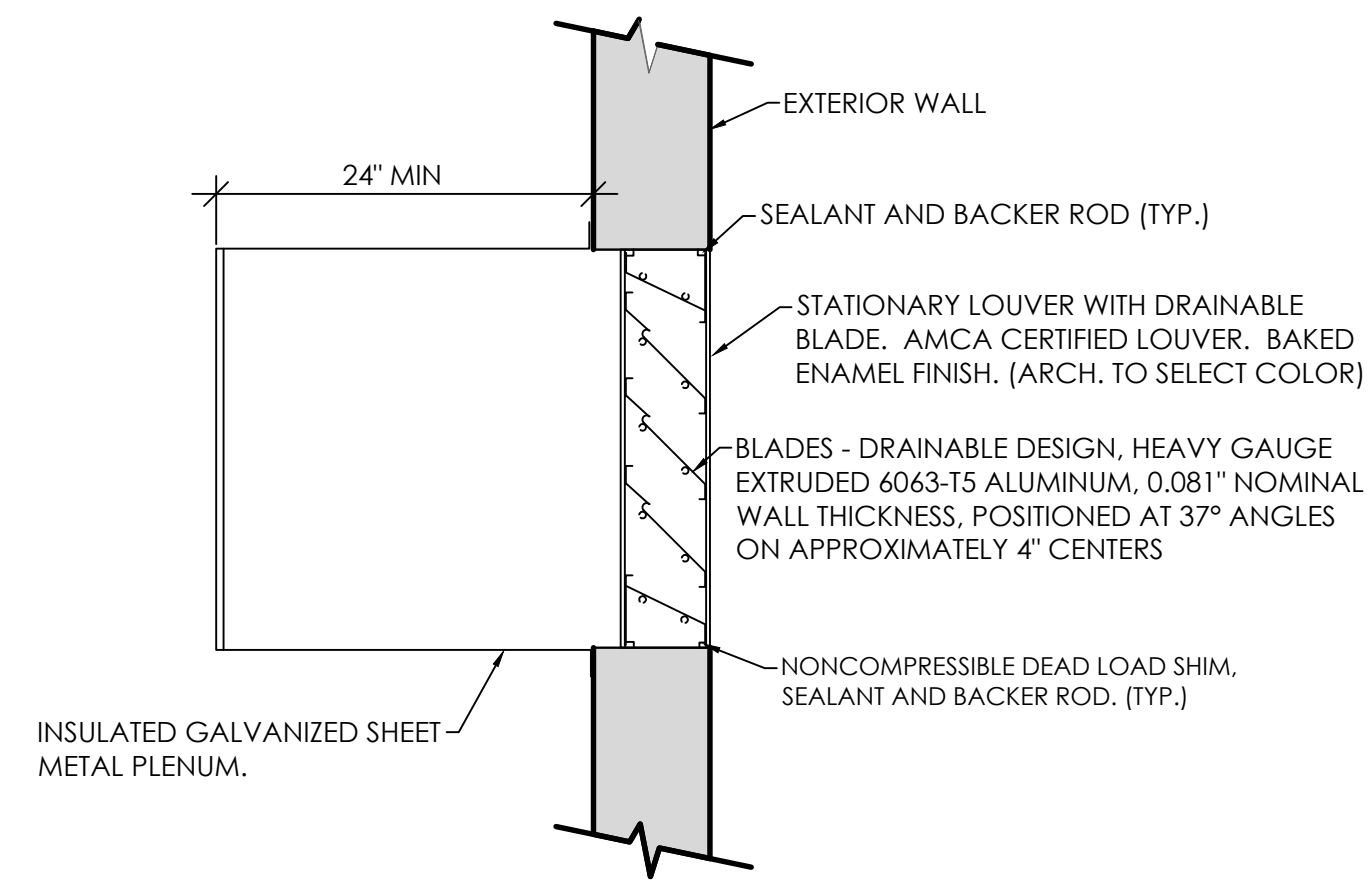
**WALL MOUNTED AC UNIT DETAIL**  
NO SCALE



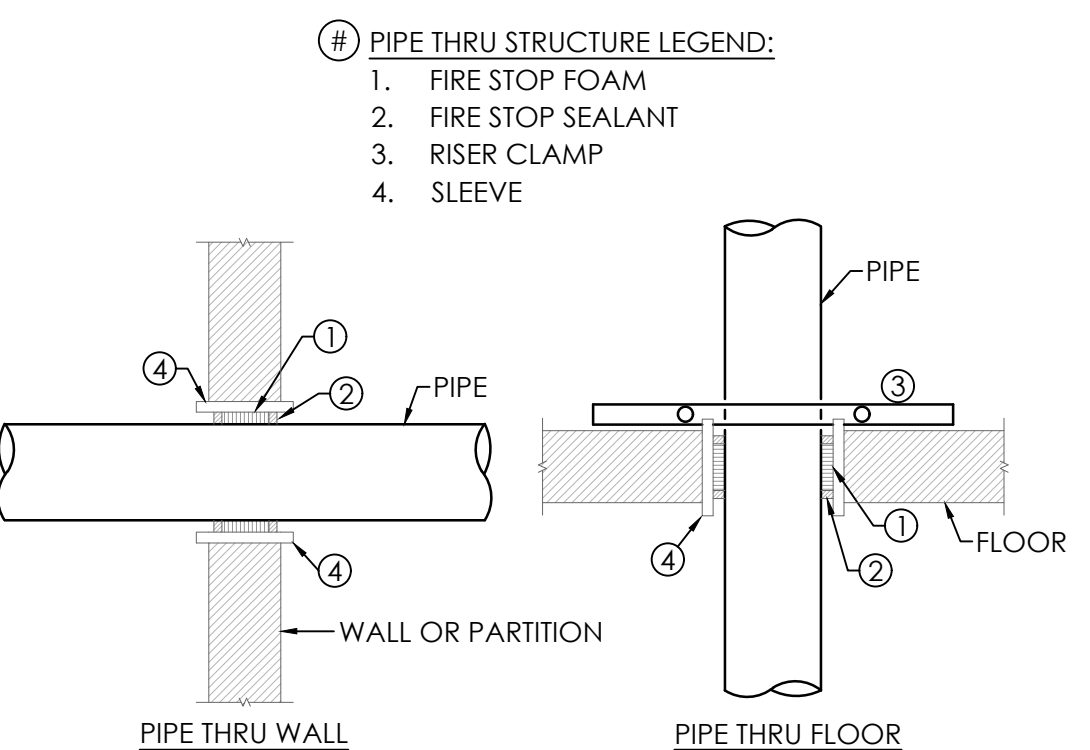
**SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING DETAIL**  
NO SCALE



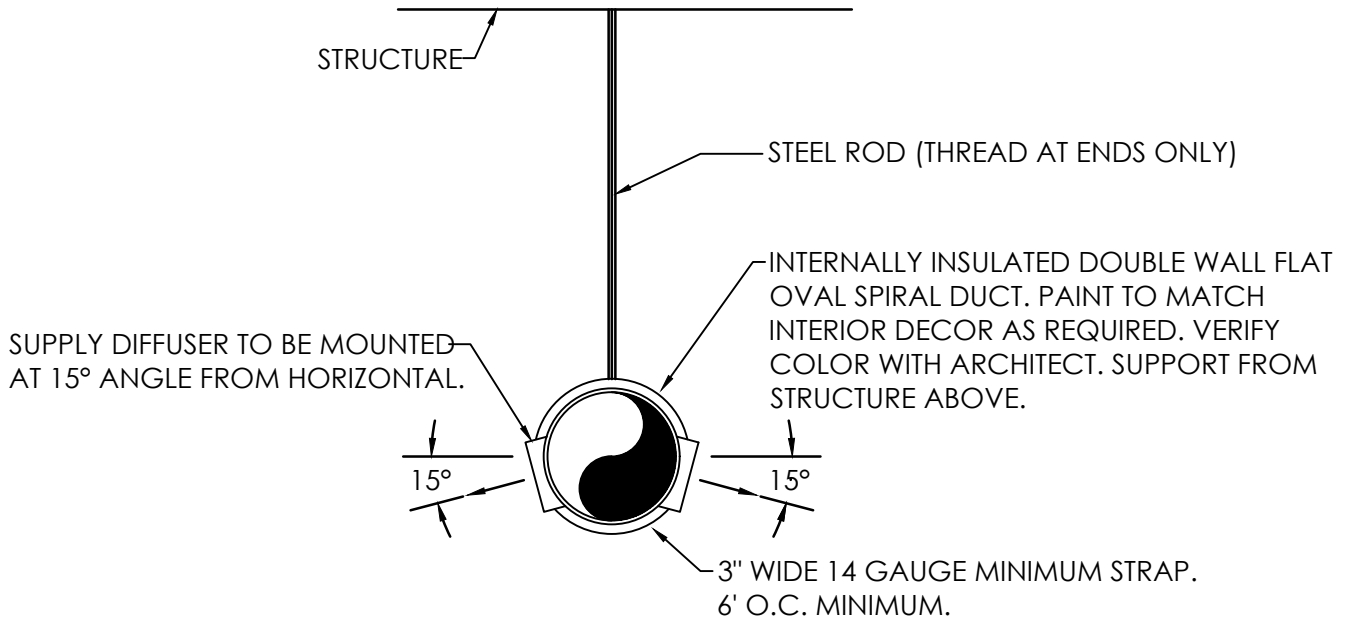
**CEILING MOUNTED EXHAUST FAN DETAIL**  
NO SCALE



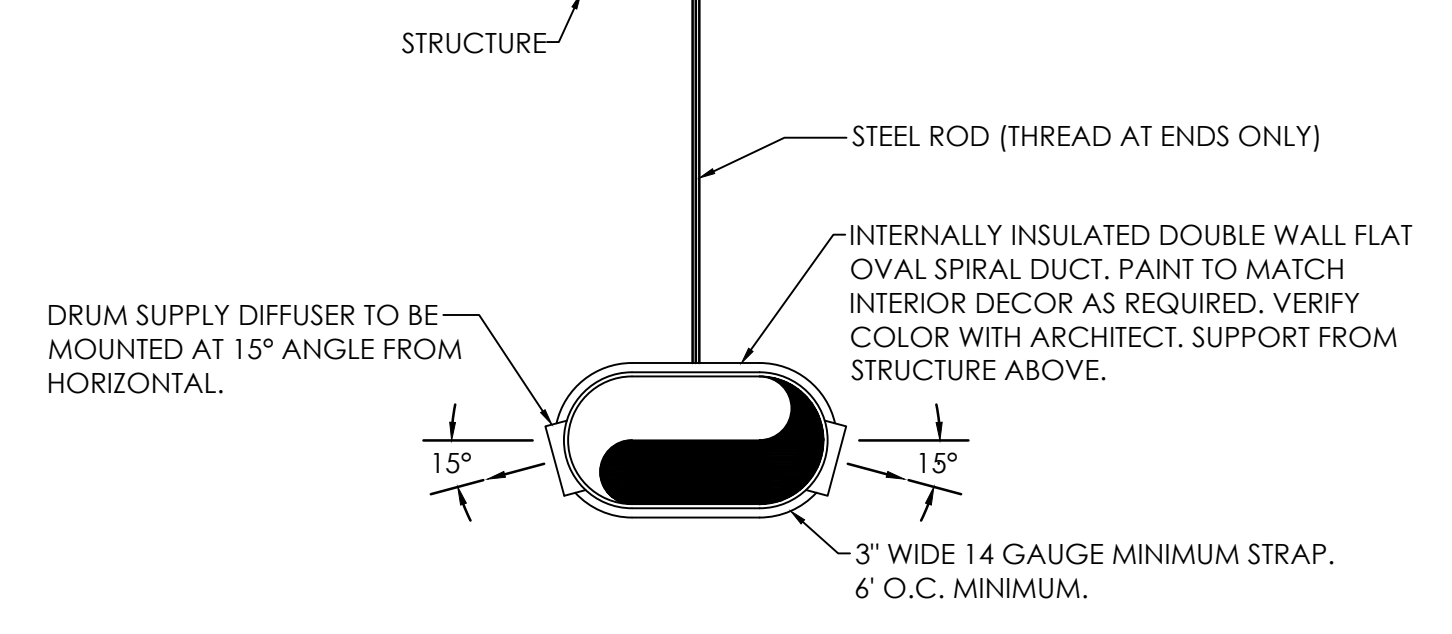
**EXTERIOR LOUVER DETAIL**  
NO SCALE



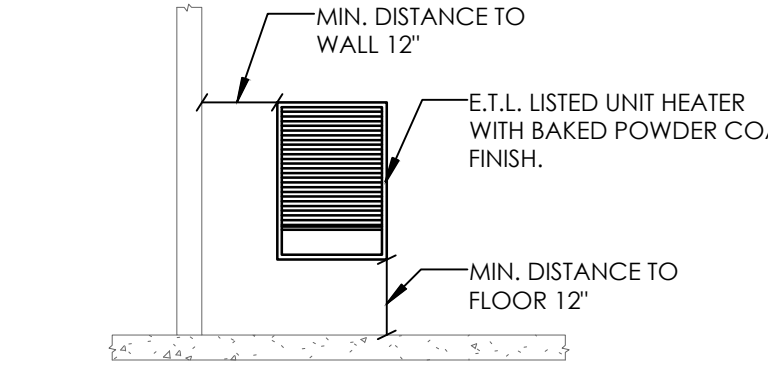
**PIPE THRU STRUCTURE DETAIL**  
NO SCALE



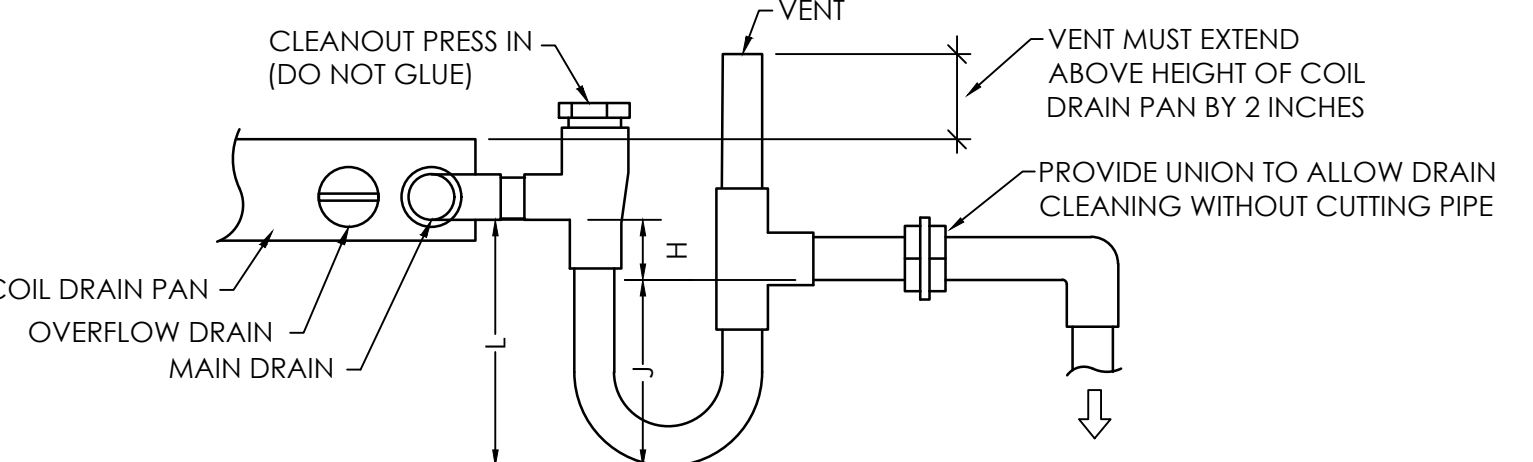
**ROUND SPIRAL EXPOSED DUCTWORK SECTION**  
NO SCALE



**OVAL SPIRAL EXPOSED DUCTWORK SECTION**  
NO SCALE

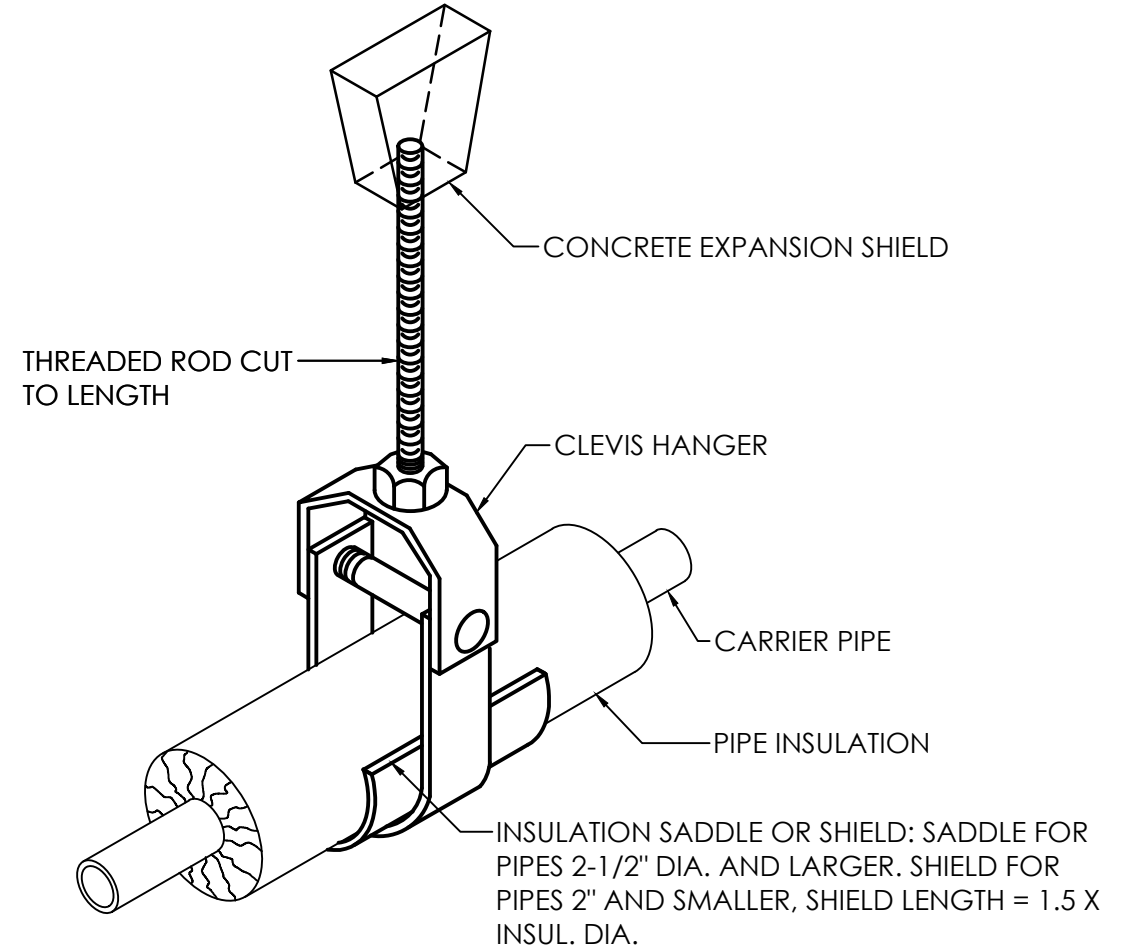


**UNIT HEATER DETAIL**  
NO SCALE

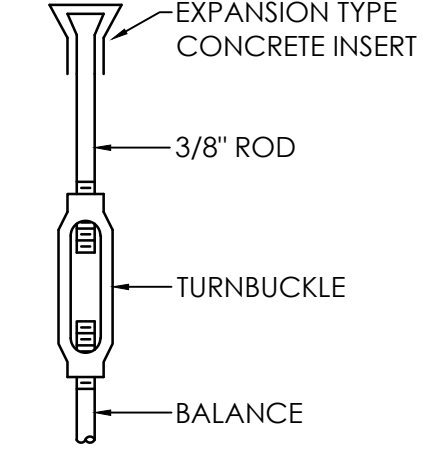


$L = H + J + \text{PIPE DIAMETER WHERE:}$   
 $H = 1 \text{ INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH}$   
 $J = 1/2 \text{ H}$

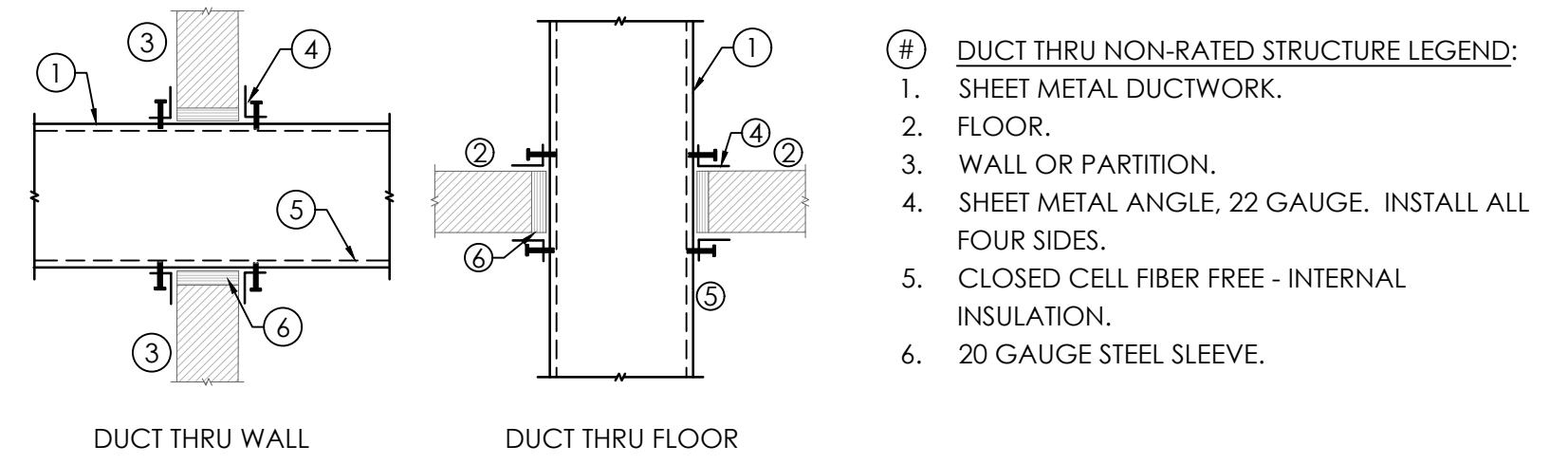
**CONDENSATE DRAIN DETAIL**  
NO SCALE



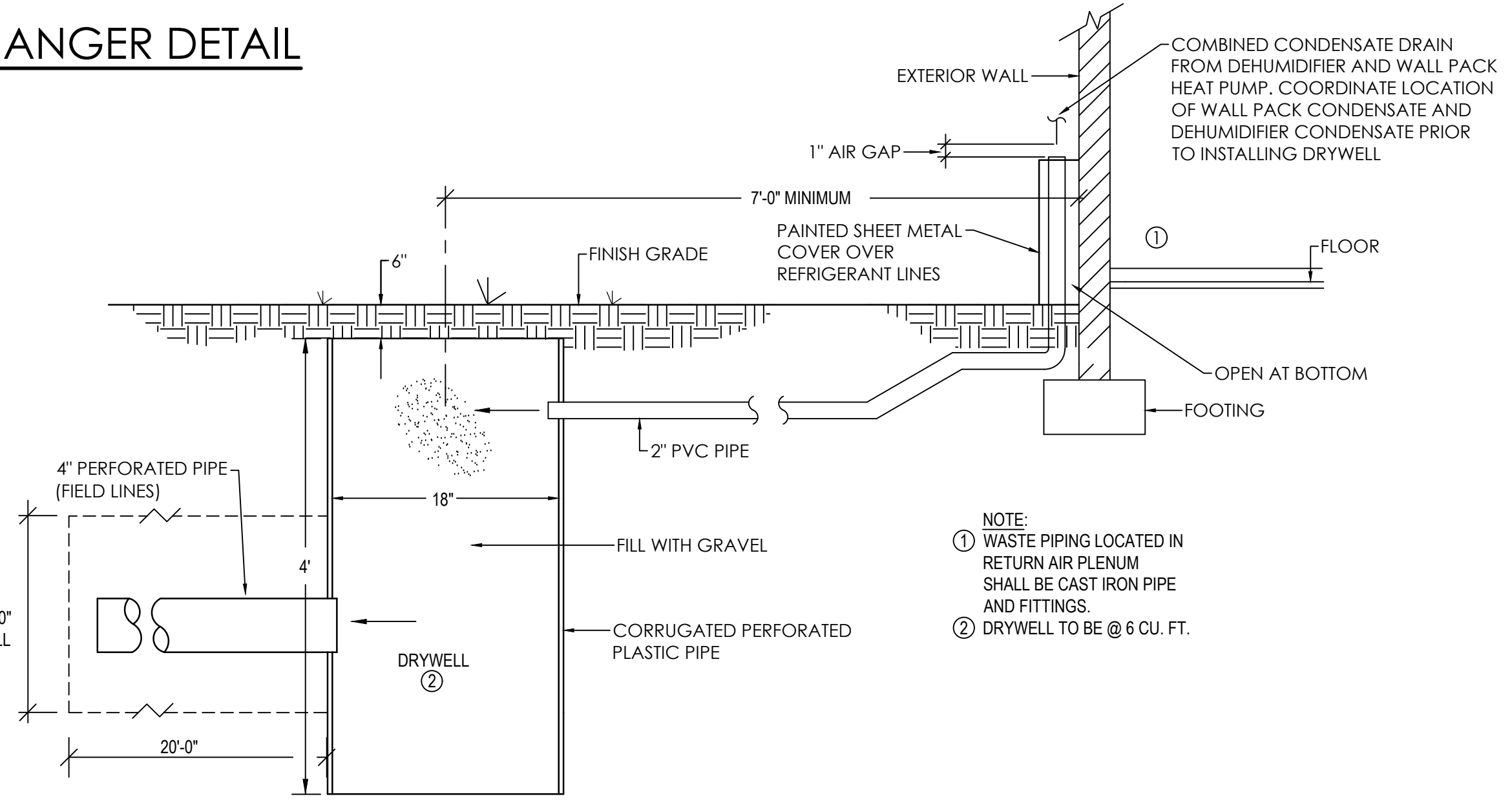
**PIPE HANGER DETAIL**  
NO SCALE



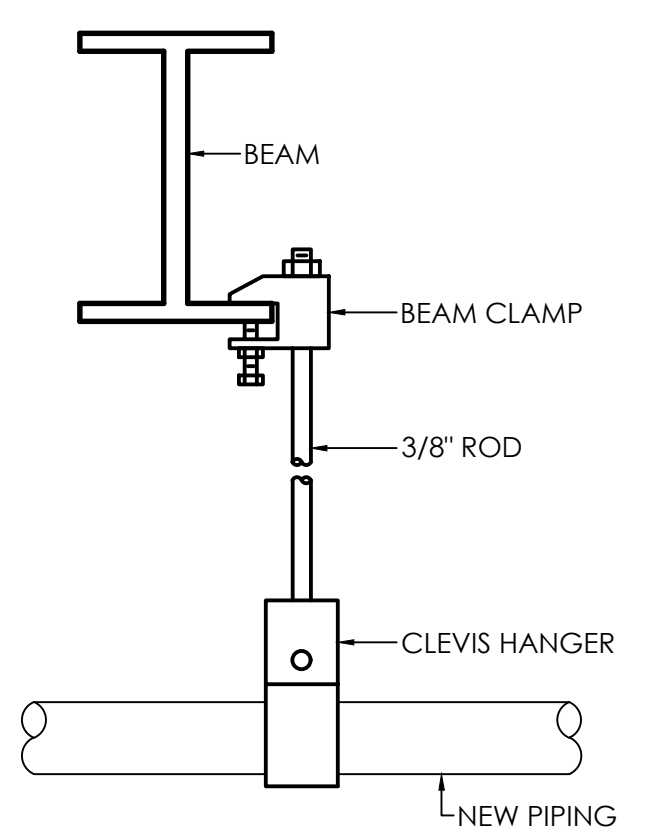
**HANGER DETAIL**  
NO SCALE



**DUCT THRU NON-RATED STRUCTURE DETAIL**  
NO SCALE



**DRYWELL DETAIL**  
NO SCALE



**PIPE HANGER DETAIL**  
NO SCALE

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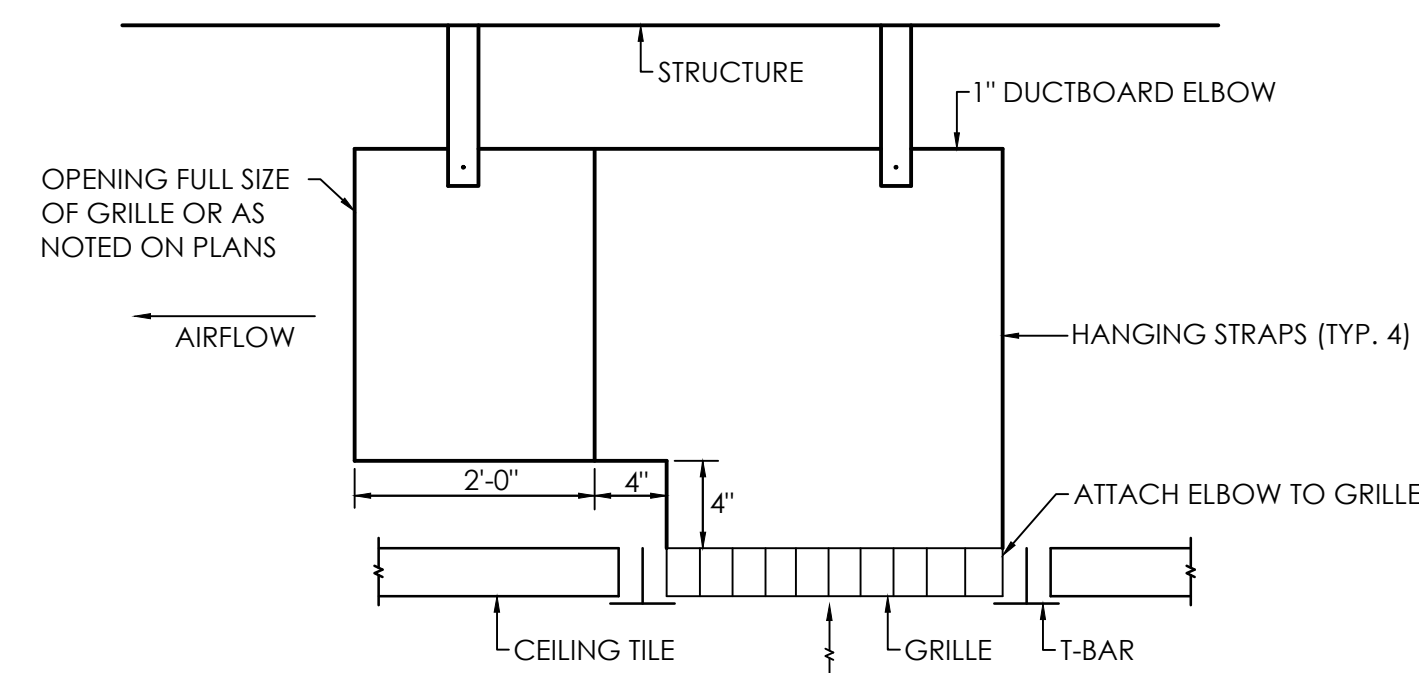


SHEET TITLE : MECHANICAL DETAILS  
 MCKEE JOB # : 24-169  
 DRAWN BY : CAK  
 DATE : 9.18.24  
 REVISED DATE :  
 REVISED DATE :  
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**ENGINEERING LLC**  
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SHEET NO. : **M3.3**

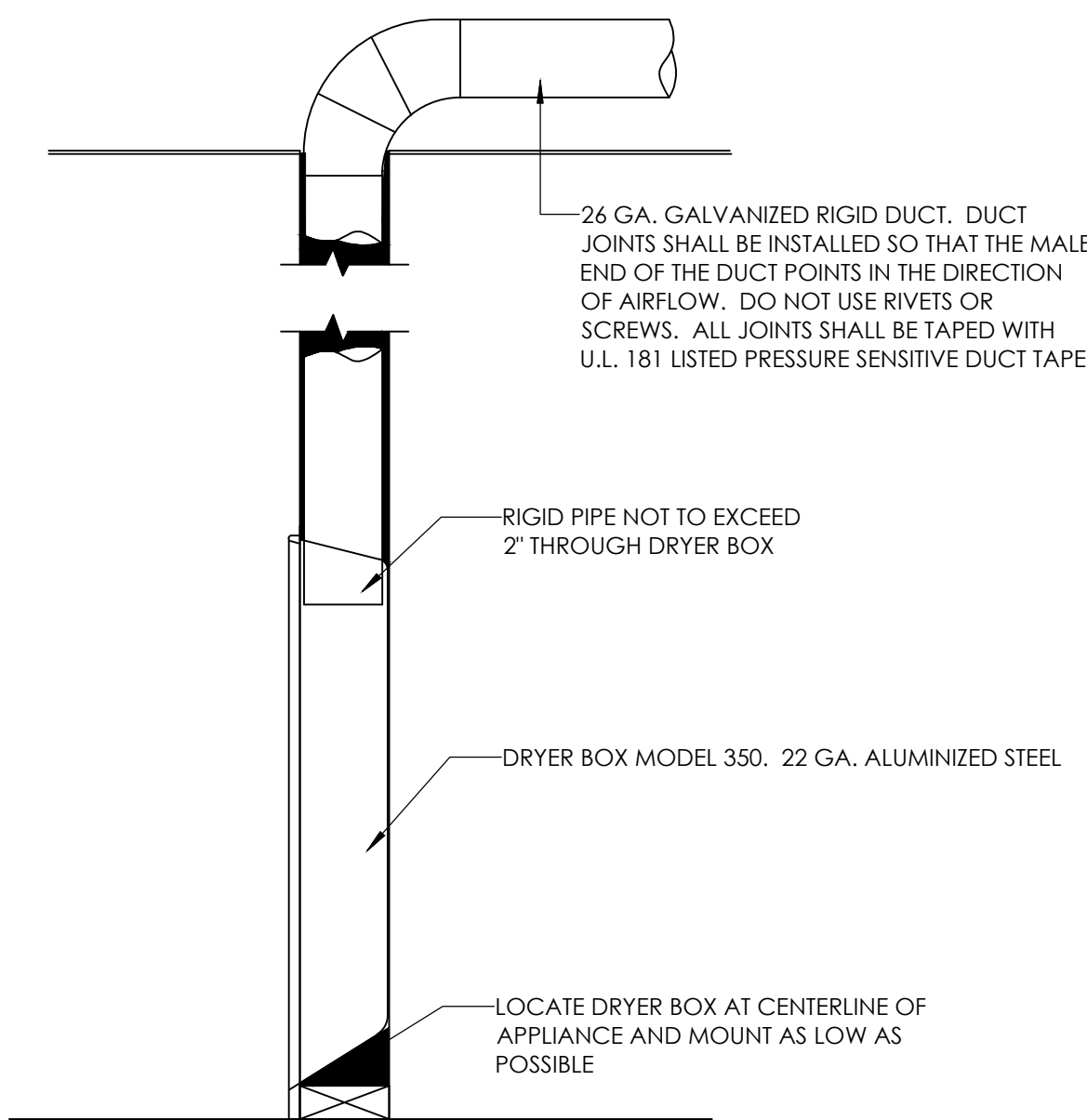




NOTE:  
PROVIDE A RETURN AIR BOOT ON ALL EGG  
CRATE GRILLES MOUNTED IN ABOVE CEILING  
RETURN AIR PLENUM UNLESS NOTED OTHERWISE.

**RETURN AIR BOOT DETAIL**

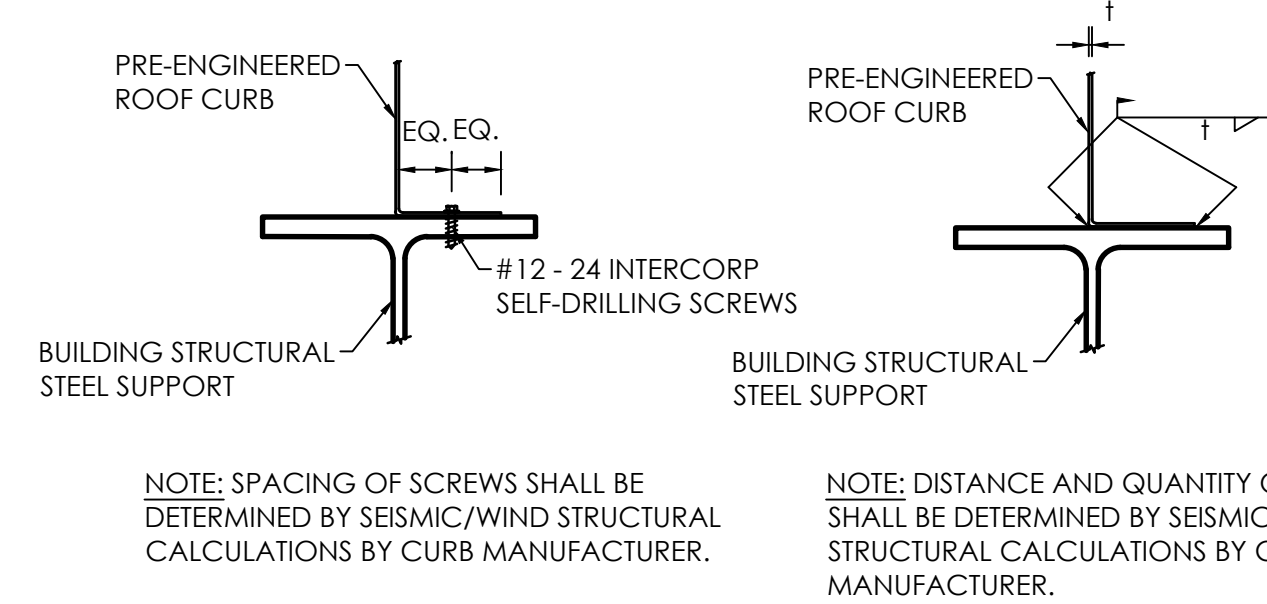
NO SCALE



DRYER BOX LOCATED IN FIRE RATED WALL SHALL BE INSTALLED PER PER U.L.  
SPECIFICATIONS FOR THROUGH-PENETRATIONS UNDERWRITERS LABORATORIES  
THROUGH PENETRATION FIRESTOP SYSTEM. FIRESTOP SYSTEM NUMBER W-L-7129.

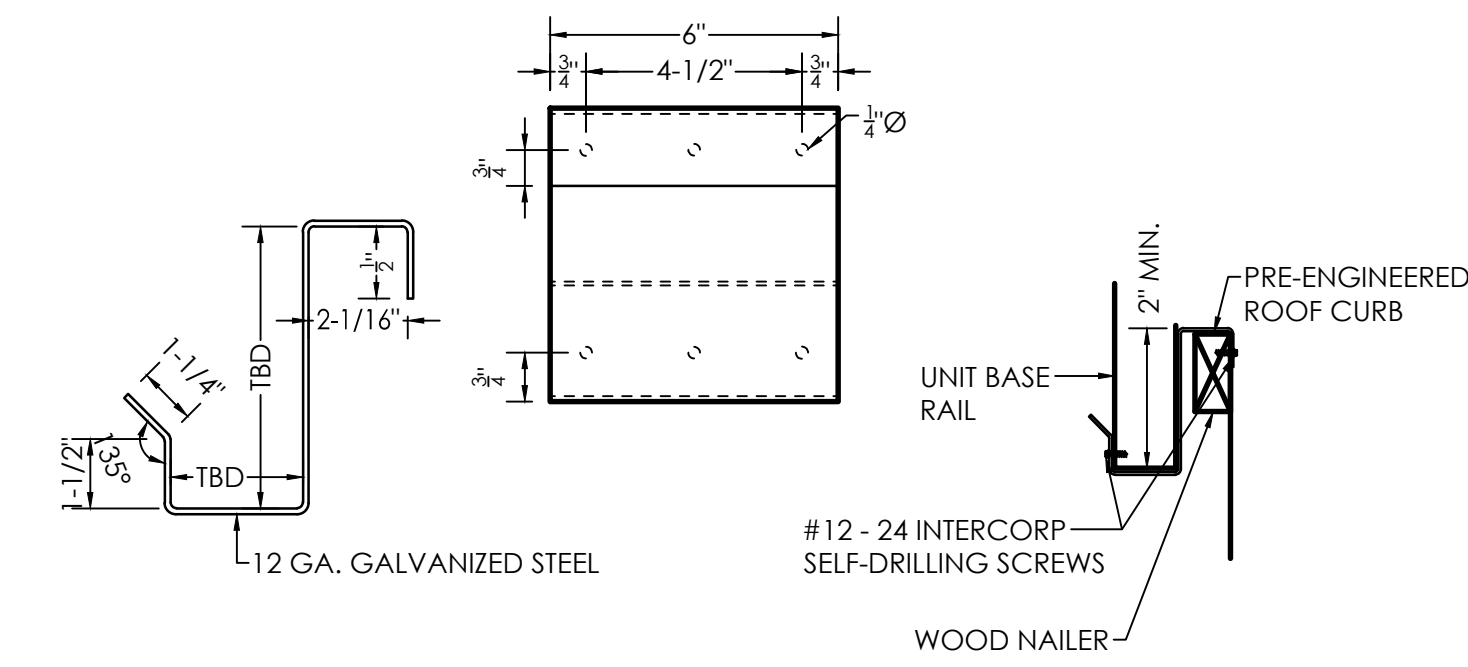
**CLOTHES DRYER VENTING DETAIL**

NO SCALE



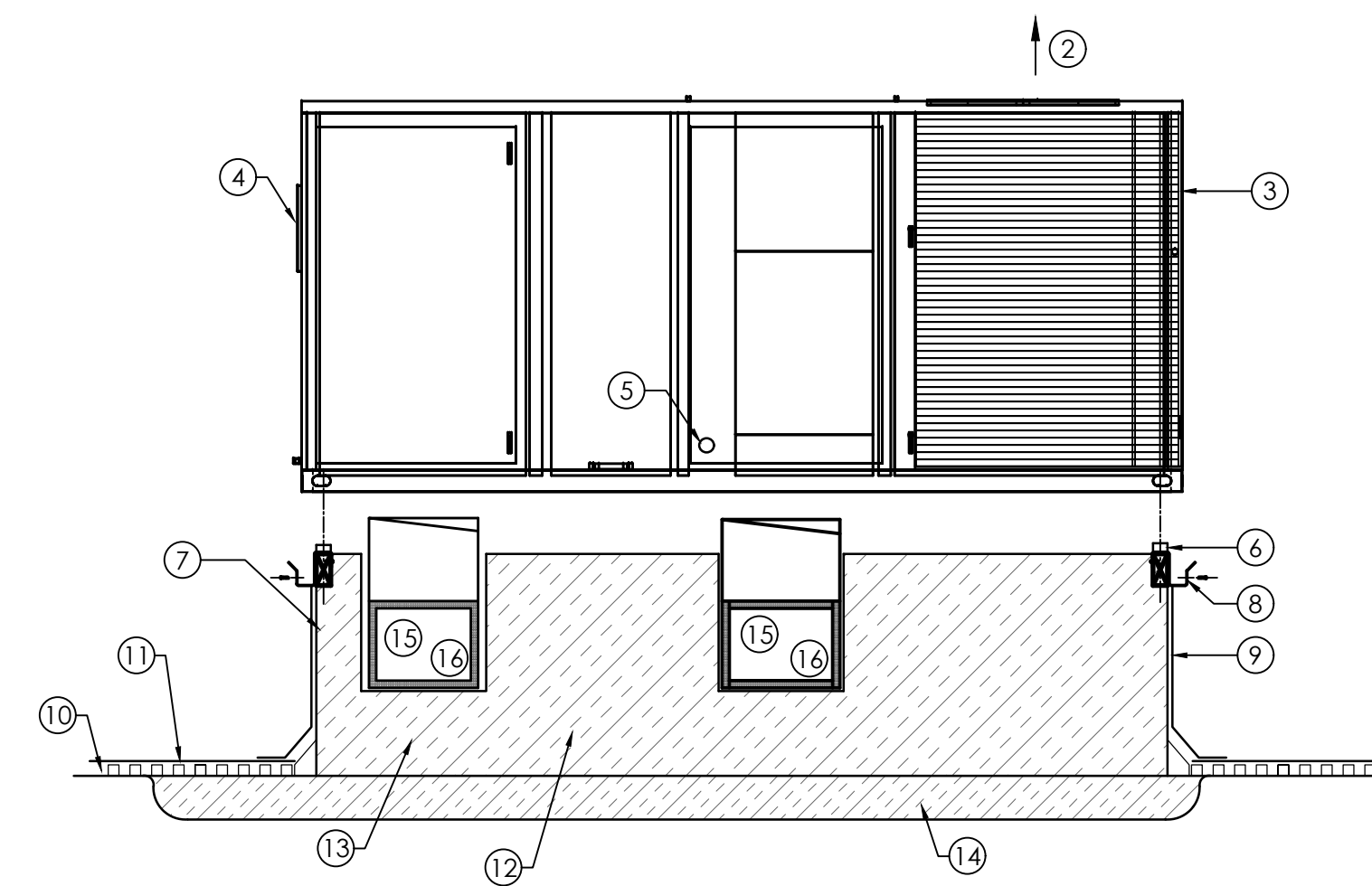
**ROOF CURB TO SUPPORT CONNECTION DETAIL**

NO SCALE



**EQUIPMENT RESTRAINT BRACKET DETAIL**

NO SCALE



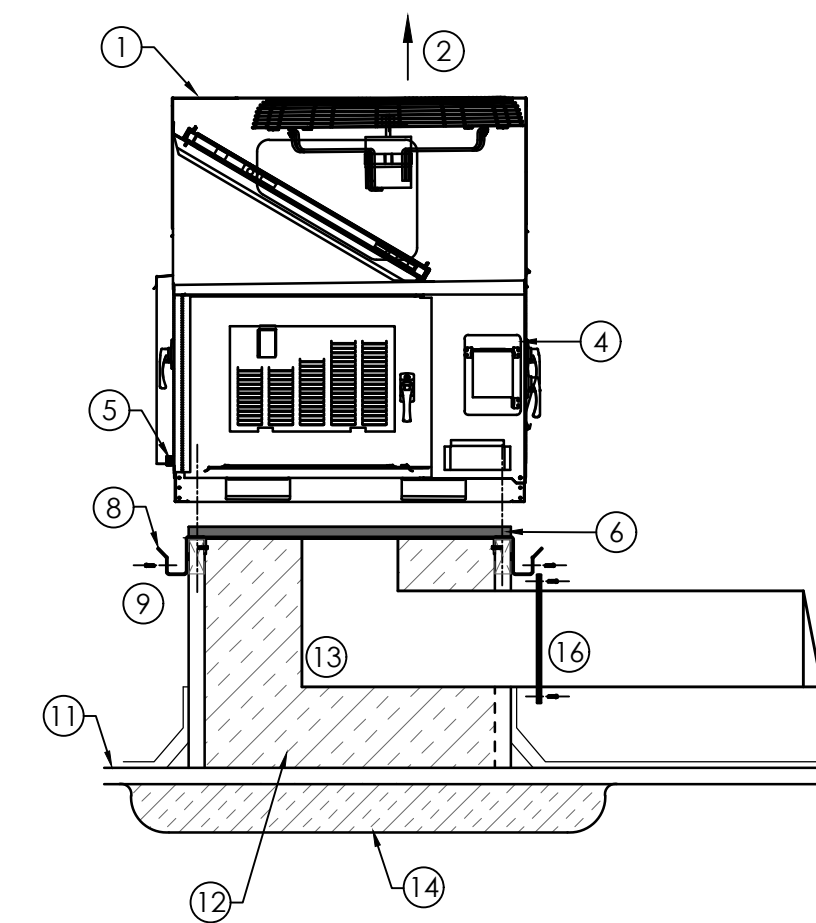
- NOTE:
1. ALL ROOF CURB LOCATIONS SHALL BE COORDINATED WITH STRUCTURAL AND/OR EXISTING CONDITIONS PRIOR TO ROUGH-IN.
  2. ROUTE SCHEDULE 40 PVC CONDENSATE DRAIN PIPING TO NEAREST ROOF DRAIN OR AS SHOWN ON PLUMBING DWGS. PROVIDE DURABLOK OR PHP ROOF SUPPORTS EVERY 4' O.C. CONDENSATE SHALL NOT SPILL ON ROOF.
  3. PROVIDE SMOKE DETECTORS IN RETURN AIR DUCTWORK. UNIT SHALL SHUT DOWN UPON DETECTION OF SMOKE.

