

# EAST HICKMAN HIGH SCHOOL

## AGRICULTURAL/VOCATIONAL EDUCATION BUILDING



### PROJECT 911 ADDRESS:

7700 TN-7  
LYLES, TENNESSEE 37098  
HICKMAN COUNTY, TENNESSEE

### DESIGN TEAM:

**ARCHITECTURAL:**  
LYLE COOK MARTIN ARCHITECTS  
310 FRANKLIN ST  
CLARKSVILLE, TENNESSEE 37040

**CIVIL:**  
SOUTHERN CONSULTING  
1208 HIGHWAY 47 EAST  
DICKSON, TENNESSEE 37055

### OWNER:

HICKMAN COUNTY SCHOOLS  
CENTERVILLE, TENNESSEE

### STRUCTURAL:

K&S STRUCTURAL ENGINEERS  
P.O. BOX 3033/124 HILLCREST DR  
CLARKSVILLE, TENNESSEE 37043

### MECHANICAL, ELECTRICAL, PLUMBING:

ENTECH ENGINEERING  
2948 SIDCO DR  
NASHVILLE, TENNESSEE 37204



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#### ISSUE DATE:

07/18/2025

#### REVISION DATE:

09.05.2025

#### REVISION NO.

1

### CODE INFORMATION

#### PROJECT DESCRIPTION:

Structure includes wood-framed, single-story structure with wood truss roof system over slab on grade foundation. Contents include two classrooms with toilet rooms in each.

#### REGULATORY REQUIREMENTS:

The 2012 International Building Code and the 2012 Life Safety Code are the governing construction codes. The construction is Type - IIIB. The occupancy type shall be Educational. Accessibility is governed by the 2010 ADA.

#### APPLICABLE CODES AND REGULATIONS:

2012 International Building Code  
(excluding Ch. 11 & Sec. 3411)  
2012 International Energy Conservation Code  
2012 International Mechanical Code  
2017 National Electric Code, NFPA 70  
2012 International Plumbing Code  
2012 International Fire Code  
2012 NFPA 101 Life Safety Code  
2010 ADA Standards for Accessible Design

#### BUILDING DEPARTMENT:

Director: Robert Atkinson  
114 N. Central Avenue, Suite 101  
Centerville, Tennessee 37033

#### HICKMAN COUNTY FIRE DEPARTMENT:

Fire Chief: Kevin Baxter  
7669 TN-7  
Lyles, Tennessee 37098

IECC CLIMATE ZONE: 4A

OCCUPANCY TYPE: E-EDUCATION

OCCUPANCY FREQUENCY: 7:00 AM - 5:00 PM M-F

CONSTRUCTION TYPE: V-B NONPROTECTED, NONSPRINKLERED

OCCUPANCY SEPARATION: N (PER IBC TABLE 508.4)

MAXIMUM ALLOWABLE AREA: 9,500 SQ. FT.

ACTUAL BUILDING AREA: GROUP E: 2,142 SQ. FT.  
TOTAL BUILDING AREA 2,400 SQ. FT.

#### MAXIMUM ALLOWABLE OCCUPANCY:

EDUCATION-  
VOCATIONAL ROOM 2,142 SQ.FT./50 NET= 43 OCCUPANTS  
TOTAL MAXIMUM OCCUPANTS 43 OCCUPANTS

MAXIMUM ALLOWABLE HEIGHT: 40'-0" - GROUP-E - 1 STORIES  
(TABLE 503 IBC)

ACTUAL HEIGHT: 21'-10-1/2" - 1 STORY

MAXIMUM ALLOWABLE EXIT  
TRAVEL DISTANCE: 200'-0"  
(TABLE 1016.2 IBC)

MINIMUM INSULATIVE VALUES:  
(PER IECC TABLES C402.1.3, C402.1.4)

ROOF INSULATION R-38  
WALLS ABOVE GRADE R-19  
SLAB ON GRADE FLOOR NR  
ENTRANCE DOORS U-0.37  
GARAGE DOORS U-0.31

LOADING:  
See Structural Drawings for all loading criteria

FIRE RESISTANCE RATING  
0 PER TABLE 601

### WALL LEGEND

EXTERIOR WALL - 2x6 WOOD STUD FRAMING

INTERIOR STUD WALL (2X6 WOOD STUD FRAMING WITH 3 1/2" SOUND BATT INSULATION AT CENTER WALL, 2X4 WOOD STUD FRAMING WITH 3 1/2" SOUND BATT INSULATION AT TOILET ROOM WALLS & CEILING FRAMING)

### GENERAL NOTES:

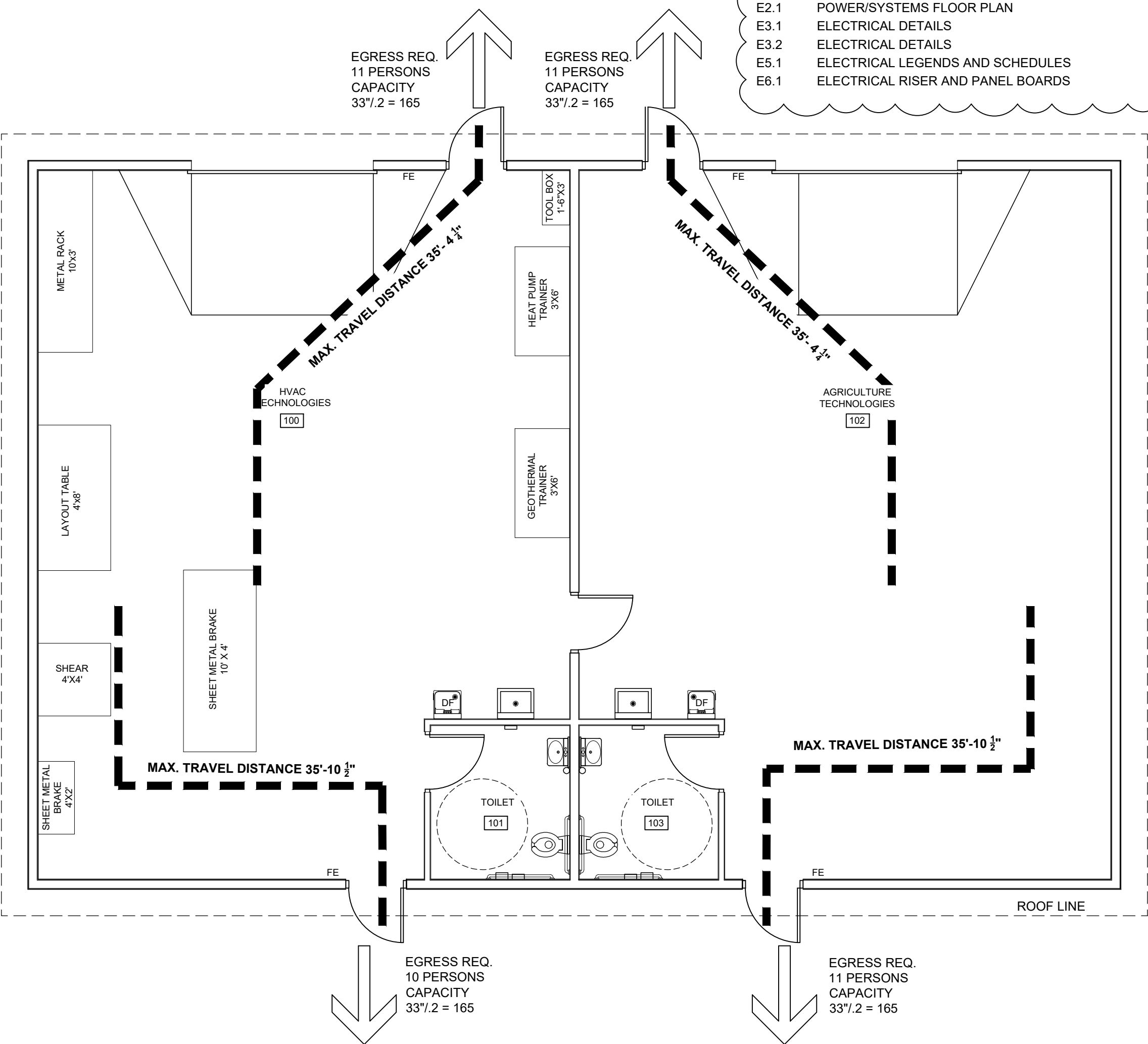
- Documentation of Existing Conditions: It is the responsibility of the Contractor to document existing conditions concerning existing damage that could be construed to have been caused by construction operations. This may be by methods of the Contractor's choosing, either video or digital photography. All conditions must be documented and filed with the Architect prior to construction.
- Provide surface mounted bracketed fire extinguishers, indicated with "FE" on plan- 4 (four) total.



### LEGEND OF ABBREVIATIONS:

APPROX.	APPROXIMATE
REQ.	REQUIRED
REF.	REFERENCE TO
CL	CENTER LINE
O.C.	ON CENTER
FE	FIRE EXTINGUISHER
MAX.	MAXIMUM
OPP. HAND	OPPOSITE HAND
TYP.	TYPICAL
SIM.	SIMILAR
GYP	GYPSUM
SF	SQUARE FOOT
GB	GYPSUM WALL BOARD
LVT	LUXURY VINYL TILE
PT	PAINT SYSTEM
RCB	RESILIENT (VINYL/RUBBER) COVE BASE

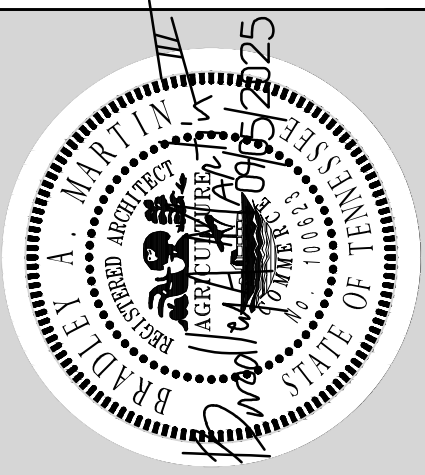
\*NOTE: ADDITIONAL INDIVIDUAL ABBREVIATIONS ARE LISTED PER DRAWING SHEET AND PER CONSULTANT DRAWINGS. FOR EXAMPLE, REFERENCE ABBREVIATIONS ON SHEET A3.0 FOR DOOR SCHEDULE, ROOM FINISH AND TOILET ACCESSORY ABBREVIATIONS, ETC.



1  
A1.0

### LIFE SAFETY PLAN

SCALE 3/16"=1'-0"



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EAST HICKMAN HIGH SCHOOL  
AGRICULTURAL/VOCATIONAL

EDUCATION BUILDING  
LYLES, TENNESSEE

TITLE SHEET & LIFE SAFETY PLAN

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	CJC
Revision Date	09.05.2025
Revision Date	
Revision Date	

T1.0

SHEET NO.



# EAST HICKMAN HIGH SCHOOL AGRICULTURAL/VOCATIONAL EDUCATION BUILDING

## HICKMAN COUNTY BOARD OF EDUCATION

911 ADDRESS 7700 TN-7 HIGHWAY  
LYLES, HICKMAN COUNTY, TENNESSEE

September 05, 2025



#### PROPERTY INFORMATION

OWNER/DEVELOPER: HICKMAN COUNTY BOARD OF EDUCATION  
931-729-3391  
115 MURPHREE AVE.  
CENTERVILLE, TENNESSEE 37033

ENGINEER: SOUTHERN CONSULTING  
TRENT SMITH, PE  
615-740-8777  
TSMITH@SOUTHERN-TN.COM  
1208 HIGHWAY 47E  
DICKSON, TENNESSEE 37055

#### DATUM INFORMATION

STATE PLANE COORDINATE SYSTEM: TENNESSEE  
VERTICAL DATUM: NAVD 88  
GEODETIC DATUM: NAD 83  
GEOID MODEL: GEOID 12A

#### FEDERAL FLOOD NOTE

THIS PROPERTY IS NOT LOCATED WITHIN THE 100  
YEAR FLOODPLAIN AS DESIGNATED ON CURRENT  
FEDERAL EMERGENCY MANAGEMENT AGENCY MAP  
NO. 47081C0090D, EFFECTIVE DATE 7/16/2008

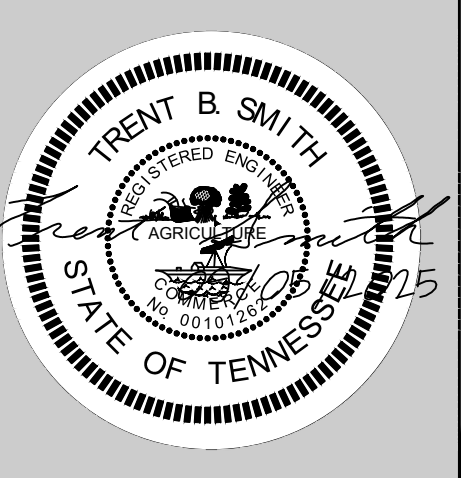
#### Sheet List Table

Sheet Number	Sheet Title
C0.0	TITLE SHEET
C1.0	DEMOLOTION PLAN
C2.0	SITE & UTILITY PLAN
C3.0	GRADING PLAN
C4.0	DETAIL SHEET

EAST HICKMAN HIGH SCHOOL  
AGRICULTURAL/VOCATIONAL  
EDUCATION BUILDING  
LYLES, TENNESSEE

TITLE SHEET

Project No.	1402.1
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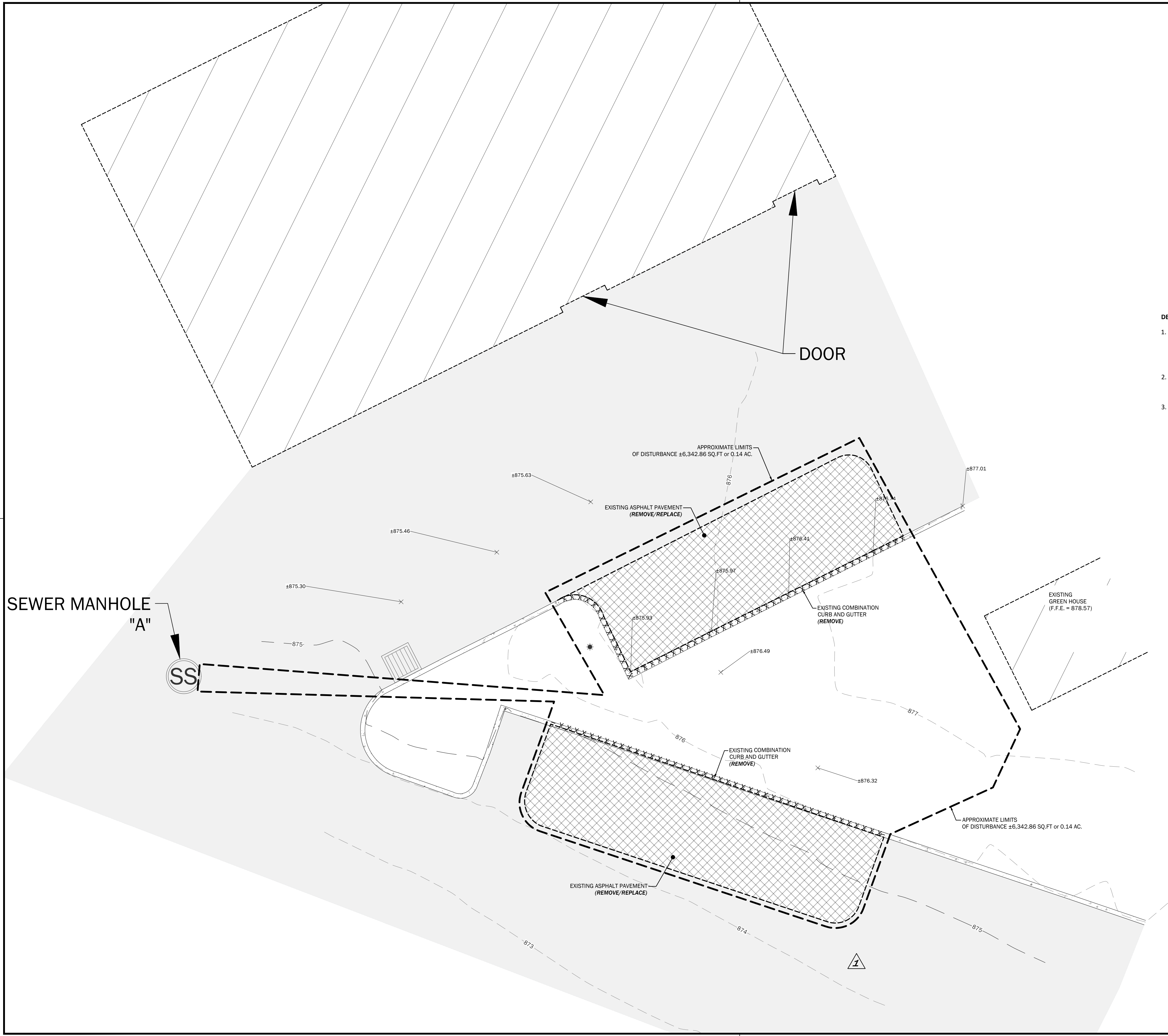



**Southern Consulting**  
Engineering • Materials Testing • Surveying  
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C0.0


SHEET NO.

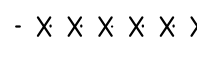





  
10 0 10 20  
SCALE: 1" = 10'

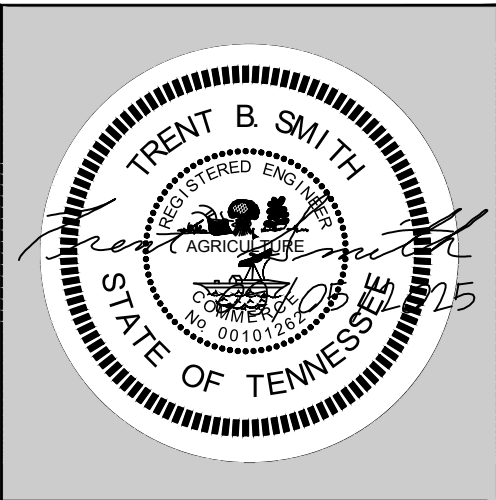
**DEMOLITION LEGEND**  

 SITE DEMOLITION

 EXISTING CURB & GUTTER DEMOLITION

 APPROXIMATE LIMITS OF DISTURBANCE

- DEMOLITION NOTES:**
1. THE CONTRACTOR SHALL NOTE THAT THIS SHEET IS INTENDED TO PROVIDE AN OVERALL VIEW OF PROJECT DEMOLITION. IT DOES NOT NOTE OR CONSTITUTE ALL ITEMS TO BE DEMOLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLANS AND PROJECT SITE, AND HIGHLIGHT ANY ITEMS HE IS UNSURE OF DURING THE BID PROCESS AND REQUEST CLARIFICATION. NO CLAIMS SHALL BE CONSIDERED AFTER THE PROJECT BIDS RELATED TO THE DEMOLITION AREA.
  2. DURING CONSTRUCTION, ANY EXISTING LANDSCAPING, FENCING, ETC. TO BE RETAINED SHALL BE PROTECTED AND IF DAMAGED OR REMOVED SHALL BE REPLACED WITH LIKE MATERIALS AS APPROVED BY THE OWNER'S REPRESENTATIVE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
  3. ALL DEMOLITION, CLEARING, AND GRUBBING SHALL BE REMOVED FROM THE PROJECT SITE. NO BURNING OF PERISHABLE MATERIAL WILL BE PERMITTED.



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LYLES, TENNESSEE**

**DEMOLITION PLAN**

Project No.	1402.1
Issue Date	07/18/2025
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Revision Date	09/05/2025
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**C1.0**  
SHEET NO.



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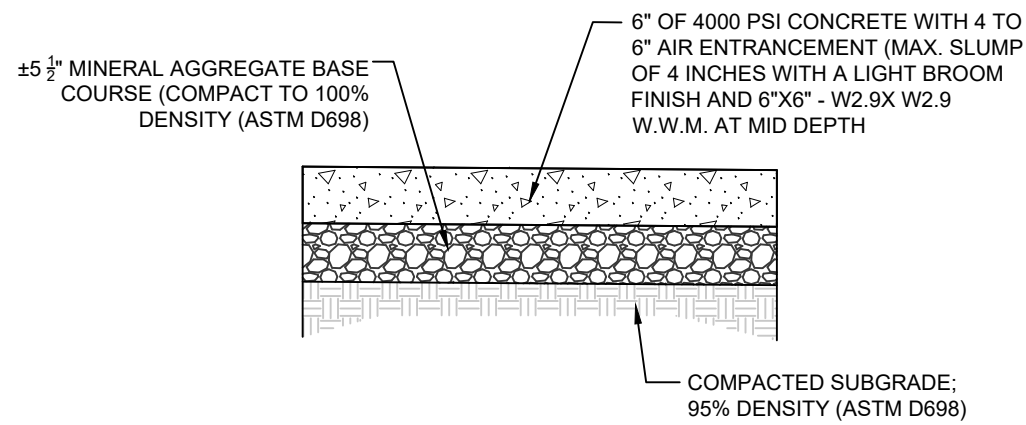
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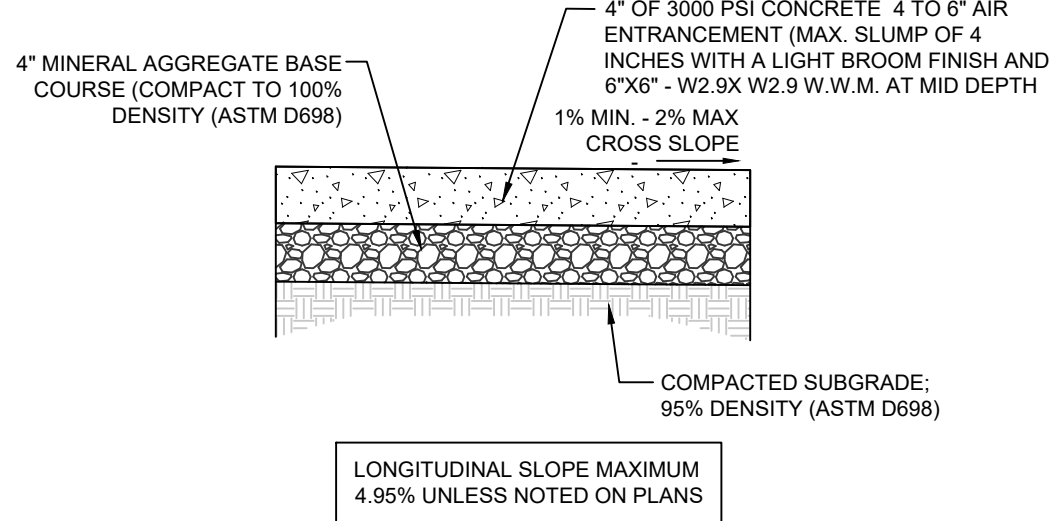


THESE DETAILS ARE SUBJECT TO CHANGE ACCORDING TO CONDITIONS ON THE SITE AND RECOMMENDATIONS OF THE SOILS REPORT. ALL DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE GEOTECHNICAL ENGINEER.

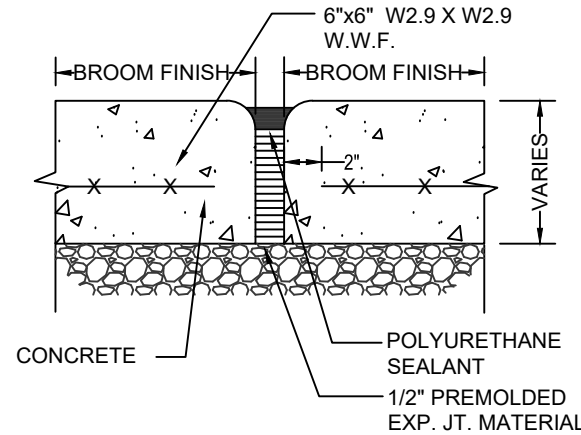


1  
C4.0 CONCRETE PAVEMENT SECTION  
NOT TO SCALE

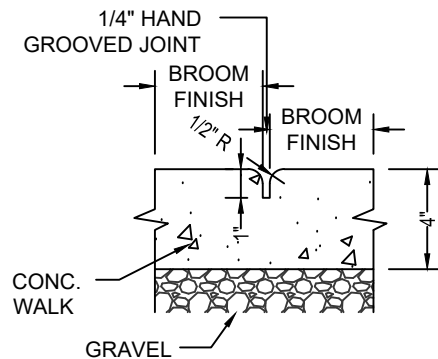
THESE DETAILS ARE SUBJECT TO CHANGE ACCORDING TO CONDITIONS ON THE SITE AND RECOMMENDATIONS OF THE SOILS REPORT. ALL DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE GEOTECHNICAL ENGINEER.



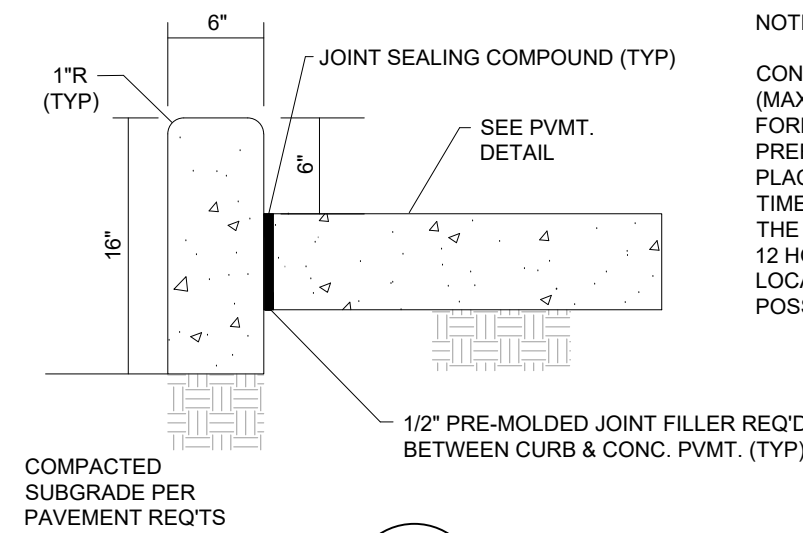
2  
C4.0 CONCRETE SIDEWALK SECTION  
NOT TO SCALE



EXPANSION  
JOINT



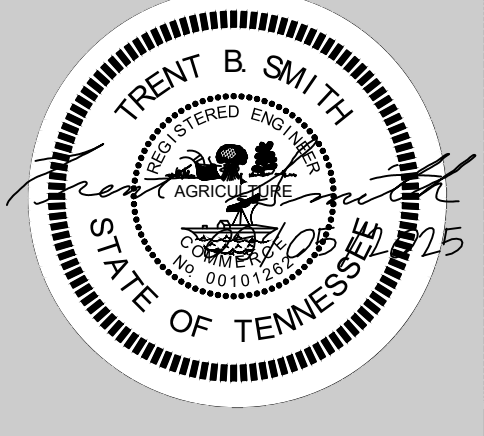
CONTROL  
JOINT



4  
C4.0 6"x16" STAND UP CURB DETAIL  
NOT TO SCALE

NOTE:

CONTRACTION JOINTS SHALL BE SPACED AT 15' (MAX) CENTER TO CENTER, AND SHALL BE FORMED USING PLASTIC OR HARDBOARD PREFORMED STRIPS (1/3 DEPTH OF SLAB) PLACED IN THE SIDEWALK AND CURB AT THE TIME OF CONSTRUCTION, OR BY SAWCUTTING THE SIDEWALK AND CURB TO 1/3 DEPTH WITHIN 12 HOURS AFTER CONSTRUCTION. MATCH LOCATION OF JOINTS IN PAVEMENT WHERE POSSIBLE.



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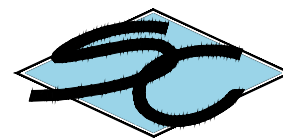
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DETAIL SHEET

Project No.	1402.1
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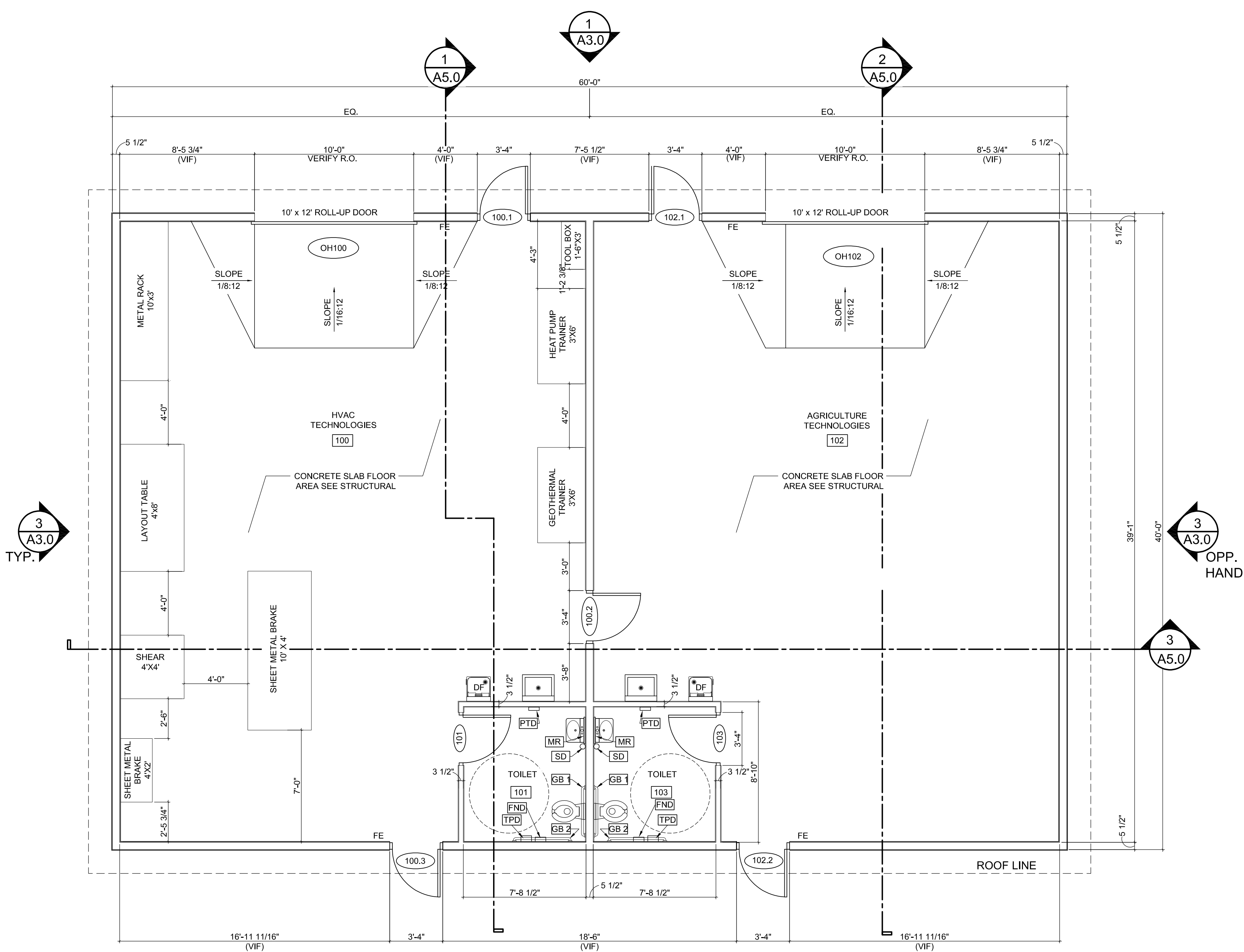


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C4.0

SHEET NO.





1 FLOOR PLAN  
A2.0

SCALE 1/4"=1'-0"

GENERAL NOTES

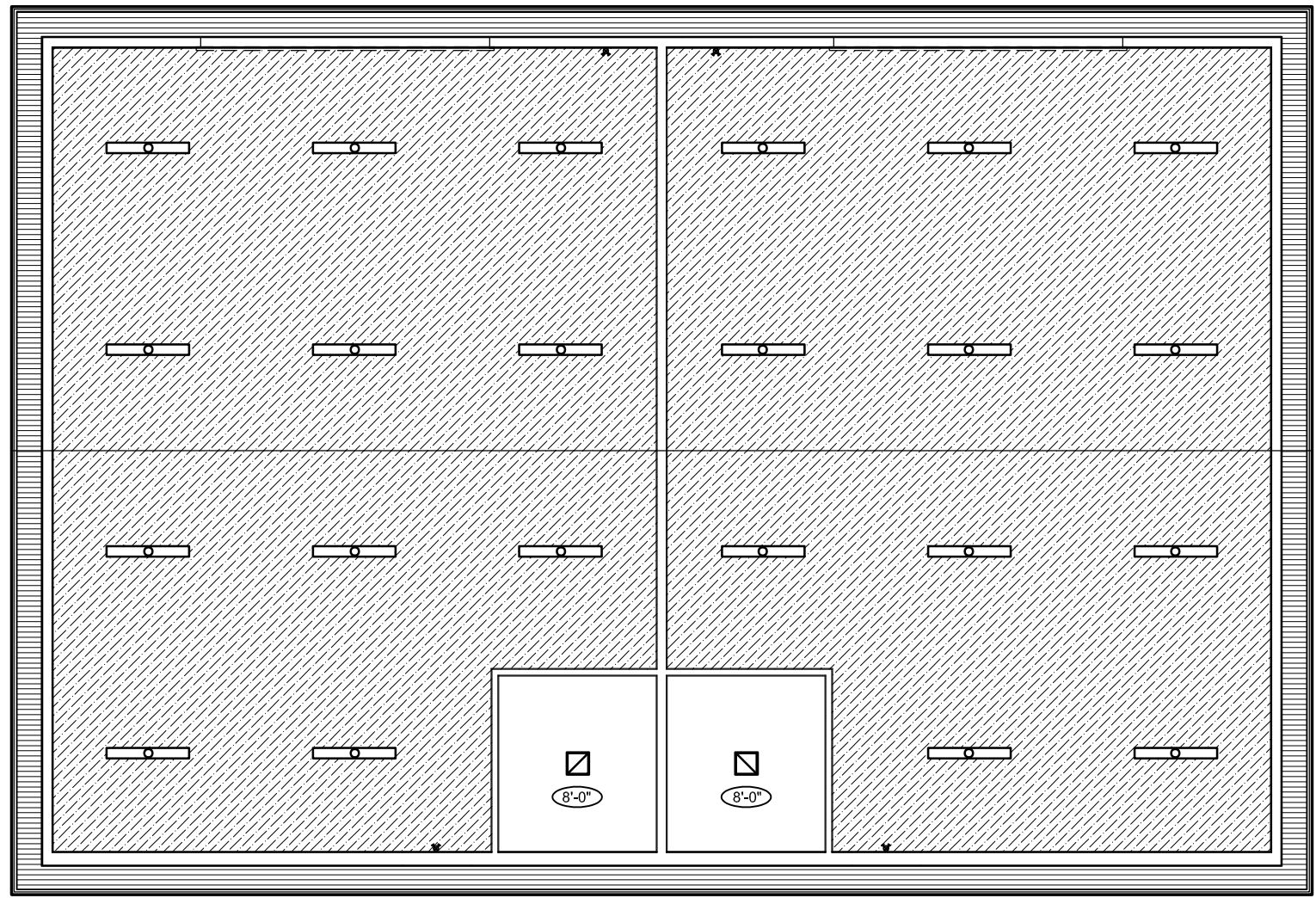
- FOR TOILET ACCESSORIES AND MOUNTING HEIGHTS REF. A3.0
- UTILITY SINK TO BE IN EACH TECHNOLOGY SPACE. ALLOW FOR 1'-4" CLEARANCE FROM WALL TO  $\phi$  OF FIXTURE AND A MINIMUM OF 2'-0" BETWEEN OUTSIDE EDGE OF WATER COOLER AND OUTSIDE EDGE OF FIXTURE.

