

<div> <div>SHEET INDEX</div> <div></div> </div>	
NO.	SHEET NAME
GENERAL	
T100	COVER SHEET
T110	SHEET INDEX AND GENERAL INFORMATION
T111	ARCHITECTURAL ABBREVIATIONS NOTES AND LEGENDS
T120	LIFE SAFETY PLAN AND CODE INFORMATION
CIVIL	
C001	SITE PLAN - MAINTENANCE SHOP
C002	UTILITY PLAN - MAINTENANCE SHOP
ARCHITECTURAL	
D110	DEMOLITION PLAN
A100	ARCHITECTURAL SITE PLAN
A101	ENLARGED ARCHITECTURAL SITE PLAN AND SITE DETAILS
A110	DIMENSIONED FLOOR PLAN
A120	NOTED FLOOR PLAN
A130	REFLECTED CEILING PLAN
A150	ROOF PLAN
A201	EXTERIOR ELEVATIONS
A310	BUILDING SECTIONS
A320	WALL SECTIONS
A321	WALL SECTIONS
A322	EXTERIOR DETAILS
A330	PARTITION TYPES, DETAILS AND INTERIOR DETAILS
A410	ENLARGED PLANS
A411	ENLARGED STAIR PLAN, SECTION AND DETAILS
A420	ENLARGED TOILET PLANS AND ELEVATIONS
A460	INTERIOR ELEVATIONS AND MILLWORK DETAILS
A610	FINISH SCHEDULE, PLAN, AND DETAILS
A611	FURNITURE, FIXTURES, AND EQUIPMENT PLAN AND SCHEDULES
A620	WINDOW LEGEND, DOOR SCHEDULE & DETAILS
STRUCTURAL	
S100	STRUCTURAL NOTES
S101	FOUNDATION PLAN
S102	FOUNDATION DETAILS
S103	STRUCTURAL ELEVATIONS
S201	MEZZANINE FRAMING PLAN
MECHANICAL	
M001	MECHANICAL NOTES, LEGEND, & INDEX
M101	HVAC FLOOR PLAN
M102	MEZZANINE MECHANICAL PLANS
M201	MECHANICAL PIPING FLOOR PLAN
M301	MECHANICAL SECTIONS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M501	MECHANICAL SCHEDULES
PLUMBING	
P001	PLUMBING NOTES, LEGEND, & INDEX
P101	SANITARY SEWER PLAN
P201	DOMESTIC WATER PLAN
P301	PLUMBING DETAILS
P401	PLUMBING SCHEDULES AND RISERS
ELECTRICAL	
E001	ELECTRICAL NOTES, LEGEND, & INDEX
E201	ELECTRICAL LIGHTING PLAN
E301	ELECTRICAL POWER & SYSTEMS PLAN
E302	ELECTRICAL MEZZANINE AND ENLARGED PLANS
E401	HVAC EQUIPMENT POWER PLAN
E501	ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E701	ELECTRICAL DETAILS
FIRE PROTECTION	
F001	FIRE PROTECTION NOTES, LEGEND, INDEX, & MEZZANINE PLAN
F101	FIRE PROTECTION FLOOR PLAN

## PROJECT LOCATION



WDD ARCHITECTS

**ARCHITECTS-INTERIOR DESIGN-PLANNERS**  
**5050 NORTSHORE LANE**  
**NORTH LITTLE ROCK, ARKANSAS 72118**  
**PH. # (501)376-6681**  
**EMAIL: wdd@wddarchitects.com**

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

SIGNATURE

WDD  
ARCHITECTS

REGISTERED ARCHITECTS  
WITTERBERG  
DELONY  
&  
DAVIDSON, INC.  
2-17-15

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

CONTENTS

SHEET INDEX AND GENERAL  
INFORMATION

REVISIONS

NO.	DATE	DESCRIPTION
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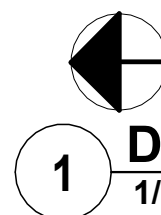
24-096  
JOB NO.  
02.14.2025  
DATE  
  
ISSUE  
  
T110



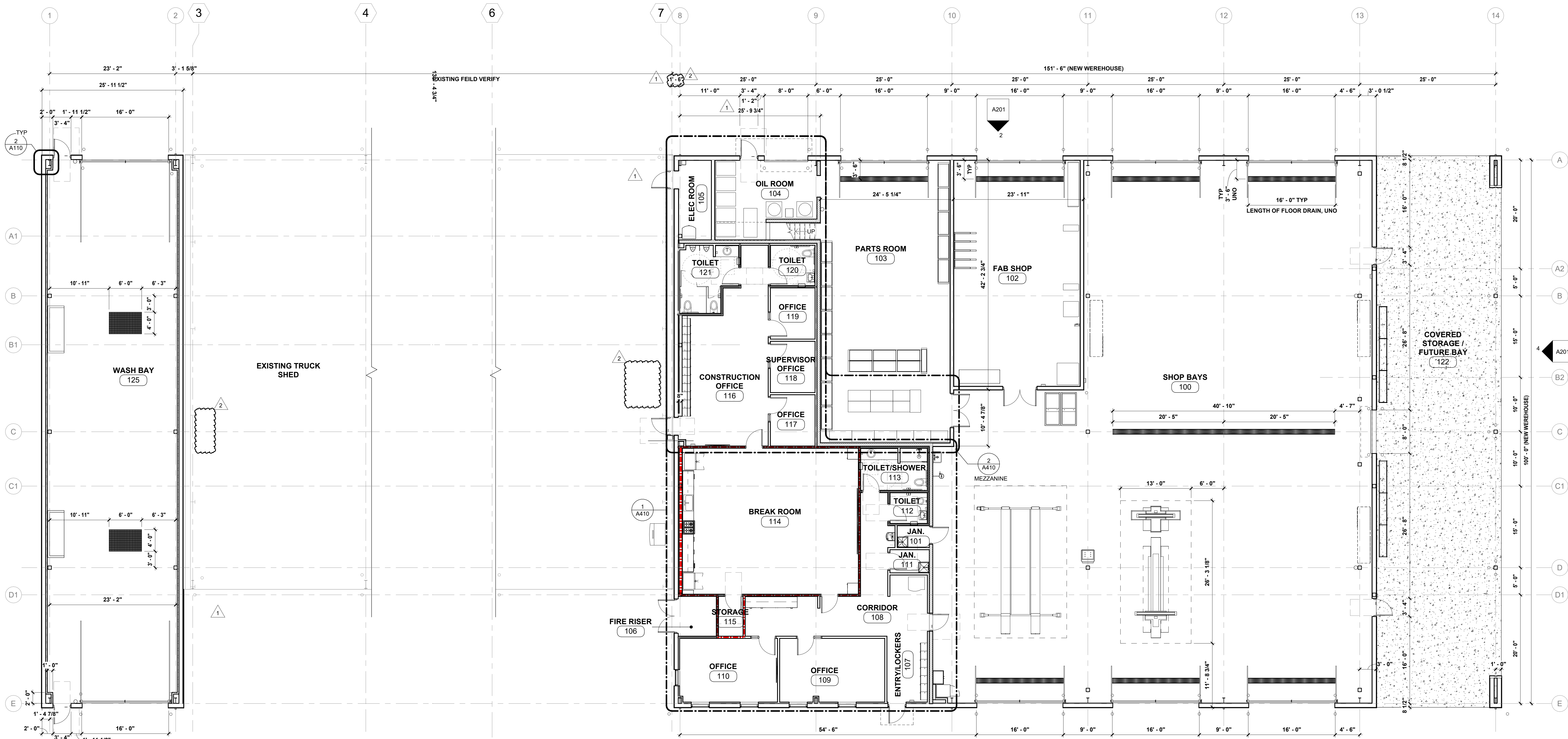




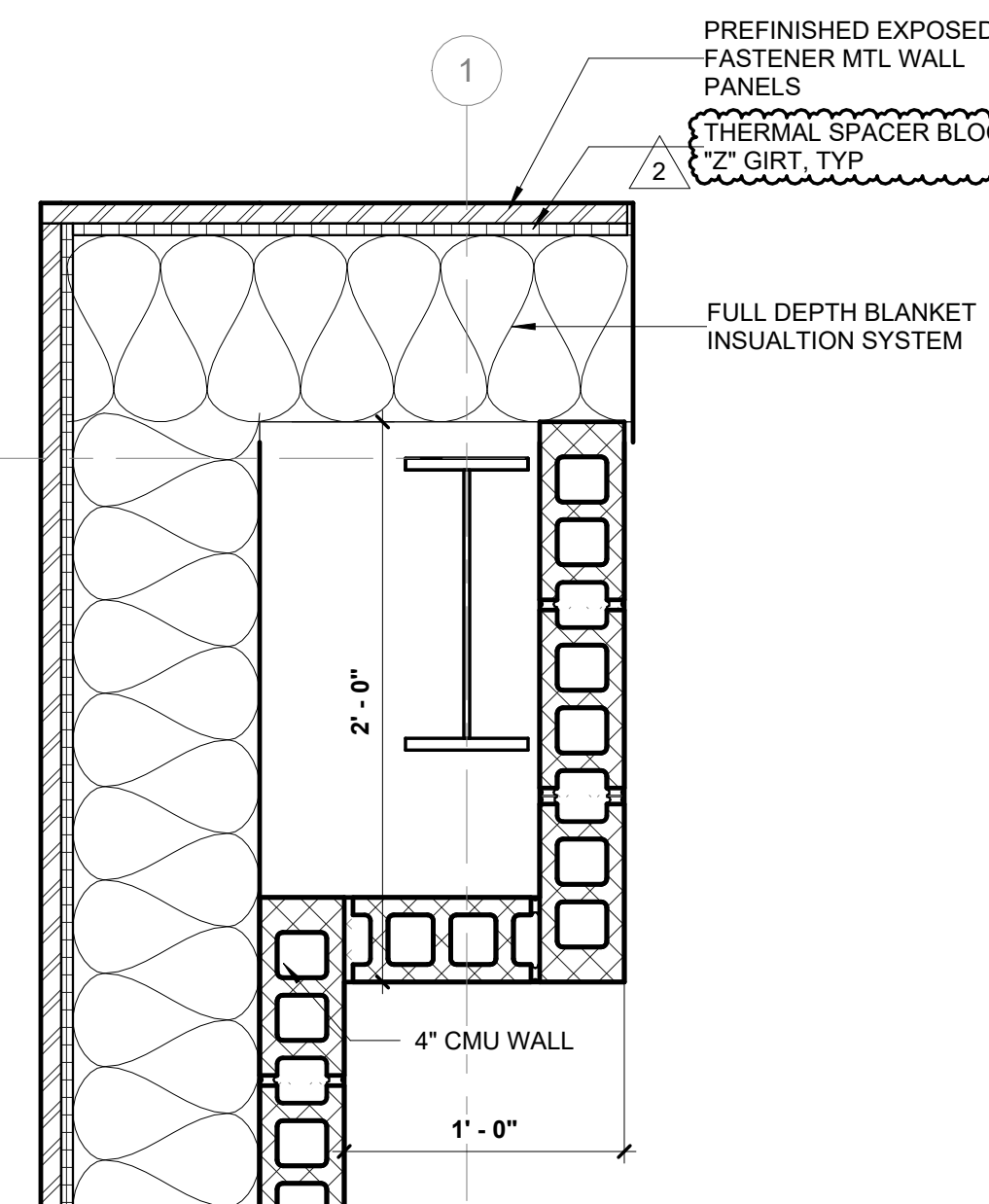
03/2025 12:52 PM  
Armeda Don't Forget Electric Maintenance Shop 14.096, Englehard Eric, Maintenance Shop 14.096



1 DIMENSIONED FLOOR PLAN  
1/8" = 1'-0"



2 CORNER DETAIL - WASH BAY  
1 1/2" = 1'-0"



- SHEET NOTES**
1. ALL DRYWALL JOINTS TO BE TAPED.
  2. ALL DRYWALL BELOW FINISHED CEILING TO BE PREPARED FOR PAINTING AS INDICATED ON INTERIOR ELEVATIONS AND FINISH SCHEDULE.
  3. CONTRACTOR TO INSTALL WATER RESISTANT GYP BD & FRP AT MOP SINK LOCATIONS. SEE ENLARGED PLANS FOR DETAILS.
  4. PORTABLE FIRE EXTINGUISHER PER NFPA-10 INSTALLED PER PLANS AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
  5. FOR FURNITURE, FIXTURE, AND EQUIPMENT INFORMATION, SEE A511.

**NOTE:**  
STRUCTURE INTENDED FOR THE BAY CRANE TO BE INSTALLED BY CRANE MANUF.

SHEET

REVISIONS

CONTENTS

PROJECT TITLE

24-096

JOB. NO.

02.14.2025

DATE

ISSUE

A110

DIMENSIONED FLOOR PLAN

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

WDD  
ARCHITECTS





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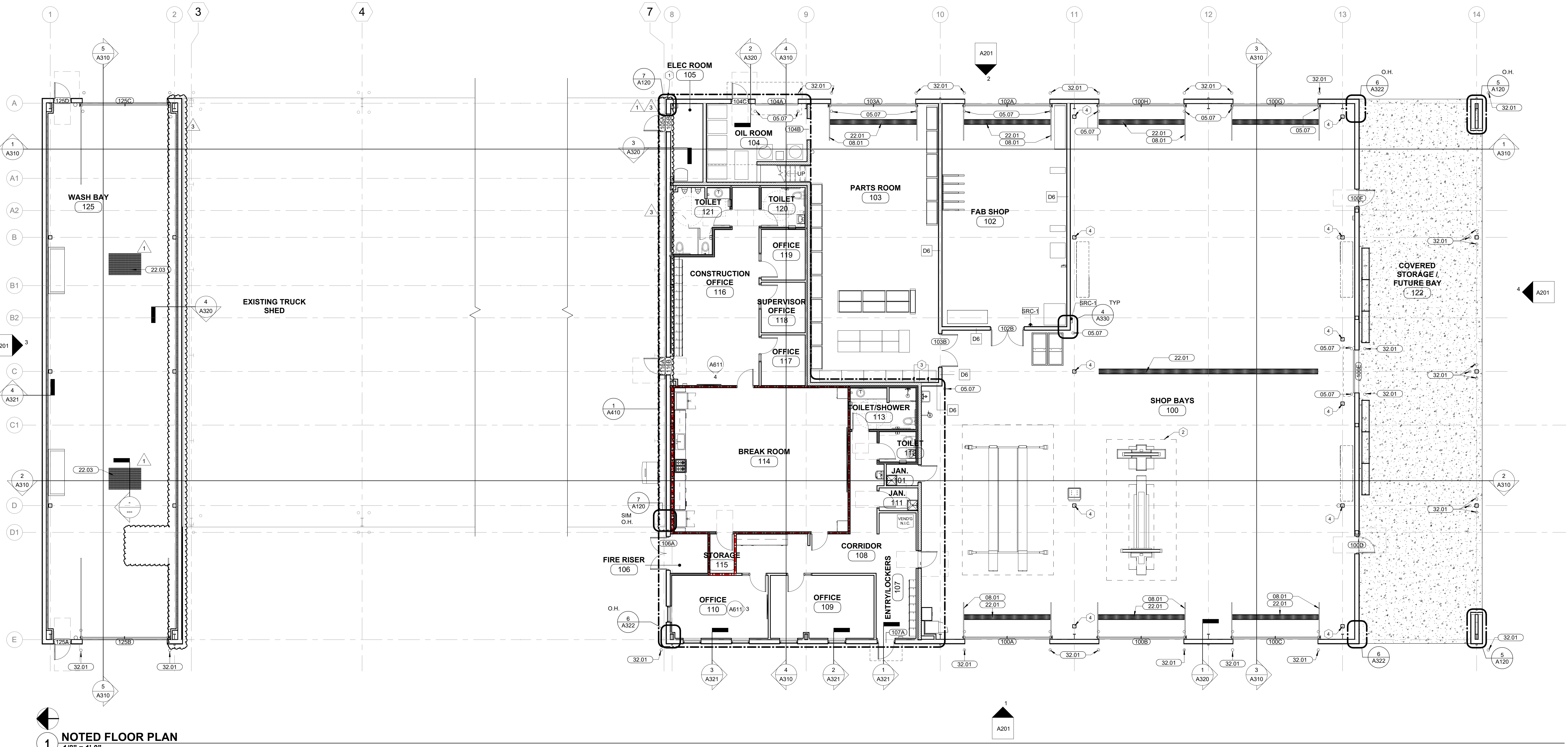
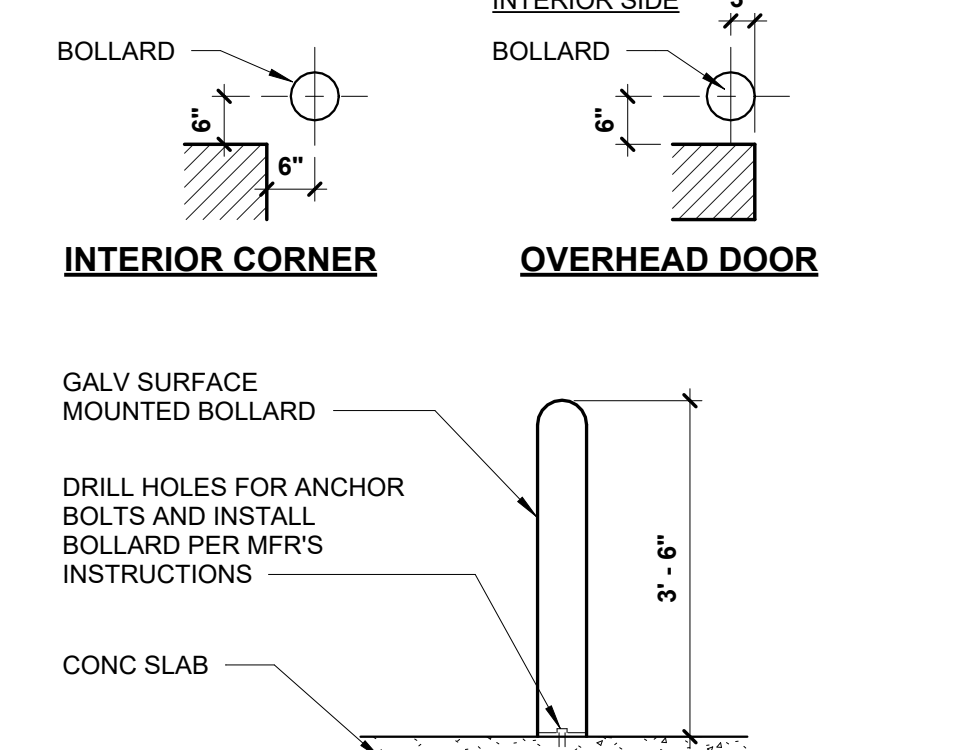
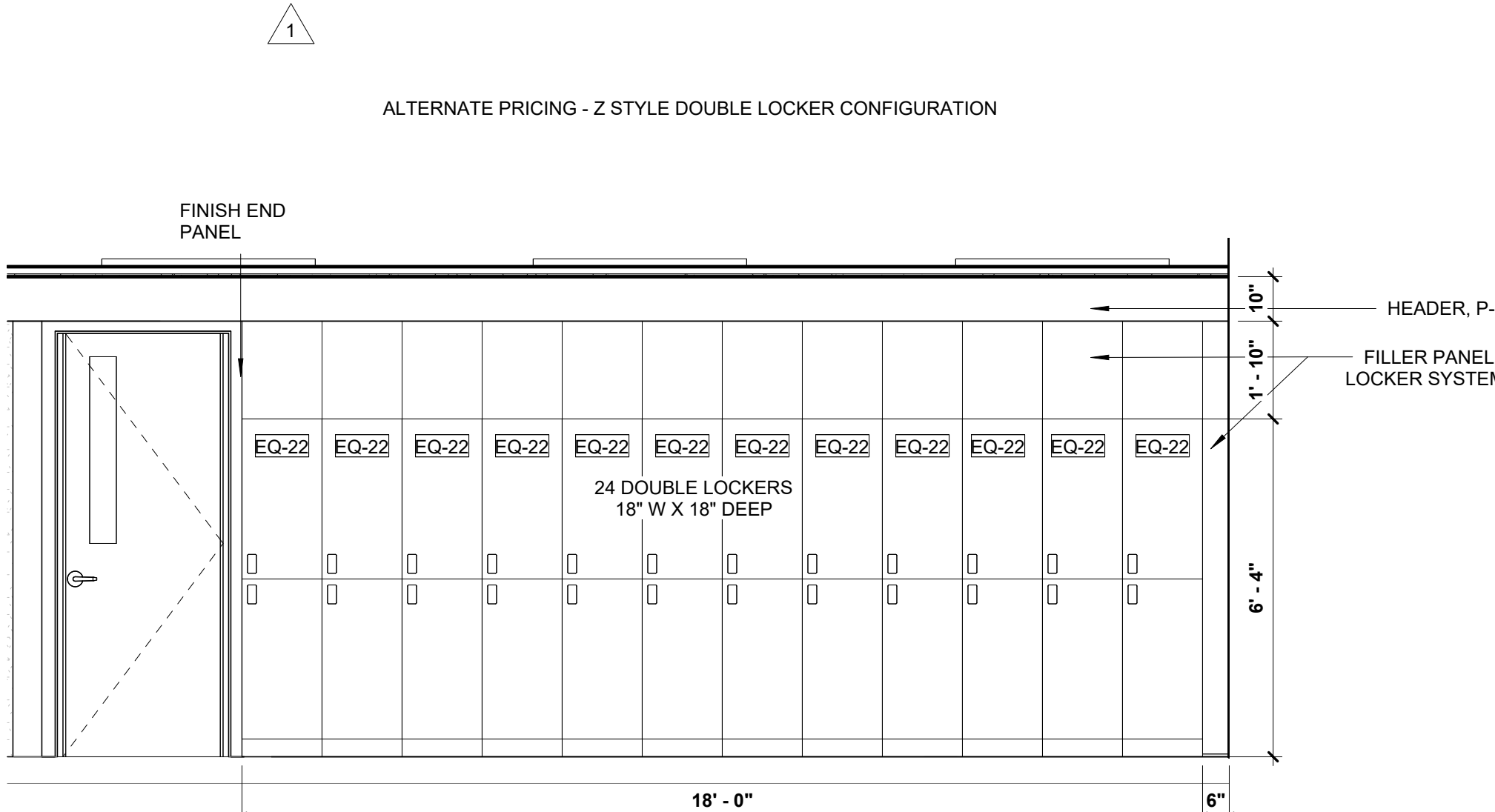
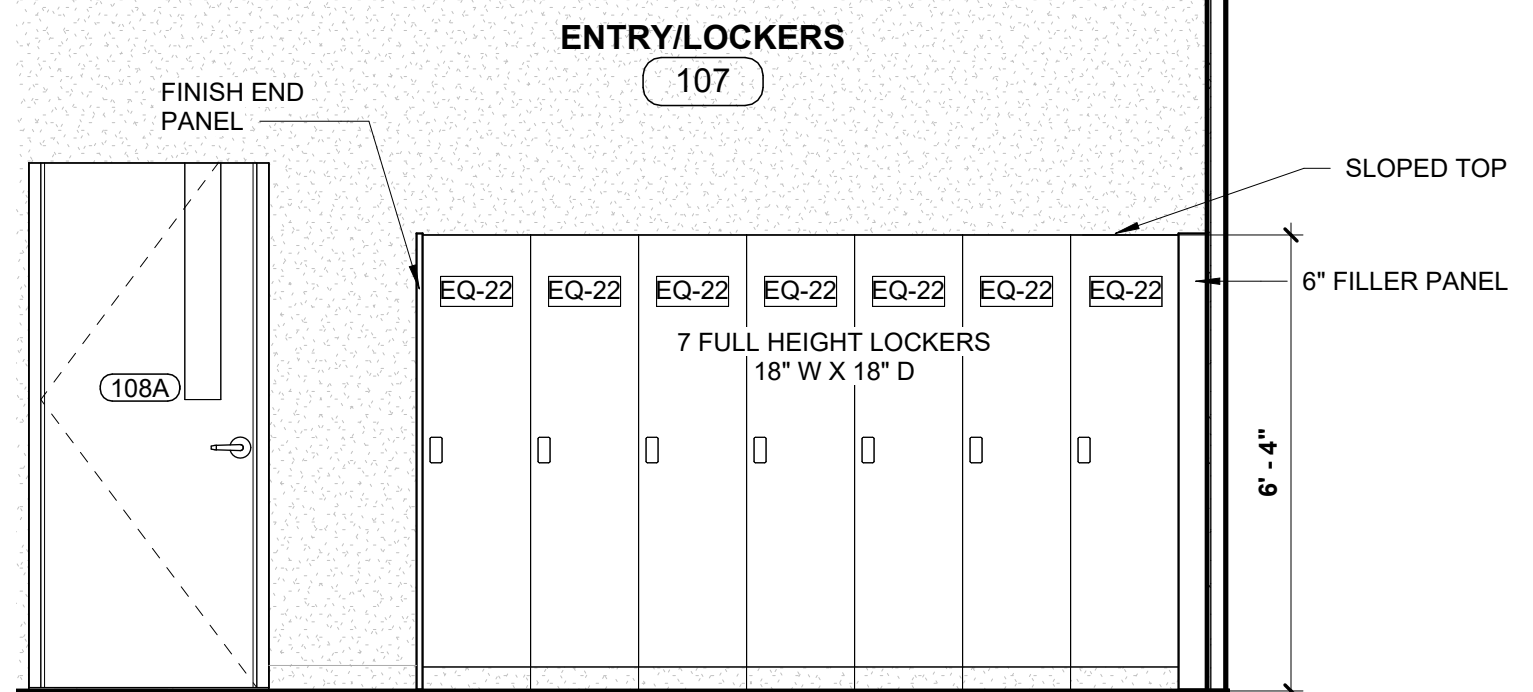
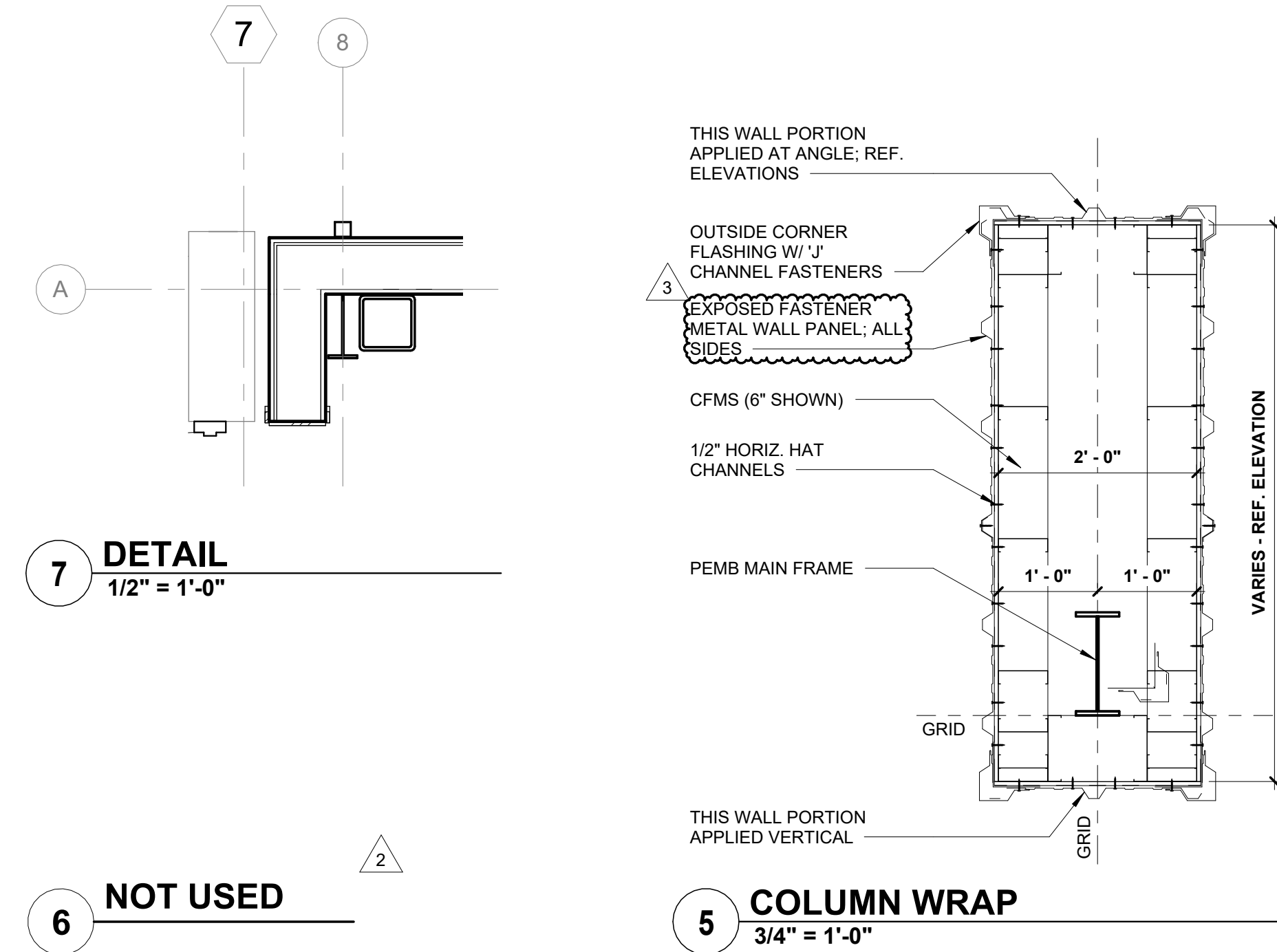
CODED NOTES - FLOOR PLAN	
NO.	NOTE
1	INSTALL MTL CLOSURE
2	GC TO PROVIDE SLAB BLOCK (PER MANUF. INSTRUCTIONS) OUT FOR INSTALLATION OF IN GROUND LIFT
3	ALIGN FINISHED FACES
4	STRUCTURE FOR KONEKANE TO BE INSTALLED BY OTHERS.

SHEET NOTES	
1.	ALL DRYWALL JOINTS TO BE TAPED.
2.	ALL DRYWALL BELOW FINISHED CEILING TO BE PREPARED FOR PAINTING AS INDICATED ON INTERIOR ELEVATIONS AND FINISH SCHEDULE.
3.	CONTRACTOR TO INSTALL WATER RESISTANT GYP BD & FRP AT MOP SINK LOCATIONS. SEE ENLARGED PLANS FOR DETAILS.
4.	PORTABLE FIRE EXTINGUISHER PER NFPA-10 INSTALLED PER PLANS AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
5.	FOR FURNITURE, FIXTURE, AND EQUIPMENT INFORMATION, REF A511.