**PACKAGED ROOFTOP UNIT WITH HORIZONTAL DUCTWORK DETAIL**

NO SCALE

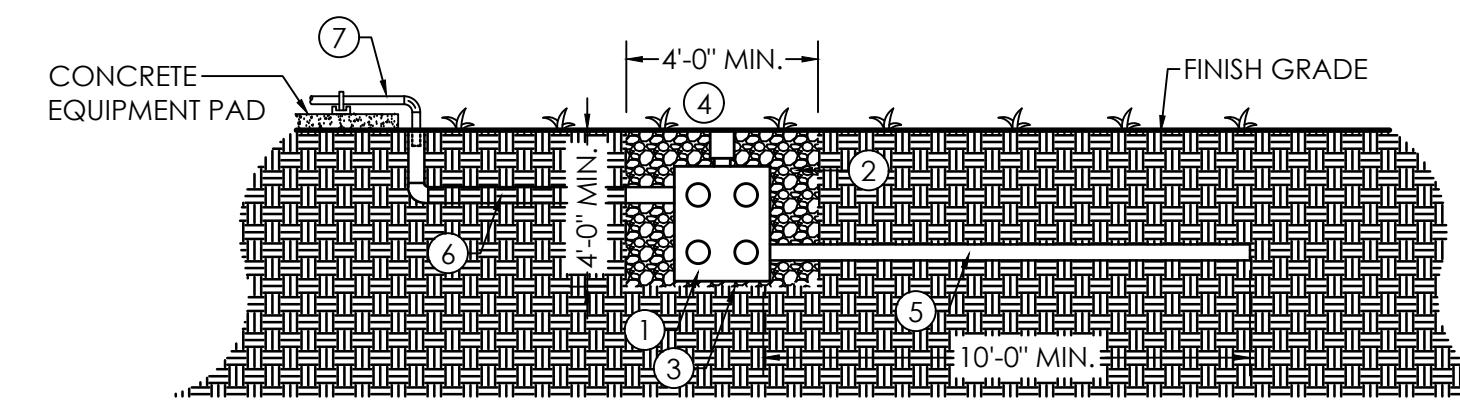
**PACKAGED ROOF TOP HEAT PUMP UNIT DETAIL - LEGEND**

1. PACKAGED ROOF TOP UNIT (DOWNFLOW CONFIGURATION). SEE SCHEDULE AND SPECIFICATIONS
2. HORIZONTAL CONDENSER FAN DISCHARGE. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES
3. HORIZONTAL CONDENSER INTAKE. ON OPPOSITE SIDE OF DISCHARGE. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES.
4. FACTORY INSTALLED DISCONNECT SWITCH.
5. FULL SIZE CONDENSATE DRAIN WITH P-TRAP. RUN TO ROOF DRAIN. PIPING SHALL BE INSTALLED ON DURABLOK SUPPORTS AND SECURED WITH PIPE CLAMPS. SEE DETAIL.
6. CONTINUOUS SELF SEALING GASKET INSTALL AT PERIMETER OF UNIT AND DUCT OPENINGS.
7. MIN. 3/2" TALL INSULATED ROOF TRANSITION CURB WITH WOOD NAILER, RAISED CANT STRIP & 18 GAUGE GALVANIZED STEEL CONSTRUCTION. CURB SHALL BE INSTALLED LEVEL IN BOTH AXES. SECURE TO STRUCTURE PER MANUFACTURER'S INSTRUCTIONS.
8. EQUIPMENT RESTRAINT BRACKET WELDED TO CURB. SECURE UNIT TO BRACKET WITH #12-24 SELF DRILLING SCREWS.
9. GALVANIZED FLASHING AND COUNTER FLASHING UP AND OVER CURB BY ROOFING CONTRACTOR.
10. ROOF INSULATION. SHOWN FOR REFERENCE ONLY.
11. ROOF DECK. SHOWN FOR REFERENCE ONLY.
12. CURB INSULATION FOR NOISE ATTENUATION.
13. SEAL ALL VOIDS AROUND DUCTWORK PENETRATIONS WITH INSULATION.
14. 4" BATT INSULATION ON BOTTOM OF CURB FOR NOISE ATTENUATION. EXTEND 3'-0" PAST CURB PERIMETER.
15. INTERNALLY LINED EXTERIOR RATED DUCTWORK (THERMADUCT OR EQUAL).
16. DUCTWORK OPENINGS IN TRANSITION CURB SHALL BE COORDINATED AND SIZED WITH DUCTWORK PLANS. PROVIDE DUCTMATE FLANGES ON CURB CONNECTION FOR ATTACHMENT OF DUCTWORK.



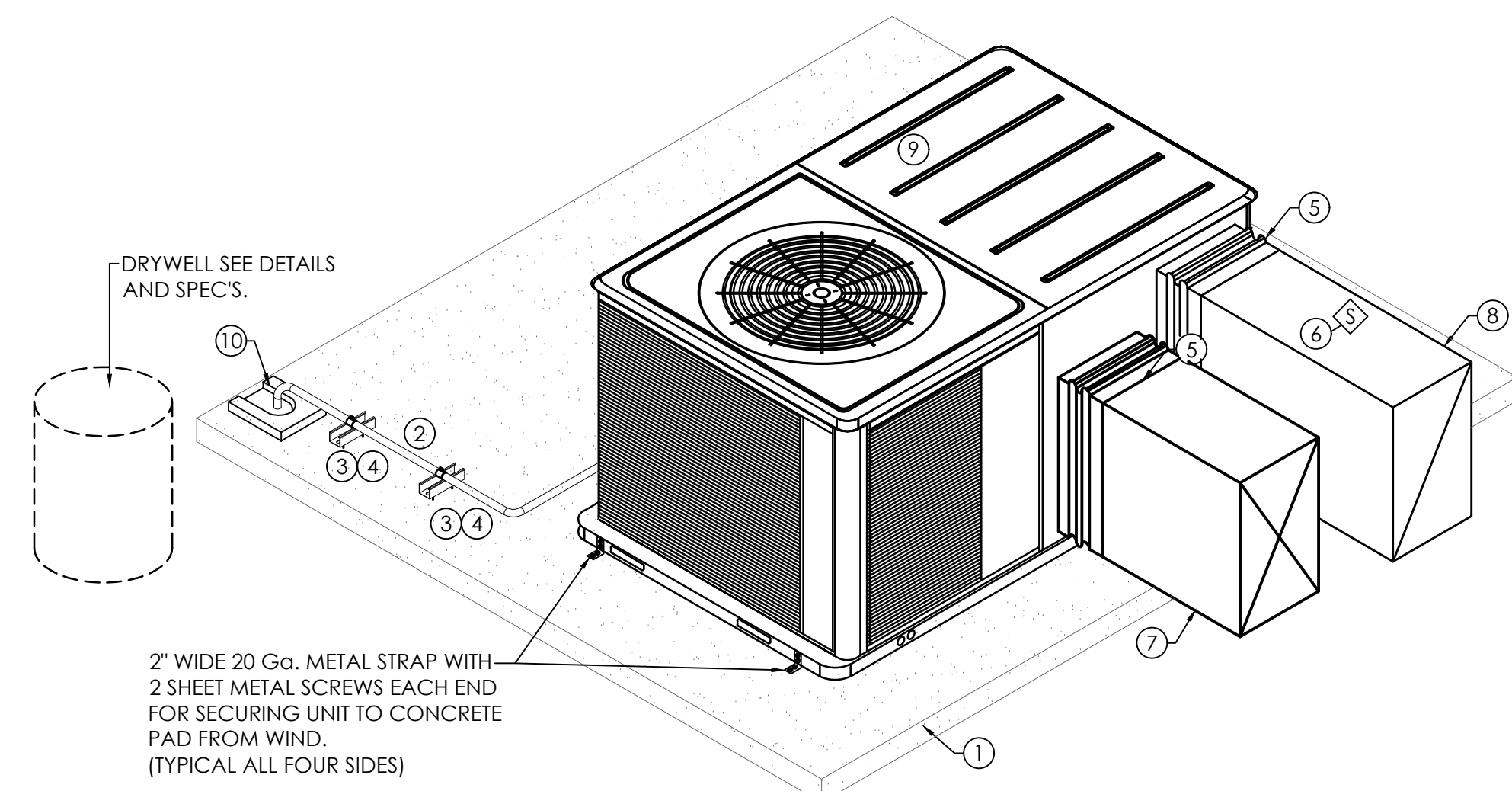
**PRE-MANUFACTURED DRYWELL DETAIL LEGEND**

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.



**PRE-MANUFACTURED DRYWELL DETAIL**

NO SCALE



**TYPICAL GRADE MOUNTED PACKAGED A/C UNIT DETAIL**

NO SCALE

**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 REFRIGERANT 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. INTERNALLY LINE AND COVER WITH ALUMINUM JACKET. PROVIDE WATER TIGHT SEAL.
8. RETURN AIR DUCTWORK. INTERNALLY LINE AND COVER WITH ALUMINUM JACKET. PROVIDE WATER TIGHT SEAL.
9. PACKAGED A/C UNIT WITH GAS HEAT. (SEE SPECIFICATIONS). REUSED EXISTING GAS LINE.
10. PROVIDE SPLASH BLOCK FOR CONDENSATE. NO CONDENSATE SHALL SPILL ON WALKWAYS. PROTECT PIPING FROM LANDSCAPING EQUIPMENT.

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SHEET TITLE : MECHANICAL DETAILS

MCKEE JOB # : 24-169

DRAWN BY : CAK

DATE : 9.18.24

REVISED DATE :

REVISED DATE :

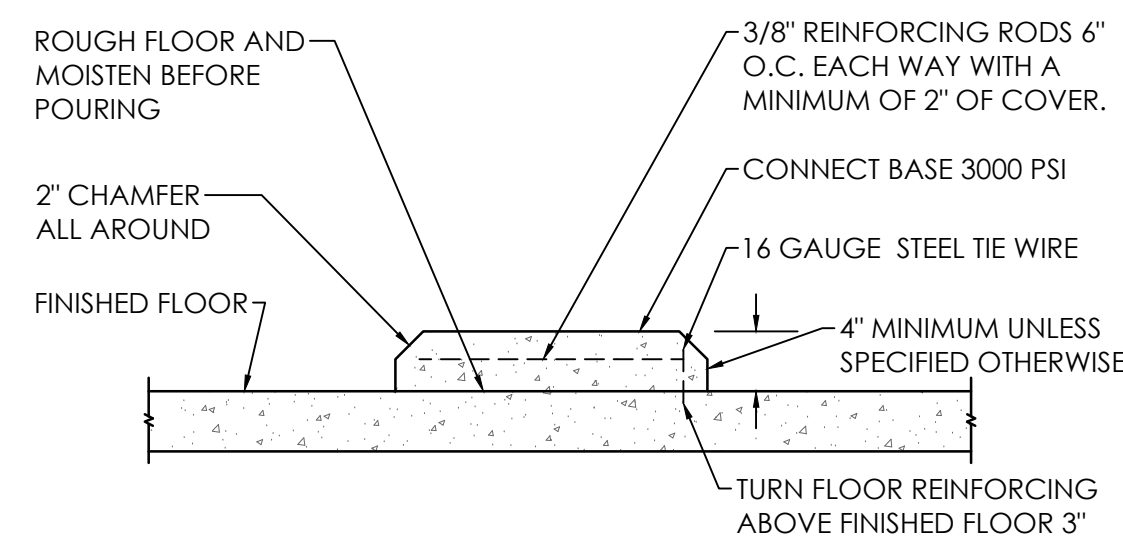
REVISED DATE :

SHEET NO. : **M3.4**

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ENGINEERING LLC

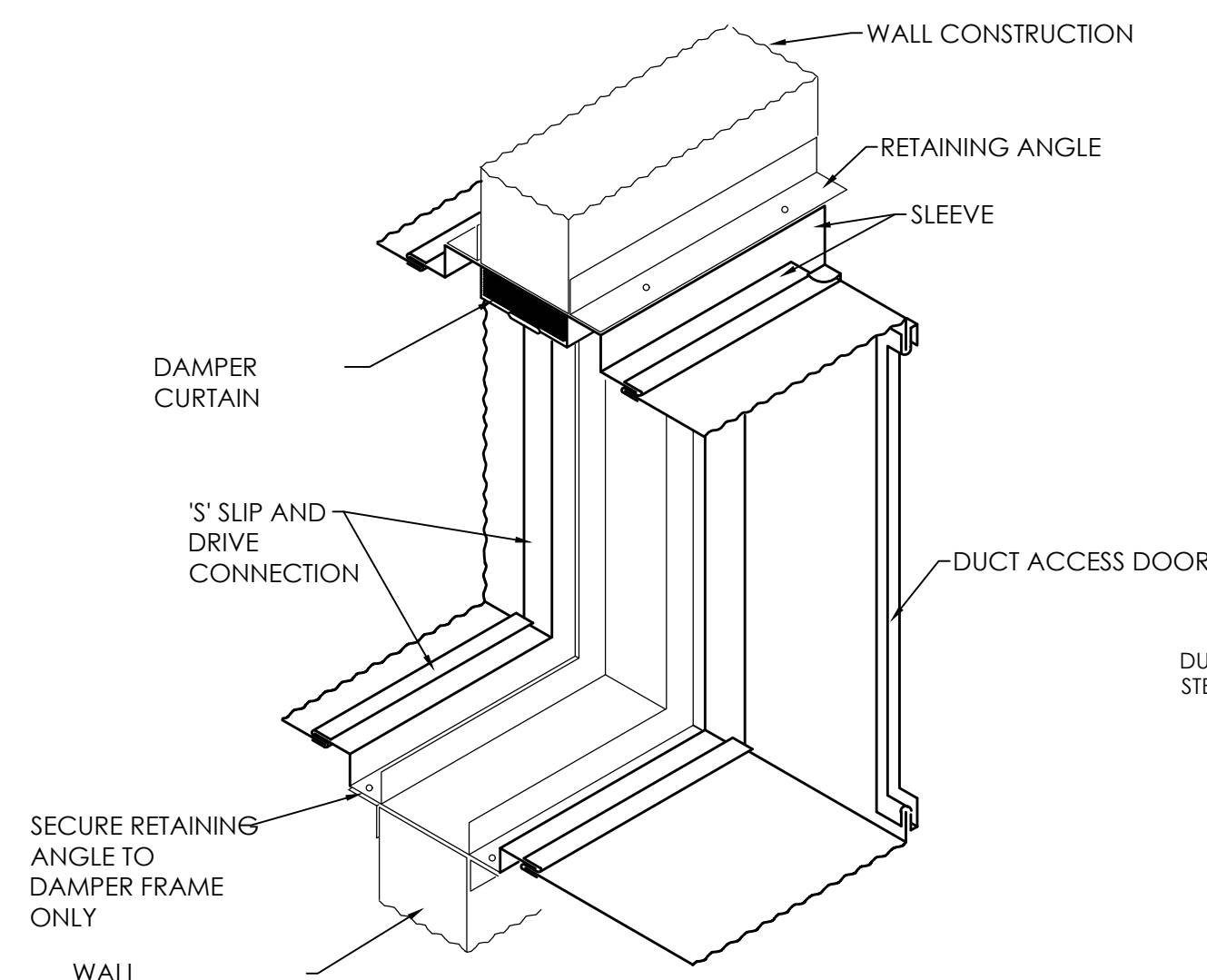
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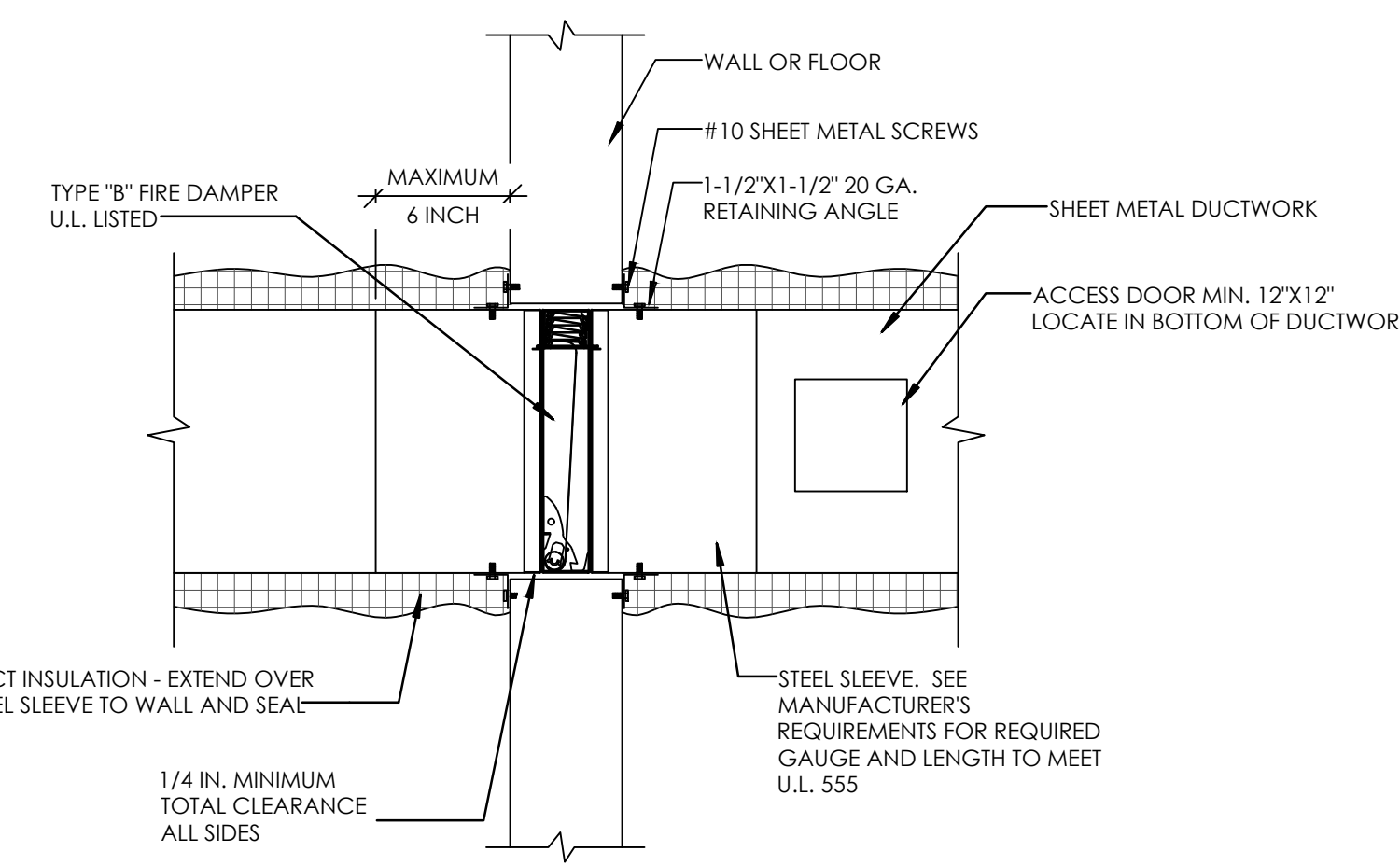
**FLOOR MOUNTED EQUIPMENT CONCRETE BASE DETAIL**

NO SCALE (PROVIDE CONCRETE BASE FOR ALL FLOOR MOUNTED EQUIPMENT)

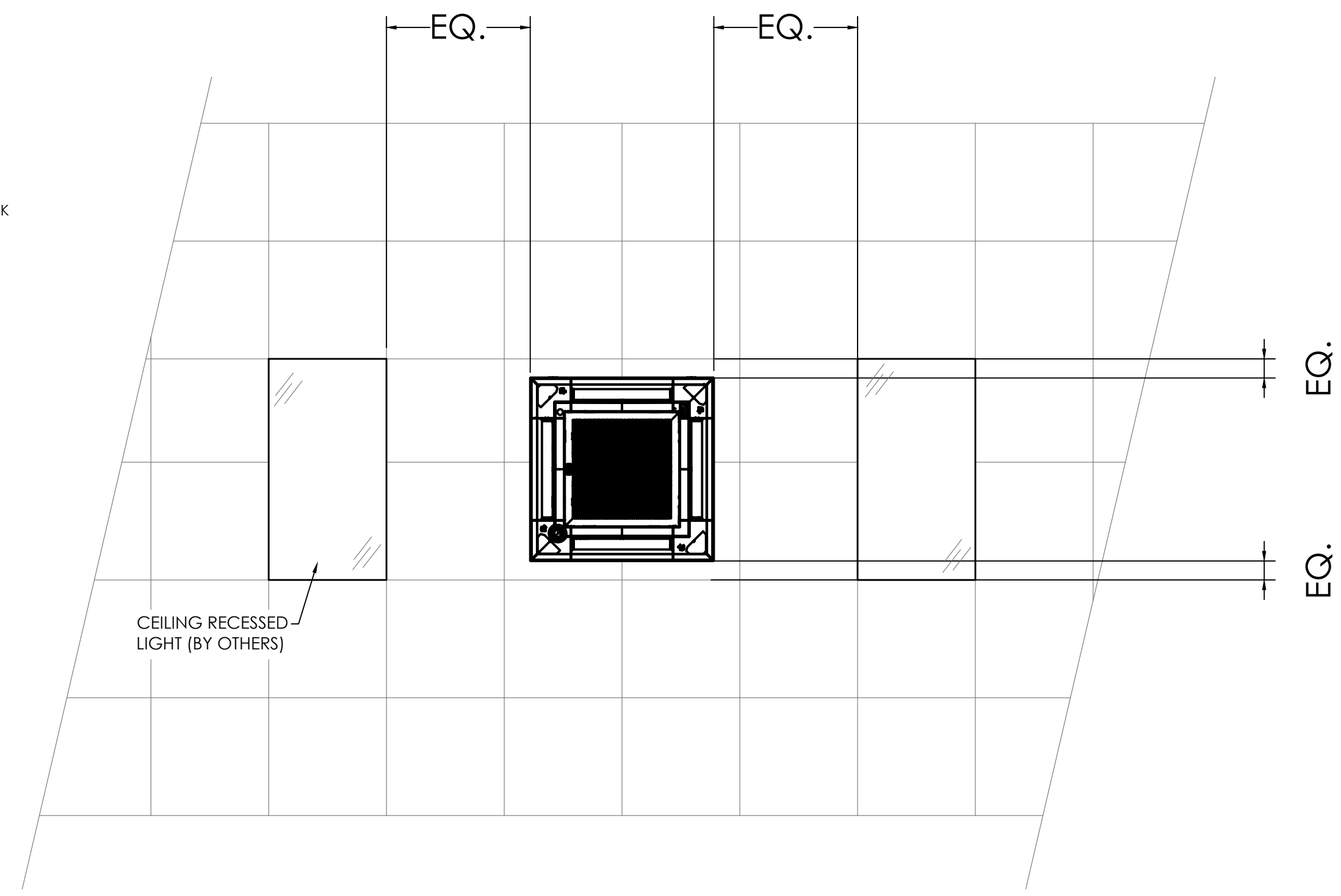


**TYPICAL FIRE DAMPER DETAIL**

NO SCALE



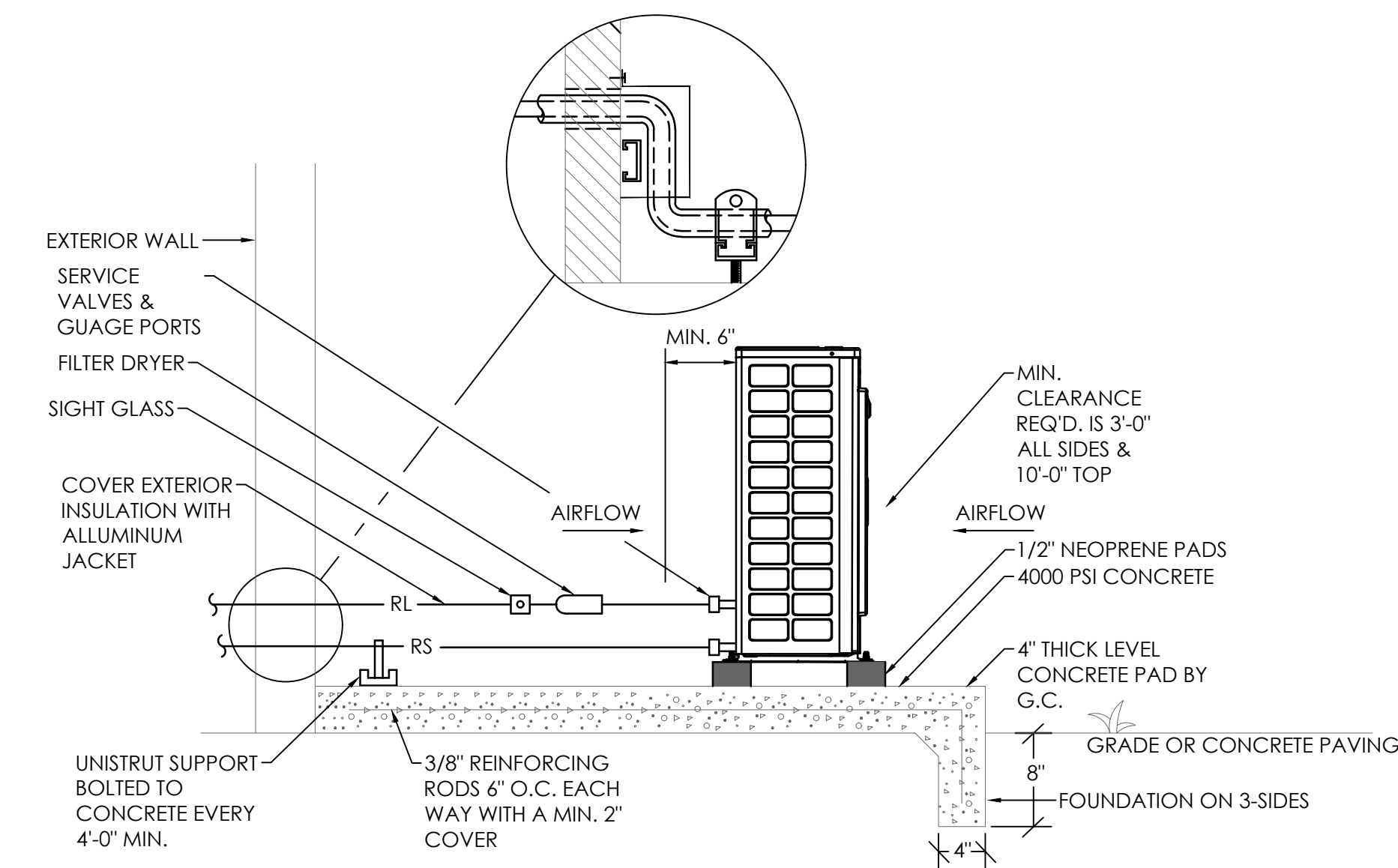
**DYNAMIC FIRE DAMPER VERTICAL OR HORIZONTAL INSTALLATION**



**TYPICAL CEILING PLAN LAY-OUT**

NO SCALE

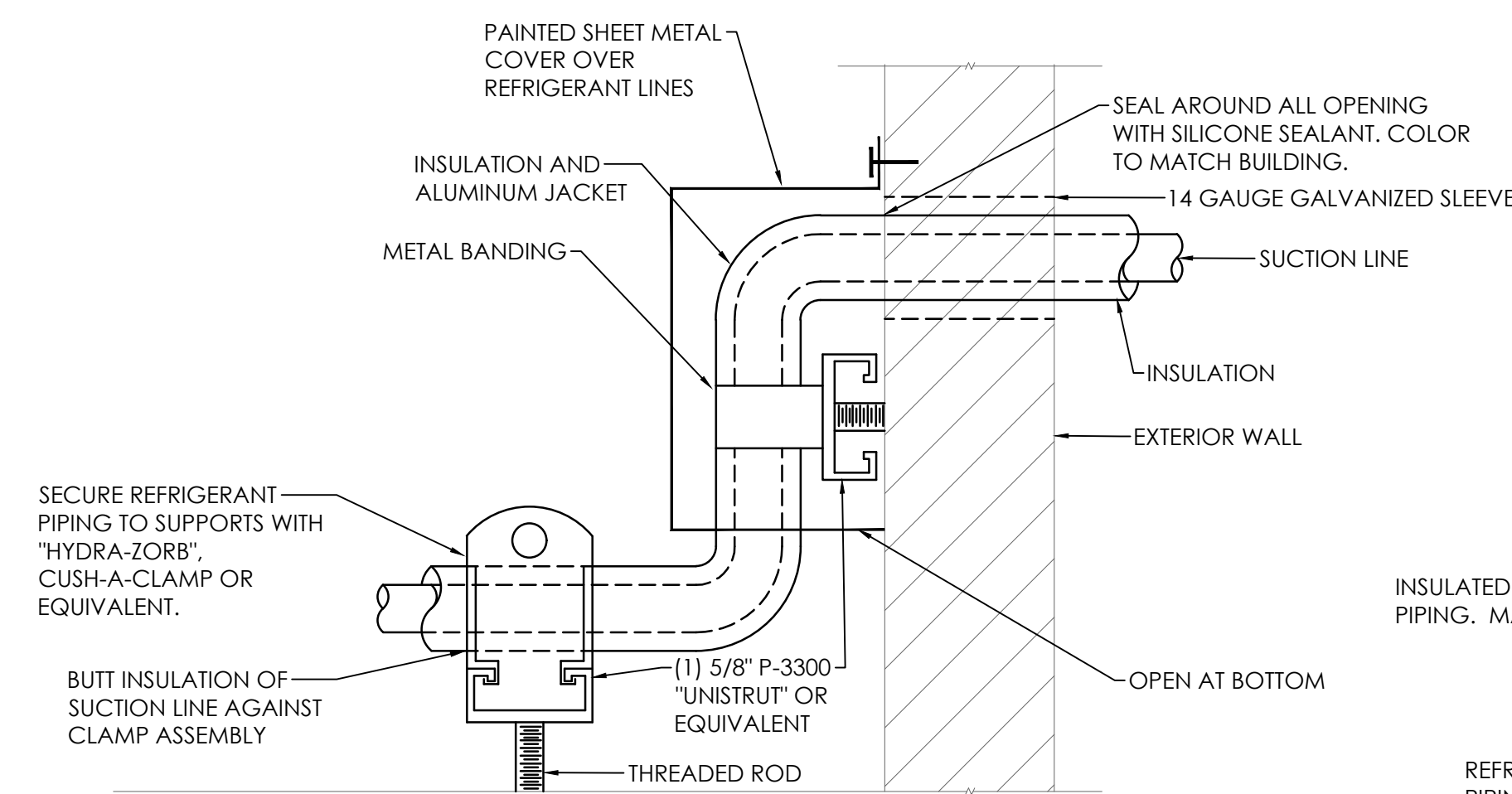
NOTE: ALL CASSETTES SHALL BE CENTERED IN CEILING TILE. IF NOT, REMOVE AND REINSTALL.



NOTE:  
1. VERTICAL REFRIGERANT PIPING SHALL BE CONCEALED IN WALL CAVITY. PIPING EXPOSED OR COVERED ON THE EXTERIOR WALL **WILL NOT** BE ACCEPTED.

**GRADE MOUNTED CONDENSING UNIT DETAIL**

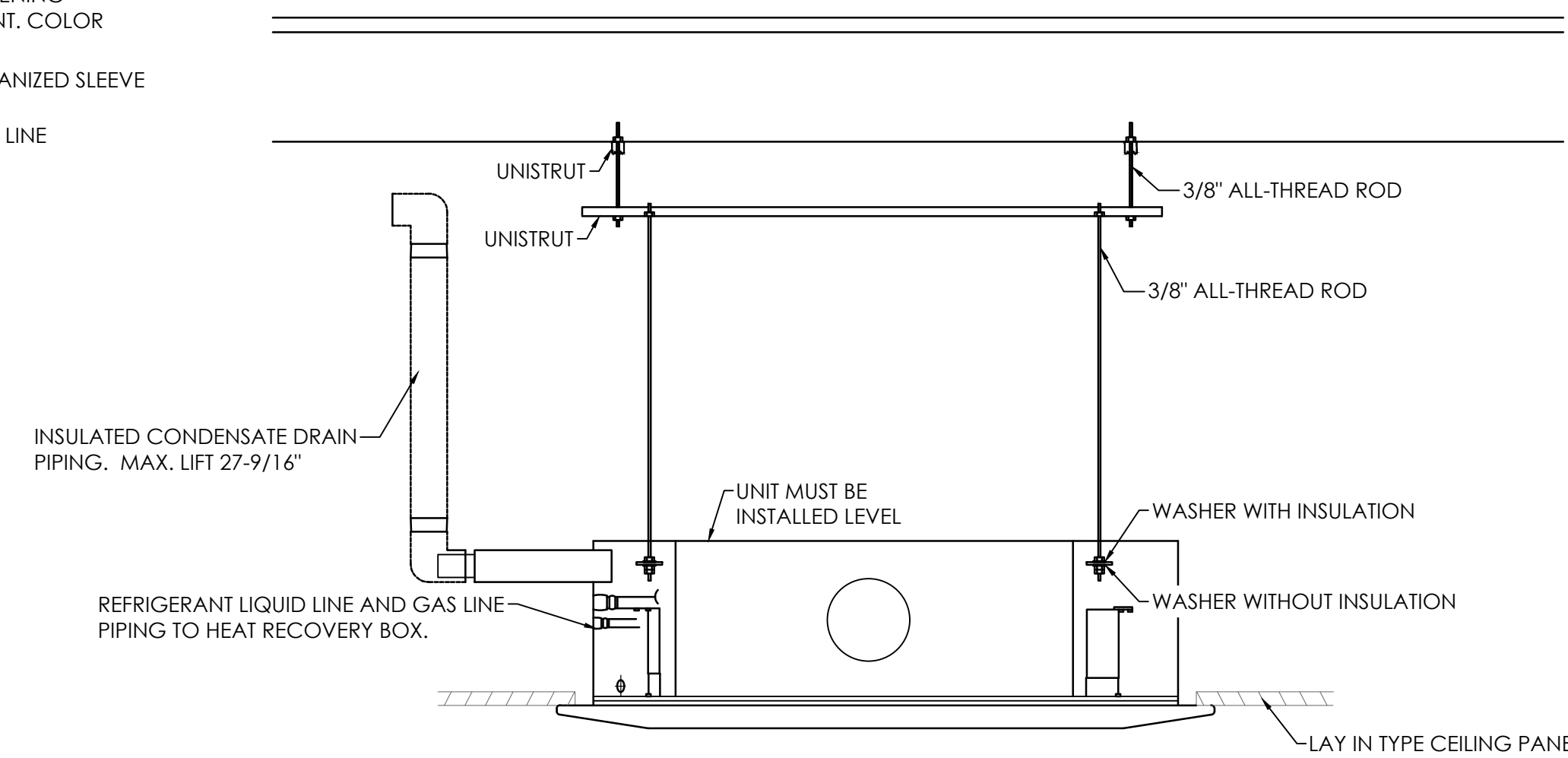
NO SCALE TYP. FOR DUCTLESS SPLIT SYSTEMS



NOTE: LIQUID LINE SIMILAR.

**REFRIGERANT PIPE ON GRADE SUPPORT AT WALL DETAIL**

NO SCALE

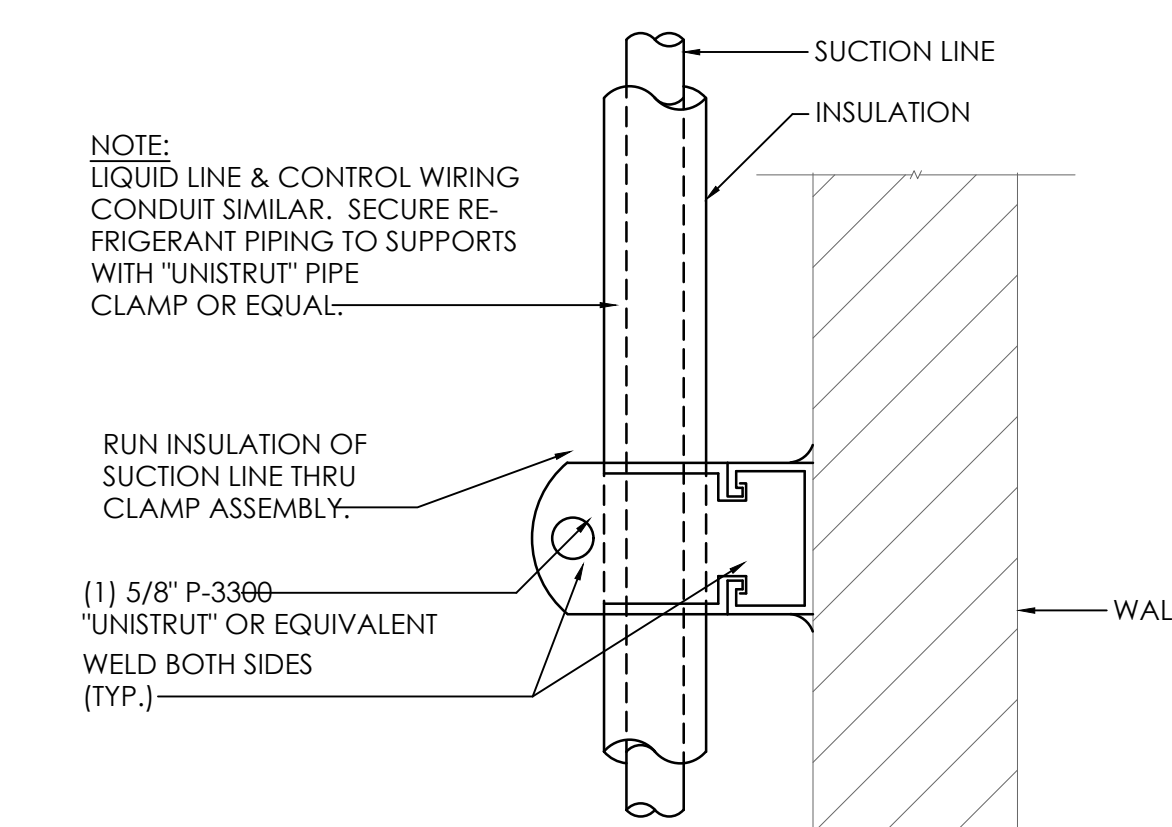


NOTE:

1. PROVIDE UNI-STRUT AS SHOWN FOR ADJUSTMENT IN ALL DIRECTION.
2. POWER CABLE FROM OUTDOOR UNIT TO INDOOR UNIT SHALL BE SOUTH-WIRE EZ-IN MINI-SPLIT CABLE. WIRE CONDUCTORS SHALL BE IN ALUMINUM CONDUIT WITH FLAME RETARDANT JACKET.