WALL LEGEND

- EXTERIOR WALL - 2x6 WOOD STUD FRAMING
- INTERIOR STUD WALL (2X6 WOOD STUD FRAMING WITH 3 1/2" SOUND BATT INSULATION AT CENTER WALL, 2X4 WOOD STUD FRAMING WITH 3 1/2" SOUND BATT INSULATION AT TOILET ROOM WALLS & CEILING FRAMING)

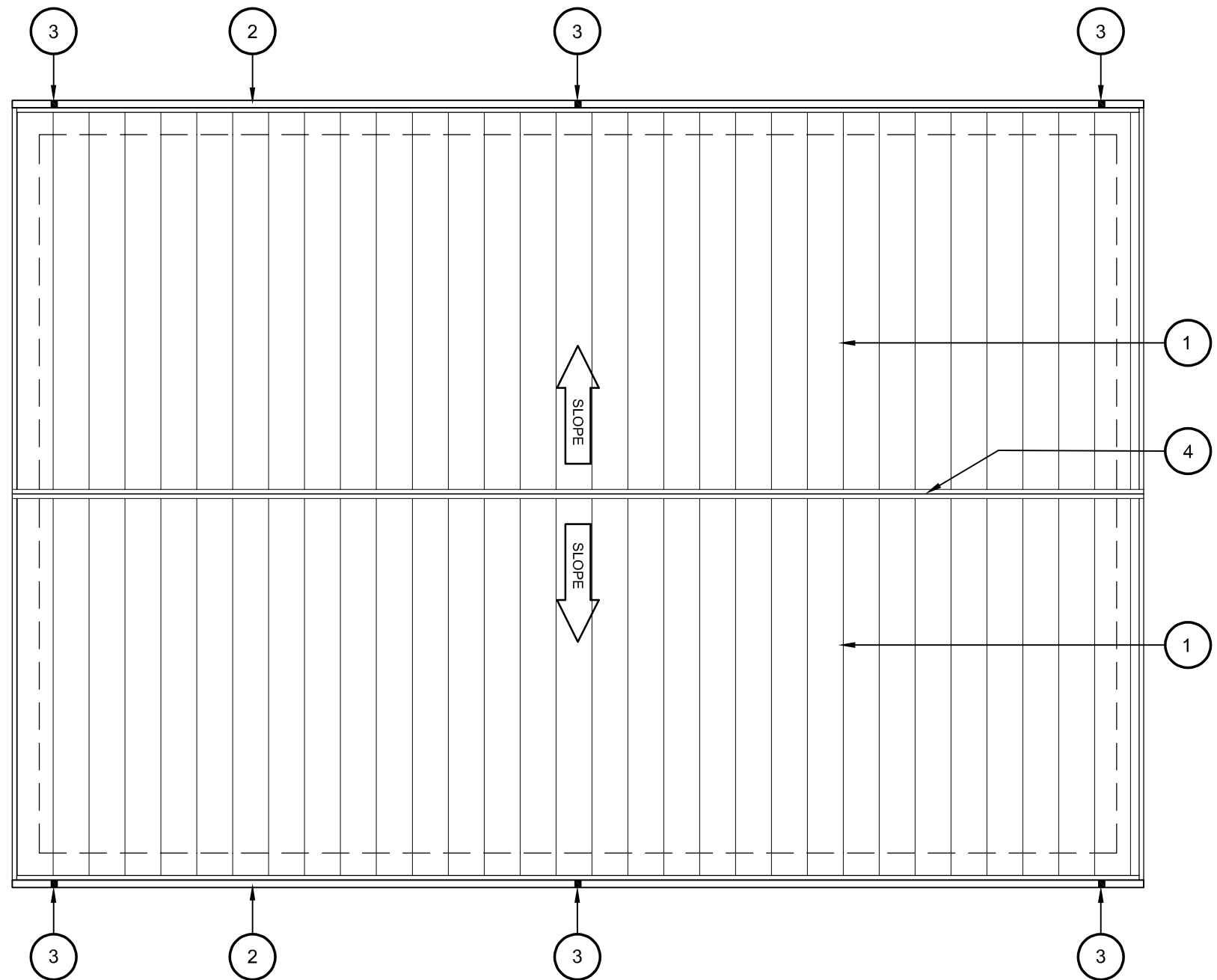
CEILING LEGEND

- PAINTED PLYWOOD CEILING
- EXPOSED CEILING
- CORRUGATED METAL SOFFIT
- LINEAR SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EMERGENCY EGRESS WALL MOUNTED LIGHT FIXTURE



2 REFLECTED CEILING PLAN  
A2.0

SCALE 1/8"=1'-0"

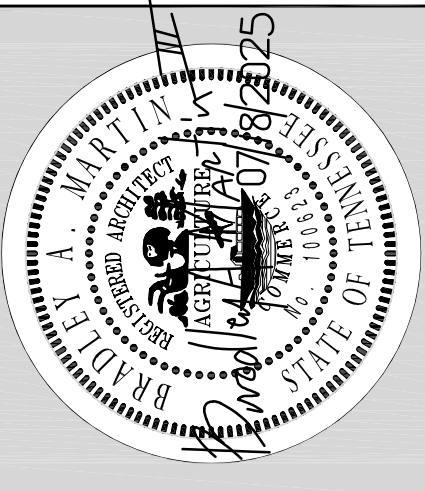


3 ROOF PLAN  
A2.0

SCALE 1/8"=1'-0"

KEY NOTES TO ROOF PLAN

- STANDING SEAM METAL ROOF SYSTEM, COLOR TO BE GALVALUME
- PRE-FINISHED CONTINUOUS METAL GUTTER
- PRE-FINISHED METAL DOWNSPOUTS
- METAL RIDGE CAP TO MATCH ROOF PANEL WITH CLOSURE PANELS



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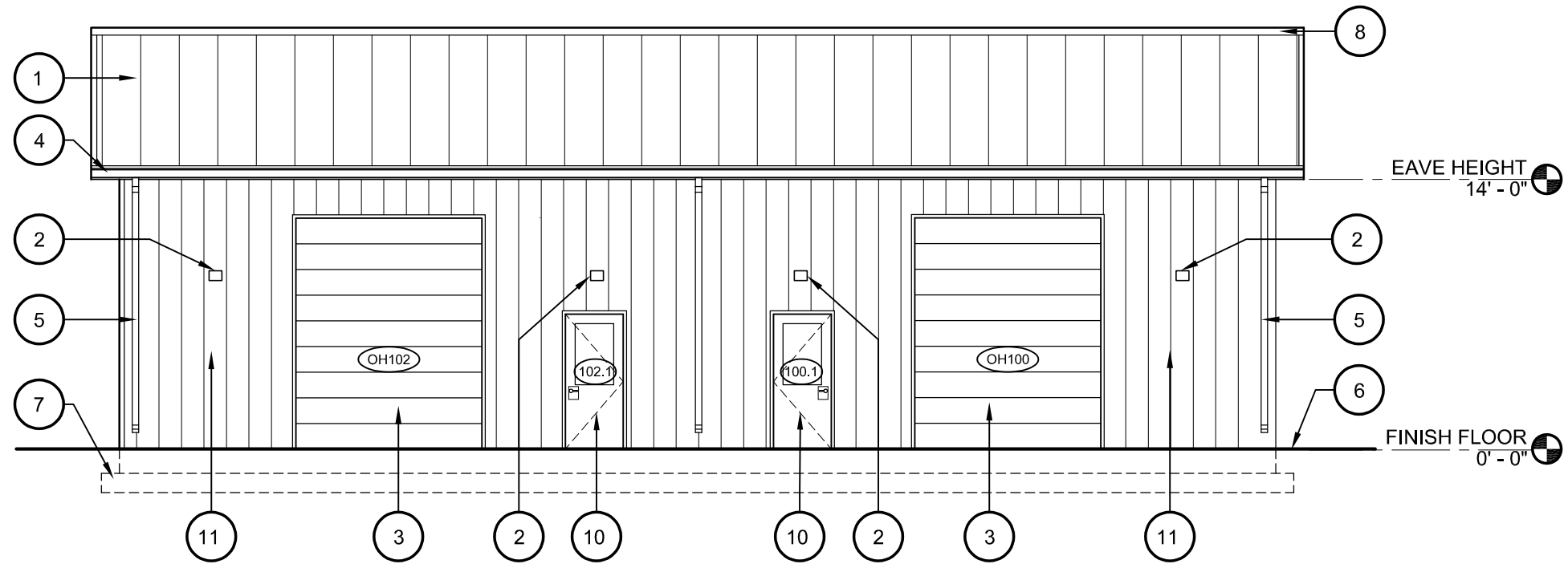
FLOOR PLAN, REFLECTED CEILING & ROOF PLAN

Project No.	1402.1
Issue Date	07/18/2025
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Revision Date	
Revision Date	

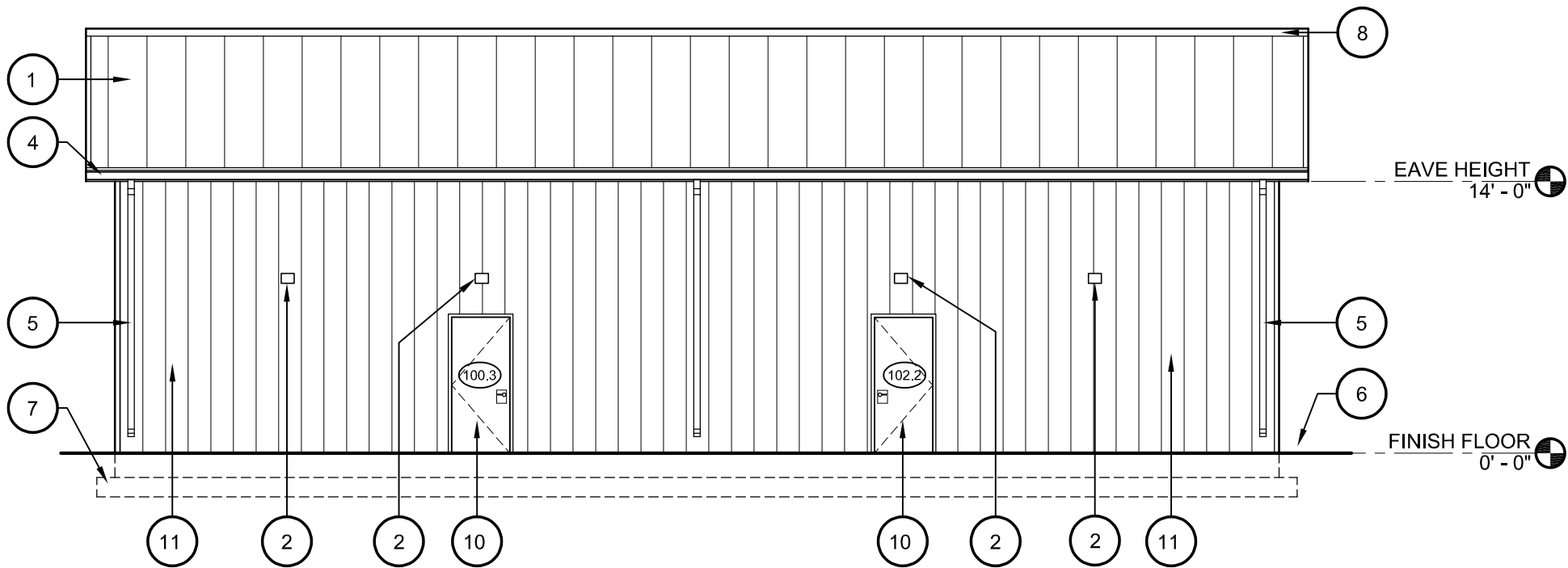
A2.0

SHEET NO.

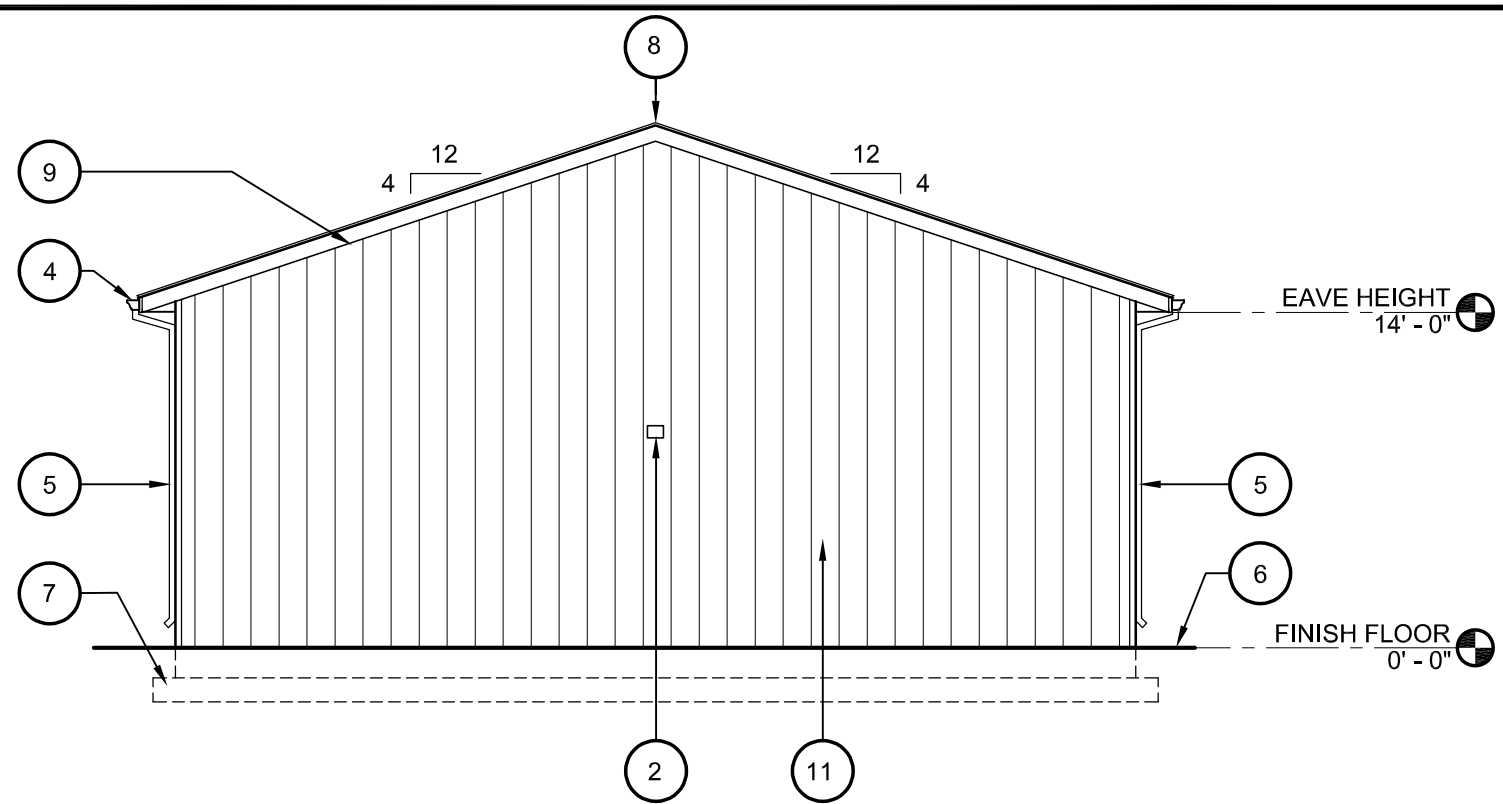




1 BUILDING ELEVATION  
A3.0 SCALE 1/8"=1'-0"



2 BUILDING ELEVATION  
A3.0 SCALE 1/8"=1'-0"



3 BUILDING ELEVATION  
A3.0 END WALL, TYP. SCALE 1/8"=1'-0"

KEY NOTES TO EXTERIOR ELEVATIONS

- 1 PRE-FINISHED STANDING SEAM METAL ROOFING SYSTEM.

2 EXTERIOR LIGHT FIXTURE- 9'-0" AFF. REF. ELECTRICAL

3 PREFINISHED INSULATING ROLL UP DOOR SYSTEM

4 PREFINISHED METAL GUTTER OVER PREFINISHED METAL FASCIA - RAKE TRIM SIMILAR.
- 5 5" x 4" PRE-FINISHED METAL DOWNSPOUT.

6 CONCRETE SIDEWALK &/OR GRADE.

7 BELOW GRADE FOUNDATION SYSTEM.

8 PRE-FINISHED METAL RIDGE CAP.
- 9 PRE-FINISHED BREAK METAL FASCIA

10 PAINTED EXTERIOR METAL DOOR & FRAME.

11 PREFINISHED METAL SIDING SYSTEM OVER COMMERCIAL GRADE AIR AND MOISTURE BARRIER (WRAP) OVER 3/4" PLYWOOD SHEATHING. PROVIDE SYSTEM COMPATIBLE PREFINISHED METAL FLASHING AT BOTTOM OF METAL PANEL SYSTEM.

DOOR SCHEDULE													
DOOR NO.	DOOR				FRAME		DETAILS			FIRE RATING	HARDWARE SET	REMARKS	DOOR NO.
	SIZE	MAT.	TYPE	GLASS	MAT.	TYPE	JAMB	HEAD	SILL				
100.1	3'-0" X 7'-0"	HM	B	IG/TEMP	HM	F2	6/A3.0	7/A3.0	-	-	2		100.1
100.2	3'-0" X 7'-0"	HM	A	-	HM	F2	4/A3.0	4/A3.0 SIM.	-	-	4		100.2
100.3	3'-0" X 7'-0"	HM	A	-	HM	F2	6/A3.0	7/A3.0	-	-	1		100.3
OH100	10' x 12' ROLL-UP	STL	C	-	STL	-	-	-	-	-	-		OH100
101	3'-0" X 7'-0"	HM	A	-	HM	F2	5/A3.0	5/A3.0 SIM.	-	-	3		101
102.1	3'-0" X 7'-0"	HM	B	IG/TEMP	HM	F2	6/A3.0	7/A3.0	-	-	2		102.1
102.2	3'-0" X 7'-0"	HM	A	-	HM	F2	6/A3.0	7/A3.0	-	-	1		102.2
OH102	10' x 12' ROLL-UP	STL	C	-	STL	-	-	-	-	-	-		OH102
103	3'-0" X 7'-0"	HM	A	-	HM	F2	5/A3.0	5/A3.0 SIM.	-	-	3		103

DOOR SCHEDULE ABBREVIATIONS

HM HOLLOW METAL  
TEMP TEMPERED  
STL STEEL  
IG/TEMP INSULATING GLASS/TEMPERED

DOOR SCHEDULE GENERAL NOTES

- A. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINT GRIP GALVANIZED FROM MANUFACTURER PRIOR TO PAINTING.

ROOM FINISH SCHEDULE																	
ROOM NO.	ROOM NAME	FLR.	BASE	WALLS								CEILING			NOTES	ROOM NO.	
				NORTH		SOUTH		EAST		WEST		MAT.	FIN.	HGT.			
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.								
100	HVAC TECHNOLOGIES	SC	RCB	PLWD	SS	PT-2	SS	PT-2	SS	PT-2	SS	PT-2	EXP	PT-1	VAR	1	100
101	TOILET	SC	RCB	SS	PT-2	SS	PT-2	SS	PT-2	SS	PT-2	PLWD	PT-2	8'-0"		1	101
102	AGRICULTURE TECHNOLOGIES	SC	RCB	PLWD	SS	PT-2	SS	PT-2	SS	PT-2	SS	PT-2	EXP	PT-1	VAR	1	102
103	TOILET	SC	RCB	SS	PT-2	SS	PT-2	SS	PT-2	SS	PT-2	PLWD	PT-2	8'-0"		1	103

FINISH SCHEDULE ABBREVIATIONS

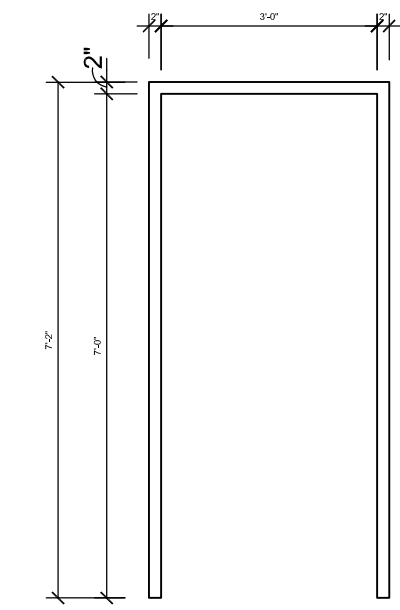
SC SEALED CONCRETE  
RCB RUBBER COVE BASE  
PLWD PLYWOOD  
SS "SMART SIDE" PANELS OR EQUAL  
EXP EXPOSED

PT PT-1 PAINT  
PT-2 WHITE INTUMESCENT COATING, OVER SPRAY FOAM INSULATION, APPLIED AS A FINISHED SURFACE  
PT-2 LATEX PAINT, COLOR TO BE COORDINATED WITH OWNER & ARCHITECT

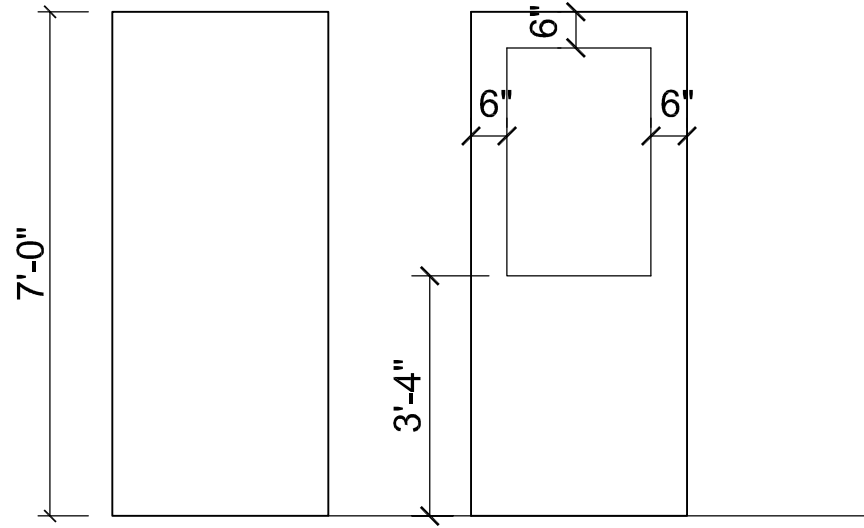
FINISH SCHEDULE NOTES

1. CLEAN ALL CONCRETE FLOORS THOROUGHLY & APPLY ASHFORD FORMULA FOR CONCRETE DENSIFICATION SYSTEM OR EQUAL.. FOLLOW ASHFORD'S INSTRUCTION FOR PROPER INSTALLATION WITH SYSTEMS APPLICABLE CLEANSERS, PREP, ETC.

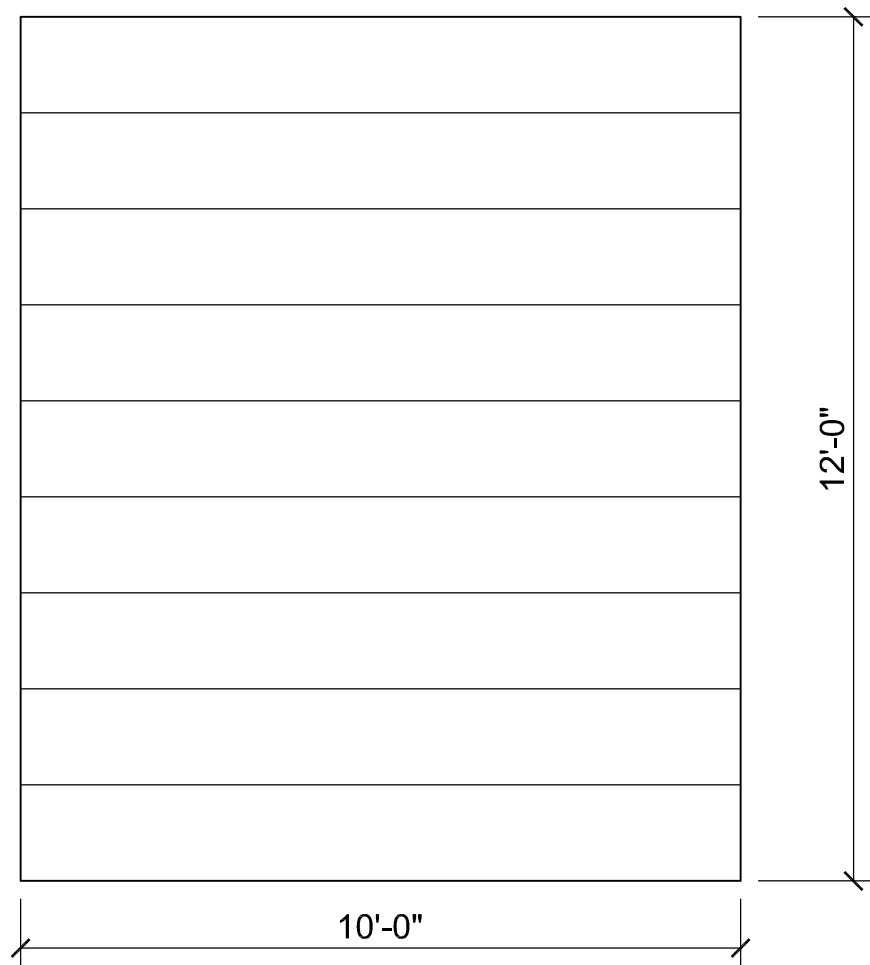
TOILET ACCESSORIES					TOILET ABBREVIATIONS	
DESIGN	TYPE/STYLE	MODEL NO.	MOUNTING HEIGHT	REMARKS		
TPD	OFOI			OWNER FURNISHED, OWNER INSTALLED	FND	FEMININE NAPKIN DISPOSAL
GB 1	1 1/2" DIA. 42" C/C, CFCI	BOBRICK B-6806 x 42"	34" HIGH TO t OF GRAB BAR. 1'-0" OFF OF BACK WALL OF STALL.	PROVIDE BLOCKING AND INSTALLATION TO SUPPORT 250 LB LOAD APPLIED AT ANY POINT IN ANY DIRECTION.	GB	HANDICAPPED GRAB BARS
GB 2	1 1/2" DIA. 36" C/C, CFCI	BOBRICK B-6806 x 36"	34" HIGH TO t OF GRAB BAR. 8" OFF OF SIDE WALL ADJACENT TO TOILET.	PROVIDE BLOCKING AND INSTALLATION TO SUPPORT 250 LB LOAD APPLIED AT ANY POINT IN ANY DIRECTION.	OFOI	OWNER FURNISHED OWNER INSTALLED
PTD	OFOI			OWNER FURNISHED, OWNER INSTALLED	CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
SD	OFOI			OWNER FURNISHED, OWNER INSTALLED	PTD	PAPER TOWEL DISPENSER
FND	CFCI	BOBRICK B-270	28" TO TOP OF UNIT. 8" FROM FRONT OF TOILET TO CENTER OF DISPENSER. OPPOSITE OF TPD	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	TPD	TOILET PAPER DISPENSER
MIR	CFCI	BOBRICK B166 2436	40" AFF TO BOTTOM OF ACCESSORY	24" X 36" SURFACE MOUNT CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	SD	SOAP DISPENSER
					MIR	MIRROR



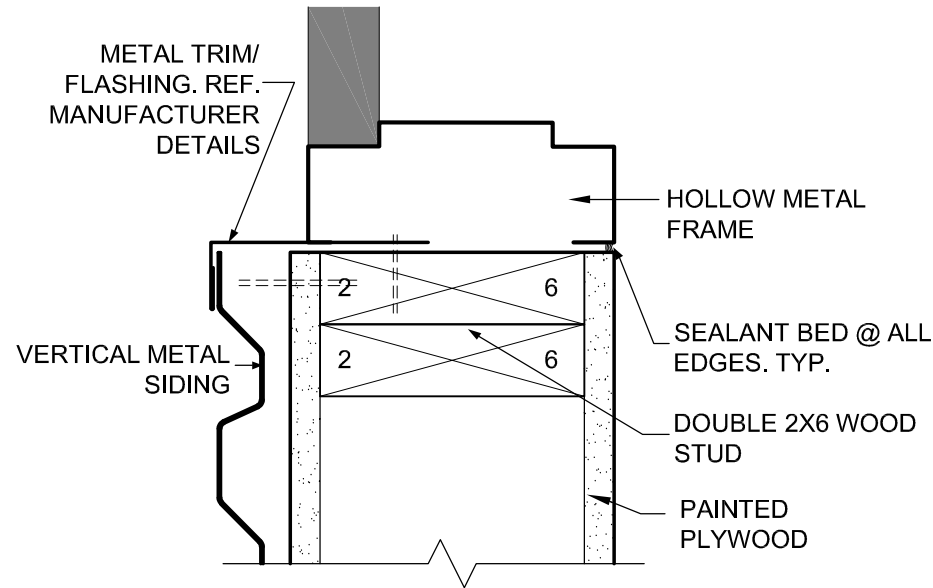
4 JAMB DETAIL  
A3.0 HEAD SIM. SCALE 3/8" = 1'-0"



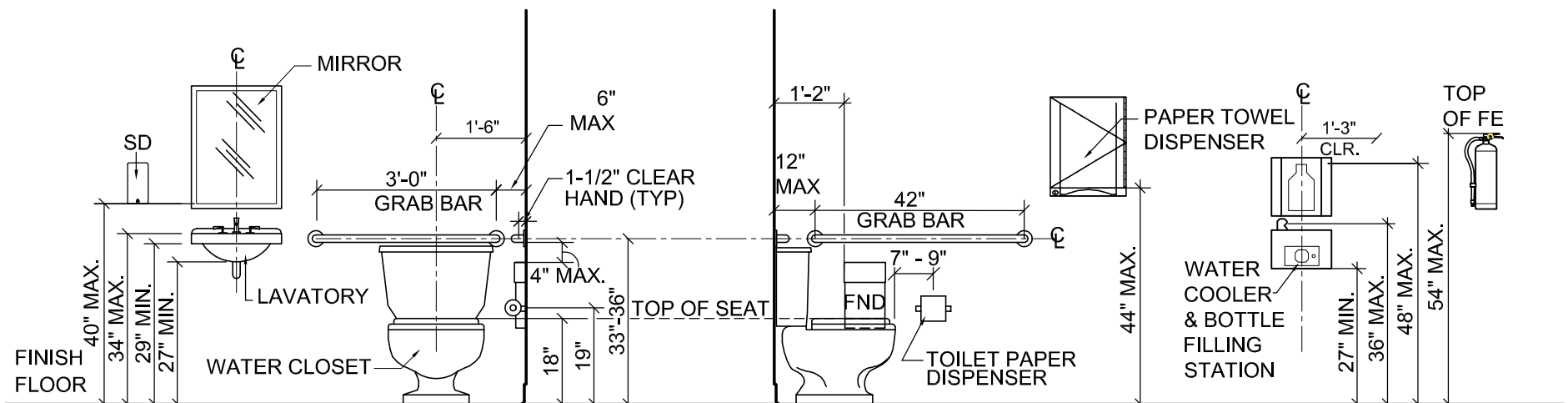
5 JAMB DETAIL  
A3.0 HEAD SIM. SCALE 3/8" = 1'-0"



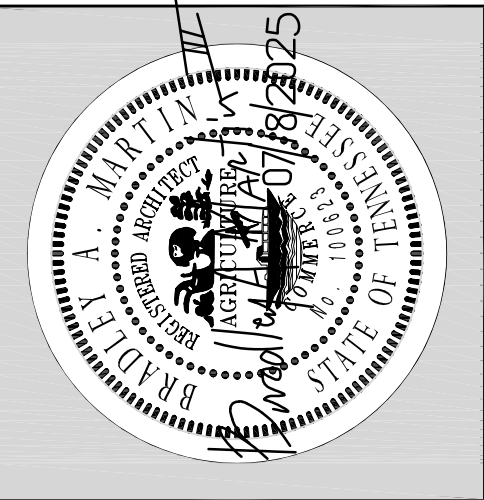
6 HEAD/JAMB DETAIL  
A3.0 SCALE 3"=1'-0"



7 HEAD DETAIL  
A3.0 SCALE 3"=1'-0"



TYPICAL HANDICAP DETAILS  
& MOUNTING HEIGHTS SCALE 3/8"=1'-0"



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**EAST HICKMAN HIGH SCHOOL**

**AGRICULTURAL/VOCATIONAL**

**EDUCATION BUILDING**

**LYLES, TENNESSEE**

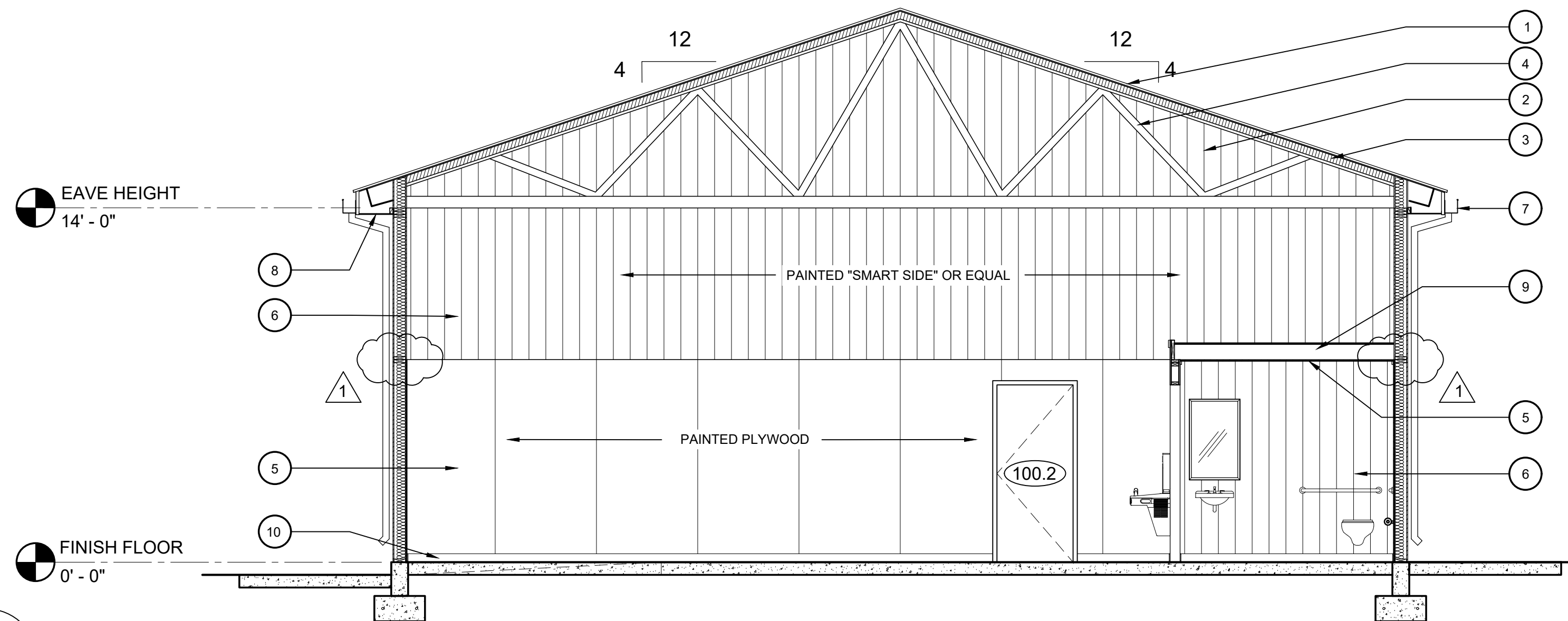
**ELEVATIONS & SCHEDULES**

1402.1	07/18/2025	CJC			
Project No.	Issue Date	Drawn By	Revision Date	Revision Date	Revision Date

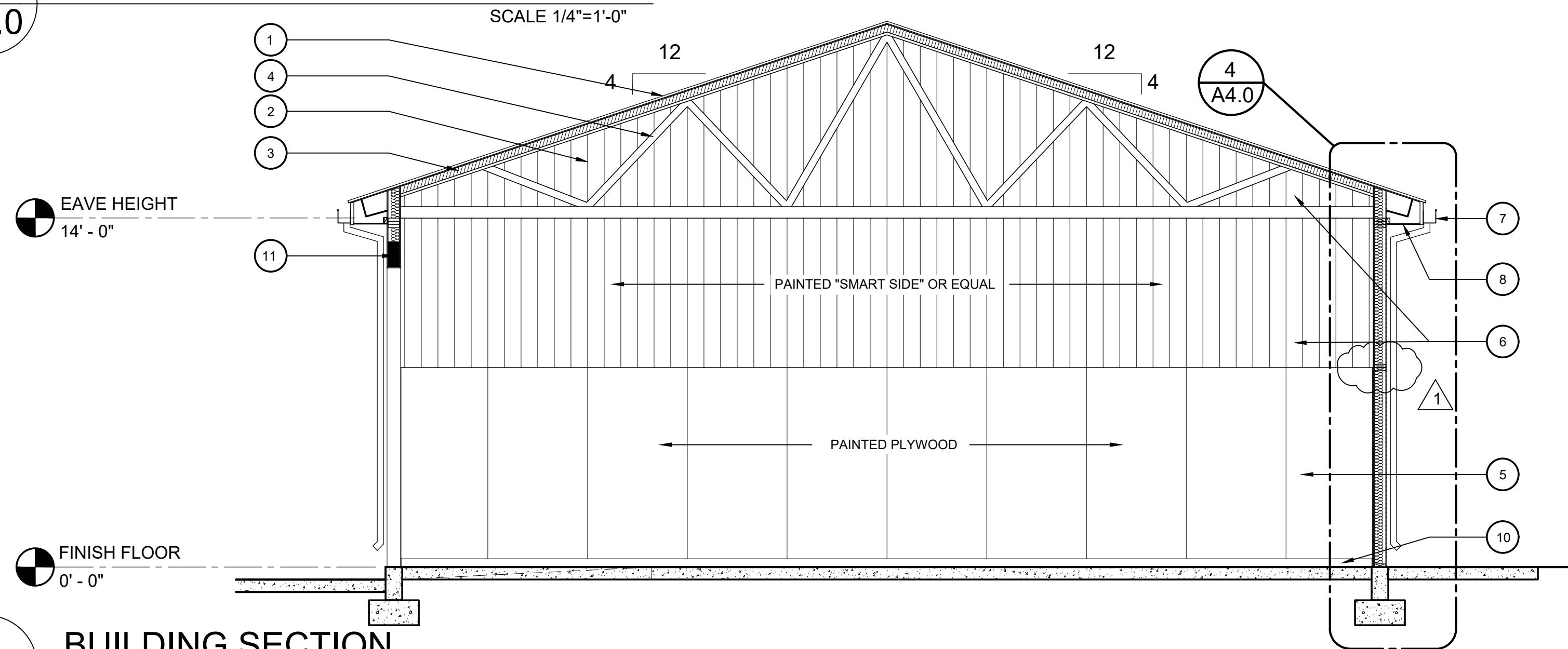
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SHEET NO.