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
05.07	6" DIA, 42" HIGH, GALVANIZED SURFACE MOUNTED BOLLARD, REF 2 / A120
08.01	SECTIONAL OVERHEAD DOOR
22.01	FLOOR DRAIN, REF PLUMB.
22.03	PIT DRAIN, REF PLUMB AND STRUC.
32.01	6" DIA, 30" HIGH CONCRETE FILLED GALVANIZED STEEL, REF 3 / A101



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS



**1** **NOTED FLOOR PLAN**  
1/8" = 1'-0"



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KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
07.02	PREFINISHED GUTTER
07.03	TRAPEZOIDAL STANDING SEAM MTL ROOF SYSTEM
07.04	RAKE TRIM
07.08	SNOW GUARD, INSTALL PER MFR INSTRUCTIONS
07.09	PREFINISHED RIDGE CAP, REF 3 / A150
13.01	PRE-ENGINEERED PREFINISHED METAL CANOPY



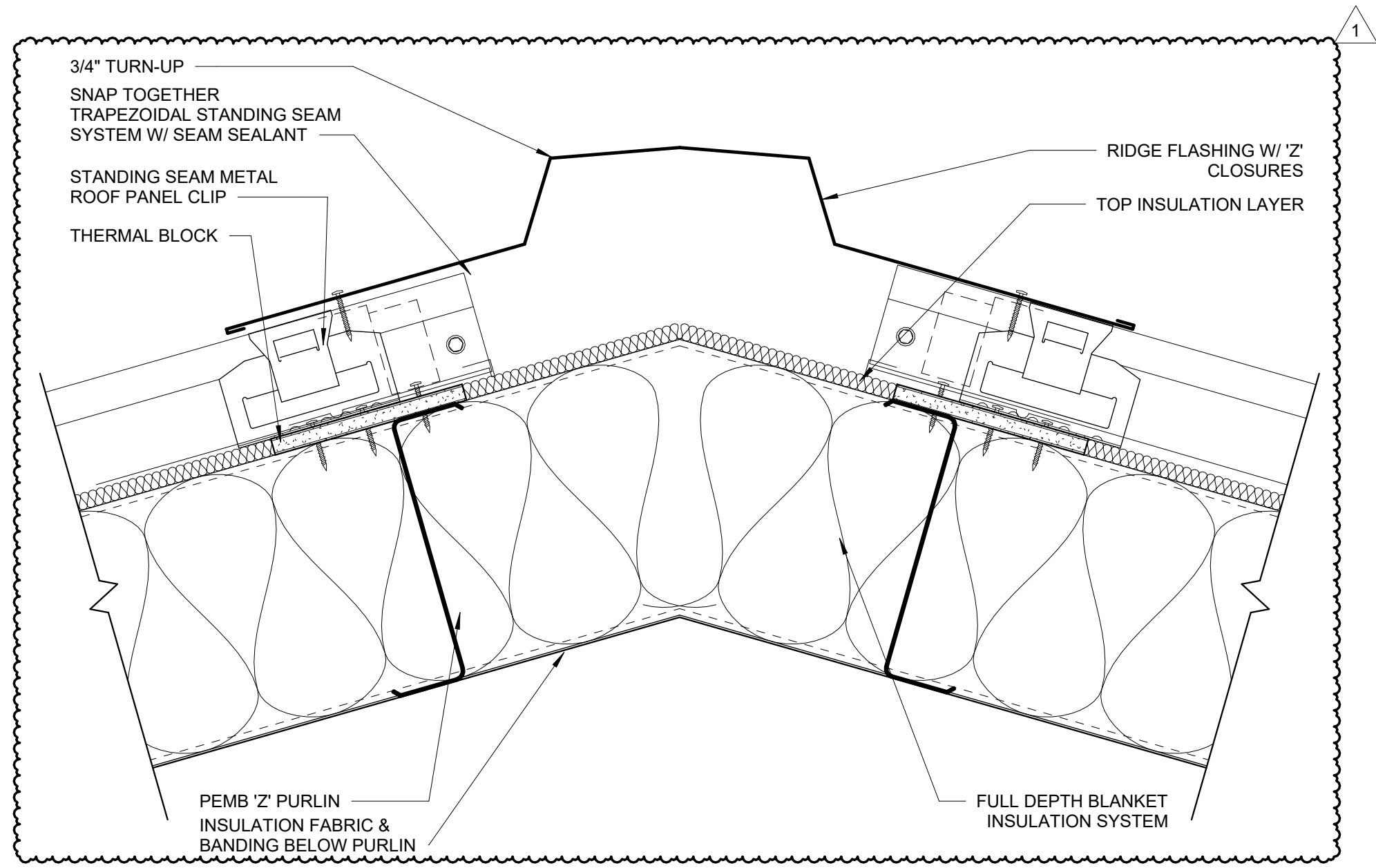
CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

ROOF PLAN

NO.	DATE	DESCRIPTION
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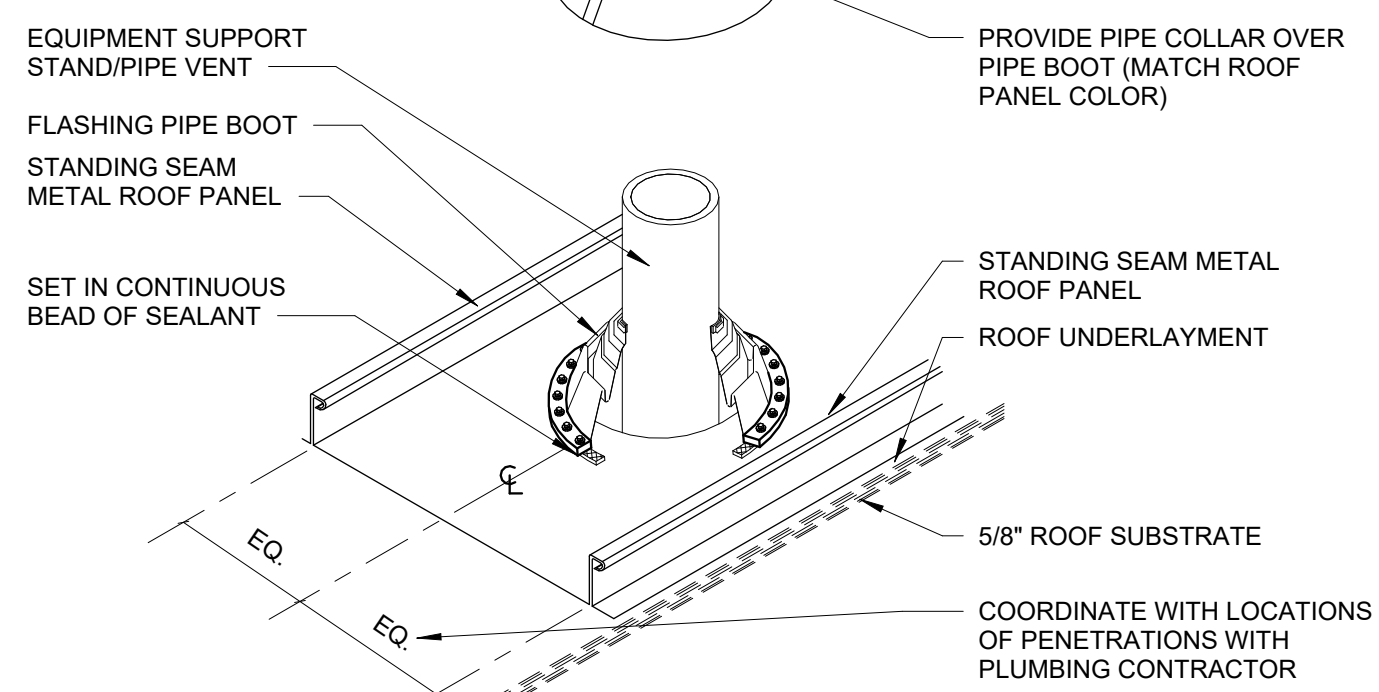
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JOB. NO.  
02.14.2025  
DATE

ISSUE  
A150

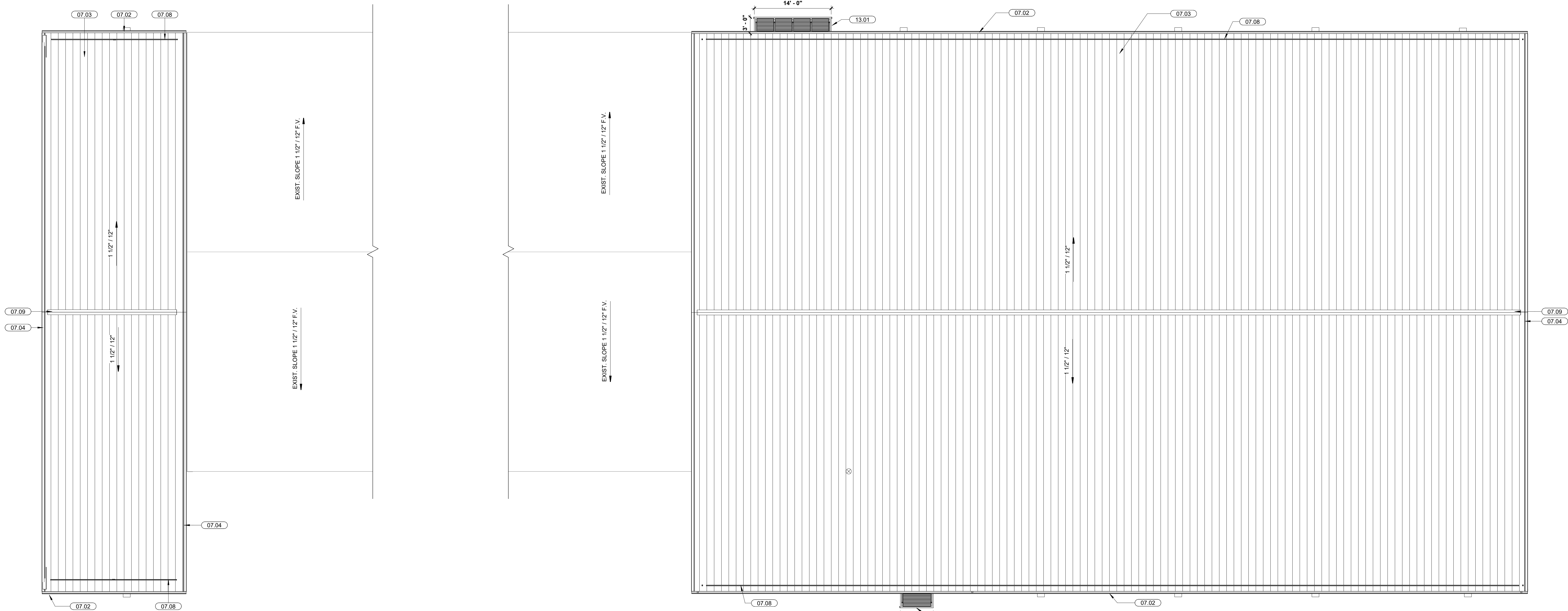


3 TYPICAL EXTERIOR ROOF ASSEMBLY - RIDGE DETAIL  
3" = 1'-0"

- NOTES:
- PIPE PENETRATION TO BE IN PAN OF PANEL ONLY
  - PAINT PVC PIPES TO MATCH COLOR OF ROOF PANEL



2 ROOF PENETRATION DETAIL  
1 1/2" = 1'-0"



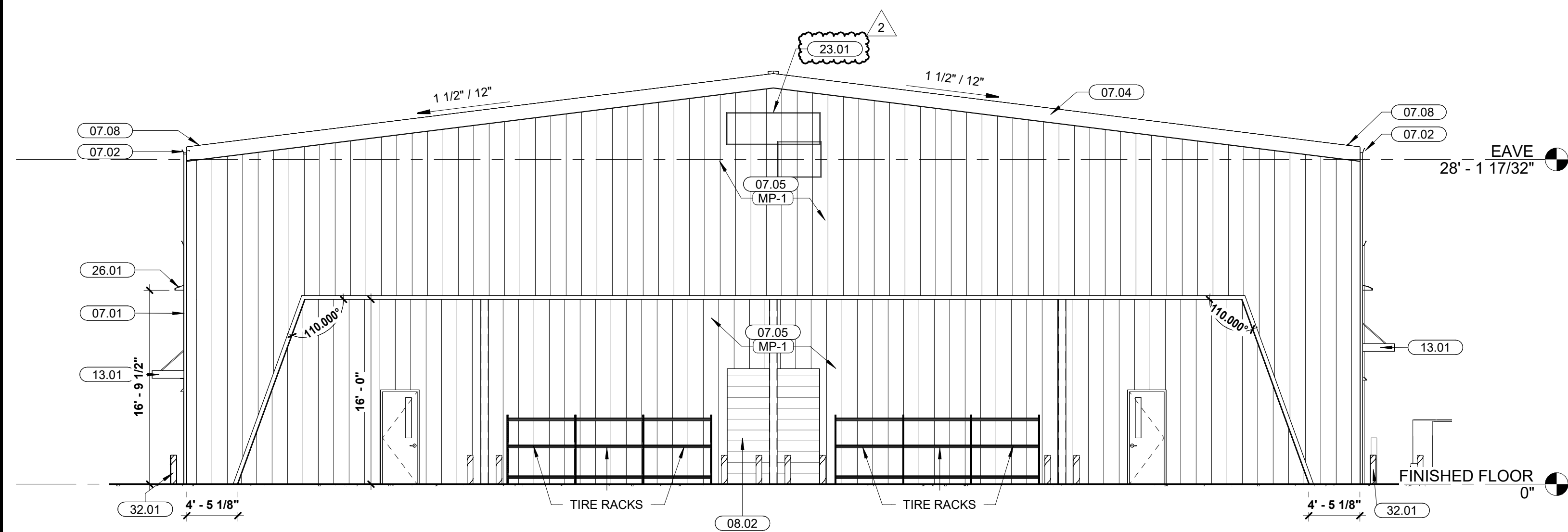
1 ROOF PLAN  
1/8" = 1'-0"



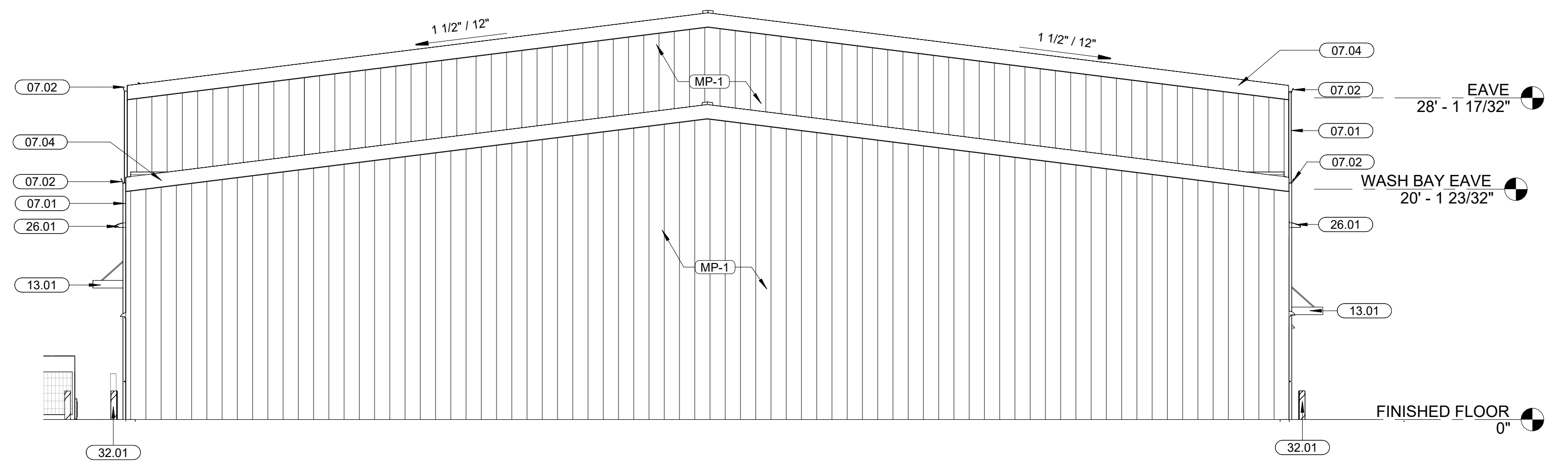
03/2025 2:33 PM Autodesk Docs (Copyright) Electric Maintenance Shop 14.006, Englehard Eric, Maintenance Shop.rvt

COLOR LEGEND	
TAG	COLOR
MP-1	PREFINISHED CONCEALED FASTENER MTL WALL PANELS

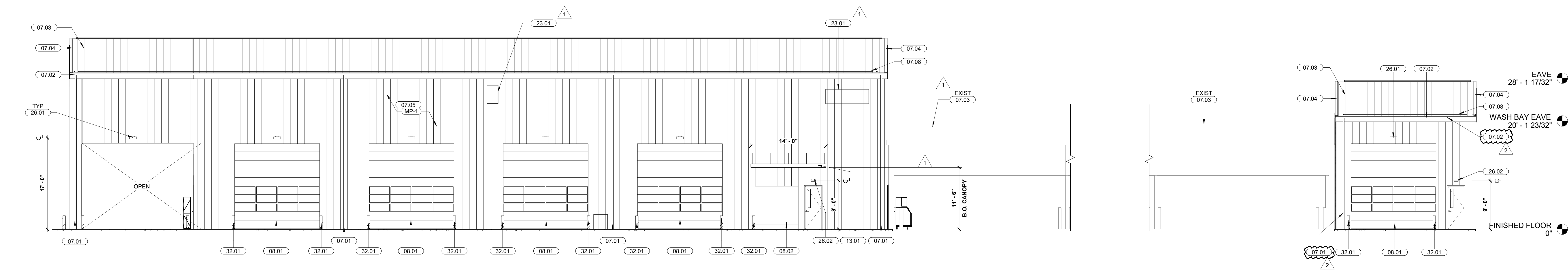
KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
07.01	PREFINISHED DOWNSPOUT
07.02	PREFINISHED GUTTER
07.03	TRAPAZOIDAL STANDING SEAM MTL ROOF SYSTEM
07.04	RAKE TRIM
07.05	PREFINISHED CONCEALED FASTENER MTL WALL PANELS
07.08	SNOW GUARD, INSTALL PER MFR INSTRUCTIONS
08.01	SECTIONAL OVERHEAD DOOR
08.02	OVERHEAD COILING DOOR
13.01	PRE-ENGINEERED PREFINISHED METAL CANOPY MECHANICAL LOUVER, REF MECH
26.01	SURFACE MOUNTED EXTERIOR LIGHTING, CENTERED ABOVE BAY DOOR, REF ELEC
26.02	SURFACE MOUNTED EXTERIOR LIGHTING, CENTERED ABOVE MAN DOOR UNO, LOCATE PER ELEVATIONS, REF ELEC
32.01	6" DIA, 30" HIGH CONCRETE FILLED GALVANIZED STEEL, REF 9 / A101



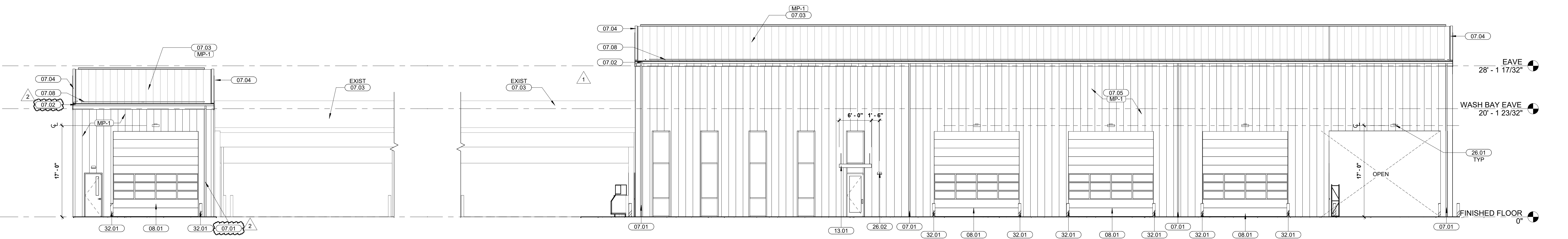
4 SOUTH ELEVATION  
1/8" = 1'-0"



3 NORTH ELEVATION  
1/8" = 1'-0"



2 EAST ELEVATION  
1/8" = 1'-0"



1 WEST ELEVATION  
1/8" = 1'-0"



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

CONTENTS

REVISIONS

SHEET

NO.	DATE	DESCRIPTION
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2	04/03/25	POST BID ADD #1

24-096

JOB. NO.

02.14.2025

DATE

ISSUE

A201



NO.	DATE	DESCRIPTION
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2	04/03/25	POST BID ADD #1

24-096

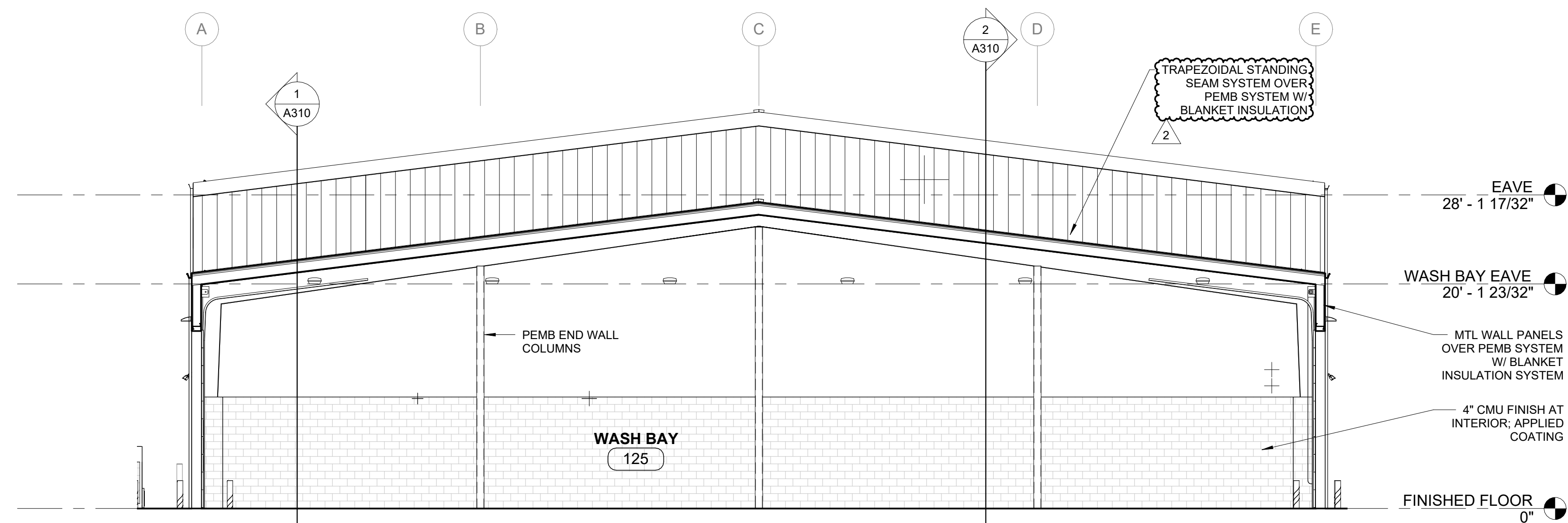
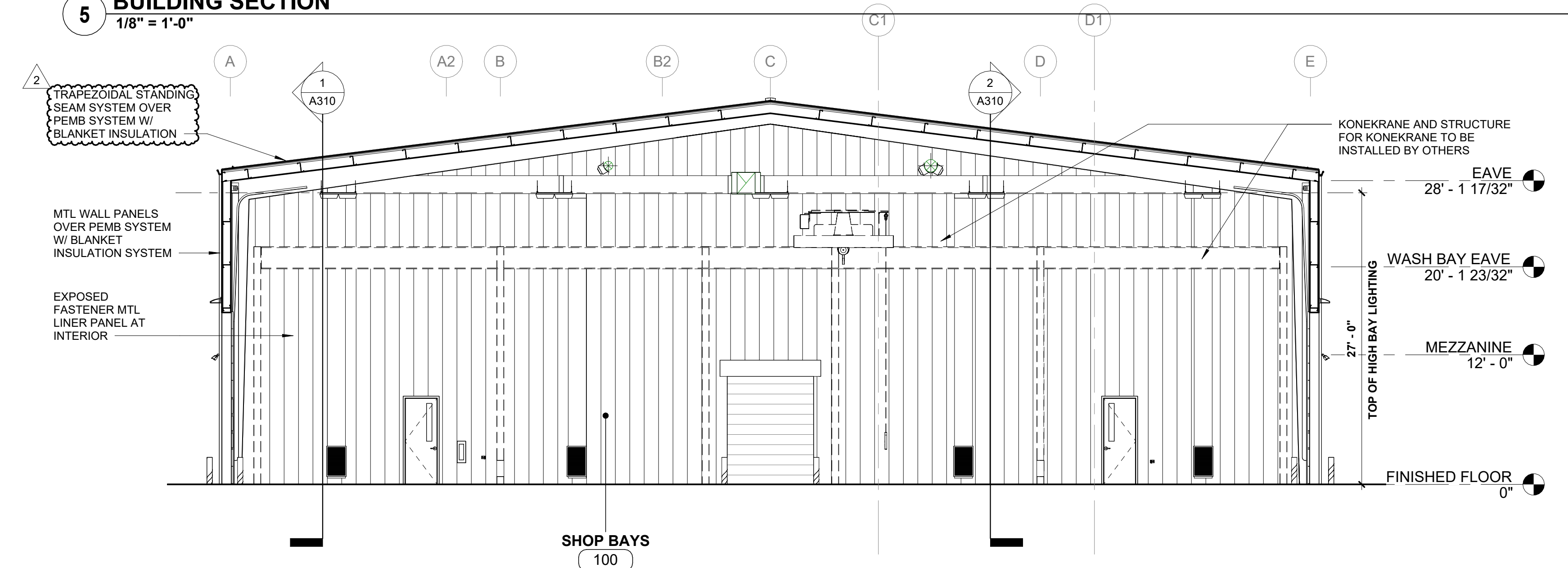
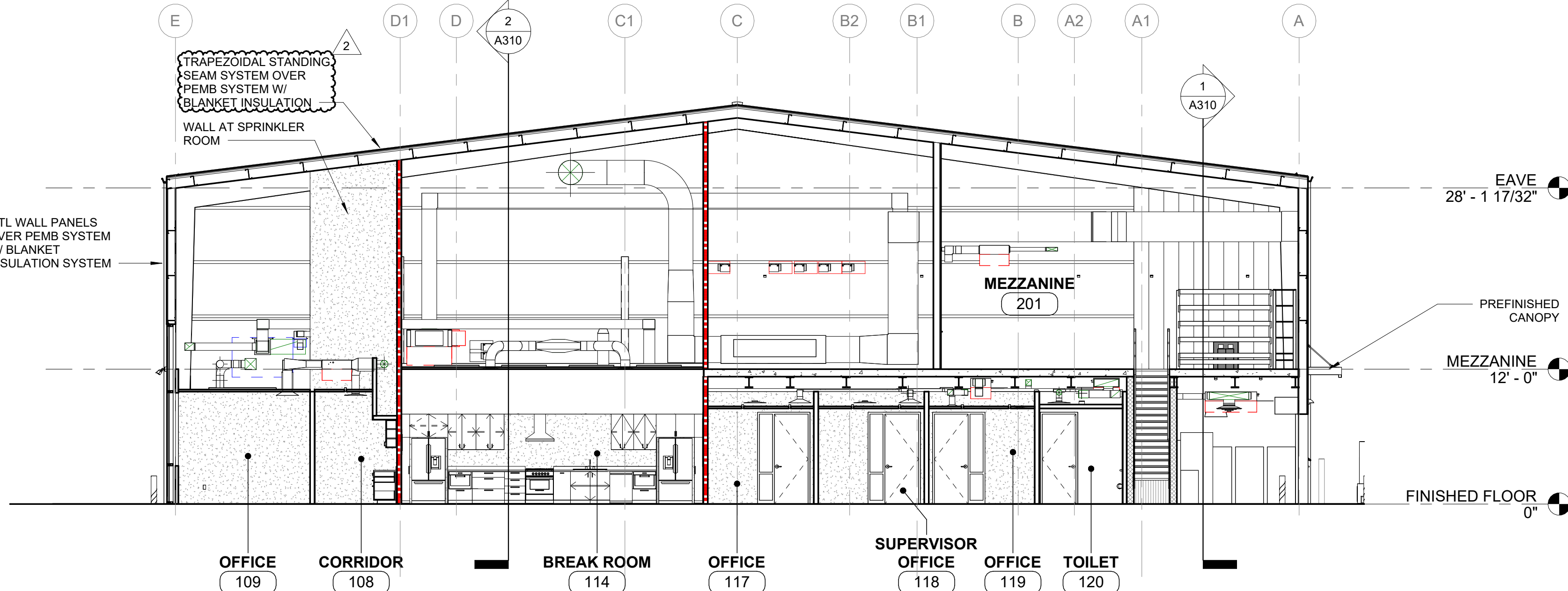
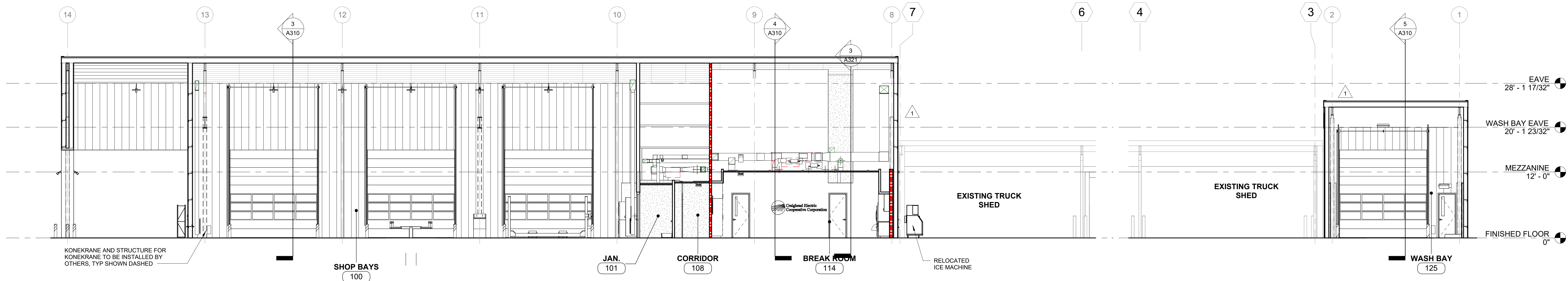
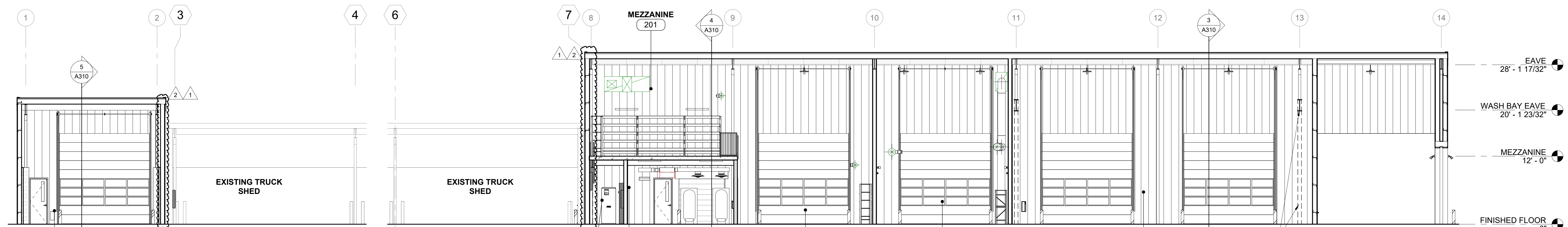
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02.14.2025

DATE

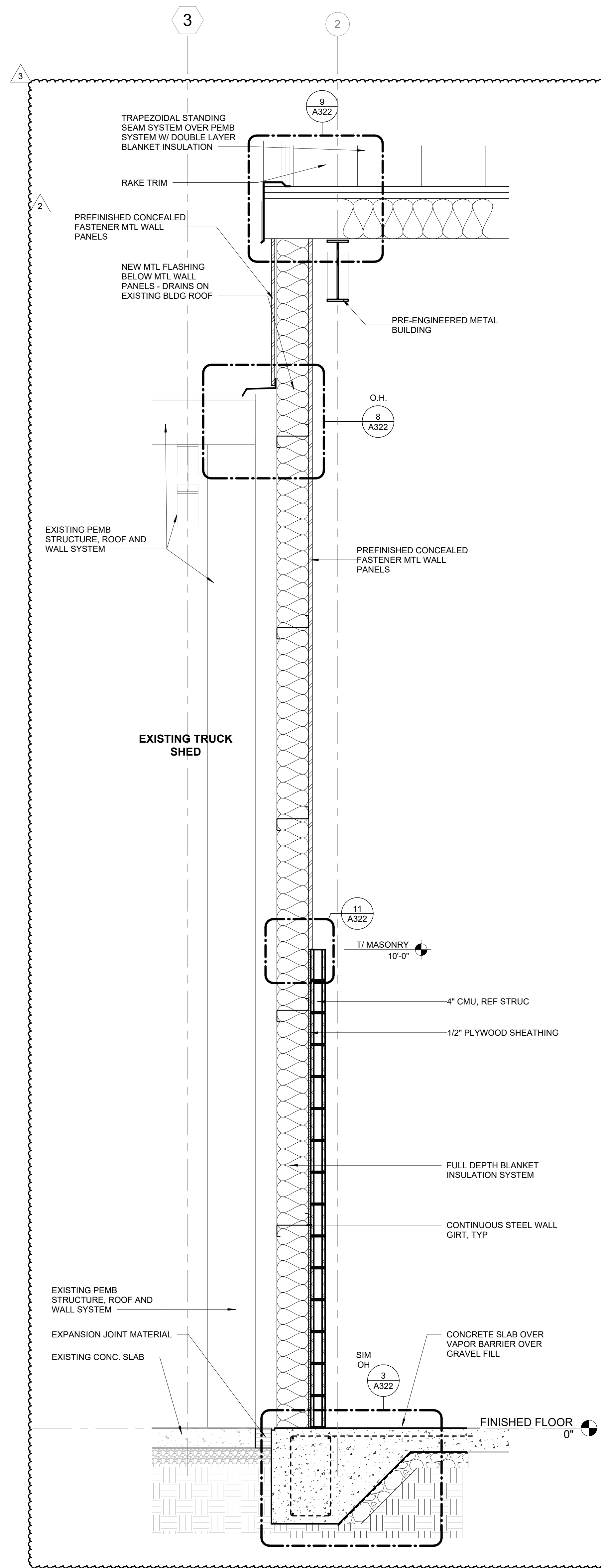
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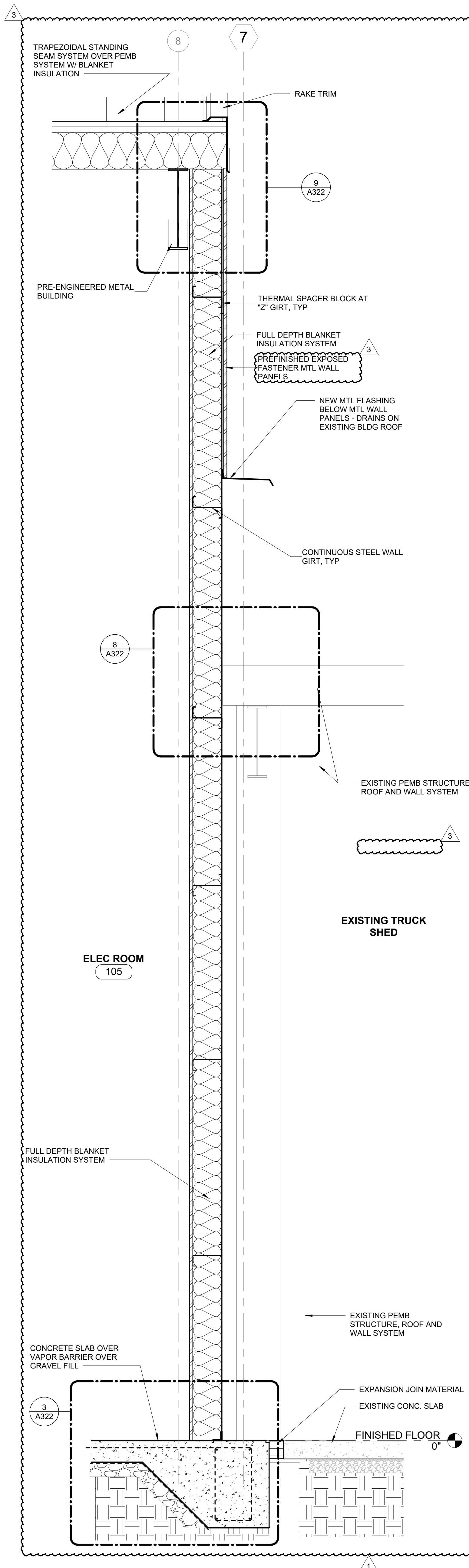
5 BUILDING SECTION  
1/8" = 1'-0"3 BUILDING SECTION  
1/8" = 1'-0"4 BUILDING SECTION  
1/8" = 1'-0"2 BUILDING SECTION  
1/8" = 1'-0"1 BUILDING SECTION  
1/8" = 1'-0"