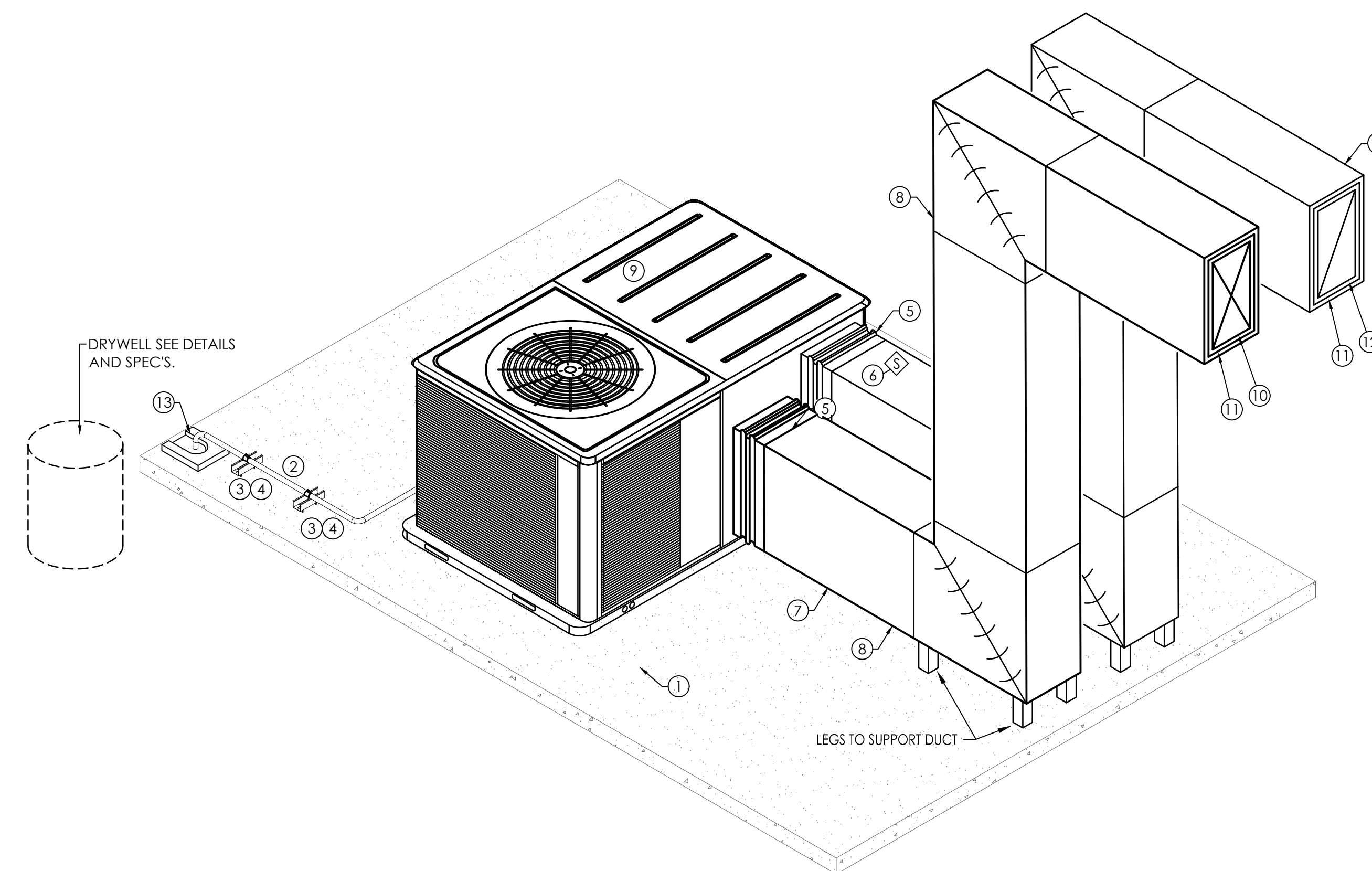
**CEILING RECESSED A/C MOUNTING DETAIL**

NO SCALE TYP. FOR DUCTLESS SPLIT SYSTEMS



**REFRIGERANT PIPE SUPPORT AT WALL DETAIL**

NO SCALE



**GRADE MOUNTED PACKAGED A/C UNIT DETAIL**

NO SCALE TYP. PAC-2

NOTE LEGEND: (THIS DETAIL ONLY)

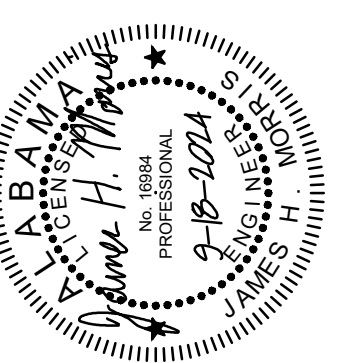
1. 4" LEVEL CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLING EQUIPMENT.
2. PROVIDE 1" COPPER CONDENSATE PIPE. CONDENSATE IS TO SPILL ON SPLASH BLOCK. SEE DETAIL FOR SPLASH BLOCK AND DRYWELL PIPING.
3. UNISTRUT PIPE SUPPORT. SUPPORT PIPING EVERY 3'-0" MAX. SEE DETAIL.
4. SECURE REFRIGERANT 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. INTERNALLY LINE AND COVER WITH 1" FIBERBOARD WITH ALUMINUM JACKET (ALUMAGUARD LITE OR EQUIVALENT) ON OUTSIDE. PROVIDE WATER TIGHT SEAL.
8. EXTERIOR AIR DUCTWORK. INTERNALLY LINE AND COVERED WITH 2" RIGID FIBERBOARD WITH ALUMINUM JACKET (ALUMAGUARD OR EQUIVALENT) ON OUTSIDE. PROVIDE WATER TIGHT SEAL.
9. PACKAGED HEAT PUMP UNIT. (SEE SPECIFICATIONS)
10. 1" CLOSED CELL LINER
11. RIGID 2" FIBERGLASS BOARD
12. 1" FIBERGLASS LINER
13. PROVIDE SPLASH BLOCK FOR CONDENSATE. NO CONDENSATE SHALL SPILL ON WALKWAYS. PROTECT PIPING FROM LANDSCAPING EQUIPMENT.

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MCKEE and ASSOCIATES  
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SHEET TITLE : MECHANICAL DETAILS

MCKEE JOB # : 24-169

DRAWN BY : CAK

DATE : 9.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

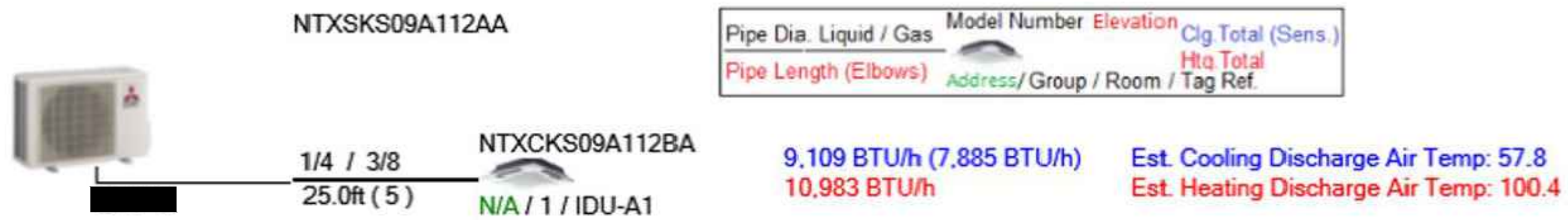
SHEET NO. :

M3.5

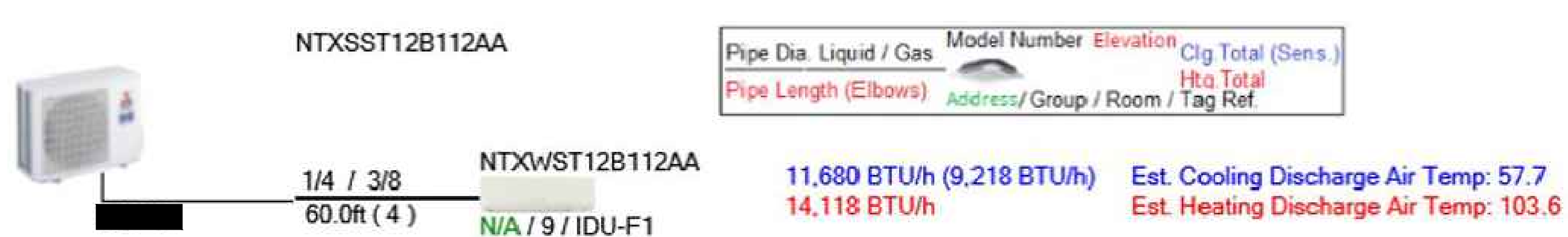
MORRIS DAVIS  
ENGINEERING LLC

903 SOUTH PERRY STREET  
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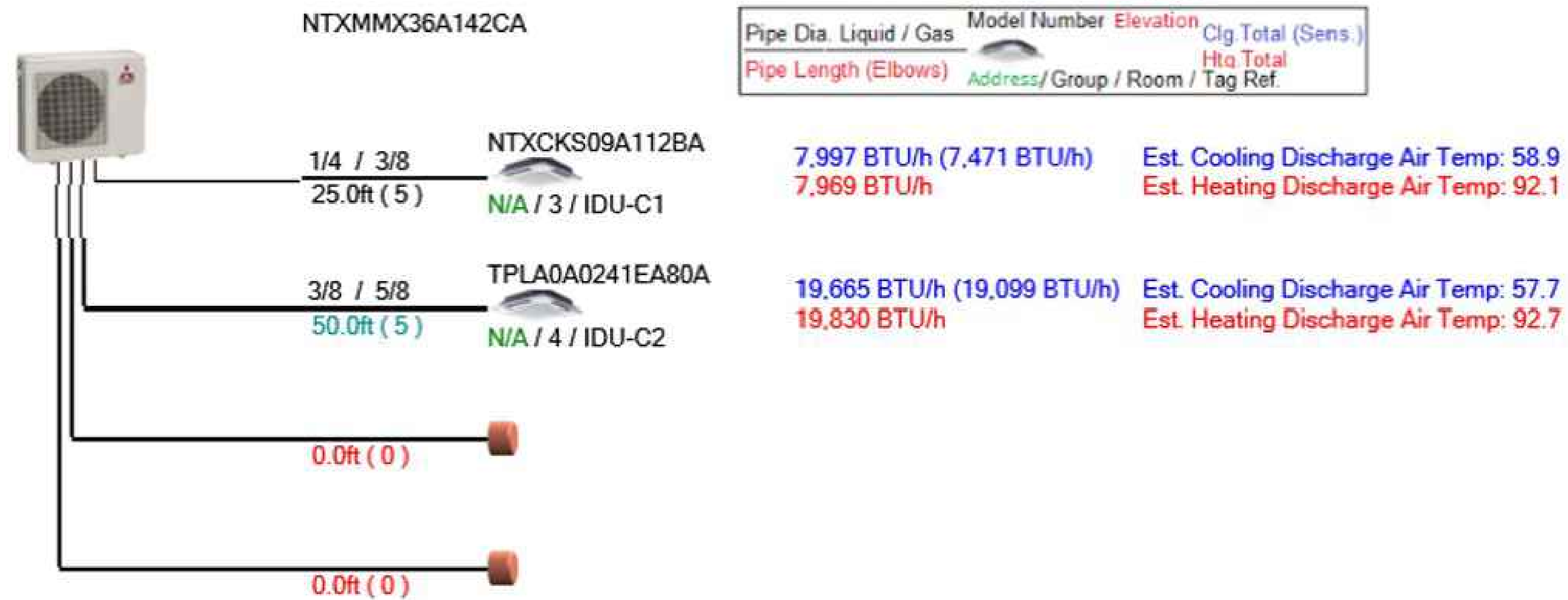




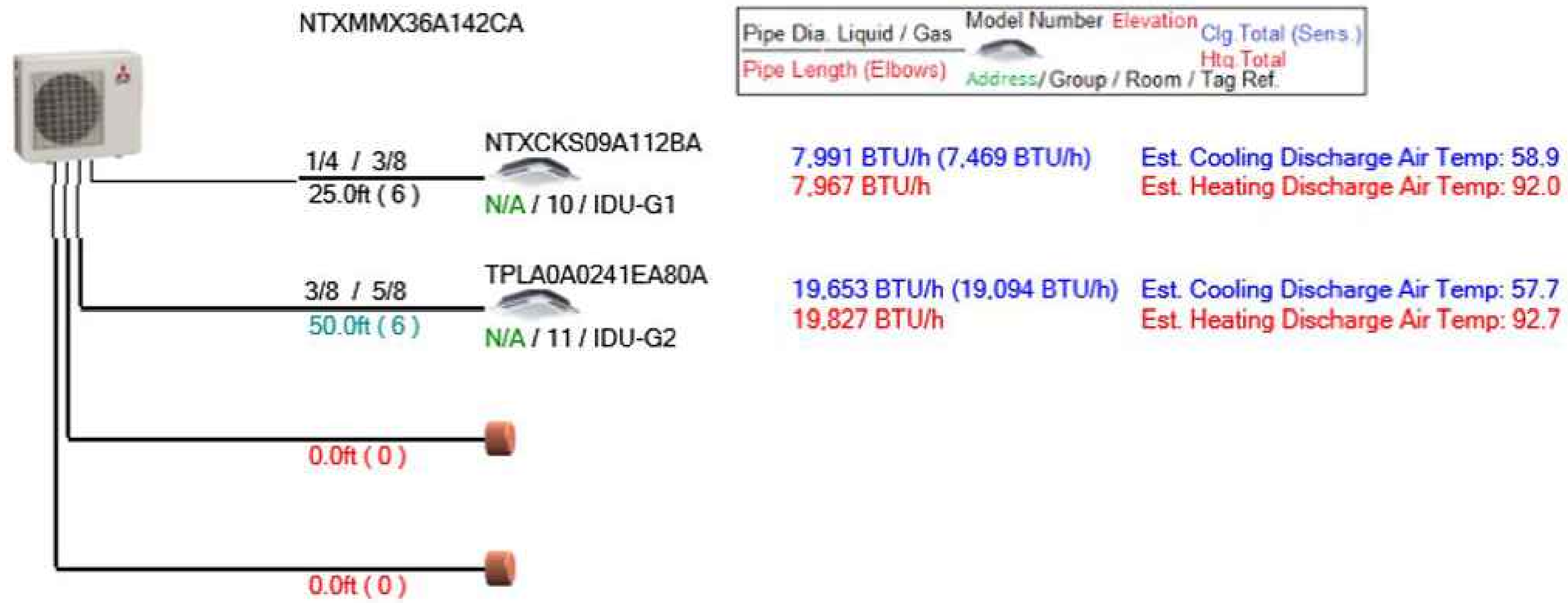
PIPING DIAGRAM - SYSTEM (DHP-1)  
NO SCALE



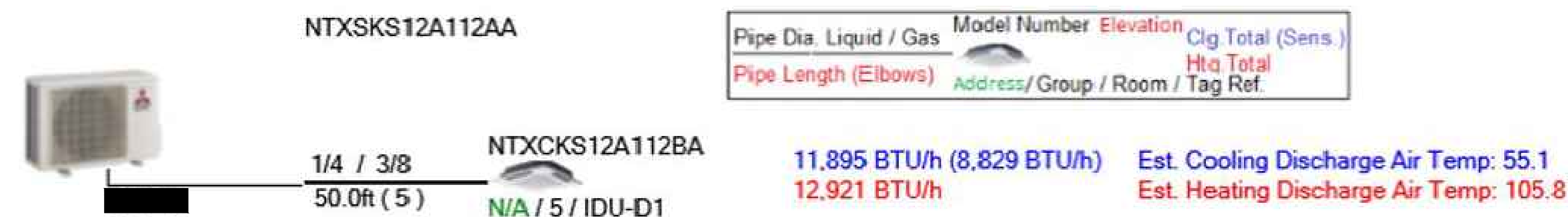
PIPING DIAGRAM - SYSTEM (DHP-5)  
NO SCALE



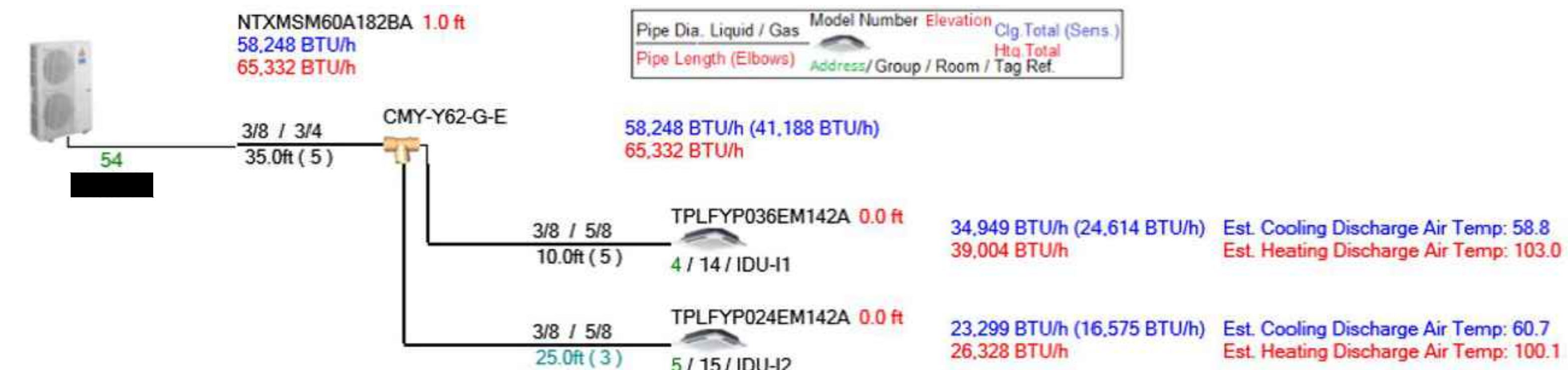
PIPING DIAGRAM - SYSTEM (DHP-2)  
NO SCALE



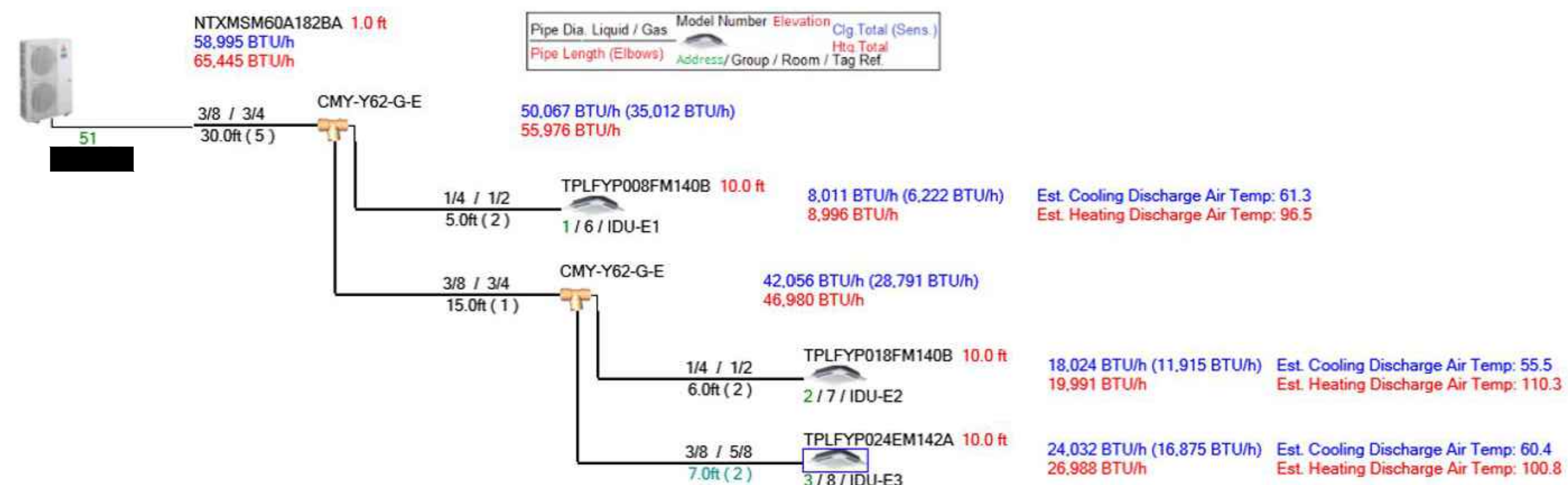
PIPING DIAGRAM - SYSTEM (DHP-6) & (DHP-7)  
NO SCALE



PIPING DIAGRAM - SYSTEM (DHP-3)  
NO SCALE



PIPING DIAGRAM - SYSTEM (DHP-8)  
NO SCALE



PIPING DIAGRAM - SYSTEM (DHP-4)  
NO SCALE



PIPING DIAGRAM - SYSTEM (DHP-9)  
NO SCALE

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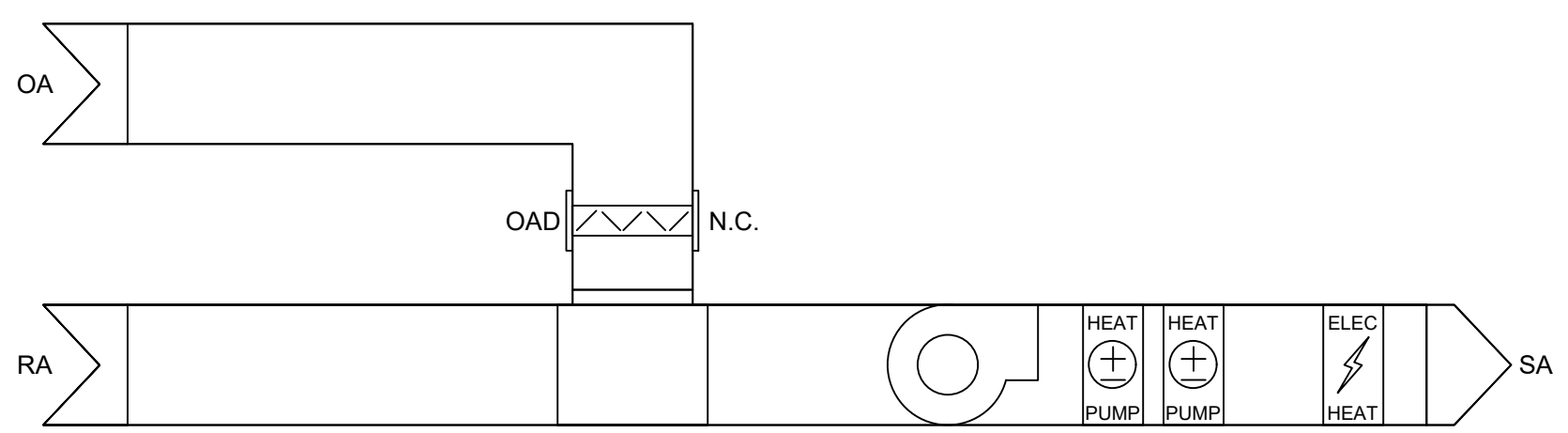
SHEET TITLE : MECHANICAL PIPING DIAGRAMS  
 MCKEE JOB # : 24-169  
 DRAWN BY : CAK  
 DATE : 9.18.24  
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**MORRIS DAVIS**  
**ENGINEERING LLC**  
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SHEET NO. : **M3.6**

- N:\2024 Jobs\24-088 Appalachian High School Gym\Drawings\Mech\24-088\_M3.dwg  
 - Wednesday, September 18, 2024 9:04:16 AM





**HP - TSTAT FLOW DIAGRAM**

**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, AND A PROGRAMMABLE, STANDALONE, TOUCH-SCREEN THERMOSTAT WITH BUILT-IN HUMIDITY.

**LOCAL SCHEDULE:**

- A LOCAL SCHEDULE (7 DAYS, 2 OR 4 EVENTS) INTERNAL TO THE CONTROLLER IS USED TO TRIGGER THE DIFFERENT OCCUPANCY LEVELS OF THE CONTROLLER. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PROGRAMMING EACH THERMOSTATS OCCUPIED AND UNOCCUPIED PERIOD(S).

**OCCUPIED MODE:**

- HE OCCUPIED COOLING AND HEATING SETPOINTS ARE USED (COOLING: 75 °F; HEATING: 68 °F). THE OCCUPIED SPACE TEMPERATURES SETPOINTS FOR THE UN ITS WILL BE ADJUSTABLE (+/-3°F) AT THE LOCAL THERMOSTAT.

**UNOCCUPIED MODE:**

- DURING UNOCCUPIED PERIODS, THE UNOCCUPIED HEATING & COOLING SETPOINTS ARE USED. (COOLING: 60 °F; HEATING: 85 °F).
- THE UNOCCUPIED SPACE TEMPERATURES SETPOINTS FOR THE UNITS WILL BE ADJUSTABLE AT THE LOCAL THERMOSTAT.

**LOCAL OVERRIDE:**

- THE CONTROLLER WILL REVERT BACK TO THE OCCUPIED MODE AS SPECIFIED BY A CONFIGURATION TIMER WHEN A LOCAL OVERRIDE 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 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.

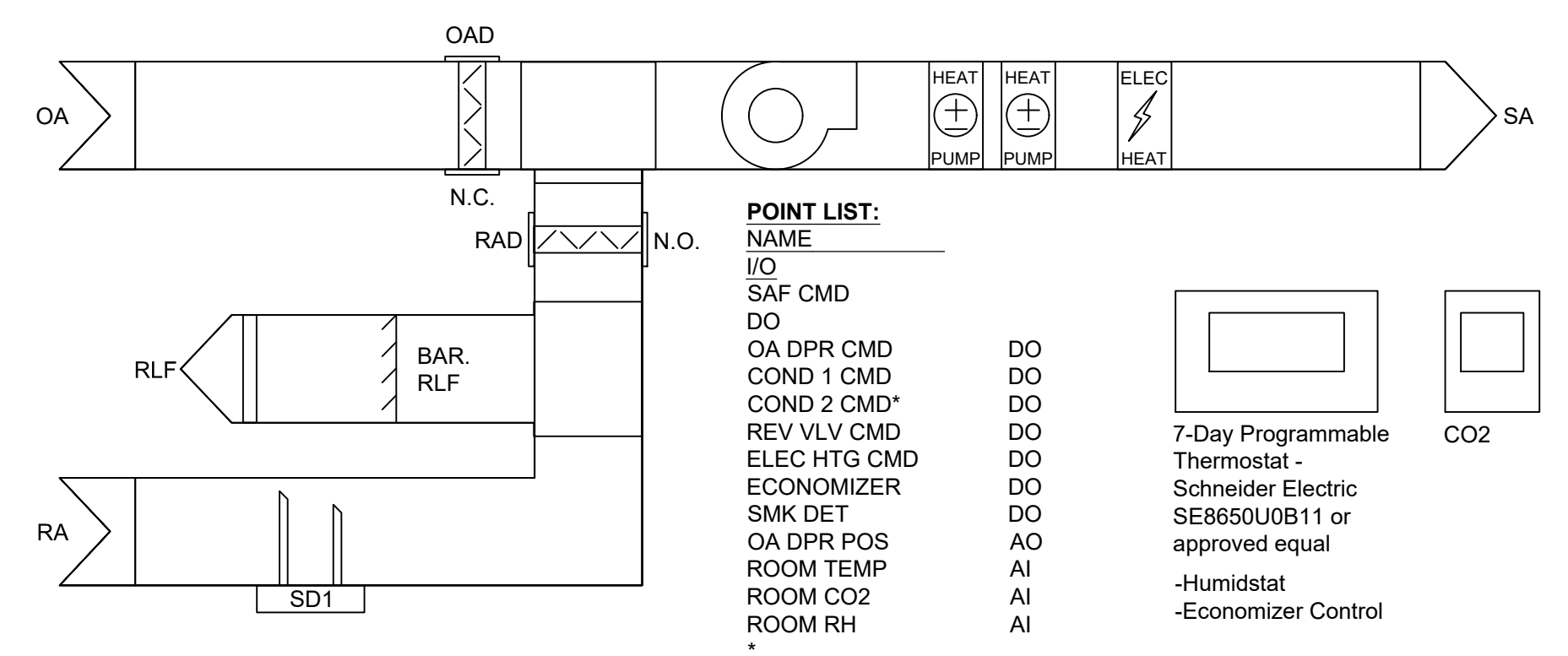
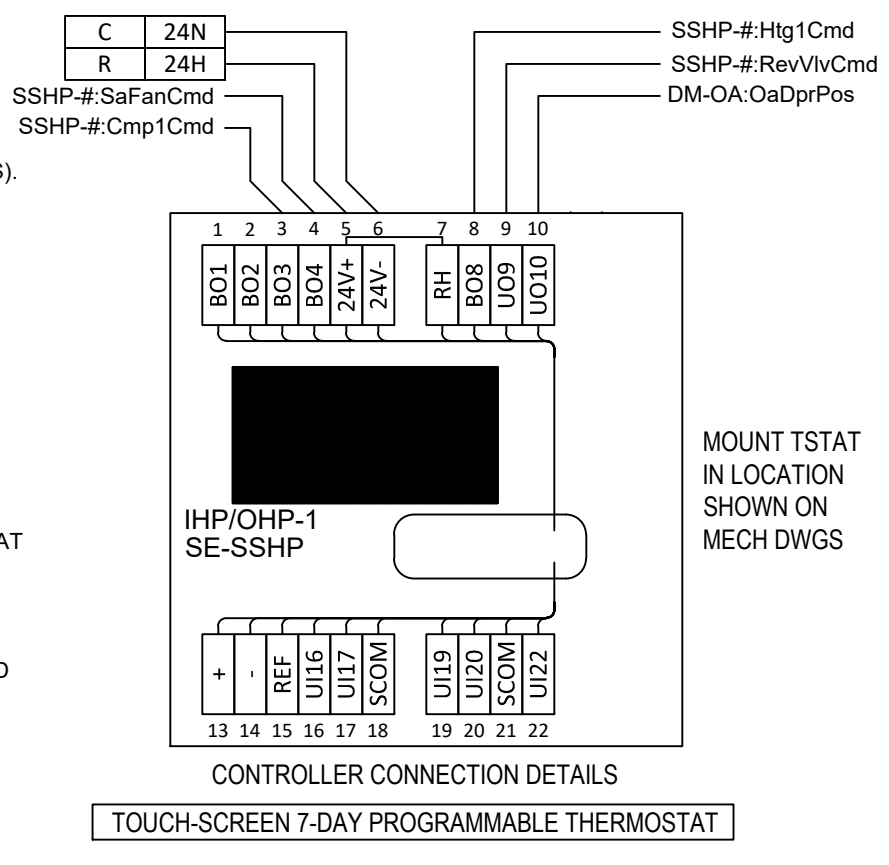
**OUTSIDE AIR DAMPER**

- 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 AIR DAMPER SHALL CLOSE.

**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
ROOM TEMP	AI

\* SEE SCHED FOR UNITS WITH 2 STAGES



**PAC AND RTU - TSTAT, CO2, HUMIDISTAT**

**SEQUENCE OF OPERATION - SINGLE-ZONE CONSTANT-VOLUME PACKAGED HEAT PUMP WITH CO2**

EACH PACKAGED 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, ECONOMIZER AND A PROGRAMMABLE STANDALONE TOUCH-SCREEN THERMOSTAT WITH BUILT-IN HUMIDITY, AND CO2 SENSORS.

**LOCAL SCHEDULE:**

- A LOCAL SCHEDULE (7 DAYS, 2 OR 4 EVENTS) INTERNAL TO THE CONTROLLER IS USED TO TRIGGER THE DIFFERENT OCCUPANCY LEVELS OF THE CONTROLLER. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PROGRAMMING EACH THERMOSTATS OCCUPIED AND UNOCCUPIED PERIOD(S).

**SMOKE DETECTOR:**

- 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. PROVIDE FOR UNIT 2000 CFM OR LARGER.

**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: 65 °F; HEATING: 85 °F).
- THE UNOCCUPIED SPACE TEMPERATURES SET-POINTS FOR THE UNITS WILL BE ADJUSTABLE AT THE LOCAL THERMOSTAT.

**LOCAL OVERRIDE:**

- THE CONTROLLER WILL REVERT BACK TO THE OCCUPIED MODE AS SPECIFIED BY A CONFIGURATION TIMER WHEN A LOCAL OVERRIDE 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 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 UN-OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL CLOSE.

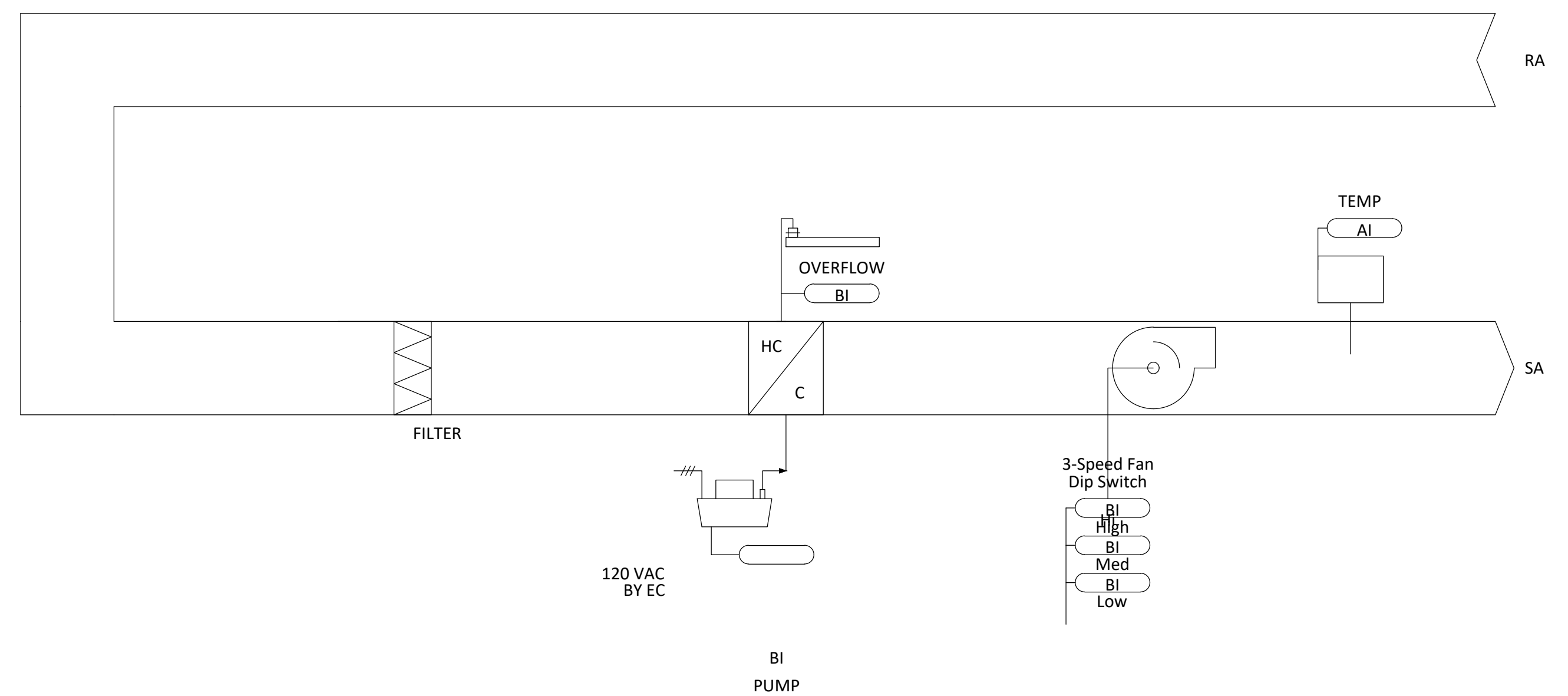
**CO2 CONTROL**

- UPON A RISE IN SPACE CO2 LEVELS ABOVE SET-POINT THE OUTSIDE AIR DAMPER SHALL BE COMMANDED FULLY OPEN
- OUTSIDE AIR DAMPER SHALL REVERT BACK TO MINIMUM POSITION AFTER SPACE CO2 LEVELS HAVE BEEN AT SAFE LEVELS FOR 5-MIN.

**ECONOMIZER CONTROL**

- IF THE OUTSIDE AIR TEMPERATURE IS BELOW 60 °F AND THE UNIT IS IN COOLING MODE, THE COMPRESSOR WILL BE LOCKED OUT AND THE OUTSIDE AIR DAMPER SHALL FULLY OPEN

**VRF IDU**



**VARIABLE REFRIGERANT FLOW (VRF) FLOW DIAGRAM**

NOTE: UPON SHUTDOWN OR DURING ALL UNOCCUPIED PERIODS, NEEDLEPOINT BIPOLAR IONIZATION SHALL SHUT DOWN. PHENOMENAL AIRE, SERIES C-FLEX OR APPROVED EQUAL.

**VARIABLE REFRIGERANT FLOW (VRF) SEQUENCE OF OPERATION**

- DUCTLESS MINI-SPLIT UNIT SHALL BE CONTROLLED BY A WALL MOUNTED REMOTE CONTROLLER PROGRAMMABLE THERMOSTAT. THE PROGRAMMABLE THERMOSTAT SHALL CYCLE ON THE OUTDOOR UNIT TO MAINTAIN COOLING (72F ADJ.) AND HEATING (68F ADJ.) SETPOINTS.
  - HEAT. WHEN THE TERMINAL UNIT OPERATION MODE IS THE HEAT STAT, HOT GAS REFRIGERANT IS PROVIDED TO THE TERMINAL UNIT.
  - COOL. WHEN THE TERMINAL UNIT OPERATION MODE IS THE COOL STAT, LIQUID REFRIGERANT IS PROVIDED TO THE TERMINAL UNIT.
- THE CONTROLLER SHALL BE ABLE TO SET FAN SPEED (AUTOMATIC OR MANUAL CONTROL). TEMPERATURE AND SENSCE OCCUPANCY. DURING WINTER THE UNITS SHALL SET THEIR TEMPERATURE BACK 3F BELOW SETPOINT AT NIGHT, AND DURING THE SUMMER THE UNITS SHALL SET THEIR TEMPERATURE 3F ABOVE SETPOINT. ANY DUCTLESS UNITS SERVING IT ROOMS OR ELECTRICAL ROOMS SHALL NOT DO TEMPERATURE SETBACK AT NIGHT.

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA



SHEET TITLE : MECHANICAL CONTROL DIAGRAMS

MCKEE JOB # : 24-169

DRAWN BY : CAK

DATE : 9.18.24

REVISED DATE :

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**MORRIS DAVIS ENGINEERING LLC**  
 903 SOUTH PERRY STREET  
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 www.morriseng.com PROJECT NO: 24-088

SHEET NO. : **M3.7**

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



# ELECTRICAL LEGEND

## CEILING OUTLETS

- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE "EMERGENCY BATTERY POWER"
- JUNCTION BOX
- EXIT LIGHT
- EXHAUST FAN
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.

## LIGHTING CONTROLS

- CEILING MOUNTED OCCUPANCY SENSOR
- POWER PACK FOR OCCUPANCY SENSOR
- ROOM CONTROLLER - 1 ZONE DIMMING
- ROOM CONTROLLER - 2 ZONE DIMMING
- ROOM CONTROLLER - ON/OFF NO DIMMING
- WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING
- WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING
- LOW VOLTAGE SWITCH, 2-BUTTON
- LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

\*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

## WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE.

- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY WALL PACK
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- SINGLE RECEPTACLE - 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- 250V RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-30R; HUBBELL SERIES 9350
- JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- PHOTOCCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.
- 250V RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 14-30R; HUBBELL SERIES 9350

## BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; 3 #12, 1 #12 GROUND - 3/4" C; 4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; 3 #10, 1 #10 GROUND - 3/4" C; 4 #10, 1 #10 GROUND - 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; 3 #8, 1 #10 GROUND - 1" C; 4 #8, 1 #10 GROUND - 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- EMPTY CONDUIT WITH PULLWIRE, RUN CONCEALED IN CEILING OR WALLS

## COMMUNICATION SYSTEMS

- WALL COMMUNICATIONS OUTLET - SEE DETAILS ON SHEET E6.2
- WIRELESS ACCESS POINT - SEE DETAILS ON SHEET E6.2
- SECURITY CAMERA - SEE DETAILS ON SHEET E6.2
- VAPE SENSOR CEILING OUTLET - SEE DETAILS ON SHEET E6.2
- COMMUNICATIONS FLOOR RACK SEE DETAIL E6.3

## PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; "S" INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- TRANSFORMER
- GROUNDING ELECTRODE CONNECTION

## MISCELLANEOUS EQUIPMENT

- CONTACTOR
- EXTERIOR POLE LIGHT
- WATER HEATER

## WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 VOLT
- PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUIVALENT
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC. FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

## FIRE ALARM SYSTEM

- FIRE ALARM SYSTEM CONTROL PANEL
- FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
- FIRE ALARM SYSTEM FIRE PUMP CONTROLLER
- FIRE ALARM SYSTEM MANUAL PULL STATION
- FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE
- WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN/STROBE
- FIRE ALARM SYSTEM STROBE
- FIRE ALARM SYSTEM SUPERVISORY SWITCH
- FIRE ALARM SYSTEM TAMPER SWITCH
- FIRE ALARM SYSTEM FLOW SWITCH
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED, ELEVATOR RECALL
- FIRE ALARM SYSTEM AUTOMATIC CARBON MONOXIDE DETECTOR W/ AUDIBLE SOUNDER; CEILING MOUNTED. PROVIDE WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
- FIRE ALARM SYSTEM REMOTE TEST STATION
- FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
- FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS
- FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED

## MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CL CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- UL UNLESS NOTED OTHERWISE
- U.N.O. VOLTAGE
- V WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

## FLOOR OUTLETS

- RECESSED FLOOR BOX WITH FULL EIGHT GANGS. SIMILAR TO WALKER RFB11 OR PRIOR APPROVED EQUALS. ARCHITECT TO SELECT FINISH. PROVIDE WITHIN 2-DUPLEX RECEPTACLES NEMA 5-20R PROVIDE CONDUITS AS SHOWN ON SHEET E6.3 PROVIDE TWO (2) 1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING IN CORRIDOR PROVIDE TWO (2) 1 1/4" CONDUITS TO TBB. PROVIDE ADDITIONAL CONDUITS AS SHOWN ON DRAWINGS. PROVIDE PROTECTIVE COLLAR FOR STUBS. PROVIDE WITH FLOOR EXTENSION FOR MOUNTING IN GYMNASIUM FLOOR

## INTERCOM SYSTEM

- INTERCOM SPEAKER - DROP-IN CEILING TILE SPEAKER
- RECESSED INTERCOM SPEAKER - RECESSED LOUD SPEAKER FOR GYM
- INTERCOM SYSTEM - CONSOLE
- INTERCOM CIRCUITRY

## GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 277/480V, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRG. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A FULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS. FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
26. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.

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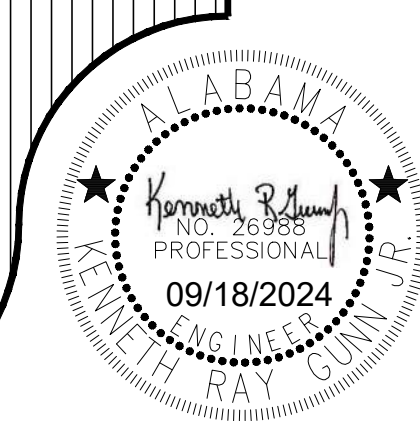
FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

MCKEE and ASSOCIATES  
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SHEET TITLE : ELECTRICAL LEGEND & NOTES

MCKEE JOB # : 24-169

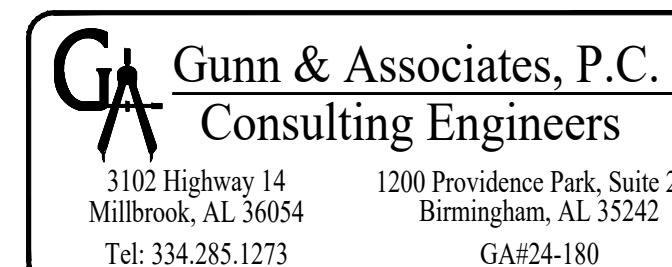
DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

REVISED DATE :

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SHEET NO. : E0.1



**GENERAL NOTES:**

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. SEE SHEET E1.2 FOR TYPICAL TRENCH/DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.
7. SEE SHEET COMMUNICATIONS RISER DIAGRAMS ON SHEET E6.2 FOR ADDITIONAL REQUIREMENTS.
8. PROVIDE ALL EMPTY CONDUITS AND COMMUNICATIONS CONDUITS WITH MULE TAPE. EVEN WITH FIBER PULLED INSIDE CONDUIT.