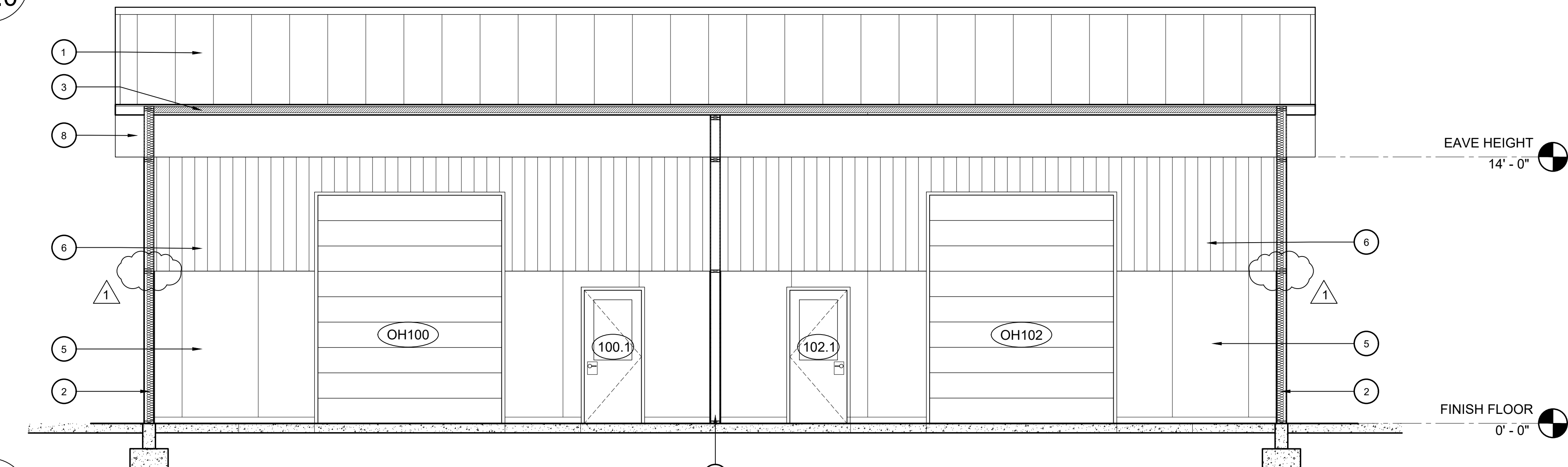




1  
A4.0  
BUILDING SECTION  
SCALE 1/4"=1'-0"



2  
A4.0  
BUILDING SECTION  
SCALE 1/4"=1'-0"



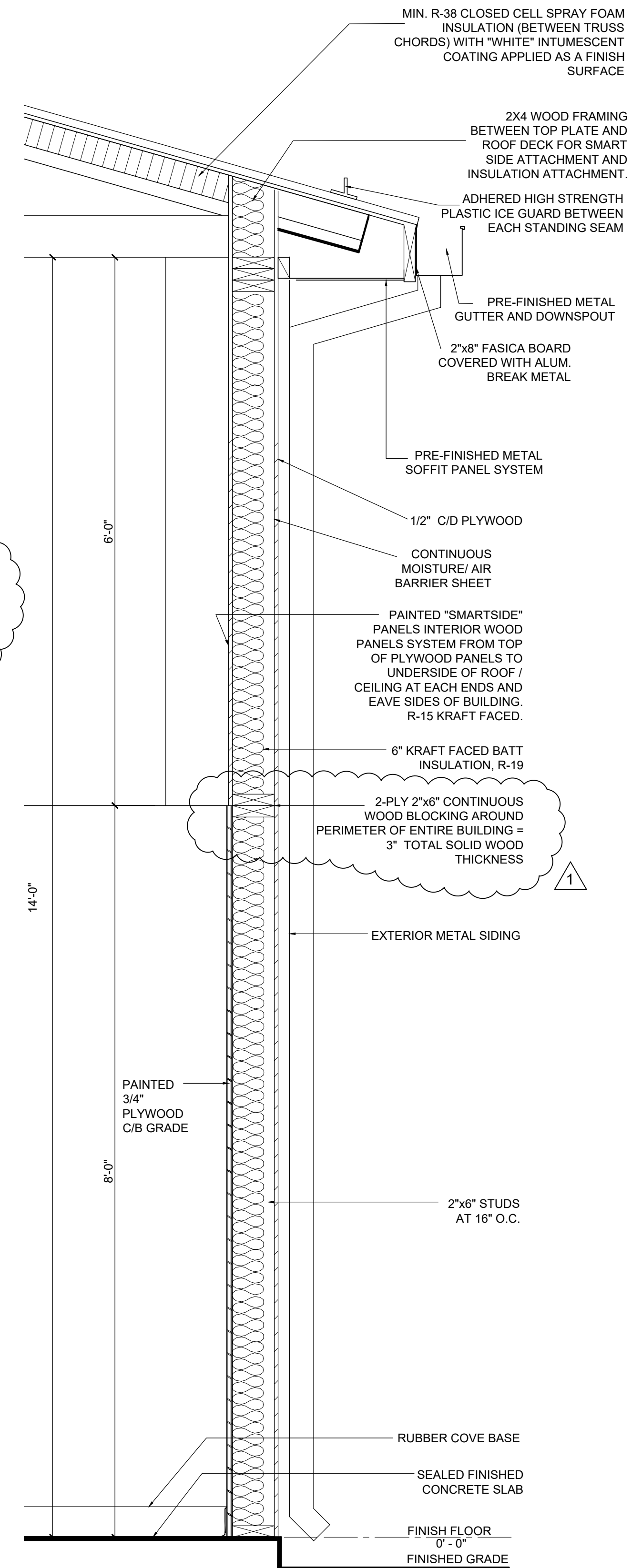
3  
A4.0  
BUILDING SECTION  
SCALE 1/4"=1'-0"

#### KEY NOTES TO BUILDING SECTIONS

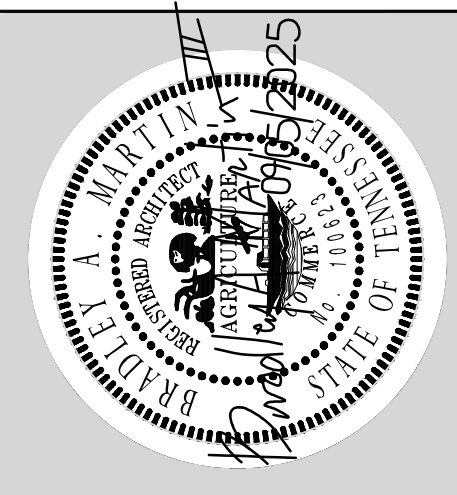
- 1 PRE-FINISHED STANDING SEAM METAL ROOFING SYSTEM.
- 2 INSULATED END WALLS FROM FLOOR TO UNDERSIDE OF ROOF DECK - EA. SIDE
- 3 MIN. R-38 CLOSED CELL. SPRAY FOAM INSULATION WITH INTUMESCENT COATING APPLIED AS A FINISH MATERIAL OVER SPRAY FOAM.
- 4 WOODEN TRUSS SYSTEM. REF. STRUCTURAL
- 5 PAINTED PLYWOOD. REF. FINISH SCHEDULE
- 6 PAINTED "SMART SIDE" PANELS. REF. FINISH SCHEDULE
- 7 PRE-FINISHED METAL GUTTER & DOWNSPOUT
- 8 CORRUGATED METAL SOFFIT
- 9 2X8 CEILING JOISTS @ 16" O.C., TYP. REF. STRUCTURAL
- 10 4" RUBBER COVE BASE
- 11 LINTEL. REF. STRUCTURAL
- 12 2X6 WOOD FRAMED WALL WITH 3 1/2" SOUND BATT INSULATION IN ENTIRE WALL FROM SLAB TO ROOF DECK

#### NOTES TO FLOOR SLAB INSULATION

INSTALL MIN. 2" THICK, CONTINUOUS EXTRUDED FOAM PERIMETER SLAB INSULATION AT ENTIRE EDGE OF SLAB &/OR FOUNDATION. PLACE VERTICAL INSULATION BOARD AT INSIDE FACE OF ALL FOUNDATION WALLS BELOW SLAB AND EXTEND A MIN. 3'-0" HORIZONTALLY UNDER FLOOR SLAB ALL AROUND BUILDING.



4  
A4.0  
WALL SECTION  
SCALE 1"=1'-0"



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EAST HICKMAN HIGH SCHOOL  
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EDUCATION BUILDING  
LYLES, TENNESSEE  
BUILDING SECTIONS

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	CJC
Revision Date	09.05.2025
Revision Date	
Revision Date	

A4.0

SHEET NO.



- GENERAL NOTES**
- A. DESIGN LOADS AND CODE INFORMATION:**
- THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS BEFORE STARTING WORK.
  - THE STRUCTURE IS DESIGNED BASED ON THE 2012 INTERNATIONAL BUILDING CODE. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AND ITS REFERENCED CODES AND STANDARDS.
  - THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - DESIGN LIVE LOADS:  
20 PSF ROOF LIVE LOAD (REDUCTIONS ALLOWED FOR TRIBUTARY AREA)  
20 PSF CEILING LIVE LOAD
  - SNOW LOADS:  
GROUND SNOW LOAD, Pg = 10.0 PSF  
ROOF SNOW LOAD, Pf = 7.7 PSF  
EXPOSURE FACTOR, Ce = 1.0  
IMPORTANCE FACTOR, I = 1.0  
THERMAL FACTOR, Ct = 1.1
  - WIND DATA:  
115 MPH WIND LOAD PER ASCE 7-10 FOR BUILDINGS  
UNDER 60 FEET IN TOTAL HEIGHT  
RISK CATEGORY II  
EXPOSURE CATEGORY = C  
VELOCITY PRESSURE, qh = 15.4 PSF
  - SEISMIC DATA:  
IMPORTANCE FACTOR, I = 1.0  
SEISMIC RISK CATEGORY II  
SPECTRAL RESPONSE ACCELERATION, Ss = 0.379  
SPECTRAL RESPONSE ACCELERATION, S1 = 0.169  
SITE CLASS D (ASSUMED)  
SPE CLASS D (ASSUMED)  
SPECTRAL RESPONSE COEFFICIENT, SDS = 0.378  
SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.239  
DESIGN CATEGORY D  
BASIC FORCE RESISTING SYSTEM -  
LIGHT FRAME SHEAR PANEL OF WOOD: R=6.5, Cd=4.0
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- ALL HANDRAILS AND GUARDRAILS SHALL BE DESIGNED FOR THE BASE MINIMUM REQUIRED LIVE UNIFORM AND CONCENTRATED LOADS AS SPECIFIED BY THE BUILDING CODE.
  - CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES REQUIRED TO FURNISH A COMPLETE JOB AND EXECUTE ALL ITEMS SHOWN OR INDICATED ON THESE DRAWINGS.
  - STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.

- B. FOUNDATION NOTES:**
- A GEOTECHNICAL REPORT HAS NOT BEEN SUPPLIED TO THE STRUCTURAL ENGINEER. FOUNDATIONS ARE DESIGNED ON THE ASSUMPTIONS STATED IN THE FOLLOWING NOTES. ALL ASSUMPTIONS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
  - PROOF-ROLL THE SITE UNDER OBSERVATION OF GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF ANY STRUCTURAL FILL AND PRIOR TO FOUNDATION CONSTRUCTION. ANY SOFT OR UNSUITABLE MATERIALS REVEALED, AS DICTATED BY THE GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED WITH COMPACTED FILL. ADDITIONAL SUBGRADE STABILIZATION REQUIREMENTS, IF NEEDED, WILL BE DETERMINED AT THE TIME OF SITE PREPARATION AND DICTATED BY THE GEOTECHNICAL ENGINEER.
  - DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF DESIGN PRESSURES SHALL BE CONFIRMED IN THE FIELD BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
  - AFTER OPENING, FOOTINGS SHOULD BE INSPECTED AND CONCRETE PLACED AS SOON AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. IF EXCAVATIONS ARE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF SOIL MOISTURE.

- C. CONCRETE NOTES:**
- NORMAL WEIGHT CONCRETE SHALL CONFORM TO THE FOLLOWING:

STRUCTURAL MEMBER	MIN. COMPRESSIVE STRENGTH AT 28 DAYS	TOTAL AIR	MAXIMUM W/C RATIO	SLUMP (IN.)
SLAB-ON-GRADE	3500 PSI	N/A	0.55	4

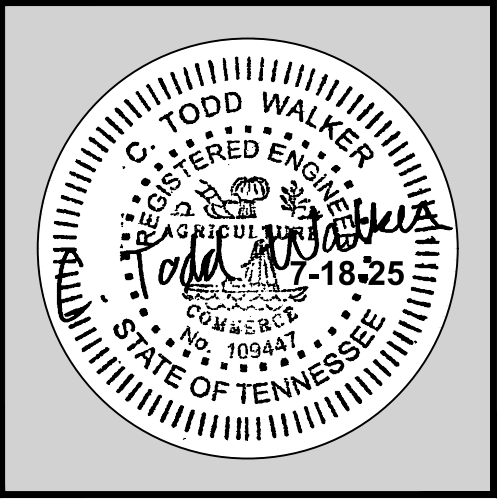
SEE CIVIL DRAWINGS FOR EXTERIOR EXPOSED CONCRETE
  - ALL REINFORCING STEEL TO BE DEFORMED BARS ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185.
  - MINIMUM BAR LAP SPLICE TO BE 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.
  - CONCRETE COVER:  
SLABS-ON-GRADE - 1-1/2" FROM TOP OF SLAB TO WWF  
FOOTINGS - 3"
  - ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING: (LATEST EDITION)  
ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"  
ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"  
ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"  
CRSI "MANUAL OF STANDARD PRACTICE"
  - ALL FORMWORK SHALL COMPLY WITH ACI 347.
  - ALL CONCRETE SHALL BE READY-MIXED CONFORMING TO ASTM C94.
  - CONCRETE PRODUCTS SHALL CONSIST OF THE FOLLOWING:  
PORTLAND CEMENT COMPLYING WITH ASTM C150.  
AGGREGATES COMPLYING WITH ASTM C33.  
POTABLE WATER  
WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM C494, TYPE A OR D  
HIGH-RANGE WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM 494, TYPE F  
AIR ENTRAINING ADMIXTURE COMPLYING WITH ASTM C260  
ACCELERATOR ADMIXTURE COMPLYING WITH ASTM C494, TYPE C OR E  
FLY ASH (LIMIT CONTENT TO 20% TOTAL WEIGHT OF CEMENT PLUS FLY ASH)  
(ADMIXTURES CONTAINING MORE THAN 0.1% CALCIUM CHLORIDE ARE NOT ALLOWED)
  - IN HOT WEATHER, COMPLY WITH ACI 305.
  - IN COLD WEATHER, COMPLY WITH ACI 306.
  - PROVIDE TROWEL FINISH FOR INTERIOR SLABS AND BROOM FINISH FOR EXTERIOR SLABS, UNLESS NOTED OTHERWISE.
  - PROVIDE CORNER BARS AT JUNCTION OF ALL STRIP FOOTINGS.
  - REINFORCING BARS EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
  - REINFORCING BARS SHALL NOT BE WELDED OR HEATED IN THE FIELD WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
  - ALL REINFORCING SHALL BE PROPERLY SECURED IN PLACE BEFORE CONCRETE PLACEMENT. PLACEMENT OF BARS INTO FRESH OR SET CONCRETE WILL NOT BE ALLOWED.
  - SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302.1R. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT.
  - REINFORCING STEEL PLACEMENT DRAWINGS (SHOP DRAWINGS) SHALL BE SUBMITTED FOR REVIEW PRIOR TO PLACEMENT OF REINFORCEMENT IN THE FIELD. THESE DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT," PART B (RESPONSIBILITIES OF THE DETAILER).
  - WELDED WIRE FABRIC SHALL BE SUPPLIED IN SHEETS. ROLLS ARE NOT ALLOWED.

- D. WOOD FRAMING AND ROUGH CARPENTRY NOTES:**
- FRAMING MEMBERS SHALL BE NO. 2 GRADE SOUTHERN PINE WITH 19% MAXIMUM MOISTURE CONTENT. OTHER SPECIES OF EQUAL STRENGTH MAY BE USED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
  - NO. 2 SPRUCE-PINE-FIR (SPF) STUDS MAY BE USED AT WALL FRAMING, UNLESS NOTED OTHERWISE.
  - BLOCKING SHALL BE PROVIDED FOR ALL WALLS AT MID-HEIGHT BETWEEN SUPPORT POINTS
  - FRAMING SHALL BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE ON THESE DRAWINGS.
  - SHEATHING SHALL MEET APA PERFORMANCE STANDARDS AND STRESS RATING.
  - ATTACHMENT OF WOOD FRAMING MEMBERS SHALL BE IN CONFORMANCE WITH THESE DRAWINGS AND THE INTERNATIONAL BUILDING CODE, 2012 EDITION, CHAPTER 23; WHICHEVER IS MORE STRINGENT.
  - LVL BEAMS SHALL BE EQUAL TO THOSE PROVIDED BY BOISE CASCADE. PROVIDE VERSA-LAM 2.0 3100 MINIMUM STRENGTH LVL BEAMS.
  - ALL CONNECTORS AND FASTENERS MUST BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATION. INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL, OR FINISH MAY RESULT IN FAILURE OF CONNECTION.
  - UNLESS NOTED OTHERWISE, 8d, 10d, 12d, AND 16d SPECIFIES COMMON NAILS.
  - PROVIDE CORROSION INHIBITIVE CONNECTOR AND FASTENER COATINGS AND/OR MATERIALS FOR PRESSURE-TREATED LUMBER BASED ON PUBLISHED INDUSTRY STANDARDS FOR TYPE OF PRESERVATIVE TREATMENT USED. SUBMIT DOCUMENTATION REGARDING PRODUCTS SELECTED AND PRESERVATIVE TYPES UTILIZED.

- E. PREFABRICATED WOOD TRUSS NOTES:**
- PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH THE TRUSS PLATE INSTITUTE RECOMMENDATIONS. PREFABRICATED WOOD TRUSS SUPPLIER'S ENGINEER IS THE DELEGATED ENGINEER RESPONSIBLE FOR DESIGN OF THE ROOF TRUSSES TO MEET THE DESIGN LOADS STATED HEREIN AND CONFORM TO THE ANSI / AF&PA NDS CODE AND ALL STATE AND LOCAL CODES. WOOD TRUSS SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER, REGISTERED IN THE STATE OF TENNESSEE, WHO PREPARED THEM.
  - TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:  
10 PSF TOP CHORD DEAD LOAD  
20 PSF TOP CHORD LIVE LOAD  
10 PSF BOTTOM CHORD DEAD LOAD  
TRUSS SELF-WEIGHT  
WIND UPLIFT IN ACCORDANCE WITH ASCE 7-10 BUILDING CODE. USE 5 PSF TOP CHORD DEAD LOAD AND 3 PSF BOTTOM CHORD DEAD LOAD AS RESISTANCE TO WIND UPLIFT.
  - WOOD TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO TRUSS FABRICATION AND ERECTION.
  - ANY FRAMING REQUIRED FOR SUPPORT OF EQUIPMENT OR ROOF OPENINGS SHALL BE DESIGNED AND PROVIDED BY TRUSS SUPPLIER'S ENGINEER.
  - PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN TRUSSES PLUMB, PARALLEL AND IN LOCATION INDICATED, UNTIL PERMANENT BRACING IS INSTALLED.
  - INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND TO COMPLY WITH OTHER INDICATED REQUIREMENTS, AS DICTATED BY THE TRUSS SUPPLIER'S ENGINEER.
  - ERECT AND BRACE WOOD TRUSSES IN COMPLIANCE WITH TRUSS PLATE INSTITUTE RECOMMENDATIONS.
  - ANCHOR TRUSSES SECURELY AT ALL BEARING POINTS AS REQUIRED TO WITHSTAND LIVE AND DEAD LOADS, WIND UPLIFT, AND LATERAL LOADS.
  - SPACE TRUSSES A MAXIMUM OF 2 FEET ON CENTER. SMALLER SPACINGS AS REQUIRED BY TRUSS DESIGN ARE ACCEPTABLE.

LINTEL SCHEDULE	
WALL TYPE	LINTEL SIZE - OPENINGS UP TO 6'-4" WIDE, U.N.O.
2x6 STUDS	(3) 2 x 8 w/(2)7/16" OSB FLITCH PLATES
2x4 STUDS	(2) 2 x 8 w/7/16" OSB FLITCH PLATE
MARK	LINTEL SIZE - FOR MARKED LOCATIONS
L1	(3) 1 3/4 x 11 7/8 LVL w/1/4" PLYWOOD FLITCH PLATE

**NOTES:**  
A) ALL LINTELS SHOWN IN NOMINAL SIZES.  
B) LINTELS MUST BE PROVIDED FOR MECHANICAL AS WELL AS ARCHITECTURAL OPENINGS.



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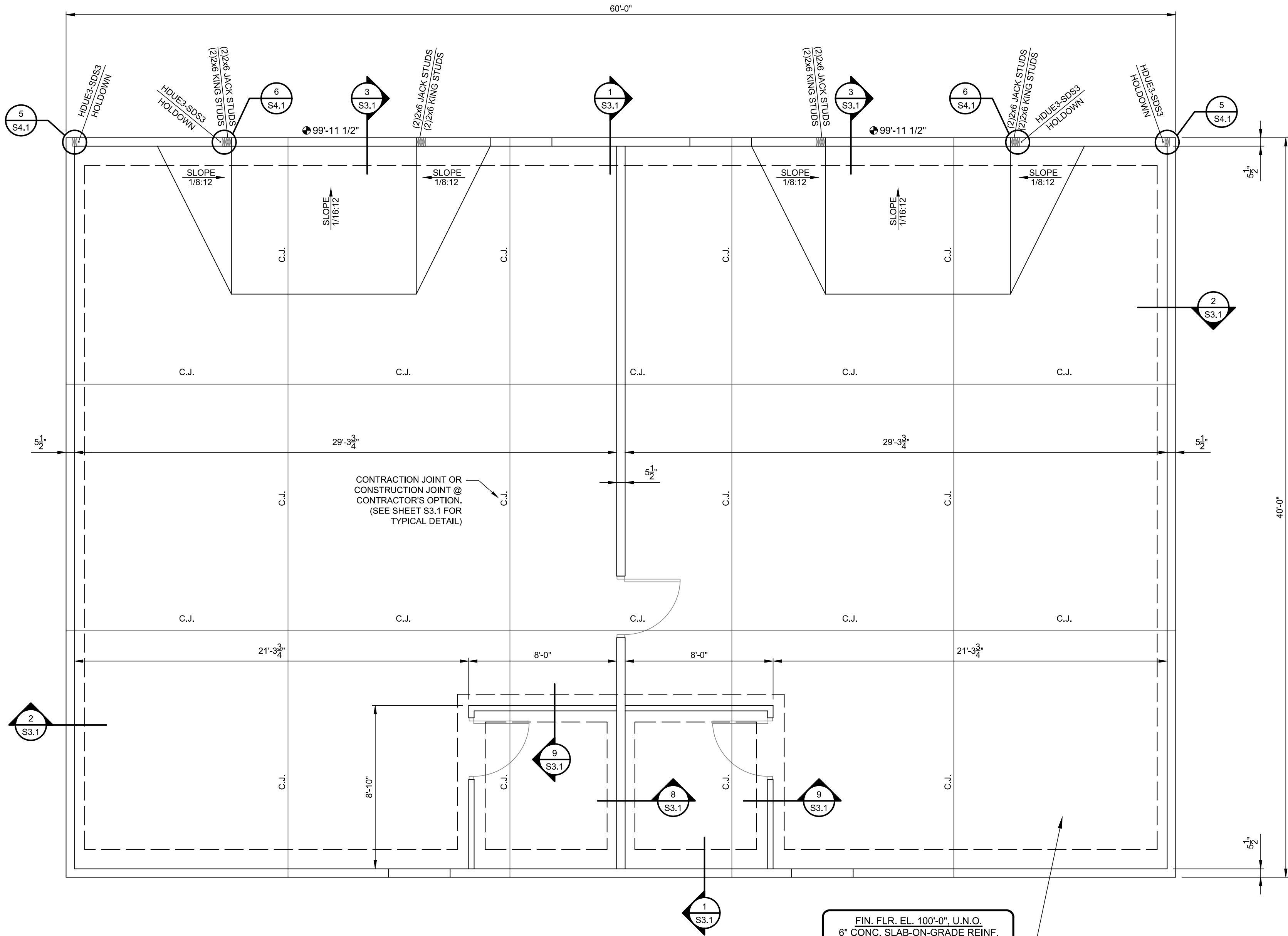
GENERAL NOTES & SCHEDULE

Project No.	1402.1	Drawn By	BKS	Revision Date	
Issue Date	7.18.2025	Revision Date		Revision Date	

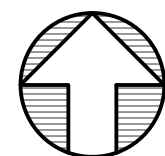
S1.0

SHEET NO.





PLAN NORTH



## FOUNDATION PLAN

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

- NOTES:
- SEE SHEET S1.0 FOR GENERAL NOTES & SCHEDULES.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN.
  - U.N.O. - UNLESS NOTED OTHERWISE.
  - FINISH FLOOR ELEVATION 100'-0" IS A REFERENCE ELEVATION ONLY. SEE SITE PLAN FOR ACTUAL ELEVATION.
  - F.V. - FIELD VERIFY.
  - SEE SHEET S3.1 FOR TYPICAL FOUNDATION DETAILS.
  - USE DOUBLE STUDS AT ALL WINDOWS, DOOR JAMBS, END OF WALLS, AND AT LINTEL BEARING LOCATIONS, U.N.O.

## EAST HICKMAN HIGH SCHOOL AGRICULTURAL/VOCATIONAL EDUCATION BUILDING LYLES, TENNESSEE

### FOUNDATION PLAN

Project No.	1402.1
Issue Date	7.18.2025
Drawn By	BKS
Revision Date	
Revision Date	
Revision Date	

**S1.1**  
SHEET NO.

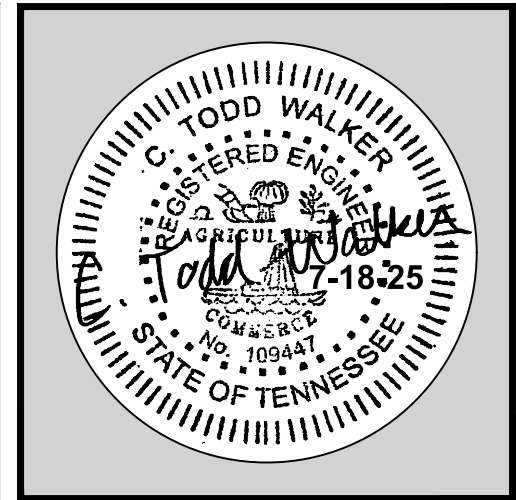
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ROOF FRAMING PLAN

Project No.	1402.1
Issue Date	7.18.2025
Drawn By	BKS
Revision Date	
Revision Date	
Revision Date	

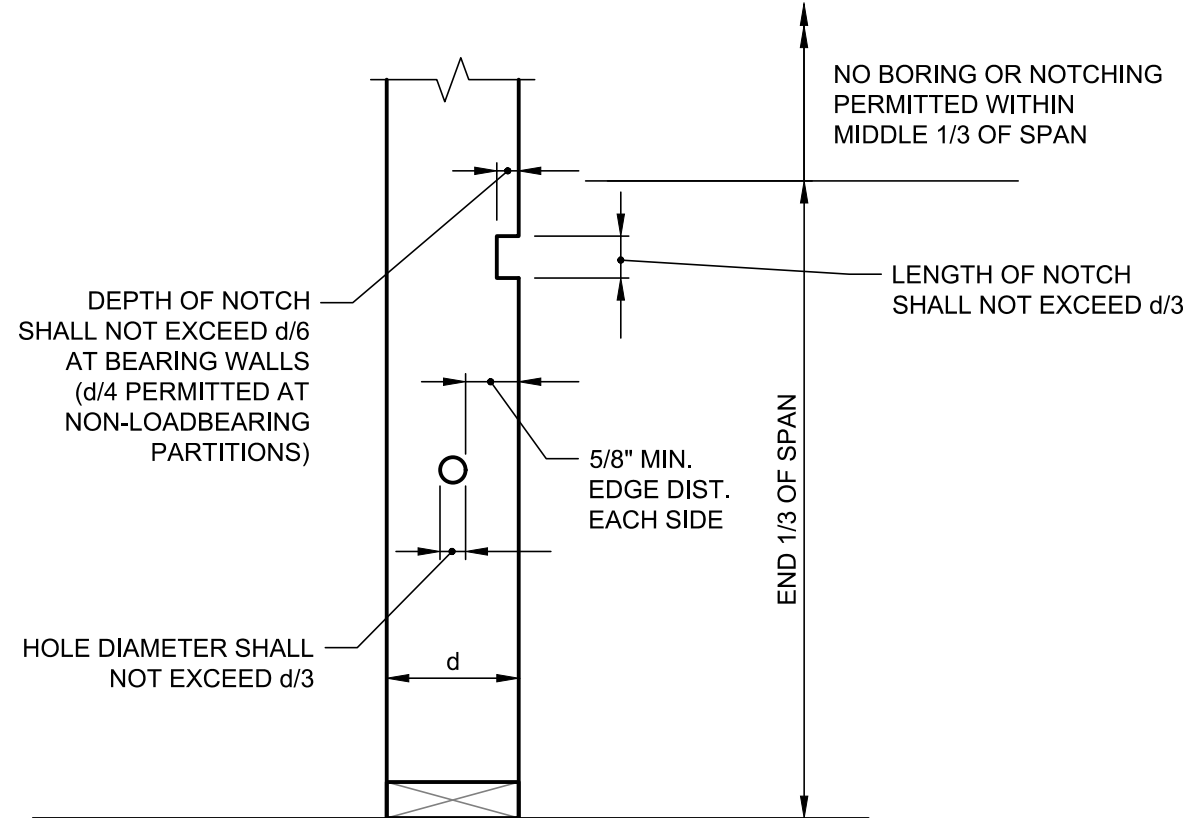
S2.1

SHEET NO.

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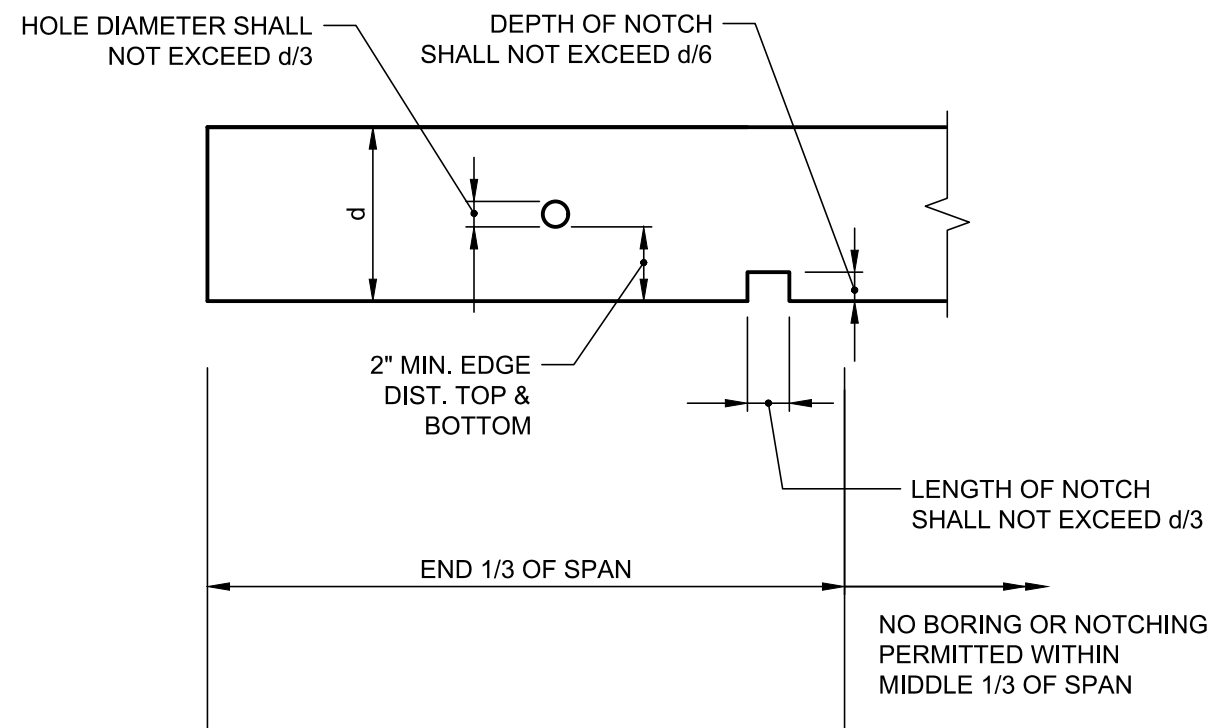
KSE PROJECT NO. 2025-102

NOTE:  
BORED HOLES SHALL NOT BE LOCATED AT THE  
SAME SECTION AS A CUT OR NOTCH.