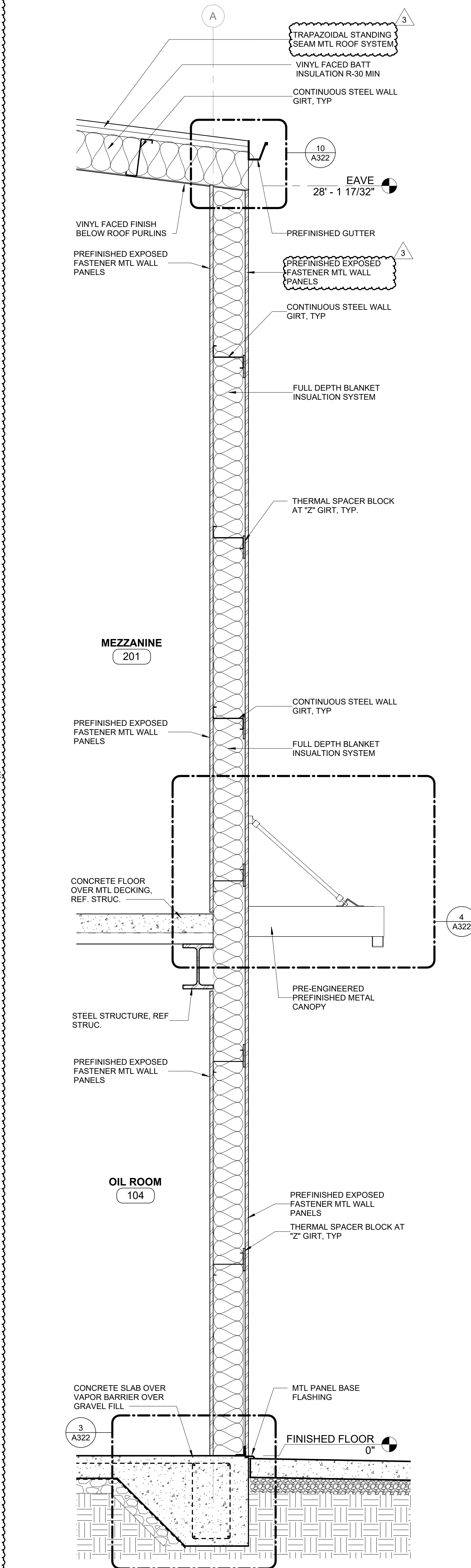
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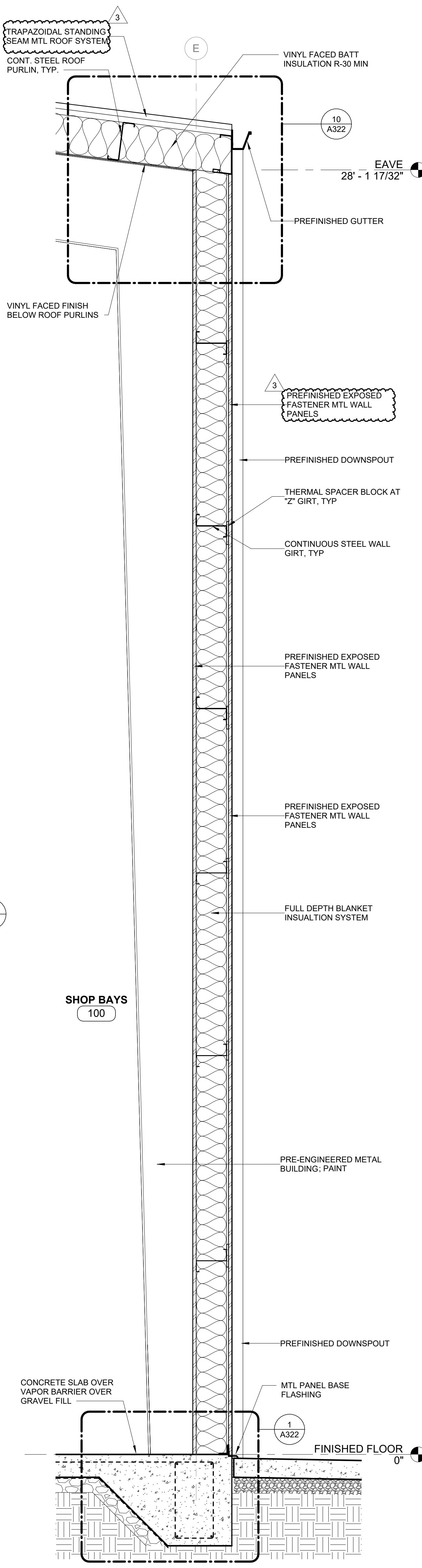
4 WALL SECTION  
3/4" = 1'-0"



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



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



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

SHEET CONTENTS

PROJECT TITLE

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

WDD  
ARCHITECTS

REGISTERED ARCHITECTS  
WITTERBERG  
DELONY  
DAVIDSON, INC.  
ARKANSAS

REVISIONS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096  
JOB. NO.  
02.14.2025  
DATE

ISSUE  
A320



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3	04/03/25	POST BID ADD #1

24-096

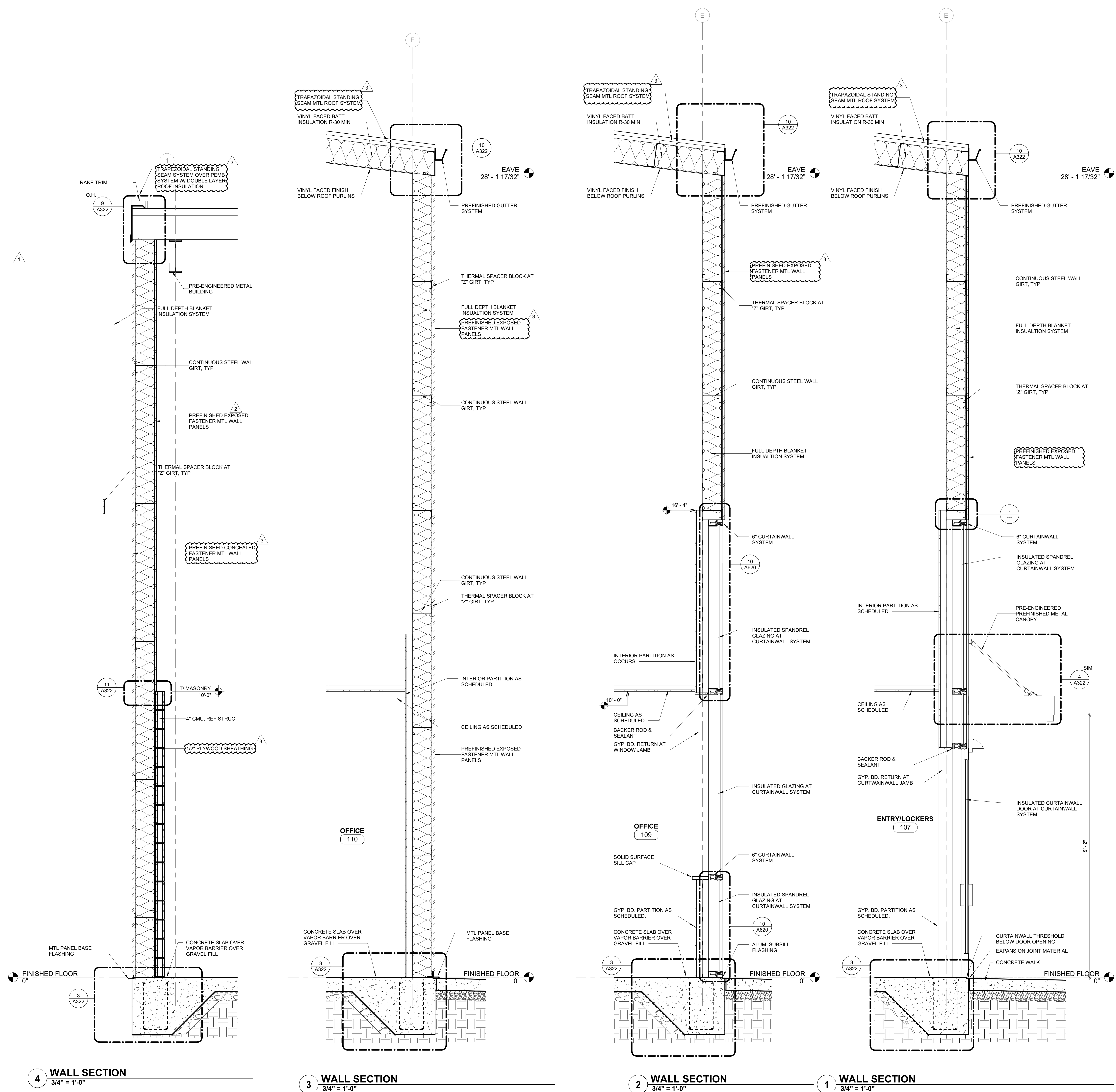
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02.14.2025

DATE

ISSUE

A321





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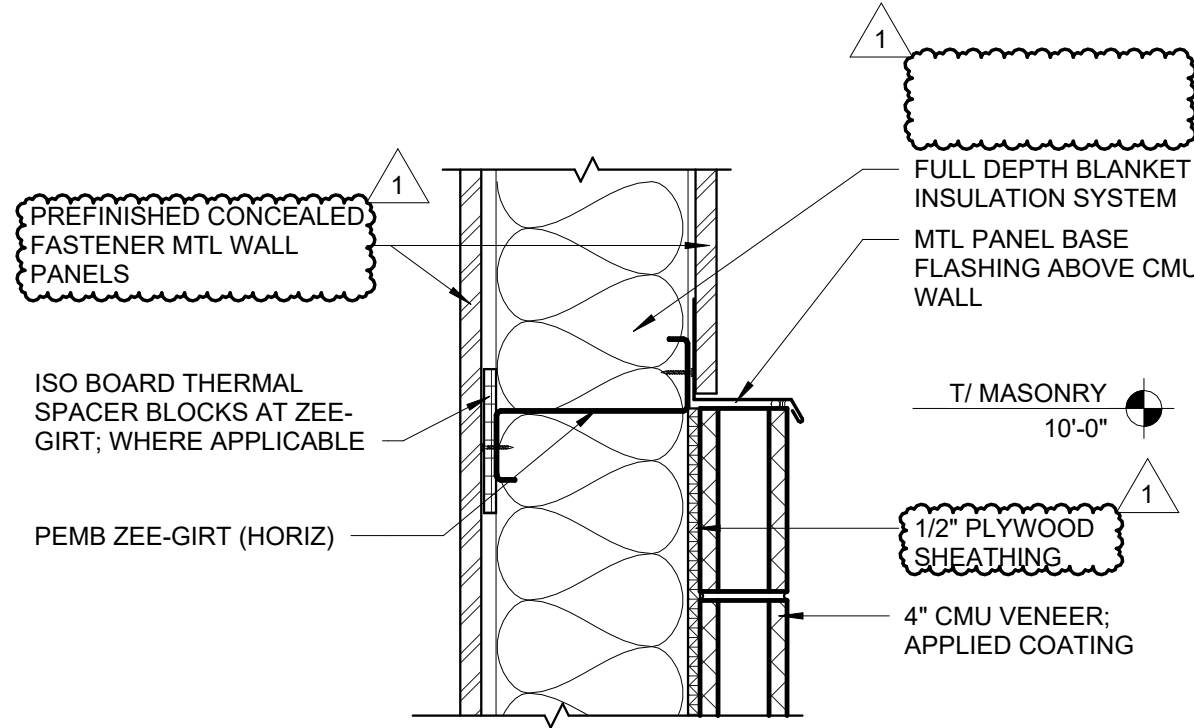
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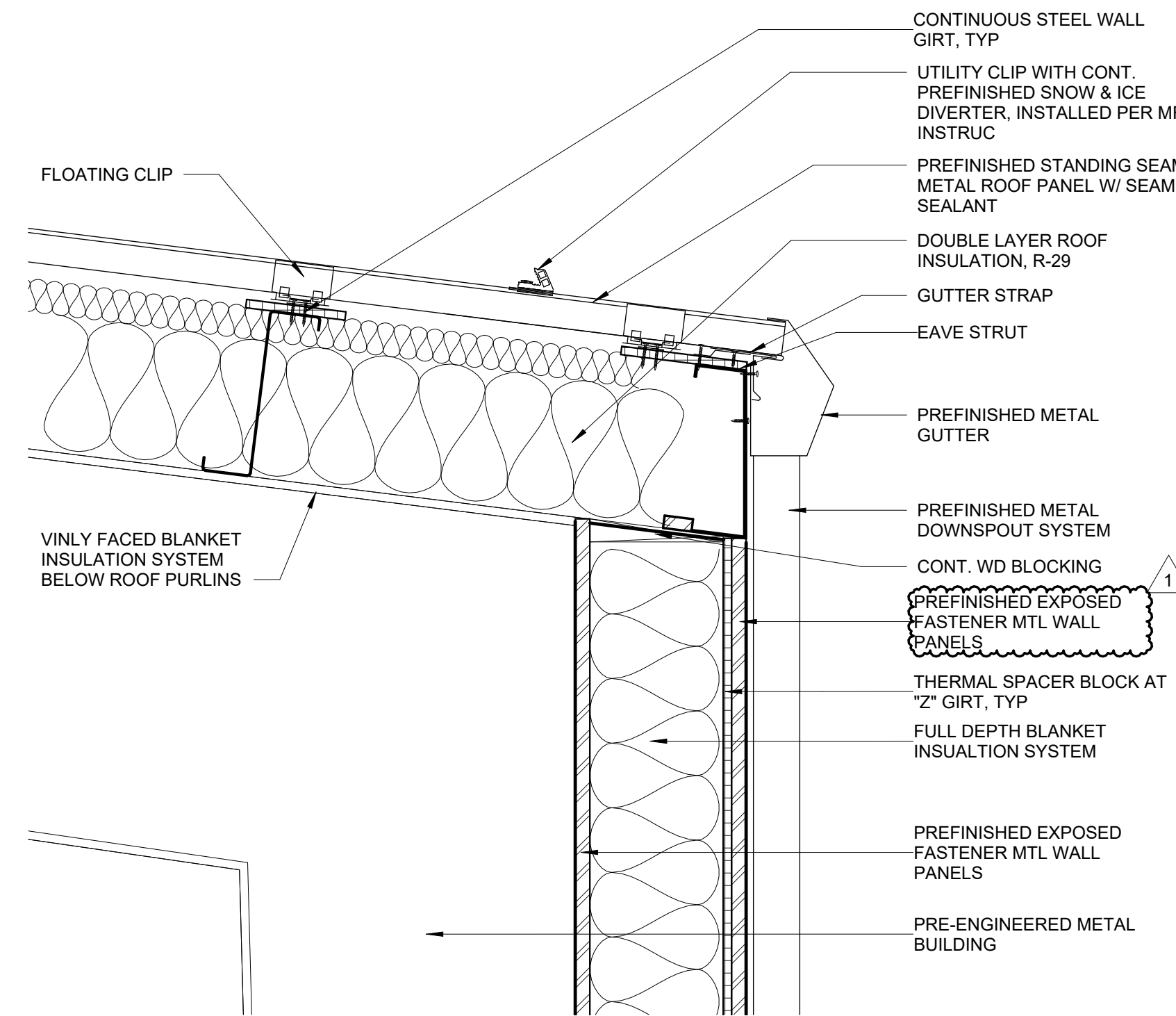
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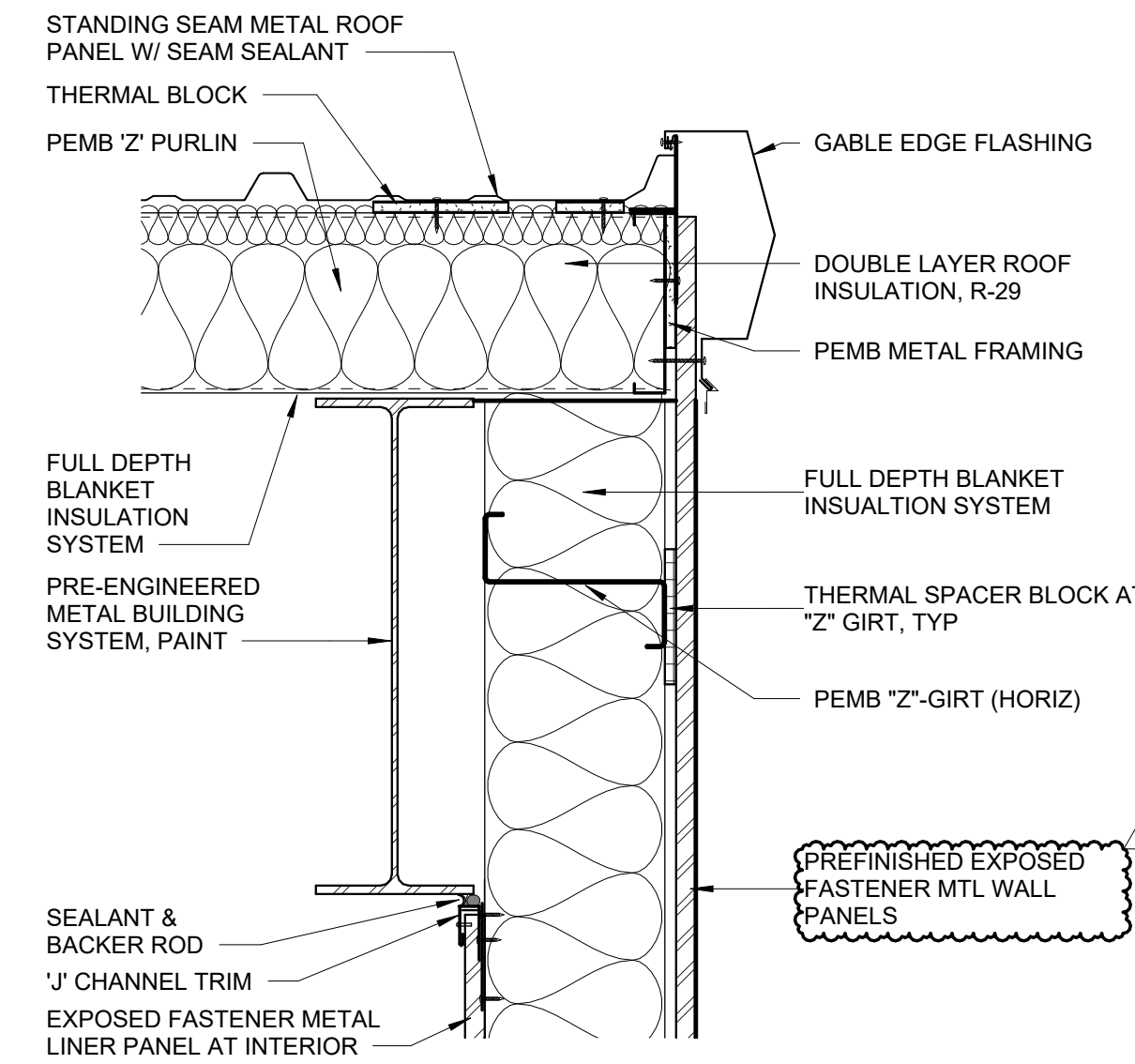
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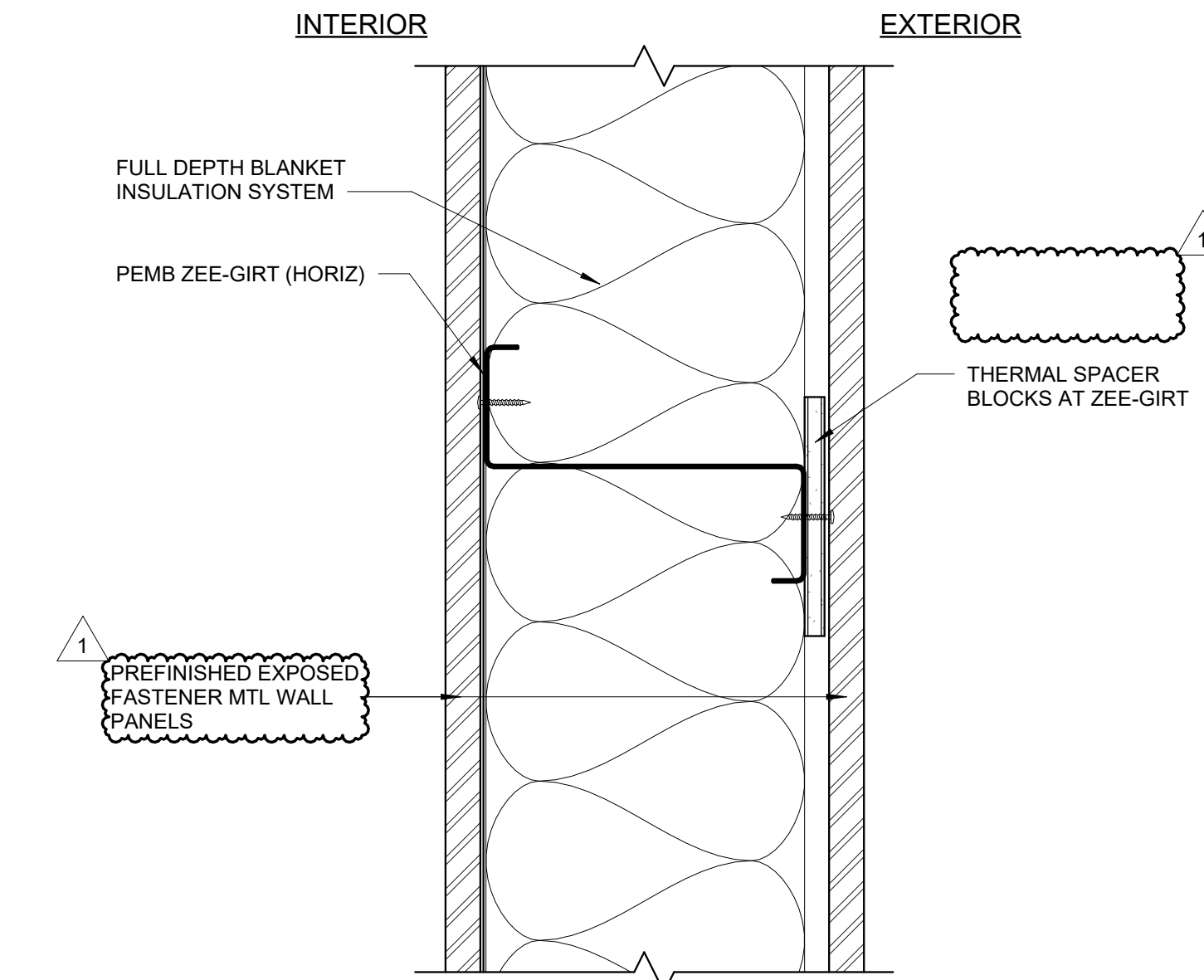
**11 CMU TO METAL PANEL TRANSITION**  
1 1/2" = 1'-0"



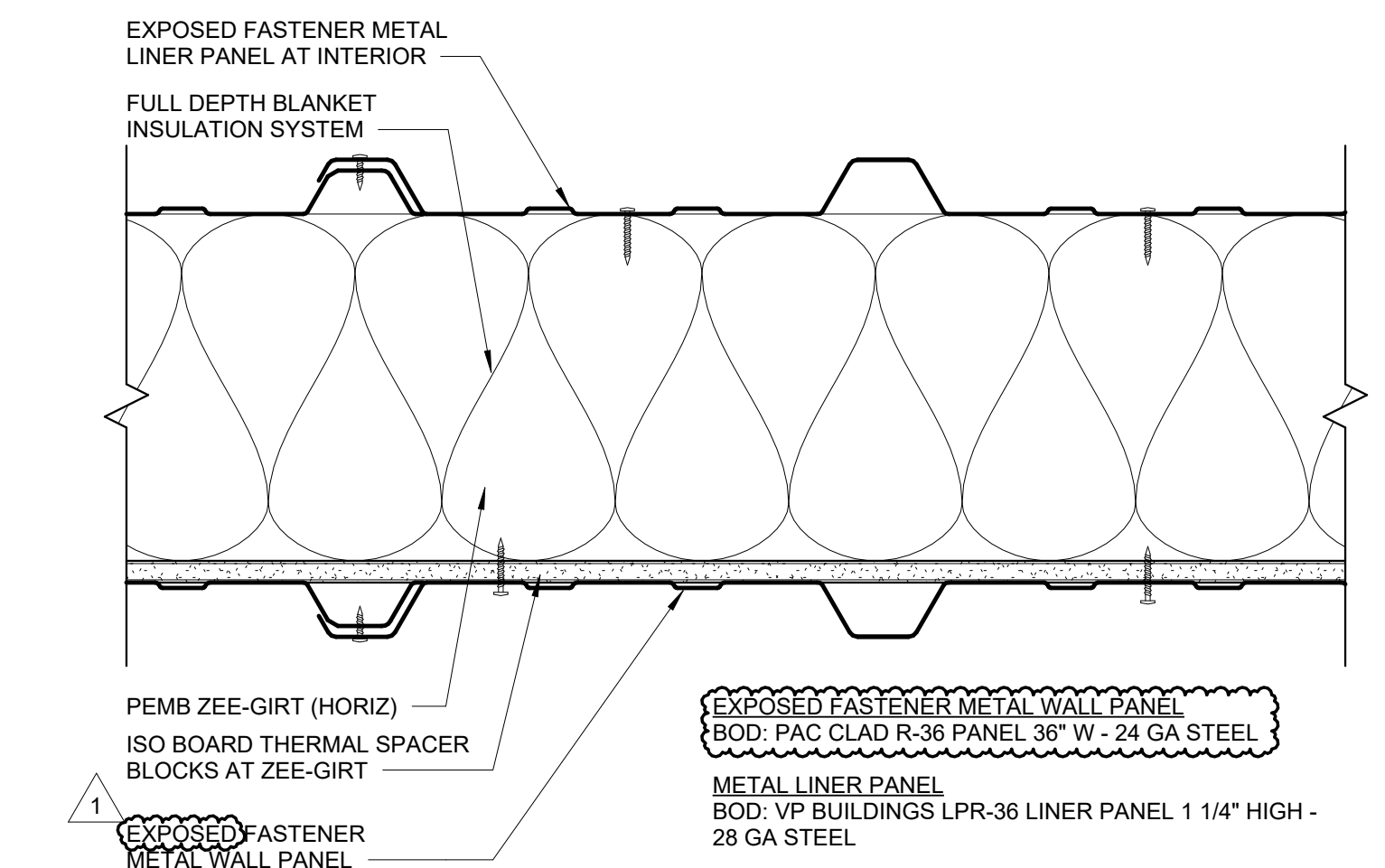
**10 EAVE / GUTTER DETAIL**  
1 1/2" = 1'-0"



**9 END WALL DETAIL**  
1 1/2" = 1'-0"

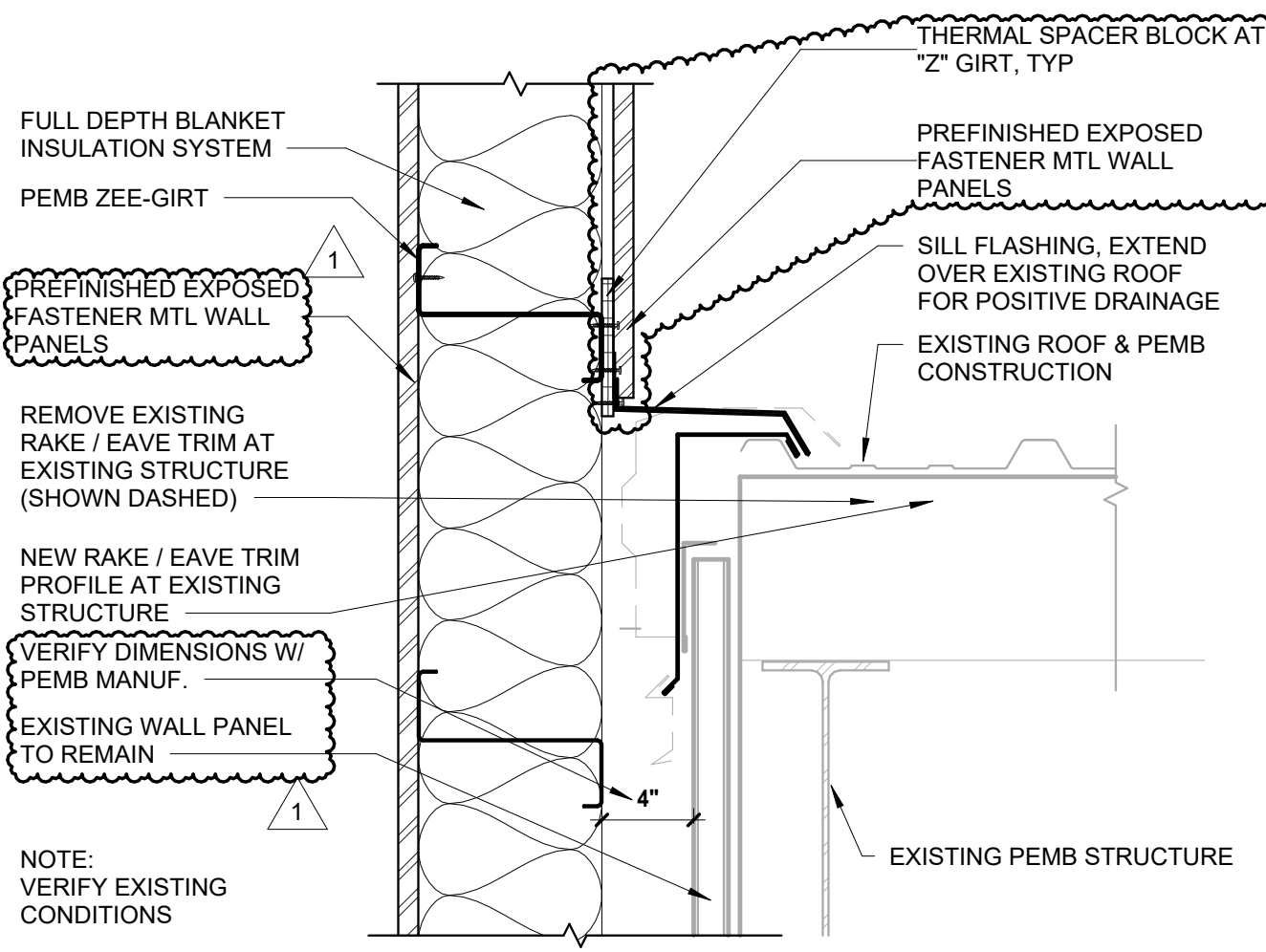


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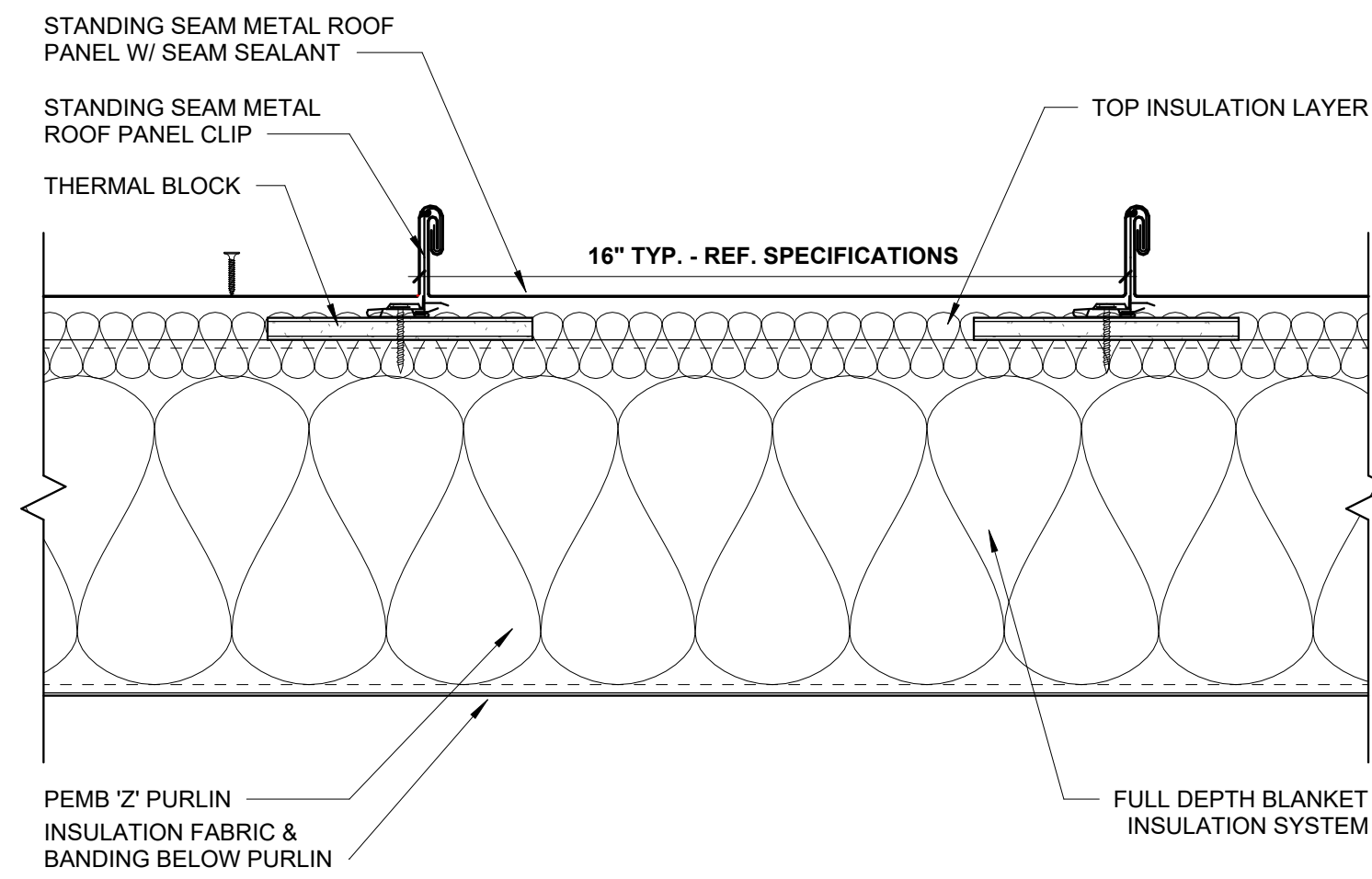


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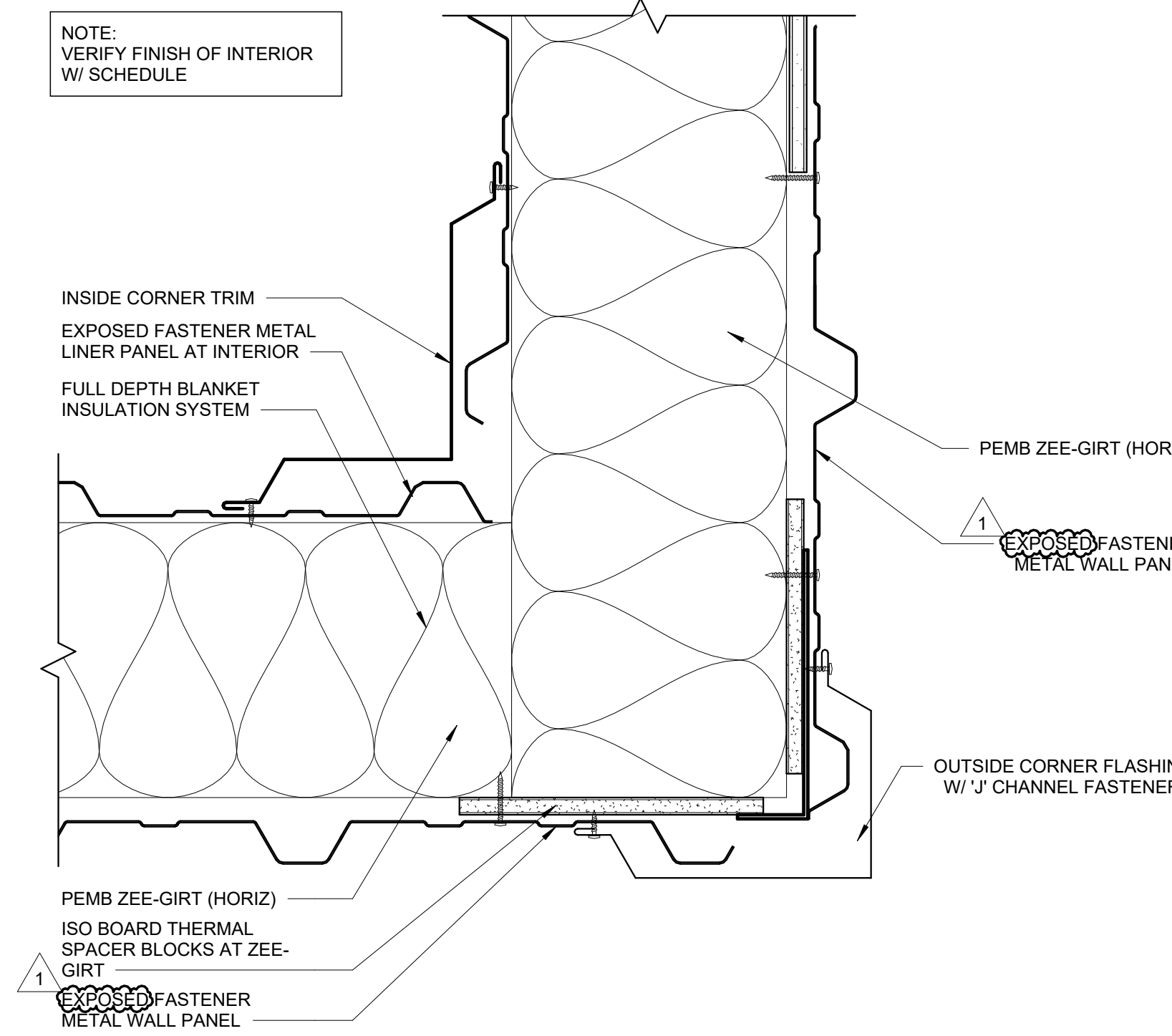
**5 TYPICAL EXTERIOR WALL ASSEMBLY**  
3" = 1'-0"