**SITE LEGEND**

- UP--- UNDERGROUND PRIMARY
- US--- UNDERGROUND SECONDARY
- UP--- OVERHEAD PRIMARY
- OC--- OVERHEAD COMMUNICATION

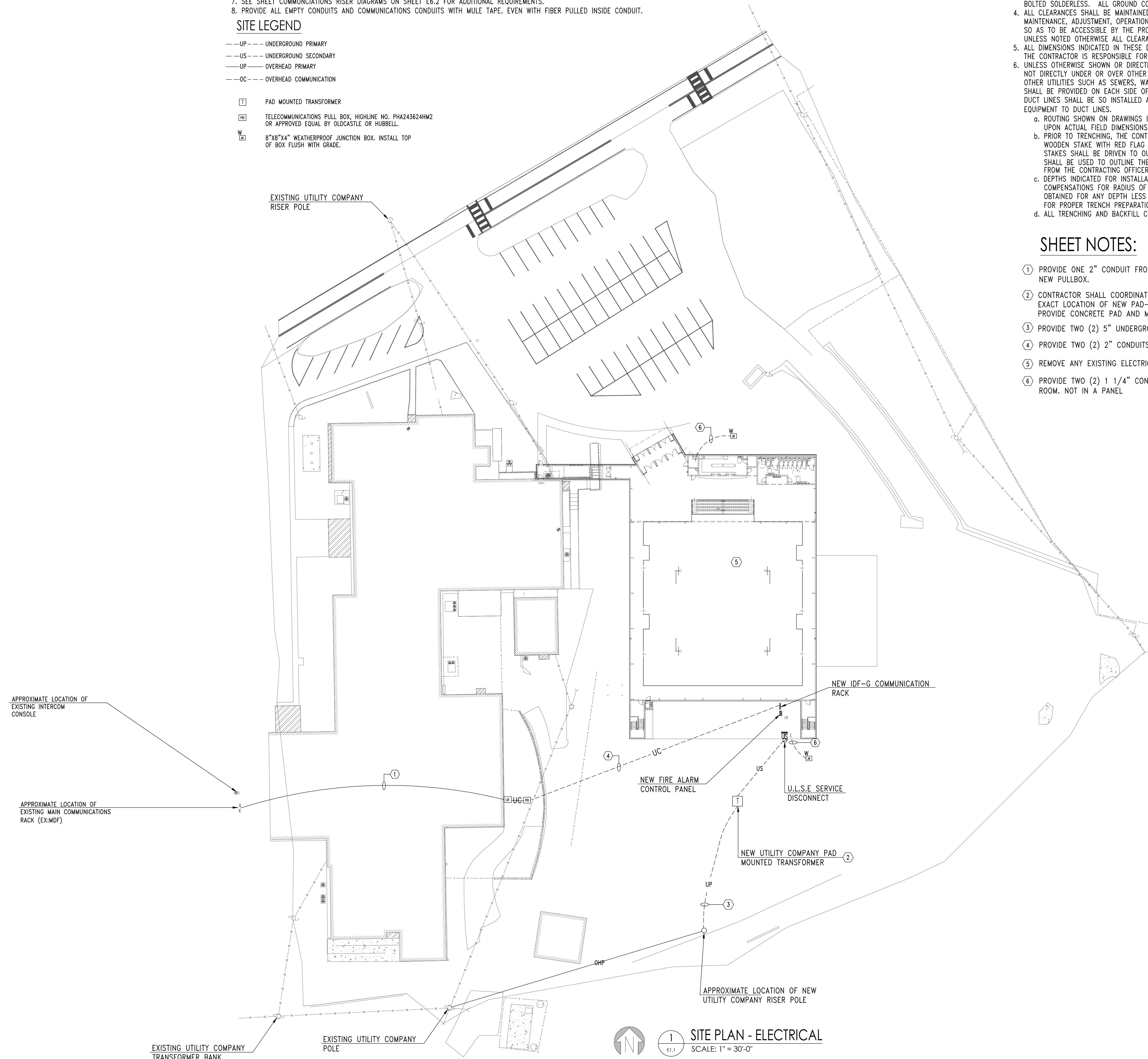
- PAD MOUNTED TRANSFORMER
- TELECOMMUNICATIONS PULL BOX, HIGHLINE NO. PHA243624HM2 OR APPROVED EQUAL BY OLDCASTLE OR HUBBELL.
- 8"x8"x4" WEATHERPROOF JUNCTION BOX. INSTALL TOP OF BOX FLUSH WITH GRADE.

**UNDERGROUND UTILITY NOTES:**

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
  - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
  - b. DUCTBANK INSTALLATIONS
  - c. LOW VOLTAGE CONDUCTOR INSTALLATION
  - d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
  - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
  - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
  - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
  - d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

**SHEET NOTES:**

1. PROVIDE ONE 2" CONDUIT FROM EXISTING MDF COMMUNICATION'S RACK IN MAIN OFFICE. LB OUT OF BUILDING INTO NEW PULLBOX.
2. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR EXACT STUB OUT FOR PRIMARY CONDUITS AND EXACT LOCATION OF NEW PAD-MOUNTED TRANSFORMER AND ADJUST PRIMARY AND SECONDARY LENGTHS ACCORDINGLY. PROVIDE CONCRETE PAD AND METERING PER ALABAMA POWER SPECIFICATIONS.
3. PROVIDE TWO (2) 5" UNDERGROUND CONDUITS FROM TRANSFORMER TO APCO RISER POLE.
4. PROVIDE TWO (2) 2" CONDUITS FROM NEW PULLBOX TO IDF-G1.
5. REMOVE ANY EXISTING ELECTRICAL AT BASEBALL FIELD TO MAKE WAY FOR NEW BUILDING.
6. PROVIDE TWO (2) 1 1/4" CONDUITS WITH PULLRINGS FROM NEW JUNCTION BOX TO ELECTRICAL ROOM AND STUB IN ROOM. NOT IN A PANEL.

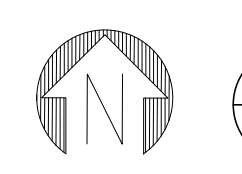


APPROXIMATE LOCATION OF EXISTING INTERCOM CONSOLE

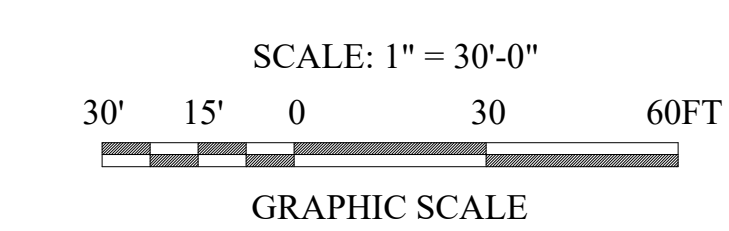
APPROXIMATE LOCATION OF EXISTING MAIN COMMUNICATIONS RACK (EX-MDF)

EXISTING UTILITY COMPANY TRANSFORMER BANK

EXISTING UTILITY COMPANY POLE



**1** SITE PLAN - ELECTRICAL  
SCALE: 1" = 30'-0"



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1200 Providence Park, Suite 200 Birmingham, AL 35242 GA#24-180

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SHEET TITLE : SITE PLAN - ELECTRICAL

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

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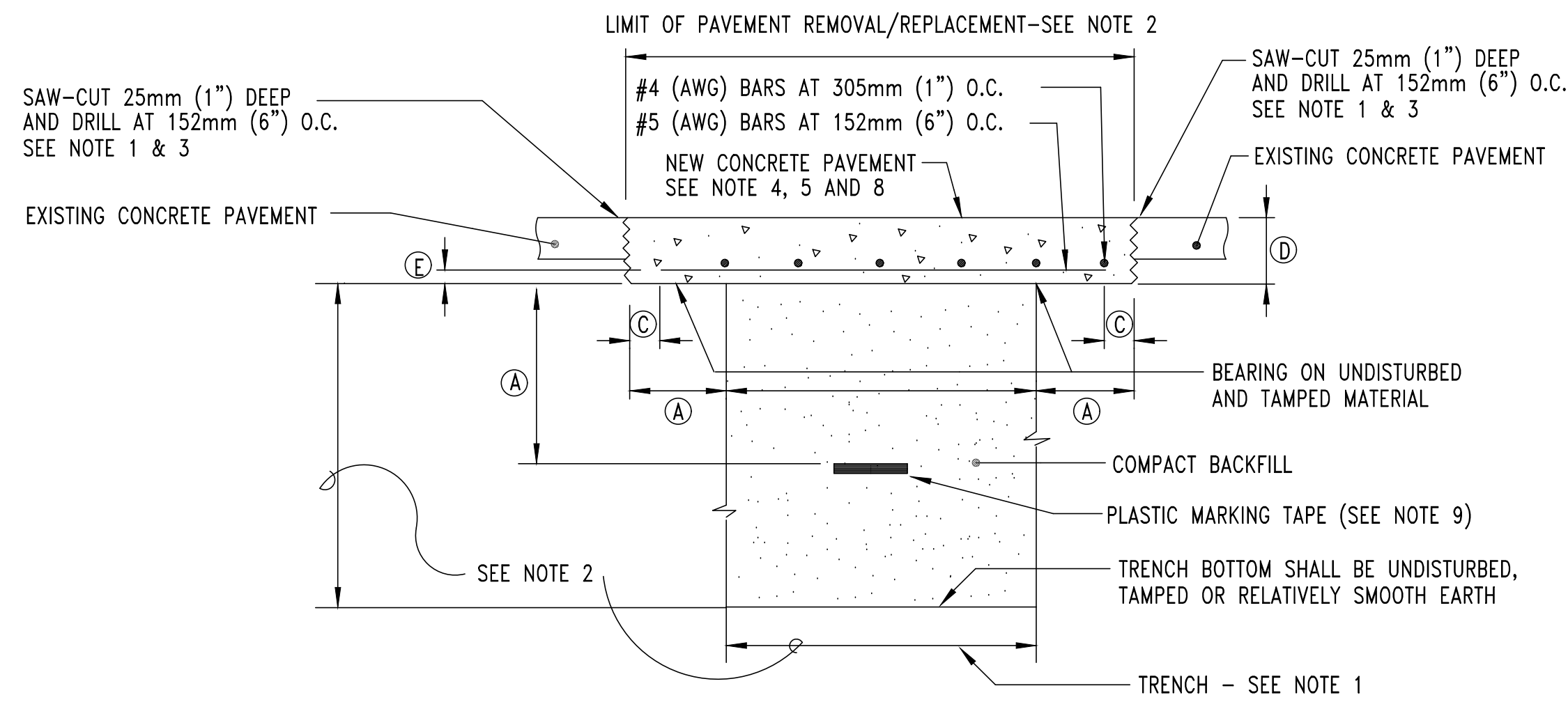
- Where necessary, Supplement 10, 2024 to the 2017 NEC



DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

**NOTES:**

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
- LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
- ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40.
- REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

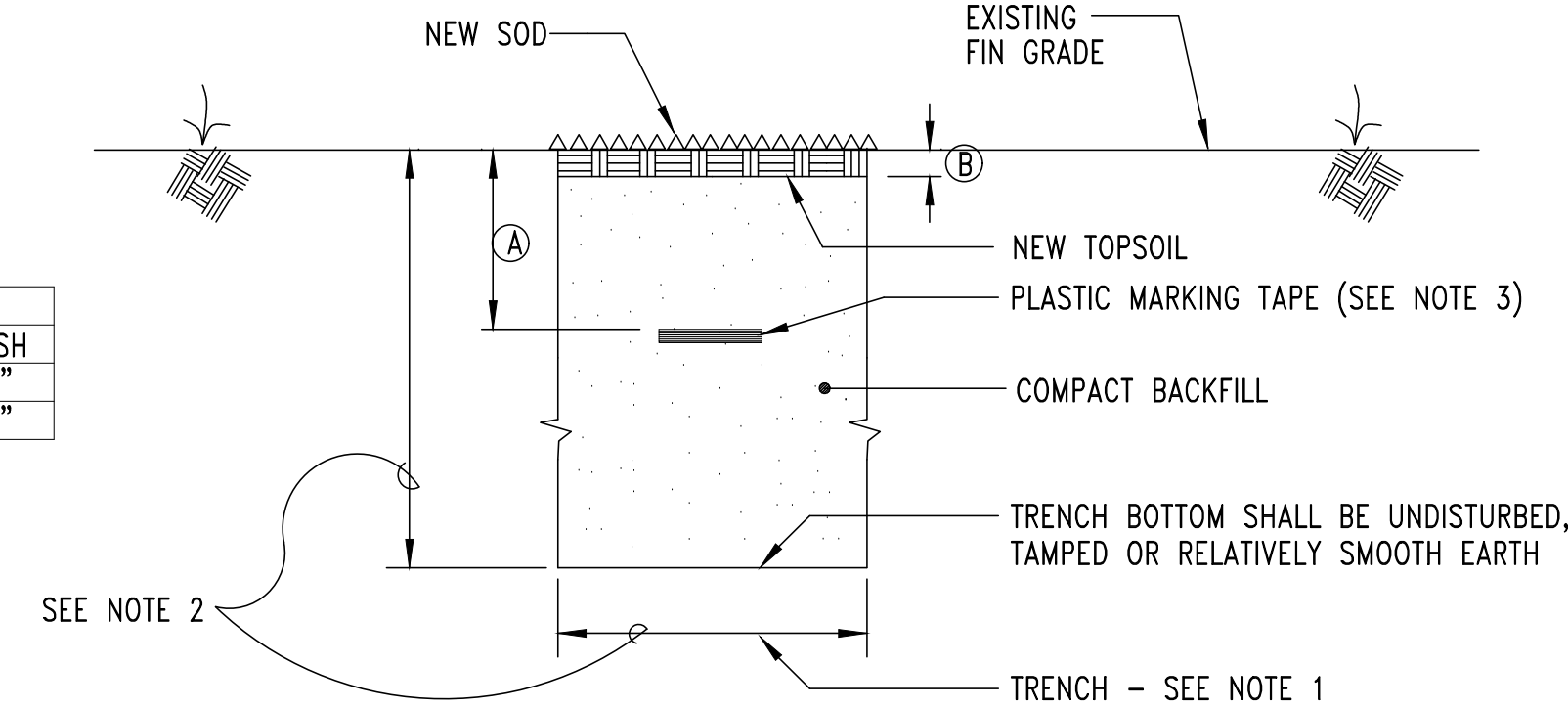


**2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT**  
E1.2 NO SCALE

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	51mm	0'-2"

**NOTES:**

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

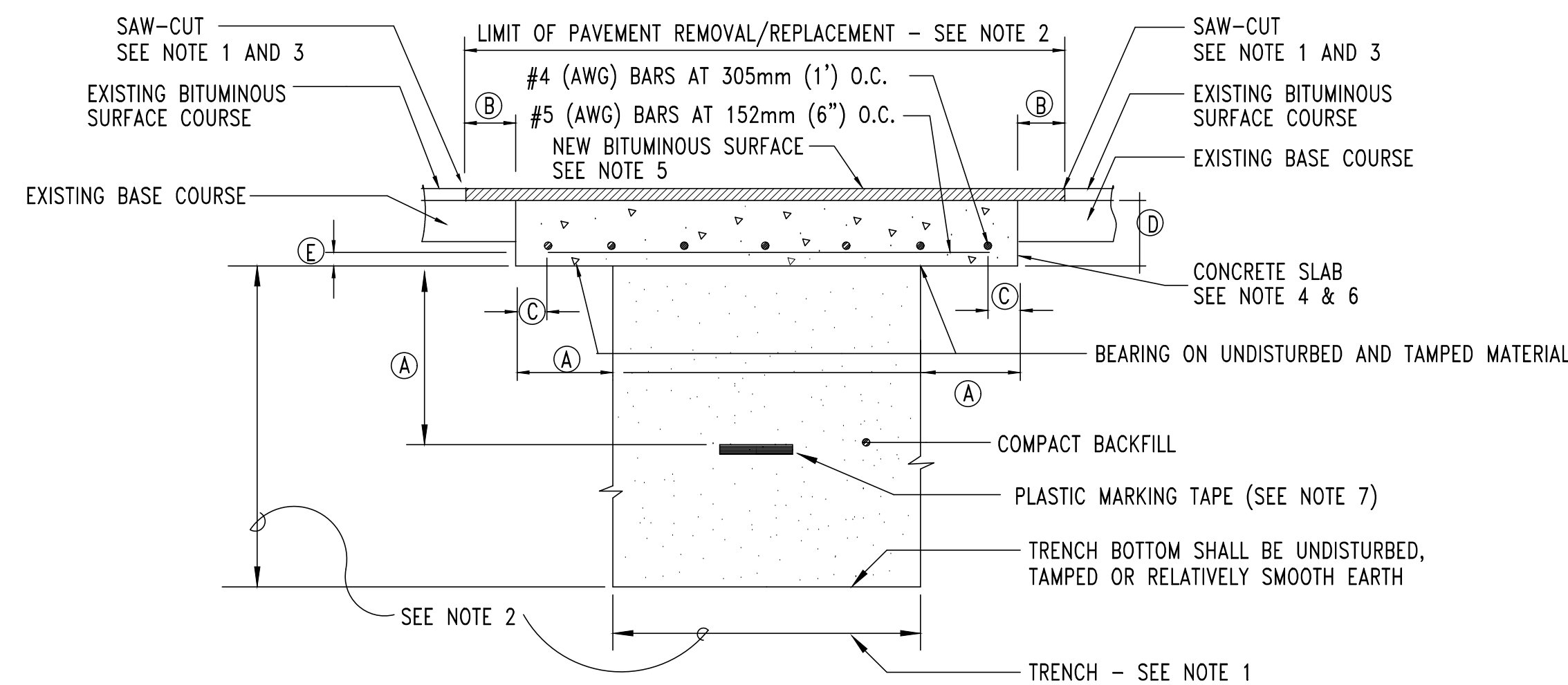


**3 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS**  
E1.2 NO SCALE

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

**NOTES:**

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40.
- REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.



**1 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT**  
E1.2 NO SCALE

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SHEET TITLE : TRENCHING DETAILS & NOTES

MCKEE JOB # : 24-169

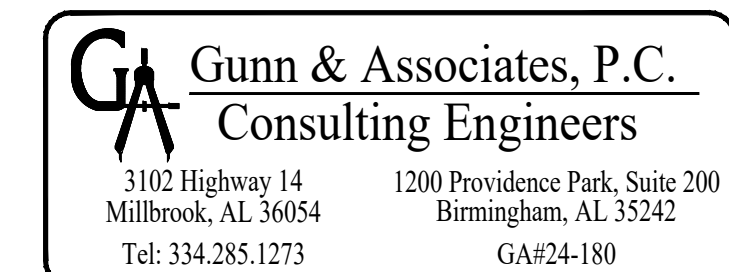
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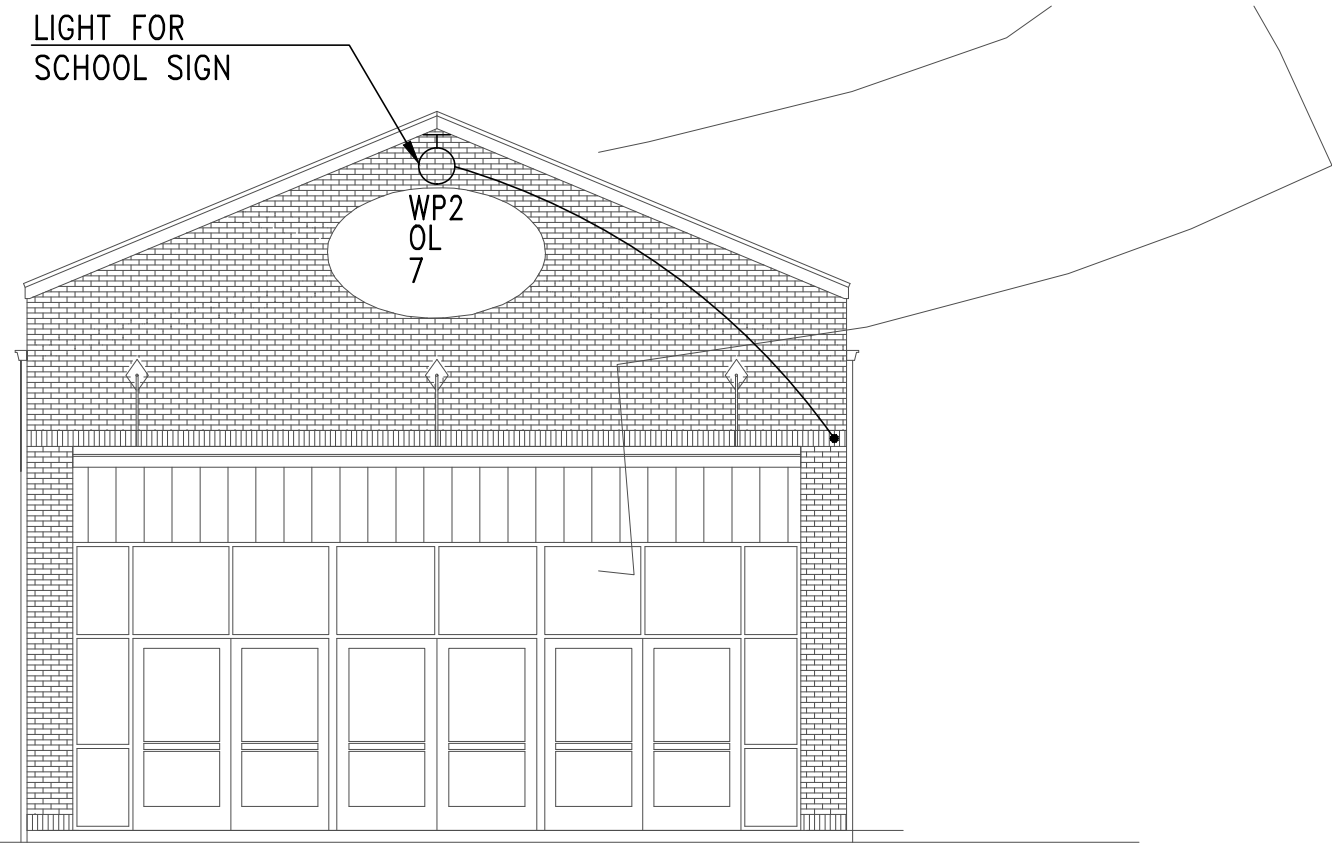
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REVISED DATE :



SHEET NO. : E1.2





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

**GENERAL NOTES:**

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
2. COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. SEE LIGHTING CONTROL DETAILS ON SHEET E2.3 & E2.4 FOR ADDITIONAL REQUIREMENTS.

**SHEET NOTES:**

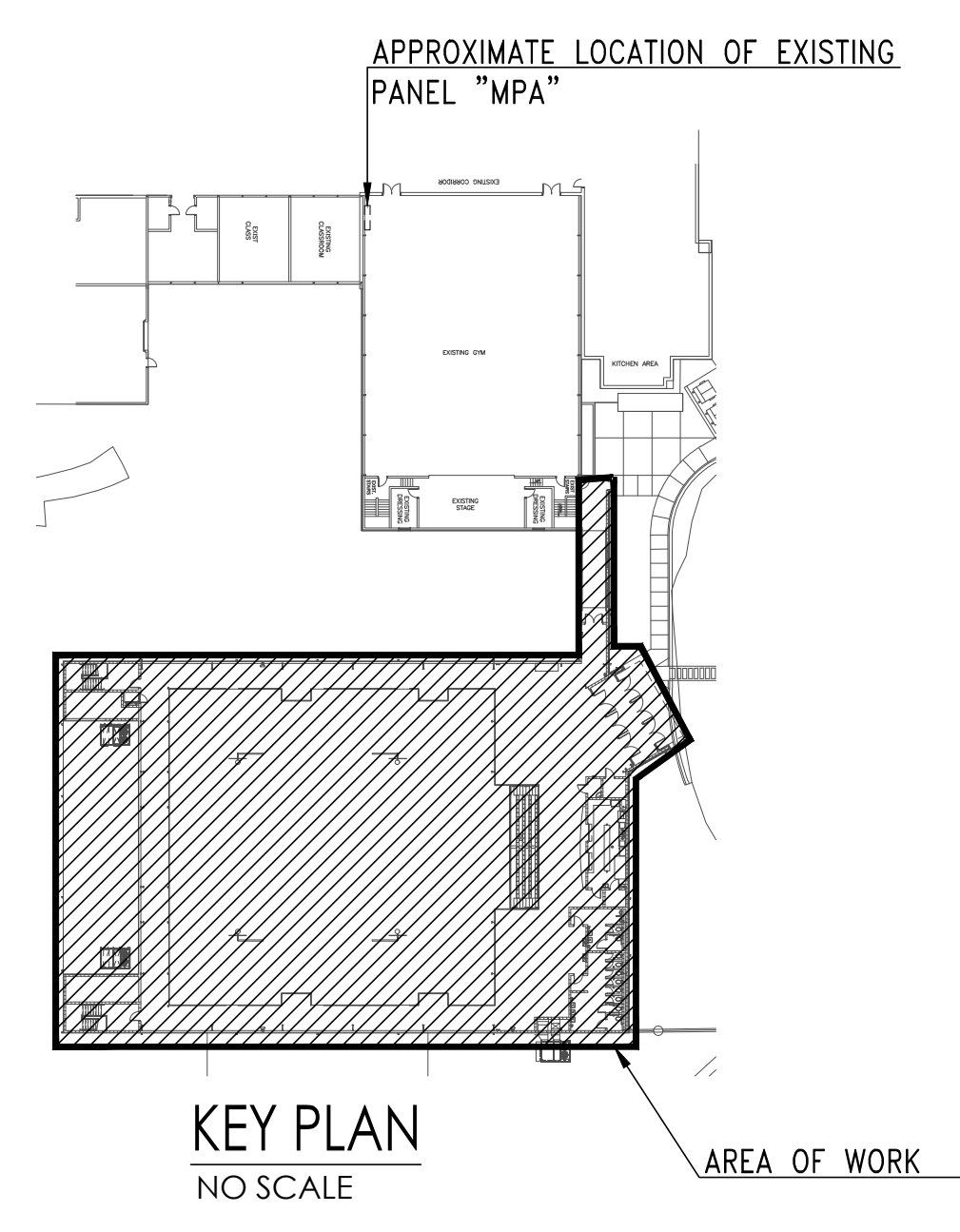
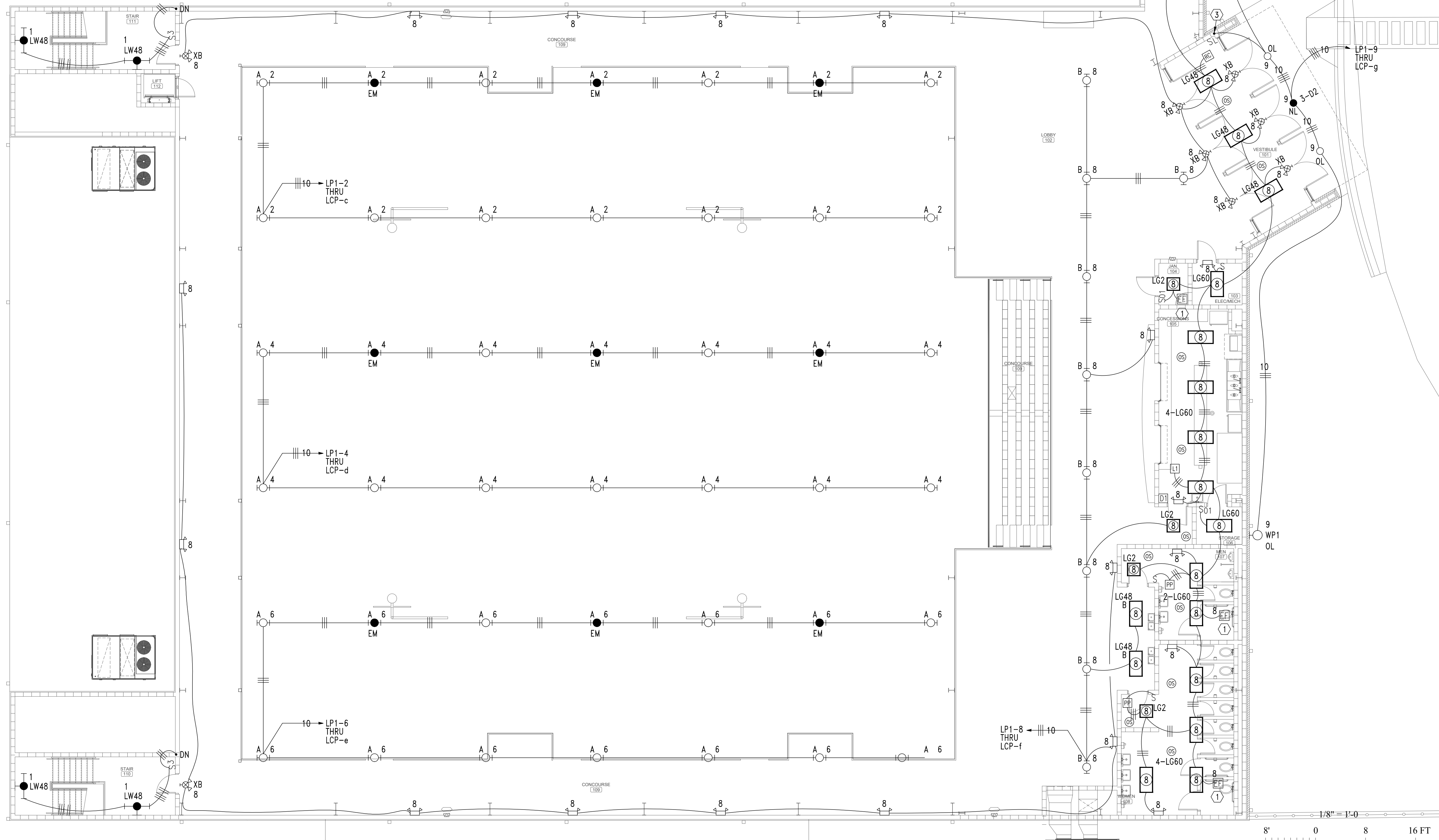
1. PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277 VOLT LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.
2. CONTRACTOR SHALL PROVIDE (1) ONE NEW 20A/1P (42K AIC) CIRCUIT BREAKER IN EXISTING PANEL "MPA" TO FEED NEW LIGHTS.
3. STUB UP FOR POWER ON SCHOOL SIGN AS REQUIRED.

**ROOM CONTROLLER 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 UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

**PHOTOCONTROL OF LIGHTING:**

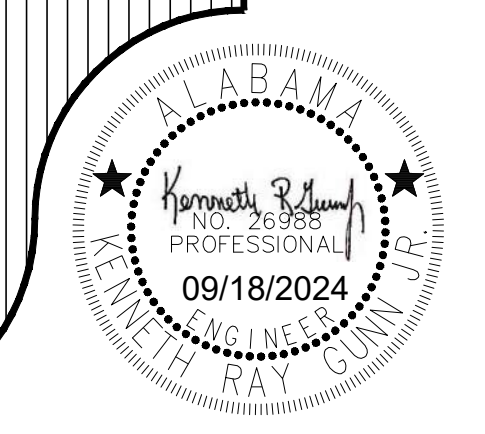
1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.



**1 MAIN LEVEL FLOOR PLAN - LIGHTING**  
SCALE: 1/8"=1'-0"

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : MAIN LEVEL FLOOR PLAN LIGHTING

MCKEE JOB # : 24-169

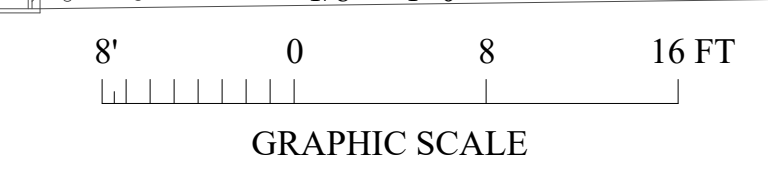
DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :



**Gunn & Associates, P.C.**  
 Consulting Engineers  
 3102 Highway 14  
 Millbrook, AL 36054  
 Tel: 334.285.1273

1200 Providence Park, Suite 200  
 Birmingham, AL 35242  
 GA#24-180

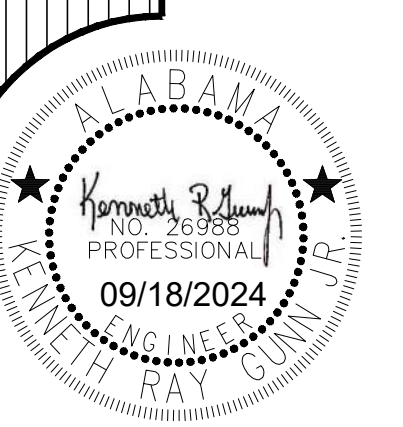
SHEET NO. : **E2.1**



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ARCHITECTS, INC.

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**ROOM CONTROLLER NOTES:**

- 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 UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

**PHOTOCONTROL OF LIGHTING:**

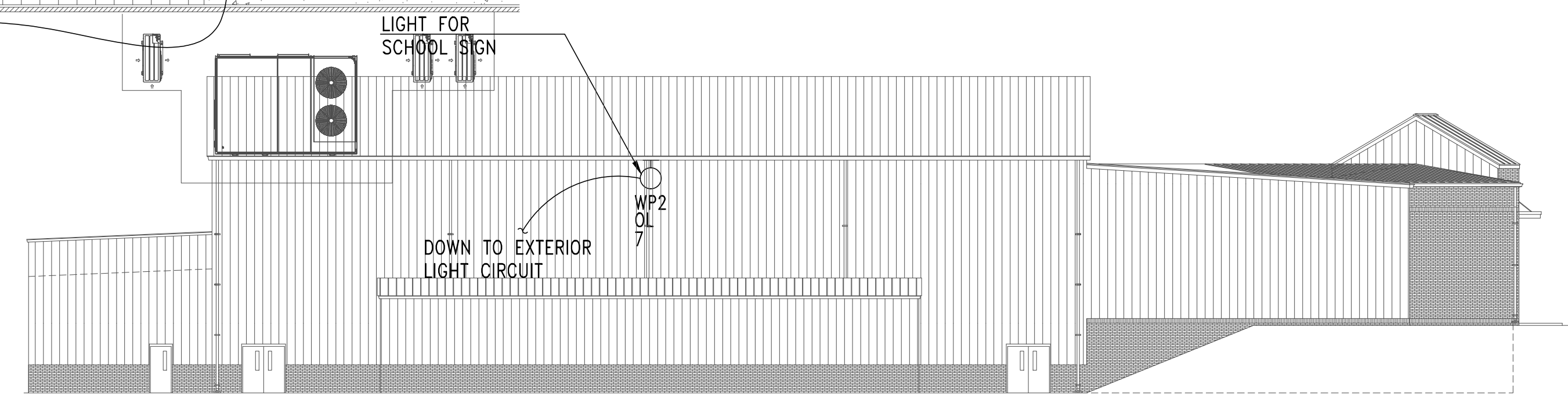
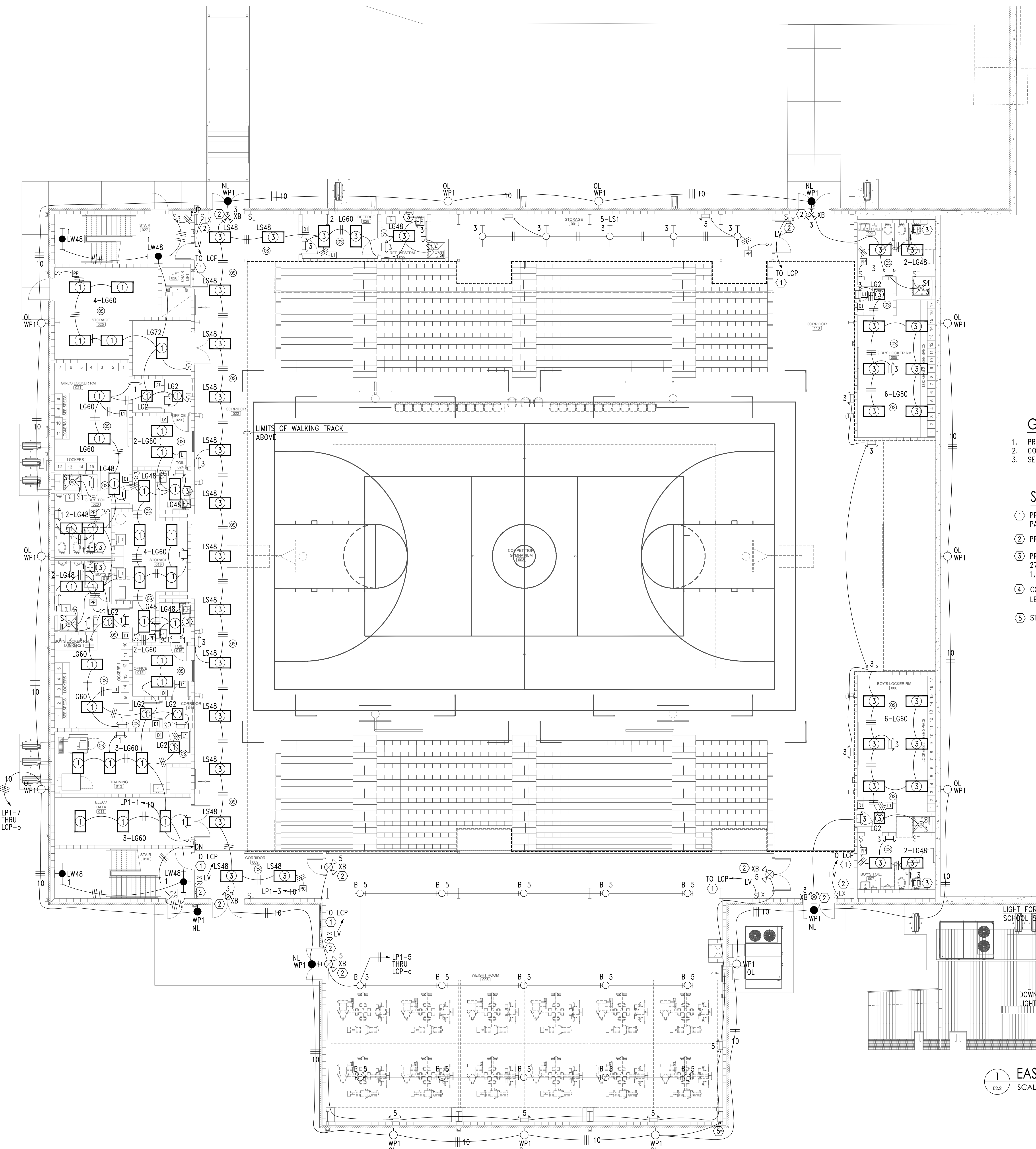
- PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

**GENERAL NOTES:**

- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
- COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
- SEE LIGHTING CONTROL DETAILS ON SHEET E2.2 FOR ADDITIONAL REQUIREMENTS.

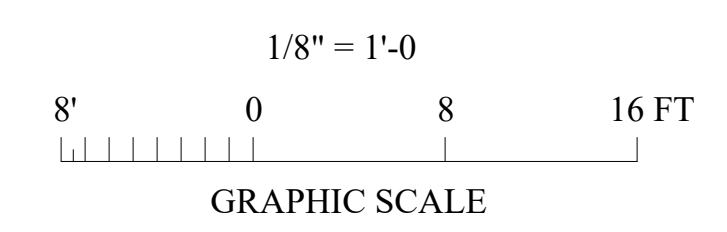
**SHEET NOTES:**

- PROVIDE LOW VOLTAGE CABLING FROM LOW VOLTAGE SWITCH TO THE LIGHTING CONTROL PANEL AS REQUIRED BY LIGHTING CONTROL PANEL MANUFACTURER.
- PROVIDE WIREGUARD FOR ALL EXIT SIGNS, EMERGENCY WALL PACKS, AND SWITCHES IN THIS AREA.
- PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277 VOLT LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.
- CONTRACTOR SHALL SET ALL PROGRAMMABLE CONTROLS FOR "WP1 & D2" TYPE FIXTURES TO REDUCE LIGHT LEVELS TO THIRTY PERCENT (30 %) BETWEEN THE HOURS OF MIDNIGHT AND 6:00 AM IN THE MORNING.
- STUB UP FOR POWER ON SCHOOL SIGN AS REQUIRED.