TYP. DETAIL STUD NOTCHING & BORING LIMITS SCALE: 1 1/2"=1'-0"

- NOTES:
- BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION AS A CUT OR NOTCH.
  - NOTCHING ON THE TENSION SIDE OF THE MEMBER SHALL BE AVOIDED WHENEVER POSSIBLE.



TYP. DETAIL JOIST NOTCHING & BORING LIMITS SCALE: 1 1/2"=1'-0"

LEGEND:

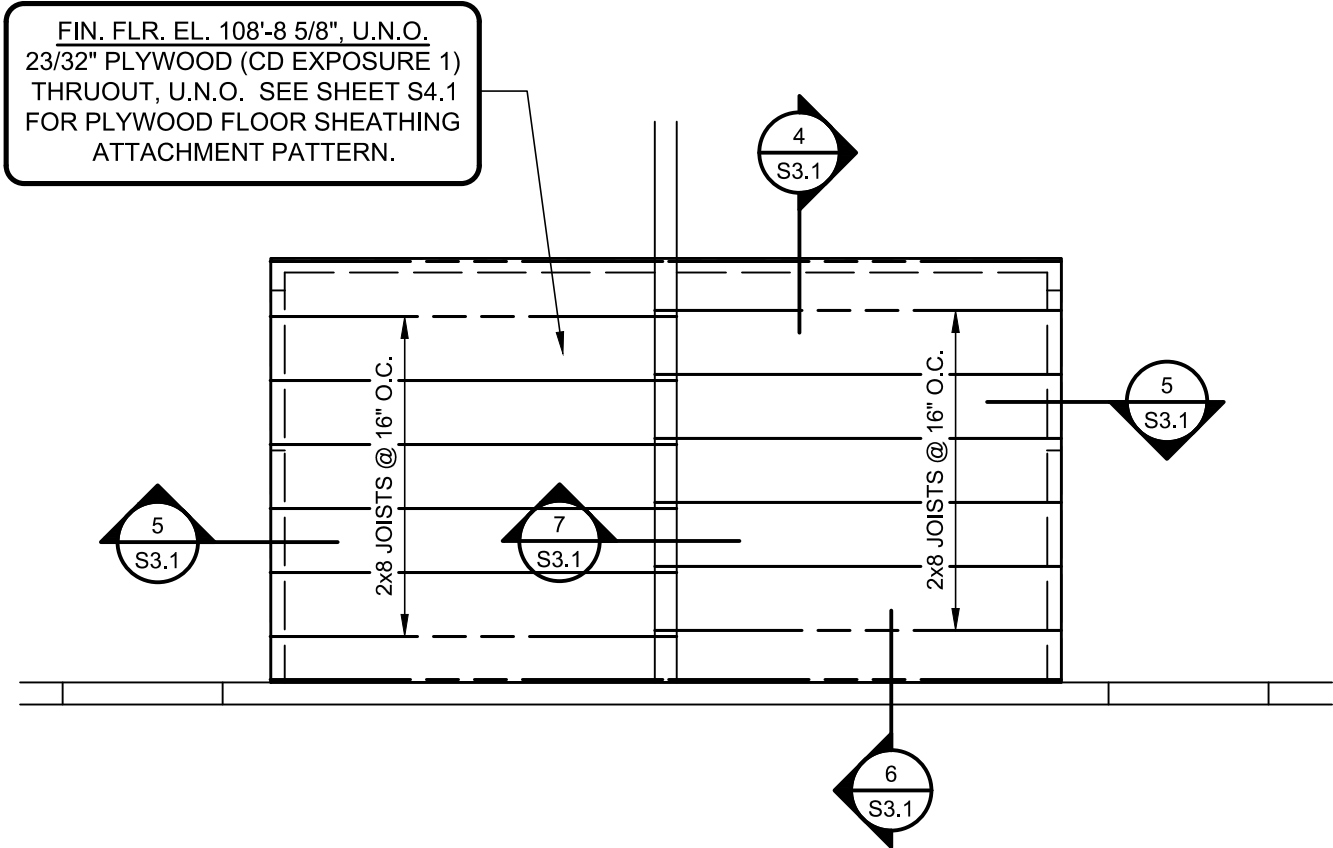
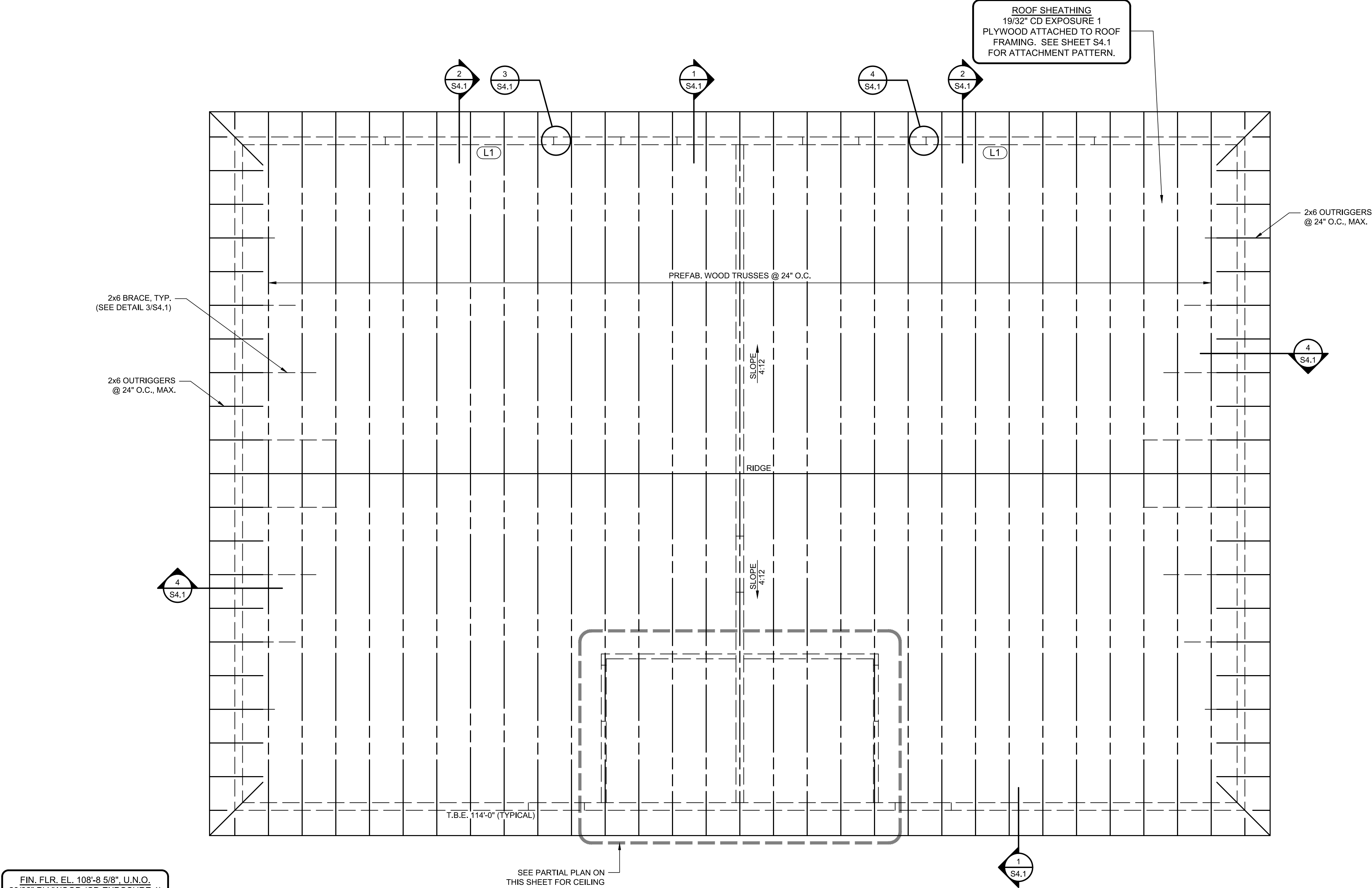
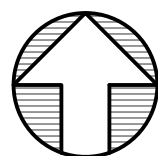
- (L1) LINTEL MARK NO., TYPICAL (SEE SHEET S1.0 FOR LINTEL SCHEDULE)

- NOTES:
- SEE SHEET S1.0 FOR GENERAL NOTES & SCHEDULES.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN.
  - T.B.E. - TRUSS BEARING ELEVATION.
  - U.N.O. - UNLESS NOTED OTHERWISE.
  - ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION OF 100'-0" BELOW.
  - TRUSS SUPPLIER SHALL DESIGN ROOF TRUSSES FOR NET WIND UPLIFT IN GENERAL NOTES ON SHEET S1.0.
  - USE DOUBLE STUDS AT ALL WINDOWS, DOOR JAMBS, END OF WALLS, AND AT LINTEL BEARING LOCATIONS, U.N.O.

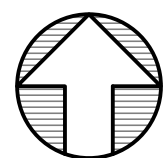
ROOF FRAMING PLAN

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

PLAN NORTH



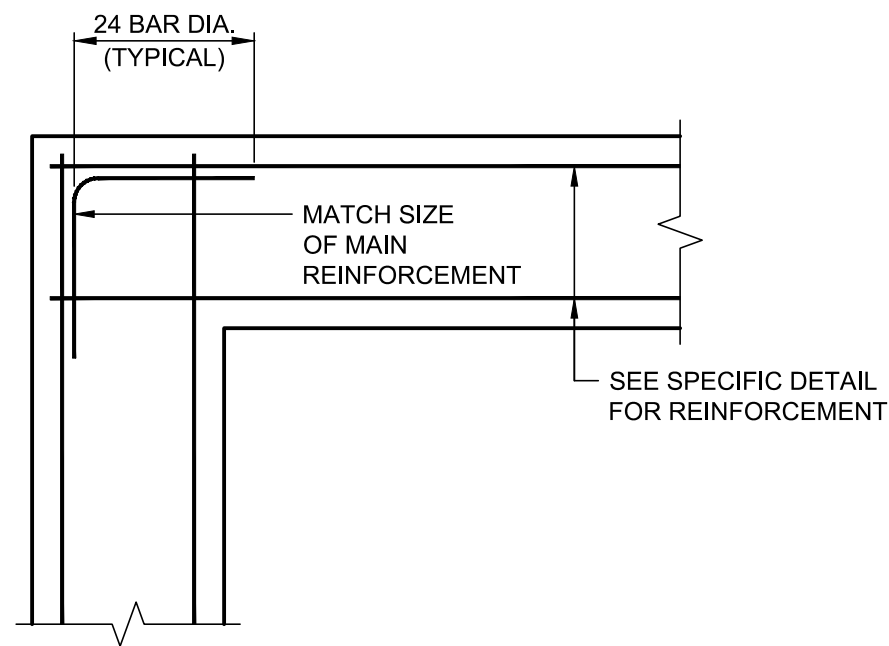
PLAN NORTH



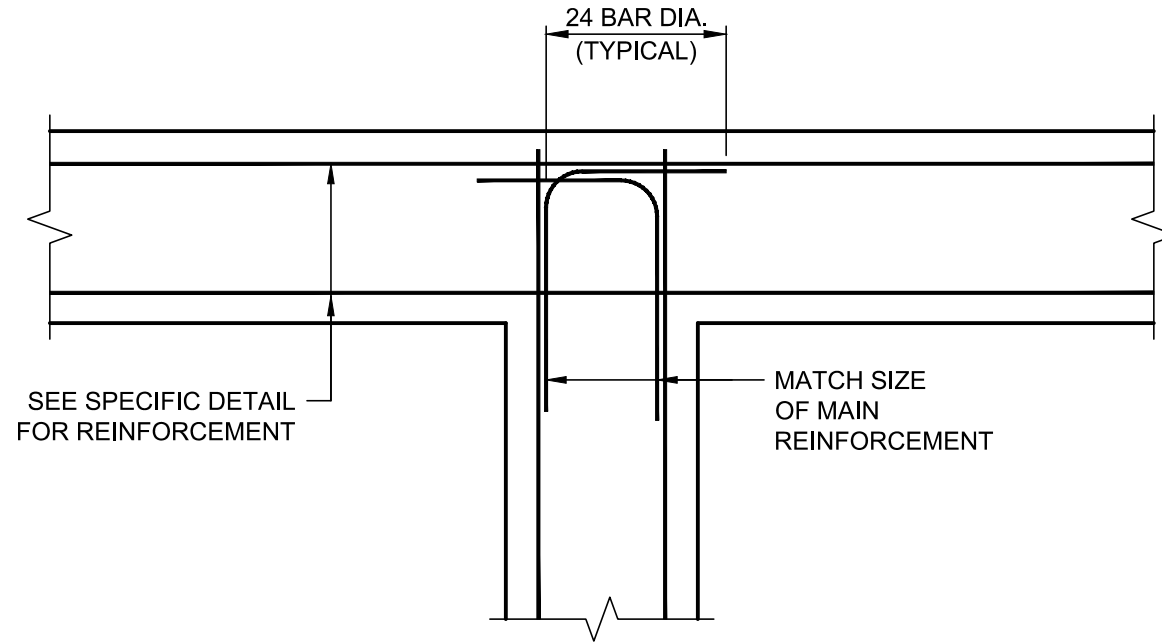
PARTIAL PLAN - CEILING FRAMING PLAN

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

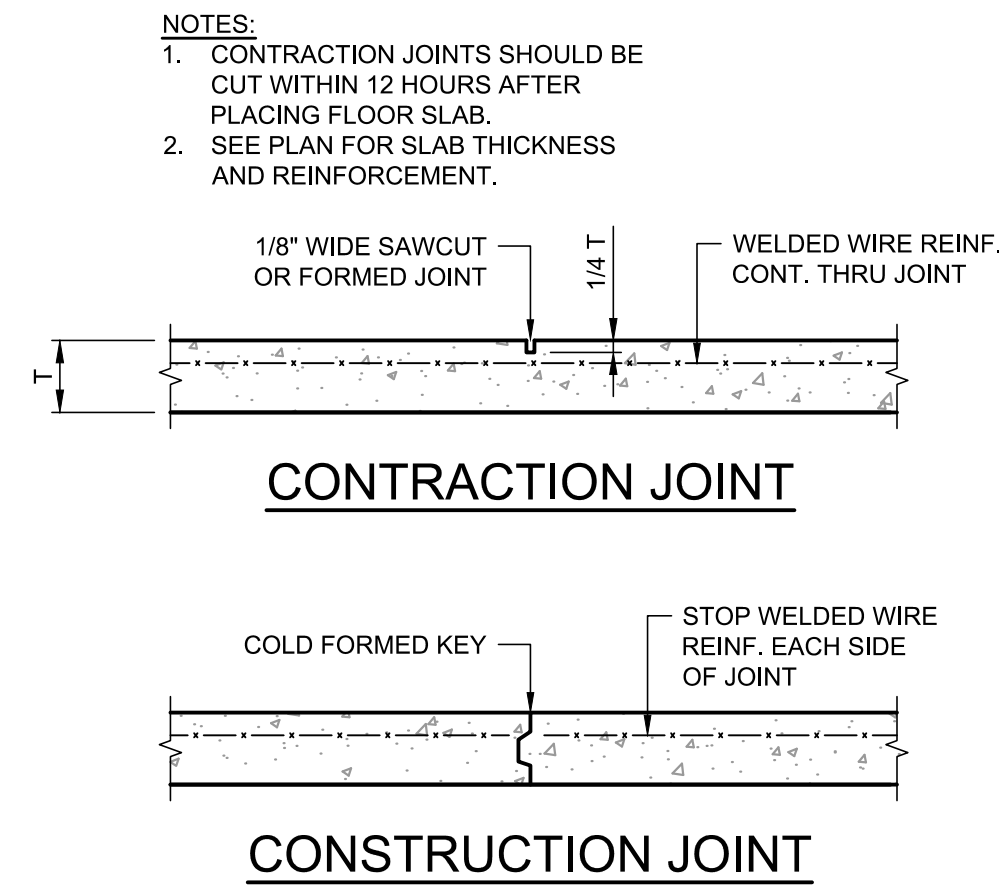




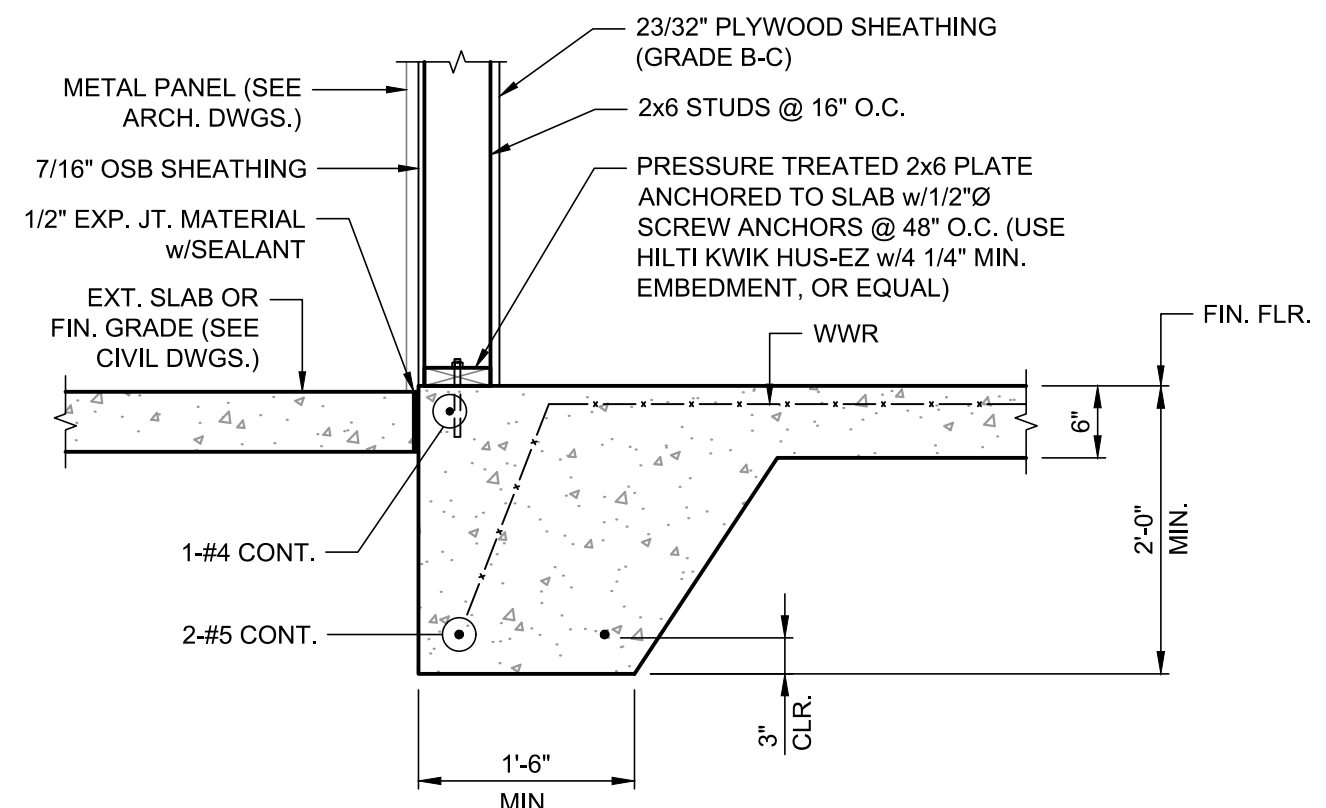
**TYP.** DETAIL  
FOOTING CORNER REINFORCEMENT  
NOT TO SCALE



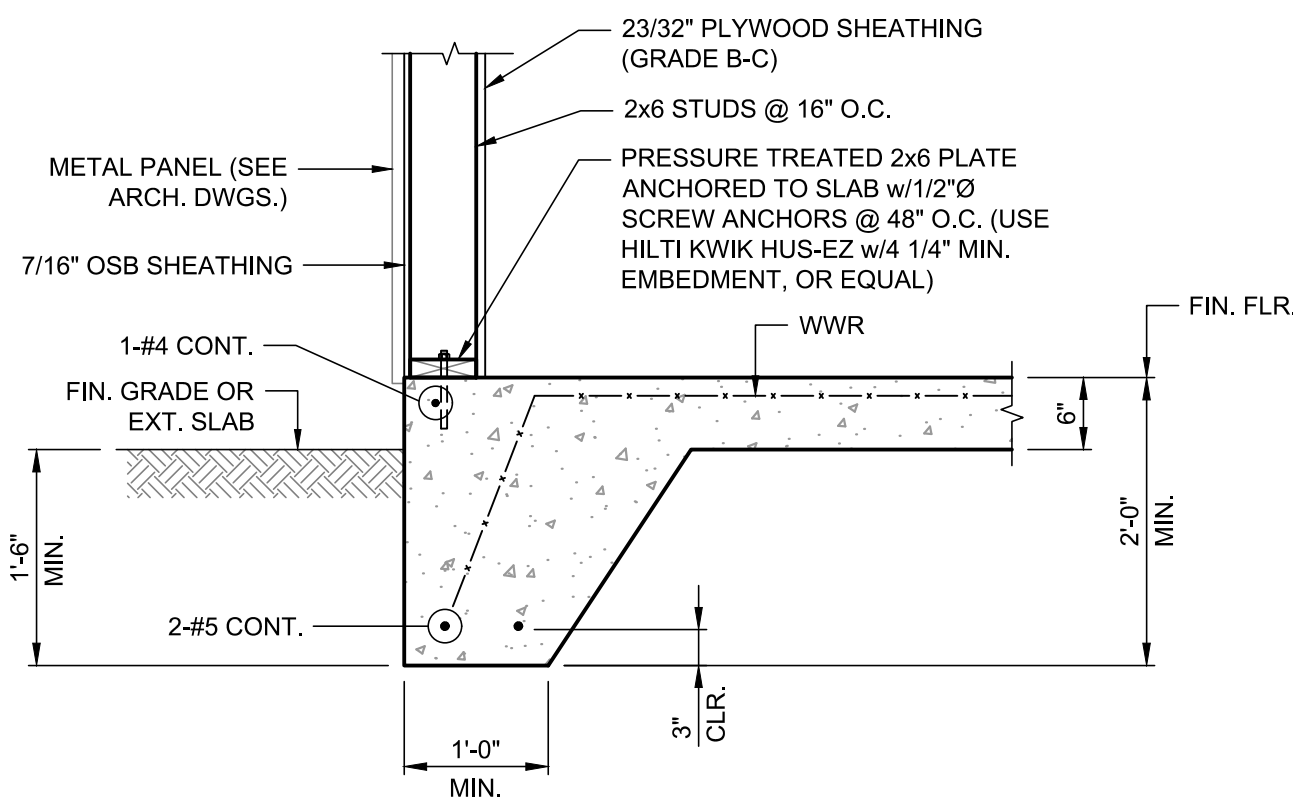
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NOT TO SCALE



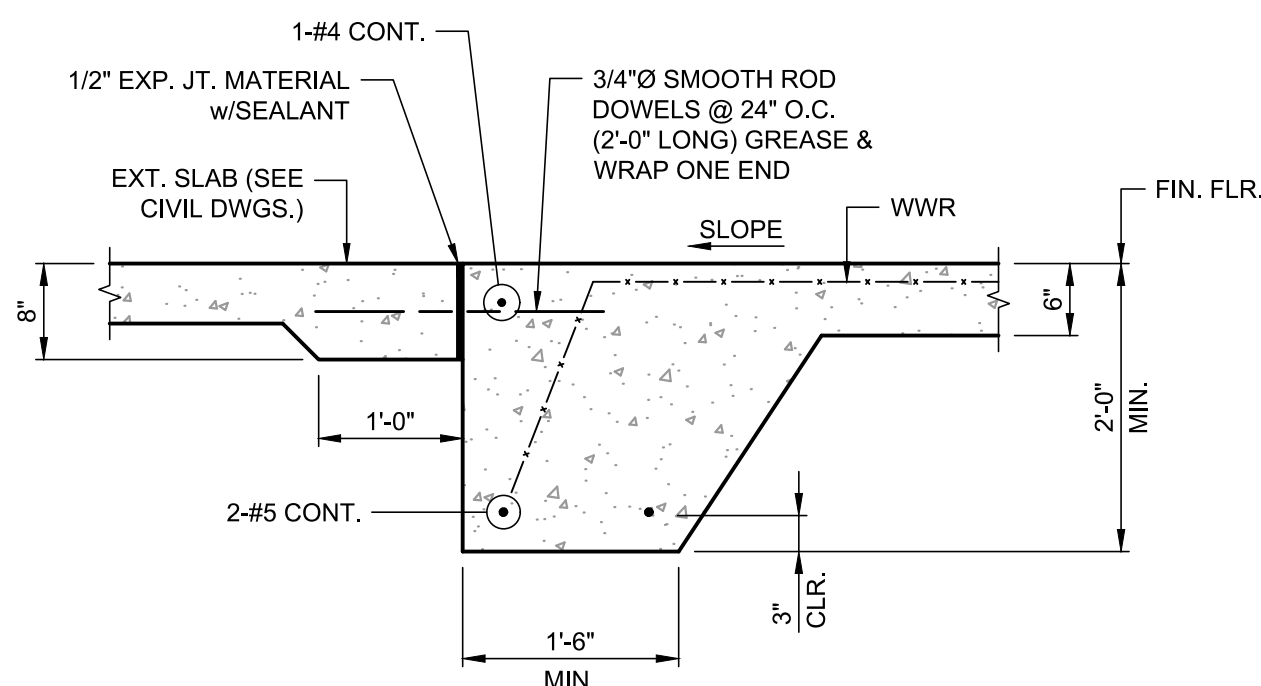
**TYP.** DETAIL  
SLAB JOINTS  
NOT TO SCALE



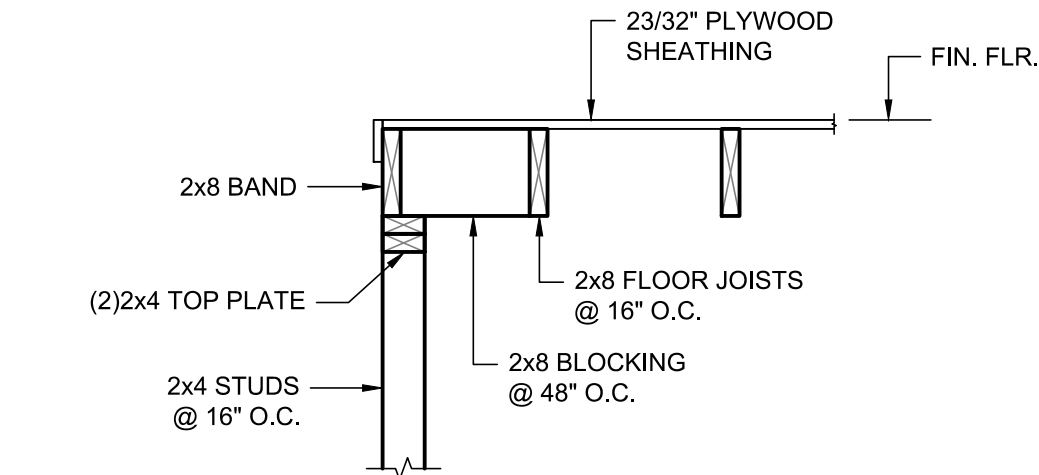
**1** DETAIL  
TURNDOWN SLAB  
SCALE: 3/4"=1'-0"



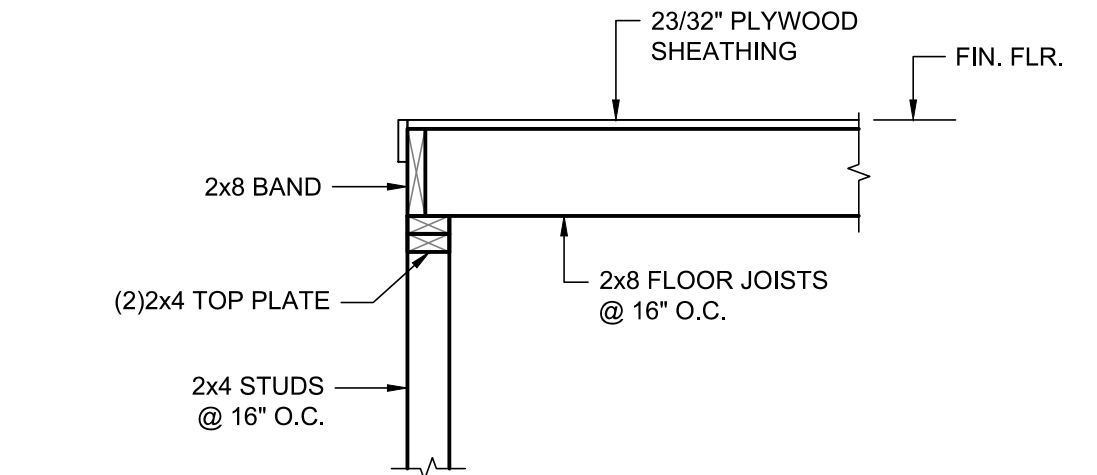
**2** DETAIL  
TURNDOWN SLAB  
SCALE: 3/4"=1'-0"



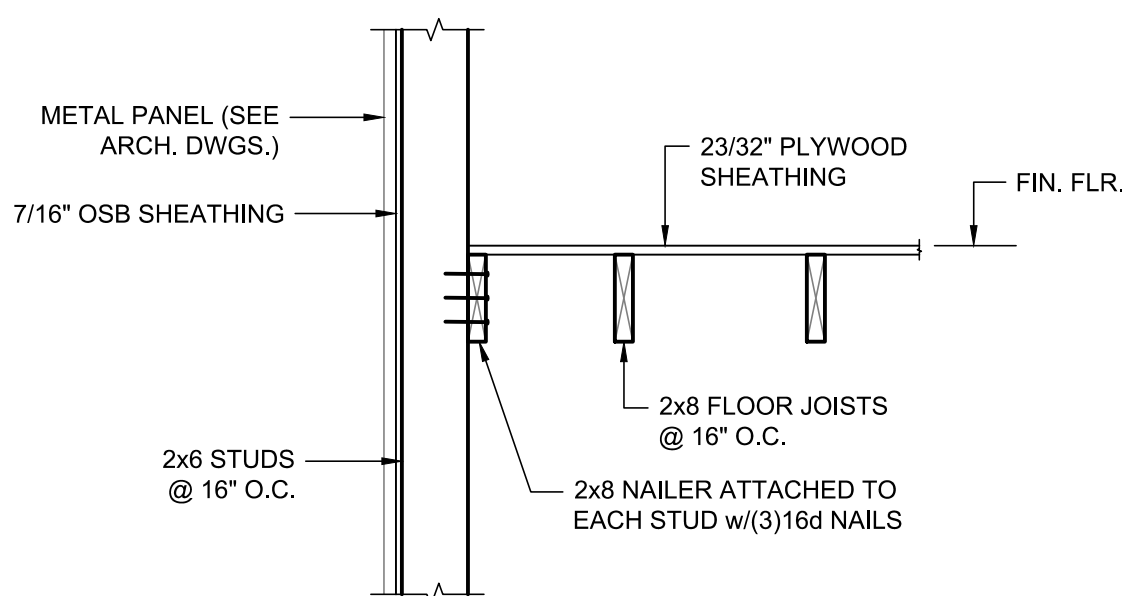
**3** DETAIL  
TURNDOWN SLAB AT OPENING  
SCALE: 3/4"=1'-0"



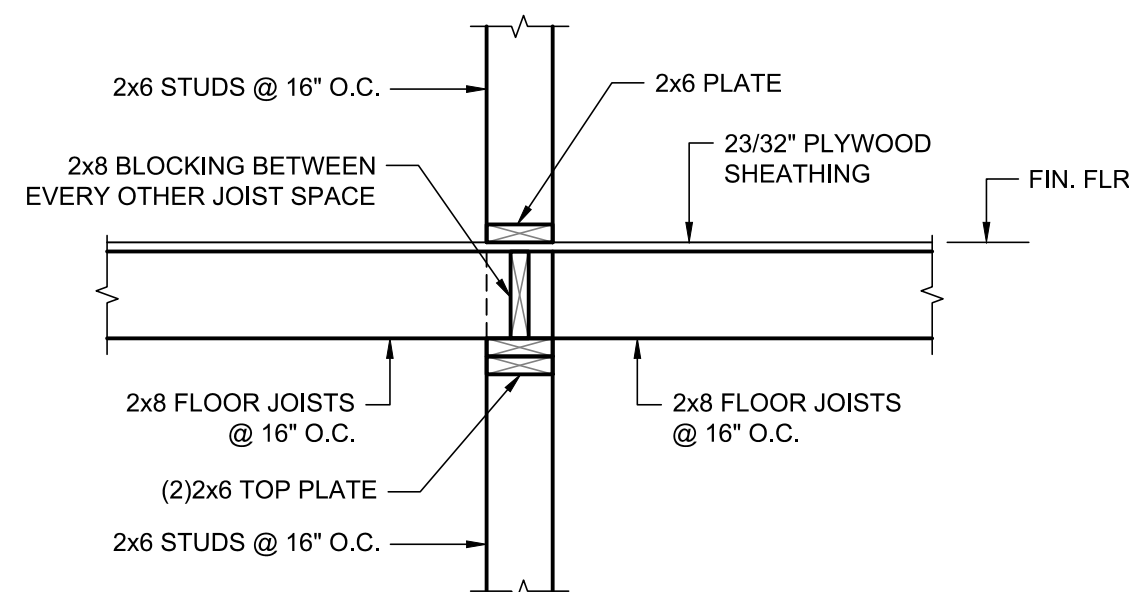
**4** DETAIL  
JOISTS PARALLEL TO STUD WALL  
SCALE: 3/4"=1'-0"



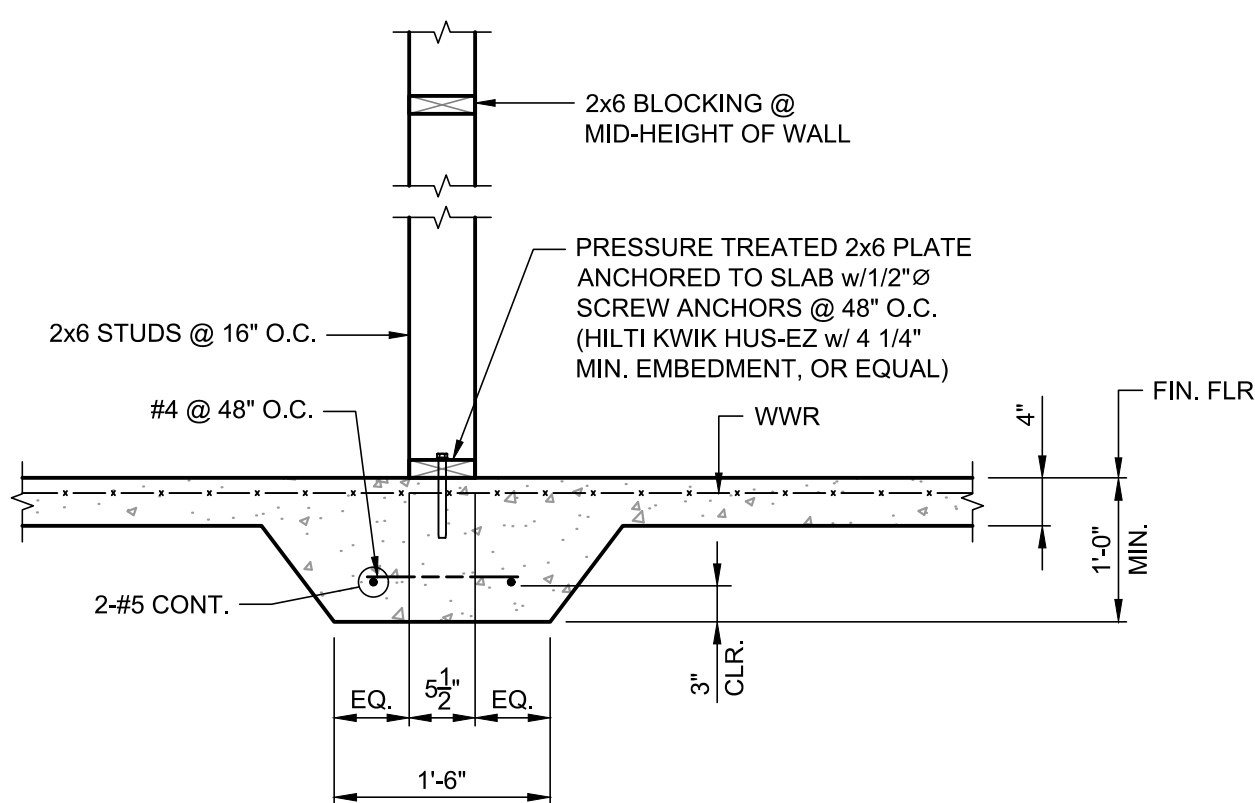
**5** DETAIL  
JOISTS BEARING AT STUD WALL  
SCALE: 3/4"=1'-0"