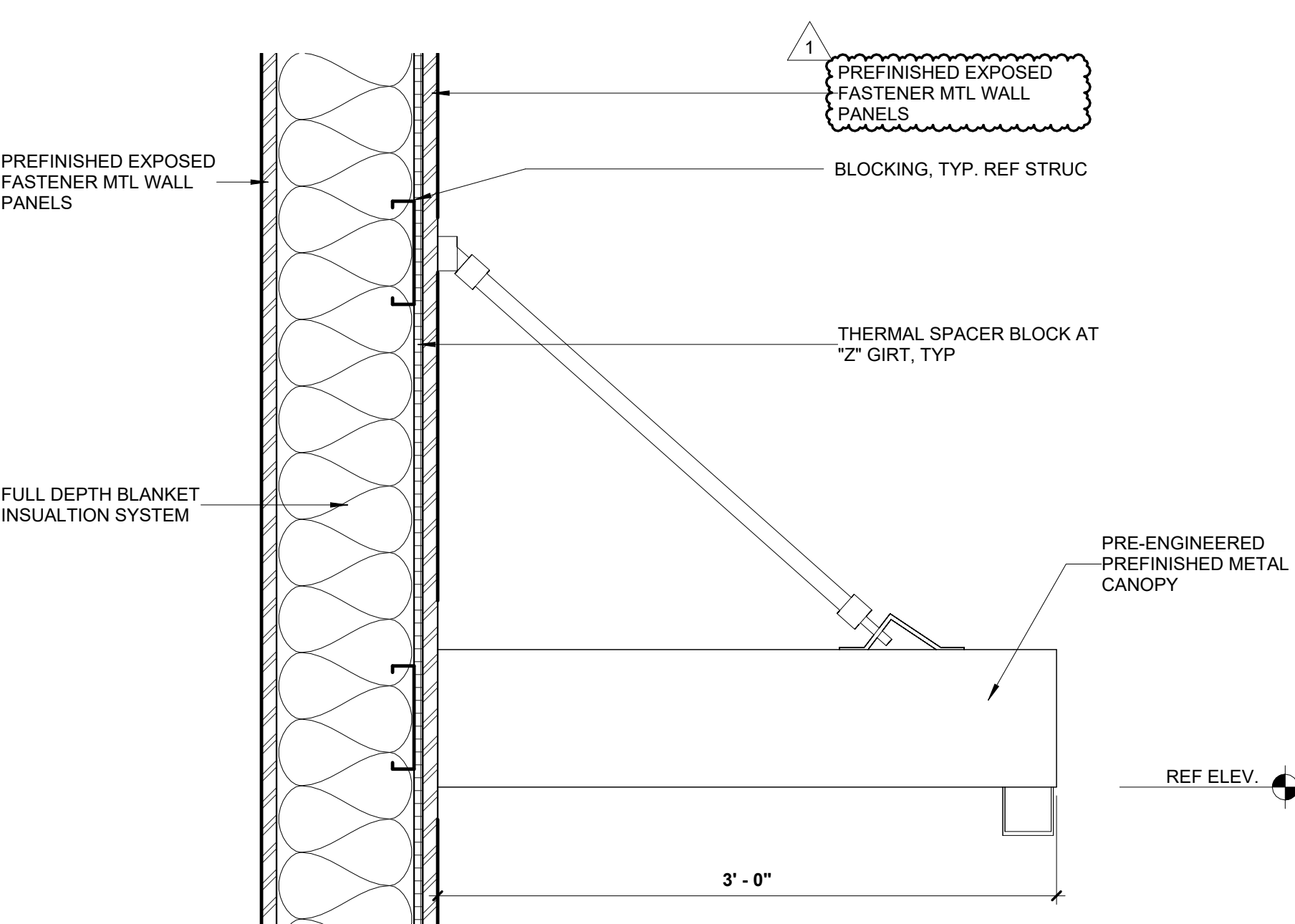
**8 CONNECTION DETAIL**  
1 1/2" = 1'-0"



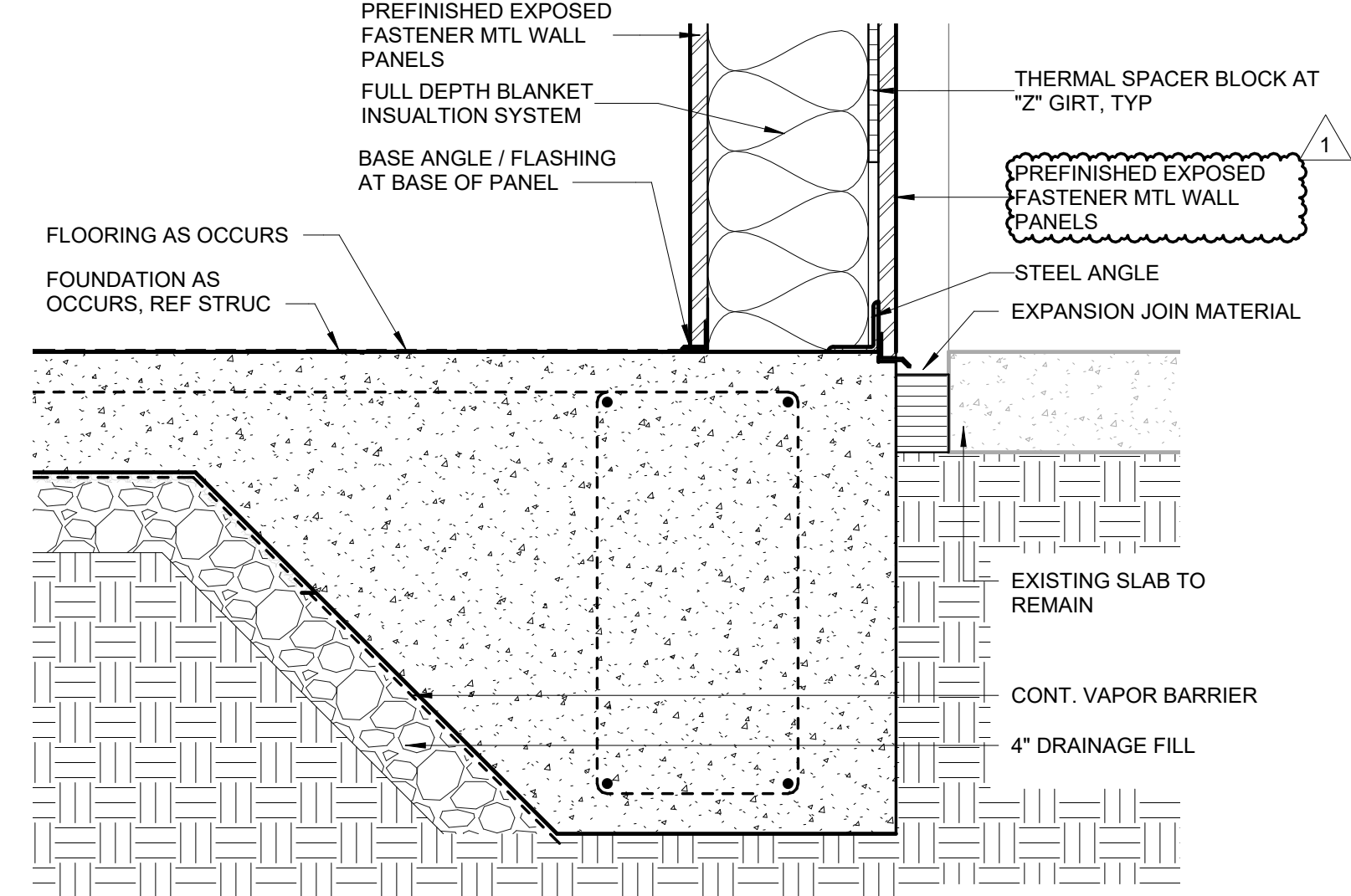
**7 TYPICAL EXTERIOR ROOF ASSEMBLY**  
3" = 1'-0"



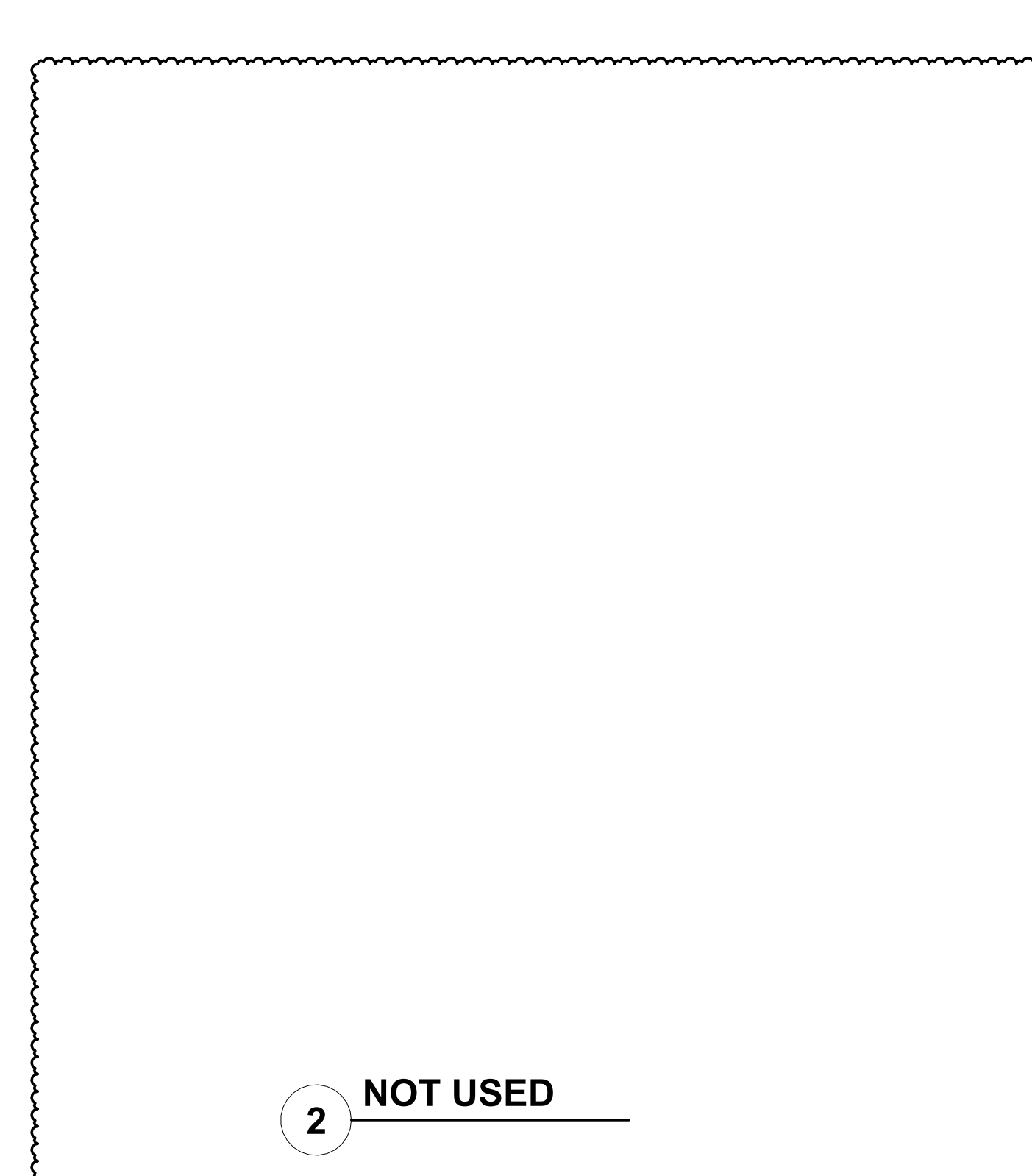
**6 CORNER DETAIL**  
3" = 1'-0"



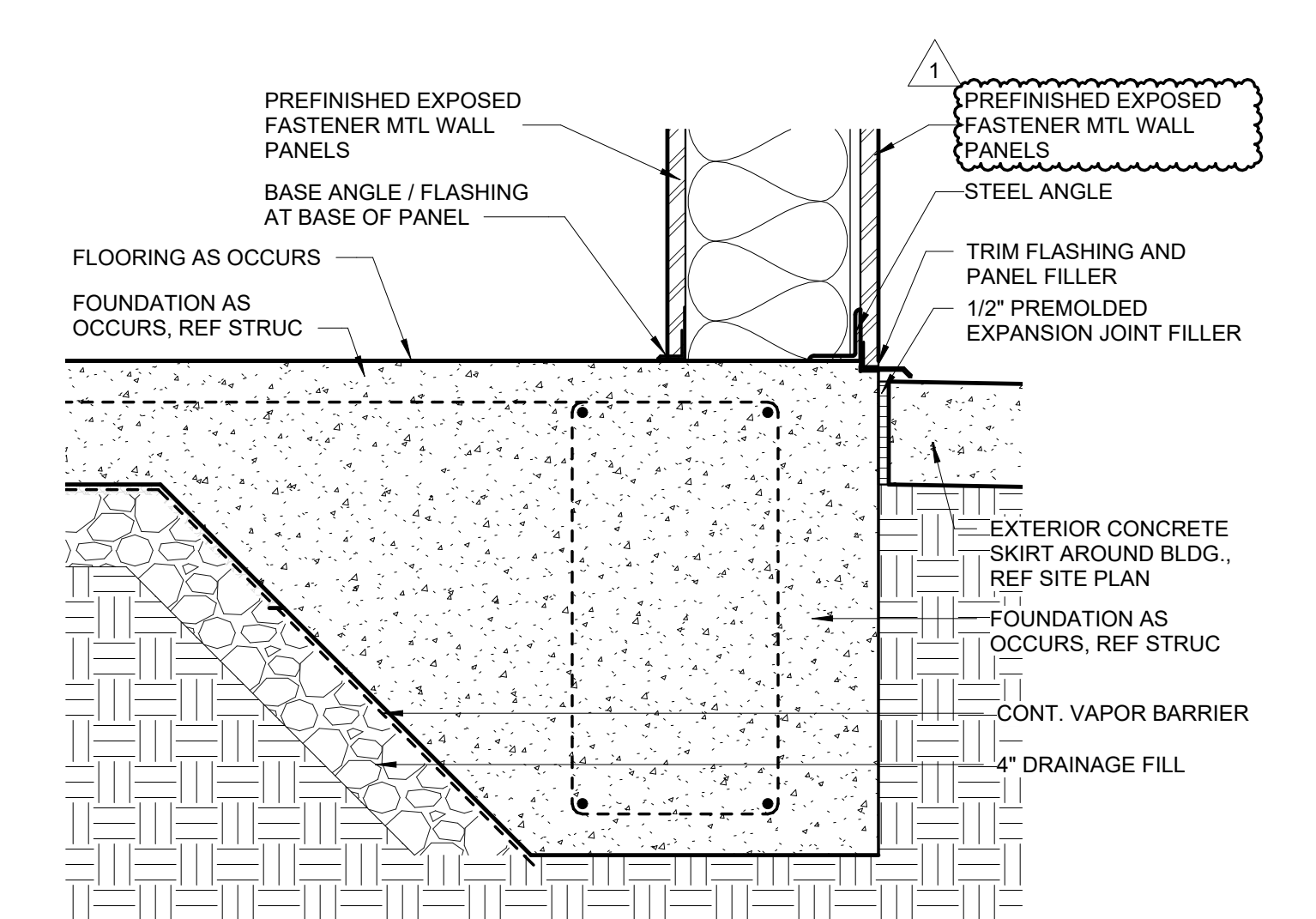
**4 METAL CANOPY CONNECTION**  
1 1/2" = 1'-0"



**3 FOUNDATION DETAIL**  
1 1/2" = 1'-0"



**2 NOT USED**



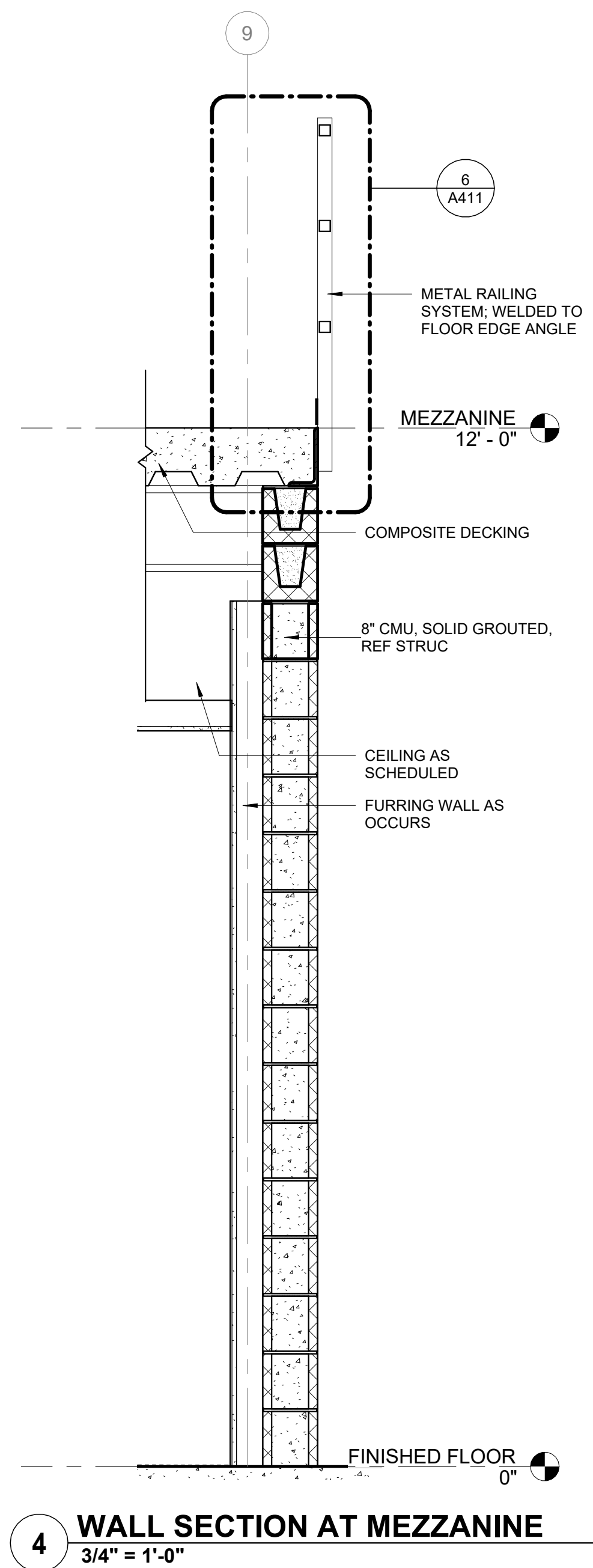
**1 FOUNDATION DETAIL**  
1 1/2" = 1'-0"



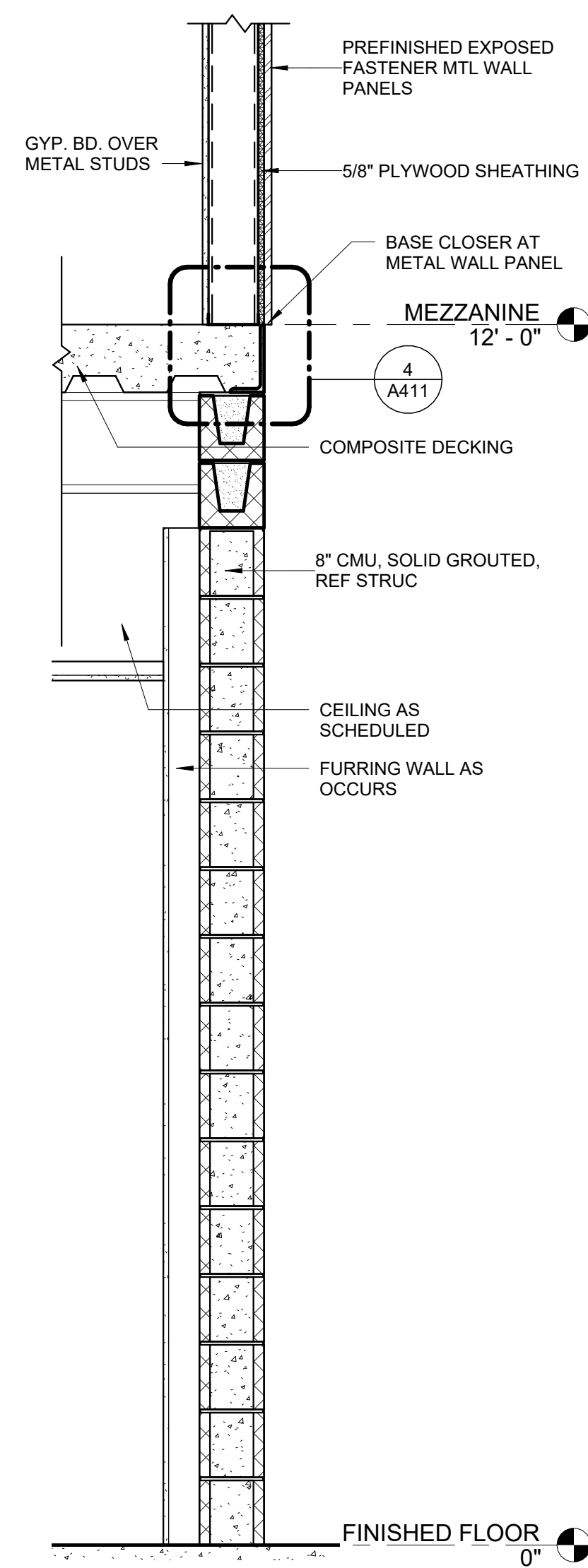




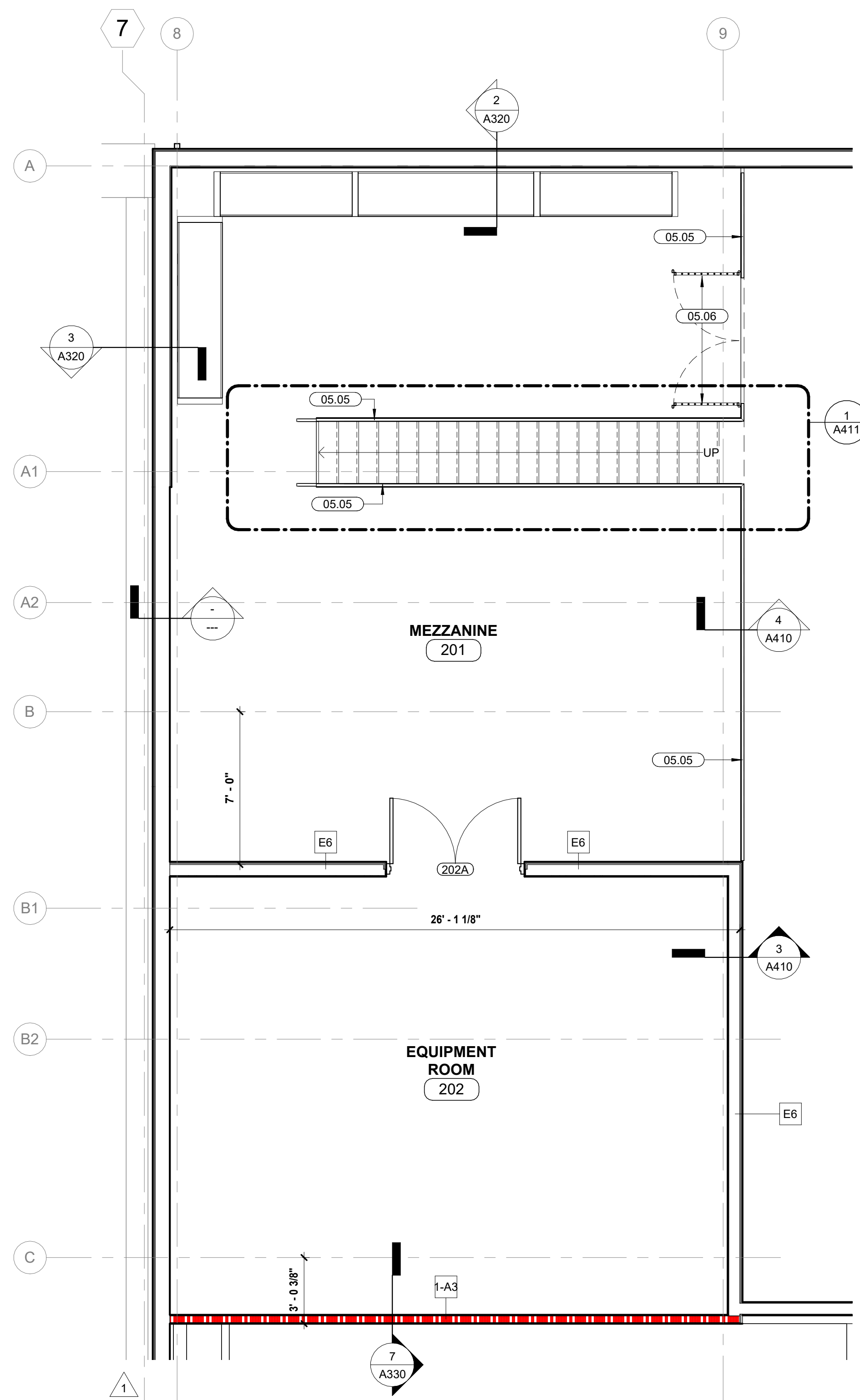
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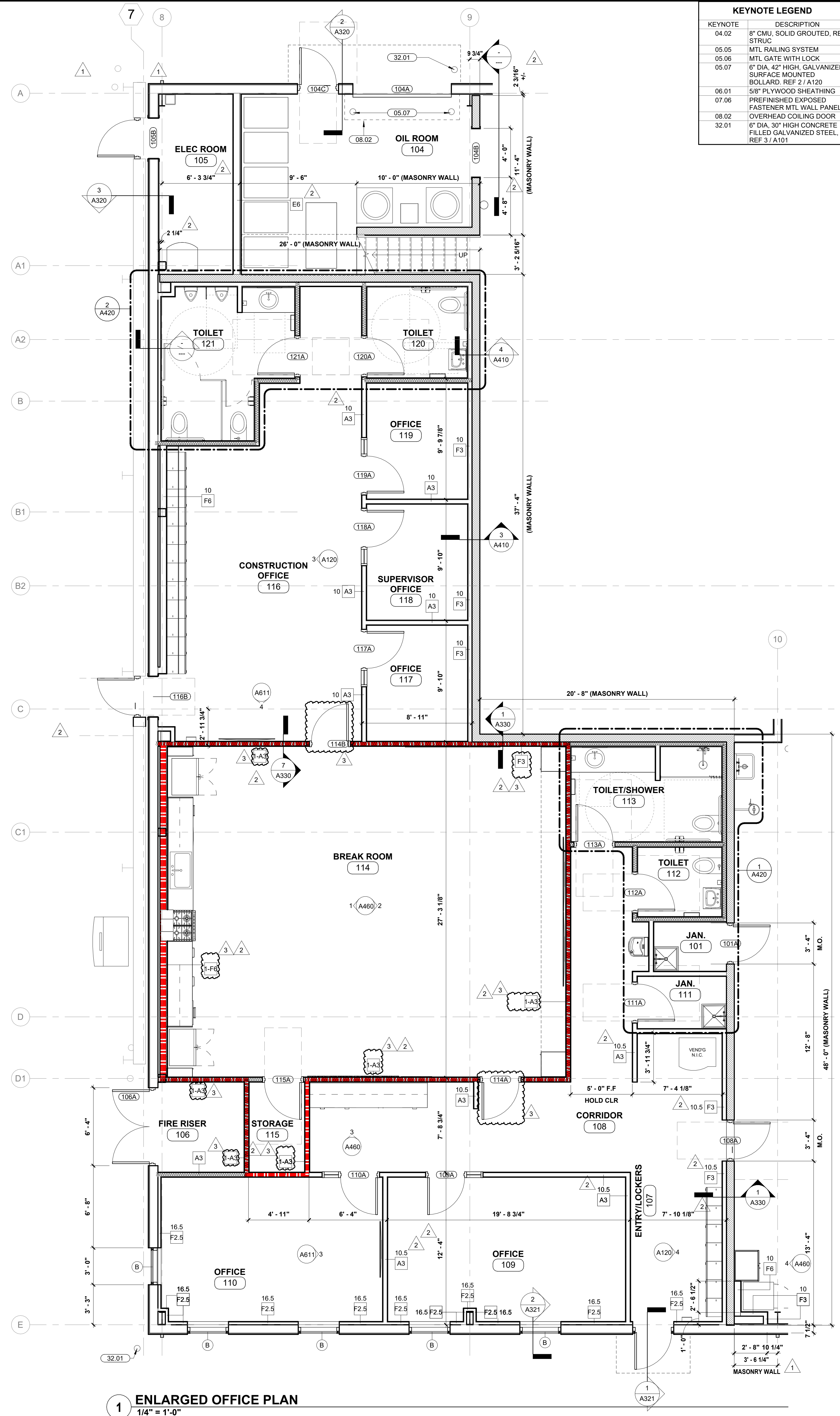
4 WALL SECTION AT MEZZANINE  
3/4" = 1'-0"



3 WALL SECTION AT MEZZANINE  
3/4" = 1'-0"



2 ENLARGED MEZZANINE PLAN  
1/4" = 1'-0"



1 ENLARGED OFFICE PLAN  
1/4" = 1'-0"

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
04.02	8" CMU, SOLID GROUTED, REF STRUC
05.05	MTL RAILING SYSTEM
05.06	MTL GATE WITH LOCK
05.07	6" DIA, 42" HIGH GALVANIZED SURFACE MOUNTED BOLLARD, REF 2/A120
06.01	5/8" PLYWOOD SHEATHING
07.08	PREFINISHED EXPOSED FASTENER MTL WALL PANELS
08.02	OVERHEAD COILING DOOR
32.01	6" DIA, 30" HIGH CONCRETE FILLED GALVANIZED STEEL, REF 3/A101

WDD ARCHITECTS

REGISTERED ARCHITECTS  
WITTERBERG  
DELONY  
DAVIDSON, INC.  
JONESBORO, ARKANSAS

PROJECT TITLE

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION

4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

CONTENTS

ENLARGED PLANS

REVISIONS

NO.	DATE	DESCRIPTION
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2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

JOB. NO. 24-096

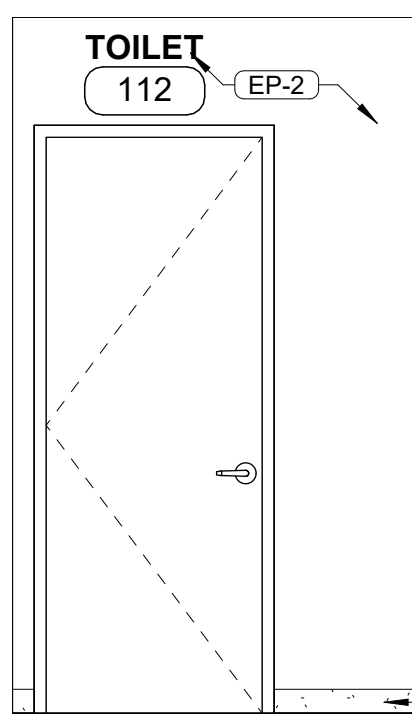
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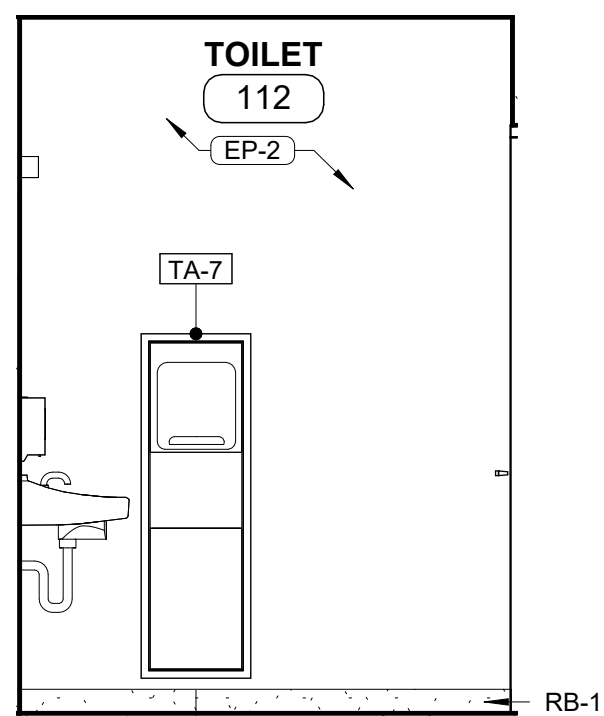
SHEET



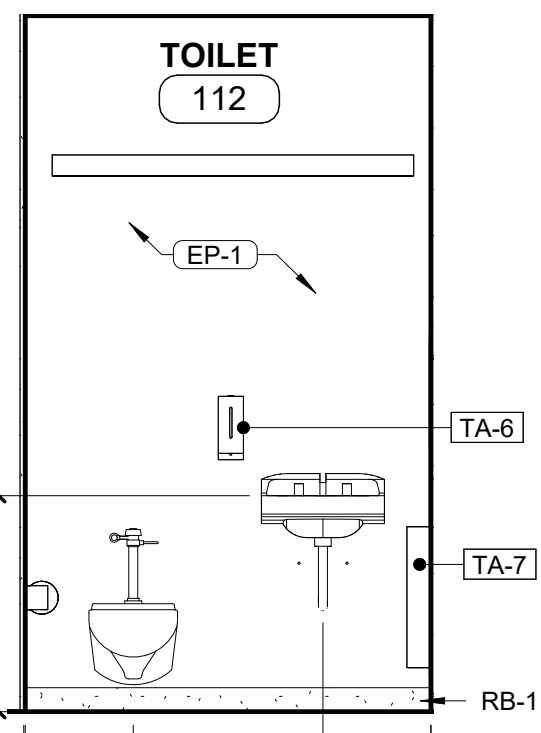
03/2025 13:52 PM Added: Don't Unghard Electric Maintenance Shop 14.096, Engined Elec. Maintenance 150.14