**1 EAST ELEVATION PLAN - LIGHTING**  
SCALE: 1/16"=1'-0"

**1 LOWER LEVEL FLOOR PLAN - LIGHTING**  
SCALE: 1/8"=1'-0"



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Birmingham, AL 35242  
GAV24-180

SHEET TITLE : LOWER LEVEL FLOOR PLAN LIGHTING

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

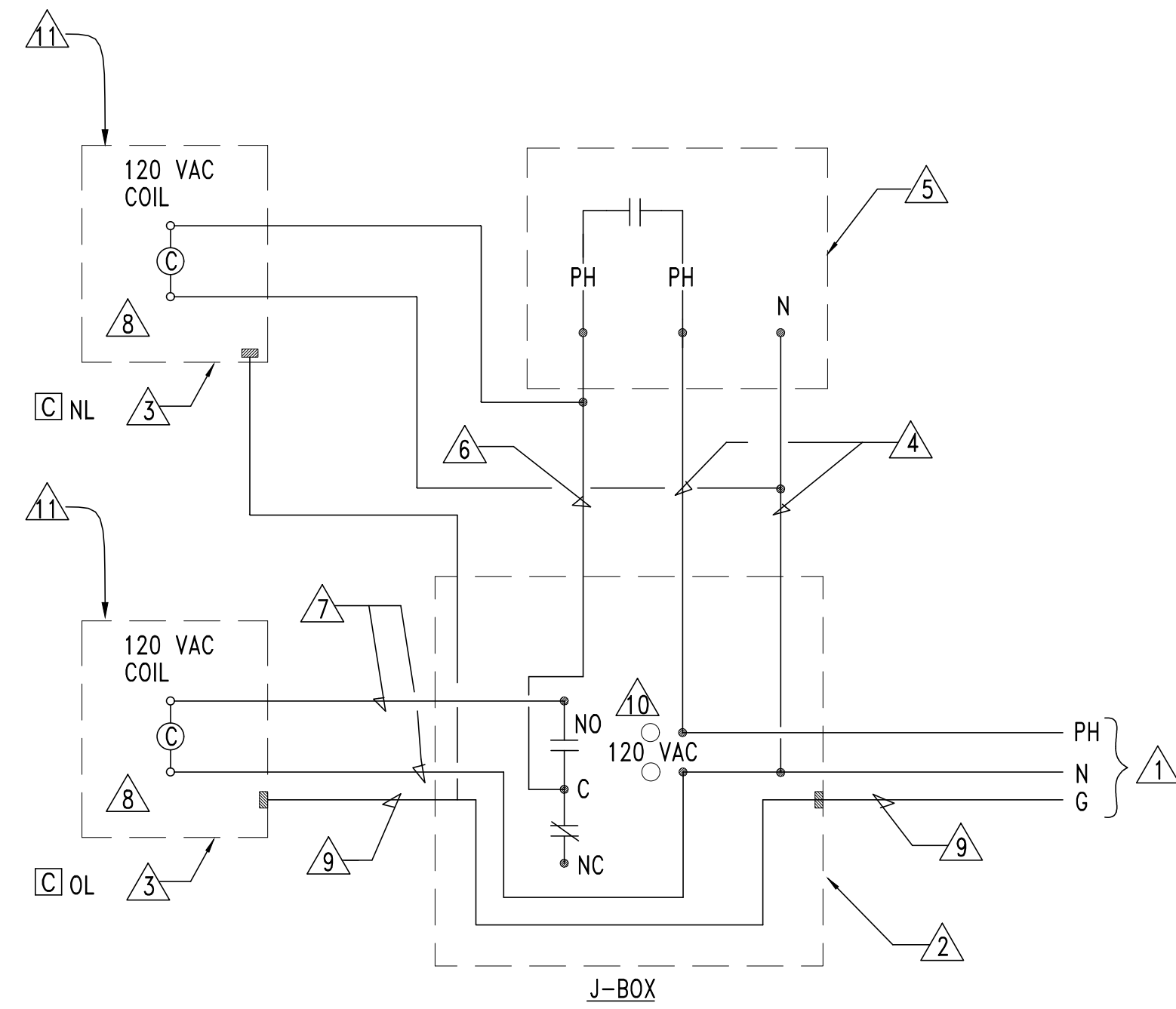
REVISED DATE :

REVISED DATE :

SHEET NO. : **E2.2**

- preliminary, dependent on 10, 2024 - 11-20-24





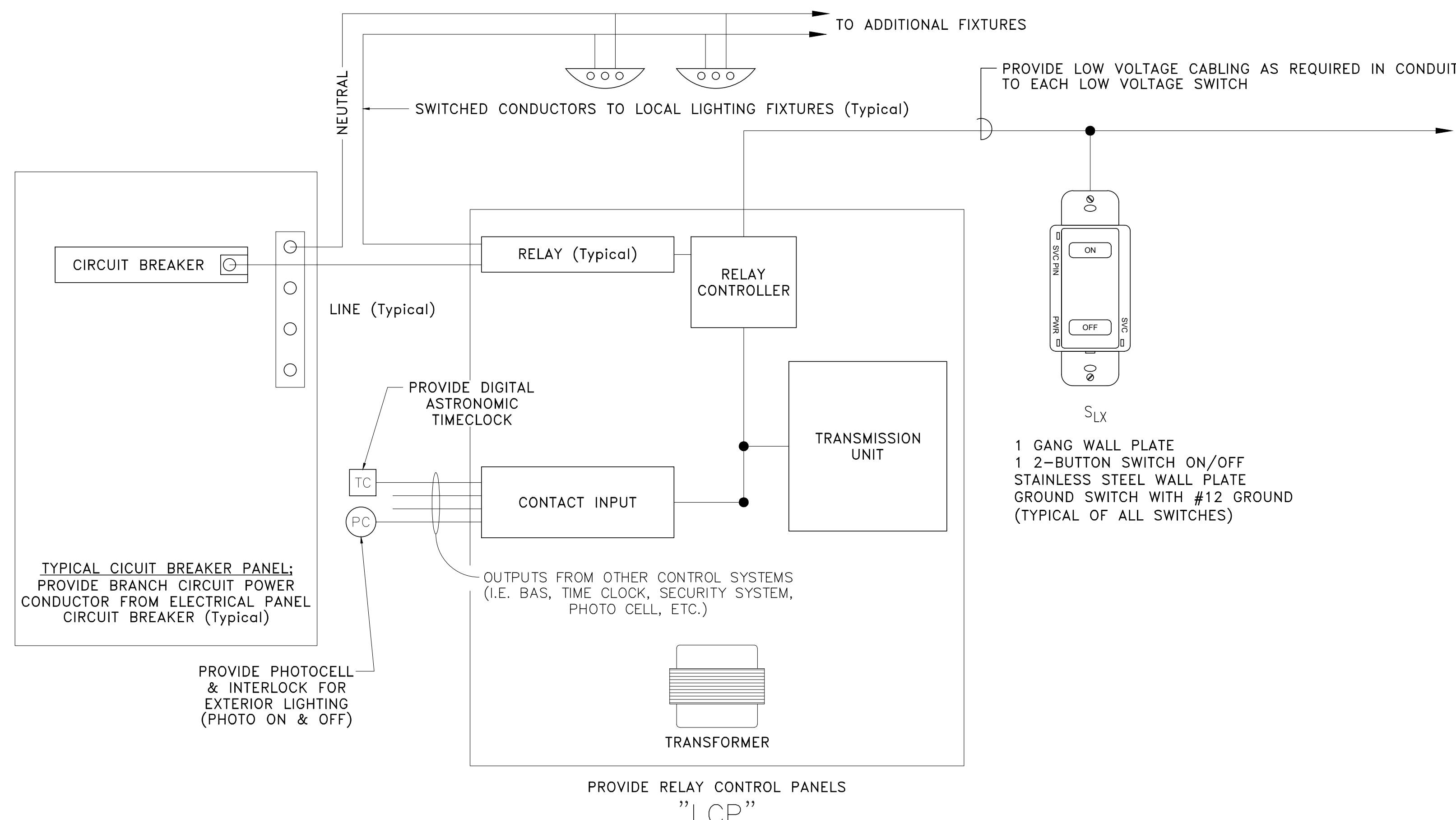
1  
E2.1  
DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR  
NO SCALE

KEYED NOTES

- 1 POWER SUPPLY - 120V, 1PH, 60HZ
- 2 TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- 3 CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- 4 POWER TAP TO PHOTO-CELL IN GRC
- 5 TURN-LOCK PHOTO-CELL, SEE DETAIL
- 6 SWITCH LEG RETURN IN GRC
- 7 POWER TO CONTACTOR COIL
- 8 LIGHTING CONTACTOR [C]NL & [C]OL AS FOLLOWS:
  - NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
  - ELECTRICALLY OPERATED-ELECTRICALLY HELD
  - RATING AND NUMBER OF POLES INDICATED
  - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
  - FUSING FOR CONTROL CIRCUIT
- 9 GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
- 10 DIGITAL TIME SWITCH AS FOLLOWS:
  - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
  - INPUT: 120 VAC, 60HZ
  - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
  - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
  - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
  - RELATIVE HUMIDITY: 0 TO 90% RH
  - CLOCK ACCURACY: ±2 MINUTES PER YEAR
  - LED INDICATION OF TIME AND LOAD STATUS
  - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
- 11 PROVIDE NUMBER OF POLES REQUIRED.

LIGHTING CONTROL SYSTEM NOTES

1. PROVIDE BLINK FLASH MODULE TO ENABLE THE LIGHTING CONTROL SYSTEM TO BLINK THE LIGHTS FOR WARNING THE LIGHTS ARE ABOUT TO GO OFF.
2. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
3. ALL WIRING FOR LIGHTING CONTROL SYSTEM SHALL BE INSTALLED IN CONDUIT.
4. ALL DEVICES ARE SHOWN TYPICAL, SEE DRAWINGS FOR ACTUAL DEVICE COUNT.
5. PROVIDE SUBMITTAL DRAWINGS SHOWING THE COMPLETE LIGHTING CONTROL SYSTEM (RELAYS, PANELS, SWITCHES, DIMMER RELAYS, AMPLIFIERS, INTERCONNECTING CIRCUITRY, ETC.) SHALL BE SUBMITTED TO THE ENGINEER OF RECORD DURING THE SUBMITTAL REVIEW. SUBMITTALS WILL BE REJECTED WITHOUT FULL DRAWINGS.
6. PROVIDE 6-CHANNEL ASTRONOMIC DIGITAL TIMECLOCK WITH SYSTEM FOR AUTOMATIC LIGHTING CONTROL SCHEDULE OF REQUIRED INTERIOR LIGHTING AUTOMATIC SHUT OFF AND EXTERIOR LIGHTING EVENING ON/OFF SCHEDULE. INTERIOR LIGHTING SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
7. SYSTEM PROGRAMMING GROUPS, PATTERNS, ETC. SHALL BE CONDUCTED BY CERTIFIED MANUFACTURER'S REPRESENTATIVE SUBJECT TO OWNER'S APPROVAL.
8. PROVIDE 20AMP 120VAC DEDICATED CIRCUIT TO LIGHTING CONTROL PANELS AND TIMECLOCK.
9. ALL PROGRAMMING SHALL BE PROVIDED BY A CERTIFIED MANUFACTURER REPRESENTATIVE PROVIDED AT THE JOBSITE. COORDINATE WITH OWNER FOR FINAL PROGRAMMING REQUIREMENTS AND IMPLEMENT INTO FINAL PROGRAMMING.
10. APPROVED MANUFACTURER'S ARE HUBBELL, EATON, NEXLIGHT, AND N-LIGHT.



2  
E2.3  
LOW VOLTAGE LIGHTING CONTROL DETAIL  
NO SCALE

LIGHTING CONTROL PANEL - (LCP)

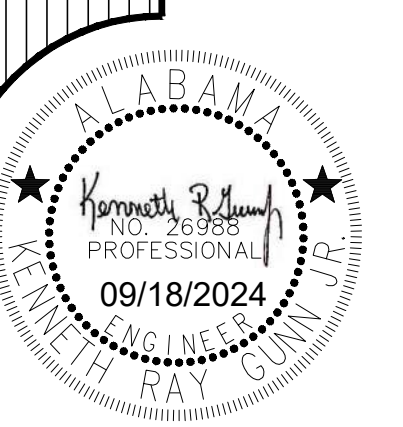
RELAY #	PANEL	CIRCUIT #	PROGRAM	CIRCUIT VOLTAGE	FUNCTION	TYPE	NOTES
a	LP1	5	a	277	ON/OFF	LED	SEE NOTE 2
b	LP1	7	b	277	NL/OL	LED	SEE NOTE 1 & 2
c	LP1	2	c	277	ON/OFF	LED	SEE NOTE 2
d	LP1	4	d	277	ON/OFF	LED	SEE NOTE 2
e	LP1	6	e	277	ON/OFF	LED	SEE NOTE 2
f	LP1	8	f	277	ON/OFF	LED	SEE NOTE 2
g	LP1	9	g	277	NL/OL	LED	SEE NOTE 1 & 2
h	----	----	----	277	----	----	SPARE

- NOTES:
1. "NL" PHOTOCELL ON - PHOTOCELL OFF
  - "OL" PHOTOCELL ON - ASTRONOMICAL CLOCK OFF
  2. EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF SWITCHING WITH A CONSTANT HOT LEG.
  3. PROVIDE BLINK FLASH MODULE.

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SHEET TITLE : LIGHTING CONTROL DETAILS & NOTES

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

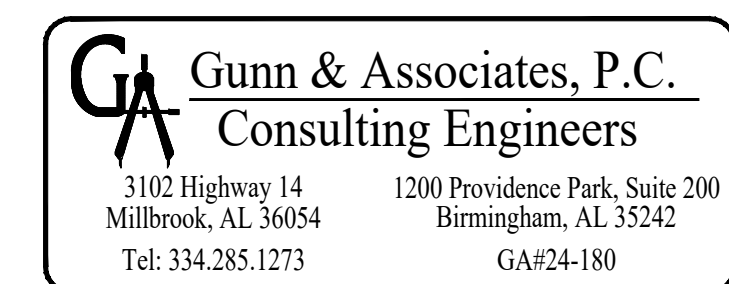
DATE : 09.18.24

REVISED DATE :

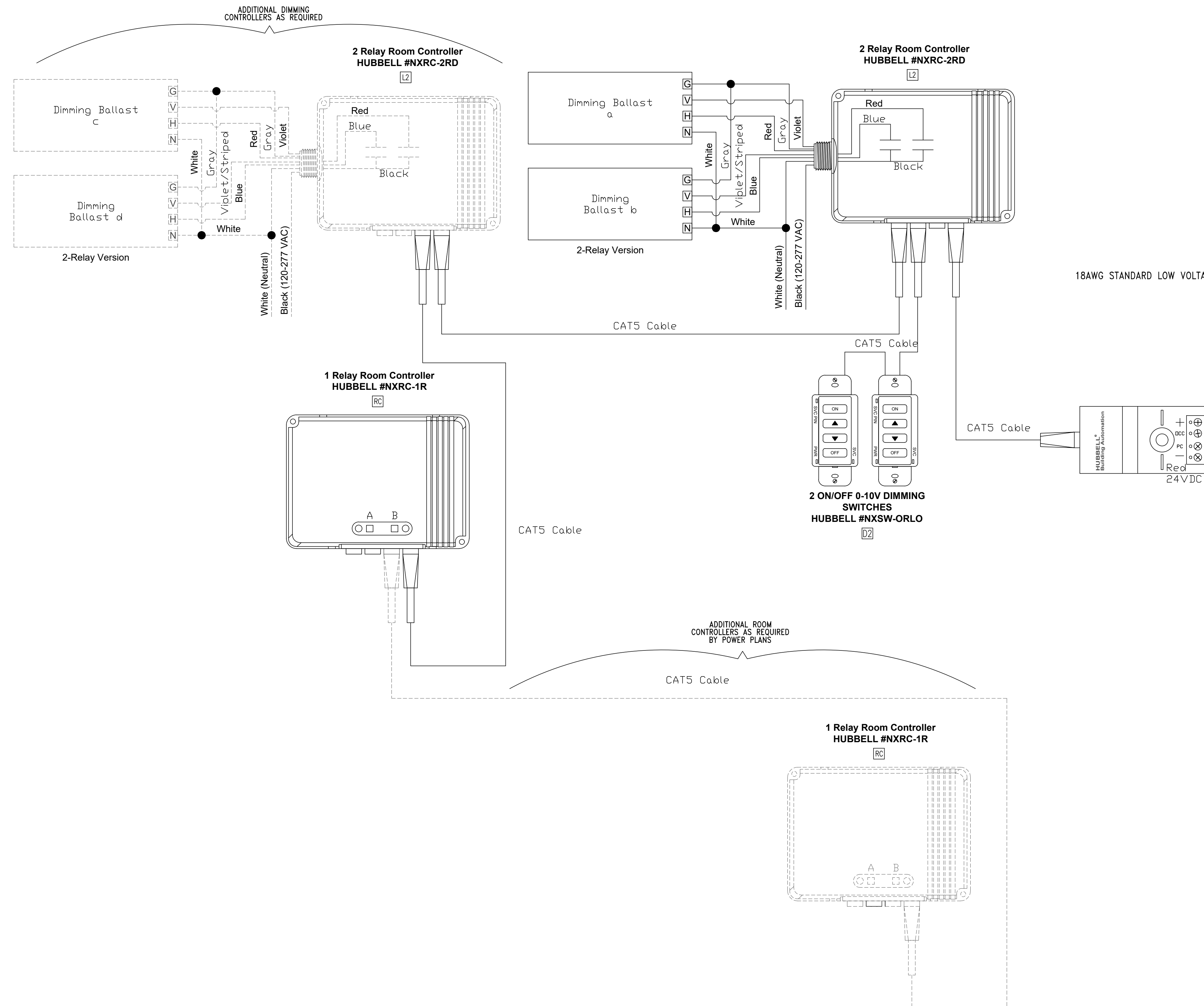
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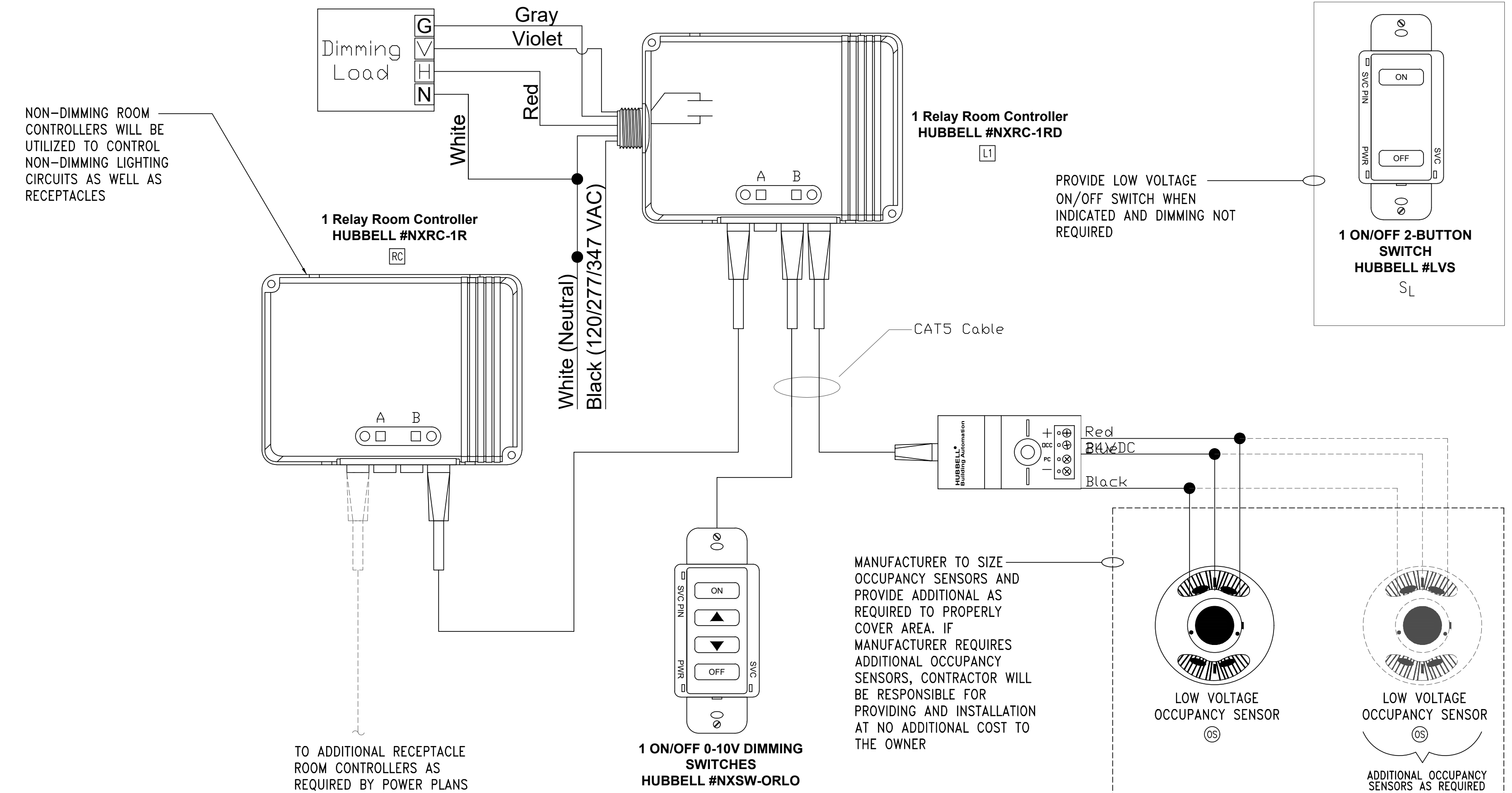
SHEET NO. : E2.3







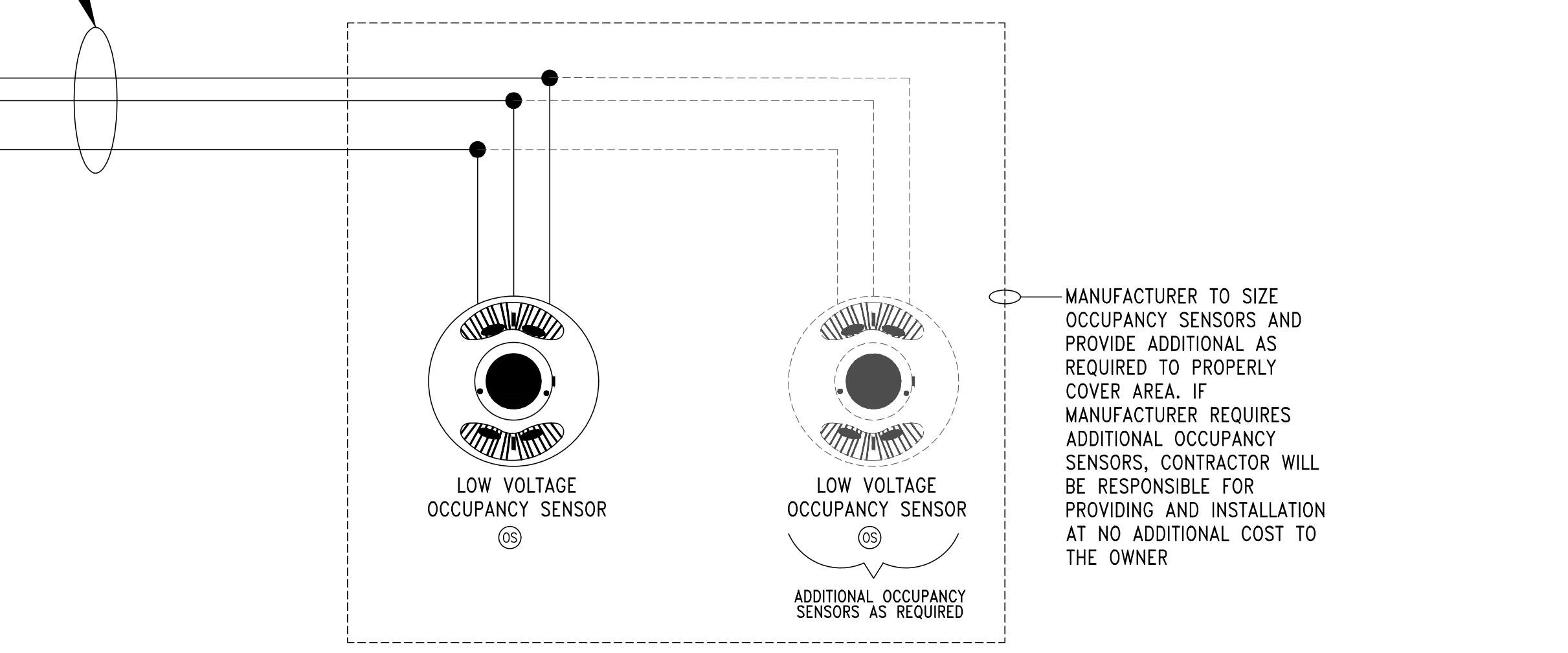
1 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCCELL, MULTIPLE 0-10V DIMMING ZONES, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL  
E2.4 NO SCALE



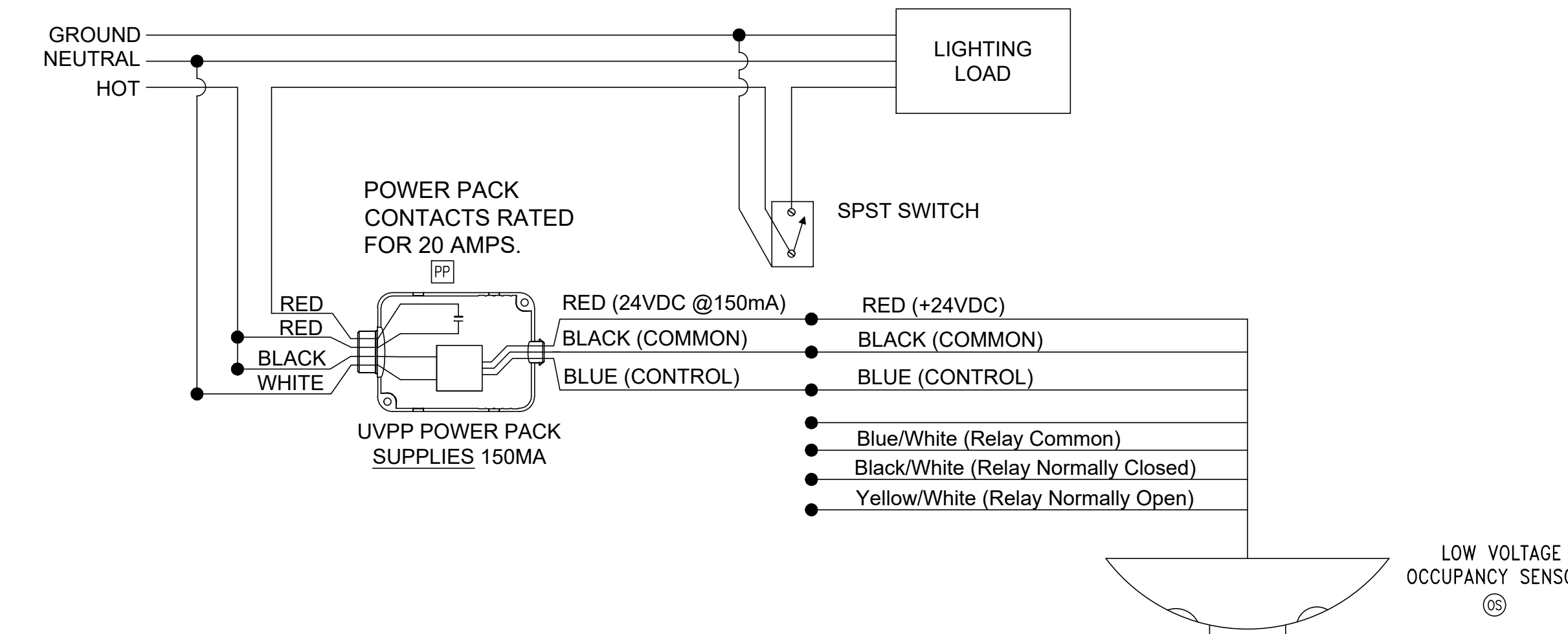
2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL  
E2.4 NO SCALE

OCCUPANCY SENSOR AND CONTROL NOTES:

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
- 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'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- 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.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
- WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



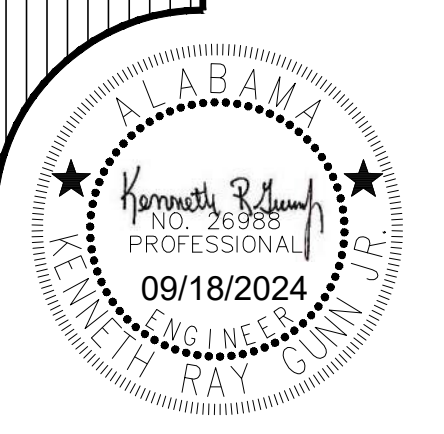
4 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM  
E2.4 NO SCALE



3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM  
E2.4 NO SCALE

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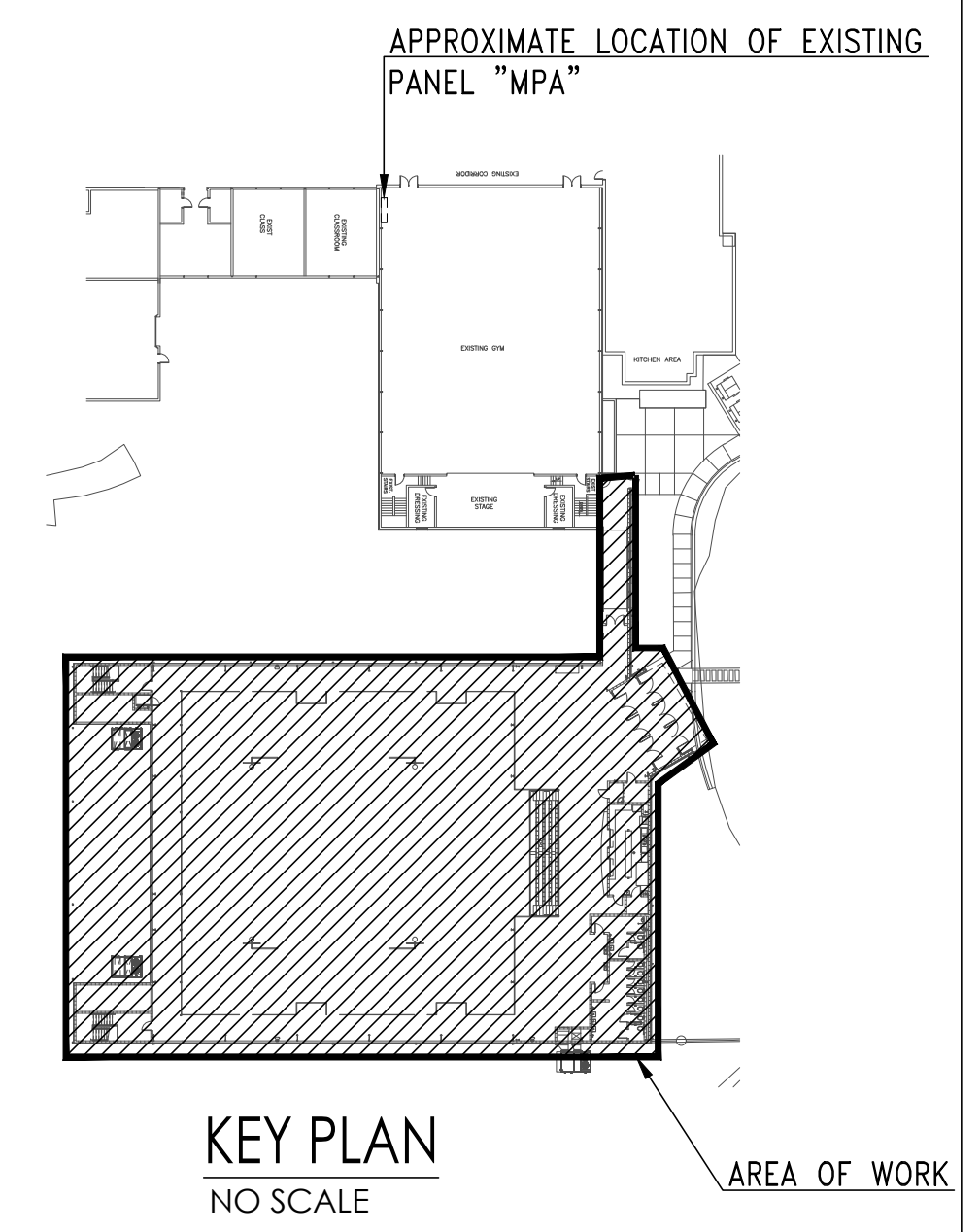
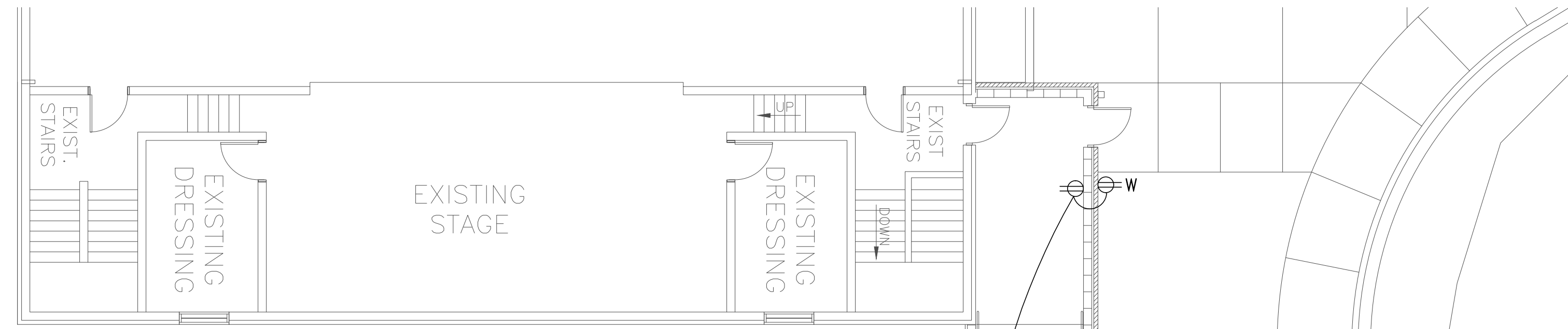


SHEET TITLE : LIGHTING CONTROL DETAILS & NOTES  
MCKEE JOB # : 24-169  
DRAWN BY : J. TILLERY  
DATE : 09.18.24  
REVISED DATE :  
REVISED DATE :

**GA** Gunn & Associates, P.C.  
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1200 Providence Park, Suite 200  
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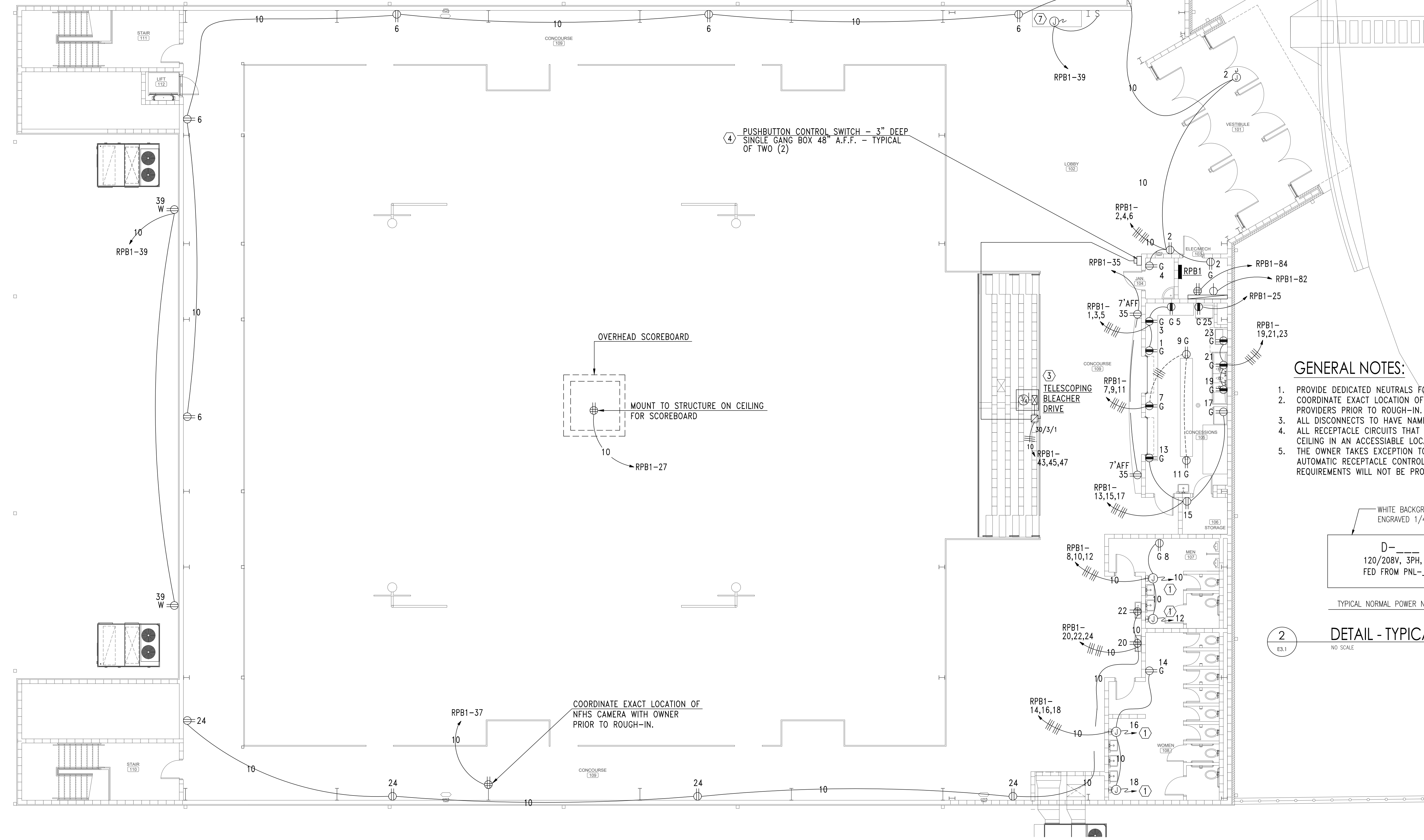
- www.mckee.com, September 10, 2024 4:43:43 PM





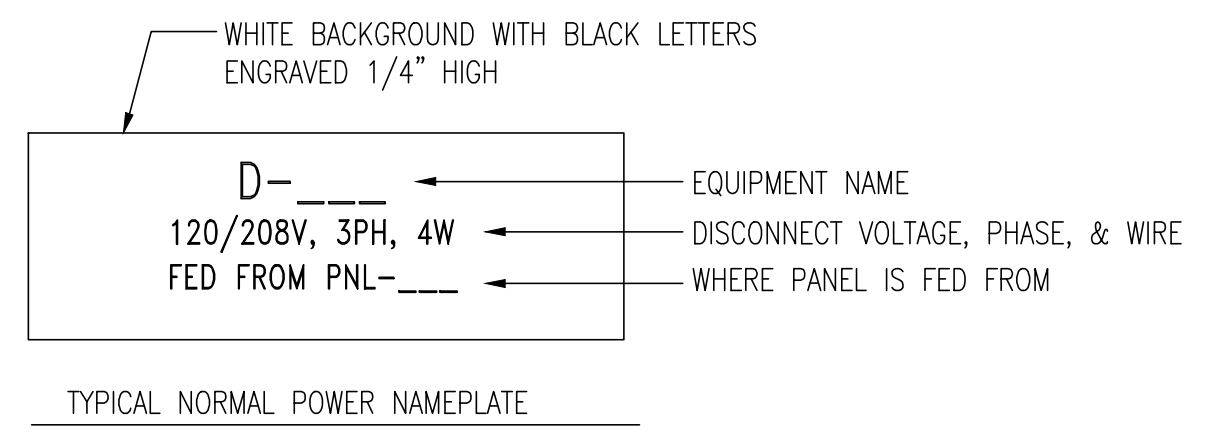
**SHEET NOTES:**

- ① PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED. MAKE CONNECTIONS IF HAND DRYERS ARE PROVIDED.
- ② CONTRACTOR SHALL PROVIDE (1) ONE NEW 20A/1P (42K AIC) CIRCUIT BREAKER IN EXISTING PANEL "MPA" AS REQUIRED.
- ③ TELESCOPING BLEACHER DRIVE, CONTROL SWITCH, CONTACTOR, AND LIMIT SWITCHES FURNISHED WITH DRIVE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
- ④ PROVIDE ALL PUSHBUTTON SWITCHES IN GYMNASIUM WITH PROTECTIVE WIRE GUARDS.

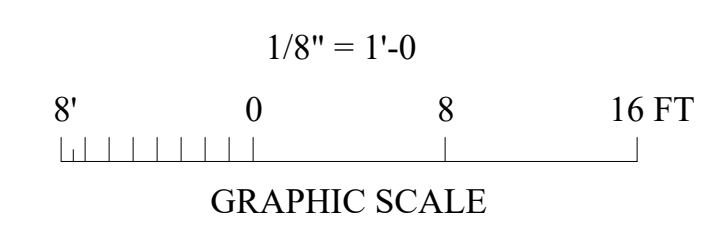


**GENERAL NOTES:**

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.



**2** **DETAIL - TYPICAL DISCONNECT NAMEPLATE**  
NO SCALE

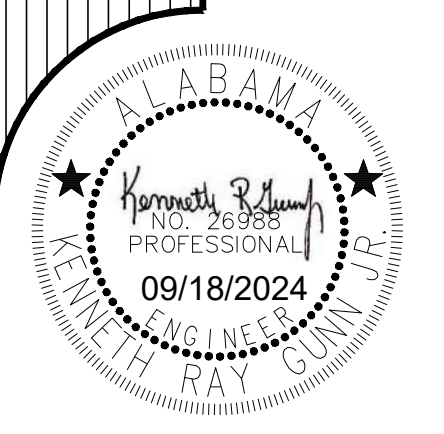


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SHEET TITLE : MAIN LEVEL FLOOR PLAN POWER

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **E3.1**

**1** **MAIN LEVEL FLOOR PLAN - POWER**  
SCALE: 1/8"=1'-0"

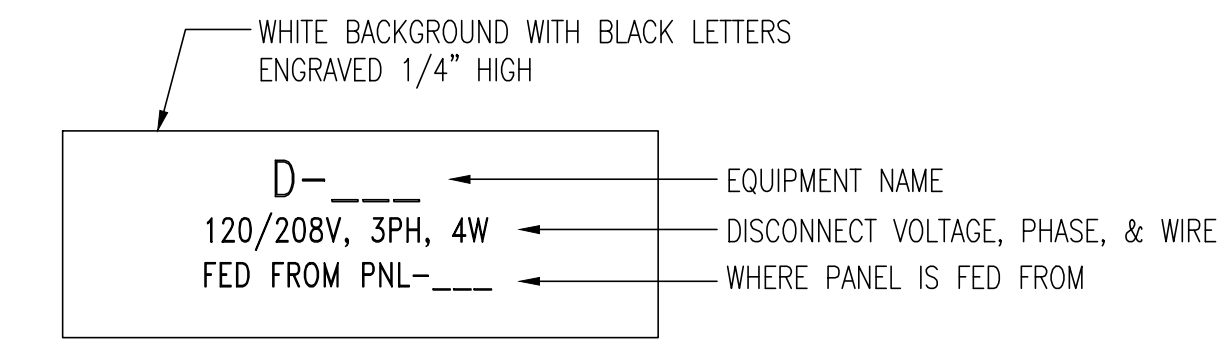


SHEET NOTES:

- ① PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
- ② BASKETBALL BACKSTOP HOIST, CONTROL SWITCH, AND LIMIT SWITCHES FURNISHED WITH HOIST. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
- ③ TELESCOPING BLEACHER DRIVE, CONTROL SWITCH, CONTACTOR, AND LIMIT SWITCHES FURNISHED WITH DRIVE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
- ④ PROVIDE ALL PUSHBUTTON SWITCHES IN GYMNASIUM WITH PROTECTIVE WIRE GUARDS.
- ⑤ CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO BASKETBALL HOIST CONTROL PANEL.
- ⑥ CONTRACTOR SHALL VERIFY EXACT LOCATION OF CONTROL PANEL WITH BASKETBALL HOIST PROVIDER PRIOR TO ROUGH-IN. ADJUST LOCATION AS REQUIRED ALONG WITH ALL CONDUIT AND POWER REQUIRED.
- ⑦ COORDINATE EXACT ROUGH-IN LOCATION WITH TROPHY CASE PROVIDER.
- ⑧ APPROXIMATE LOCATION OF SHOT CLOCK. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF SWITCH FOR SHOT CLOCK WITH OWNER PRIOR TO ROUGH-IN.