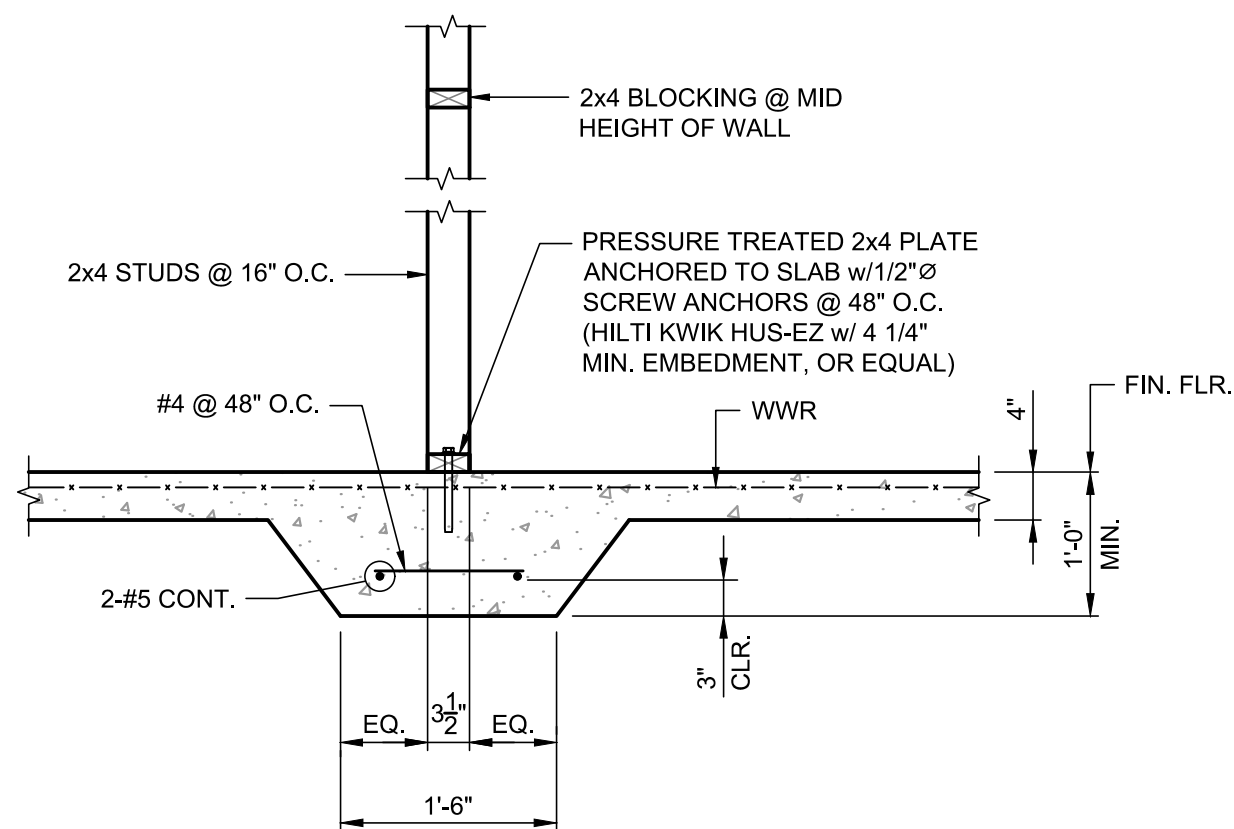
**6** DETAIL  
JOISTS PARALLEL TO EXTERIOR WALL  
SCALE: 3/4"=1'-0"



**7** DETAIL  
JOISTS BEARING AT INTERIOR WALL  
SCALE: 3/4"=1'-0"



**8** DETAIL  
THICKENED SLAB AT 2x6 STUD WALL  
SCALE: 3/4"=1'-0"

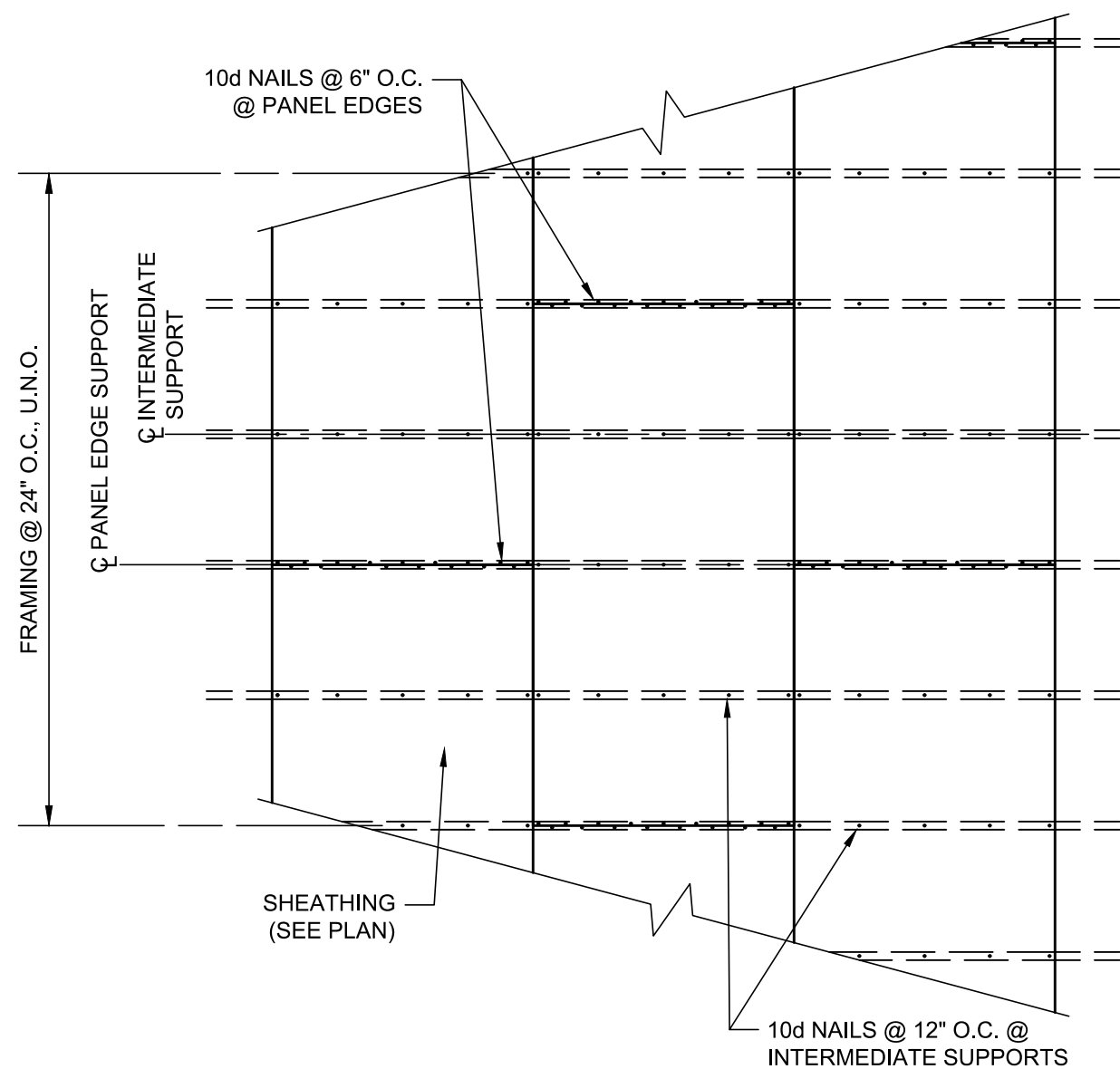


**9** DETAIL  
THICKENED SLAB @ 2x4 STUD WALL  
SCALE: 3/4"=1'-0"

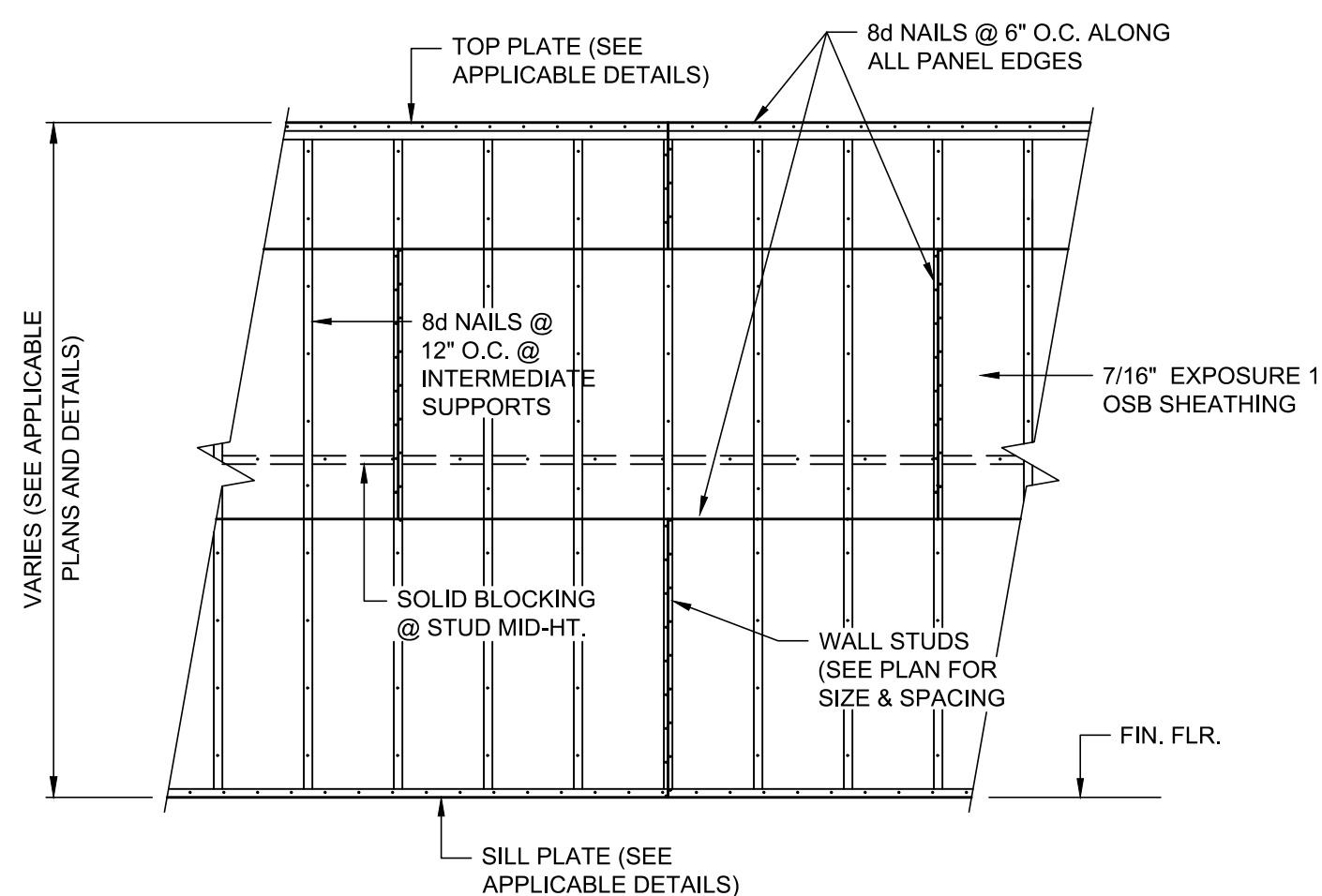


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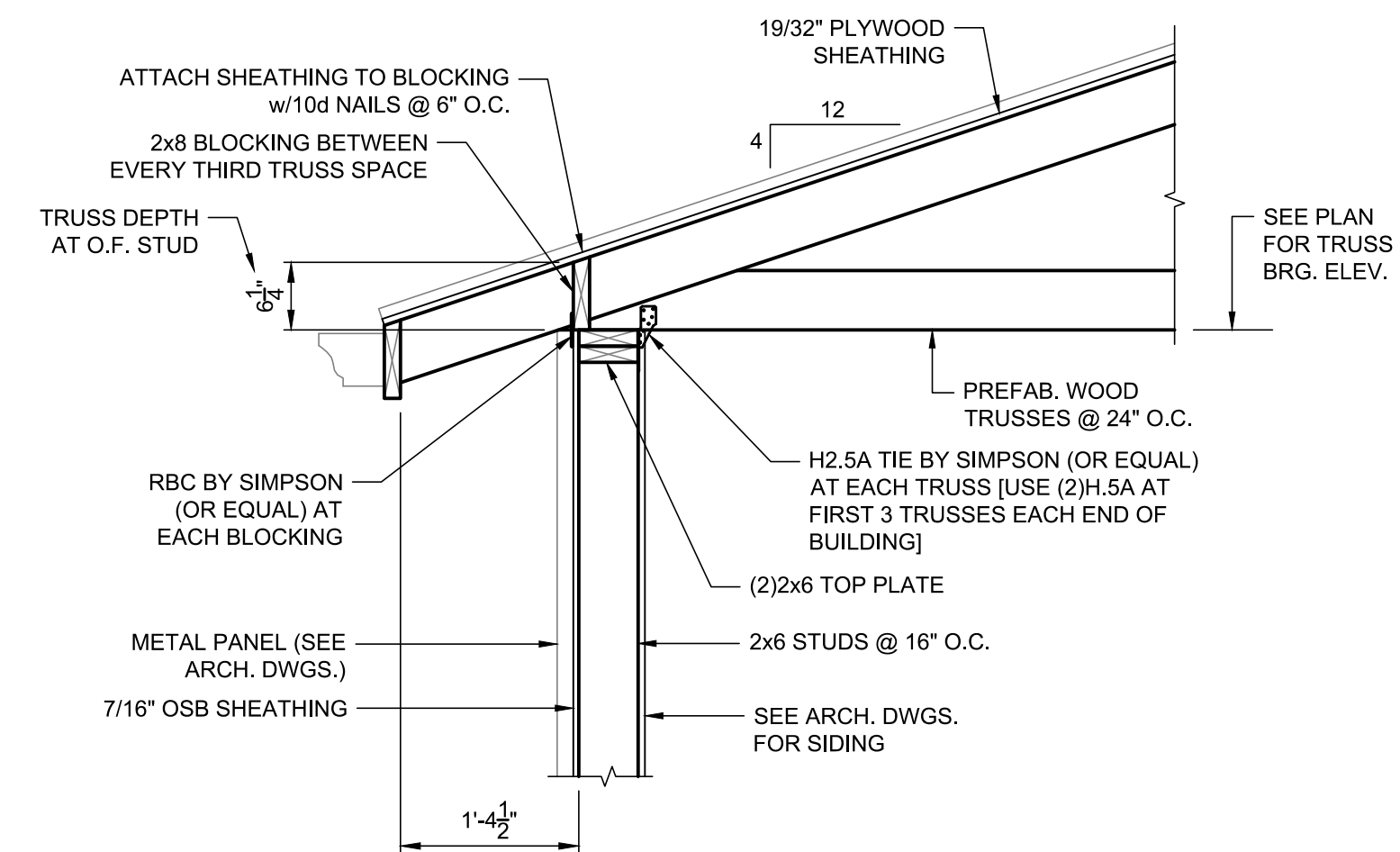




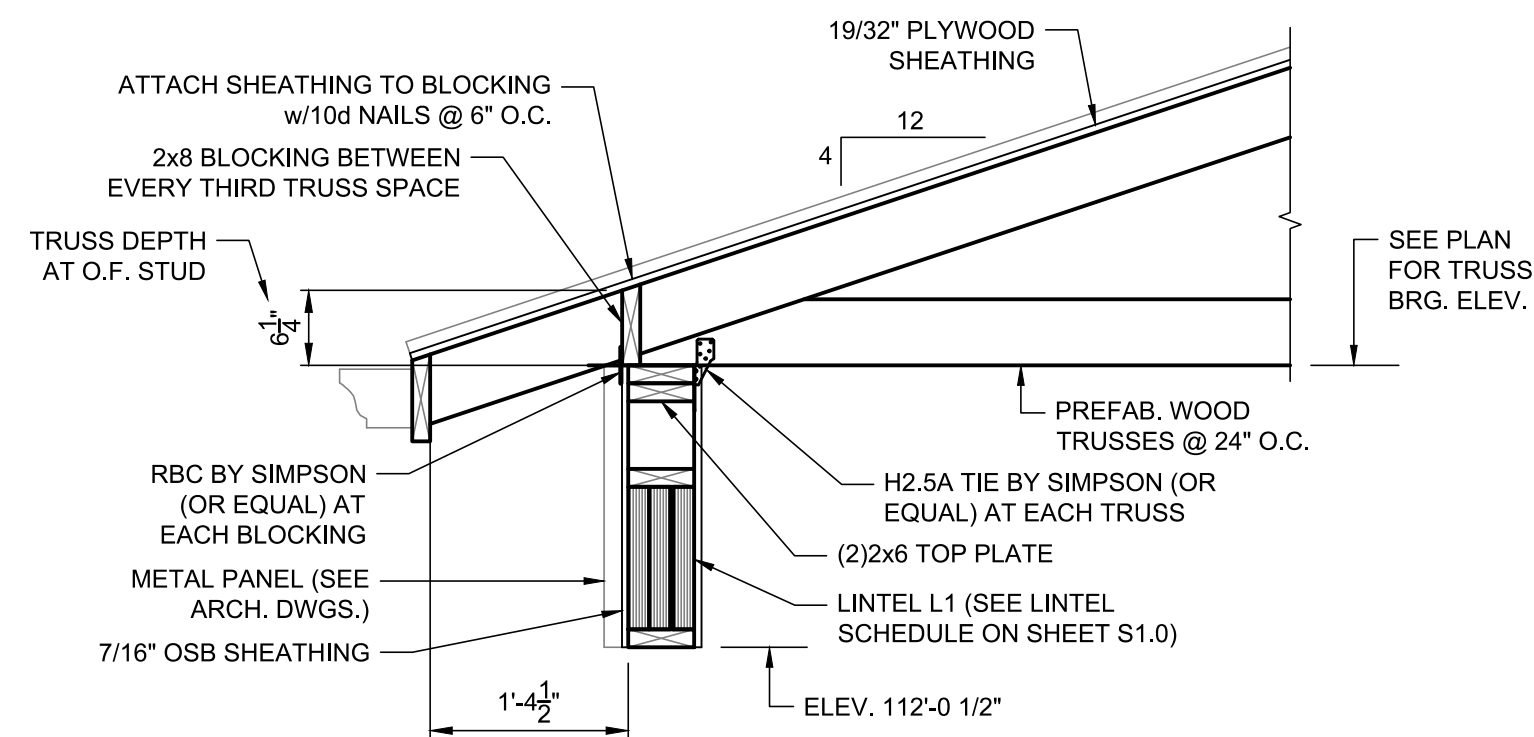
**DETAIL**  
**ROOF/CEILING SHEATHING ATTACHMENT**  
 NOT TO SCALE



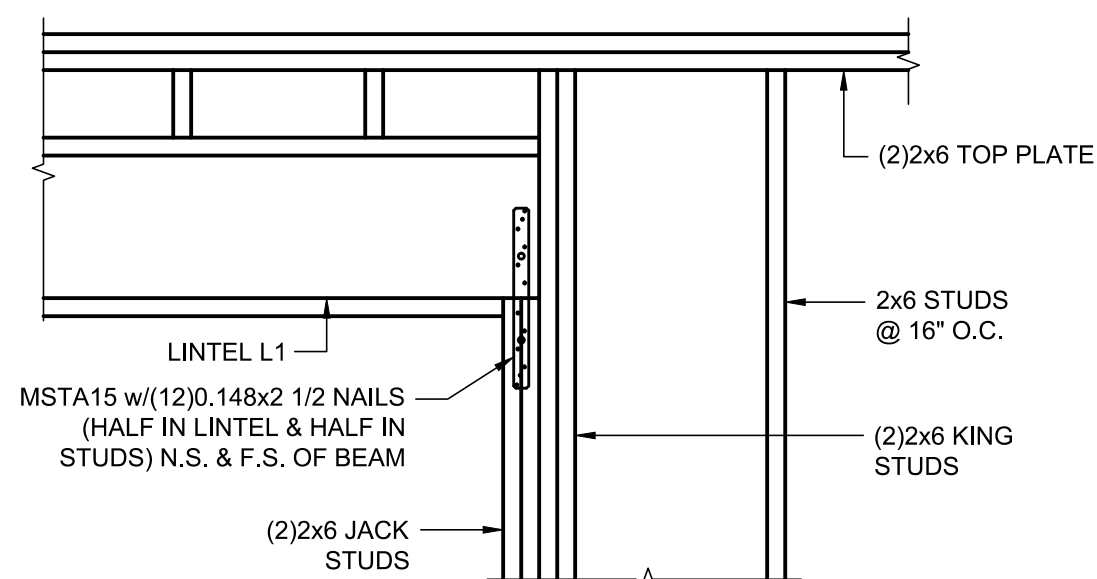
**DETAIL**  
**WALL SHEATHING ATTACHMENT PATTERN**  
 NOT TO SCALE



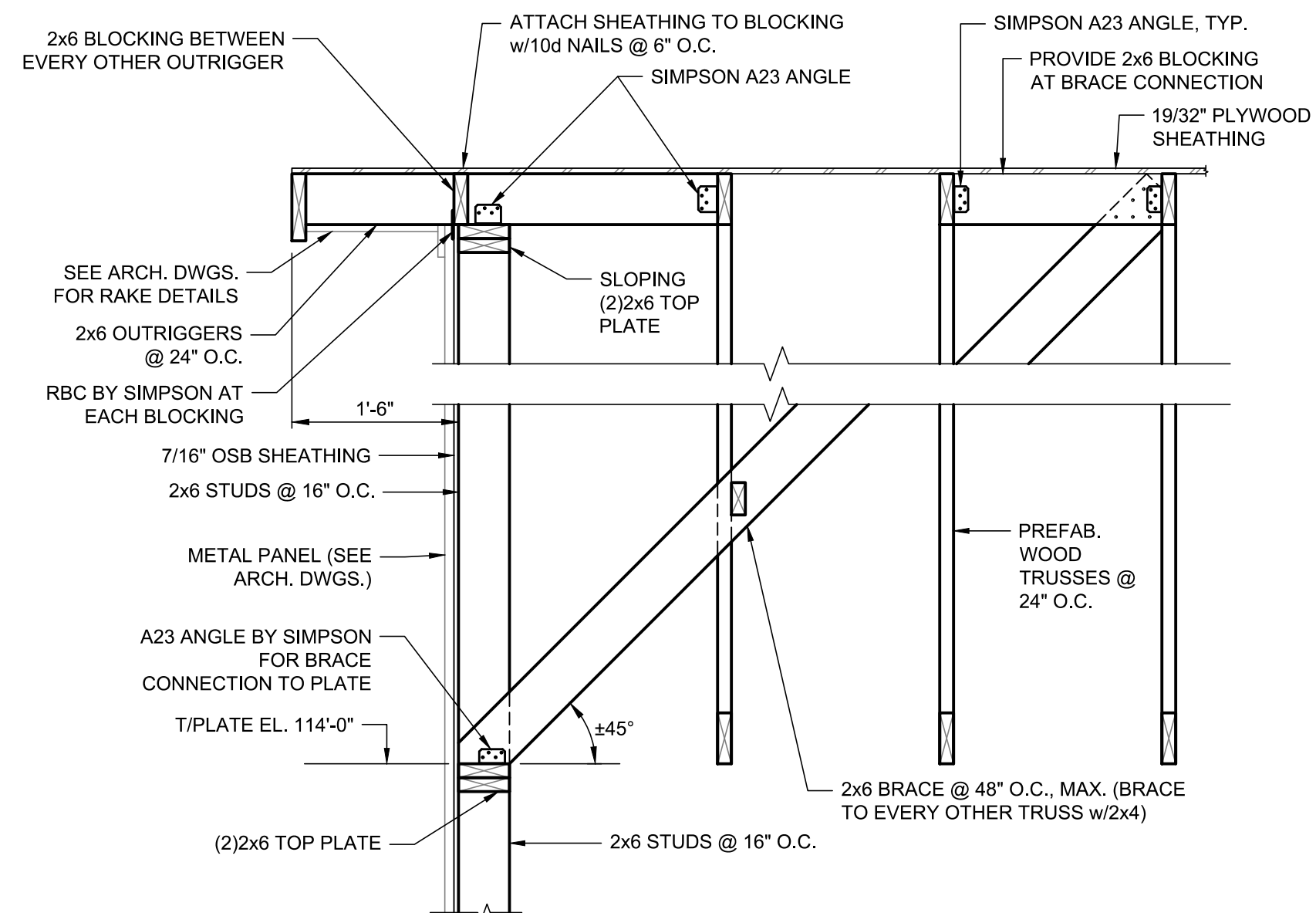
**DETAIL**  
**TRUSS BEARING AT STUD WALL**  
 SCALE: 3/4"=1'-0"



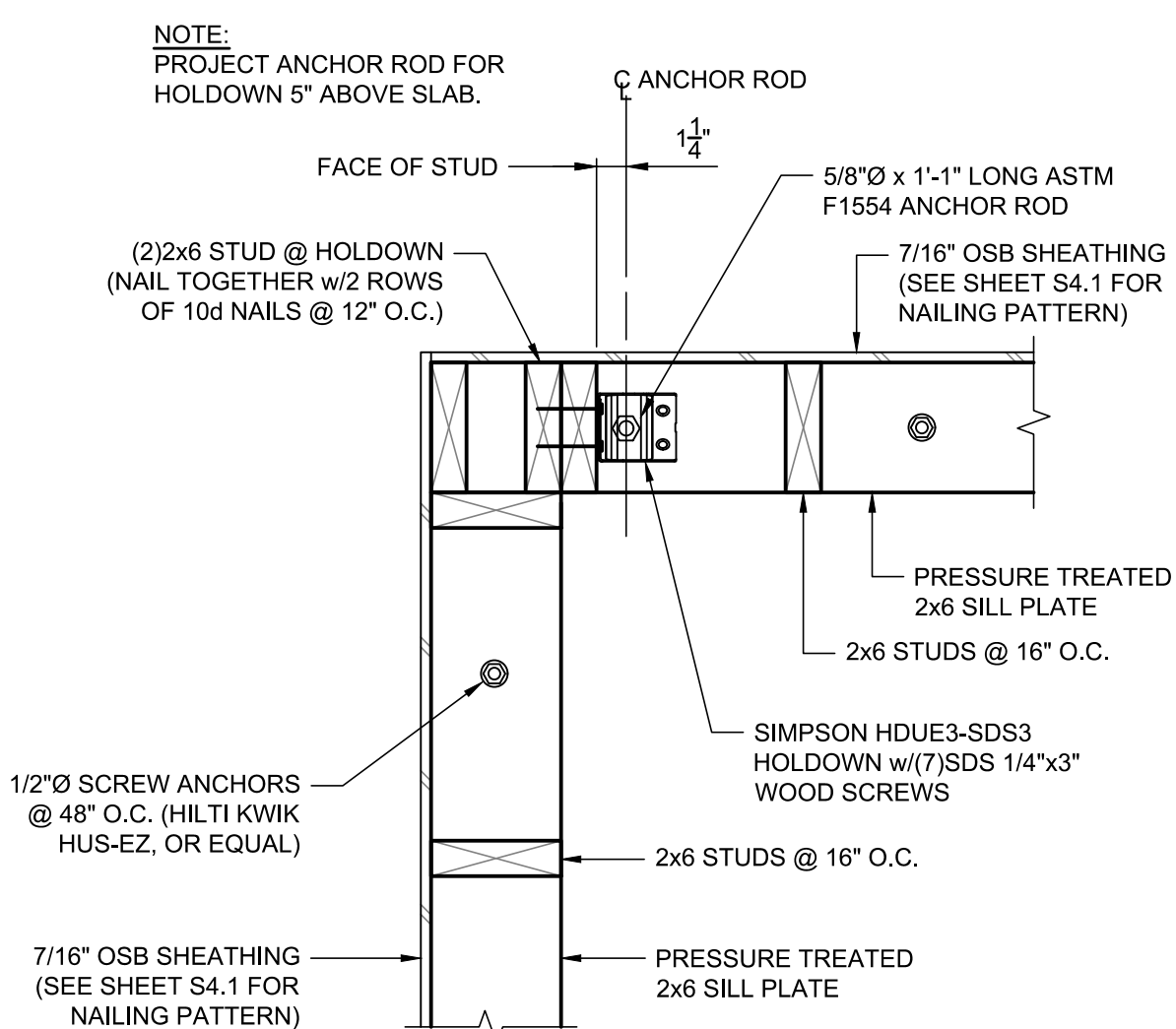
**DETAIL**  
**TRUSS BEARING AT LINTEL L1**  
 SCALE: 3/4"=1'-0"



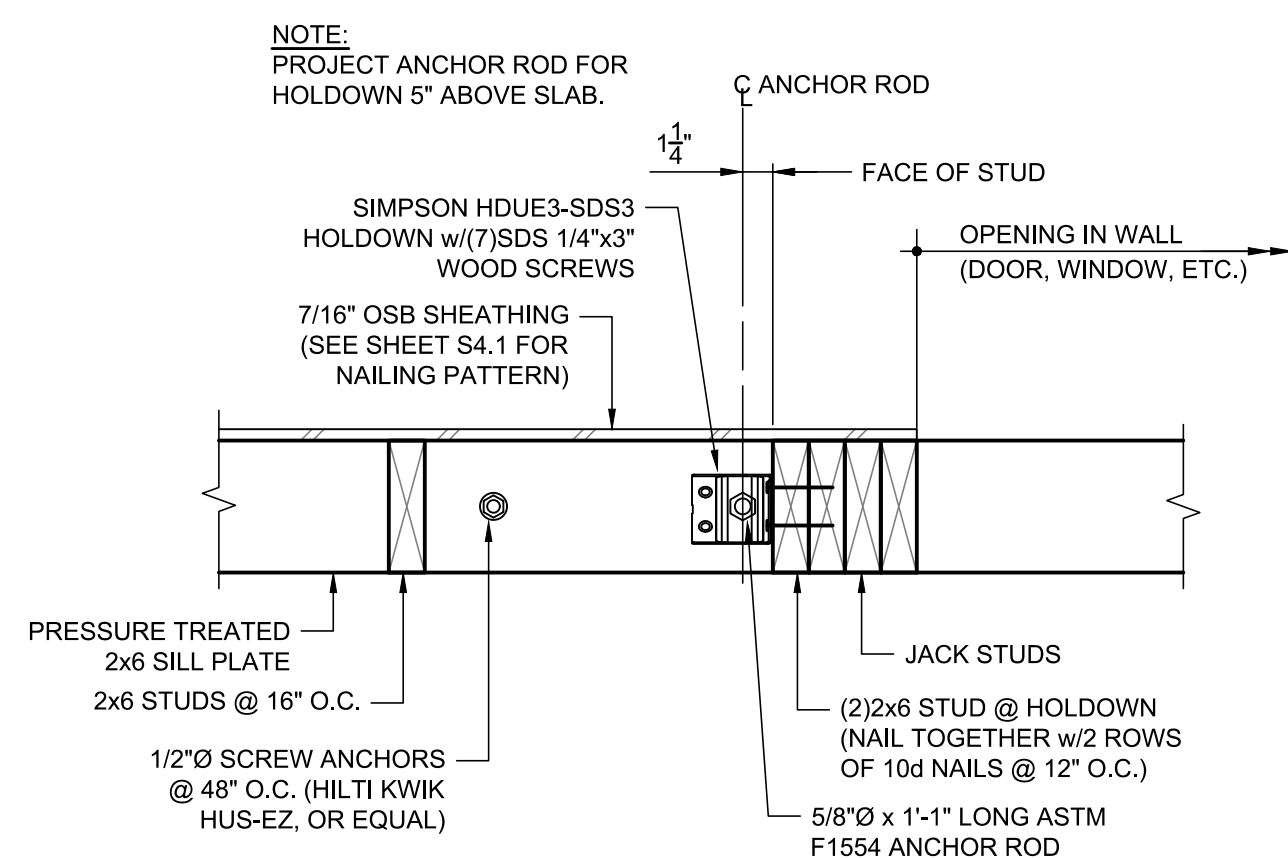
**DETAIL**  
**LINTEL BEARING AT JAMB STUDS**  
 SCALE: 3/4"=1'-0"



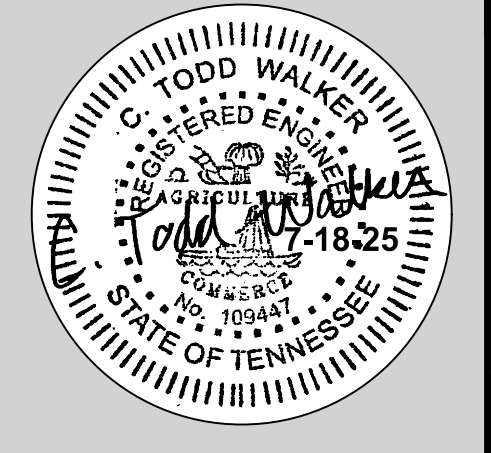
**DETAIL**  
**GABLE END WALL FRAMING**  
 SCALE: 3/4"=1'-0"



**DETAIL**  
**HOLDOWN @ CORNER**  
 SCALE: 1 1/2"=1'-0"



**DETAIL**  
**HOLDOWN @ EDGE OF OPENING**  
 SCALE: 1 1/2"=1'-0"



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**AGRICULTURAL/VOCATIONAL**  
**EDUCATION BUILDING**  
**LYLES, TENNESSEE**  
**FRAMING DETAILS**

Project No.	1402.1
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**S4.1**  
 SHEET NO.

**K&S** Engineering, PLLC  
 Structural Engineers  
 KSE PROJECT NO. 2025-102  
 P.O. BOX 3033 / 124 HILLCREST DRIVE  
 CLARKSVILLE, TENNESSEE 37043  
 PHONE: 931-647-6542; FAX: 931-593-8727  
 www.kseengr.com

INTERNATIONAL ENERGY CODE SPECS	
A. EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE FOLLOWING IS A LIST OF ITEMS THAT SHALL BE INCLUDED: 1. EQUIPMENT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS IDENTIFIED ABOVE. 2. AIR ECONOMIZERS ON EQUIPMENT GREATER THAN 54,000 BTUH (COOLING) WITH FAULT DETECTION DIAGNOSTICS SYSTEM.	
B. SYSTEM COMPONENTS SHALL COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE. 1. CONTROLS SHALL INCLUDE OPTIMUM START CONTROLS AND 5°F DEADBAND. 2. DUCT AND PLENUM CONSTRUCTION, SEALING AND INSULATION COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE. 3. AIR INLETS AND OUTLETS SHALL INCLUDE MEANS FOR AIR BALANCING. 4. EACH ZONE SHALL BE EQUIPPED WITH SETBACK CONTROLS USING AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. 5. CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK DOWN TO 55°F OR UP TO 85°F, 7–DAY TIME CLOCK & 2–HOUR OCCUPANT OVERRIDE..	
C. POST CONSTRUCTION REQUIREMENTS. 1. FURNISH HVAC AS-BUILT DRAWINGS SUBMITTED WITH IN 90 DAYS OF SYSTEM ACCEPTANCE. 2. FURNISH O&M MANUALS TO OWNER FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE. 3. FURNISH AN AIR SYSTEMS HVAC BALANCE REPORT.	