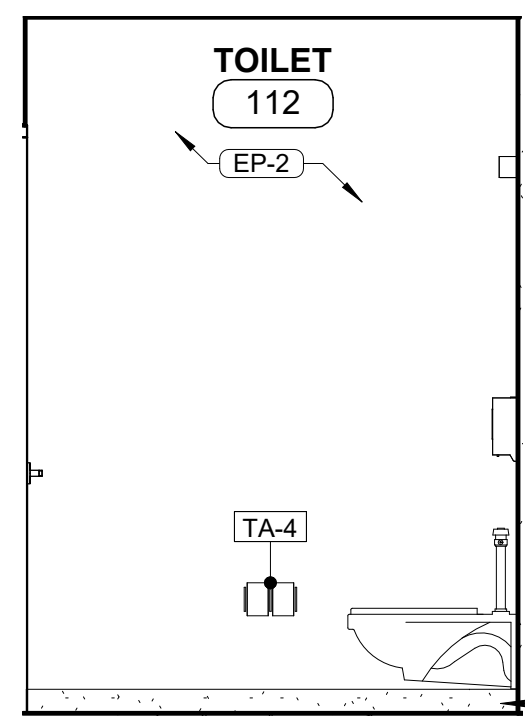
6 TOILET ELEVATION  
3/8" = 1'-0"



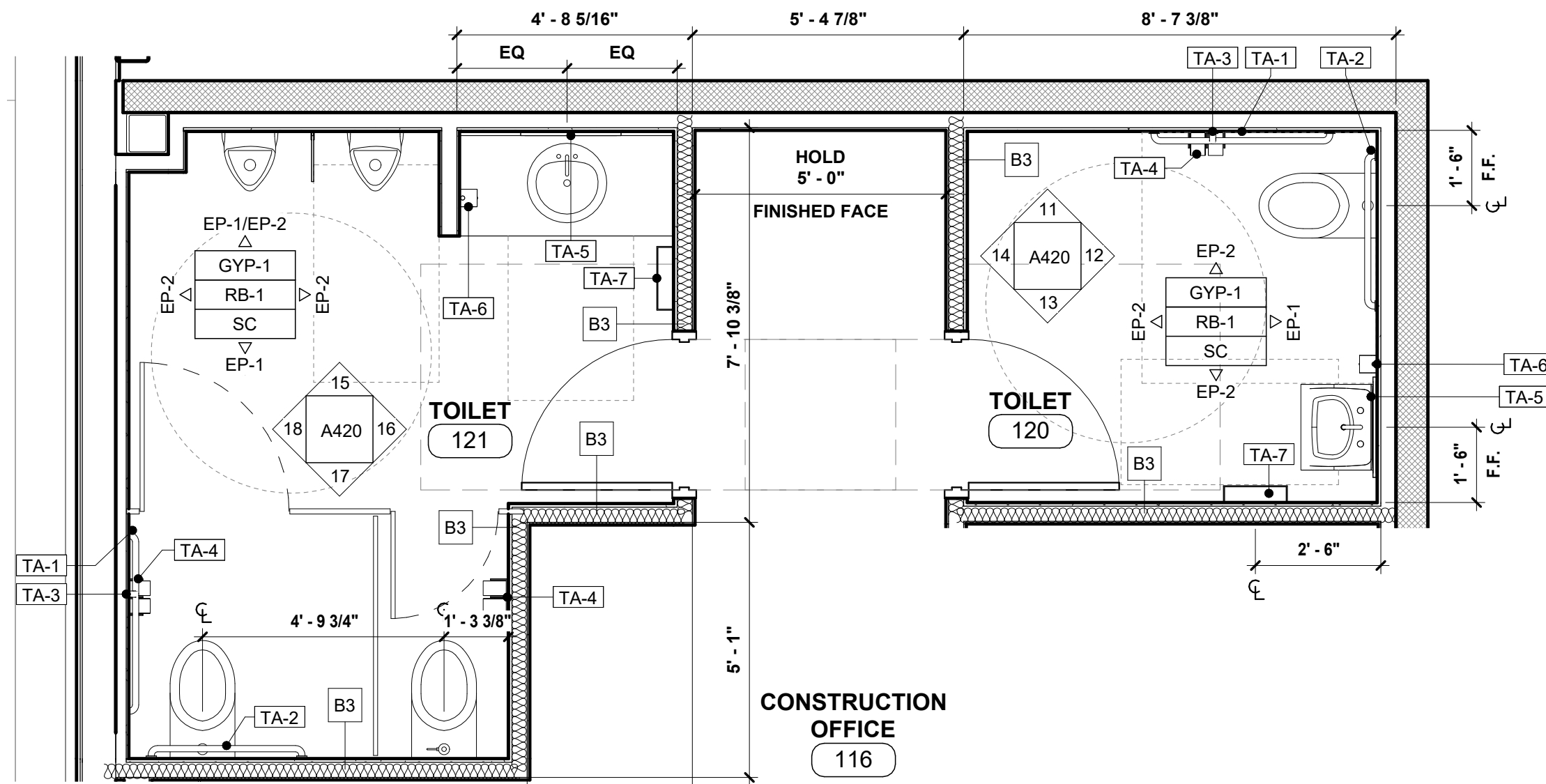
5 TOILET ELEVATION  
3/8" = 1'-0"



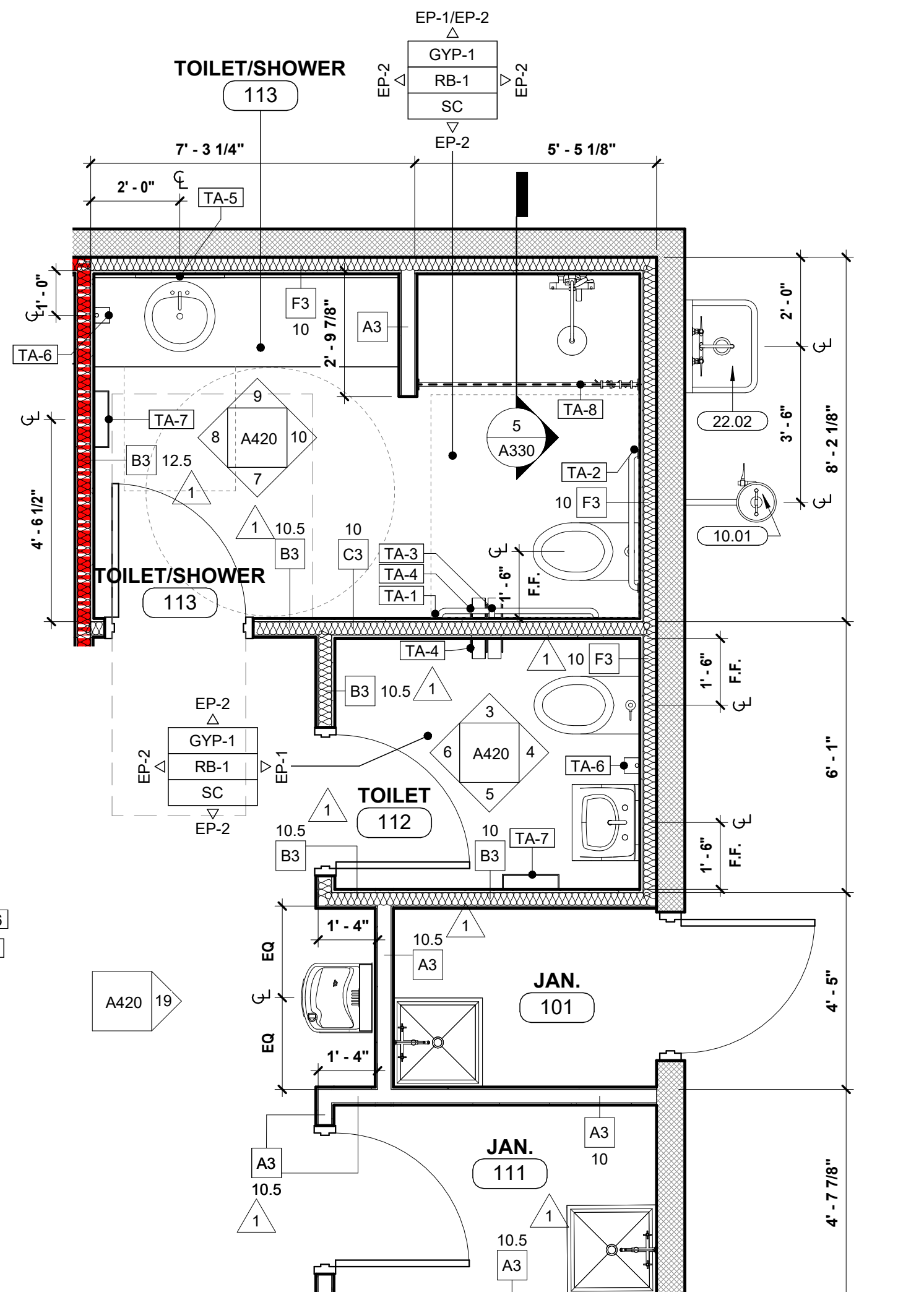
4 TOILET ELEVATION  
3/8" = 1'-0"



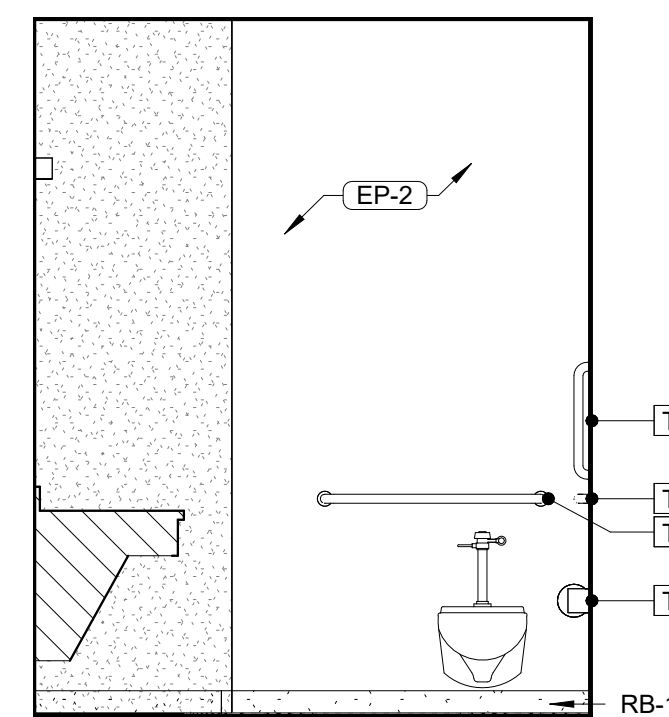
3 TOILET ELEVATION  
3/8" = 1'-0"



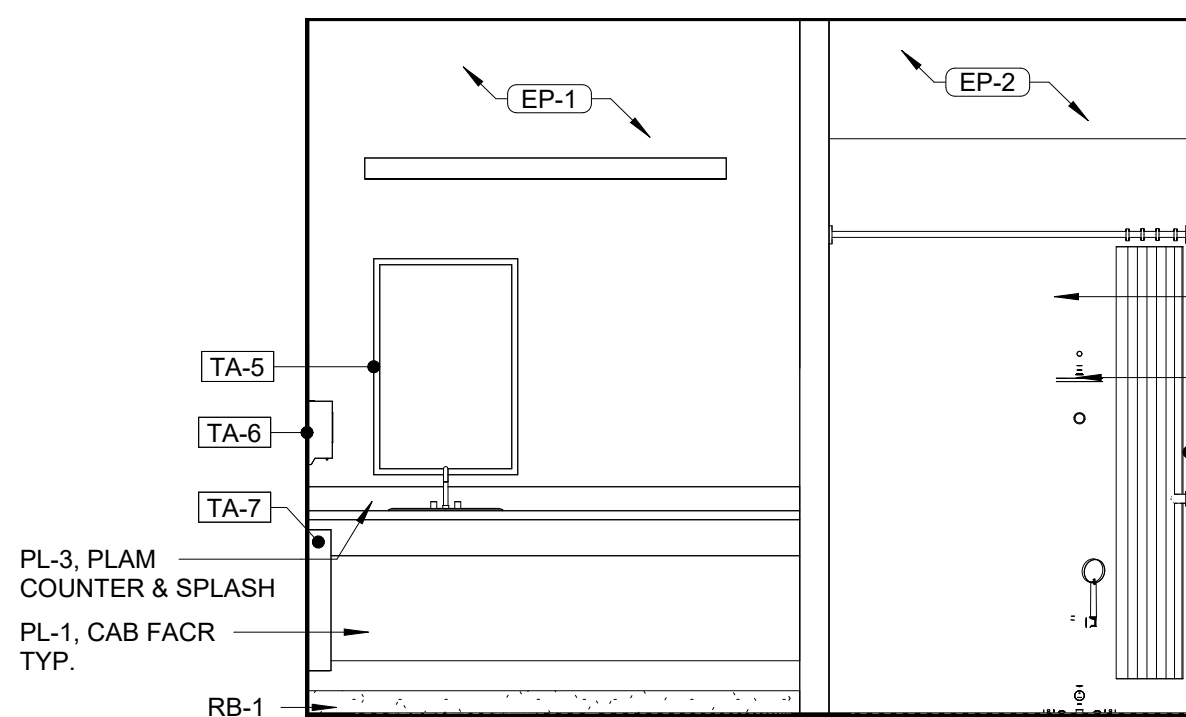
2 ENLARGED TOILET PLANS  
3/8" = 1'-0"



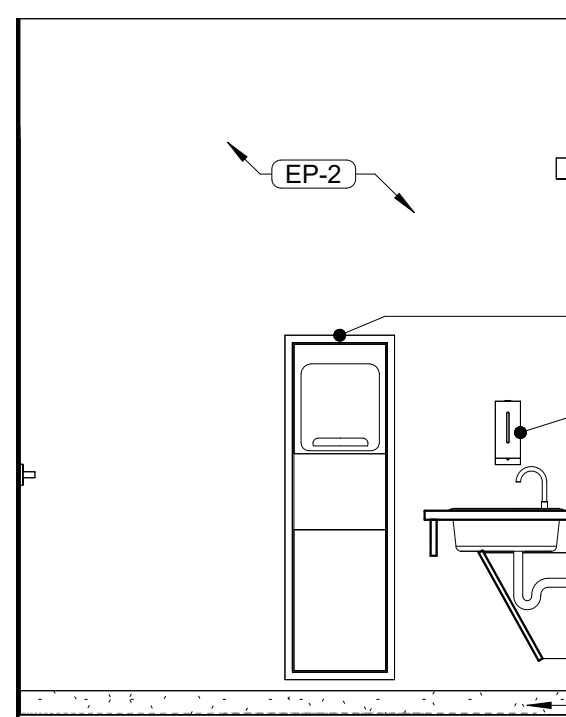
1 ENLARGED TOILET PLANS  
3/8" = 1'-0"



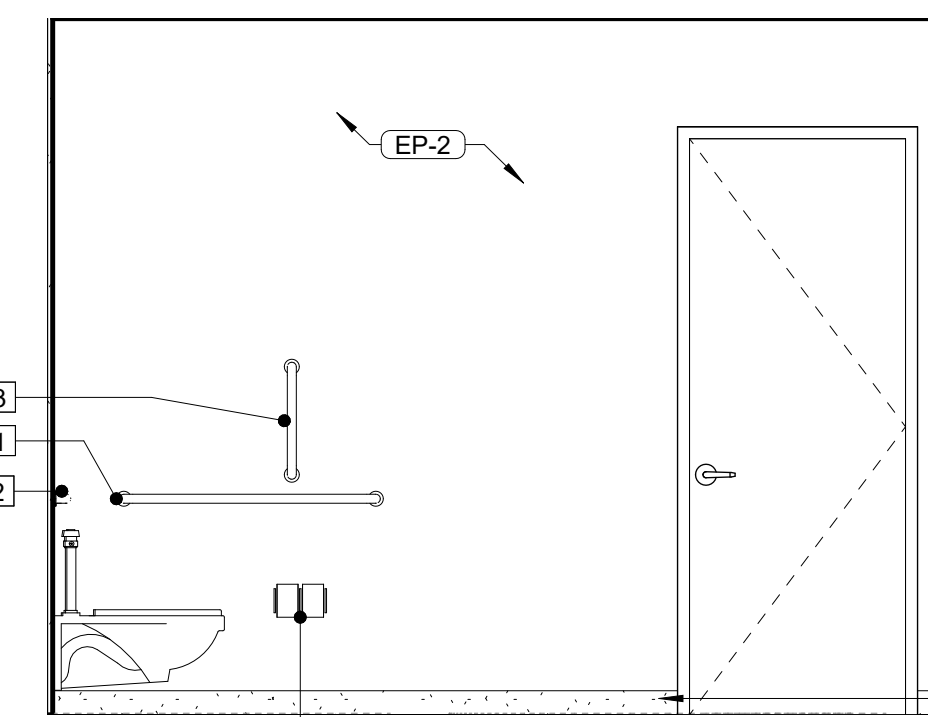
10 TOILET ELEVATION  
3/8" = 1'-0"



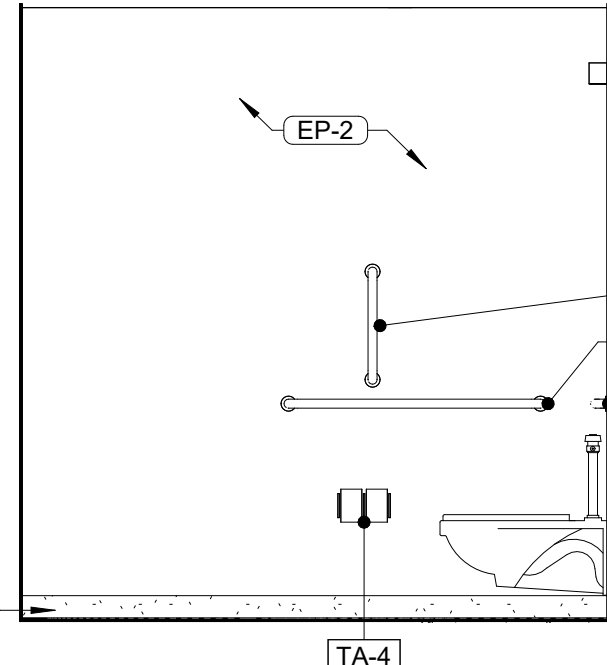
9 TOILET ELEVATION  
3/8" = 1'-0"



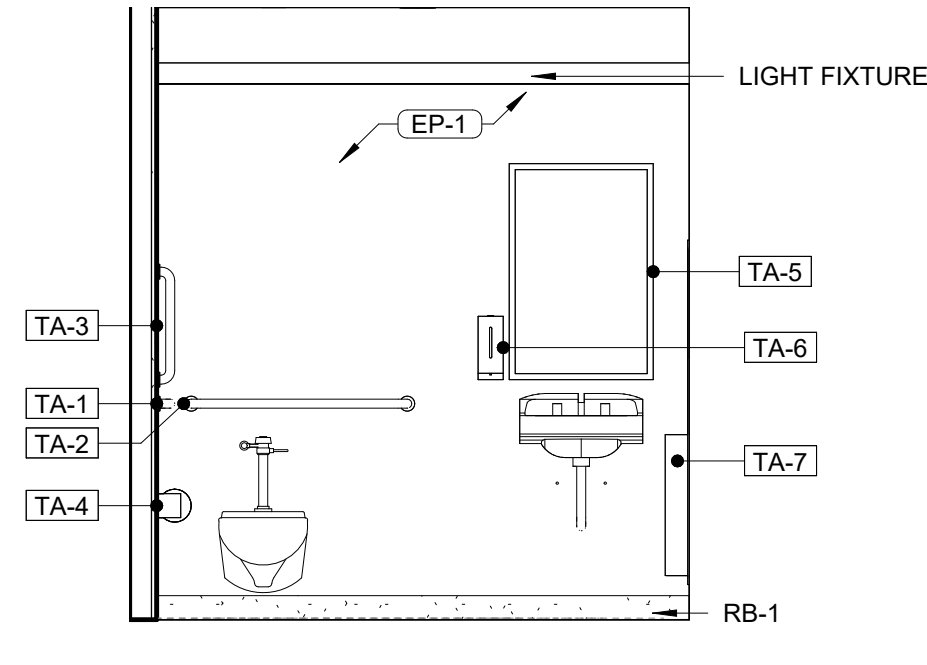
8 TOILET ELEVATION  
3/8" = 1'-0"



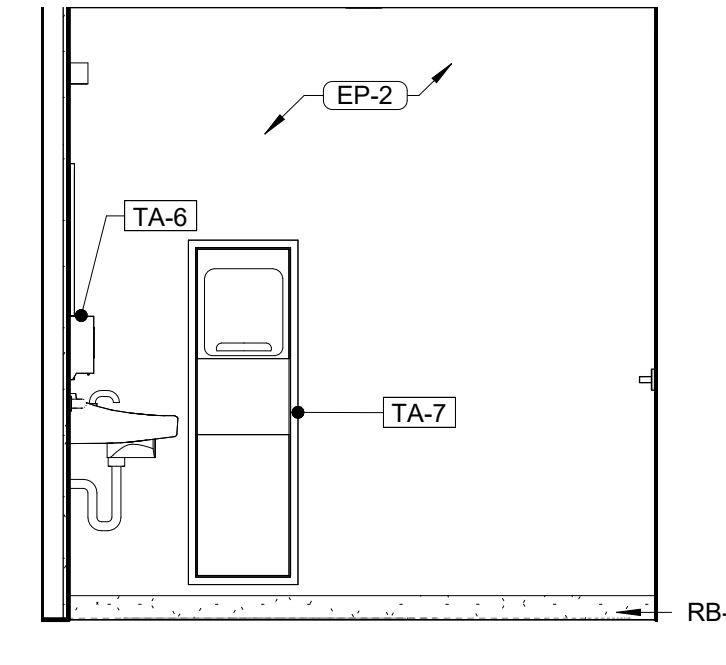
7 TOILET ELEVATION  
3/8" = 1'-0"



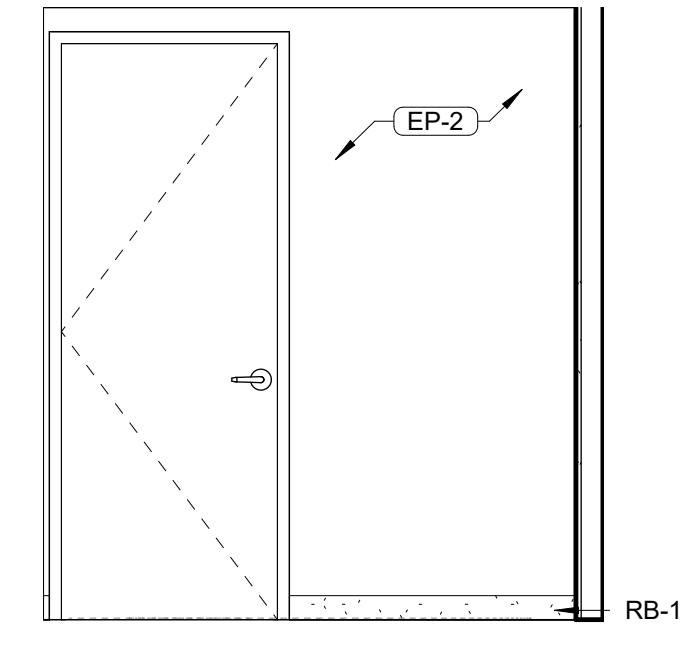
11 TOILET ELEVATION  
3/8" = 1'-0"



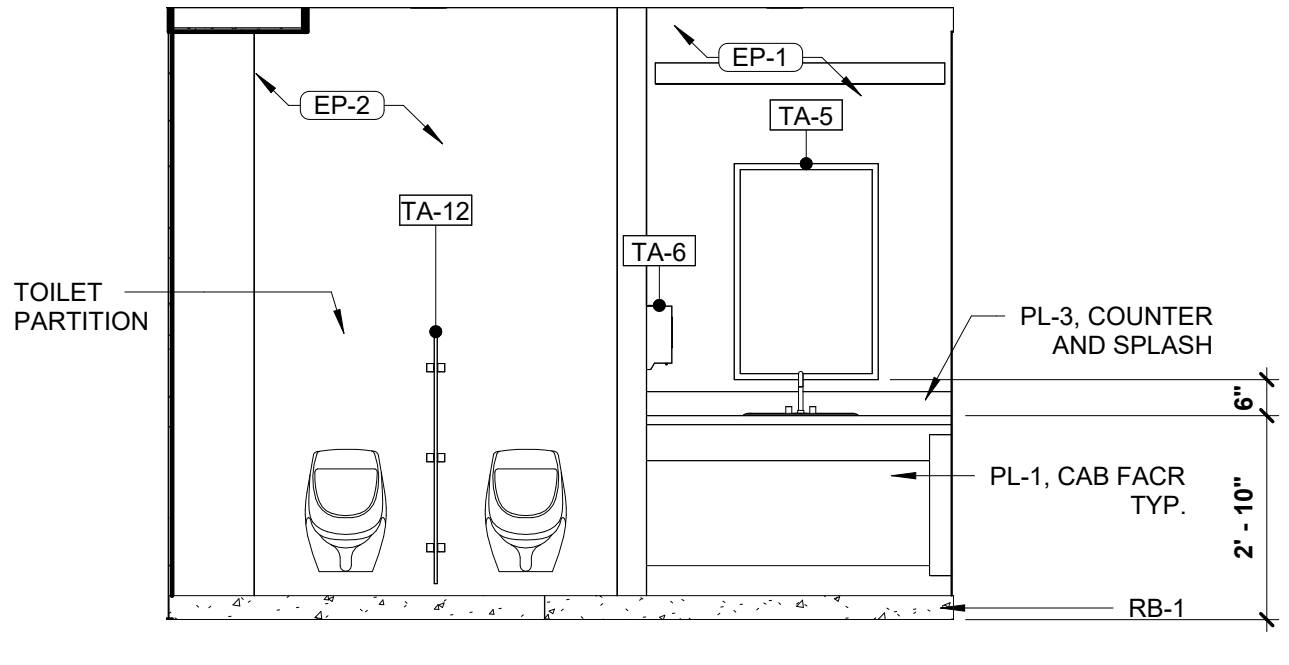
12 TOILET ELEVATION  
3/8" = 1'-0"



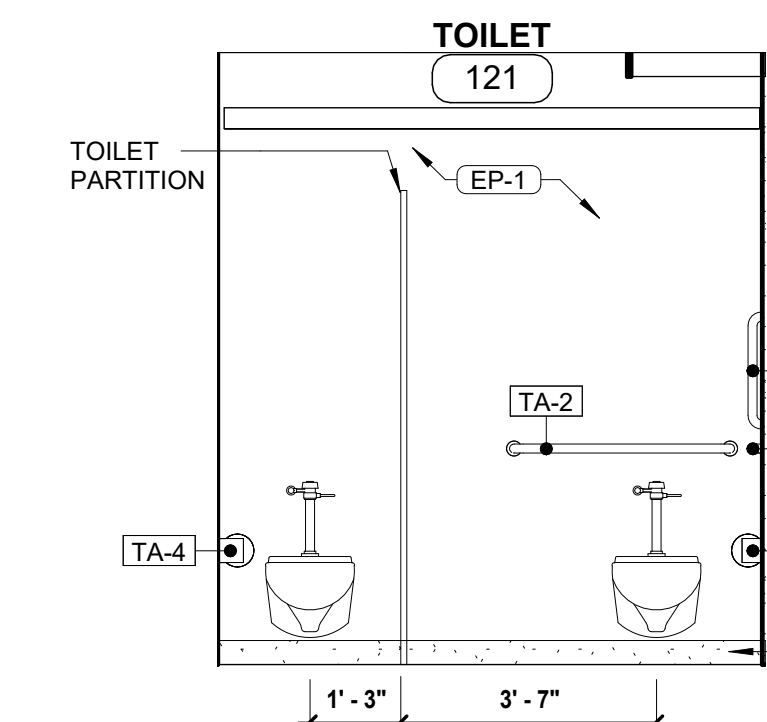
13 TOILET ELEVATION  
3/8" = 1'-0"



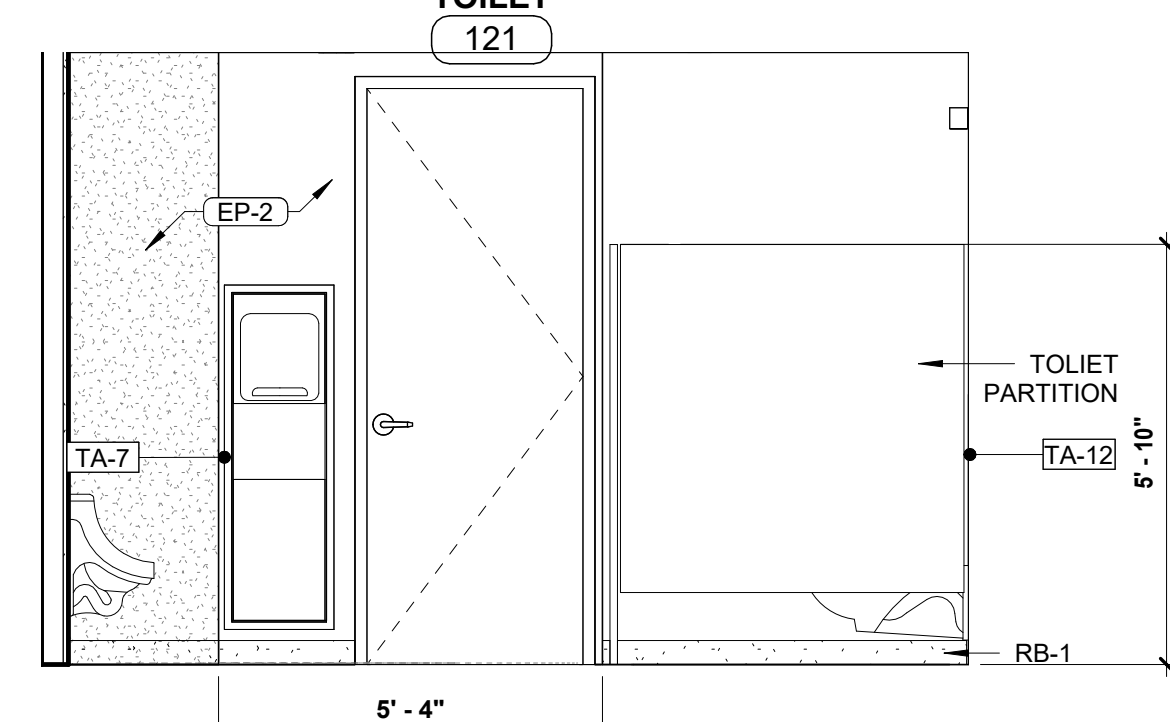
14 TOILET ELEVATION  
3/8" = 1'-0"



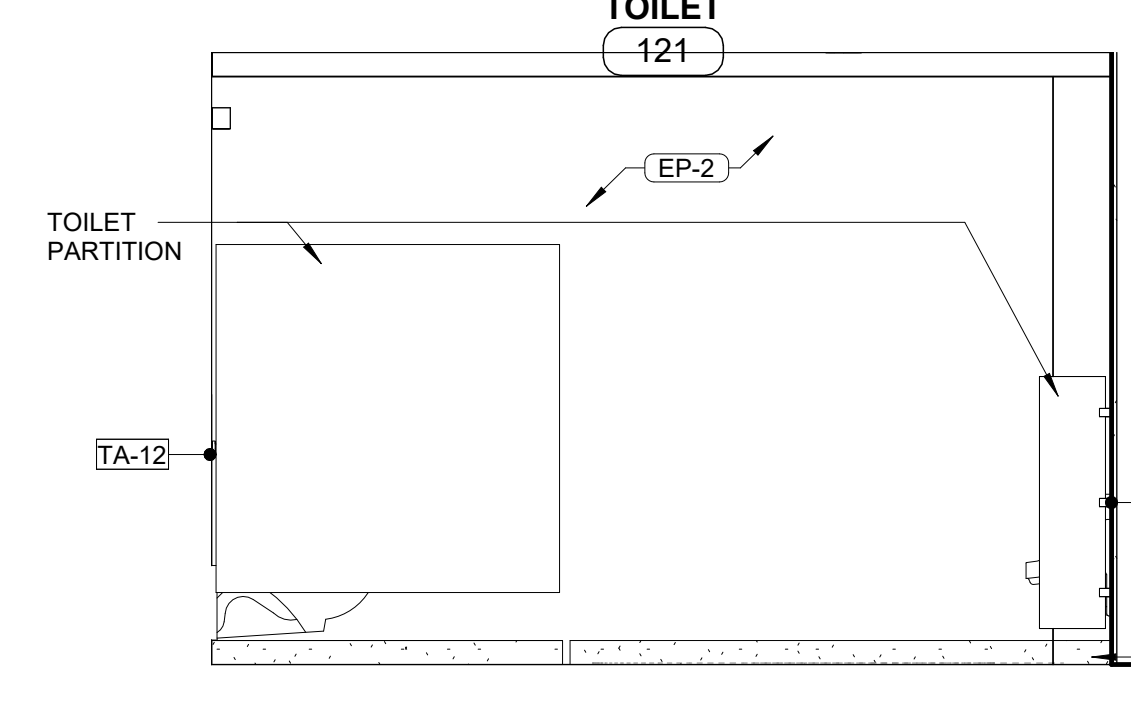
15 TOILET ELEVATION  
3/8" = 1'-0"



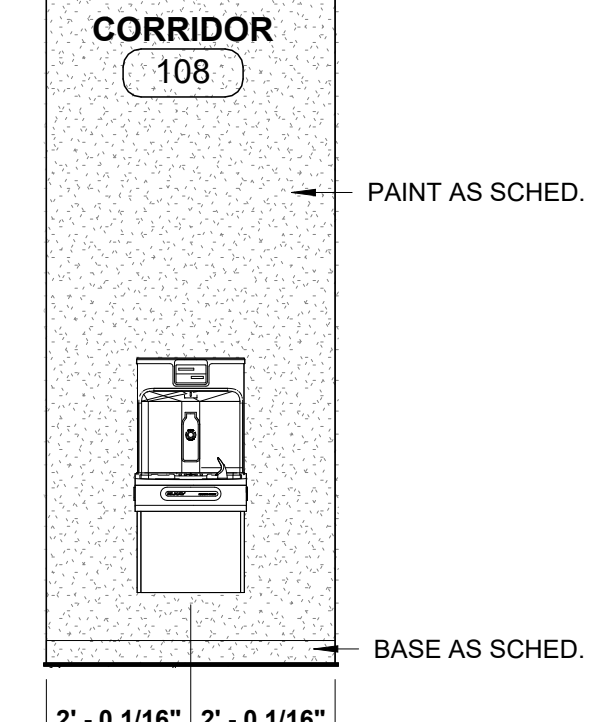
17 TOILET ELEVATION  
3/8" = 1'-0"



16 TOILET ELEVATION  
3/8" = 1'-0"



18 TOILET ELEVATION  
3/8" = 1'-0"

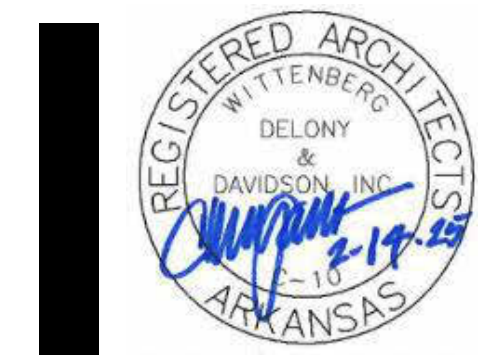


19 WATER FOUNTAIN ELEV.  
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE				
Type Mark	Description	Manufacturer	Model	Comments
TA-1	STAINLESS STEEL GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B-6806-42	STAINLESS STEEL
TA-2	STAINLESS STEEL GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B-6806-36	STAINLESS STEEL
TA-3	STAINLESS STEEL GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B-6806-18	STAINLESS STEEL
TA-4	TOILET PAPER DISPENSER	BOBRICK	B540	SATIN
TA-5	Type 304 Stainless Steel	American Specialties	Type 01	SATIN
TA-6	SOAP DISPENSER	BOBRICK	B-2111	SATIN
TA-7	RECESSED PAPER TOWEL DISPENSER	BOBRICK	B-3940	STAINLESS STEEL
TA-8	SHOWER ROD / CURTAIN WITH HOOKS	BOBRICK	B-6047	STAINLESS STEEL
TA-12	TOILET PARTITIONS	SCRANTON	HINEY HIDERS	CONCRETE - ORANGE PEEL

- SHEET NOTES**
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY MILLWORK, LOCKERS, SHELF UNITS, AND COUNTERS.
  2. CONTRACTOR TO INSTALL WATER RESISTANT GYP BD & FRP AT MOP SINK LOCATIONS. SEE ENLARGED PLANS FOR DETAILS.
  3. FOR PARTITION INFORMATION, REF A30.
  4. FOR FINISH INFORMATION, REF A510.
  5. ALL WALL TYPES CONFORM TO PARTITION TYPES INDICATED OTHERWISE ON FLOOR PLANS, ENLARGED PLANS, OR WALL SECTIONS.
  6. ALL DRYWALL JOINTS TO BE TAPED.
  7. ALL DRYWALL BELOW FINISHED CEILING TO BE PREPARED FOR PAINTING AS INDICATED ON INTERIOR ELEVATIONS AND FINISH SCHEDULE.
  8. FURNITURE AND EQUIPMENT PLANS, REF A511.
  9. ANY PLUMBING LOCATED IN EXTERIOR WALL TO BE INSULATED.
  10. PORTABLE FIRE EXTINGUISHER PER NFPA-10 INSTALLED PER
  11. PLANS AND SUBJECT TO LOCAL JURISDICTION APPROVAL.