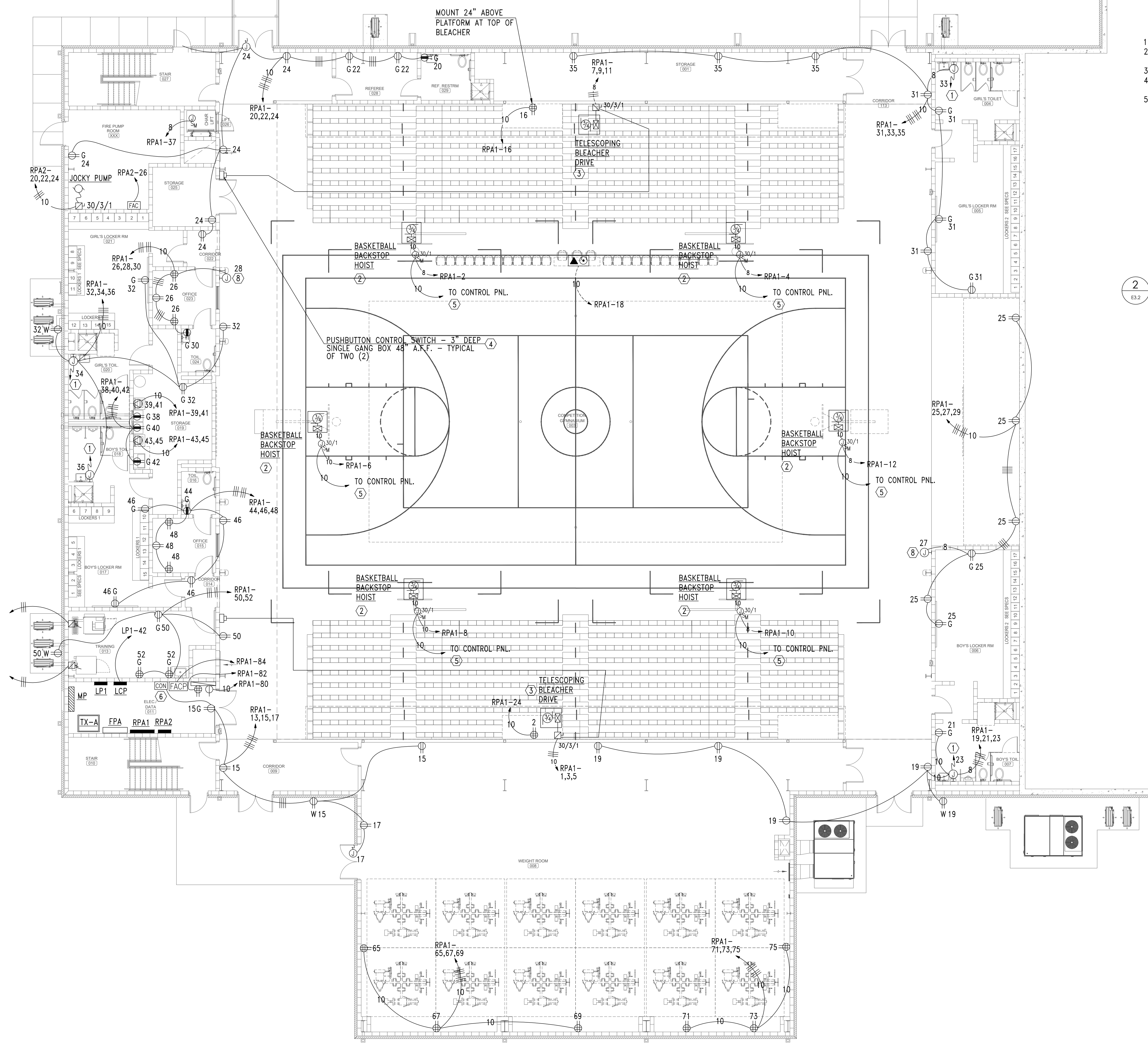
GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

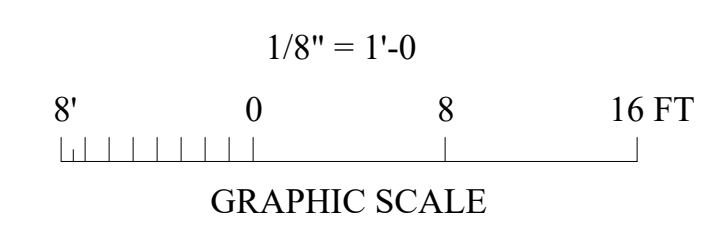


TYPICAL NORMAL POWER NAMEPLATE

2  
E3.2  
DETAIL - TYPICAL DISCONNECT NAMEPLATE  
NO SCALE



1  
E3.2  
LOWER LEVEL FLOOR PLAN - POWER  
SCALE: 1/8"=1'-0"

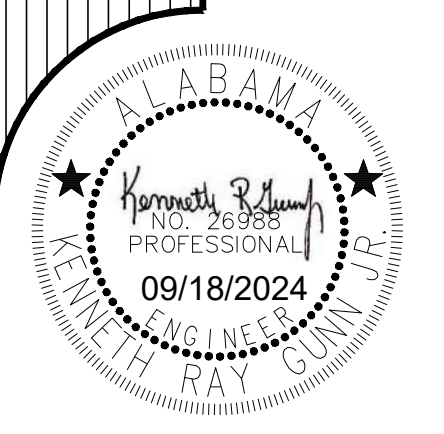


**GA** Gunn & Associates, P.C.  
Consulting Engineers  
3102 Highway 14  
Millbrook, AL 36054  
Tel: 334.285.1273

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GAJ24-180

NEW GYMNASIUM AT APPALACHIAN SCHOOL  
 FOR THE  
 BLOUNT COUNTY BOARD OF EDUCATION  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : LOWER LEVEL FLOOR PLAN POWER

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

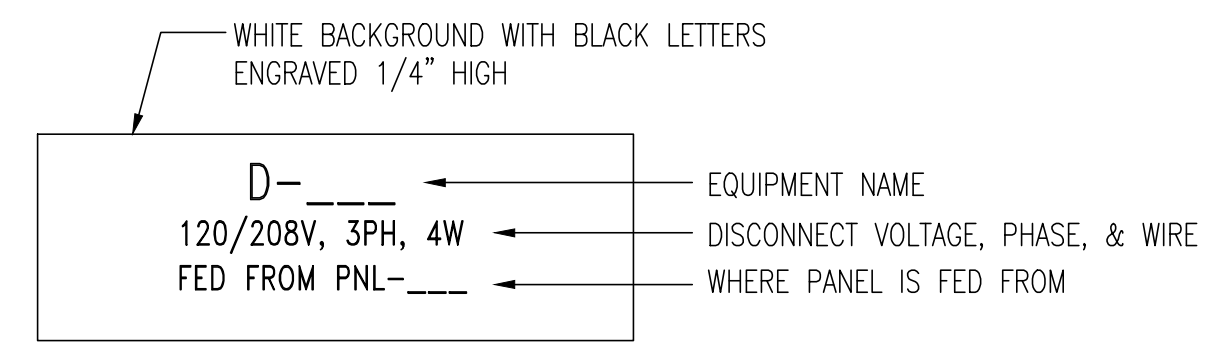
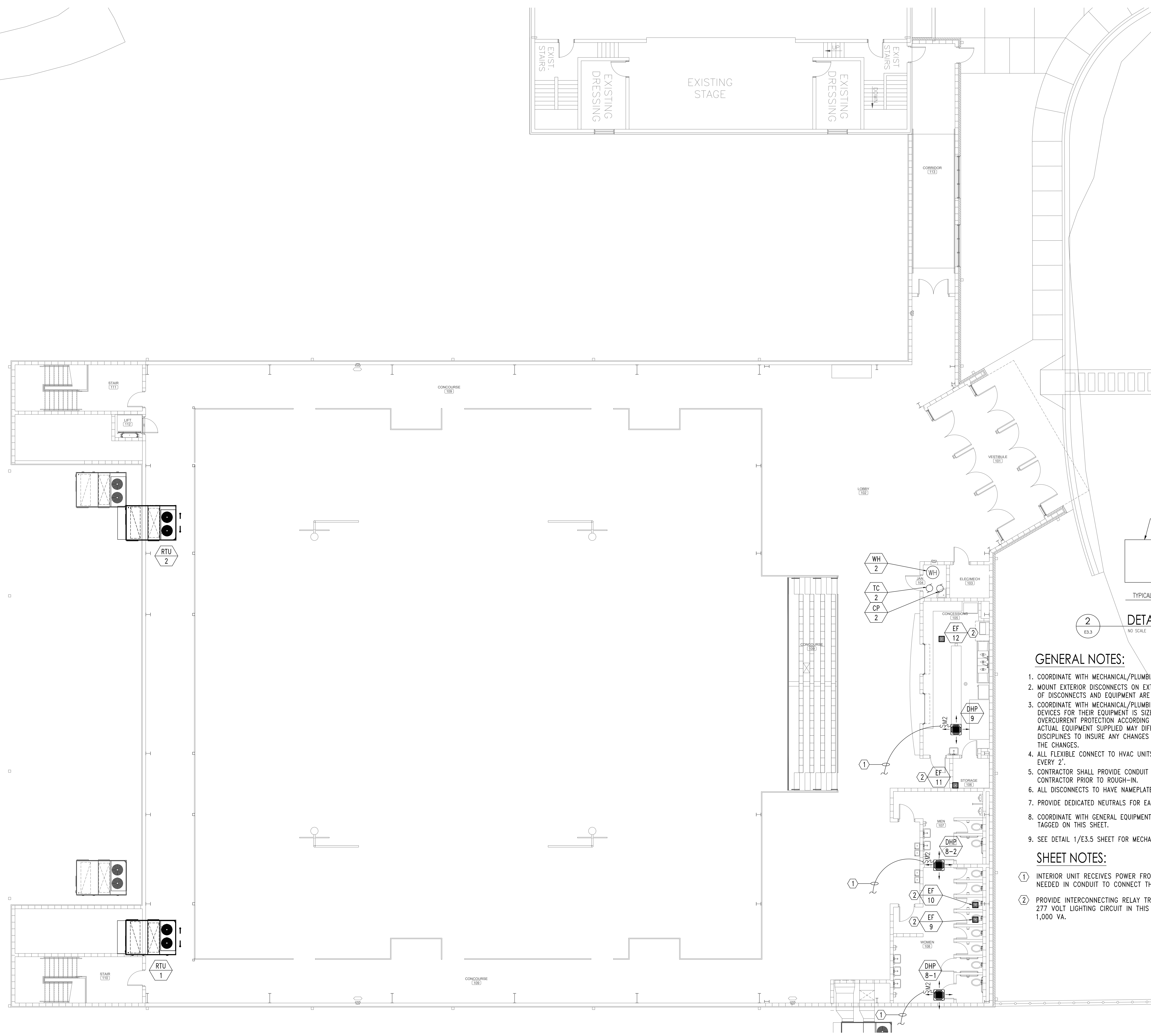
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REVISED DATE :

SHEET NO. : E3.2



15-2024-440-00 P1W



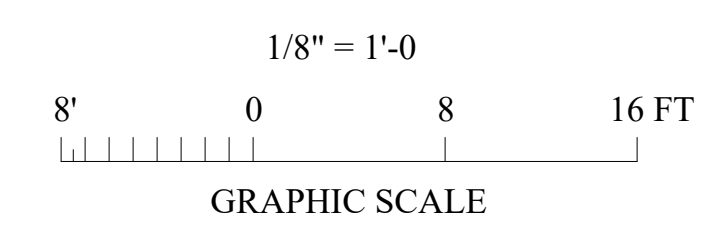
2 TYPICAL NORMAL POWER NAMEPLATE  
E3.3 NO SCALE

**GENERAL NOTES:**

- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
- COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
- ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
- CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTI-WIRE HOMERUN PER NEC.
- COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
- SEE DETAIL 1/E3.5 SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.

**SHEET NOTES:**

- INTERIOR UNIT RECEIVES POWER FROM THE EXTERIOR UNIT. PROVIDE INTERCONNECTING CIRCUITRY AS NEEDED IN CONDUIT TO CONNECT THE INTERIOR UNIT.
- PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277V LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.



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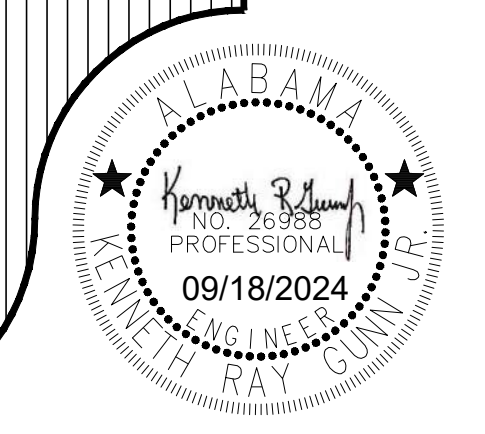
3102 Highway 14  
Millbrook, AL 36054  
Tel: 334.285.1273

1200 Providence Park, Suite 200  
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GA#24-180

1 MAIN LEVEL FLOOR PLAN - MECHANICAL POWER  
E3.3 SCALE: 1/8"=1'-0"

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SHEET TITLE : MAIN LEVEL FLOOR PLAN  
MECHANICAL POWER

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

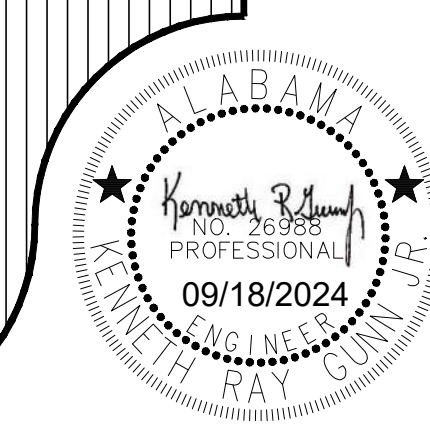
SHEET NO. : **E3.3**



NEW GYMNASIUM AT APPALACHIAN SCHOOL  
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SHEET TITLE : LOWER LEVEL FLOOR PLAN MECHANICAL POWER

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

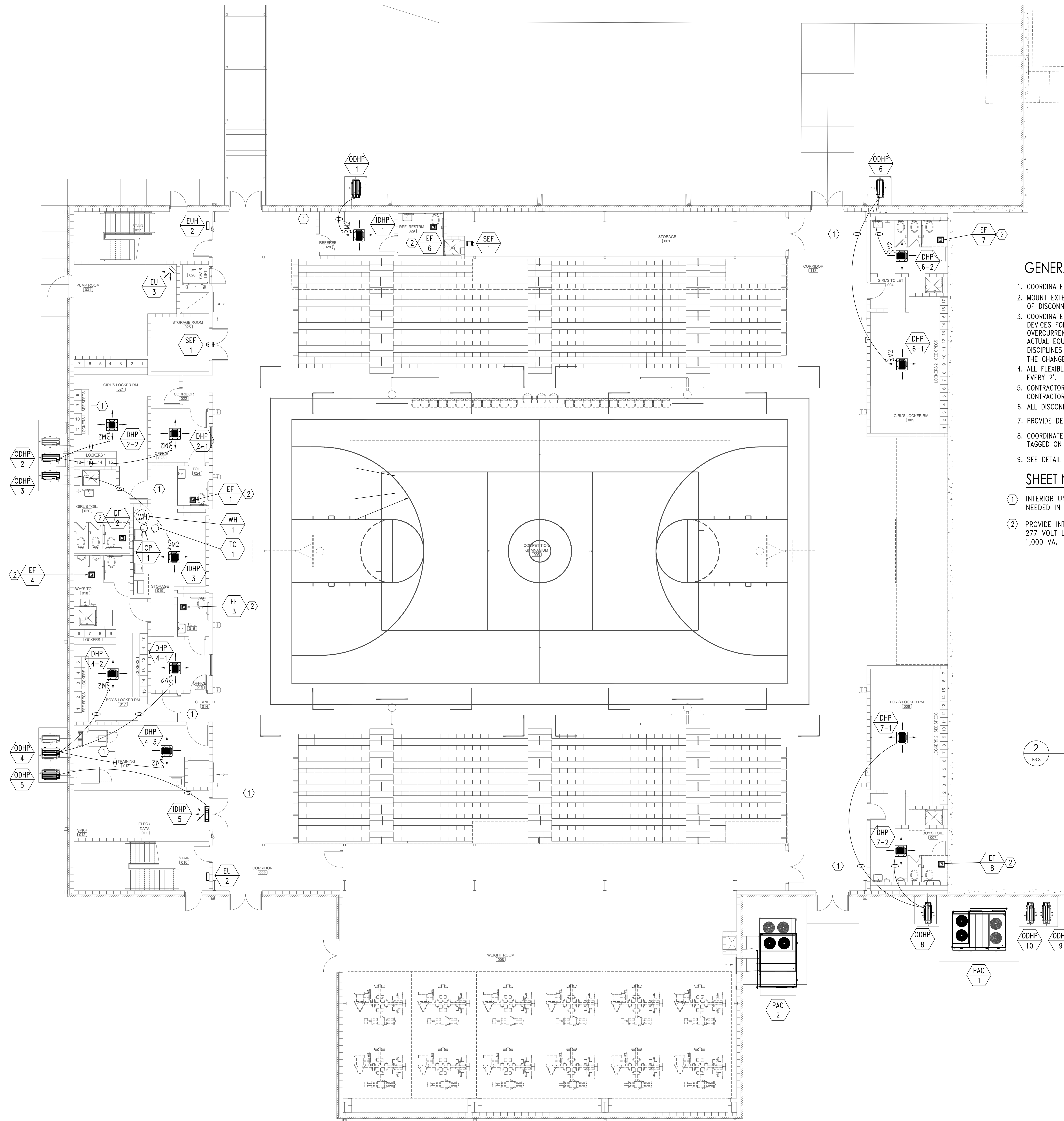
DATE : 09.18.24

REVISED DATE :

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REVISED DATE :

SHEET NO. : E3.4

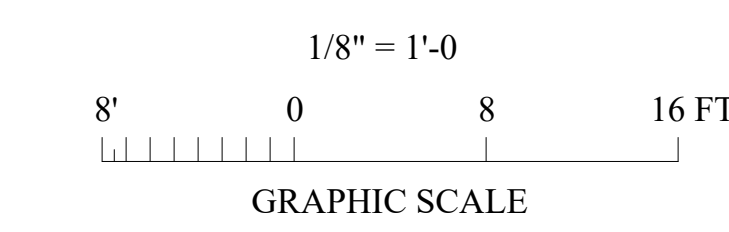
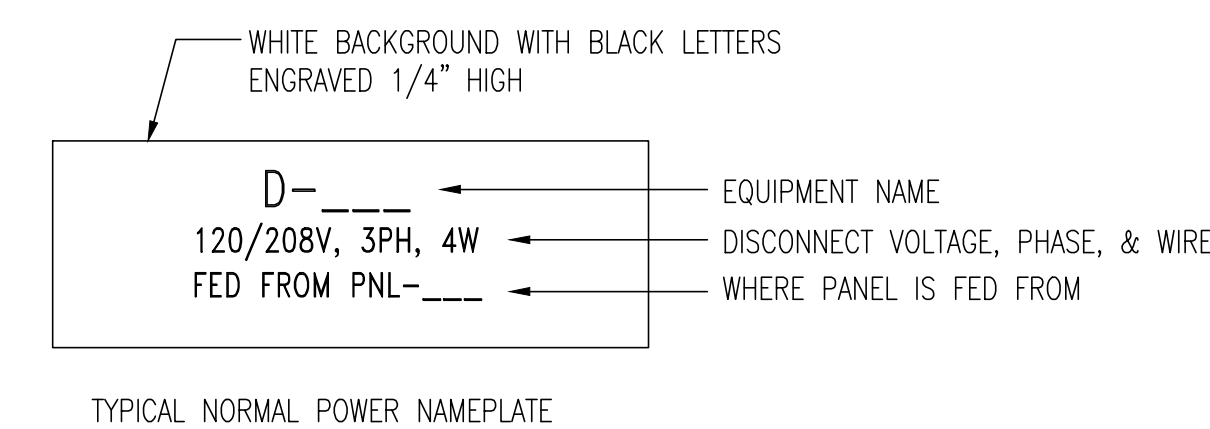


GENERAL NOTES:

- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
- COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
- ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
- CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
- COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
- SEE DETAIL 1/E3.5 SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.

SHEET NOTES:

- INTERIOR UNIT RECEIVES POWER FROM THE EXTERIOR UNIT. PROVIDE INTERCONNECTING CIRCUITRY AS NEEDED IN CONDUIT TO CONNECT THE INTERIOR UNIT.
- PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277 VOLT LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.



LOWER LEVEL FLOOR PLAN - MECHANICAL POWER  
SCALE: 1/8"=1'-0"

**GA** Gunn & Associates, P.C.  
Consulting Engineers  
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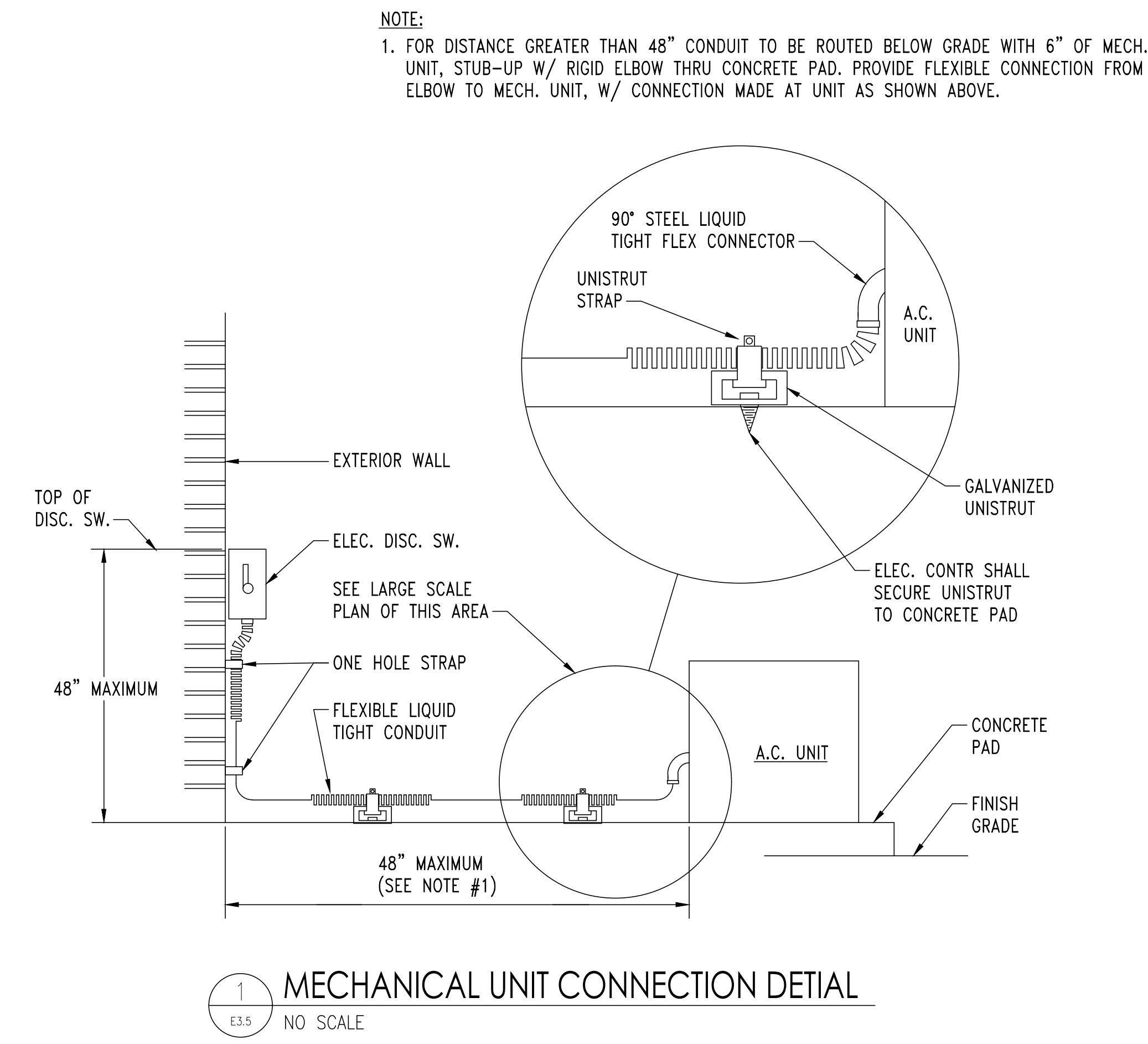
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GENERAL EQUIPMENT SCHEDULE									
EQUIPMENT MARK	EQUIPMENT DESCRIPTION	VOLTAGE/PHASE	ELECTRICAL CHARACTERISTICS			DISCONNECT	FUSE	HOMERUN	FEEDER
			HP	KW	AMPS				
CP-1	CIRC. PUMP	120V/1PH	---	0.200	---	TS	---	RPA1 - 63	2#12 & 1#12GRD - 3/4"C
CP-2	CIRC. PUMP	120V/1PH	---	0.200	---	TS	---	RPB1 - 30	2#12 & 1#12GRD - 3/4"C
EF-1	EXHASUT FANS	120V/1PH	---	0.026	---	TS	---	RPA1 - 55	2#12 & 1#12GRD - 3/4"C
EF-2	EXHASUT FANS	120V/1PH	---	0.118	---	TS	---	RPA1 - 55	2#12 & 1#12GRD - 3/4"C
EF-3	EXHASUT FANS	120V/1PH	---	0.026	---	TS	---	RPA1 - 55	2#12 & 1#12GRD - 3/4"C
EF-4	EXHASUT FANS	120V/1PH	---	0.118	---	TS	---	RPA1 - 55	2#12 & 1#12GRD - 3/4"C
EF-5	EXHASUT FANS	120V/1PH	---	0.041	---	TS	---	RPA1 - 57	2#12 & 1#12GRD - 3/4"C
EF-6	EXHASUT FANS	120V/1PH	---	0.039	---	TS	---	RPA1 - 57	2#12 & 1#12GRD - 3/4"C
EF-7	EXHASUT FANS	120V/1PH	---	0.118	---	TS	---	RPA1 - 57	2#12 & 1#12GRD - 3/4"C
EF-8	EXHASUT FANS	120V/1PH	---	0.118	---	TS	---	RPA1 - 57	2#12 & 1#12GRD - 3/4"C
EF-9	EXHASUT FANS	120V/1PH	---	0.118	---	TS	---	RPB1 - 33	2#12 & 1#12GRD - 3/4"C
EF-10	EXHASUT FANS	120V/1PH	---	0.102	---	TS	---	RPB1 - 33	2#12 & 1#12GRD - 3/4"C
EF-11	EXHASUT FANS	120V/1PH	---	0.102	---	TS	---	RPB1 - 33	2#12 & 1#12GRD - 3/4"C
EF-12	EXHASUT FANS	120V/1PH	---	0.035	---	TS	---	RPB1 - 33	2#12 & 1#12GRD - 3/4"C
EUH-1	ELECT. UNIT HEATER	208V/3PH	---	3	---	30/3/1	F	RPA2 - 1,3,5	3#12 & 1#12GRD - 3/4"C
EUH-2	ELECT. UNIT HEATER	208V/3PH	---	3	---	30/3/1	F	RPA2 - 7,9,11	3#12 & 1#12GRD - 3/4"C
EUH-3	ELECT. UNIT HEATER	208V/3PH	---	5	---	30/3/1	F	RPA2 - 13,15,17	3#10 & 1#10GRD - 3/4"C
IDHP-2-1, 2-2	INDOOR DUCT. UNIT	208V/1PH	---	---	3	30/2/1	F	RPA2 - 2,4	2#10 & 1#10GRD - 3/4"C
IDHP-4-1, 4-2, 4-3	INDOOR DUCT. UNIT	208V/1PH	---	---	3	30/2/1	F	RPA2 - 6,8	2#10 & 1#10GRD - 3/4"C
IDHP-6-1, 6-2	INDOOR DUCT. UNIT	208V/1PH	---	---	3	30/2/1	F	RPA2 - 10,12	2#10 & 1#10GRD - 3/4"C
IDHP-7-1, 7-2	INDOOR DUCT. UNIT	208V/1PH	---	---	3	30/2/1	F	RPA2 - 14,16	2#10 & 1#10GRD - 3/4"C
ODHP-1	DUCTLESS HEAT PUMP	208V/1PH	---	---	9	30/2/3R	F	RPA1 - 54,56	2#10 & 1#10GRD - 3/4"C
ODHP-2	DUCTLESS HEAT PUMP	208V/1PH	---	---	23	30/2/3R	F	RPA1 - 58,60	2#10 & 1#10GRD - 3/4"C
ODHP-3	DUCTLESS HEAT PUMP	208V/1PH	---	---	9	30/2/3R	F	RPA1 - 62,64	2#10 & 1#10GRD - 3/4"C
ODHP-4	DUCTLESS HEAT PUMP	208V/1PH	---	---	55	100/2/3R	F	RPA1 - 66,68	2#2 & 1#8GRD - 1 1/4"C
ODHP-5	DUCTLESS HEAT PUMP	208V/1PH	---	---	10	30/2/3R	F	RPA1 - 66,68	2#10 & 1#10GRD - 3/4"C
ODHP-6	DUCTLESS HEAT PUMP	208V/1PH	---	---	23	30/2/3R	F	RPA1 - 70,72	2#10 & 1#10GRD - 3/4"C
ODHP-7	DUCTLESS HEAT PUMP	208V/1PH	---	---	23	30/2/3R	F	RPA2 - 19,21	2#10 & 1#10GRD - 3/4"C
ODHP-8	DUCTLESS HEAT PUMP	208V/1PH	---	---	55	100/2/3R	F	RPA2 - 23,25	2#2 & 1#8GRD - 1 1/4"C
ODHP-9	DUCTLESS HEAT PUMP	208V/1PH	---	---	25	60/2/3R	F	RPA2 - 27,29	2#10 & 1#10GRD - 3/4"C
PAC-1	PACK. HEAT PUMP	480V/3PH	---	---	123	200/3/3R	F	MP - 7,9,11	3#10 & 1#8GRD - 2"C
PAC-2	PACK. HEAT PUMP	480V/3PH	---	---	97	100/3/3R	F	MP - 13,15,17	3#1 & 1#8GRD - 2"C
RTU-1	PACK. HEAT PUMP	480V/3PH	---	---	151	200/3/3R	F	MP - 2,4,6	3#20 & 1#8GRD - 2"C
RTU-2	PACK. HEAT PUMP	480V/3PH	---	---	47	60/3/3R	F	MP - 8,10,12	3#20 & 1#8GRD - 2"C
SEF-1	SUPPLY FAN	120V/1PH	---	---	0.600	TS	---	RPA1 - 59	2#12 & 1#12GRD - 3/4"C
SEF-2	SUPPLY FAN	120V/1PH	---	---	0.600	TS	---	RPA1 - 59	2#12 & 1#12GRD - 3/4"C
TC-1	TIME CLOCK	120V/1PH	---	---	0.200	TS	---	RPA1 - 63	2#12 & 1#12GRD - 3/4"C
TC-2	TIME CLOCK	120V/1PH	---	---	0.200	TS	---	RPB1 - 30	2#12 & 1#12GRD - 3/4"C
WH-1	GAS	120V/1PH	---	---	0.200	TS	---	RPA1 - 61	2#12 & 1#12GRD - 3/4"C
WH-2	ELECTRIC WATER HEATER	208V/1PH	---	---	6	60/2/1	F	RPB1 - 26,28	2#8 & 1#10GRD - 1"C

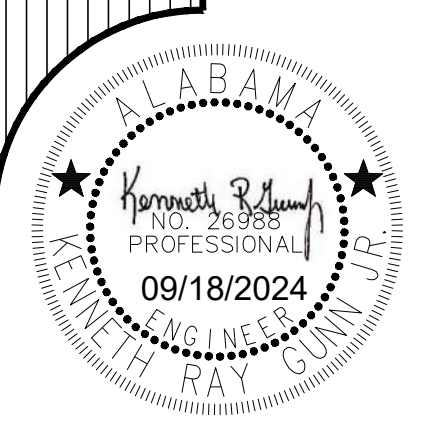
NOTES:  
1. COORDINATE WITH MANUFACTURER'S OUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.  
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.  
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.  
4. "NP" - NON-FUSED  
5. "F" - FUSED  
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)  
7. PROVIDE "TSZ" FOR INSIDE UNIT THAT IS CONTROLLED BY OUTSIDE UNIT. TYPICAL FOR ALL CASSETTE UNITS.  
8. "WP" - WEATHERPROOF ENCLOSURE.  
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



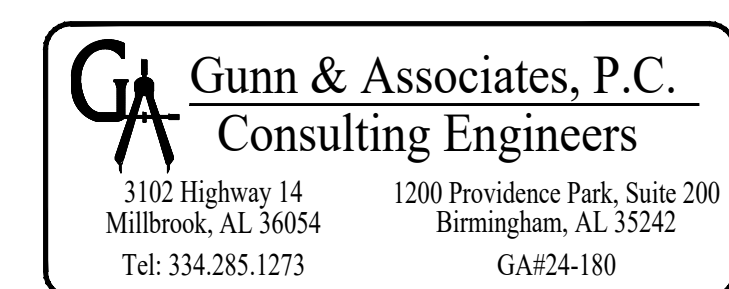
NOTE:  
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT. STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
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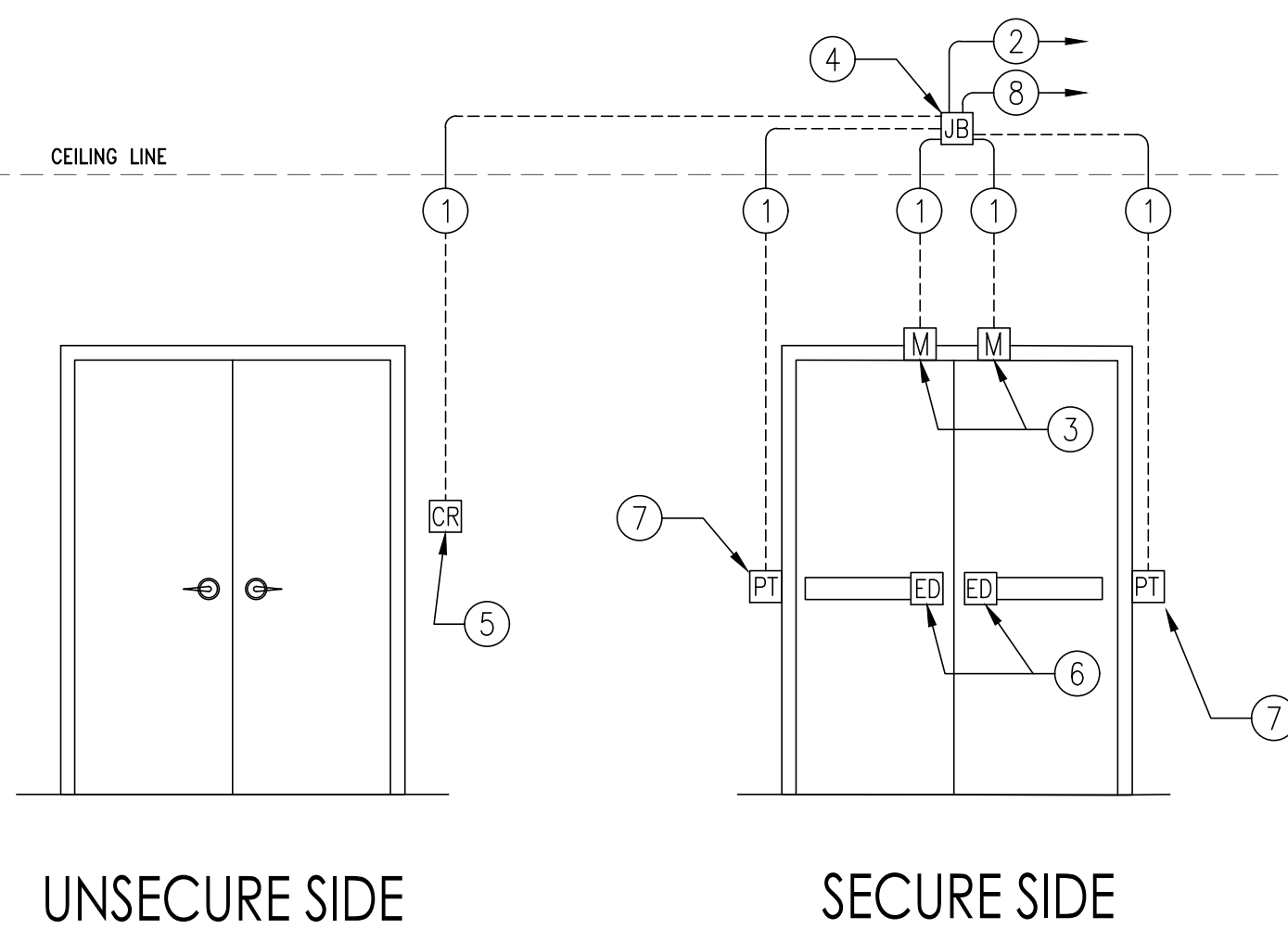
SHEET TITLE : GENERAL EQUIPMENT SCHEDULE  
 MCKEE JOB # : 24-169  
 DRAWN BY : J. TILLERY  
 DATE : 09.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :



SHEET NO. : **E3.5**



CONTRACTOR SHALL COORDINATE CONDUIT ROUGH-IN LOCATIONS WITH OWNER'S ACCESS CONTROL VENDOR PRIOR TO ROUGH-IN OF DOORS AND ADJUST CONDUIT AS NEEDED.

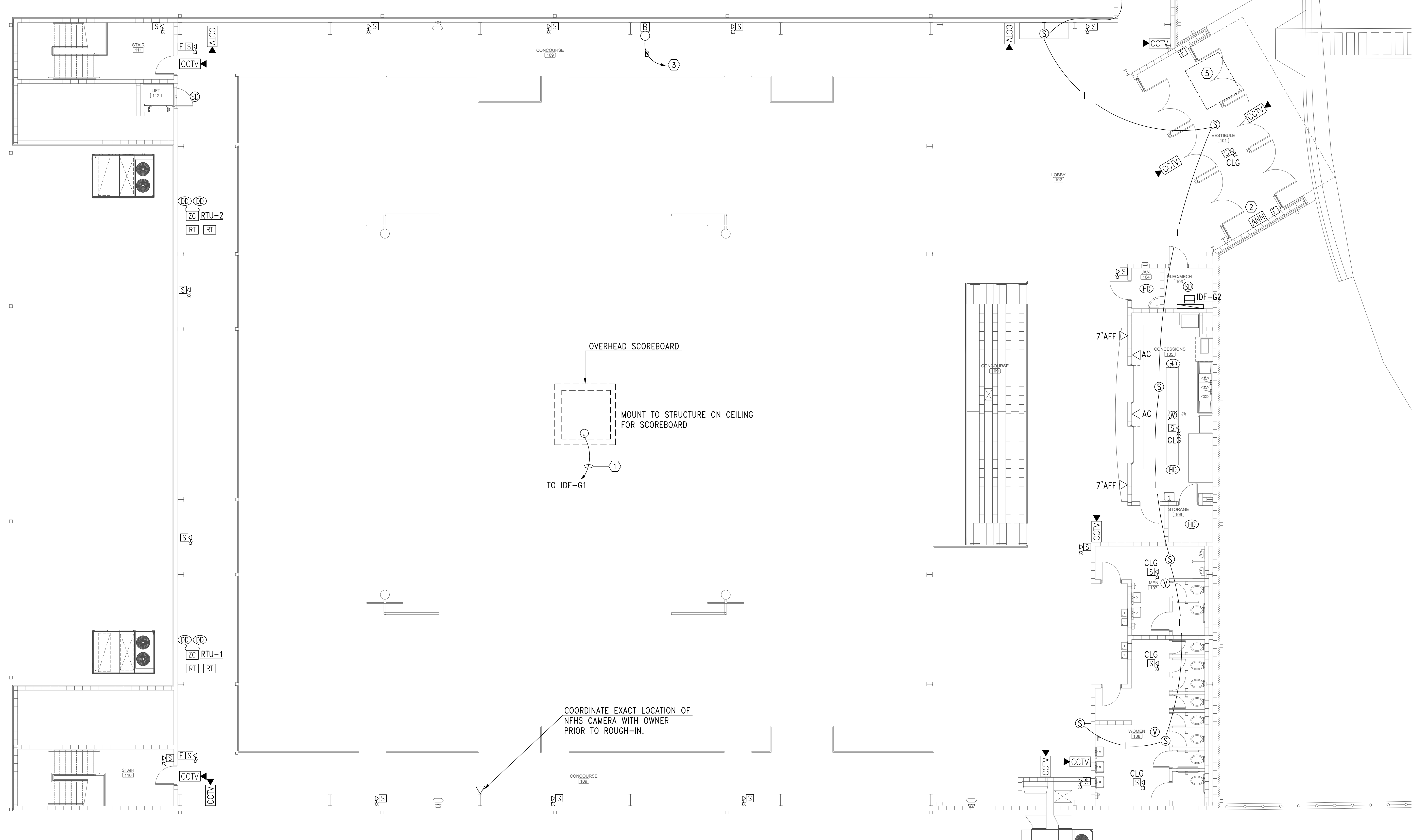


**DOOR/SECURITY/ACCESS HARDWARE KEY**

- ① 3/4" CONDUIT TO JUNCTION BOX.
- ② 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.
- ③ RECESSED DOOR POSITION SWITCH. FRAME TO BE PREPPED BY DOOR SUPPLIER.
- ④ 4 SQUARE JUNCTION BOX MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
- ⑤ CARD READER. OWNER PROVIDED DEVICE CONTRACTOR PROVIDES RACEWAY SINGLE GANG JUNCTION BOX MOUNTED 48" A.F.F.
- ⑥ EXIT DEVICE WITH LATCH RETRACTION AND INTEGRAL REQUEST - TO - EXIT SWITCH.
- ⑦ POWER TRANSFER HINGE. (BY OTHERS). RACEWAY BY CONTRACTOR
- ⑧ PROVIDE (1) CAT 6 CONNECTION BACK TO NEAREST IDF WITH 20' SLACK AT DOOR.
- ⑨ INTERCOM/CAMERA. OWNER PROVIDED DEVICE CONTRACTOR PROVIDES RACEWAY. SINGLE GANG JUNCTION BOX MOUNTED 48" A.F.F.

**A** TYPICAL DOOR TYPE "A"  
E4.1 NO SCALE

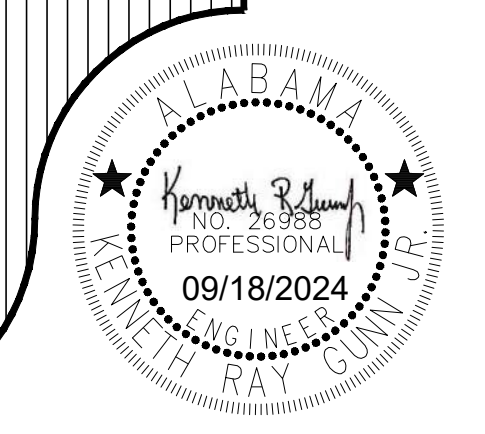
- SHEET NOTES:**
- ① PROVIDE TWO (2) 1 1/4" CONDUITS WITH PULL STRING TO IDF-G1.
  - ② PROVIDE FLUSH MOUNTING FOR ANNUNCIATOR.
  - ③ CONNECT NEW CLASSBELL TO THE LATHEN BELL SYSTEM IN MAIN OFFICE. PROVIDE 120V CONNECTION FROM NEAREST RECEPTACLE.
  - ④ CONTRACTOR SHALL CONNECT NEW INTERCOM SPEAKERS BACK TO EXISTING TELECENTER INTERCOM CONSOLE. SEE 1/E1.1 FOR APPROXIMATE LOCATION FOR INTERCOM CONSOLE.
  - ⑤ ROUGH-IN SECURITY DOOR PER DETAIL A SHEET E4.1.