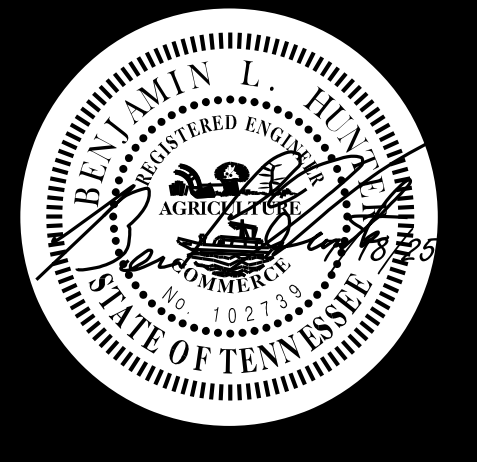
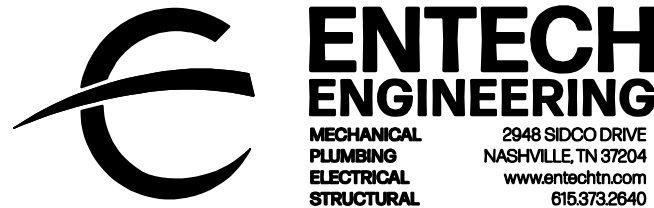
PACKAGED AC UNIT SCHEDULE		
UNIT DESIGNATION	AC#1	AC#2
TYPE	GAS PACK – HOR	GAS PACK – HOR
SERVICE	CR#1	CR#2
ACCESSORIES	---	---
O.A. DAMPER – ECON. OR 2-POS.	①	①
CURB	NO, PAD MOUNTED	NO, PAD MOUNTED
FILTERS	2", 30%/MERV 8, T.A.	2", 30%/MERV 8, T.A.
HUMIDITY CONTROL	YES-H.G.R.	YES-H.G.R.
SUPPLY FAN	---	---
TOTAL C.F.M.	2,000	2,000
O.A. MINIMUM	600	600
EXTERNAL S.P.	0.75	0.75
H.P.	3.0	3.0
VOLTAGE	460/1/60	460/1/60
HEATING COIL	SS	SS
FUEL	NATURAL GAS 2-STAGE	NATURAL GAS 2-STAGE
HEATING CAP. INPUT – MBH	150.0	150.0
HEATING CAP. OUTPUT – MBH	121.5	121.5
E.A.D.B./L.A.D.B.	50.6/106.6	50.6/106.6
COOLING COIL	---	---
TOT/SENS CAP. (MBH)	62.4/48.3	62.4/48.3
E.A.D.B./E.A.W.B.	80/67	80/67
CONDENSING SECTION	---	---
COMP. F.L.A.	7.9	7.9
COND.FANS F.L.A.	0.7	0.7
UNIT M.C.A./M.O.C.P.	16.0/20	16.0/20
VOLTAGE	460/3/60	460/3/60
O.A.D.B.	95°F	95°F
MIN. S.E.E.R.	16.4	16.4
MANUFACTURER	TRANE	TRANE
MODEL #	YHK-060	YHK-060
WEIGHT (lbs) (UNIT + CURB)	1,000	1,000
DIMENSIONS (L X W X H)	88"x53"x51"	88"x53"x51"

① ECONOMIZER: DUAL ENTHALPY CONTROL, FAULT DETECTION & DIAGNOSIS, BAROMETRIC RELIEF

GENERAL MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY DUCTWORK
	RETURN DUCTWORK
	EXHAUST DUCTWORK
	OUTSIDE AIR DUCTWORK
	FIRE DAMPER
	COMBINATION FIRE & SMOKE DAMPER
	SUPPLY AIR DIFFUSER
	RETURN OR EXHAUST AIR REGISTER
	DAMPER
	ROUND DUCTWORK OR FLUE UP THRU ROOF OR SLAB
	SUPPLY DUCT THRU SLAB OR ROOF – SEE PLANS
	RETURN OR EXHAUST DUCT THRU SLAB OR ROOF – SEE PLANS
	UNDERCUT DOOR ¾"
	DOOR GRILLE – SEE PLANS FOR SIZE
	MANUAL VOLUME DAMPER (M.V.D.)
	MOTORIZED VOLUME DAMPER
	S.MOKE DETECTOR
	8"Ø NECK SUPPLY AIR DIFFUSER @ 200 C.F.M.
	8"x8" RETURN AIR REGISTER @ 150 C.F.M.
	6"x6" EXHAUST AIR REGISTER @ 100 C.F.M.
	SPACE THERMOSTAT MOUNTING HEIGHT PER ADA (48" AFF)
	SPACE HUMIDISTAT
	WALL SWITCH FOR CONTROL: MOUNTING HEIGHT PER ADA
	ELECTRIC DUCT HEATER
	COIL – SEE PLANS FOR TYPE
	ROOM A.C. UNIT
	ELECTRIC WALL HEATER
	ELECTRIC UNIT HEATER – CEILING MOUNTED
	UNIT CONNECTION SIZE
	FIELD VERIFY SIZE
	UNLESS OTHERWISE NOTED

FAN SCHEDULE		
UNIT DESIGNATION	EF#1A & 2A	EF#1B & 2B
TYPE	CENTRIFUGAL CEILING	CENTRIFUGAL CEILING
SERVICE	RESTROOMS	SHOPS
C.F.M.	50	550
STATIC PRESSURE	0.375	0.375
SONES	2.5	2.0
POWER (AMPS)	50 WATTS	0.5 HP
VOLTAGE	120-1-60	120-1-60
ACCESSORIES	---	---
DAMPER TYPE	BACKDRAFT	BACKDRAFT
SCREEN TYPE	---	---
MOTOR WITH INTERNAL OVERLOAD	YES	ECM
S.S.S. CONTROLLER	YES	---
WALL/ROOF CAP.	LOUVER-SEE PLANS	LOUVER-SEE PLANS
MANUFACTURER	COOK	COOK
MODEL #	GC-166	GCVF-900

EF#1A & 2A: CONTROL WITH LIGHTS  
EF#1B & 2B: INTERLOCK W/AC UNIT



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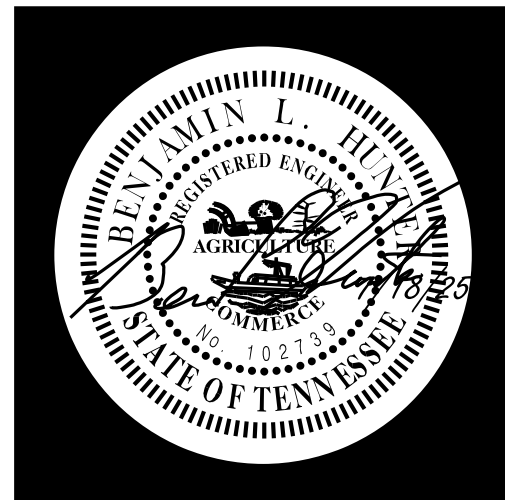
H.V.A.C.  
LEGENDS AND SCHEDULES

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	E.E.I.
Revision Date	
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Revision Date	

M1.1

SHEET NO.





## ARCHITECTS

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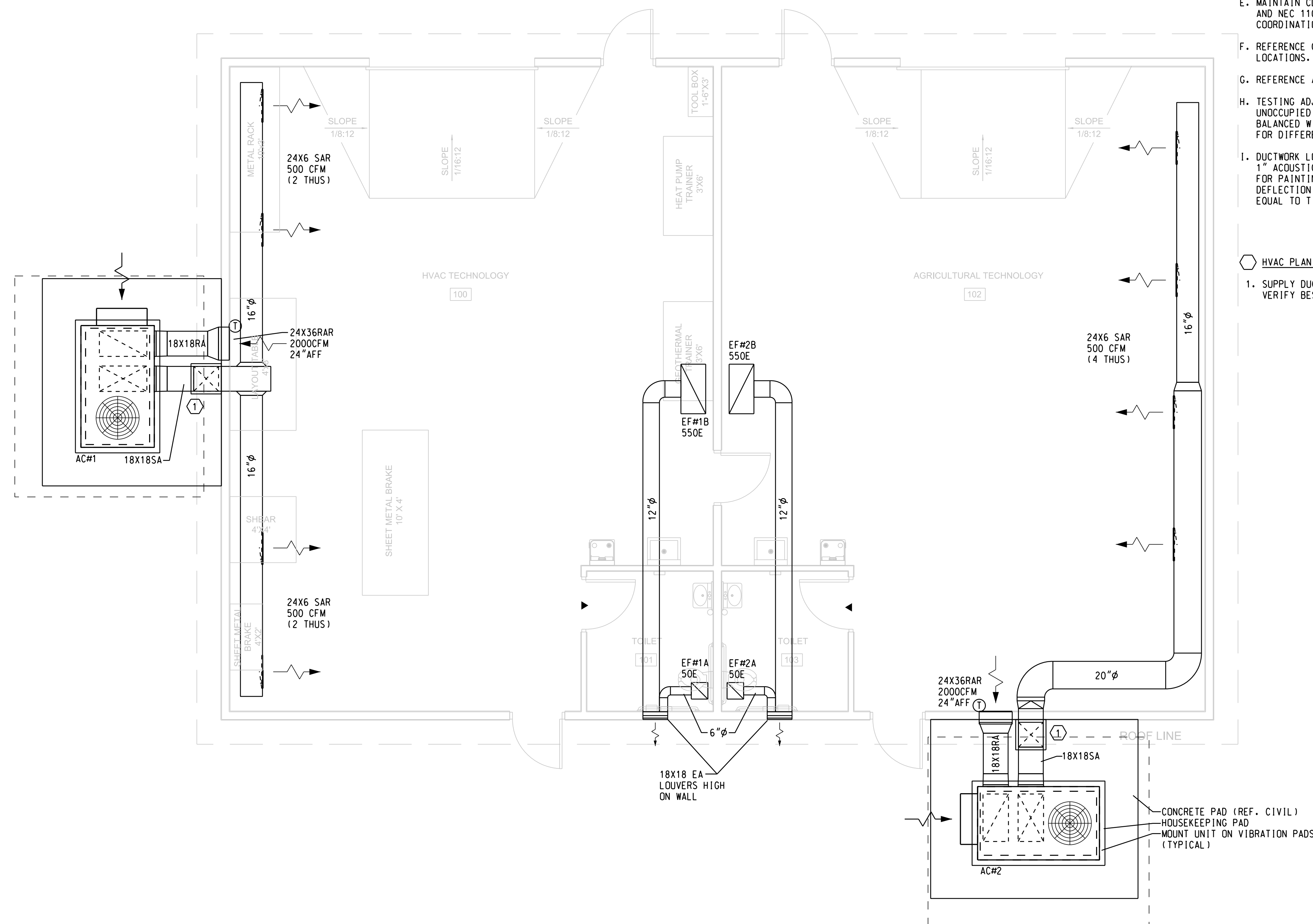
**EAST HICKMAN HIGH SCHOOL  
AGRICULTURAL/VOCATIONAL  
EDUCATION BUILDING  
LYLES, TENNESSEE**

H.V.A.C.  
FLOOR PLAN

Project No.	1402.1
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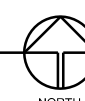
**M2.1**

SHEET NO.



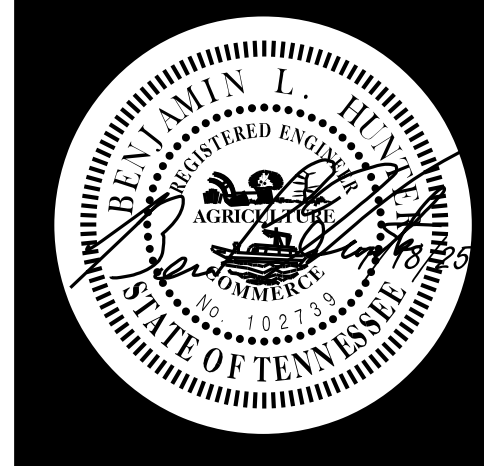
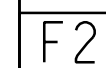
## H.V.A.C. FLOOR PLAN

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



- B. THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK.
- C. COORDINATE DUCTWORK WITH ALL TRADES AND FIELD CONDITIONS PRIOR TO FABRICATION. SUBMIT ANY MAJOR CHANGES IN DUCT ROUTING OR DUCT SIZING AS A SHOP DRAWING TO THE ARCHITECT/ENGINEER FOR REVIEW.
- D. COORDINATE CEILING AIR INLETS AND OUTLETS WITH REFLECTED CEILING PLAN. DO NOT LOCATE ANY AIR OUTLETS WITHIN 3 FEET OF CEILING SMOKE DETECTORS.
- E. MAINTAIN CLEARANCES FROM ELECTRICAL PANELS AS REQUIRED BY N.E.C.
- F. MAINTAIN CLEARANCES FOR SERVICE OF HVAC EQUIPMENT AS REQUIRED BY MANUFACTURER AND NEC 110.26. PROVIDE MECHANICAL ROOM SHOP DRAWINGS AS REQUIRED FOR COORDINATION.
- G. REFERENCE CONTROL SCHEMATICS & DUCTWORK DETAILS FOR MANUAL AND AUTOMATIC DAMPER LOCATIONS.
- H. REFERENCE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF LOUVERS AND WALL CAPS.
- I. TESTING ADJUSTING & BALANCING OF AIR SHALL INITIALLY BE ACCOMPLISHED AT UNOCCUPIED CONDITIONS AS INDICATED ON THE DRAWINGS AND THEN THE OUTSIDE AIR BALANCED WITH RETURN AIR INLETS REBALANCED PROPORTIONALLY LOWER TO ACCOUNT FOR DIFFERENCE.
- J. DUCTWORK LOCATED IN SPACES WITH NO CEILING/EXPOSED STRUCTURE, SHALL HAVE:  
1" ACOUSTICAL LINER WITH ANTI-MICROBIAL COATING; PAINT GRIP EXTERIOR FINISH FOR PAINTING; GRILLES SHALL BE SPIRAL DUCT MOUNTED GRILLE WITH DOUBLE DEFLECTION AND DAMPER/EXTRACTOR, LONG FRONT BLADES, MAX. NC = 25  
EQUAL TO TITUS 300FL.

1. SUPPLY DUCT TURNED UP WALL AND INTO BUILDING HIGH JUST BELOW STRUCTURE - FIELD VERIFY BEST ROUTING. SEE DETAIL FOR EXTERIOR DUCT INSULATION DETAIL.



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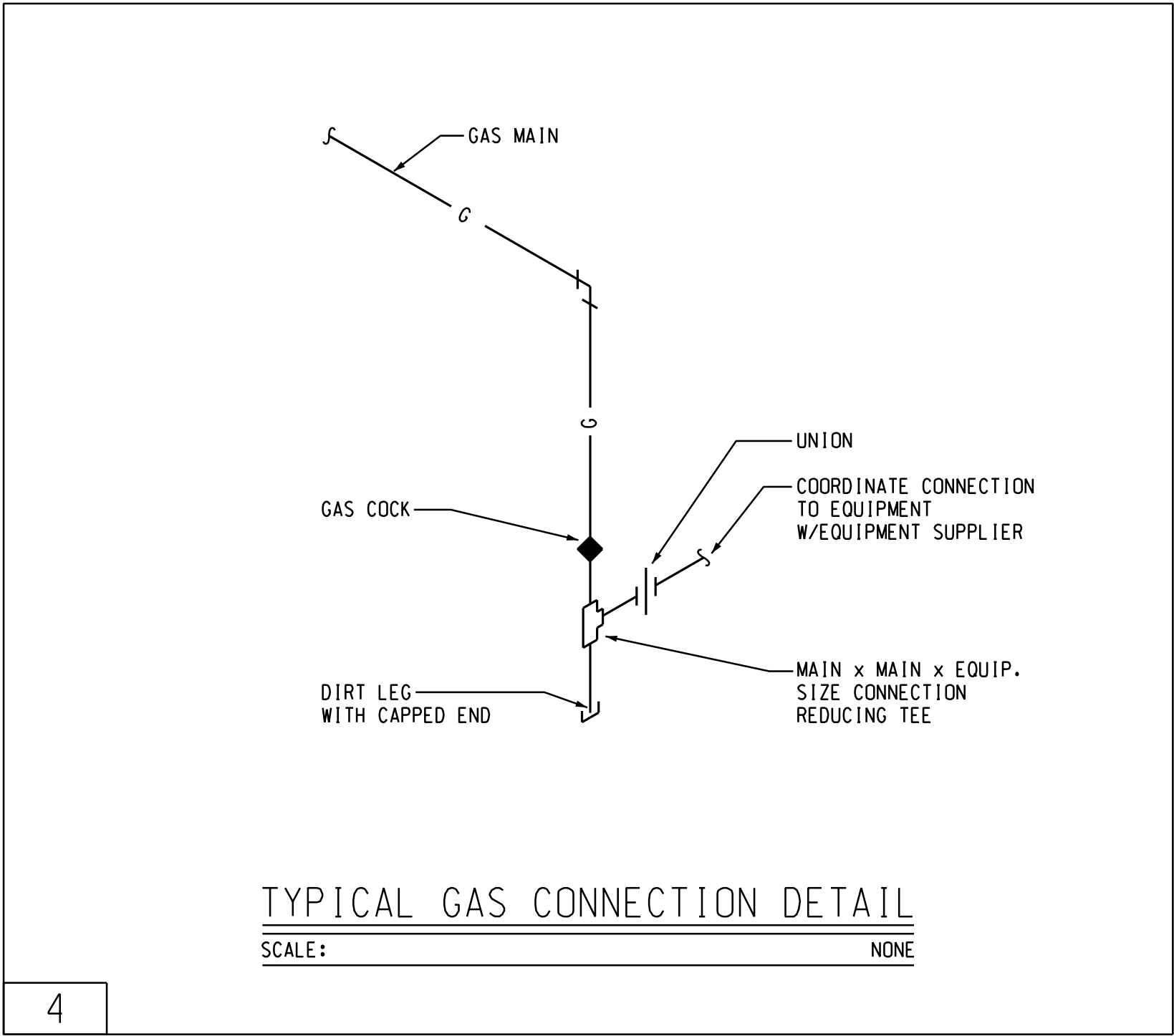
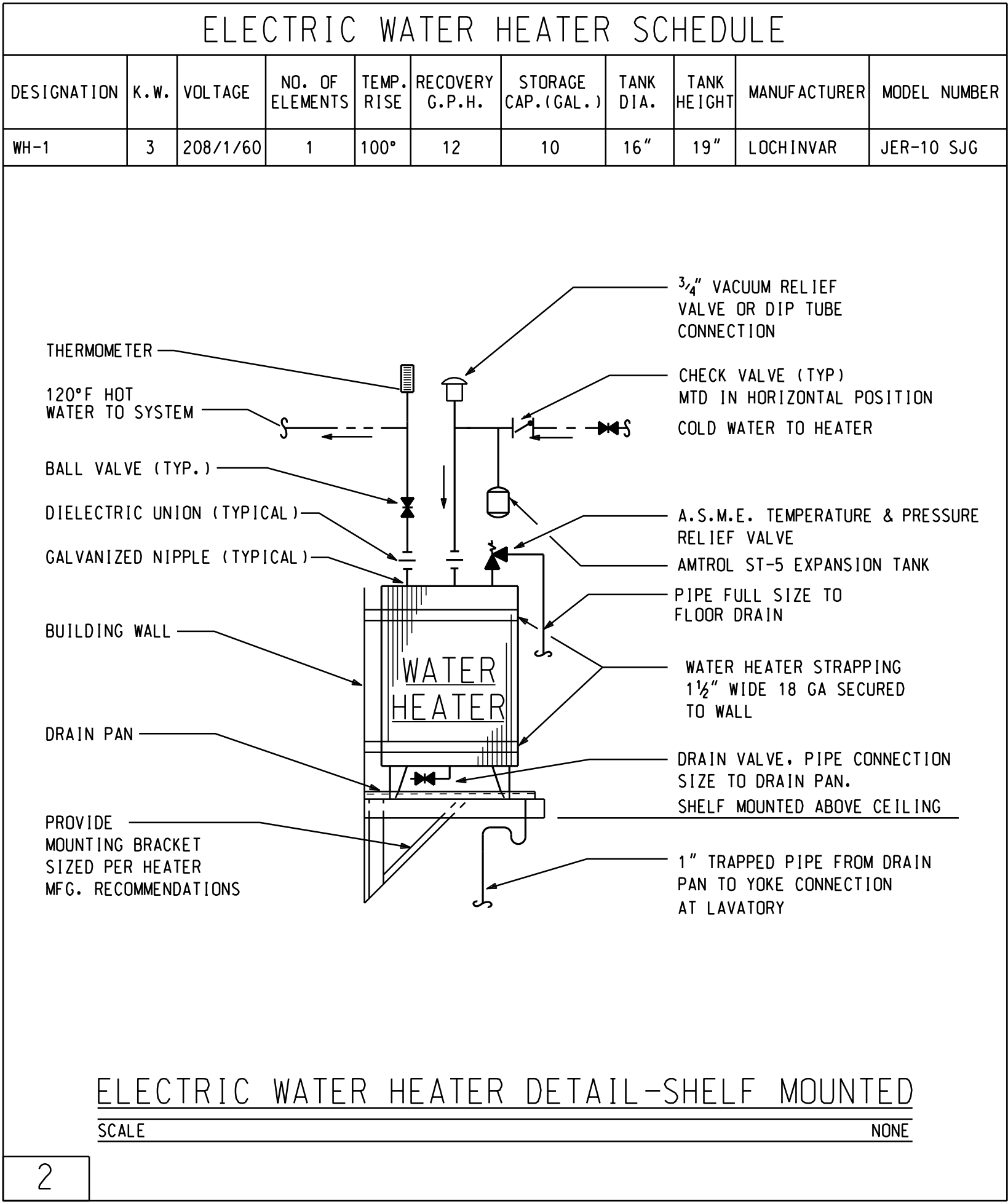
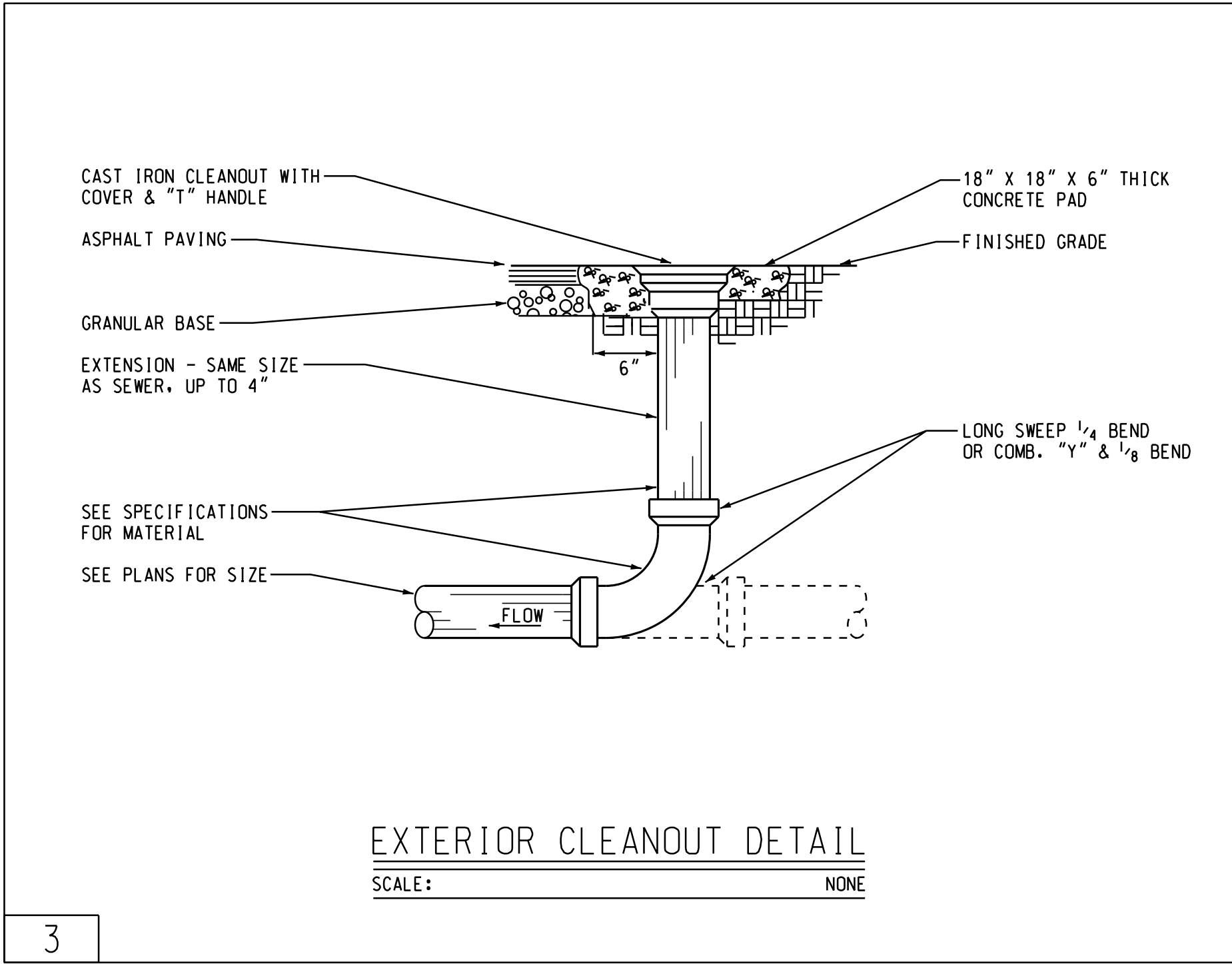
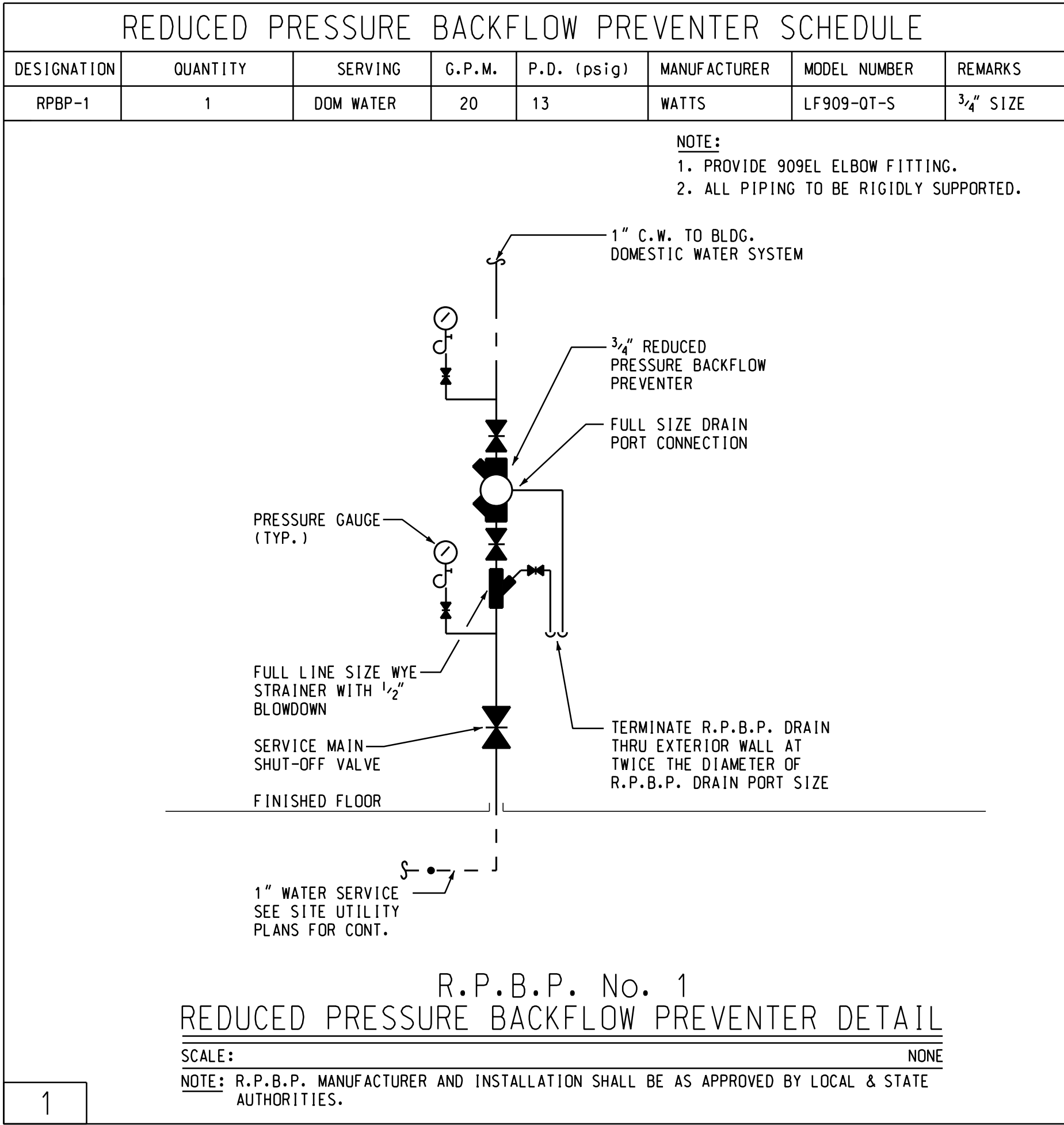
H.V.A.C.  
DETAILS

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### M3.1

SHEET NO.





PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREVIATIONS
---	COLD WATER (UNDERGROUND/UNDERSLAB)	
---	COLD WATER	C.W.
---	HOT WATER	H.W.
---SS---	SANITARY SEWER (UNDERGROUND)	
-----V-----	VENT	V
-----V.T.R.-----	VENT THROUGH THE ROOF	V.T.R.
C.O. --- C.O.	CLEAN-OUT	C.O.
P1	FIXTURE IDENTIFICATION (SEE SPECIFICATIONS)	
---	VALVES (SEE SPECIFICATIONS FOR TYPE)	
---	REDUCED PRESSURE BACKFLOW PREVENTER	R.P.B.P.
G	NATURAL GAS	G
---	GAS VALVE (PLUG COCK)	
---	PRESSURE REDUCING VALVE	P.R.V.

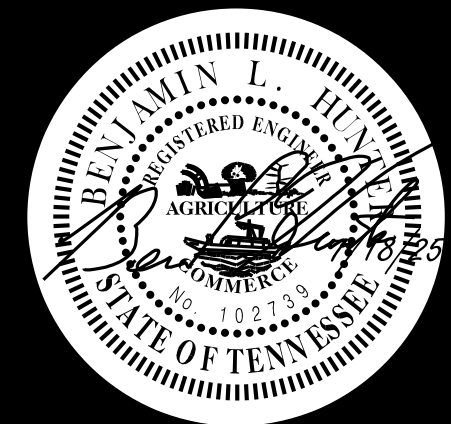
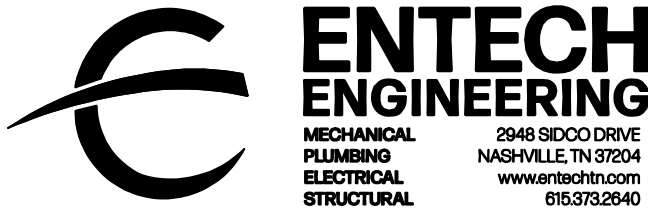
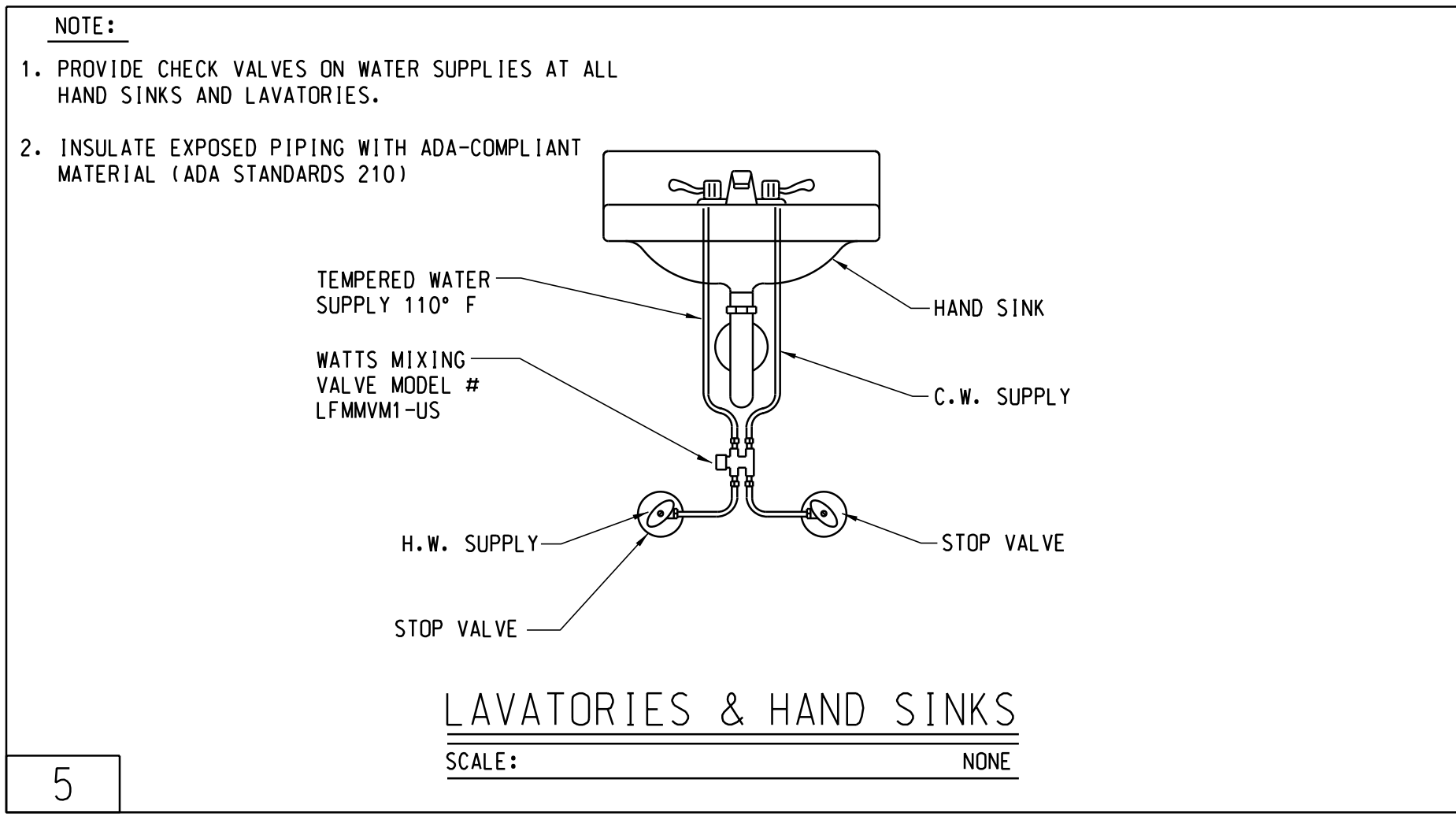
FIXTURE CONNECTION SCHEDULE

P-#	DESCRIPTION	C.W. (IN.)	H.W. (IN.)	WASTE (IN.)	VENT (IN.)
P1	H'CAP. WATER CLOSET (TANK TYPE - FLOOR MOUNTED) AMERICAN STANDARD 215AA.004 1.6 G.P.F. VITREOUS CHINA H'CAP. WATER CLOSET w/ELONGATED BOWL. CHURCH 9500SCT OPEN FRONT ELONGATED SEAT. MCGUIRE 173 SUPPLY/STOP	1/2	---	4	2
P2	LAVATORY (WALL HUNG) AMERICAN STANDARD 0355.012 LAVATORY SYMMONS S-20-0 SINGLE LEVEL FAUCET MCGUIRE 155WC OFF-SET GRID STRAINER w/TAIL PIECE MCGUIRE 8872 17 GA. CAST BRASS P-TRAP MCGUIRE LF170LK SUPPLY/STOP ZURN Z1231EZ LAVATORY CARRIER PROVIDE PRE-MOLDED INSULATION ON P-TRAP AND SUPPLY/STOP	1/2	1/2	1 1/4	1 1/4
P3	WATER COOLER (SINGLE, WALL HUNG w/BOTTLE FILLER) OASIS P68SBF STAINLESS STEEL COOLER w/BOTTLE FILLING STATION AND FILTER MCGUIRE 8872 17 GA. CAST BRASS P-TRAP MCGUIRE 170LK SUPPLY/STOP INSTALL AT ADA ACCESSIBLE HEIGHT	1/2	---	1 1/2	1 1/2
P4	UTILITY SINK (FLOOR MOUNTED w/SS LEGS) MUSTEE 17F 34 X 23 X 23-1/2 w/93.600 CHROME FINISH. 4" CENTERS. 7" SWING FAUCET MCGUIRE FLHST06LKS SUPPLY/STOP MCGUIRE TL15004017 TAILPIECE MCGUIRE 8872 17 GA. CAST BRASS P-TRAP PROVIDE PRE-MOLDED INSULATION ON P-TRAP AND SUPPLY/STOP	1/2	1/2	1 1/2	1 1/2
P5	ZURN Z-1321-CXL EXPOSED, NON-FREEZE ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT	3/4	---	---	---

NOTE:  
1. PROVIDE WATTS LFMMVM1-US THERMOSTATIC MIXING VALVE AT EACH HAND WASH LAVATORY OR SINK.