COLOR LEGEND	
TAG	COLOR
EP-2	SW7667 "ZIRCON"



PROJECT TITLE

CONTENTS

REVISIONS

SHEET

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

ENLARGED TOILET PLANS AND  
ELEVATIONS

NO.	DATE	DESCRIPTION
1	03/10/25	ADD #2
2	04/03/25	POST BID #1

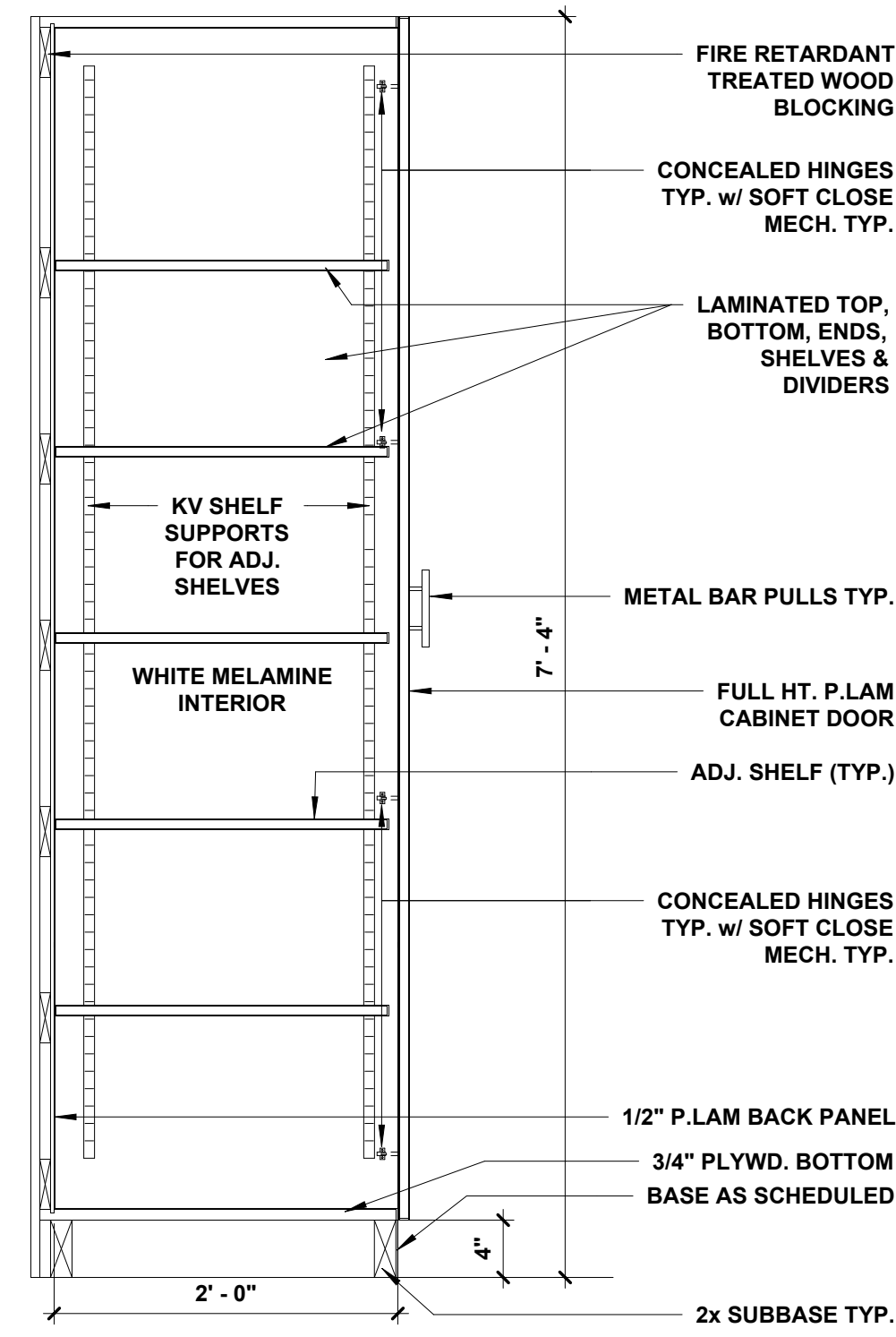
24-096  
JOB. NO.  
02.14.2025  
DATE

ISSUE  
A420

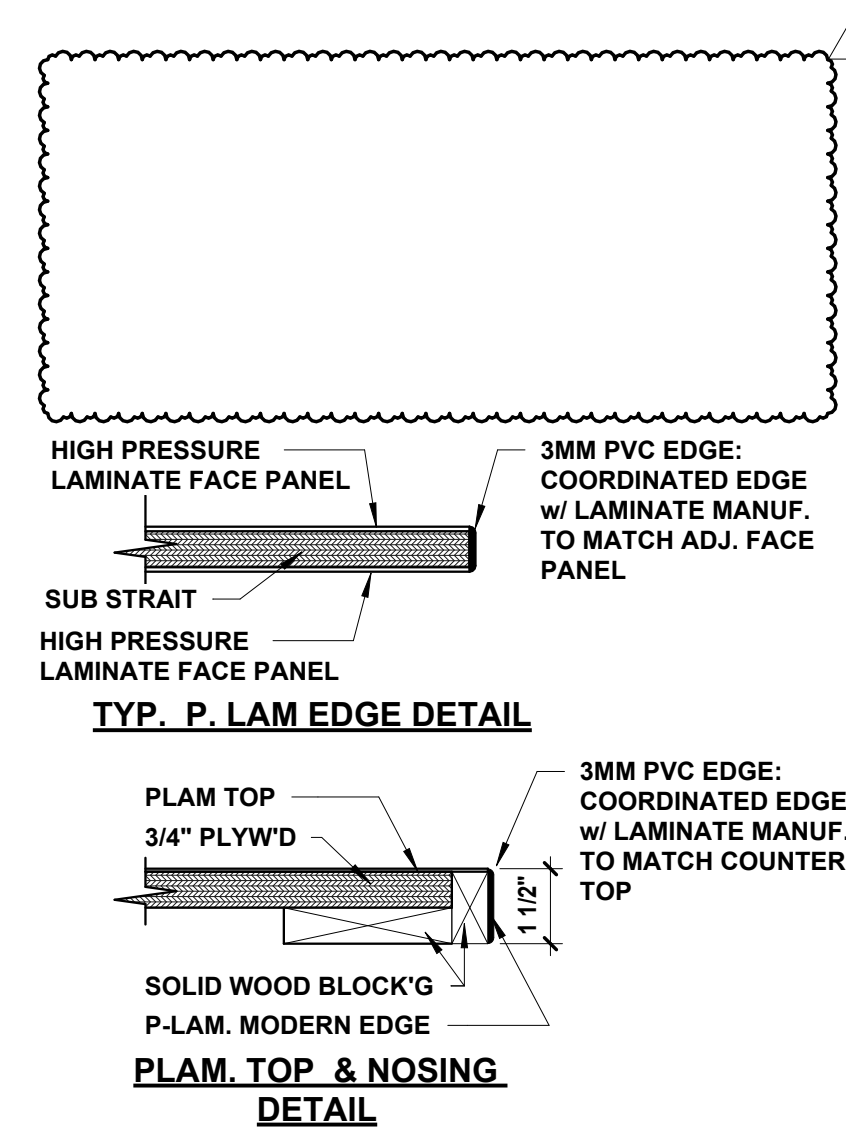


MILLWORK HARDWARE SCHEDULE								
ITEM	DESCRIPTION	CFCI	MANUFACTURER	MODEL	COLOR	SIZE		COMMENTS
MILLWORK HARDWARE								
H1	CABINET PULLS	X	LIBERTY	P13457C-SS-C	STAINLESS STEEL	3 - 3/4"		ALL INTERIOR MILLWORK PULLS
H3	MILLWORK HINGE	X	BLUM	71T5590B	NICKEL	-		ALL CABINET DOOR HINGES SOFT CLOSE
H3A	MILLWORK HINGE (APPROVED ALTERNATE)	X	BLUM	71B3590	NICKEL	-		ALL CABINET DOOR HINGES SOFT CLOSE
H4	ADJUSTABLE SHELVING SUPPORT CLIPS	X	HANDY BUTTON	THB6144 - 5MM SPOON	NICKEL	5/16"		ALL CABINETS WITH ADJUSTABLE SHELVES
H45	COAT HOOK - RESTROOM	X	MOCKETT	BARREL COAT HOOK HK22	SATIN ALUMINUM (94)	-		-
H6	PULL-OUT TRASH CAN - KITCHENETTE AND CONFERENCE	X	ALICIDE	OPAM12135C	-	19 5/8"		REF. ELEVATIONS FOR LOCATIONS
H7	SOFT CLOSE DRAWER SYSTEM	X	SACCIRE	3832	ZINC			ALL DRAWERS TO BE SOFT CLOSE

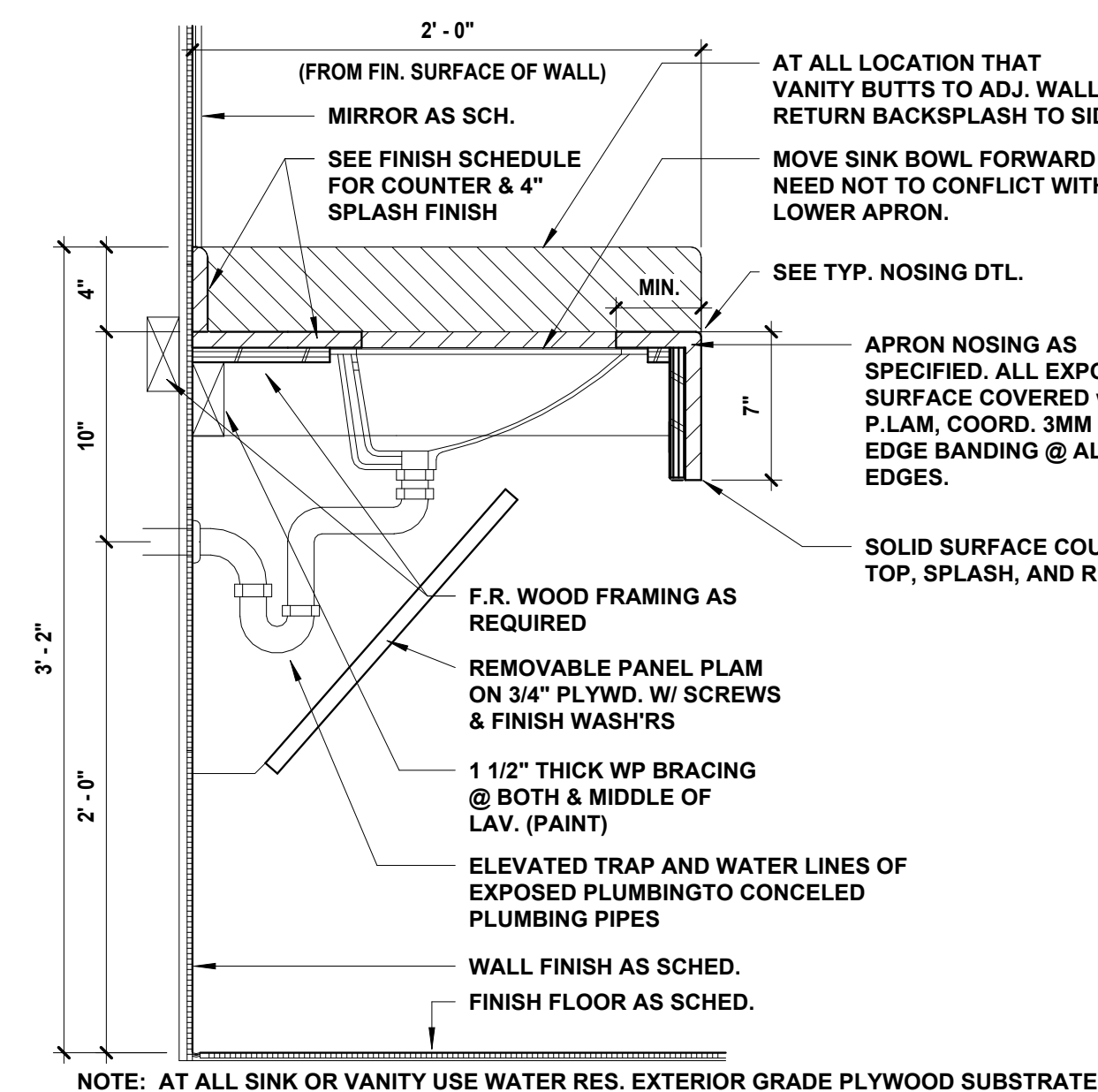
- | SHEET NOTES |  |
|-------------|--|
| 1.          | PROVIDE GROMMETS AS REQUIRED FOR TELEPHONES, ELECTRICAL EQUIPMENT, COMPUTERS, MONITORS, ETC. (FIELD LOCATION SEE ELECTRICAL & SYSTEM PLANS. VERIFY WITH OWNER ANY AND ALL OTHER EQUIPMENT AS NEEDED. |
| 2.          | LOCATION OF GROMMETS ON HORIZONTAL SURFACES TO BE VERIFIED BY ARCHITECT PRIOR TO INSTALL.  |
| 3.          | ALL SOLID SURFACE COUNTER WITH A 4" BACKSPLASH ARE TO BE INTEGRAL VERTICAL AND HORIZONTAL SURFACES.  |
| 4.          | PROVIDE BLOCKING FOR ALL WALL MOUNTED CABINET, EQUIPMENT, ACCESSORIES, ECT.  |
| 5.          | FIELD VERIFY ALL OWNER & CONTRACTOR FURNISHED EQUIPMENT AND DIMENSIONS WITH ALL MILLWORK DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.                                    |
| 6.          | PVC EDGE TO BE COORDINATED TO MATCH FACE LAMINATE ON ALL MILLWORK.   |
| 7.          | ALL STAIN GRADE MILLWORK TO FOLLOW "PREMIUM GRADE" A.W.I. FINISH STANDARDS.  |



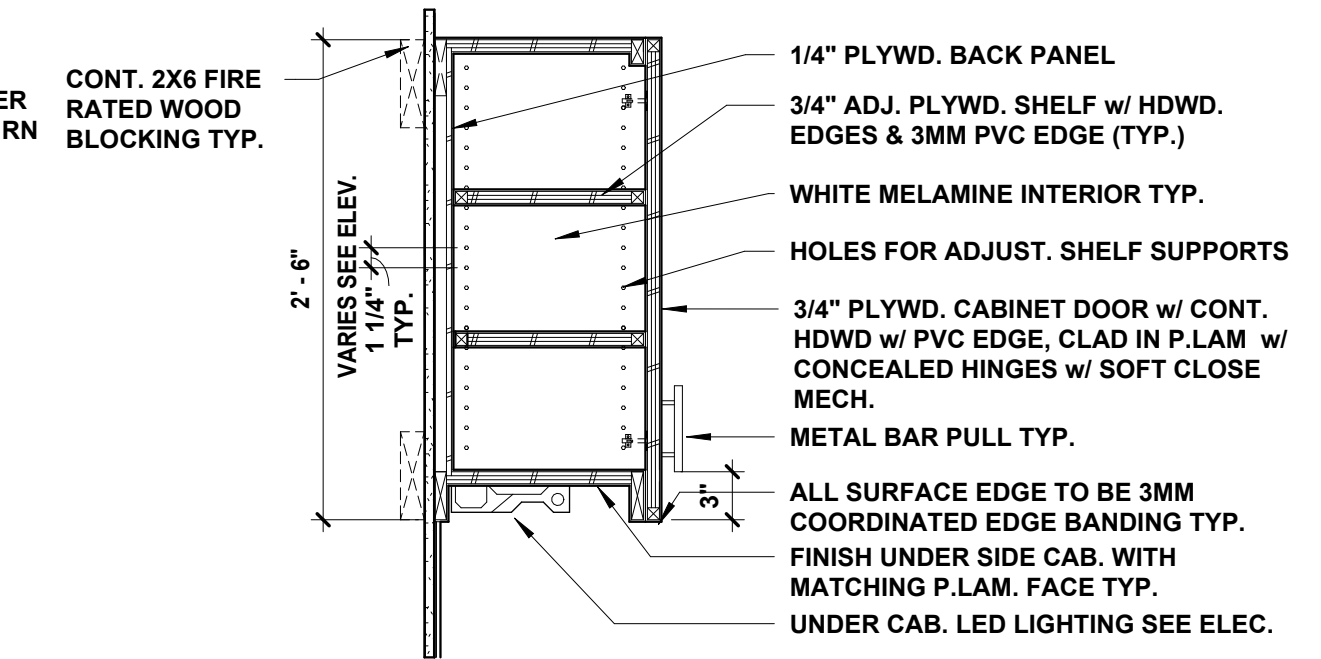
**MILLWORK DETAIL - FULL HEIGHT  
CABINET W/DOOR**  
1" = 1'-0"



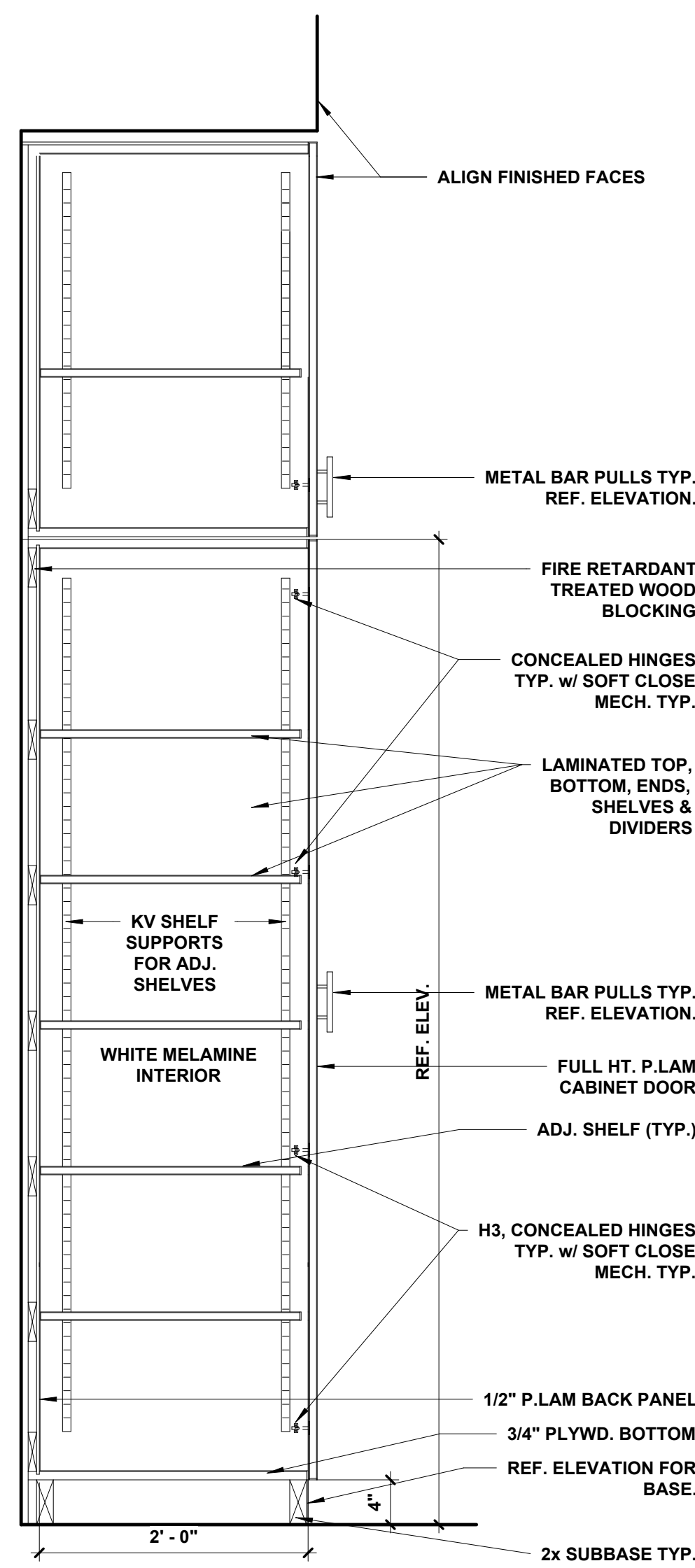
**MILLWORK DETAIL - COUNTERTOP,  
NOSING & EDGE PROFILES**



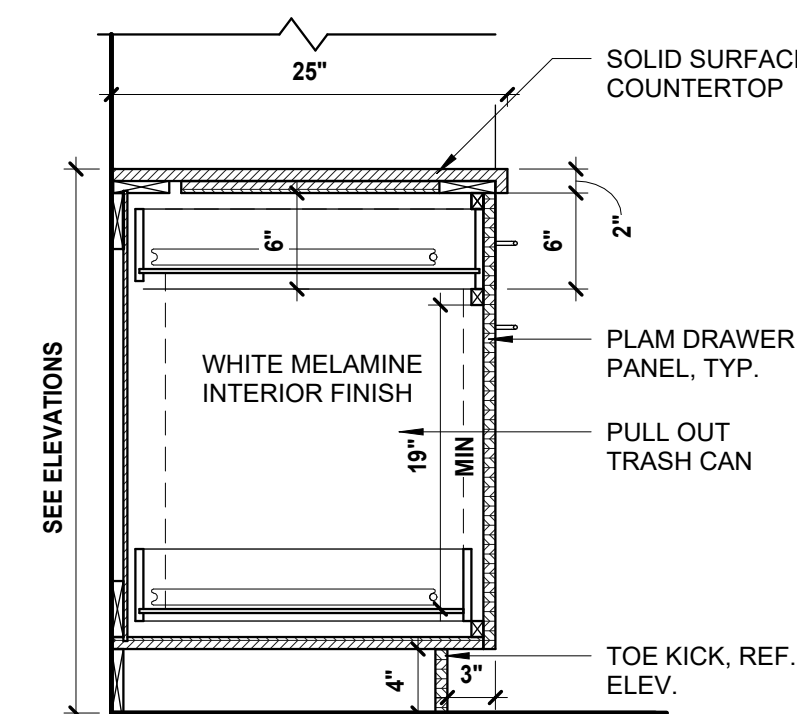
NOTE: AT ALL SINK OR VANITY USE WATER RES. EXTERIOR GRADE PLY.  
**MILLWORK DETAIL - HANGING VANITY**  
**SECTION**  
 1 1/2" = 1'-0"



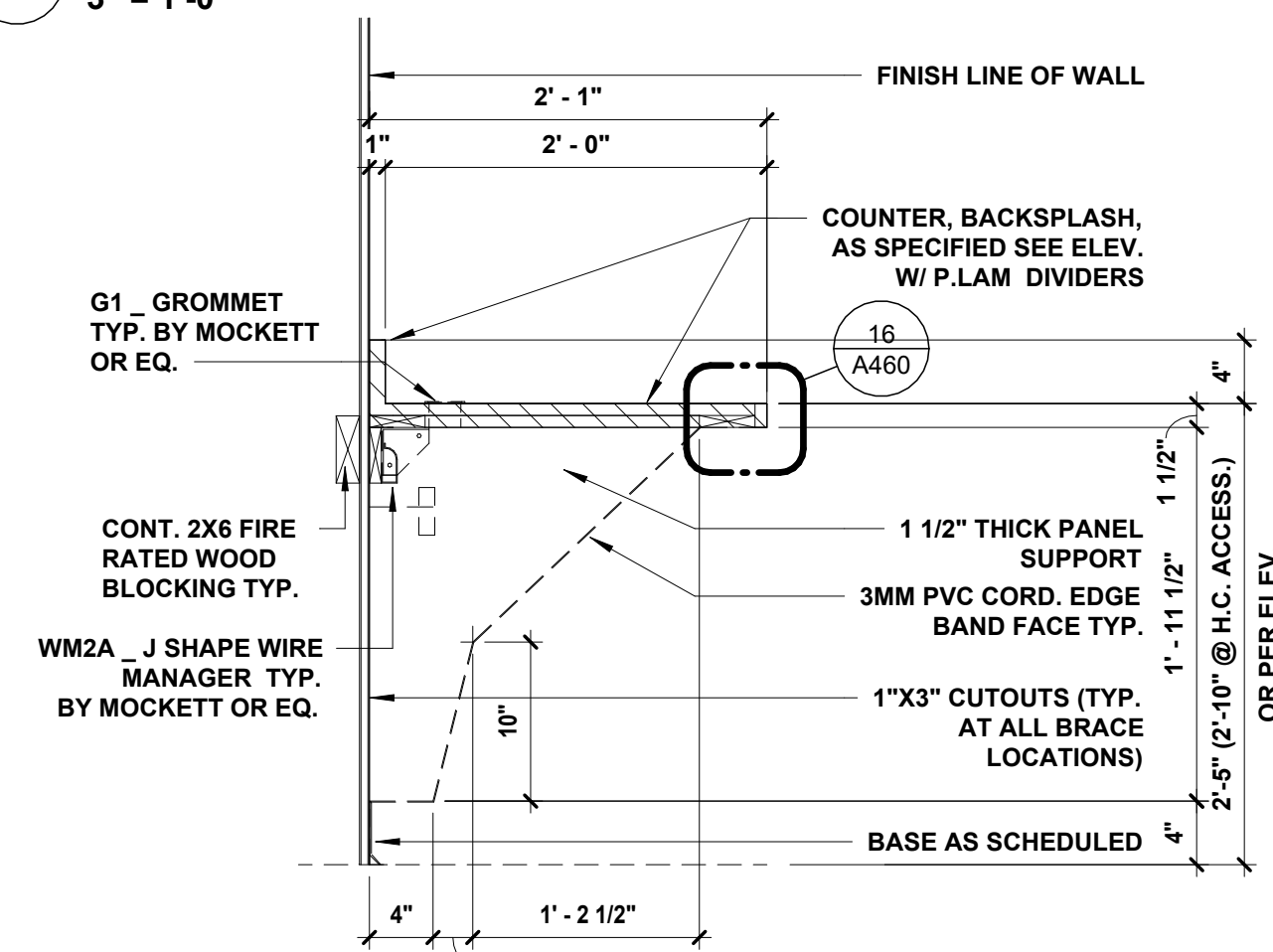
**14** MILLWORK DETAIL - UPPER CABINET TYP.  
UNDER CABINET LIGHTING  
1" = 1'-0"



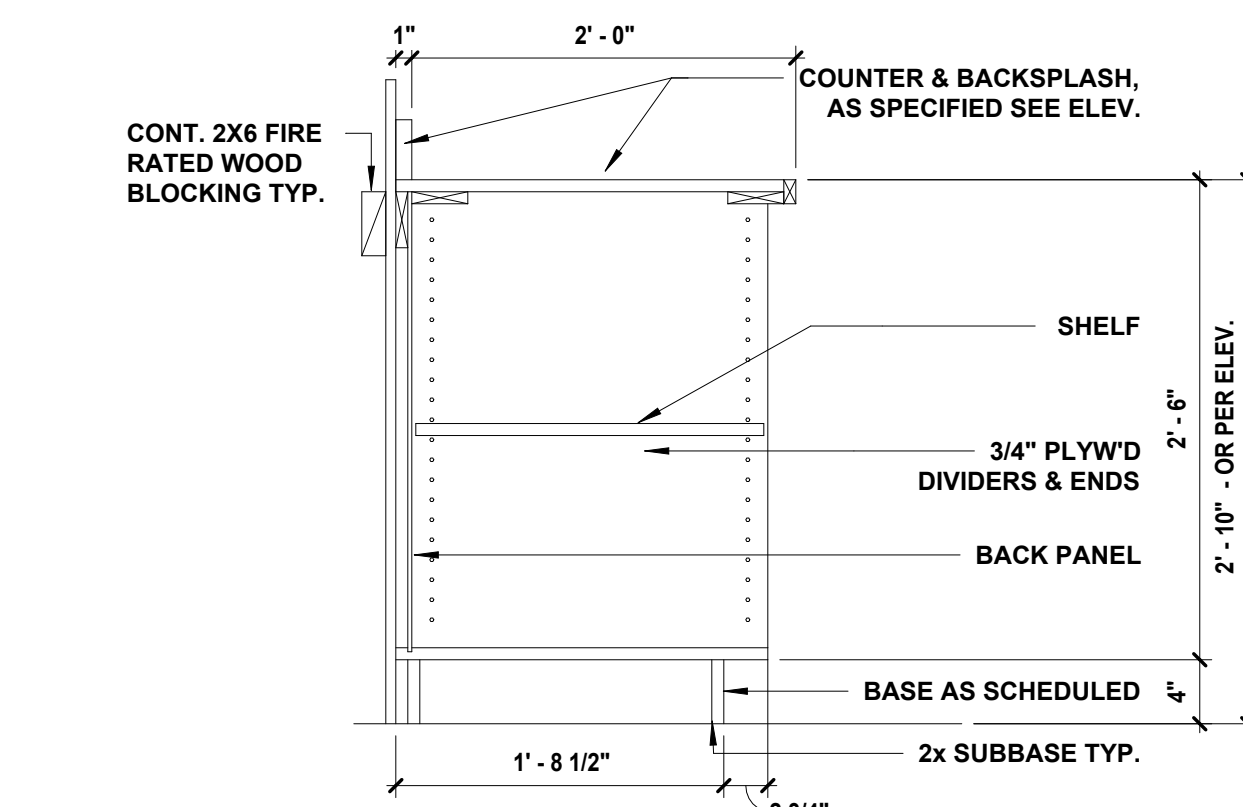
**9 FULL HEIGHT CAB.**  
1" = 1'-0"



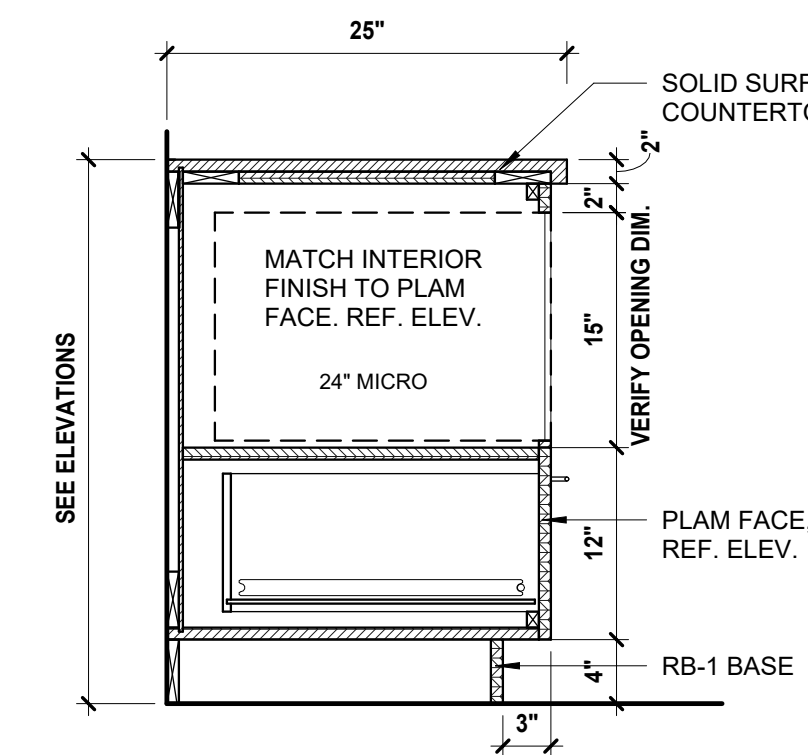
**13 TRASH PULLOUT CABINET**  
1" = 1'-0"