**1** MAIN LEVEL FLOOR PLAN - AUXILIARY  
E4.1 SCALE: 1/8"=1'-0"

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SHEET TITLE : MAIN LEVEL FLOOR PLAN  
AUXILIARY

MCKEE JOB # : 24-169

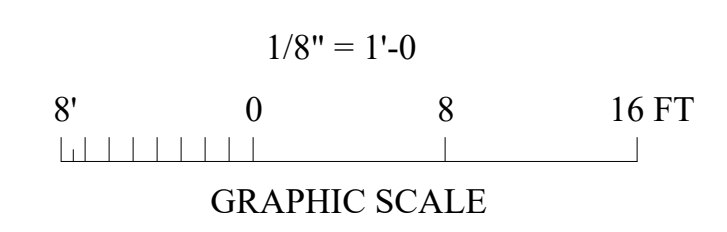
DRAWN BY : J. TILLERY

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1200 Providence Park, Suite 200  
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GA#24-180

SHEET NO. : **E4.1**

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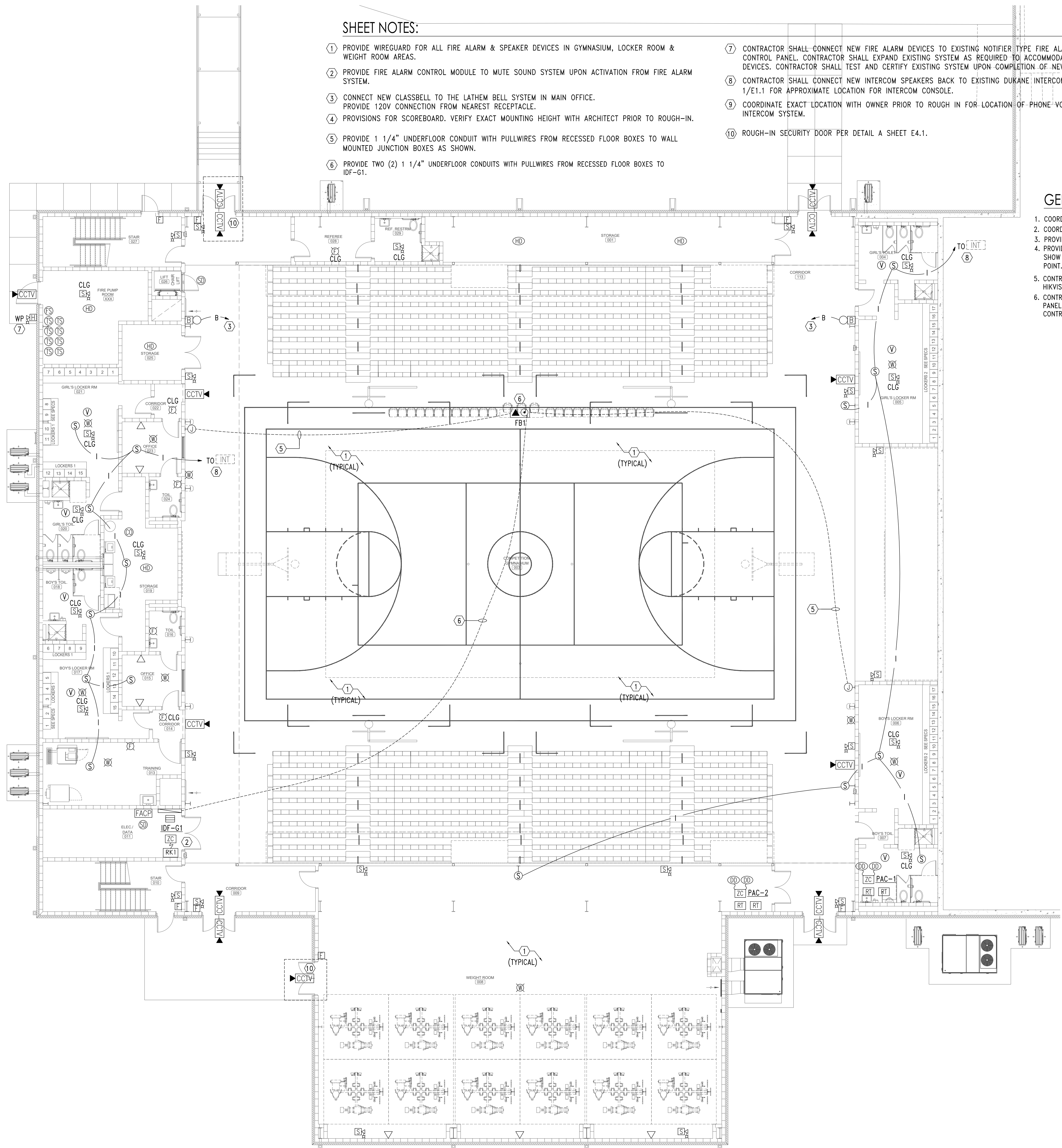


**SHEET NOTES:**

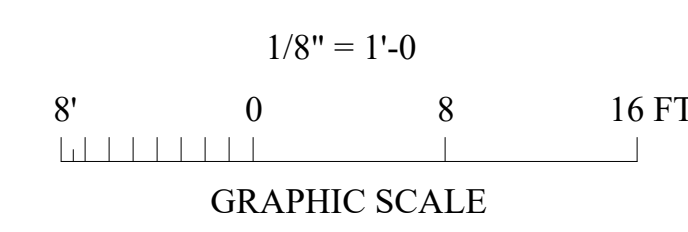
- ① PROVIDE WIREGUARD FOR ALL FIRE ALARM & SPEAKER DEVICES IN GYMNASIUM, LOCKER ROOM & WEIGHT ROOM AREAS.
- ② PROVIDE FIRE ALARM CONTROL MODULE TO MUTE SOUND SYSTEM UPON ACTIVATION FROM FIRE ALARM SYSTEM.
- ③ CONNECT NEW CLASSBELL TO THE LATHEM BELL SYSTEM IN MAIN OFFICE. PROVIDE 120V CONNECTION FROM NEAREST RECEPTACLE.
- ④ PROVISIONS FOR SCOREBOARD. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑤ PROVIDE 1 1/4" UNDERFLOOR CONDUIT WITH PULLWIRES FROM RECESSED FLOOR BOXES TO WALL MOUNTED JUNCTION BOXES AS SHOWN.
- ⑥ PROVIDE TWO (2) 1 1/4" UNDERFLOOR CONDUITS WITH PULLWIRES FROM RECESSED FLOOR BOXES TO IDF-G1.
- ⑦ CONTRACTOR SHALL CONNECT NEW FIRE ALARM DEVICES TO EXISTING NOTIFIER TYPE FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL EXPAND EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. CONTRACTOR SHALL TEST AND CERTIFY EXISTING SYSTEM UPON COMPLETION OF NEW WORK.
- ⑧ CONTRACTOR SHALL CONNECT NEW INTERCOM SPEAKERS BACK TO EXISTING DUKANE INTERCOM CONSOLE. SEE 1/E1.1 FOR APPROXIMATE LOCATION FOR INTERCOM CONSOLE.
- ⑨ COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN FOR LOCATION OF PHONE VOICE FOR INTERCOM SYSTEM.
- ⑩ ROUGH-IN SECURITY DOOR PER DETAIL A SHEET E4.1.

**GENERAL NOTES:**

1. COORDINATE WITH CORRESPONDING RISER DIAGRAMS.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. PROVIDE ALL MOUNTING ACCESSORIES AS NEEDED TO MOUNT SPEAKERS AT LOCATIONS SHOWN.
4. PROVIDE A GREEN DOT STICKER ON THE CEILING GRID UNDER EACH WIRELESS ACCESS POINT LOCATION TO SHOW LOCATION TO THE IT STAFF. PROVIDE AT LEAST 15' OF COILED CAT6 SLACK AT EACH WIRELESS ACCESS POINT.
5. CONTRACTOR SHALL UTILIZE NEW CONDUITS PROVIDED ON SITE PLAN TO BRING NEW CABLING FROM EXISTING HIKVISION CCTV CONSOLE SYSTEM AND LB INTO NEW GYM BUILDING AS REQUIRED FOR FUTURE CCTV.
6. CONTRACTOR SHALL CONNECT ALL FIRE ALARM DEVICES TO EXISTING NOTIFIER TYPE FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL EXPAND EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. CONTRACTOR SHALL TEST AND CERTIFY EXISTING SYSTEM UPON COMPLETION OF NEW WORK.



**LOWER LEVEL FLOOR PLAN - AUXILIARY**  
SCALE: 1/8"=1'-0"

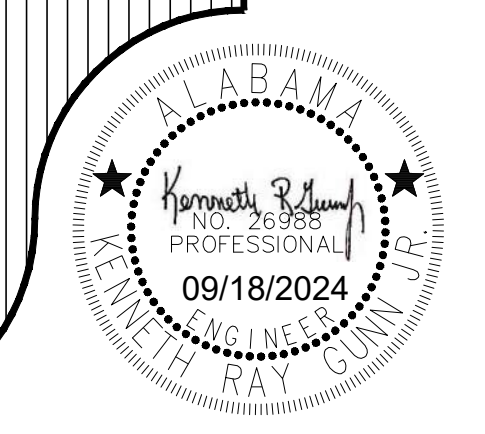


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**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : LOWER LEVEL FLOOR PLAN  
AUXILIARY

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **E4.2**







PANEL - MP												
TYPE: 100 AMP MAIN LUG AIC: 65,000 AMPERES MOUNTED SURFACE VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE												
CIRCUIT DIRECTORY	(VA) PER PHASE			CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C				PHASE A	PHASE B	PHASE C			
PANEL LP1	12,010	7,525		125	3	1	2	175	52,283	52,283		RTU-1
PAC-1	27,257	27,257	6,477	125	3	5	6	175	52,283	52,283		RTU-2
PAC-2	21,495	21,495	21,495	100	3	13	14	300	70,904	66,228	69,565	TX-A
SPARE				225	3	17	18					BUSSED SPACE
SPARE				100	3	23	24					BUSSED SPACE
BUSSED SPACE				125	3	29	30	125				BUSSED SPACE
SUB TOTAL (VA)	60,762	56,277	55,229			3	35	36	175,470	170,794	174,131	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	236,232 (VA)			NOTES:								
TOTAL LOAD PHASE B:	227,071 (VA)			1. PROVIDE WITH INTEGRAL TVSS WITH 120,000 AMPS PER MODE PROTECTION.								
TOTAL LOAD PHASE C:	229,360 (VA)			2. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAIL.								
TOTAL LOAD:	692,662 (VA) = 834 AMPS			3. PROVIDE ARC FAULT LABEL PER DETAIL.								
				4. PROVIDE (GF) SHUNT TRIP MAIN CIRCUIT BREAKER.								

PANEL - LP1												
TYPE: 125 AMP MAIN LUG AIC: 65,000 AMPERES MOUNTED SURFACE VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE												
CIRCUIT DIRECTORY	(VA) PER PHASE			CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C				PHASE A	PHASE B	PHASE C			
LIGHTS	3,253			20	1	1	2	20	3,710			GYM LIGHTS
LIGHTS		3,480		20	1	3	4	20	3,710			GYM LIGHTS
WEIGHT ROOM LIGHTS			2,167	20	1	5	6	20			3,710	GYM LIGHTS
EXTERIOR LIGHTS	1,475			20	1	7	8	20	3,572			WALKING TRACK LTS
EXTERIOR LIGHTS		335		20	1	9	10					BUSSED SPACE
SPARE				20	1	11	12					BUSSED SPACE
SPARE				20	1	13	14					BUSSED SPACE
SPARE				20	1	15	16					BUSSED SPACE
SPARE				20	1	17	18					BUSSED SPACE
SPARE				20	1	19	20					BUSSED SPACE
SPARE				20	1	21	22					BUSSED SPACE
SPARE				20	1	23	24					BUSSED SPACE
SPARE				20	1	25	26					BUSSED SPACE
SPARE				20	1	27	28					BUSSED SPACE
SPARE				20	1	29	30					BUSSED SPACE
SPARE				20	1	31	32					BUSSED SPACE
SPARE				20	1	33	34					BUSSED SPACE
SPARE				20	1	35	36					BUSSED SPACE
SPARE				20	1	37	38					BUSSED SPACE
SPARE				20	1	39	40					BUSSED SPACE
SPARE				20	1	41	42	20	1			LOP
SUB TOTAL (VA)	4,728	3,815	2,167			20	1	41	7,282	3,710	4,310	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	12,010 (VA)			NOTES:								
TOTAL LOAD PHASE B:	7,525 (VA)			1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:	6,477 (VA)			2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:	26,012 (VA) = 31 AMPS											

PANEL - FPA												
TYPE: 800 AMP MAIN CIRCUIT BREAKER AIC: 22,000 AMPERES MOUNTED SURFACE VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE												
CIRCUIT DIRECTORY	(VA) PER PHASE			CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C				PHASE A	PHASE B	PHASE C			
PANEL RPA1	41,467			400	3	1	2	225	17,733	20,560		PANEL RPB1
		37,107				3	4					
PANEL RPA2	11,704	8,561		225	3	5	6	225		15,833		SPARE
			11,115			3	11	12				
BUSSED SPACE				225	3	13	14	100				SPARE
						15	16					
SPARE				100	3	17	18					BUSSED SPACE
						19	20	100				
BUSSED SPACE				100	3	23	24					BUSSED SPACE
						19	20	100				
SUB TOTAL (VA)	53,171	45,668	5,000			3	23	24	17,733	20,560	15,833	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	70,904 (VA)			NOTES:								
TOTAL LOAD PHASE B:	66,228 (VA)			1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:	69,565 (VA)			2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:	206,697 (VA) = 574 AMPS											

PANEL - RPA2												
TYPE: 225 AMP MAIN LUG AIC: 22,000 AMPERES MOUNTED SURFACE VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE												
CIRCUIT DIRECTORY	(VA) PER PHASE			CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C				PHASE A	PHASE B	PHASE C			
EUH-1	1,000			20	1	1	2	20	153			IDHP-2-1, 2-2
		1,000				3	4	20		153		
EUH-2	1,000		1,000	20	3	5	6	20		200		IDHP-4-1, 4-2, 4-3
		1,000				9	10	20		153		IDHP-6-1, 6-2
EUH-3	1,666		1,000	30	3	11	12	20		153		IDHP-7-1, 7-2
		1,666	1,000			15	16	20		153		SPARE
ODHP-7	1,913	1,913		30	3	17	18	20	1	443	443	JOCKY PUMP
ODHP-8	4,576		4,576	90	2	21	22					
ODHP-9		2,080		40	2	25	26	20	1	600		FIRE ALARM PUMP CONT
			2,080			27	28					BUSSED SPACE
SPARE				20	2	29	30					BUSSED SPACE
SPARE				20	1	31	32					BUSSED SPACE
SPARE				20	1	33	34					BUSSED SPACE
SPARE				20	1	35	36					BUSSED SPACE
SPARE				20	1	37	38					BUSSED SPACE
SPARE				20	1	39	40					BUSSED SPACE
SPARE				20	1	41	42					BUSSED SPACE
SUB TOTAL (VA)	10,155	7,659	10,322			1	14	20	1,549	902	796	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	11,704 (VA)			NOTES:								
TOTAL LOAD PHASE B:	8,561 (VA)			1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:	11,115 (VA)			2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:	31,382 (VA) = 87 AMPS											

PANEL - RPA1												
TYPE: 400 AMP MAIN LUG AIC: 22,000 AMPERES MOUNTED SURFACE VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE												
CIRCUIT DIRECTORY	(VA) PER PHASE			CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C				PHASE A	PHASE B	PHASE C			
TELE BLEACHER	2,880			30	3	1	2	30	2,880	2,880		B.B. HOIST
		2,880				3	4	30				B.B. HOIST
TELE BLEACHER	2,880			30	3	5	6	30	2,880	2,880		B.B. HOIST
		2,880				7	8	30				B.B. HOIST
B.B. HOIST CON	600			30	1	13	14	20	1,200	2,880		PLAT FORM RECEPTACLE
RECEPTACLE	1,200			20	1	15	16	20	1,200	1,200		PLAT FORM RECEPTACLE
RECEPTACLE	1,200			20	1	17	18	20	1,200	1,200		SCORE TABLE
RECEPTACLE	1,200			20	1	19	20	20	1,200			RECEPTACLE
RECEPTACLE	1,200			20	1	21	22	20	1,200			RECEPTACLE
HAND DRYER				20	1	23	24	20	1,200			RECEPTACLE
RECEPTACLE	1,200			20	1	25	26	20	1,200			RECEPTACLE
CLOCK SHOT				20	1	27	28	20	1,200			RECEPTACLE
TROPHY CASE LTS				20	1	29	30	20	1,300			RECEPTACLE
RECEPTACLE	1,200			20	1	31	32	20	1,300			HAND DRYER
HAND DRYER				20	1	33	34	20	1,200			HAND DRYER
RECEPTACLE	1,200			20	1	35	36	20	1,200			RECEPTACLE
CHAIR LIFT	2,880			30	1	37	38	20	1,300			WASHER
DRYER				30	3	39	40	20	1,200			WASHER
COMMERCIAL DRYER				2	41	42	20	1	1,200	1,200		ICE MACHINE
						43	44	20	1,200			RECEPTACLE
						45	46	20	1,200			RECEPTACLE
						47	48	20	1,300			RECEPTACLE
COMMERCIAL WASHER				49	50	20	1	1,200				RECEPTACLE
				51	52	20	1	1,200				RECEPTACLE
				53	54	20	1					ODHP-A1
EF-1,2,3,4	400			20	1	55	56	20	749			ODHP-A2
EF-5,6,7,8				20	1	57	58	30		1,913	1,913	ODHP-A3
SIF-1 & SIF-2				20	1	59	60	20	2			ODHP-A4
WH-1 GAS	600		144	20	1	61	62	20	749			ODHP-A5
CP-1 & TC-1				20	1	63	64	20	749			ODHP-A6
RECEPTACLE	1,200			20	1	65	66	90	4,576			ODHP-A6
RECEPTACLE	1,200			20	1	67	68	20	4,576			ODHP-A6
RECEPTACLE	1,200			20	1	69	70	20	832			ODHP-A6
RECEPTACLE	1,200			20	1	71	72	20	832			ODHP-A6
RECEPTACLE	1,200			20	1	73	74	30	1,913	1,913		ODHP-A6
RECEPTACLE	1,200			20	1	75	76	20	1,913	1,913		SPARE
SPARE				20	1	77	78	20	1	2,880		TBB UPS
SPARE				20	1	79	80	30	1	600		TBB
SPARE				20	1	81	82	20	1	600		FACP (NOTE 3)
SPARE				20	1	83	84	20	1	600		SUB TOTAL (VA)
SUB TOTAL (VA)	16,240	16,940	15,784									

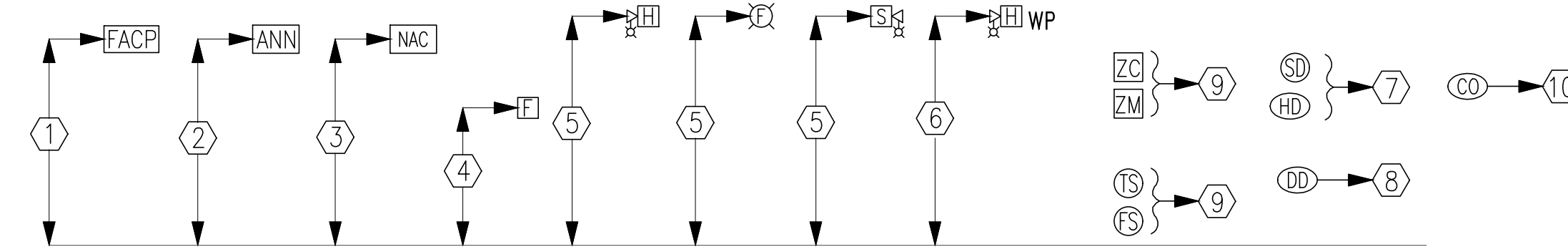


**FIRE ALARM SYSTEM NOTES:**

- 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.
- INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
- ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
- 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
- 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.
- A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
- THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
- PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
- PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
- ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
- PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
- FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
- IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
- CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
- PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
- "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP" DENOTES WEATHERPROOF DEVICE.
- SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
- CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

**FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:**

- MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
- MOUNT ANNUCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUCIATOR UNLESS OTHERWISE NOTED.
- REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
- MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
- ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
- WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
- SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3- FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
- MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.

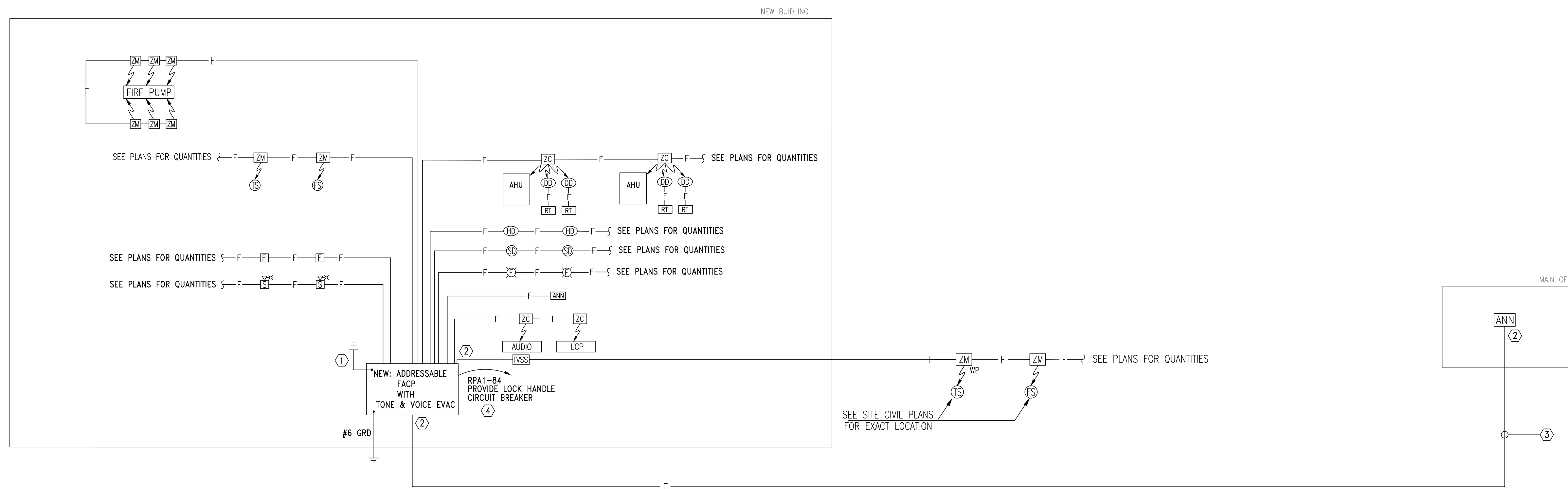


**2 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS**  
E6.1 NO SCALE

**SHEET NOTES:**

- PROVIDE A UL LISTED CELLULAR COMMUNICATOR IN THE NEW FIRE ALARM PANEL. PROVIDE TWO YEARS OF CELLULAR MONITORING FROM THE DATE OF FINAL ACCEPTANCE.
- PROVIDE SURGE SUPPRESSION ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
- PROVIDE FIRE ALARM ANNUCIATOR IN THE MAIN OFFICE OF APPALACHIAN HIGH SCHOOL CONNECTED TO THE FACP IN THE NEW GYMNASIUM. UTILIZE INTERCONNECTING CONDUIT SHOWN ON SHEET E1.1.
- PROVIDE TVSS PROTECTION ON ALL INCOMING POWER FEEDS.

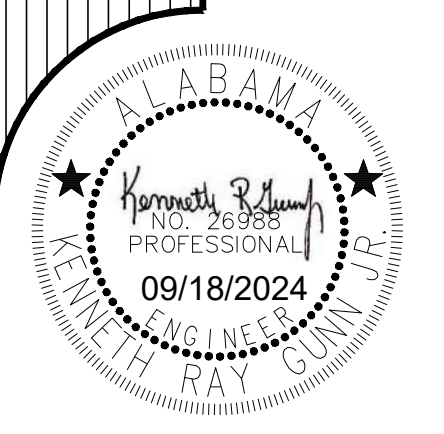
EMERGENCY RADIO SYSTEM	
PROVIDE EMERGENCY RESPONDER RADIO SYSTEM TO MEET 2021 INTERNATIONAL FIRE CODE WITHIN THE BUILDING. SYSTEM SHALL MEET UL2524 AND COMPLY WITH IBC 2021 510.	
BASE BID:	
1.	ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST AT (5) LOCATIONS ON SITE WITHIN PROPOSED BUILDING FOOTPRINT. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE.
2.	PROVIDE SHOP DRAWING FOR A DISTRIBUTION ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE TO MEET 510.4. SHOP DRAWINGS SHALL INCLUDE AMPLIFIER INFORMATION, ANTENNA LOCATIONS/COVERAGE, BATTERY DATA.
3.	ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH NYLON PULL STRINGS AS REFLECTED ON DRAWINGS. CONDUIT SHALL BE INSTALLED AS BASED BID AND ARE NOT ALLOWED FOR USE WITH ANY OTHER SYSTEM. ALL EMERGENCY RESPONDER RADIO SYSTEM CONDUIT SHALL BE MARKED WITH "BDA".
4.	ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST WITHIN THE BUILDING AT 80% COMPLETION OF CONSTRUCTION. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE. IF SIGNAL STRENGTH AT ANY PORTION OF THE BUILDING FALLS BELOW REQUIREMENTS OF IFC 510 AN EMERGENCY RESPONDER RADIO SYSTEM SHALL BE PROVIDED. SEE ALLOWANCE FOR ADDITIONAL INFORMATION.
ALLOWANCE:	
1.	IF THE TEST SIGNAL IS DEEMED NOT TO BE ACCEPTABLE THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING BY ALLOWANCE: PROVIDE AMPLIFIER, ANTENNA AND ALL ADDITIONAL REQUIRED SYSTEM PARTS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS (SEE ITEM 2 UNDER BASE BID ABOVE) AND IFC 2021 510.5. THIS INCLUDES OBTAINING PERMIT PER SECTION 510.3. THE SYSTEM SHALL BE RETESTED BY THE TESTING AGENCY PER 510.5.3 AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHAL FOR ACCEPTANCE.



**1 FIRE ALARM RISER DIAGRAM**  
E6.1 NO SCALE

**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
 FOR THE  
**BLOUNT COUNTY BOARD OF EDUCATION**  
 ONEONTA, ALABAMA

**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE: FIRE ALARM RISER DIAGRAM, DETAILS & NOTES

MCKEE JOB #: 24-169

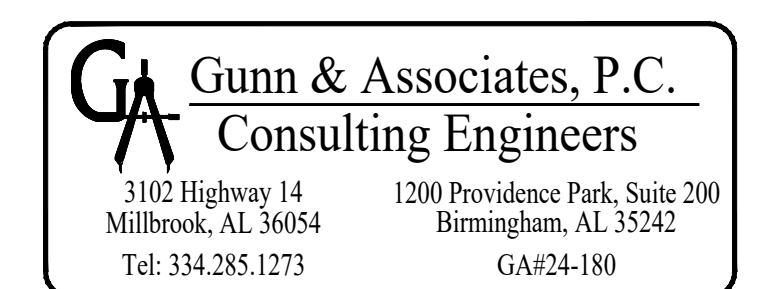
DRAWN BY: J. TILLERY

DATE: 09.18.24

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REVISED DATE:

REVISED DATE:



SHEET NO.: **E6.1**



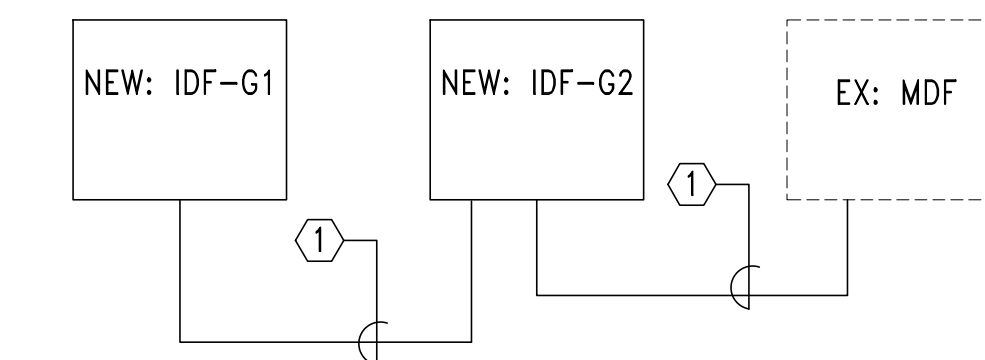
DATA CABLING & KEYSTONE COLOR CODE REQUIREMENT	
DATA CABLING	BLUE
WIRELESS ACCESS CABLING	GREEN
SECURITY CAMERA AND DOORS CABLING	RED
VAPE SENSORS	RED

**RISER DIAGRAM KEYED NOTES:**

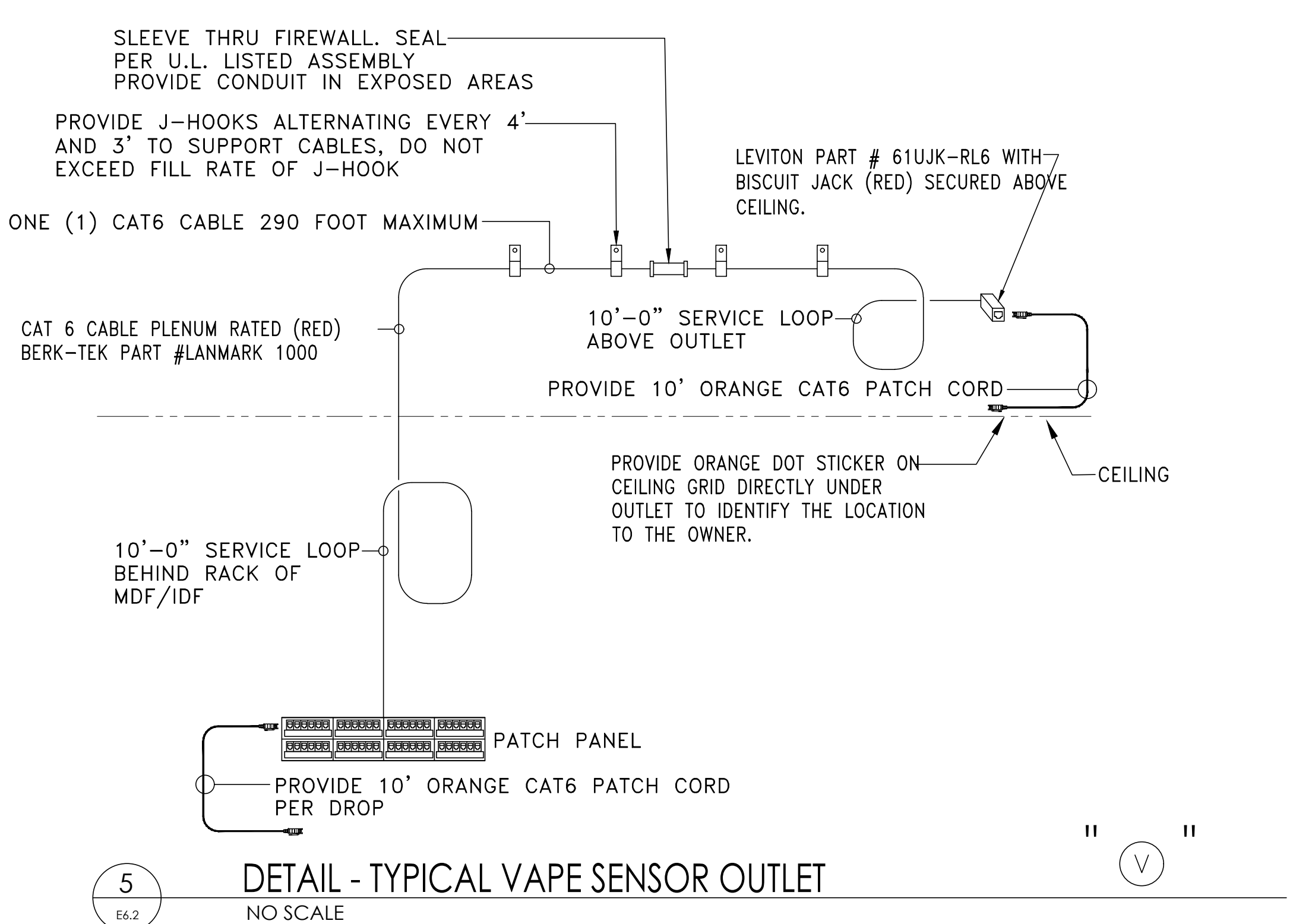
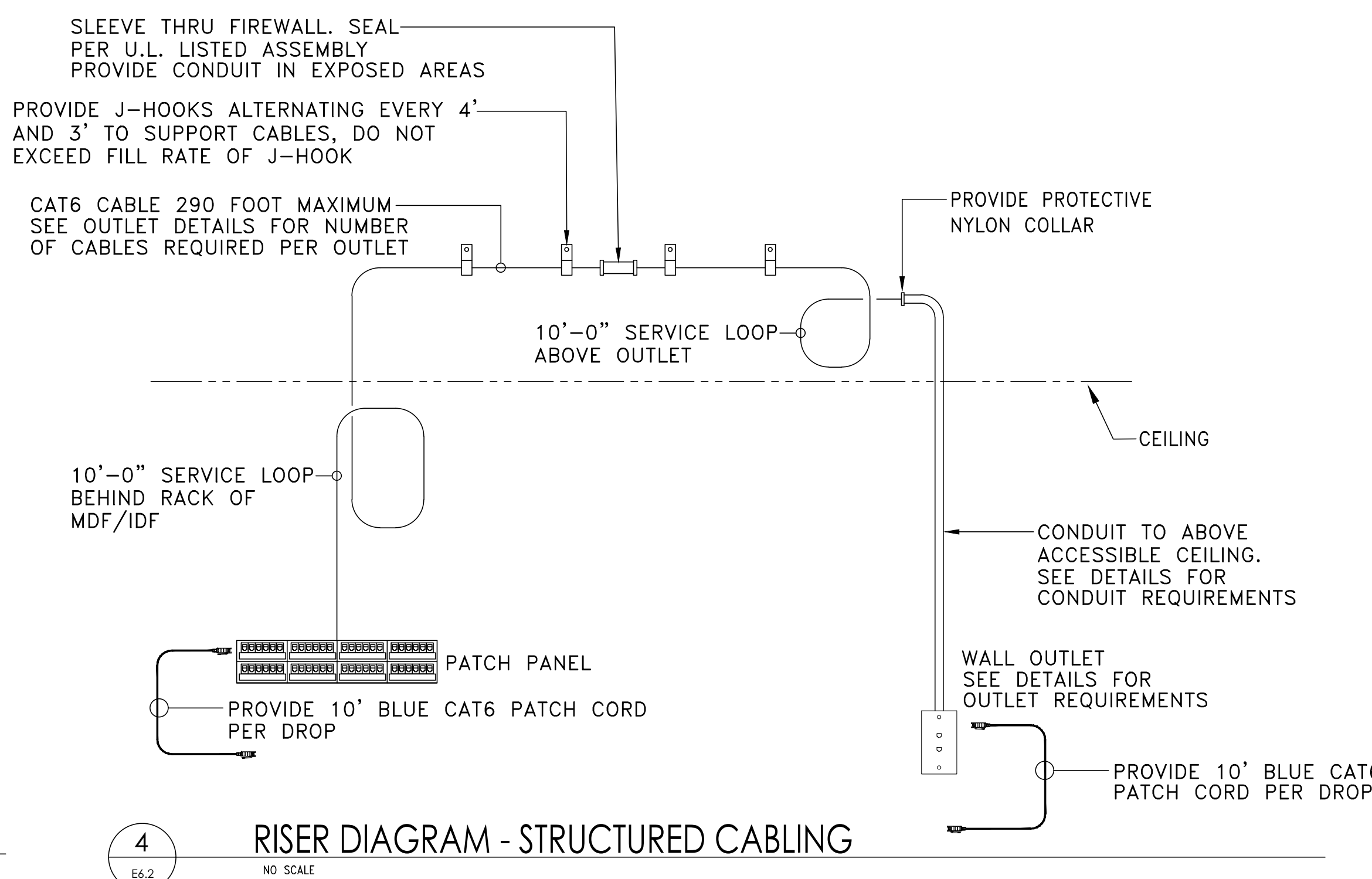
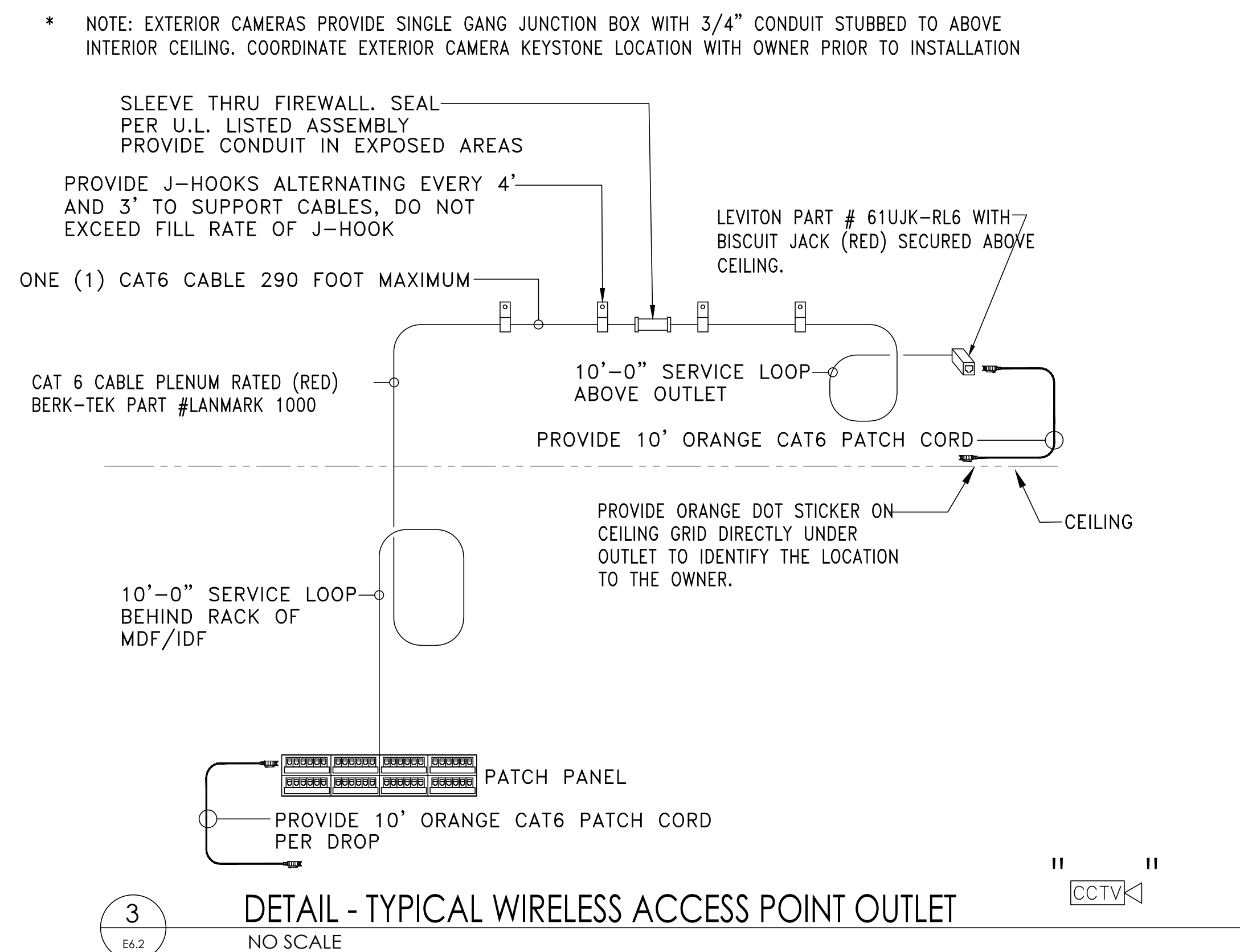
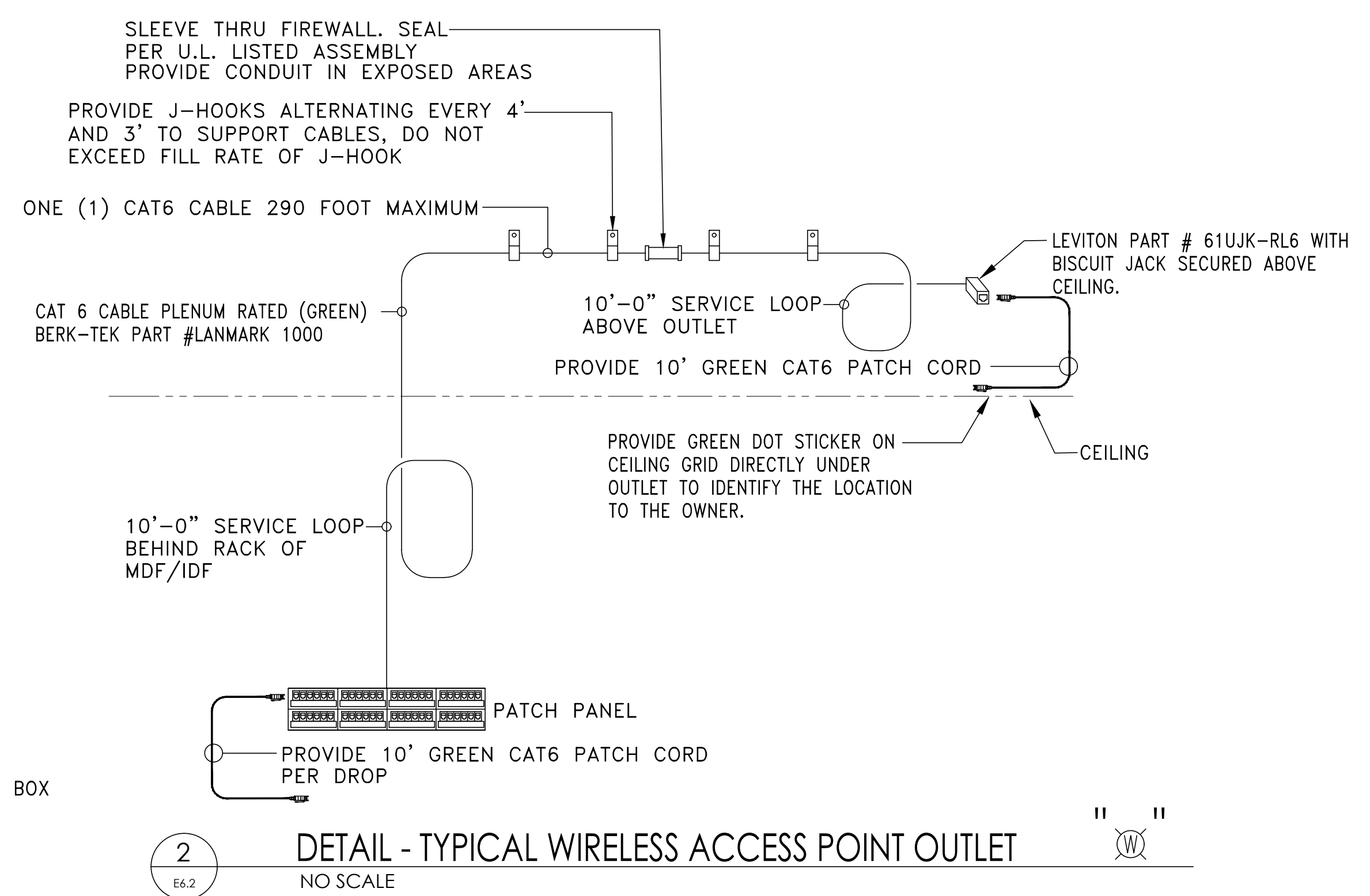
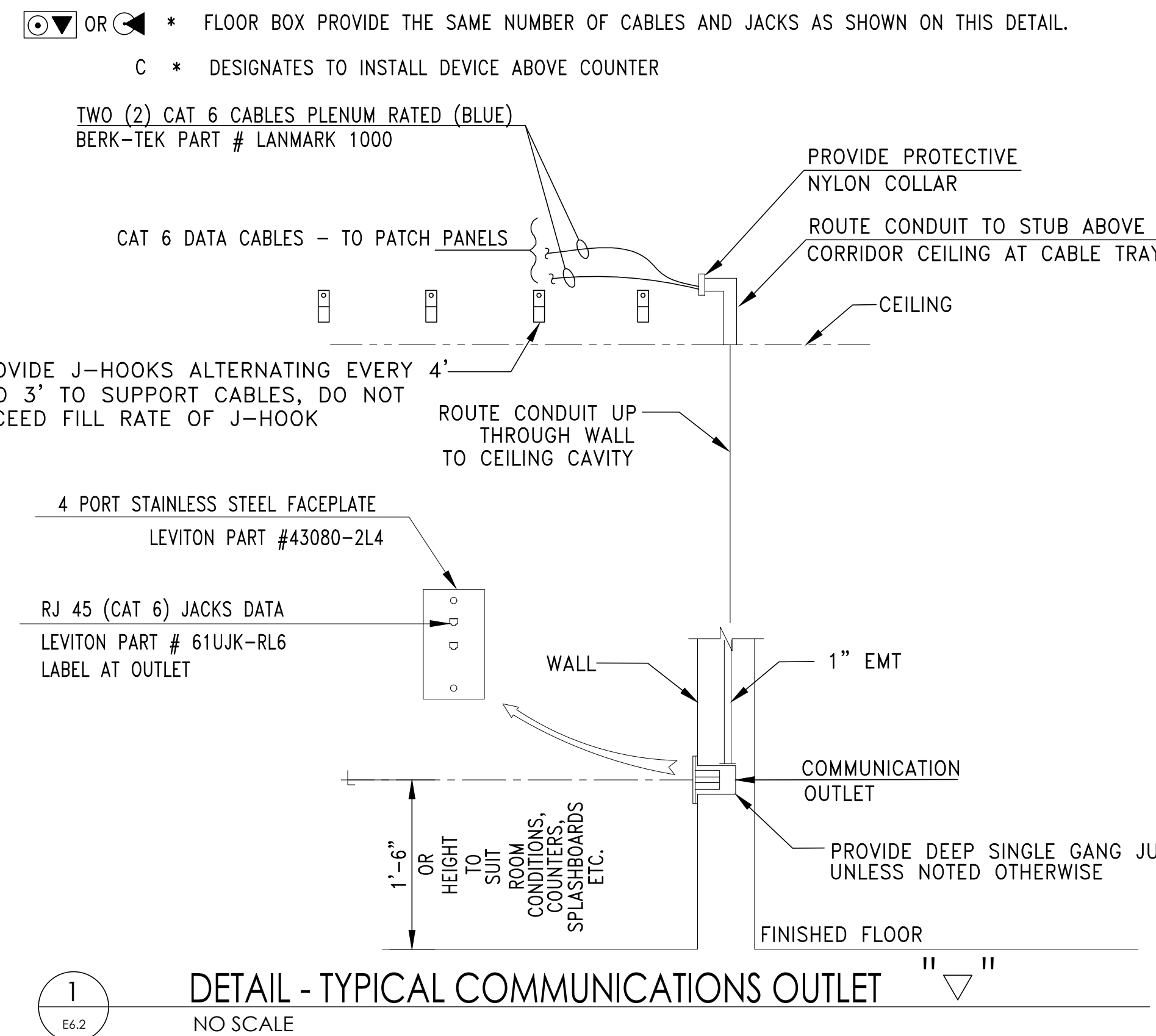
- ① CONTRACTOR SHALL PROVIDE A 6 STRAND OM3 MM 50-MICRON FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE NEW IDF. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING MDF IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE ELECTRICAL SITE PLAN FOR CONDUIT REQUIREMENTS. PROVIDE J-HOOKS ABOVE CEILINGS TO SUPPORT FIBER IN CONCEALED AREAS. PROVIDE CONDUIT IN EXPOSED AREAS.