GAS CONNECTION SCHEDULE

ITEM	GX	DESCRIPTION	REMARKS	DEMAND LOAD
G1	AC#1	150 C.F.H.	SEE THIS SHEET FOR TYPICAL GAS CONNECTION DETAIL	
G2	AC#2	150 C.F.H.	GAS PIPE SIZING BASED ON 200 FT. LONGEST RUN WITH A 7-11" W.C. DELIVERY PRESSURE	



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SCHEDULES AND DETAILS

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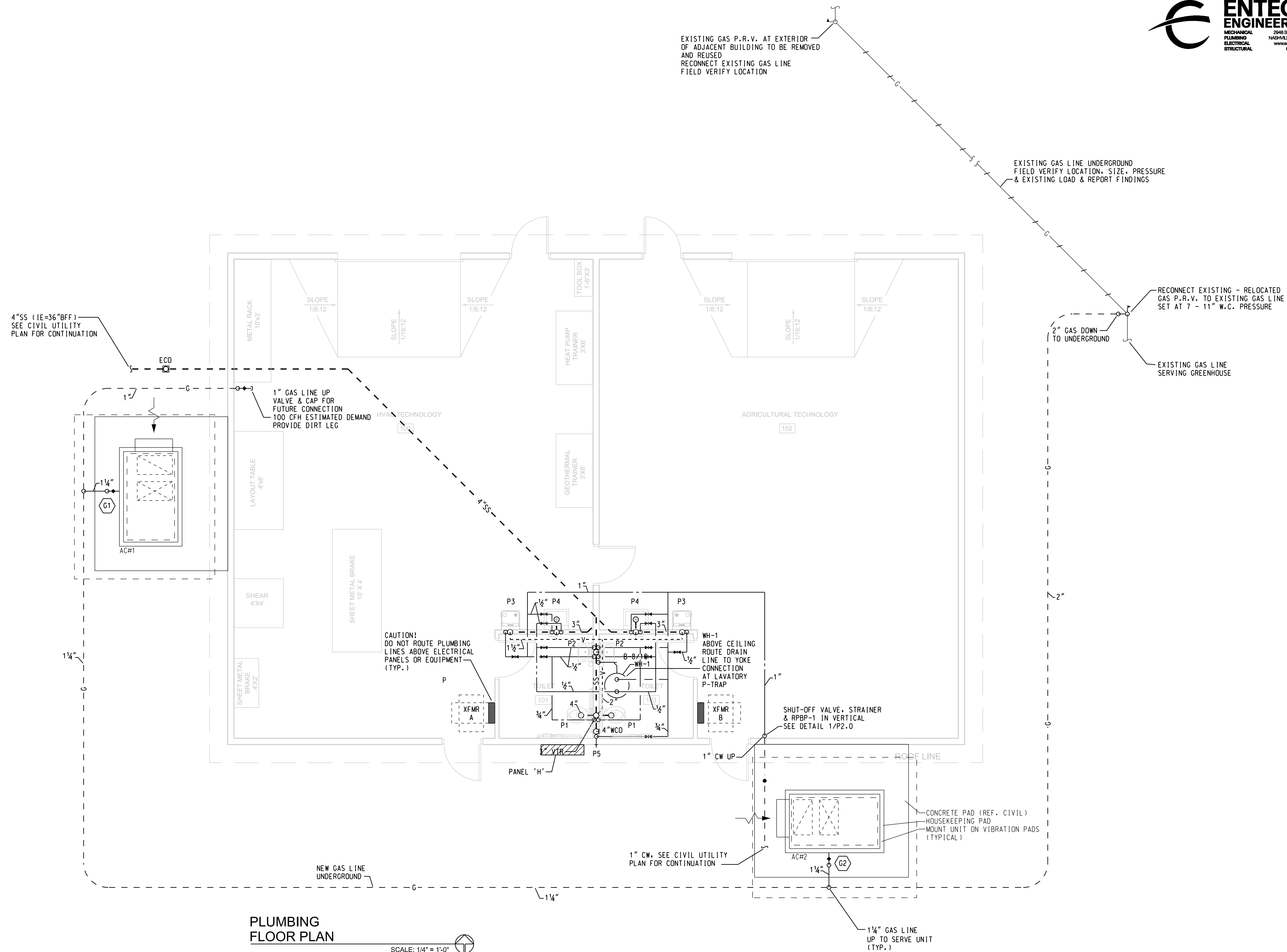
P2.0  
SHEET NO.



PLUMBING  
FLOOR PLAN

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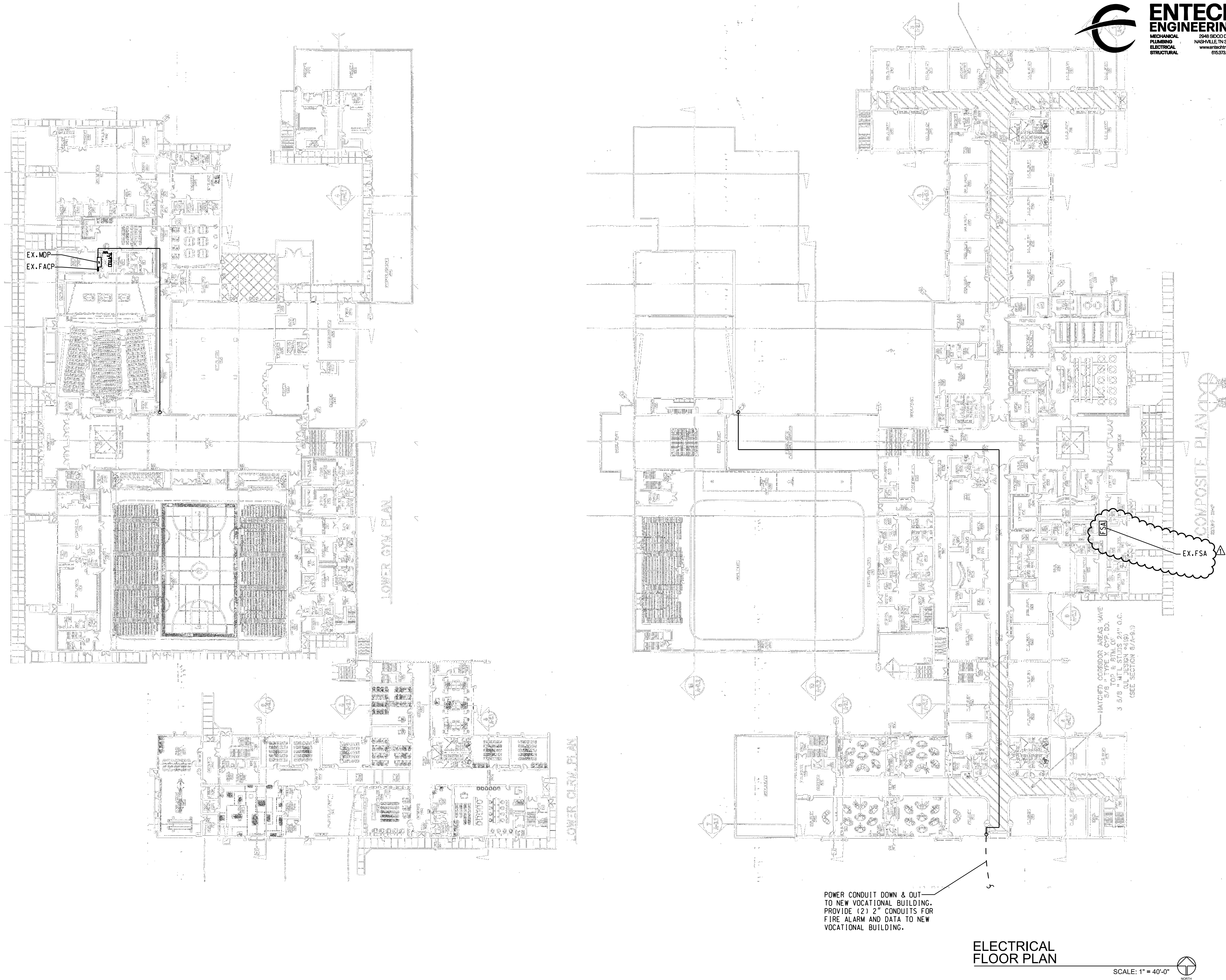
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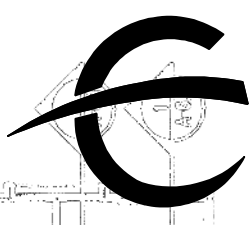


## PLUMBING FLOOR PLAN

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







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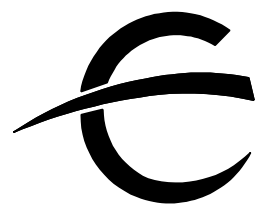
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FLOOR PLAN

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	E.E.I.
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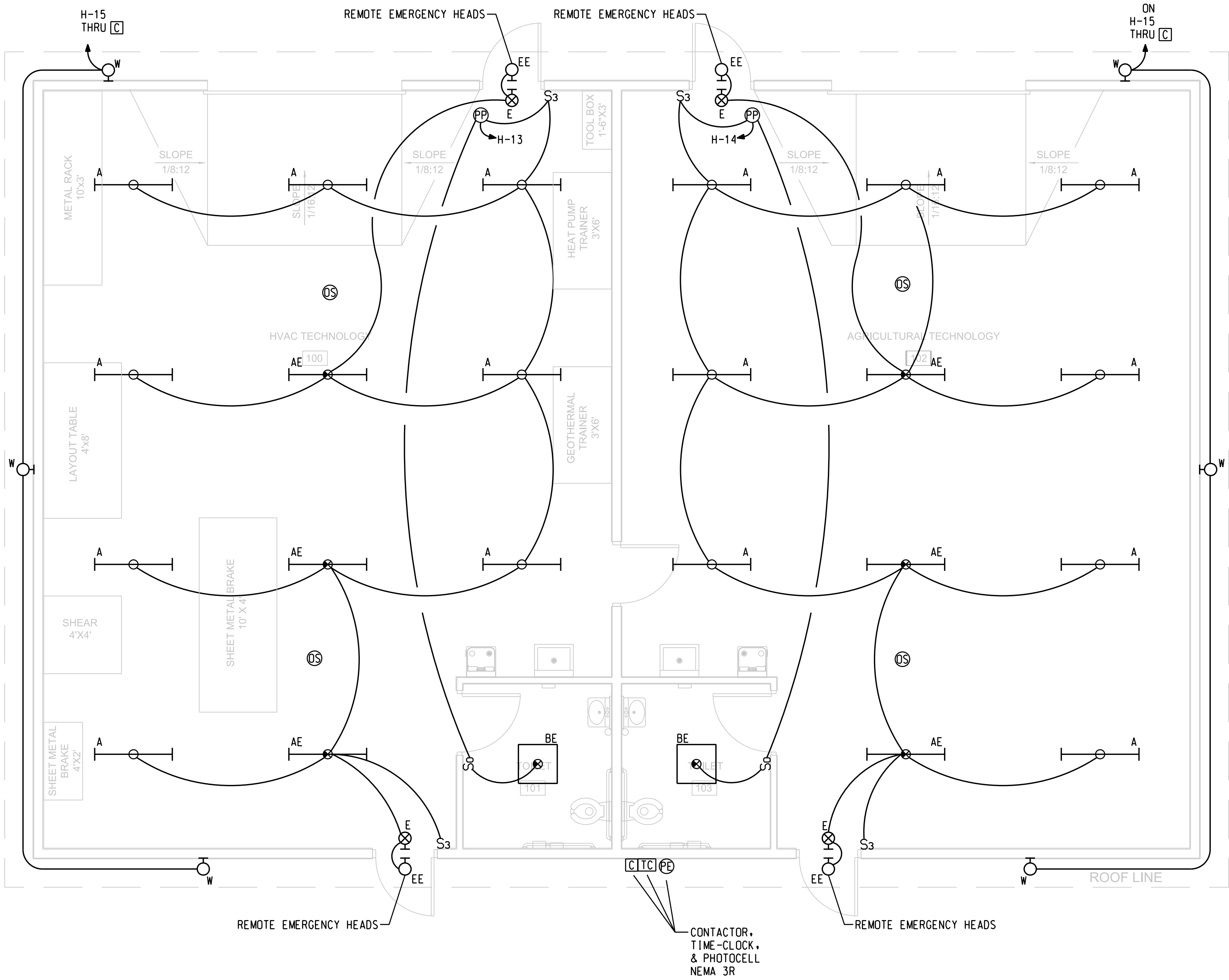
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LIGHTING  
FLOOR PLAN

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Revision Date	

**E1.1**  
SHEET NO.



- GENERAL NOTES:**
- A. ALL EXIT AND EMERGENCY BATTERIES TO BE CONNECTED TO AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT.
  - B. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.
  - C. ALL EXTERIOR LIGHTS ROUTED THROUGH THE LIGHTING CONTACTOR TO BE CONTROLLED WITH THE PHOTOCELL INITIATED TIMECLOCK. AIM PHOTOCELL TO THE NORTH EAST.

LIGHTING  
FLOOR PLAN

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





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POWER/SYSTEMS  
FLOOR PLAN

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Revision Date	

**E2.1**

SHEET NO.

**GENERAL FIRE ALARM NOTES:**

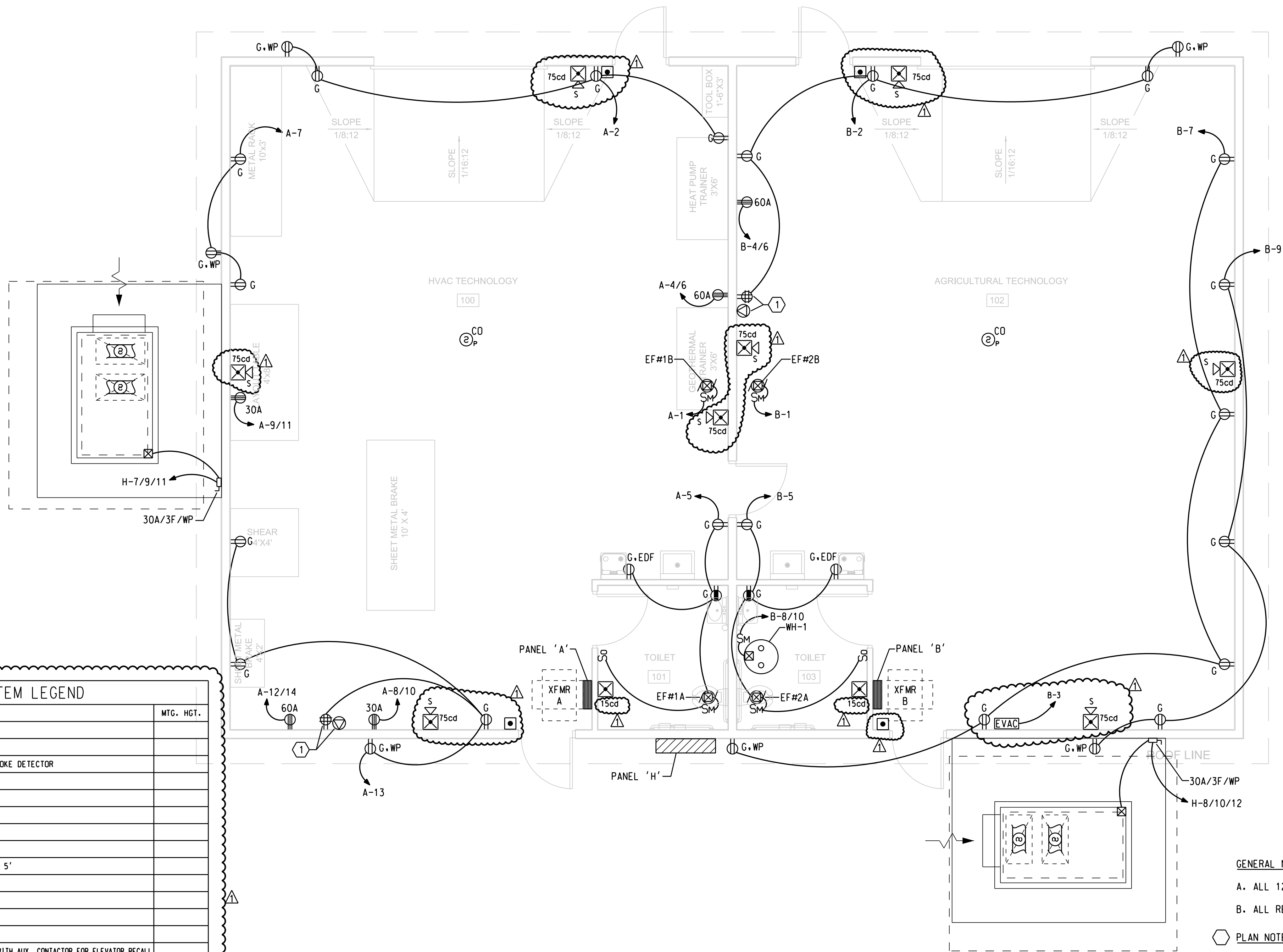
- ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE PROTECTION, ALARM AND COMMUNICATION SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION AND TESTING OF THE FIRE DETECTION, ALARM AND COMMUNICATION SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
- FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32.
- ALL AUDIBLE NOTIFICATION DEVICES ARE TO HAVE A 87db RATING AT 10 FEET. REFER TO SPECIFICATION SECTION 16721.
- THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS 'FIRE ALARM CIRCUIT'. THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. PROVIDE 'LOCK-ON' DEVICE FOR BREAKER(S) SERVING FIRE ALARM CONTROL UNITS.
- COORDINATE INSTALLATION OF DUCT SMOKE DETECTORS WITH MECHANICAL.

**GENERAL NOTES:**

- ALL 125-110V/1PH 15-20A RECEPTACLE CIRCUITS TO BE FITTED WITH GFCI PROTECTION.
- ALL RECEPTACLES TO BE TAMPER-PROOF TYPE.

**PLAN NOTES:**

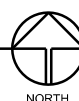
- COORDINATE EXACT LOCATION WITH TEACHER DESK LOCATION WITH OWNER/ARCHITECT.

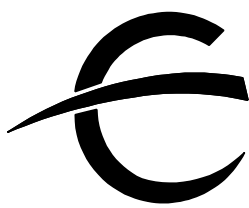


FIRE ALARM SYSTEM LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
□	FIRE ALARM MANUAL PULL STATION	
⊙ <sub>h/f</sub>	FIRE ALARM CEILING MOUNTED HEAT DETECTOR	
⊙ <sub>s</sub>	FIRE ALARM CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR	
⊙ <sub>s</sub>	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	
⊙ <sub>s</sub>	FIRE ALARM FLASHING LIGHT/HORN	
⊙ <sub>s</sub>	FIRE ALARM FLASHING LIGHT	
⊙ <sub>s</sub>	FIRE ALARM SPEAKER/STROBE	
⊙ <sub>s</sub>	FIRE ALARM CONTROL PANEL, TOP CONTROL AT 5'	
⊙ <sub>s</sub>	FIRE ALARM ANNUNCIATOR PANEL, TOP CONTROL AT 5'	
⊙	FIRE ALARM DOOR HOLDER	
⊙ <sub>s</sub>	FIRE ALARM FLOW DETECTOR/SWITCH	
⊙ <sub>s</sub>	FIRE ALARM TAMPER DETECTOR/SWITCH	
⊙ <sub>s</sub>	FIRE ALARM POST INDICATOR VALVE	
⊙ <sub>s</sub>	FIRE ALARM CEILING PHOTOELECTRIC SMOKE DETECTOR WITH AUX. CONTACTOR FOR ELEVATOR RECALL	
⊙ <sub>s</sub>	ELEVATOR ALARM "DO NOT USE ELEVATOR" - SEE SPECS	
⊙ <sub>s</sub>	FIRE ALARM VOICE EVACUATION CONTROL PANEL	
⊙ <sub>s</sub>	FIRE ALARM VOICE EVACUATION AMP	

**POWER/SYSTEMS  
FLOOR PLAN**

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





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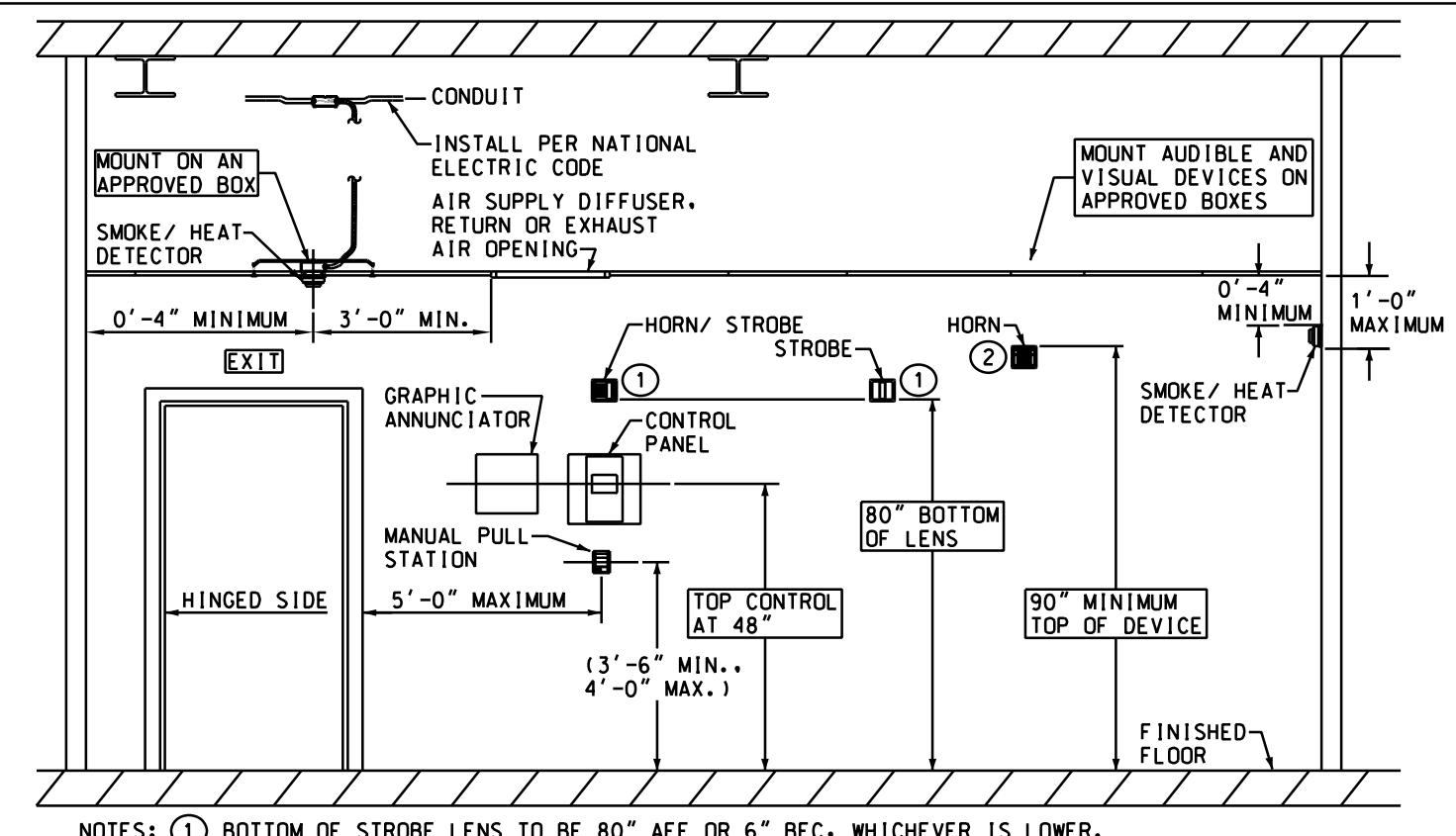


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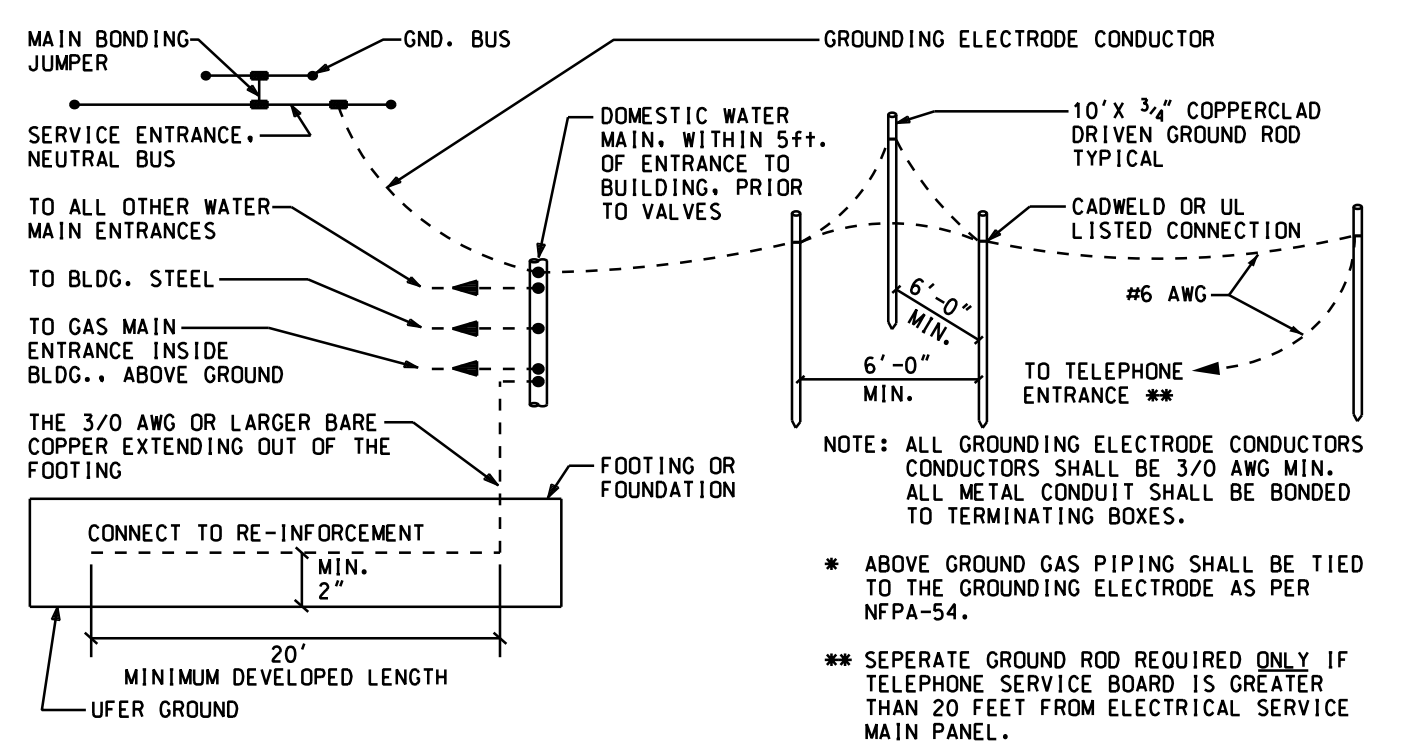
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**E3.1**  
SHEET NO.



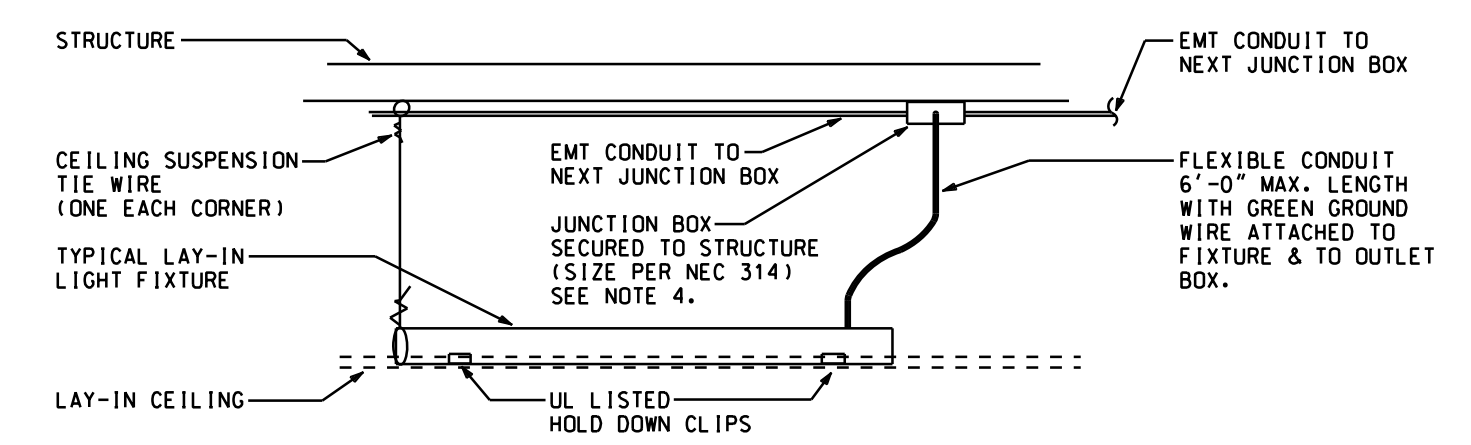
**NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS**  
SCALE: NONE

C3



**SERVICE ENTRANCE GROUNDING**  
SCALE: NONE

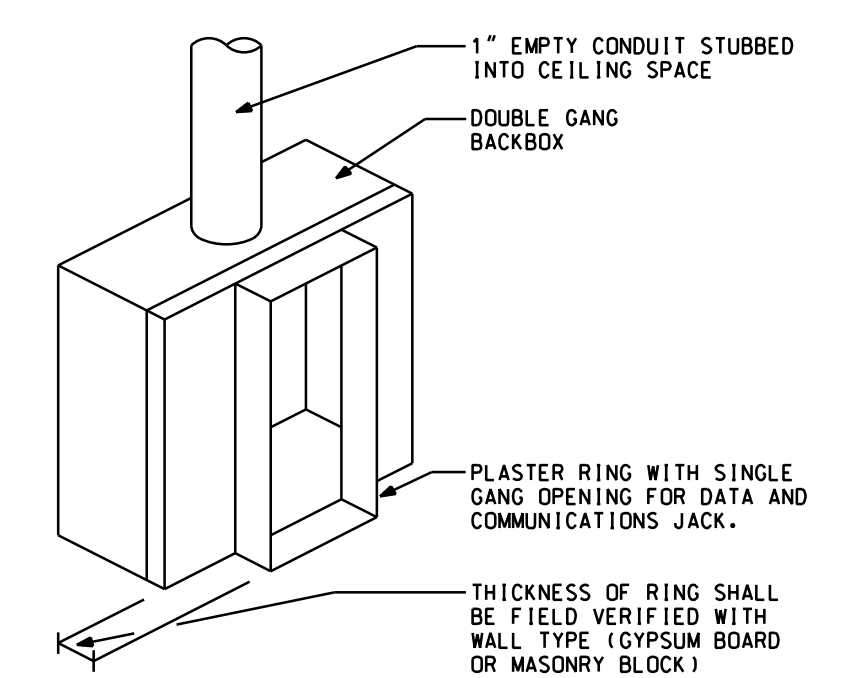
C1



- NOTES:
1. LIGHT FIXTURES SHALL NOT BE USED AS JUNCTION BOXES.
  2. FLEX CONDUITS SHALL NOT EXCEED 6'-0".
  3. USE UL LISTED T-BAR CLIPS FOR SURFACE MOUNTED FIXTURES.
  4. EQUIPMENT GROUND WIRE(S) FOR CIRCUIT(S) SPLICED (TAPPED) SHALL BE CONNECTED TOGETHER AND TO OUTLET BOX.