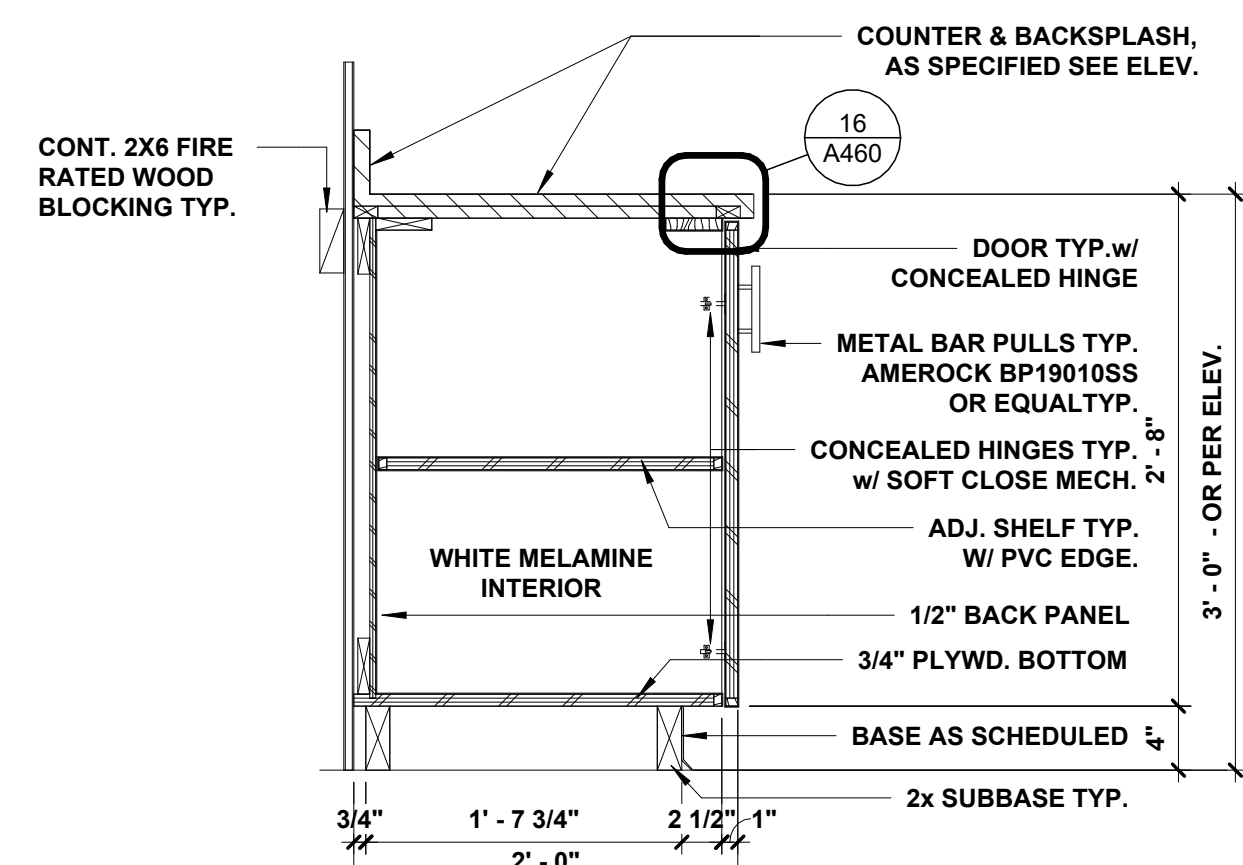
**MILLWORK DETAIL - BASE CABINET -**  
**WORK SURFACE**  
1" = 1'-0"



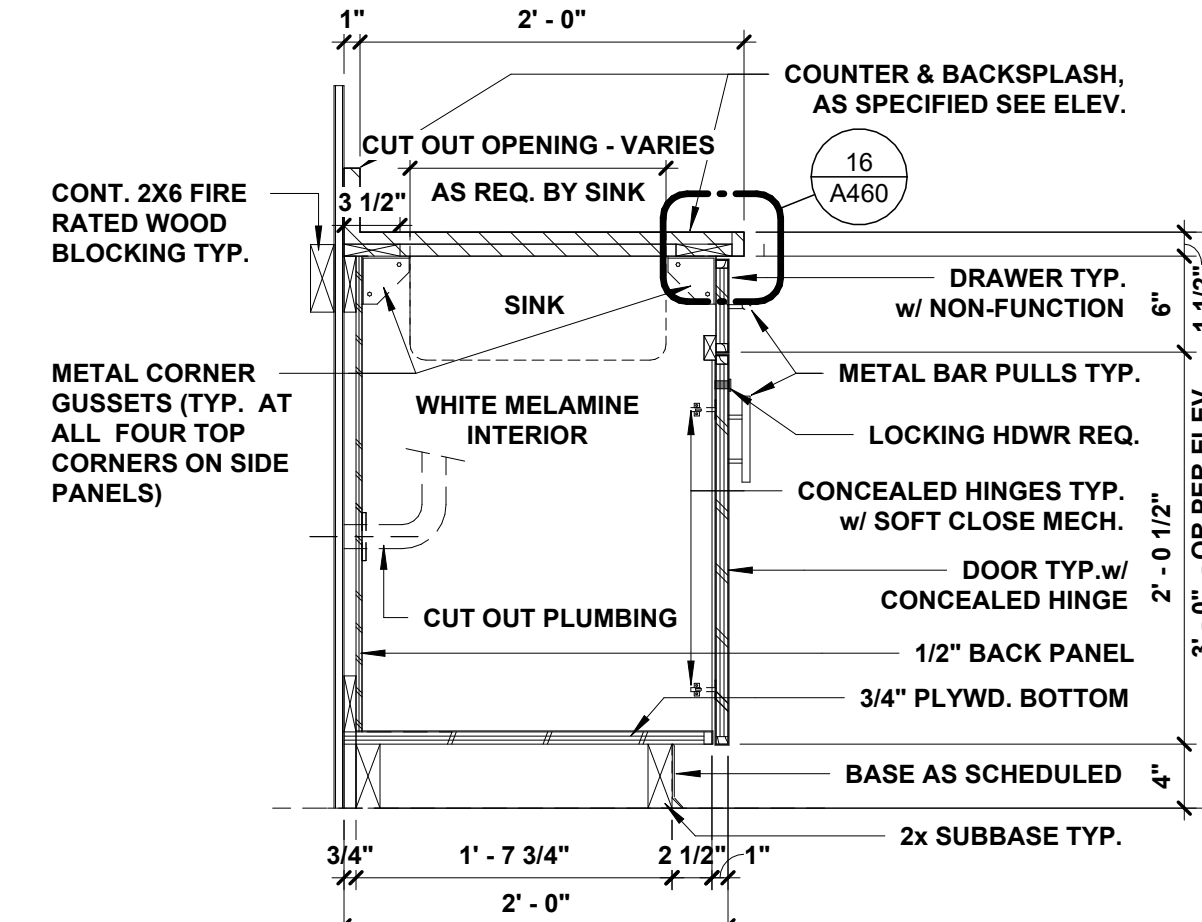
**MILLWORK DETAIL - BASE CABINET -  
OPEN SHELVES**



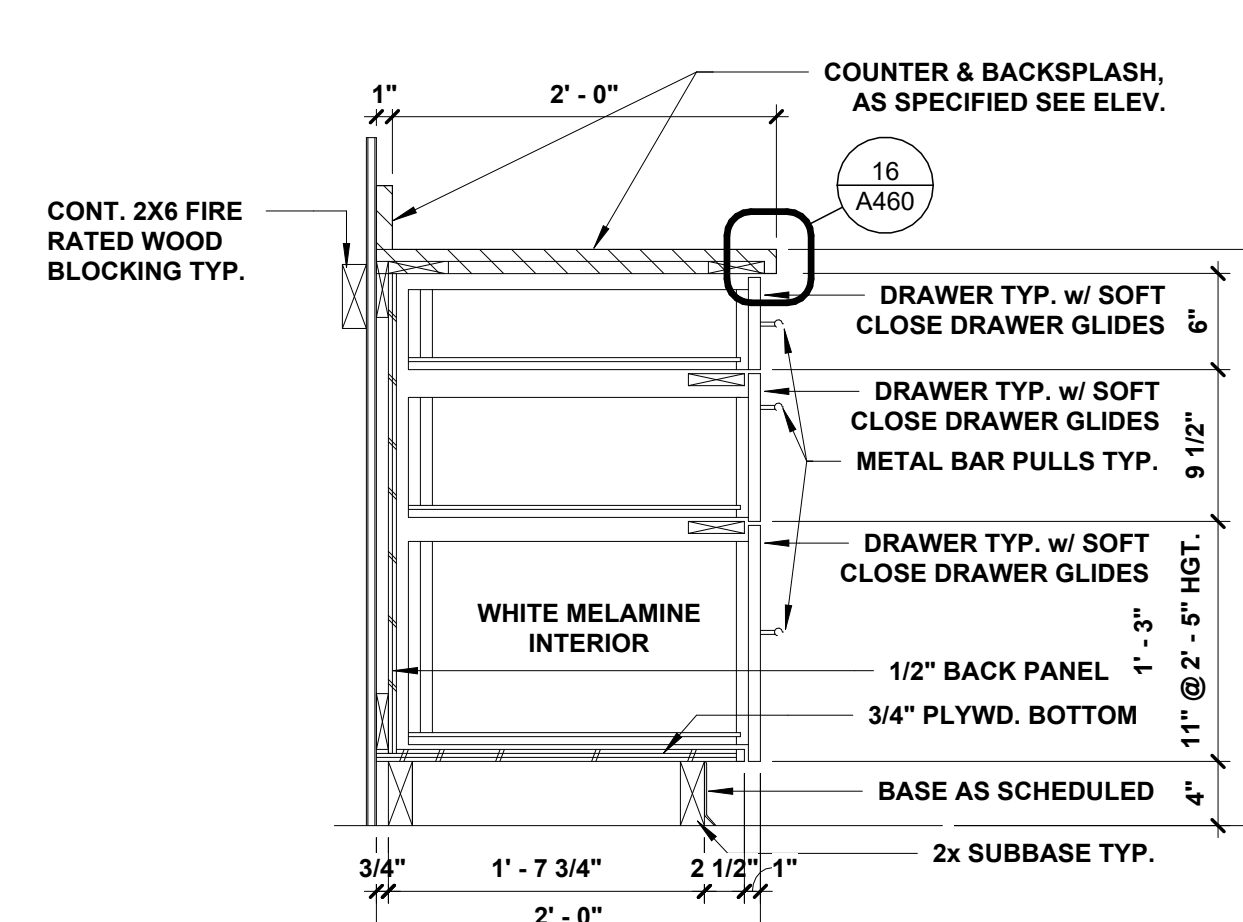
**MILLWORK DETAIL - MICROWAVE BASE CAB.**  
10 1" = 1'-0"



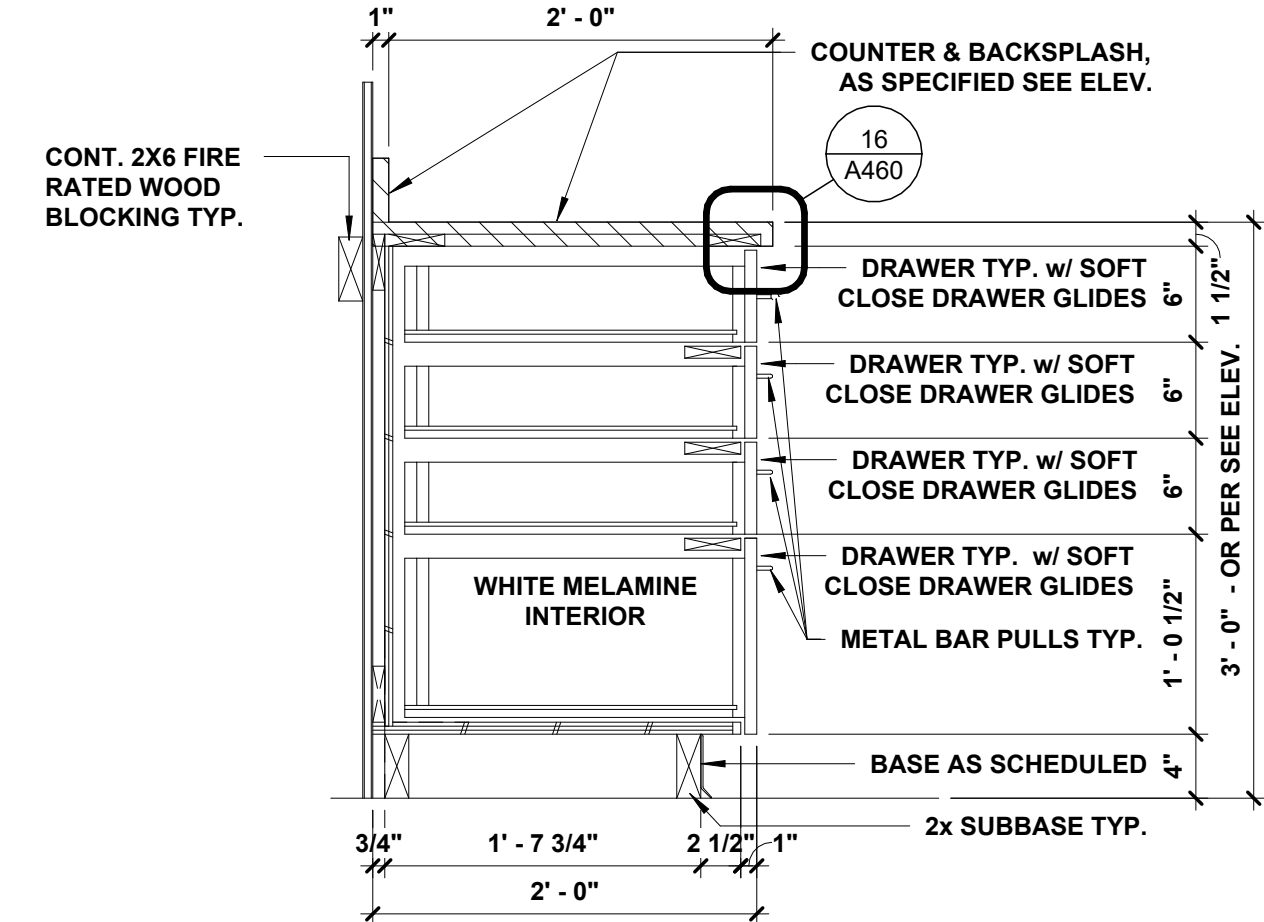
**MILLWORK DETAIL - BASE CABINET -  
DOOR**



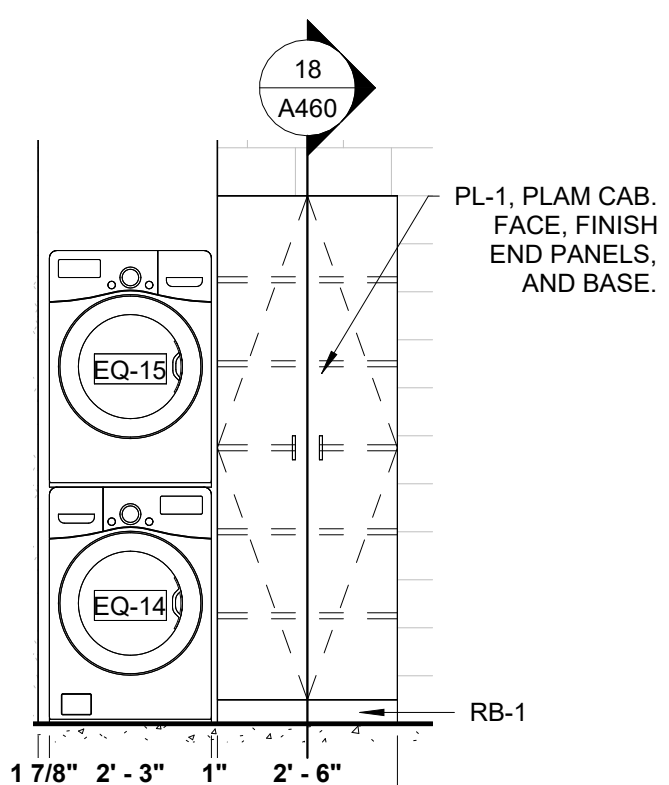
**MILLWORK DETAIL - BASE CABINET - SINK  
& DOOR**



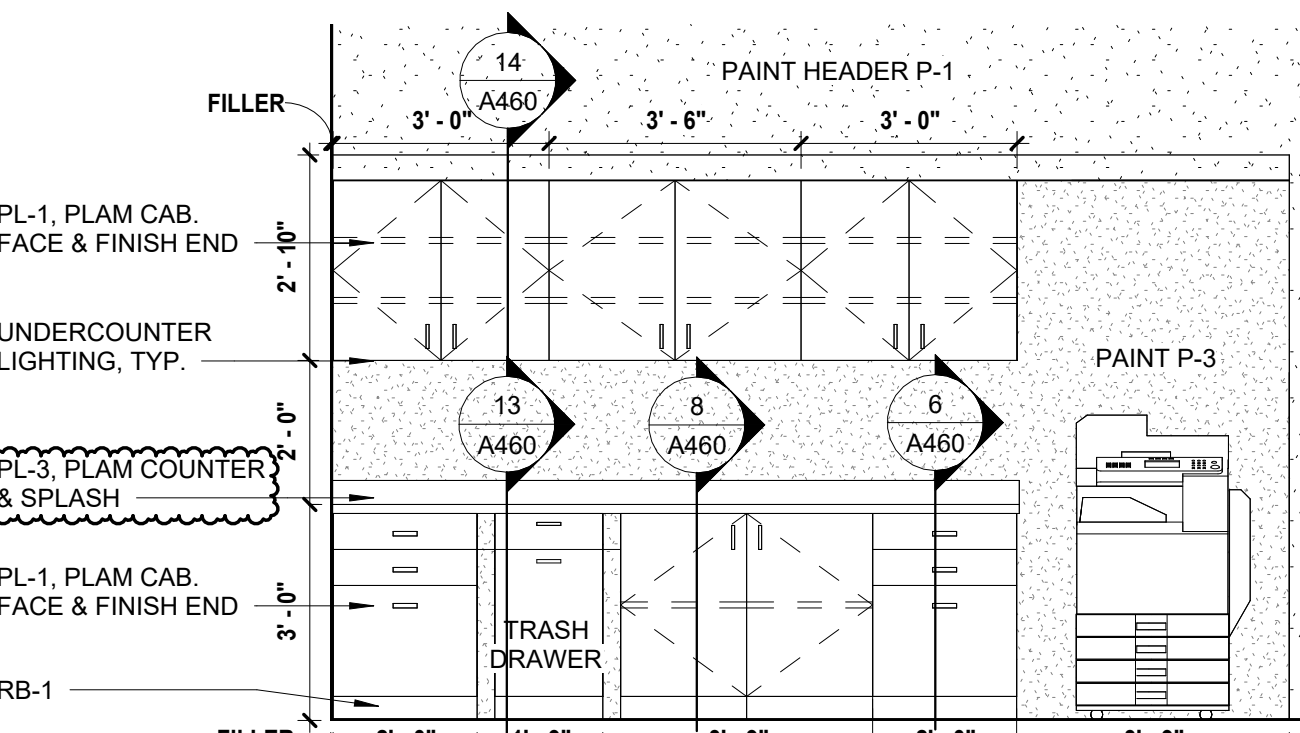
**MILLWORK DETAIL - BASE CABINET - 3**  
**DRAWER**  
1" = 1'-0"



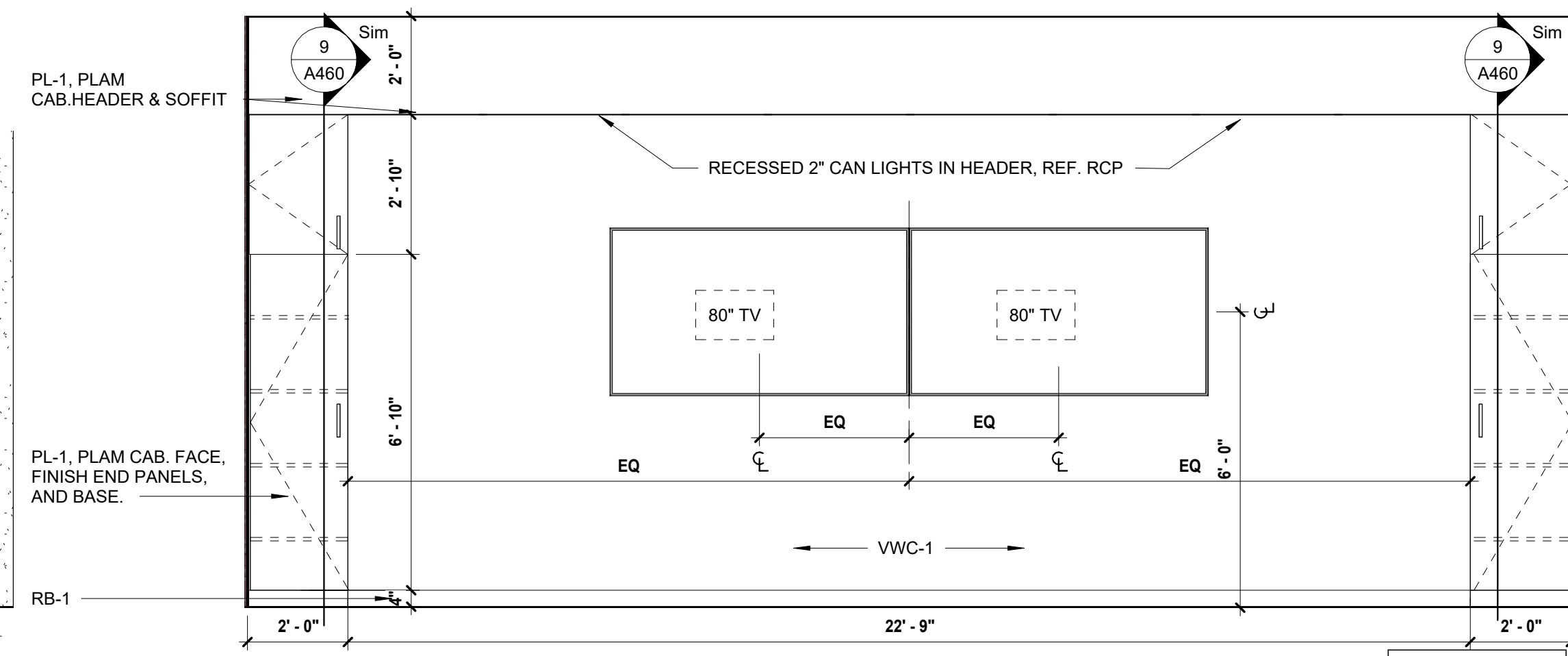
**MILLWORK DETAIL - BASE CABINET 4  
DRAWER**  
1" = 1'-0"



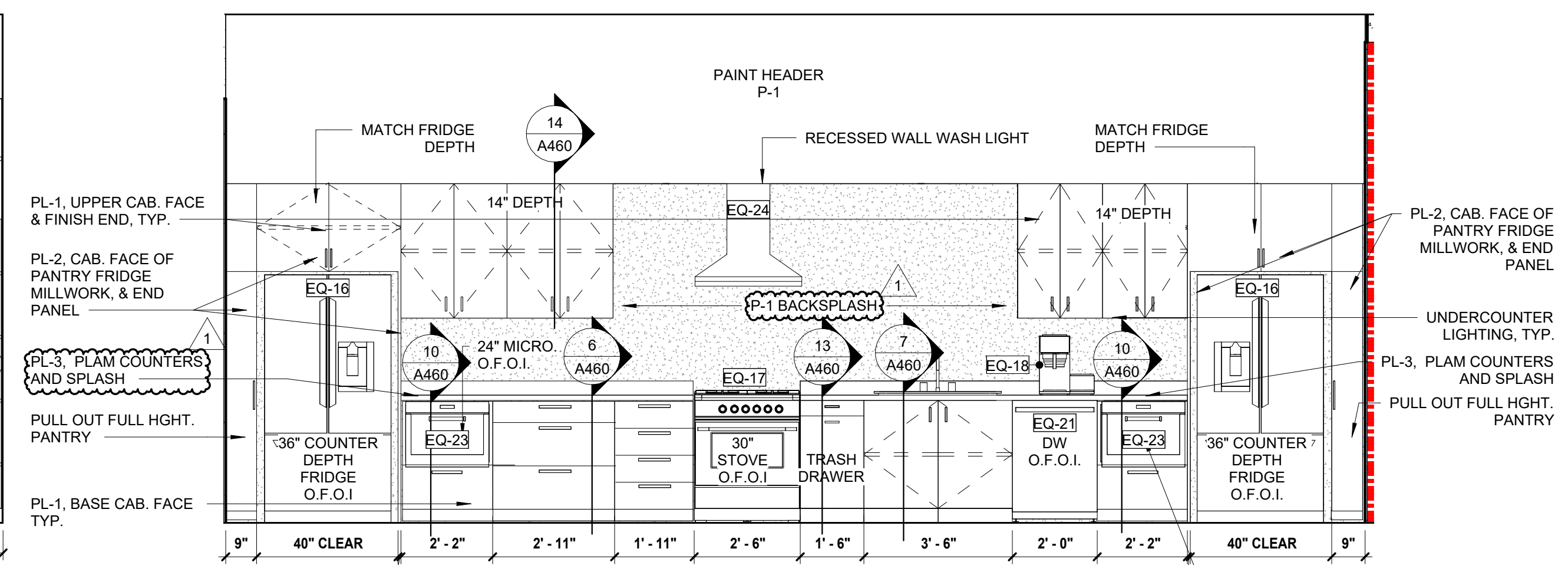
**4 LAUNDRY AREA**  
3/8" = 1'-0"



**3 PRINT AREA ELEVATION**  
3/8" = 1'-0"



**2 BREAKROOM ELEVATION**  
3/8" = 1'-0"



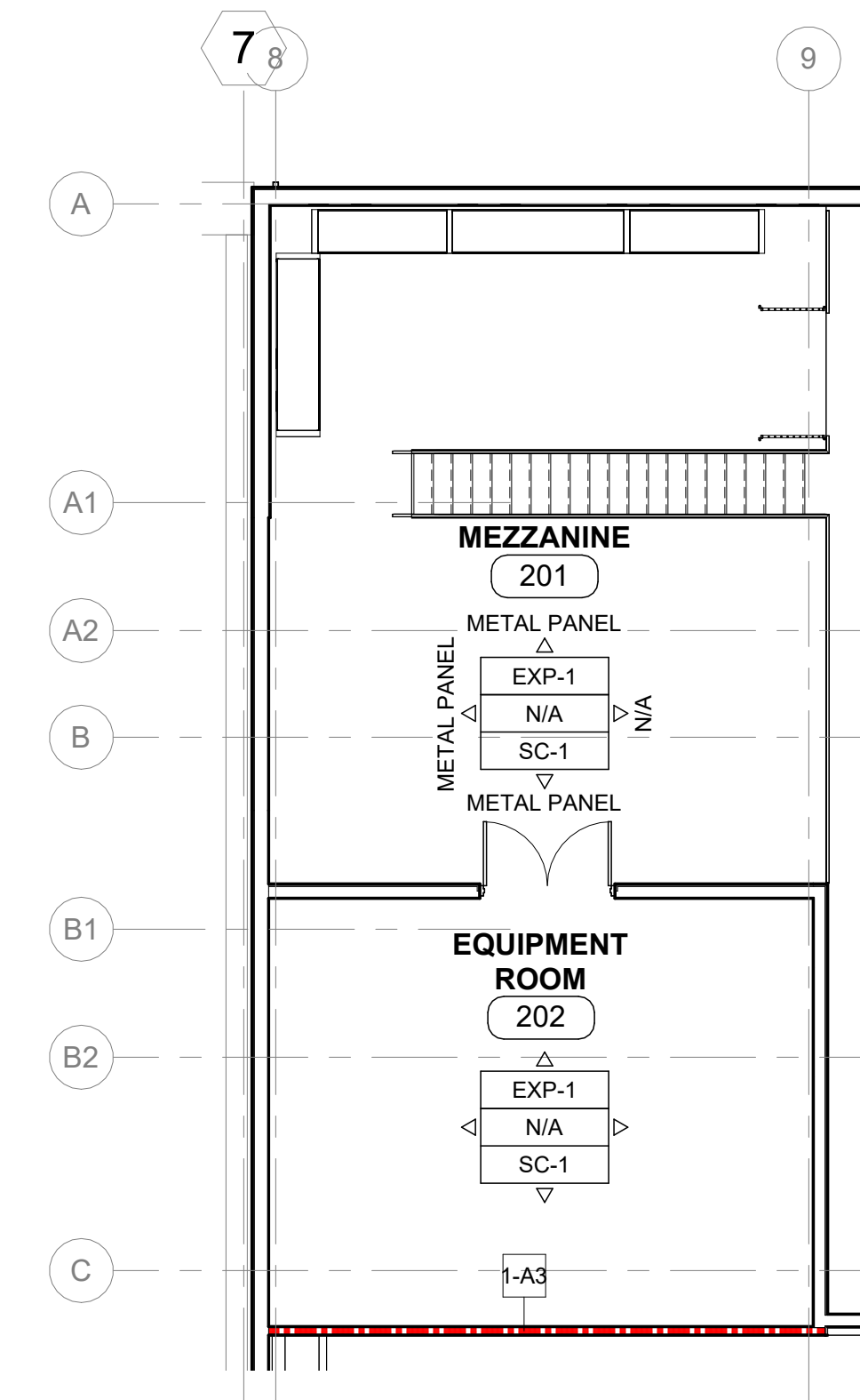
1 **BREAKROOM ELEVATION**  
3/8" = 1'-0"



03/2025 13:57 PM Autodesk AutoCAD Electrical Maintenance Shop 14.096, English Dwg, Maintenance Shop.dwg

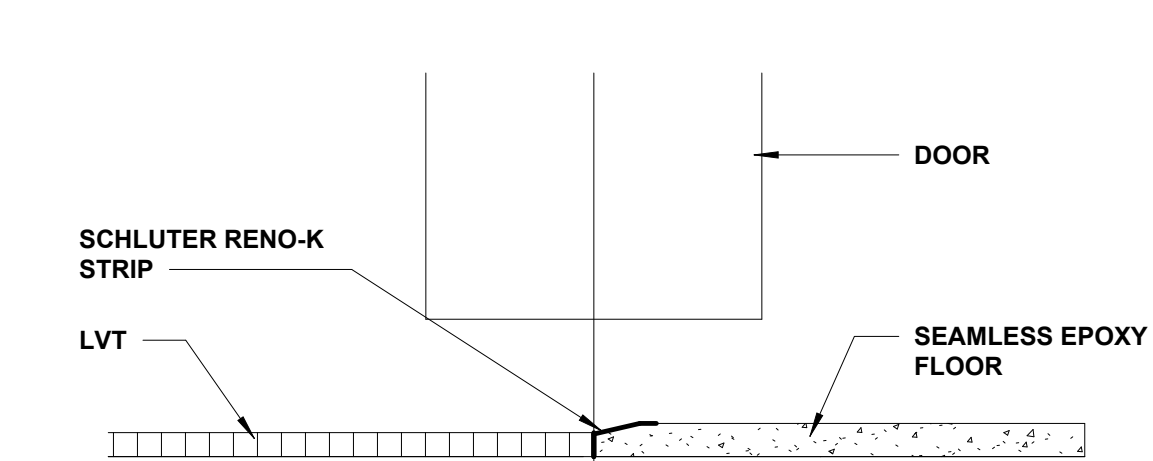


**5 MEZZANINE FINISH PLAN**  
1/8" = 1'-0"

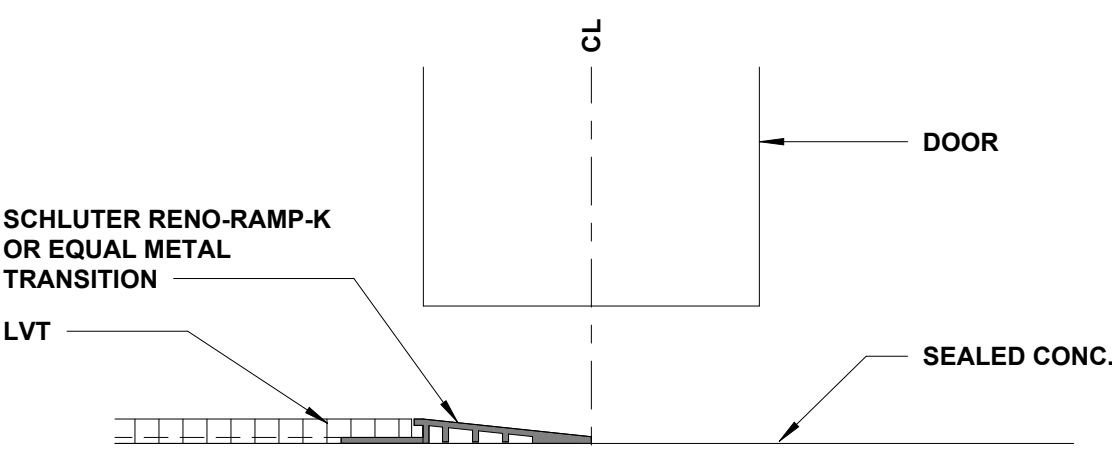


2. PRODUCT LEGEND									
KEY	GENERIC DESCRIPTION	MANUFACTURER	STYLE	COLOR	FINISH	DIMENSIONS	LAYOUT	REMARKS	
BASE									
RB-1	RESILIENT BASE	JOHNSONITE	4" RUBBER BASE	283 TOAST	MATTE	4"	4' LENGTHS		
CEILING									
ACT-1	ACOUSTIC CEILING TILE	USG	Mars™ High-NRC Acoustical Panels	WHITE	SMOOTH	2' X 2' TILE	15/16" GRID	Item: 88137	
EXP-1	EXPOSED INSULATION		DOUBLE LAYER ROOF INSULATION	WHITE	FLAT				
GYP-1	GYPSUM BOARD CEILING - PAINTED	SHERWIN WILLIAMS	PAINTED EP-2						
FLOOR									
SC	SEALED CONCRETE								
MILLWORK									
PL-1	PLASTIC LAMINATE	WILSONART	PARK ELM	7967K-12	SOFT GRAIN			MILLWORK	
PL-2	PLASTIC LAMINATE	FORMICA	FENIX	VERDE COMODORO	MATTE FINISH			BREAKROOM MILLWORK	
PL-3	PLASTIC LAMINATE	WILSONART	5012K-19	MAGNOLIA	SMOOTH				
TRANSITION STRIP									
TS-1	METAL TRANSITION STRIP	SCHLUTER	JOLLY	STAINLESS STEEL				RESTROOM	
TS-2	METAL TRANSITION STRIP	SCHLUTER	SCHIENE	STAINLESS STEEL				RESTROOM	
TS-3	METAL TRANSITION STRIP	SCHLUTER	RENO RAMP-K	STAINLESS STEEL					
TS-4	METAL TRANSITION STRIP	SCHLUTER	RENO-K	STAINLESS STEEL					
WALL									
CG-1	CORNER GUARD	CONSTRUCTION SPECIALTIES	VA SERIES - VA-034N	COLOR TBD	PLASTIC	6"			
EP-1	EPOXY PAINT	SHERWIN WILLIAMS	SW 6187	ROSEMARY	EGGSHELL			BATHROOM SINK WALL	
EP-2	EPOXY PAINT	SHERWIN WILLIAMS	SW 7667	ZIRCON	EPOXY				
P-1	INTERIOR WALL PAINT	SHERWIN WILLIAMS	SW 7015	REPOSE GREY	EGGSHELL			CEILING	
P-2	INTERIOR WALL PAINT	SHERWIN WILLIAMS	SW 7024	FUNCTIONAL GREY	EGGSHELL				
P-3	INTERIOR WALL PAINT	SHERWIN WILLIAMS	SW 6187	ROSEMARY	EGGSHELL				
P-4			OSHA STANDARD SAFETY YELLOW	YELLOW					
P-5	INTERIOR DOOR FRAME PAINT	SHERWIN WILLIAMS	SW 7019	GAUNTLET GREY	SEMI-GLOSS				
VWC-1	VINYL WALLCOVERING	MOMENTUM	CUSTOM WALL GRAPHIC	VINYL				BREAK ROOM FEATURE WALL	
WINDOW									
RS-1	ROLLER SHADE	DRAPER	MANUAL ROLLER SHADE	SOLAR 3% - CHARCOAL		FIELD VERIFY			

**3 TS-4 - LVT TO SEAMLESS EPOXY FLOOR**  
FULL SCALE



**2 TS-3 FLOOR TRANSITION - LVT to CONCRETE**  
12" = 1'-0"



FLOOR PATTERN LEGEND	
FLOORING MATERIALS	
	SC-1: SEALED CONCRETE
	LVT-1: LUXURY VINYL TILE
	LVT-2: LUXURY VINYL TILE
	EP-1: TROWELED ON EPOXY FLOORING
	TS-3: CONCRETE TO LVT FLOOR TRANSITION
	TS-4: LVT TO EP FLOOR TRANSITION

- SHEET NOTES**
- CONTRACTOR TO PROVIDE SAMPLES OF ALL SELECTED MATERIALS FOR ARCHITECT'S FINAL COLOR SELECTION AND APPROVAL PRIOR TO ORDERING. ALL FINISH SELECTIONS ARE SUBJECT TO CHANGE UNTIL FINAL DRAWINGS ARE ISSUED.
  - ALL TRANSITION DETAILS TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING. SEE FLOOR PATTERN PLANS FOR LOCATIONS.
  - ALL MEN'S & WOMEN'S RESTROOMS HAVING SOLID SURFACE COUNTERTOPS TO RECEIVE UNDERMOUNTED SEAMLESS SOLID SURFACE ADA BOWLS, BY1512, COLOR: LINEN WHITE. CONTRACTOR TO VERIFY WITH SUB, CONT. OR WINDOW SHADE SUPPLIER ALL DIMENSIONS, SIZES, POWER REQUIREMENTS, CONTROL AND MOUNTING REQUIREMENTS FOR ALL WINDOW SHADES MECH. AND WINDOW TREATMENT. LOCATIONS TO BE FOUND ON RCP.
  - ALL WINDOW SILLS TO BE SOLID SURFACE, PL-3.
  - CONTRACTOR TO VERIFY ALL WIRING REQUIRED FOR ALL AUTOMATED SHADES AND CONTROLS PRIOR TO GWB FINISH OUT.
  - ACCENT PAINT LOCATIONS AS INDICATED ON PAINT PLANS. WALL TRANSITION STRIPS LOCATED ON THIS PLAN.
  - CORNER GUARDS, CG-1, TO BE INSTALLED ON ALL CORNERS. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED, COLOR: P-5 UNLESS OTHERWISE NOTED ON PAINT PLANS. ACCENT FRAME COLORS TO BE FOUND ON PAINT PLANS.
  - ALL EXPOSED METAL STRUCTURE TO BE PAINTED, COLOR: P-5 UNLESS OTHERWISE NOTED ON PAINT PLANS.
  - ALL FLOORING JOINTS TO ALIGN WITH CONTROL JOINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH STRUCTURAL DRAWINGS.
  - ALL ELECTRICAL DEVICES, SWITCHES, AND OUTLET COVERS TO BE COLOR: WHITE.
  - EXPANSION JOINT LOCATIONS TO BE VERIFIED WITH STRUCTURAL DRAWINGS.
  - REFER TO RCP FOR LOCATIONS FOR GWB FURR DOWNS. ALL FURR DOWNS TO RECEIVE PAINT OR WC AS SCHEDULED. COORDINATE ALL CEILING MATERIALS AND SIZES WITH RCP LAYOUT.
  - ALL SOLID SURFACE COUNTER WITH A 4" BACKSPLASH ARE TO BE INTEGRAL VERTICAL AND HORIZONTAL SURFACES. LOCATION OF GROMMETS ON HORIZONTAL SURFACES TO BE VERIFIED BY ARCHITECT PRIOR TO INSTALL.
  - GC TO PROVIDE BLOCKING FOR ALL TVs AND WALL-HUNG ELECTRONIC EQUIPMENT. DO NOT PAINT EXPOSED METAL PANEL.