**COMMUNICATION NOTES:**

1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDANT PAINT. MOUNT 2" AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.

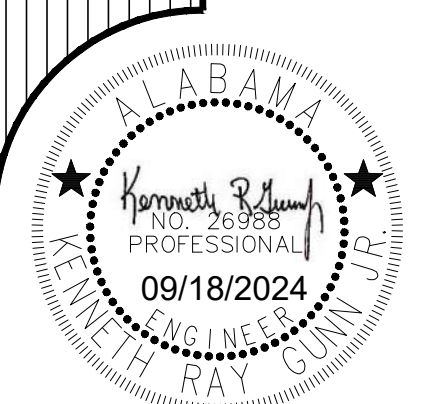


6 COMMUNICATIONS RISER DIAGRAM  
NO SCALE



**NEW GYMNASIUM AT APPALACHIAN SCHOOL**  
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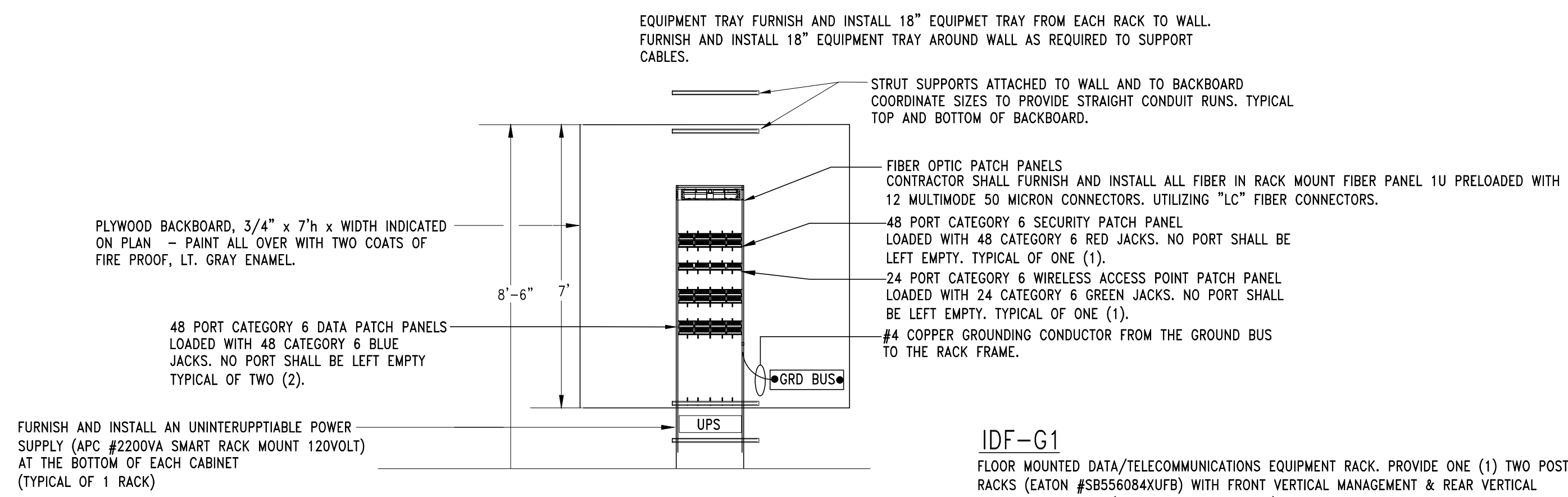
SHEET TITLE : COMMUNICATION RISER DIAGRAM, DETAILS & NOTES  
 MCKEE JOB # : 24-169  
 DRAWN BY : J. TILLERY  
 DATE : 09.18.24  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**GA** Gunn & Associates, P.C.  
 Consulting Engineers  
 3102 Highway 14 Millbrook, AL 36054  
 12000 Providence Park, Suite 200 Birmingham, AL 35242  
 Tel: 334.285.1273 GA#24-180

- revision history, Supplement 10, 2024 4-14-2024 P.M.



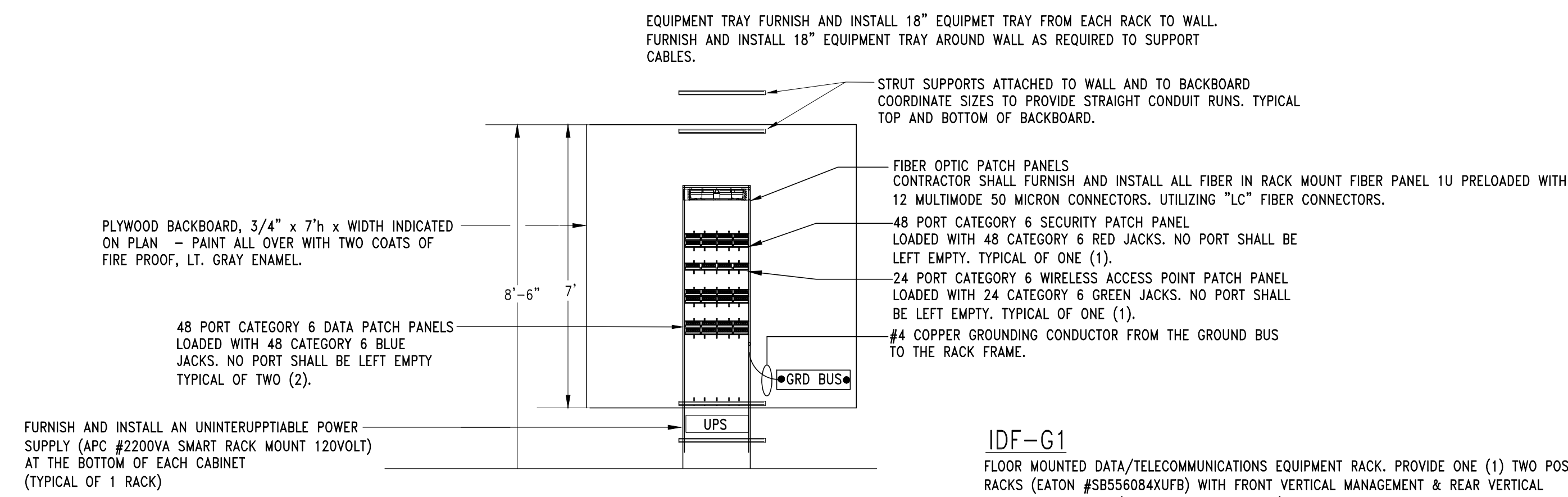
- \*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
- \*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
- \*ALL SECURITY CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
- \*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
- \*ALL FIBER OPTIC CONNECTIONS SHALL BE "LC" TYPE



**IDF-G1**  
FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE ONE (1) TWO POST RACKS (EATON #S555608A1UFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #S56060804FE) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #FDUMY30NET) IN EACH TELECOMMUNICATION RACK.

1 IDF-G1 COMMUNICATIONS RACK ELEVATION  
NO SCALE

- \*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
- \*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
- \*ALL SECURITY CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
- \*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
- \*ALL FIBER OPTIC CONNECTIONS SHALL BE "LC" TYPE



**IDF-G2**  
FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE ONE (1) TWO POST RACKS (EATON #S555608A1UFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #S56060804FE) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #FDUMY30NET) IN EACH TELECOMMUNICATION RACK.

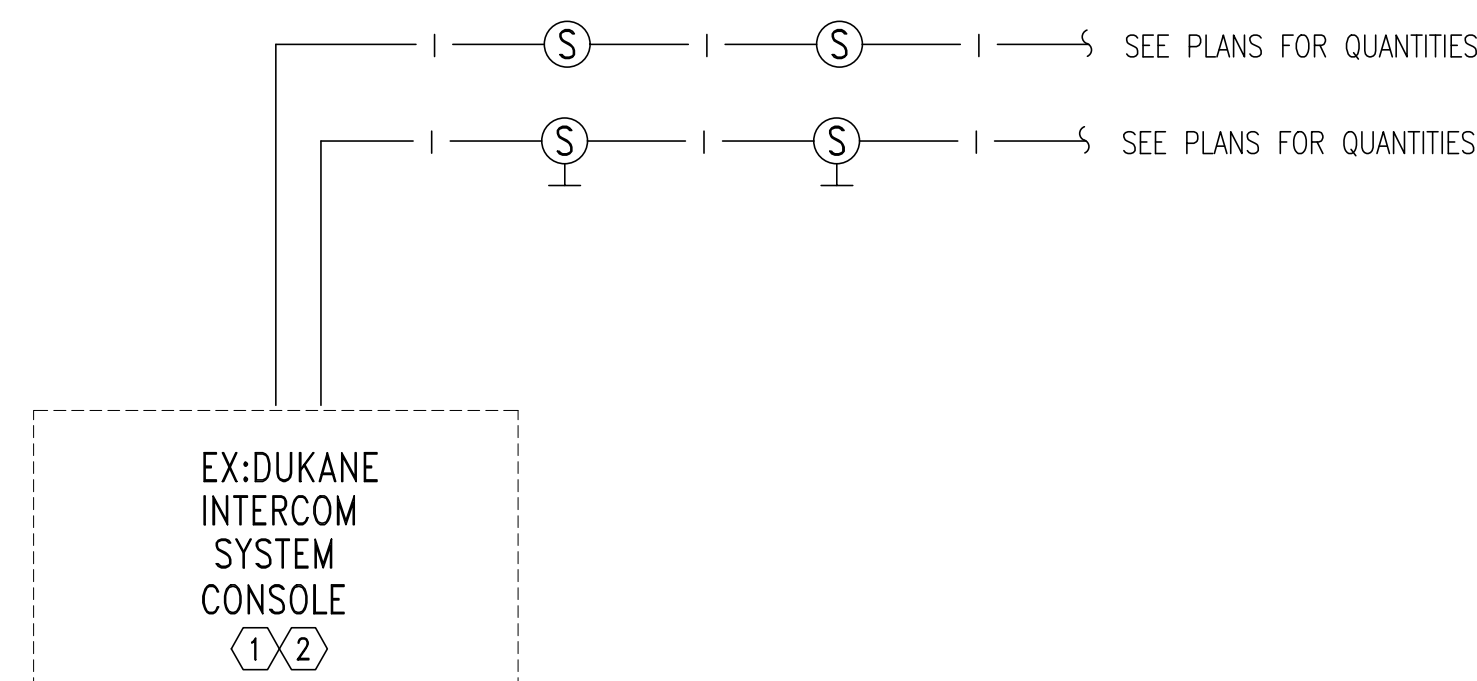
2 IDF-G2 COMMUNICATIONS RACK ELEVATION  
NO SCALE

**INTERCOM SYSTEM NOTES:**

- THE INTERCOM SYSTEM SHALL BE INSTALLED COMPLETE, WITH ALL EQUIPMENT, DEVICES, COMPONENTS, CABLE AND WIRING SYSTEMS, ETC., READY FOR OPERATION.
- INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) AND THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA).
- ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, CONDUCTOR AND CABLE SHIELDS, ETC., SHALL BE GROUNDED. SYSTEM SHALL BE BONDED TO THE FACILITY GROUND ELECTRODE SYSTEM AS NOTED.
- IN GENERAL THE INTERCOM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED.
- ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". STENCIL IN 2" HIGH LETTERS ON EVERY JUNCTION BOX COVER ABOVE CEILING THE LETTERS "INT".
- 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 OPERATION.
- A "CERTIFICATE OF COMPLETION" FROM THE MANUFACTURER'S REPRESENTATIVE SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
- INTERCOM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AND AMPLIFIERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
- PROVIDE PROPERLY SIZED JUNCTION BOXES TO HOUSE DEVICES. COORDINATE WITH SHOP DRAWING PRIOR TO ROUGH-IN. INCLUDE IN BID ALL MATERIAL NECESSARY TO MOUNT AND CONNECT DEVICES PER MANUFACTURER'S RECOMMENDATIONS.

**INTERCOM SHEET NOTES:**

- PROVIDE SURGE SUPPRESSION ON ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
- MODIFY EXISTING INTERCOM SYSTEM AS REQUIRED TO ACCOMMODATE ADDITIONAL DEVICES.

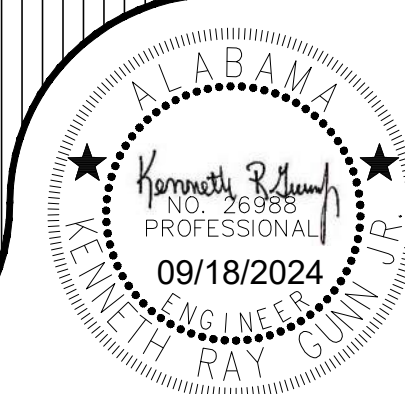


3 INTERCOM/CLASS BELL RISER DIAGRAM  
NO SCALE

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SHEET TITLE : COMMUNICATION RISER DIAGRAM, DETAILS & NOTES

MCKEE JOB # : 24-169

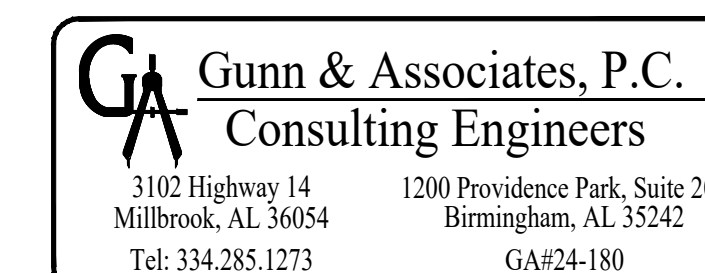
DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE:

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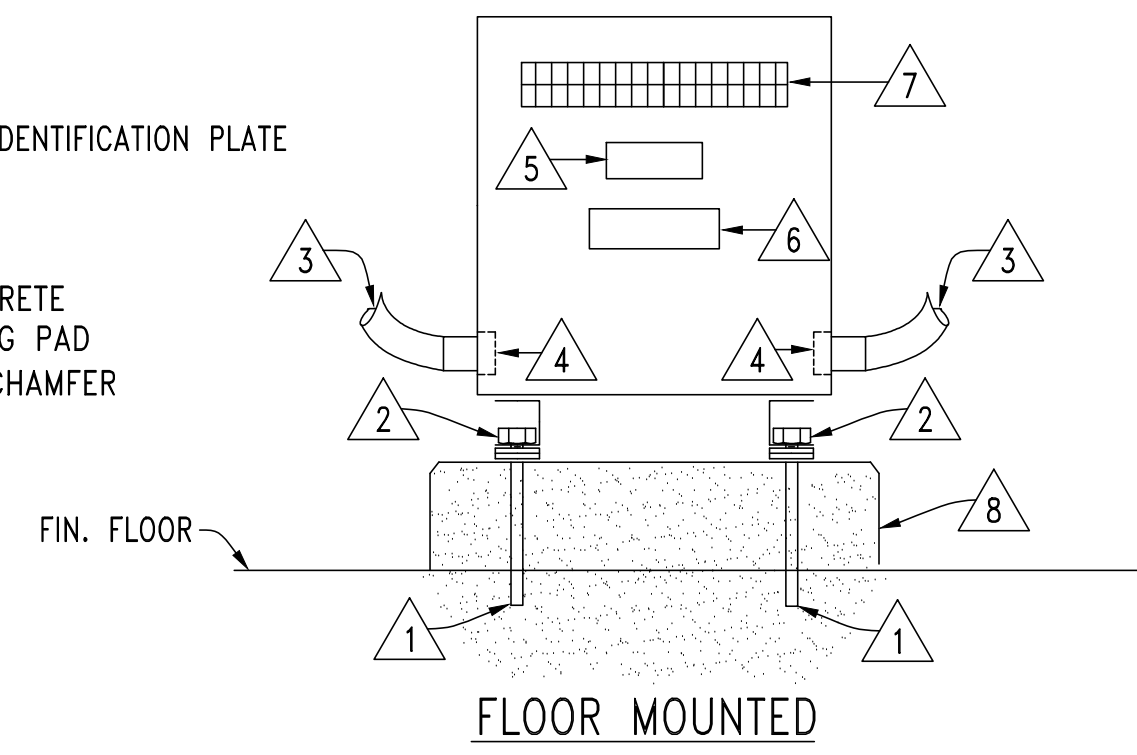


SHEET NO. : E6.3



**DETAIL KEYED NOTES**

- 1 FLOOR ANCHOR SYSTEM
- 2 VIBRATION ISOLATORS - TYP. FOR FOUR
- 3 FLEXIBLE CONNECTION
- 4 GROUND BUSSING TERMINATIONS
- 5 NAMEPLATE
- 6 TRANSFORMER IDENTIFICATION PLATE
- 7 VENTED COVER
- 8 4" HIGH CONCRETE HOUSE-KEEPING PAD WITH 45° 1" CHAMFER



**3** DETAIL-TYPICAL INDOOR INSTALLATION OF DRY TYPE TRANSFORMERS

NO SCALE

**INSTALLATION NOTES:**

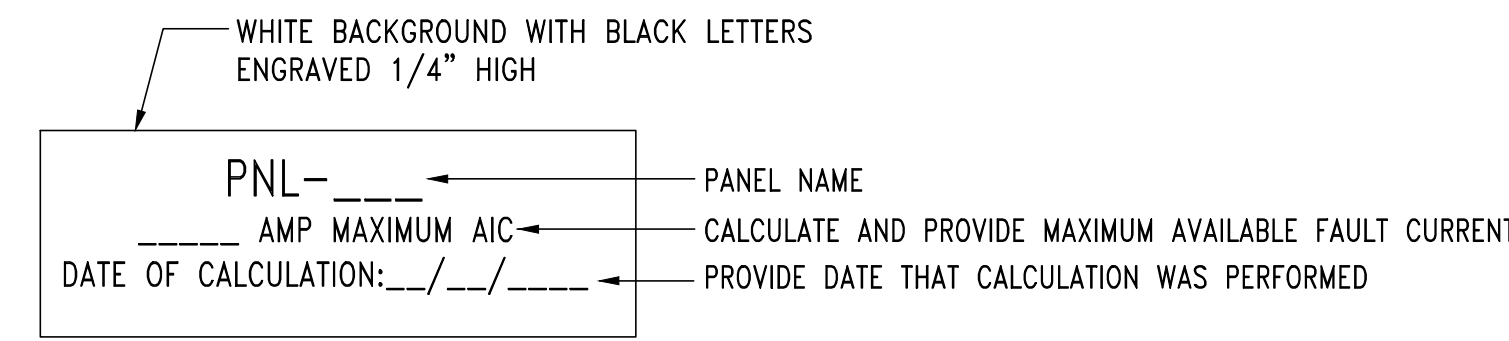
1. SIZE ALL SUPPORTS, ANCHOR SYSTEMS, BOLTS, ETC., AS REQUIRED FOR A SECURE INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.

**DRY TYPE TRANSFORMER SCHEDULE**

MARK	KVA	VOLTAGE		°C RISE	K FACTOR	NOTES
		PRIMARY	SECONDARY			
TX-A	225	480 V. DELTA 3 PH., 3 W.	208Y/120 V. 3 PH., 4 W.	150	4	6

**NOTES:**

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

**2** DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

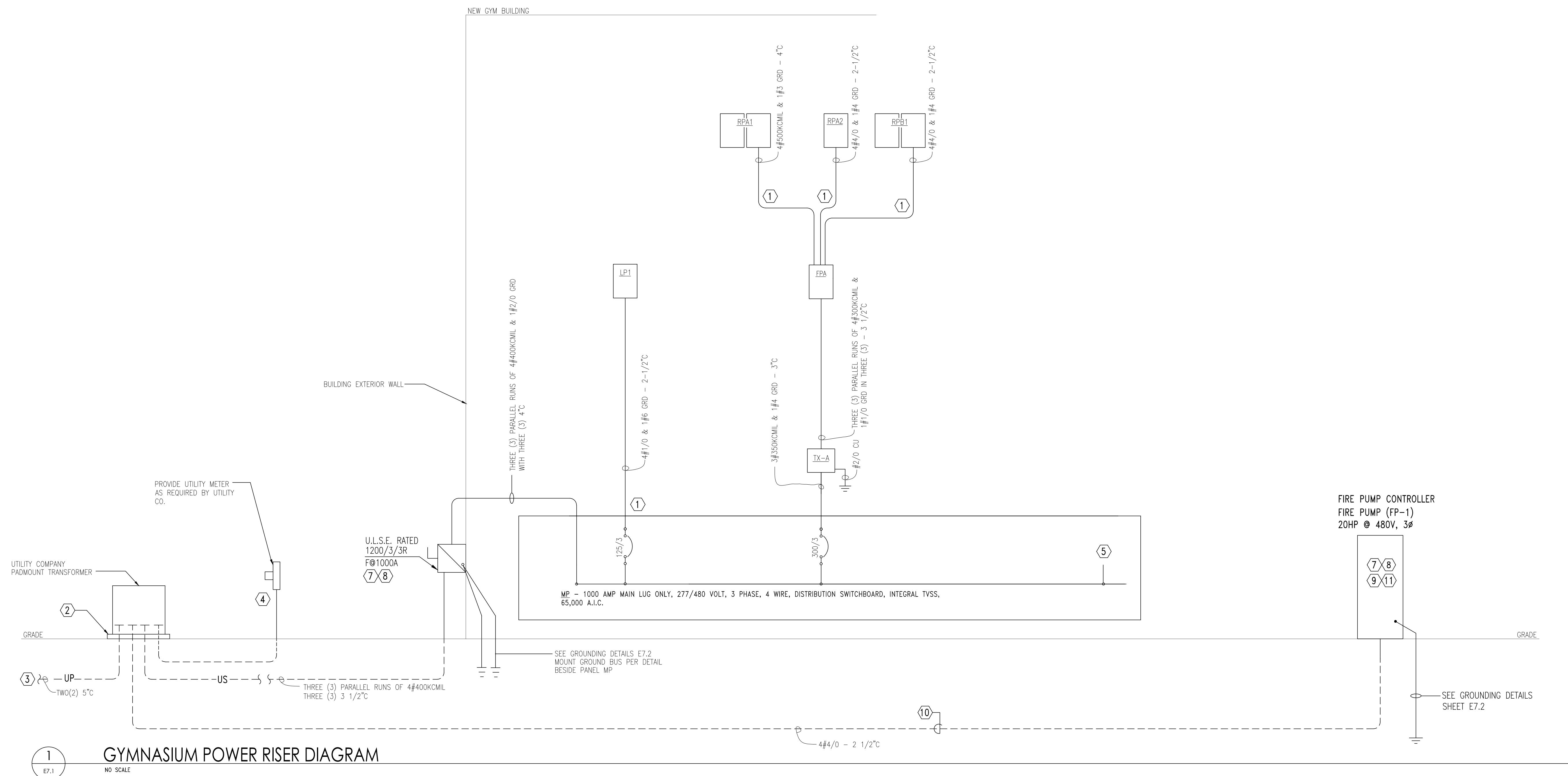
NO SCALE

**POWER RISER DIAGRAM NOTES:**

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS. ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH 1" CHAMFER FOR ALL FLOOR MOUNTED TRANSFORMERS AND SWITCHBOARDS.
6. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.2 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
7. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
8. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
9. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

**SHEET NOTES:**

- 1 FEEDER CIRCUIT SHALL BE INSTALLED UNDERGROUND BELOW SLAB.
- 2 INSTALL CONCRETE PAD FOR PADMOUNT TRANSFORMER AS DIRECTED BY UTILITY COMPANY.
- 3 INSTALL UNDERGROUND PRIMARY CONDUITS AS INDICATED ON THE SITE ELECTRICAL PLAN.
- 4 INSTALL A MINIMUM 1-1/4" CONDUIT FROM THE SECONDARY CONNECTION COMPARTMENT OF THE PADMOUNT TRANSFORMER TO THE METER BASE. VERIFY THE EXACT CONDUIT SIZE, TERMINATION POINTS, AND ROUTING WITH APCO PRIOR TO ROUGH-IN. MOUNT METER BESIDE TRANSFORMER. PROVIDE SUPPORT PER APCO REQUIREMENTS FOR MOUNTING OF METER. IF APCO REQUIRES FEED THRU CT CABINET METER THEN PROVIDE SERVICE ENTRANCE FEEDER RATED THRU IT.
- 5 SEE PANELBOARD SCHEDULE FOR CIRCUIT BREAKER PROVISIONS.
- 6 SEE DETAIL (3) THIS SHEET FOR TRANSFORMER INSTALLATION REQUIREMENTS.
- 7 COORDINATE AND PROVIDE PROPER LOCK BOX AND KILL SWITCH CONNECTED TO THE MAIN SHUNT TRIP CIRCUIT BREAKER OF PANEL. PROVIDE PLAQUE INDICATING "BUILDING NORMAL POWER DISCONNECT, SERVICE 1 OF 2, SERVICE 2 OF 2 LOCATED AT FIRE PUMP".
- 8 PROVIDE PHENOLIC LABEL THAT INDICATES THE FOLLOWING: "ELECTRICAL SERVICE 1 OF 2 "SE", OTHER ELECTRICAL SERVICES LOCATED IN FIRE PUMP ROOM"
- 9 PROVIDE PHENOLIC LABEL THAT INDICATES THE FOLLOWING: "ELECTRICAL SERVICE 2 OF 2 "FIRE PUMP", OTHER ELECTRICAL SERVICES LOCATED IN ELECTRICAL ROOM"
- 10 CONCRETE ENCASE FEEDER FOR FIRE PUMP FROM TRANSFORMER TO FIRE PUMP CONTROLLER.
- 11 FIRE PUMP SHALL BE RATED FOR SERVICE ENTRANCE, COORDINATE MAX LUG SIZE WITH FIRE PUMP CONTROLLER PROVIDER AND IF THERE ARE ANY CONFLICTS ALERT ENGINEER PRIOR TO INSTALLING SERVICE ENTRANCE FEEDER.



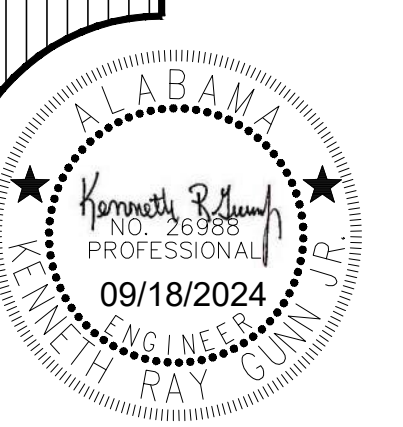
**1** GYMNASIUM POWER RISER DIAGRAM

NO SCALE

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 ONEONTA, ALABAMA

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SHEET TITLE : POWER RISER DIAGRAMS, DETAILS & NOTES

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

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**Gunn & Associates, P.C.**  
 Consulting Engineers  
 3102 Highway 14  
 Millbrook, AL 36054  
 Tel: 334.285.1273

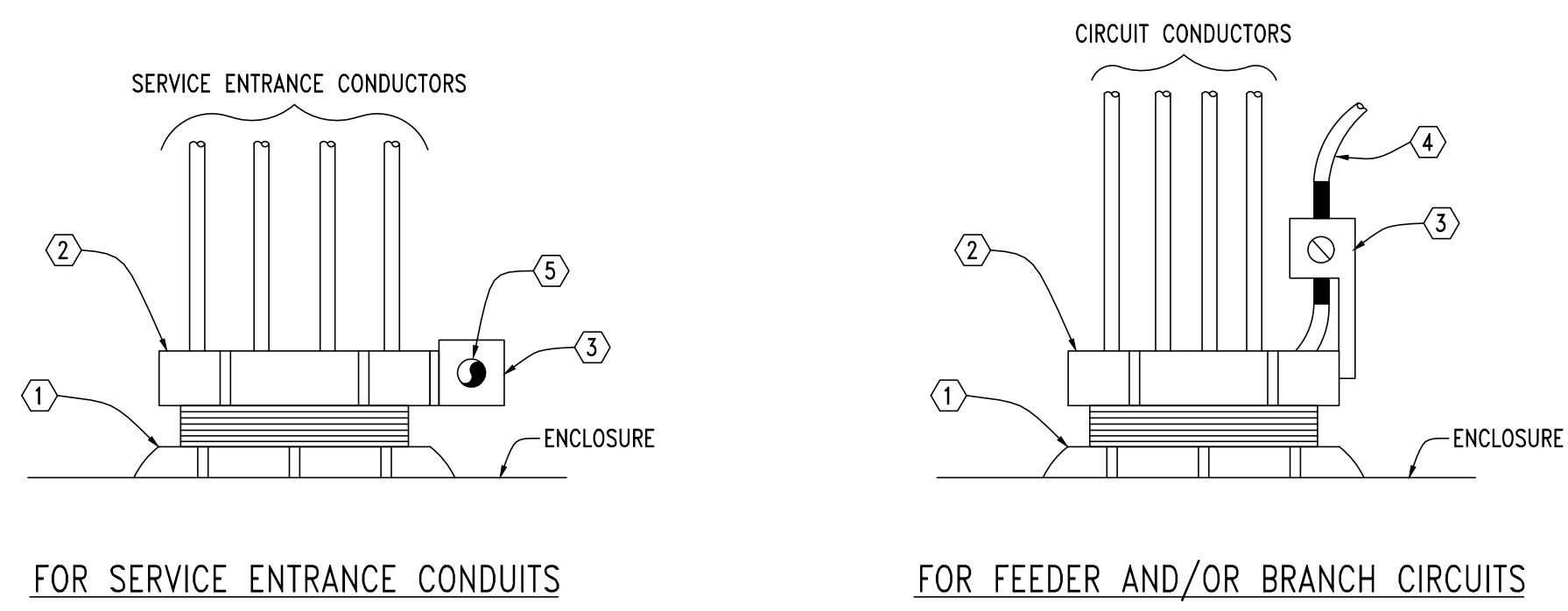
1200 Providence Park, Suite 200  
 Birmingham, AL 35242  
 GA#24-180

SHEET NO. : **E7.1**



DETAIL NOTES

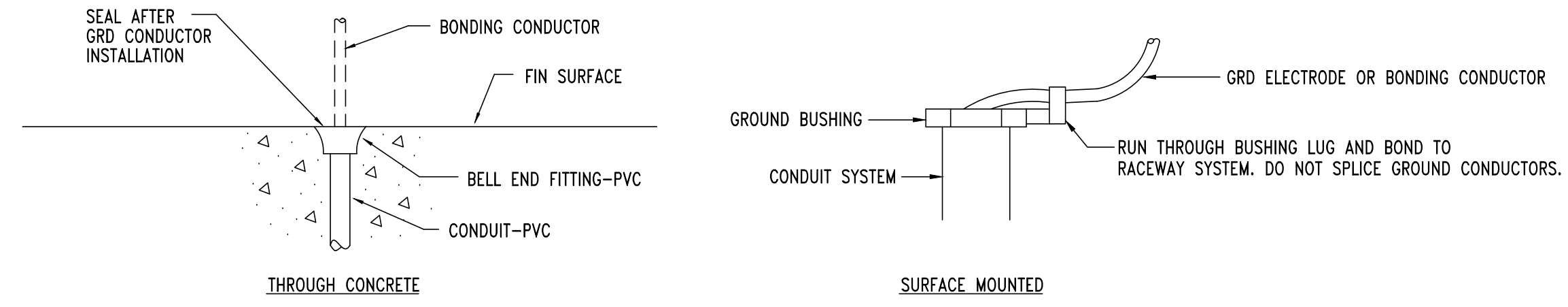
- ① LOCK-NUT ASSEMBLIES
- ② METAL GROUNDING BUSHING
- ③ COPPER GROUND LUG
- ④ COPPER GROUND CONDUCTOR, REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
- ⑤ CONTINUOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING, DO NOT SPLICE OR TAP.



3  
E7.2  
DETAIL - TYPICAL GROUND BUSHING INSTALLATION  
NO SCALE

NOTES

1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.



4  
E7.2  
DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM  
NO SCALE

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
  - a. PROVIDE A SOLIDLY GROUND SECONDARY SYSTEM.
  - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
  - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
  - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
  - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
  - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

REF	ENGLISH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	457.2m

GROUND BUS NOTES

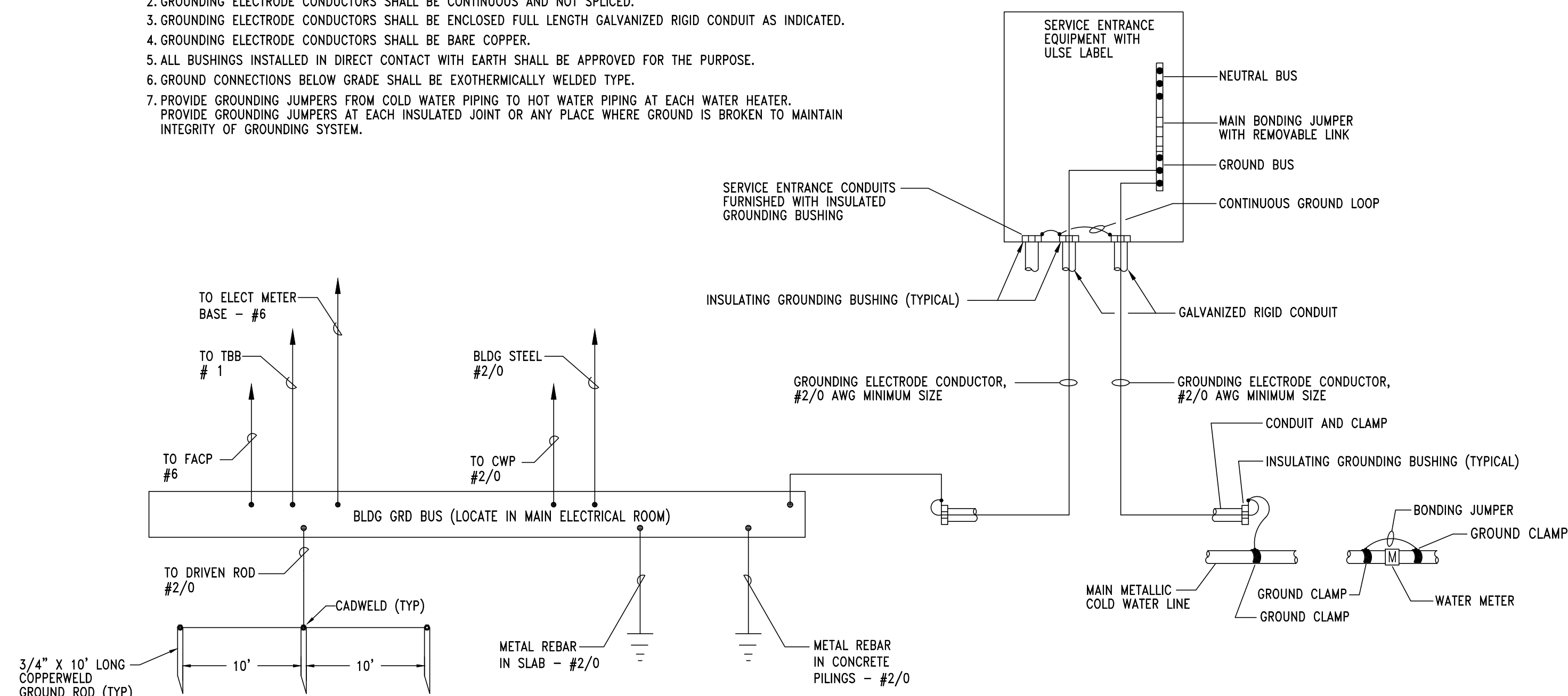
1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

KEYED NOTES

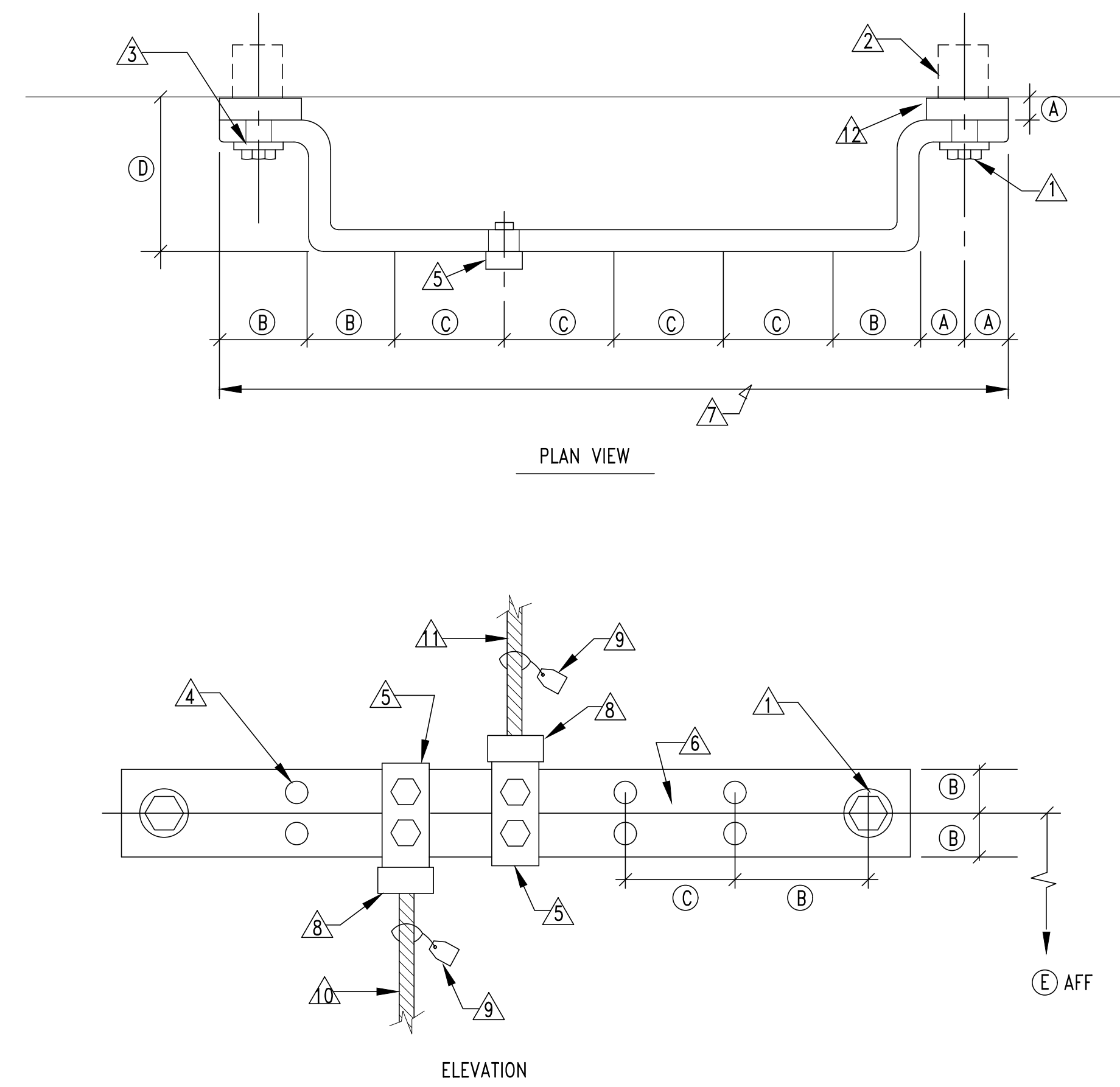
- △ 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
- △ 1/2" (12.7mm) EXPANSION ANCHOR
- △ 9/16" (14.2875mm) HOLE IN BAR
- △ DRILLED DOUBLE CONNECTOR HOLES
- △ FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #2/0 (SINGLE LUGS ONLY)
- △ 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- △ LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- △ TYP CU GRD CONDUCTOR CONNECTION
- △ DESCRIPTION TAG, STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- △ TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- △ TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- △ INSULATED NON-CONDUCTIVE SPACER

NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED 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 INTEGRITY OF GROUNDING SYSTEM.



2  
E7.2  
DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION  
NO SCALE

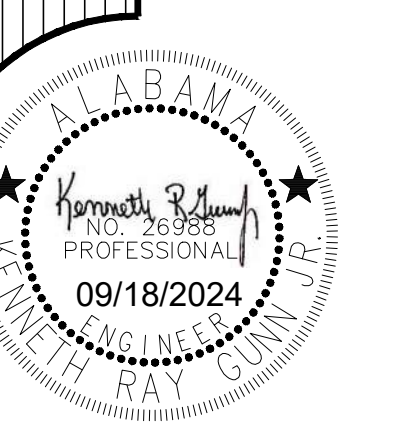


4  
E7.2  
DETAIL - TYPICAL GROUND BUS INSTALLATION  
NO SCALE

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SHEET TITLE : GROUNDING DETAILS & NOTES

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE : 09.18.24

REVISED DATE :

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**GA** Gunn & Associates, P.C.  
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 3102 Highway 14  
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SHEET NO. : E7.2