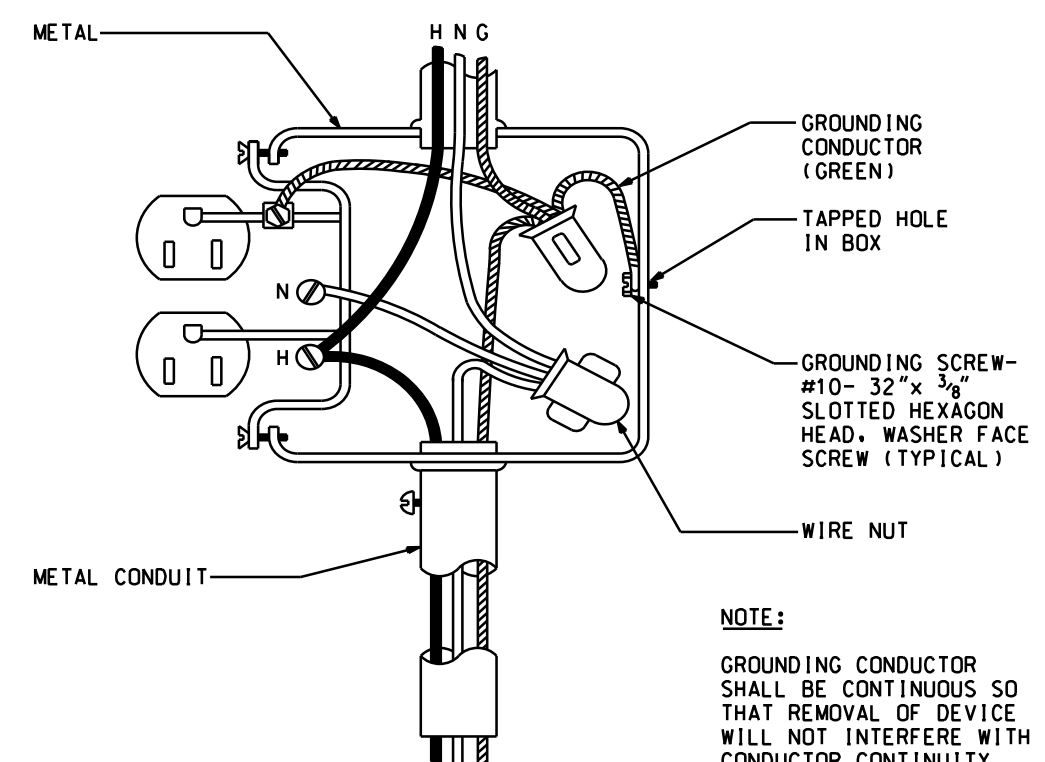
**TYPICAL LAY-IN FIXTURE INSTALLATION**  
SCALE: NONE

B5



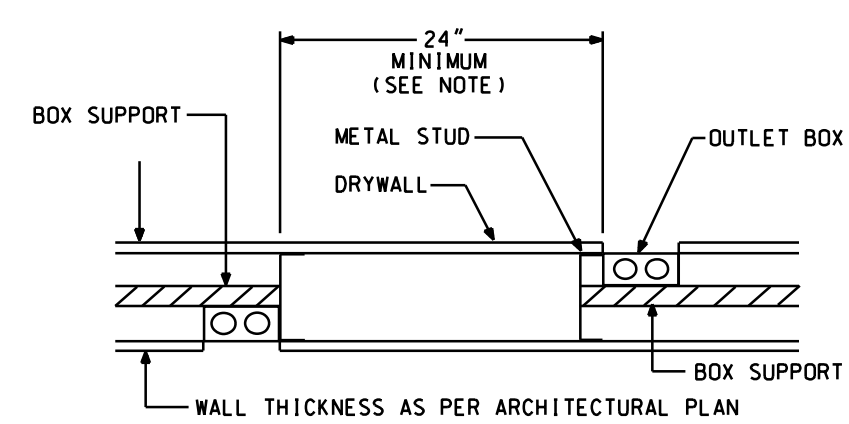
**DATA & COMMUNICATIONS OUTLET DETAIL**  
SCALE: NONE

G11



**RECEPTACLE GROUNDING DETAIL**  
SCALE: NONE

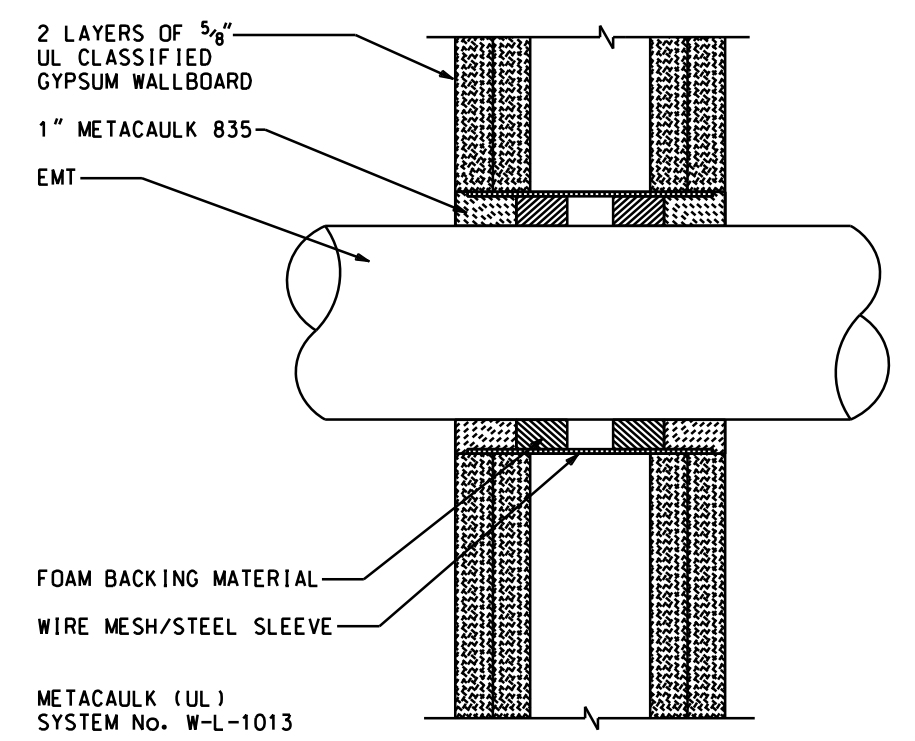
F5



NOTE: THE MINIMUM SHOWN MAY BE REDUCED (IF APPROVED BY LOCAL AUTHORITY)  
WHEN "WALL OPENING PROTECTIVE MATERIALS" (CLIV) ARE INSTALLED IN  
ACCORDANCE WITH THEIR CLASSIFICATION REQUIREMENTS. WHEN USED, UL  
CLASSIFIED MOLDABLE PUTTY PADS MUST BE USED ON BOTH BOXES.

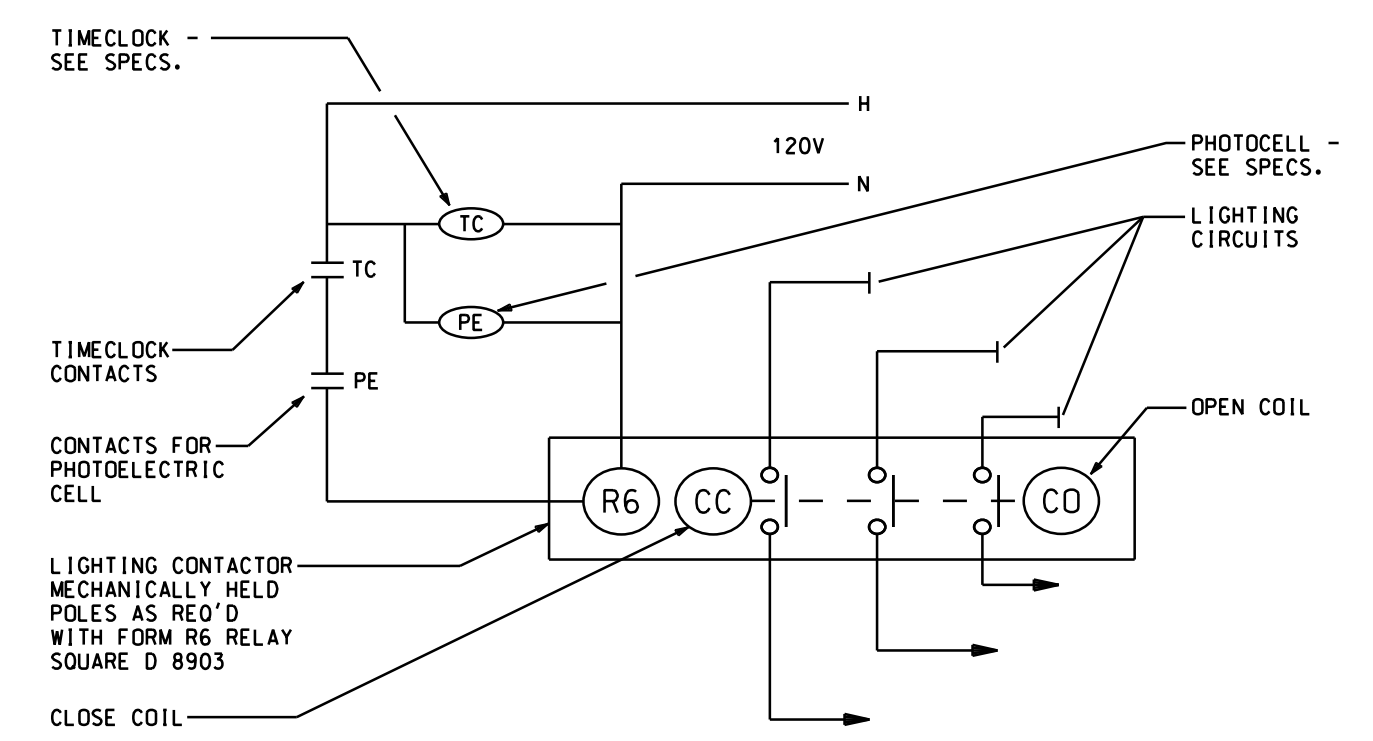
**RECEPTACLE SEPARATION IN WALLS**  
SCALE: NONE

F2



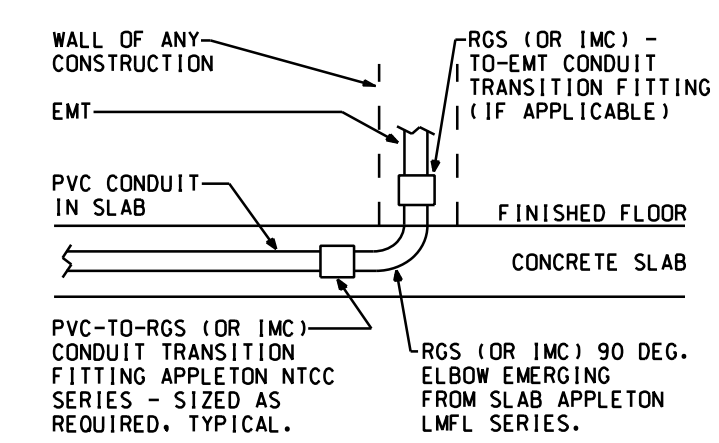
**GYPSUM WALL PENETRATION - 2 HOUR RATING - METACALK**  
SCALE: NONE

G10



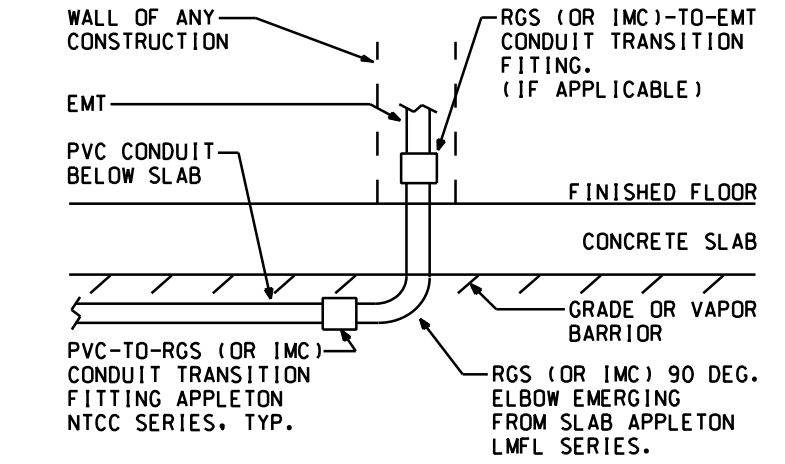
**MECHANICALLY HELD OUTSIDE LIGHTING CONTROL**  
SCALE: NONE

J8



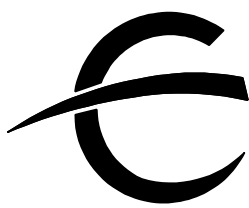
**CONDUIT TRANSITION:  
PVC-TO-RGS IN SLAB**  
SCALE: NONE

G7



**CONDUIT TRANSITION:  
PVC-TO-RGS BELOW SLAB**  
SCALE: NONE





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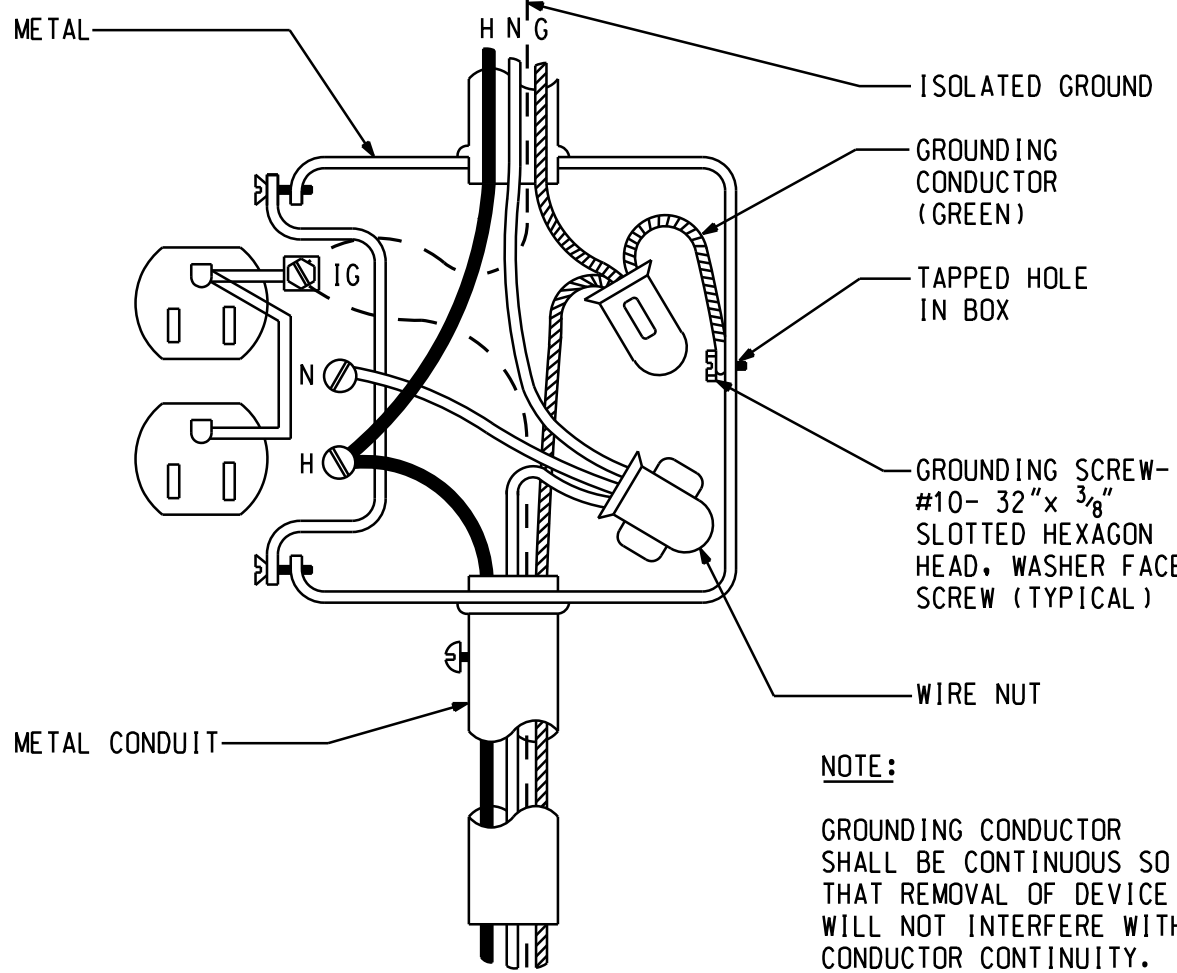
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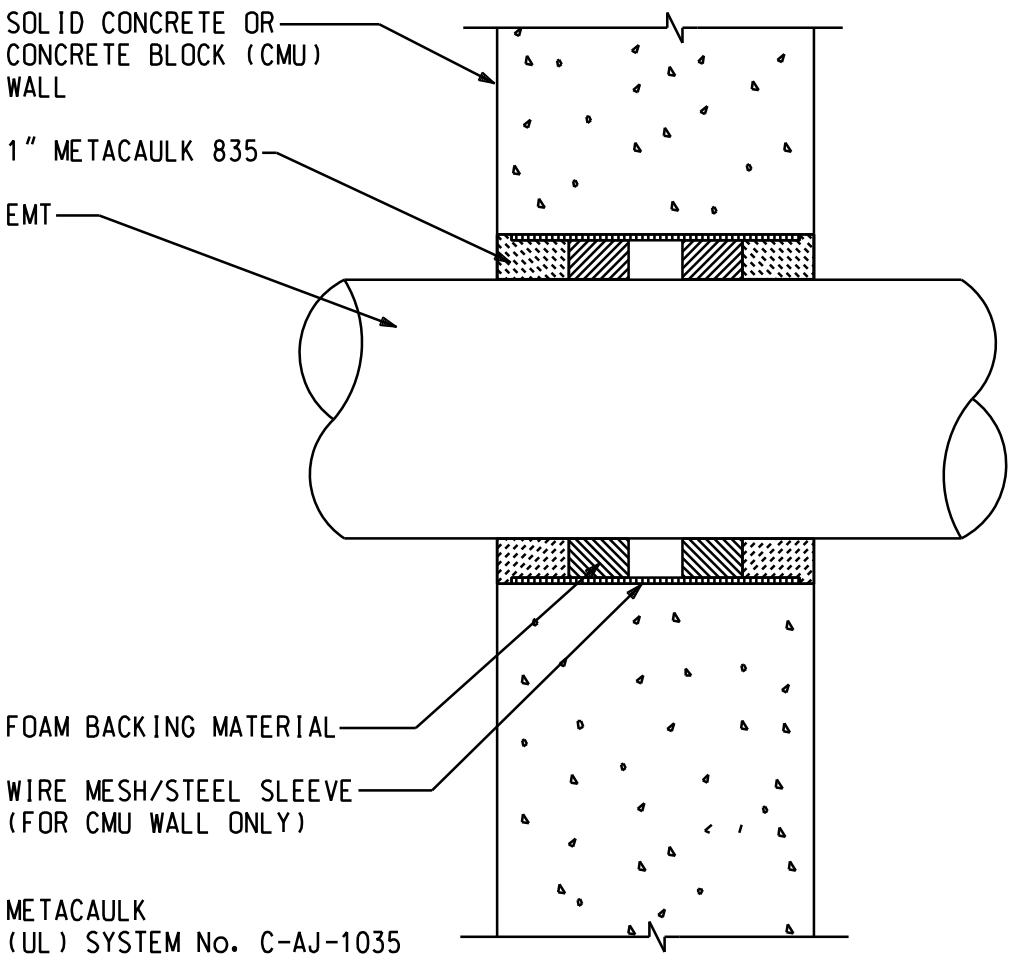
E3.2

SHEET NO.



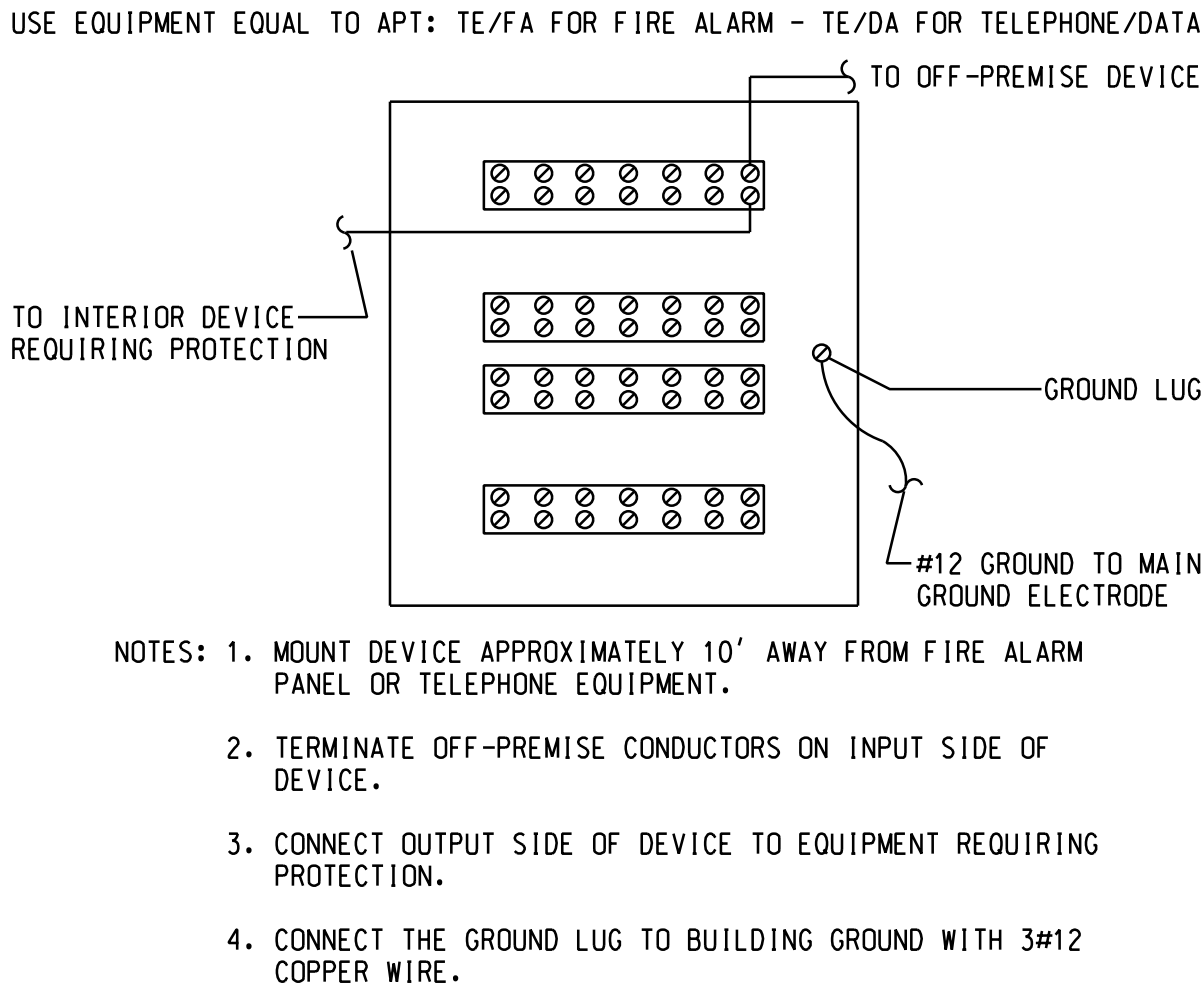
ISOLATED GROUND RECEPTACLE INSTALLATION  
SCALE: NONE

F7



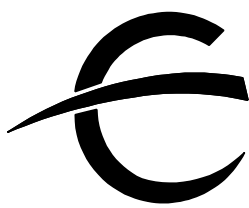
CONCRETE WALL PENETRATION - 2 HOUR RATING - METACAULK  
SCALE: NONE

G9



TVSS INSTALLATION WIRING DIAGRAM  
INCOMING DATA AND FIRE LINES  
SCALE: NONE

J9



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LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS		MOUNTING	REMARKS
				QTY	TYPE		
A	COLUMBIA	MPS4-4OHL-CW-EDU	120/ 277	--	37.6W LED	SURFACE	4' LINEAR STRIP
AE	COLUMBIA	MPS4-4OHL-CW-EDU-ELL14	120/ 277	--	37.6W LED	SURFACE	4' LINEAR STRIP W/ EM BATTERY
BE	COLUMBIA	LCAT22-S-4OL044SM-EDU-ELL14	120/ 277	--	29.7W LED	SURFACE	2X2 W/ EM BATTERY
W	EXO	PRL-C-LS-4K	120/ 277	--	35W LED	SURFACE	WALLPACK
E	COMPASS	CCRGRC	120/ 277	--	--	UNV	EXIT SIGN
EE	COMPASS	CORD	120/ 277	--	--	UNV	REMOTE HEADS

BRANCH CIRCUITING LEGEND		
	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
	A-1,3	TWO 1-POLE CKT HOMERUNS TO PANEL A
	A-1,3,5	THREE 1-POLE CKT HOMERUNS TO PANEL A
	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3,2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2017 NEC 210.4		

GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
	CEILING OUTLET, SURFACE FIXTURE	
	CEILING OUTLET, SURFACE FIXTURE w/BATTERY BACK UP	
	CEILING OUTLET, RECESSED FIXTURE	
	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
	BRACKET OUTLET	
	SURFACE FLUORESCENT LIGHTING FIXTURE	
	RECESSED FLUORESCENT LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHT FIXTURE	
	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	
S	SINGLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
S4	FOUR-WAY SWITCH	48" AFF
So	DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH	48" AFF
	DUPLEX GROUNDING RECEPTACLE	18" AFF
	DUPLEX GROUNDING RECEPTACLE	ABC
	FLOOR RECEPTACLE	
	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
	JUNCTION OR PULL BOX	
	MOTOR, E.F. DENOTES EXHAUST FAN	
SM	MANUAL MOTOR STARTER OR RELAY CONTROL	
	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
	LIGHTING OR POWER PANEL	
	MAIN OR SUB-DISTRIBUTION PANEL	
	TIME CLOCK - SEE SPECS	
	CONTACTOR - SEE SPECS	
	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
	THERMOSTAT, SEE MECHANICAL	
	CONDUIT, CONCEALED IN CEILING OR WALL	
	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
	CONDUIT, EXPOSED	
	CONDUIT, TURNING UP	
	CONDUIT, TURNING DOWN	
	CONDUIT, ELECTRICAL PRIMARY	
	CONDUIT, ELECTRICAL SECONDARY	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
ABC	ABOVE COUNTER	
UC	UNDERCOUNTER	
UON	UNLESS OTHERWISE NOTED	
GC	GENERAL CONTRACTOR	
MC	MECHANICAL CONTRACTOR	
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRIC DRINKING FOUNTAIN	
WH	WATER HEATER	
RTU	ROOF TOP UNIT	
TTB	TELEPHONE TERMINAL BOARD	
	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1" C. TO ABOVE CEILING)	18" AFF
	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR	
	POWER PACK	
	AREA OR STREET LIGHTING FIXTURE	

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E5.1

SHEET NO.



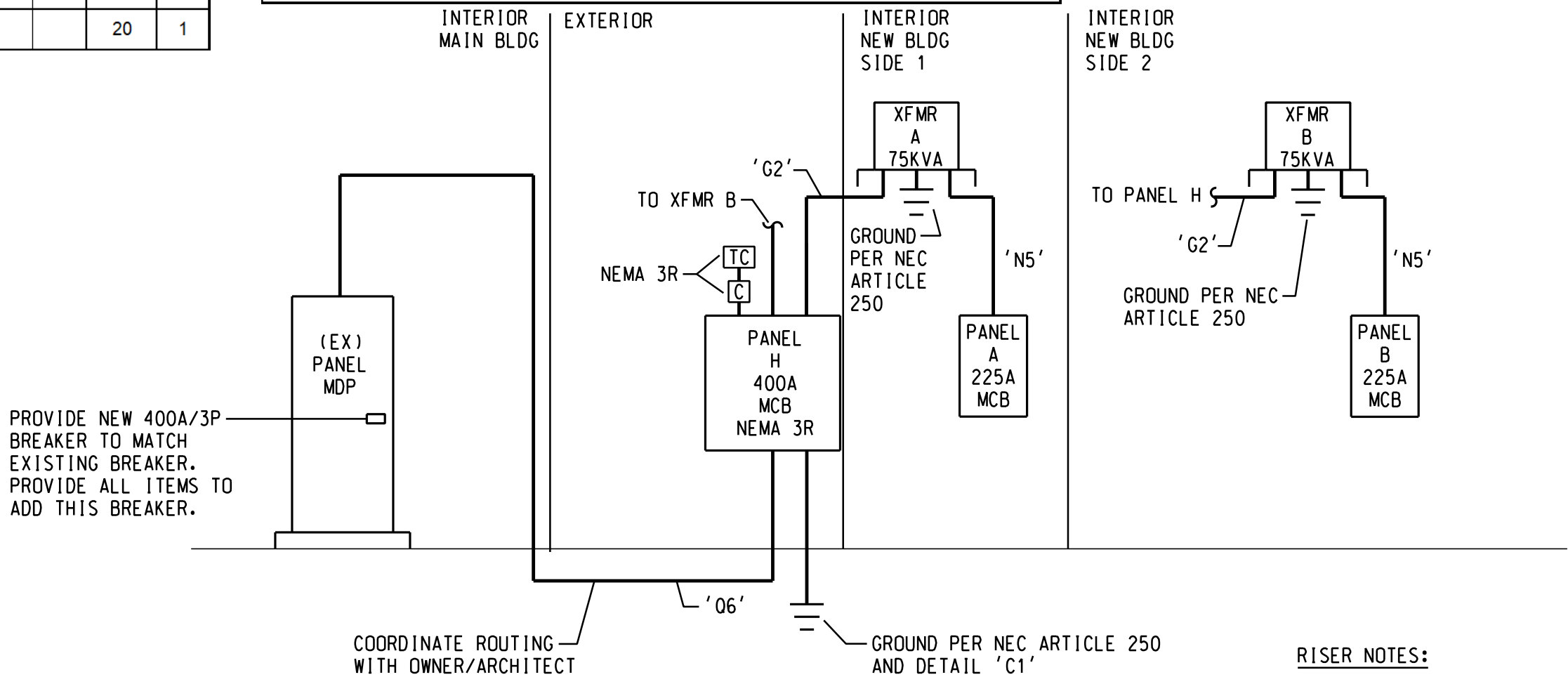
PANEL: H		TYPE: I-LINE		MOUNTING: _SURFACE		AMPS SIC: 42000		FDR NO.: Q6						
VOLTAGE: 277/480V 3P,4W		MAINS: 400		AMP MCB		SECTIONS: 1		SERVICE FROM: MDP						
FUSE/BKR.		FDR.		CKT.	POLE	PHASE K.W.			POLE	CKT.		FDR.	FUSE/BKR.	
AMPS	PLS.	NO.	SERVES		NO.	A	B	C	NO.	K.W.	SERVES	NO.	AMPS	PLS.
110	3	G2	XFMR A	2.44	1	6.74	--	--	2	4.30	XFMR B	G2	110	3
				8.22	3	--	16.32	--	4	8.10				
				7.93	5	--	--	13.52	6	5.59				
20	3	A3	AC#1	4.43	7	8.86	--	--	8	4.43	AC#2	A3	20	3
				4.43	9	--	8.86	--	10	4.43				
				4.43	11	--	--	8.86	12	4.43				
20	1	A2	LIGHTING SIDE 1	1.20	13	2.40	--	--	14	1.20	LIGHTING SIDE 2	A2	20	1
20	1	A2	EXTERIOR LIGHTING	1.00	15	--	1.00	--	16	0.00	SPARE		20	1
20	1		SPARE	0.00	17	--	--	0.00	18	0.00	SPARE		20	1
20	1		SPARE	0.00	19	0.00	--	--	20	0.00	SPARE		20	1
20	1		SPARE	0.00	21	--	0.00	--	22	0.00	SPACE		20	1
20	1		SPARE	0.00	23	--	--	0.00	24	0.00	SPACE		20	1
20	1		SPACE ONLY	0.00	25	0.00	--	--	26	0.00	SPD	B3	30	3
20	1		SPACE ONLY	0.00	27	--	0.00	--	28	0.00				
20	1		SPACE ONLY	0.00	29	--	--	0.00	30	0.00				
				TOTALS:		18.00		26.18		22.38				
				TOTAL:		66.56								

PANEL: A			TYPE: NQOD		MOUNTING: _SURFACE			AMPS SIC: 10000			FDR NO.: N5			
VOLTAGE: 120/208V 3P,4W			MAINS: 225 AMP MCB		SECTIONS: 1			SERVICE FROM: XFMR A						
FUSE/BKR.		FDR.	SERVES	CKT. K.W.	POLE NO.	PHASE K.W.			POLE NO.	CKT. K.W.	SERVES	FDR. NO.	AMPS	FUSE/BKR. PLS.
AMPS	PLS.	NO.				A	B	C						
20	1	A2	EF#1B	1.18	1	1.90	--	--	2	0.72	REC - BY DOOR	A2	20	1
20	1		SPARE	1.20	3	--	5.88	--	4	4.68	60A RECEPT	D1	60	2
20	1	A2	EDF,EF#1A, RECEPTS	0.91	5	--	--	5.59	6	4.68				
20	1	A2	REC - WEST	0.54	7	0.54	--	--	8	0.00	SPARE		20	1
30	2	B1	30A REC	2.34	9	--	2.34	--	10	0.00	SPARE		20	1
				2.34	11	--	--	2.34	12	0.00	SPARE		20	1
20	1		SPARE	0.00	13	0.00	--	--	14	0.00	SPD	B3	30	3
20	1		SPARE	0.00	15	--	0.00	--	16	0.00				
20	1		SPARE	0.00	17	--	--	0.00	18	0.00				
20	1		SPACE ONLY	0.00	19	0.00	--	--	20	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	21	--	0.00	--	22	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	23	--	--	0.00	24	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	25	0.00	--	--	26	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	27	--	0.00	--	28	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	29	--	--	0.00	30	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	31	0.00	--	--	32	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	33	--	0.00	--	34	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	35	--	--	0.00	36	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	37	0.00	--	--	38	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	39	--	0.00	--	40	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	41	--	--	0.00	42	0.00	SPACE ONLY		20	1
				TOTALS:	2.44 8.22 7.93									
				TOTAL:	18.59									

PANEL: B		TYPE: NQOD		MOUNTING: _SURFACE			AMPS SIC: 10000			FDR NO.: N5				
VOLTAGE: 120/208V 3P,4W		MAINS: 225 AMP MCB			SECTIONS: 1			SERVICE FROM: XFMR B						
FUSE/BKR.		FDR.	SERVES	CKT. K.W.	POLE NO.	PHASE K.W.			POLE NO.	CKT. K.W.	SERVES	FDR. NO.	FUSE/BKR. AMPS	PLS.
AMPS	PLS.	NO.				A	B	C						
20	1	A2	EF#2B	1.18	1	1.90	--	--	2	0.72	REC - BY DOOR	A2	20	1
20	1	A2	FIRE ALARM EVAC	1.20	3	--	5.88	--	4	4.68	60A RECEPT	D1	60	2
20	1	A2	EDF,EF#2A,RECEPTS	0.91	5	--	--	5.59	6	4.68				
20	1	A2	REC - EAST	0.90	7	2.40	--	--	8	1.50	WH-1	A2	20	2
20	1	A2	REC - EAST	0.72	9	--	2.22	--	10	1.50				
20	1		SPARE	0.00	11	--	--	0.00	12	0.00	SPARE		20	1
20	1		SPARE	0.00	13	0.00	--	--	14	0.00	SPD	B3	30	3
20	1		SPARE	0.00	15	--	0.00	--	16	0.00				
20	1		SPARE	0.00	17	--	--	0.00	18	0.00				
20	1		SPARE	0.00	19	0.00	--	--	20	0.00	SPACE ONLY		20	1
20	1		SPARE	0.00	21	--	0.00	--	22	0.00	SPACE ONLY		20	1
20	1		SPARE	0.00	23	--	--	0.00	24	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	25	0.00	--	--	26	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	27	--	0.00	--	28	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	29	--	--	0.00	30	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	31	0.00	--	--	32	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	33	--	0.00	--	34	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	35	--	--	0.00	36	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	37	0.00	--	--	38	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	39	--	0.00	--	40	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	41	--	--	0.00	42	0.00	SPACE ONLY		20	1
TOTALS:				4.30		8.10		5.59						
TOTAL:				17.99										

LOAD SUMMARY				
Panel: H		Volts: 480		Phase: 3
Load Type	Connected KW	Demand Factor	Demand KW	Phase AMPS
LIGHTING	3.40	1.00	3.40	4.09
RECEPTACLES	27.00	—	18.50	22.25
MISC.	6.58	1.00	6.58	7.91
HEATING	0.00	1.00	0.00	0.00
COOLING	26.58	1.00	26.58	31.97
KITCHEN EQUIP	0.00	1.00	0.00	0.00
MEDICAL EQUIP	0.00	1.00	0.00	0.00
MOTORS	0.00	1.00	0.00	0.00
ELEVATORS	0.00	1.00	0.00	0.00
WATER HEATERS	3.00	1.00	3.00	3.61
SPARE CAPACITY	0.00	1.00	0.00	0.00
Total	66.56	—	58.06	69.84
Minimum feeder AMPS	1.25	X	69.84	87.29
Feeder AMPS used:	400			

BRANCH CIRCUIT AND FEEDER LEGEND	
FEEDER NO.	CONDUIT AND WIRE
A2	1/2" - 2 #12 & 1 #12 GND.
A3	3/4" - 3 #12 & 1 #12 GND.
B1	3/4" - 2 #10 & 1 #10 GND.
B3	3/4" - 4 #10 & 1 #10 GND.
D1	1" - 2 #6 & 1 #10 GND.
N5	2 1/2" - 4 #4/0 & 1 #2 GND.
G2	1 1/4" - 3 #2 & 1 #6 GND.
O6	4" - 4 #600MCM & 1 #3 GND.

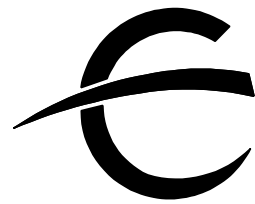


277/480 VOLT, 3 PHASE, 4 WIRE  
ELECTRICAL RISER DIAGRAM

SCALE: NONE

RISER NOTES:

- BOND ALL PANELBOARD GROUNDING BUSES TOGETHER WITH MINIMUM #10 AWG COPPER CONDUCTOR IN CONDUIT IN ACCORDANCE WITH NEC 517.14
- TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICAL 250 AND DETAIL C4.
- EXISTING EQUIPMENT IS DENOTED WITH '(EX)'.



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ELECTRICAL RISER  
AND PANELBOARDS

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	E.E.I.
Revision Date	09.05.2025
Revision Date	
Revision Date	

E6.1

SHEET NO.