**CRAIGHEAD ELECTRIC**  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

CONTENTS

REVISIONS

24-096  
JOB. NO.  
02.14.2025  
DATE

ISSUE  
A610

SHEET



RACKING SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	COUNT	COMMENTS
FX-1	SHURRACK OPEN SHELVING	SHURE	14	1	
FX-2	SHURRACK OPEN SHELVING	SHURE	16	1	
FX-3	SHURRACK OPEN SHELVING	SHURE	16A	17	
FX-4	HIGH-DENSITY HEAVY DUTY DRAWER UNIT	SHURE	316	3	
FX-5	HIGH-DENSITY HEAVY DUTY DRAWER UNIT	SHURE	316A	5	
FX-6	HIGH-DENSITY HEAVY DUTY DRAWER UNIT	SHURE	314A	5	
FX-7	SHURRIVET RACK OPEN SHELVING	SHURE	V504A	2	
FX-8	SHURRIVET RACK OPEN SHELVING	SHURE	V507A	1	
FX-9	SHURRIVET RACK OPEN SHELVING	SHURE	V507	1	
FX-10	TIRE RACKS			6	

EQUIPMENT SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL	OFCI	OFOI	CFCI	COMMENTS		
EQ-1	VERTICAL AIR COMPRESSOR	QUINCY			X				
EQ-2	TRASH CART	ULINE			X				
EQ-3	30K 4-POST / ALIGNMENT LIFT	CHALLENGER LIFTS	4030		X				
EQ-4	MODULAR INGROUND LIFT	ROTARY LIFT	MOD235-18	X			REF. NOTE 5		
EQ-5	MODULAR INGROUND LIFT POWER UNIT	Rotary Lift	PLC Power Unit	X			REF. NOTE 5		
EQ-6	WELDER W/ RUNNING GEAR	MILLER			X				
EQ-7	FIRE CABINET	ULINE	H-1565		X				
EQ-8	INDUSTRIAL TABLE (90"W X 30"D)				X				
EQ-9	POWDER COAT OVEN (48"W X 48"D X 60"H)				X				
EQ-10	INDUSTRIAL SHELVING (90"W X 24" D)	Southwest Solutions Group, SPA	WS		X				
EQ-11	OIL TANKS				X				
EQ-12	USED OIL CONTAINER	ROTH	DWT 1500L		X				
EQ-13	FRONT LOAD WASHER	SPEED QUEEN	SF7007WE		X				
EQ-14	FRONT LOAD DRYER	SPEED QUEEN	SF7007WE		X				
EQ-15	FRENCH DOOR REFRIGERATOR	KITCHENAID	KWC302ESS		X				
EQ-16	30" ELECTRIC COOKTOP & DOUBLE OVEN	KITCHENAID	KFED500ESS		X				
EQ-17	COFFEE MAKER	BUNN	H-10899		X				
EQ-18	RELOCATED ICE MACHINE				X				
EQ-19	COPIER MACHINE - RELOCATED				X				
EQ-20	24" BUILT-IN DISHWASHER	KITCHENAID	KDTE204KPS		X				
EQ-21	VERSAMAX PHENOLIC LOCKERS- 18" X 18"	LIST INDUSTRIES			X				
EQ-22	BUILT-IN MICROWAVE OVEN	KITCHENAID	KMBD104GSS		X				
EQ-23	RANGE HOOD	VENTAHOOD	PDL14130		X				
EQ-24	OVERHEAD SINGLE GIRDER TRAVELING CRANE	KONECRANES	101	X			REF. NOTE 6		
EQ-25	FLAT SCREEN TV		100124MM-01		X				
EQ-26	FLAT SCREEN TV		80" SHOWN		X		OWNER TO PROVIDE BRACKET & DEVICE		
EQ-27	FLAT SCREEN TV		80" SHOWN		X		OWNER TO PROVIDE BRACKET & DEVICE		
EQ-28	HIGH PRESSURE CLEANING SYSTEM	PSC CLEAN	ES429K424A		X		REF. NOTE 7		

- SHEET NOTES
1.

NO FINISH SUBSTITUTIONS MAY BE MADE UNLESS APPROVED BY ARCHITECT.
2.

NOTIFY ARCHITECT IMMEDIATELY OF ITEMS WITH LONG LEAD TIMES.
3.

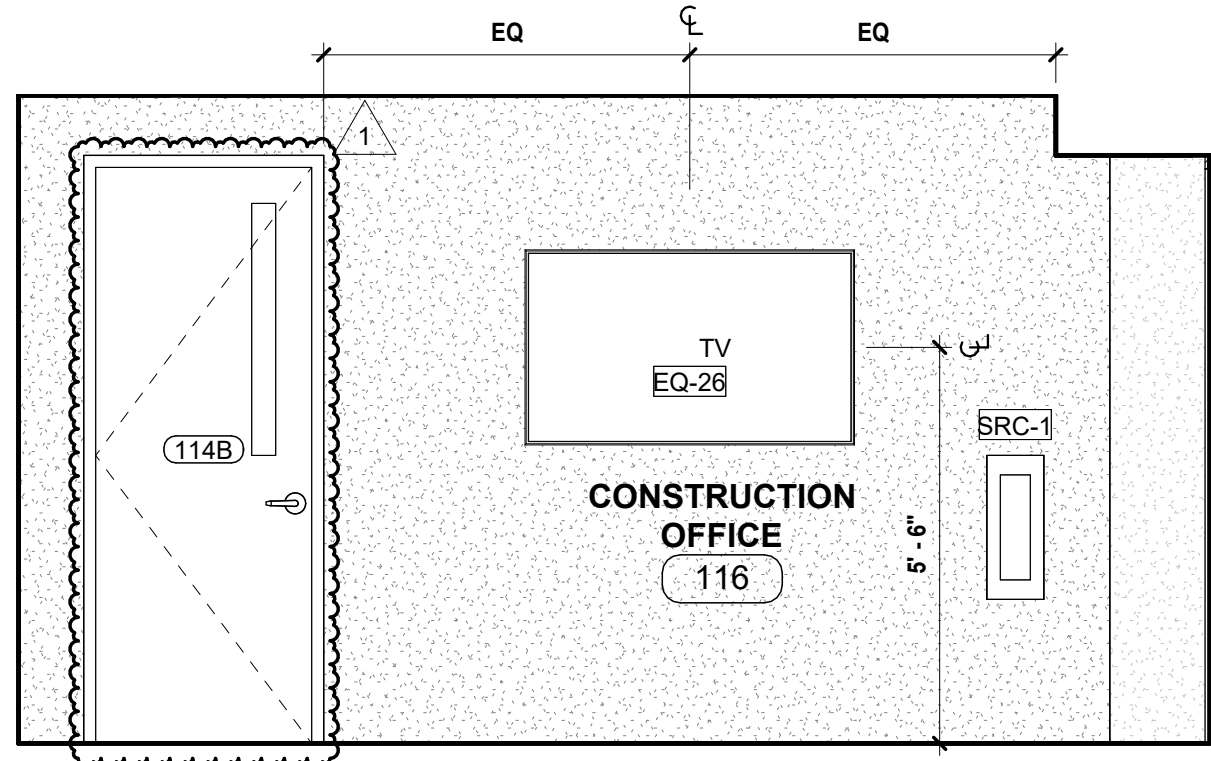
CONTRACTOR TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF ALL FLOORING, AND FINISHES. GROUT LINES FOR TILE BASE AND FLOOR TILE TO ALIGN.
4.

FOR EQ-4 & EQ-5, GC TO COORDINATE CONCRETE WORK, CONDUIT, REBAR REQ. AND ALL ASSOCIATE WORK W/ IN-GROUND POST SUPPLIER. CONTACT MARK McDANIEL W/ MIDANIEL EQUIPMENT CO. AT 501-951-0431 FOR COORDINATION.
5.

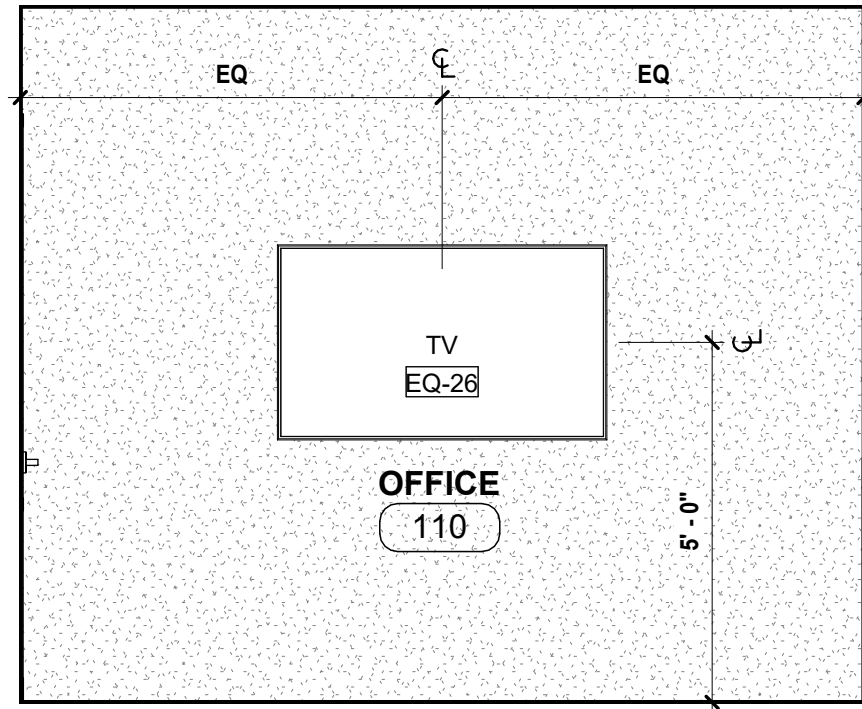
FOR EQ-25 GC TO COORDINATE FOUNDATION WORK, CONDUIT, REBAR REQ. AND ALL ASSOCIATE WORK W/ IN-GROUND POST SUPPLIER. CONTACT MARK MOORE W/ KONECRANES, INC. AT 615-232-8513 FOR COORDINATION.
6.

FOR EQ-28 GC TO COORDINATE FOUNDATION WORK, CONDUIT, PLUMBING ROUTING, REBAR REQ. AND ALL ASSOCIATE WORK W/ IN-GROUND REQUIREMENTS. REF. PLUMBING FOR SCOPE. CONTACT RANDALL GODWIN W/ WHITING SYSTEMS AT 870-323-0276 FOR COORDINATION.
7.

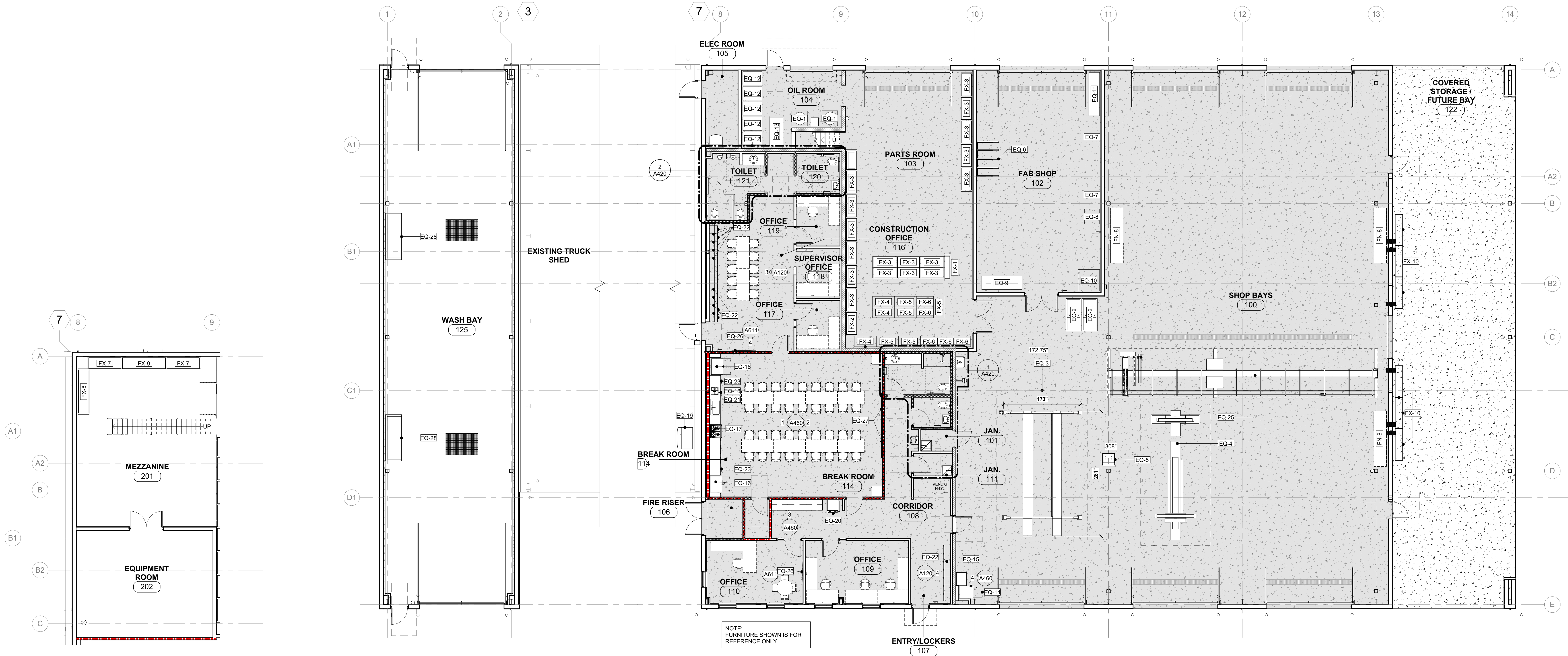
FURNITURE ON PLAN IS FOR REFERENCE ONLY. OWNER WILL PURCHASE OUTSIDE OF CONSTRUCTION SCOPE.



4 CONSTRUCTION OFFICE ELEVATION  
3/8" = 1'-0"



3 OFFICE ELEVATION  
3/8" = 1'-0"



NOTE:  
FURNITURE SHOWN IS FOR  
REFERENCE ONLY

FURNITURE, FIXTURES AND EQUIPMENT  
PLAN - MEZZANINE  
1/8" = 1'-0"

FURNITURE, FIXTURES AND EQUIPMENT PLAN  
1/8" = 1'-0"



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

FURNITURE, FIXTURES, AND  
EQUIPMENT PLAN AND  
SCHEDULES

CONTENTS

REVISIONS

NO.	DATE	DESCRIPTION
1	04/03/25	POST BID ADD #1

24-096

JOB. NO.

02.14.2025

DATE

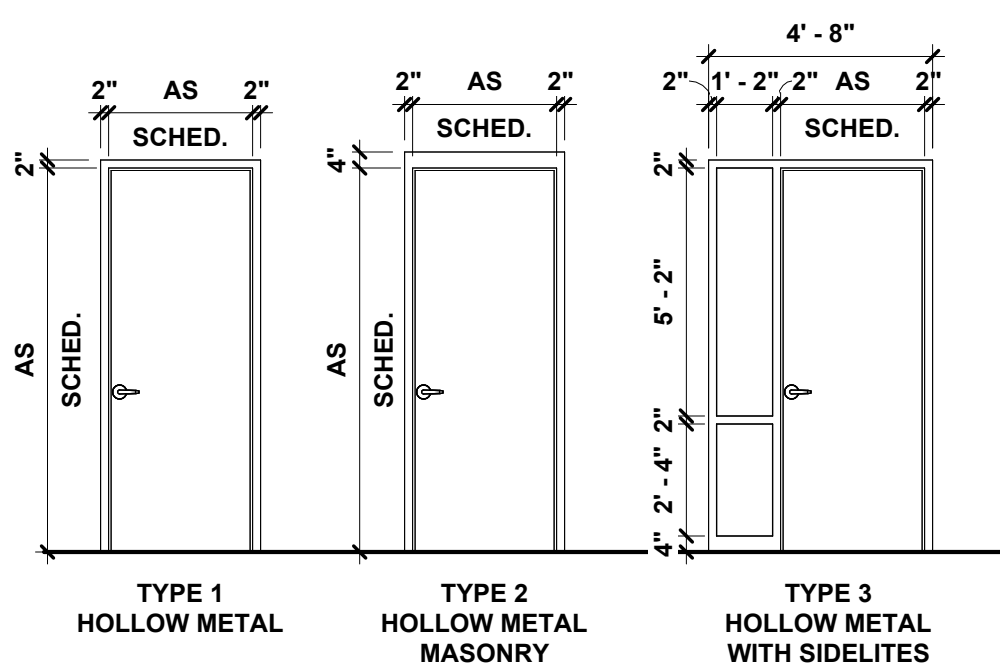
ISSUE

A611

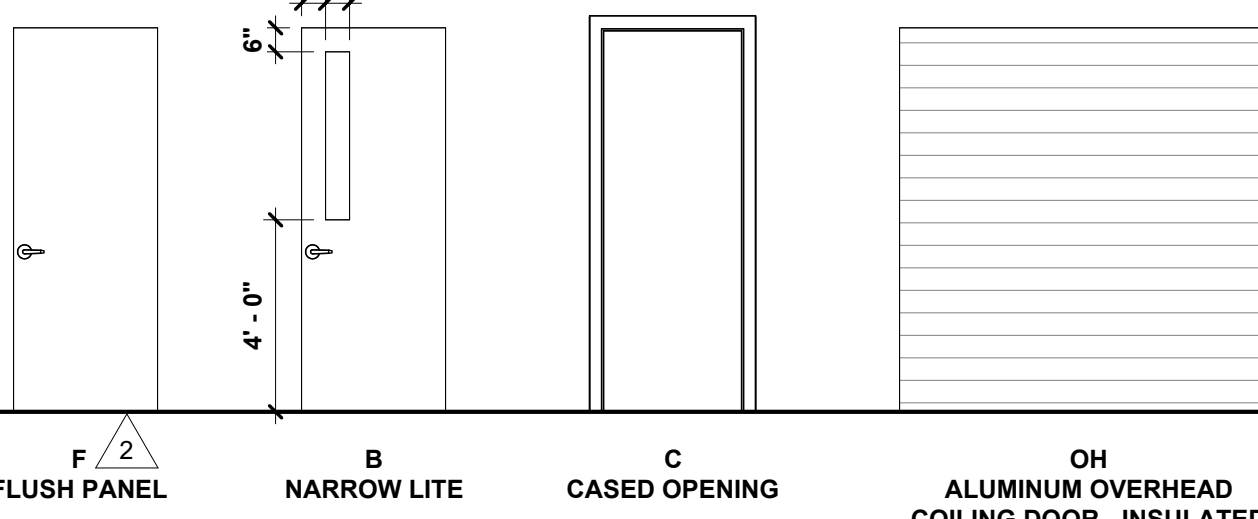
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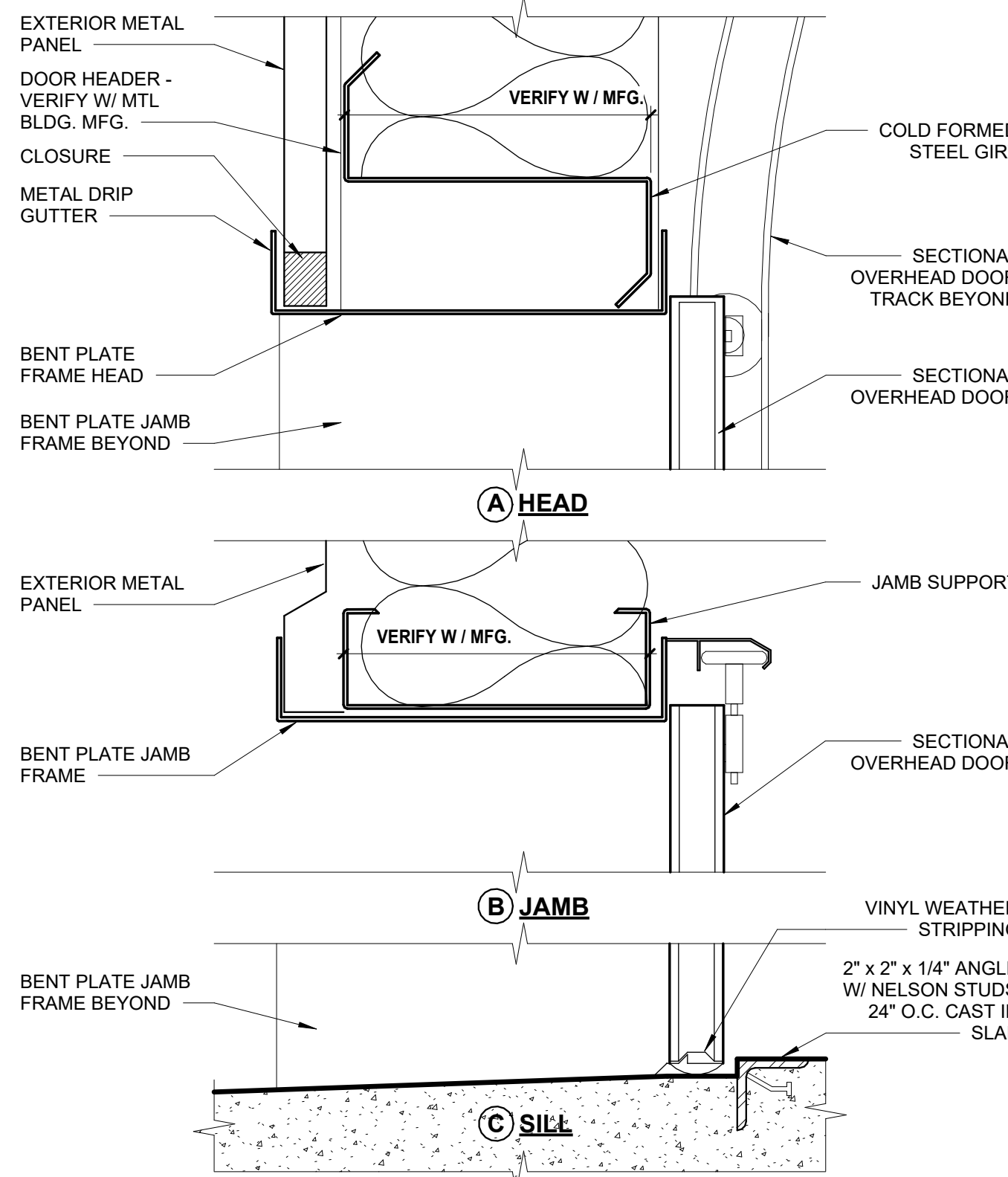
4/20/2025 2:45:27 PM Autodesk Docs\Copyrighted Electric Maintenance Shop 12.006\_Engineered Elec Maintenance Shop.rvt



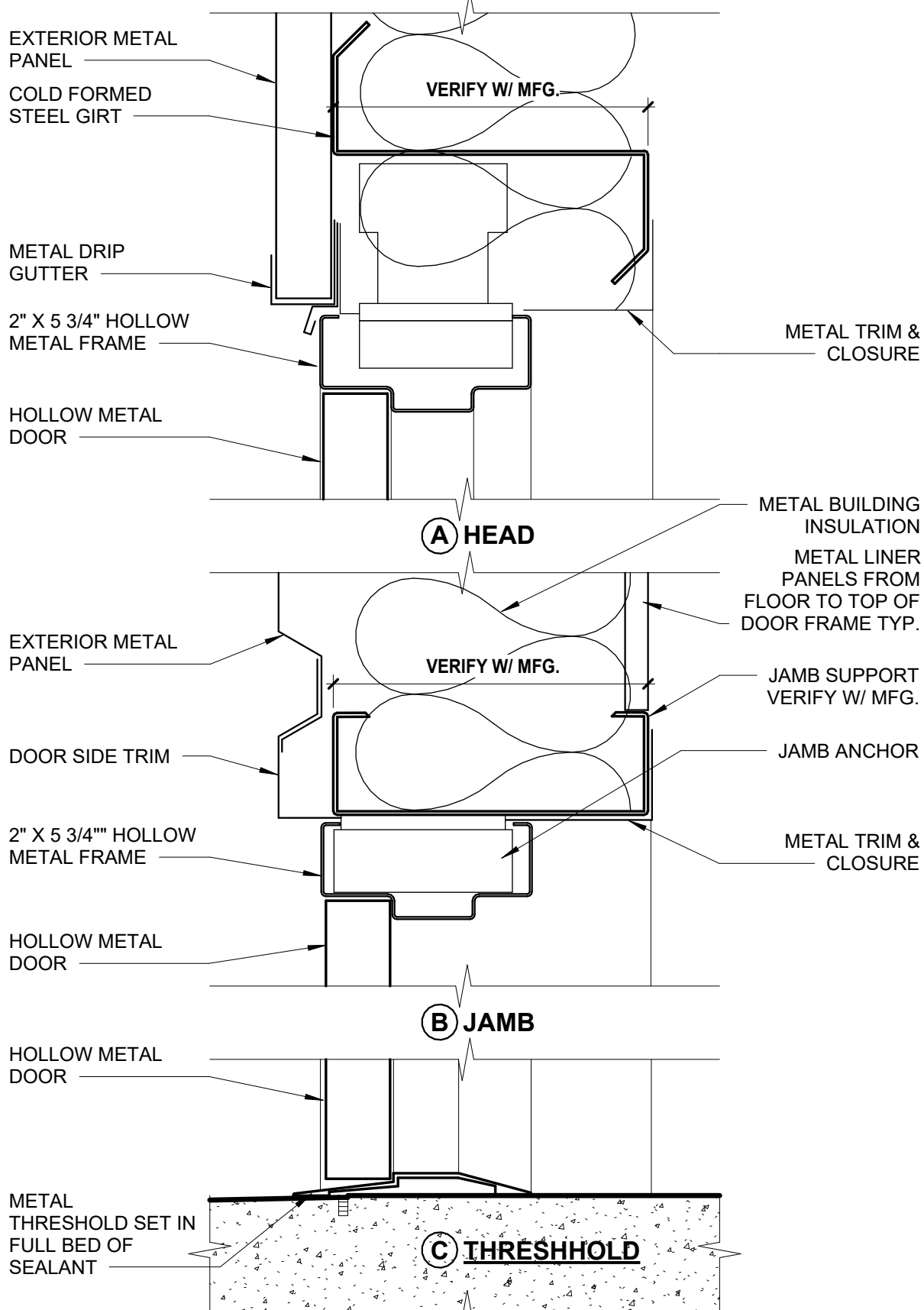
FRAME LEGEND



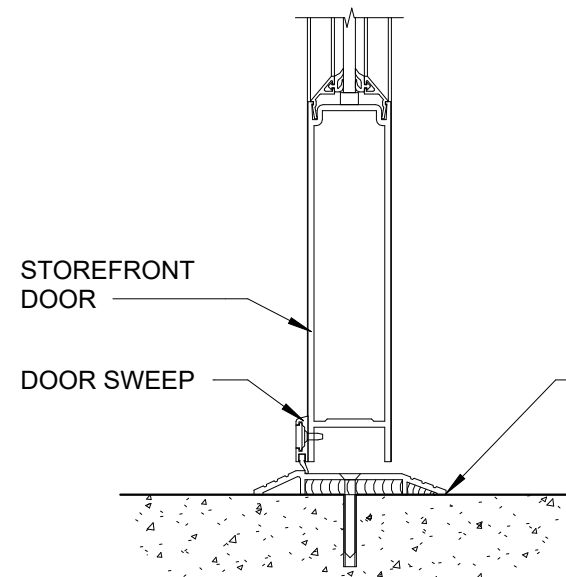
DOOR LEGEND



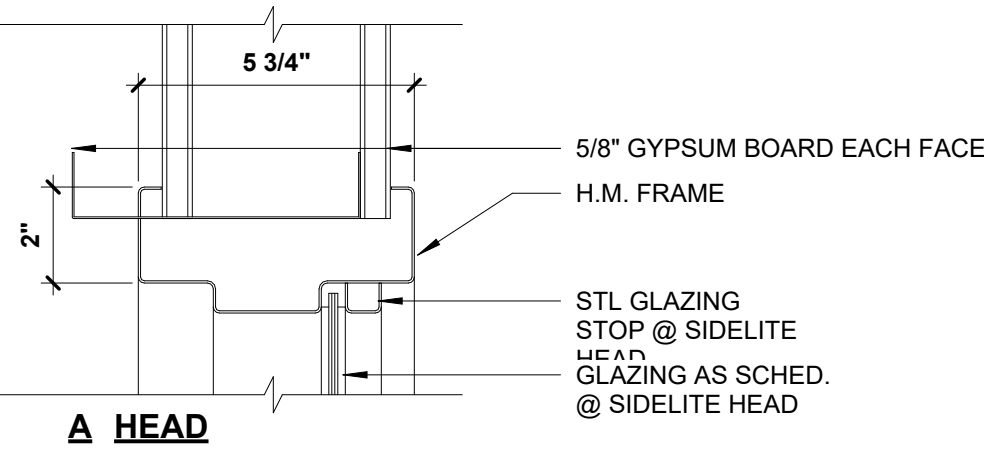
9 DETAIL @ SECTIONAL OVERHEAD DOOR  
3" = 1'-0"



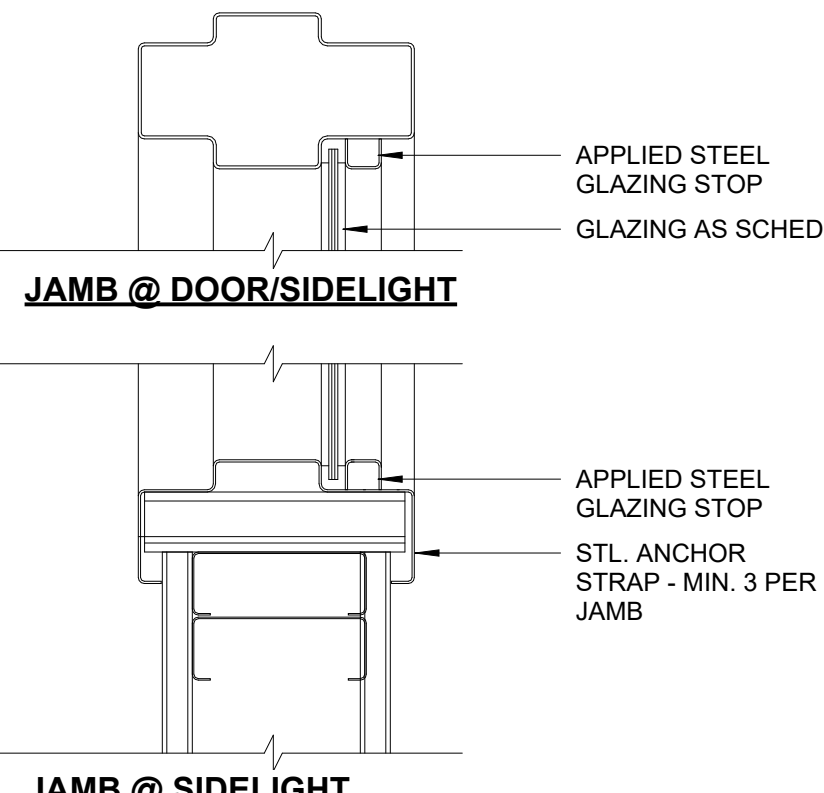
8 DETAIL @ EXTERIOR HM DOOR FRAME  
3" = 1'-0"



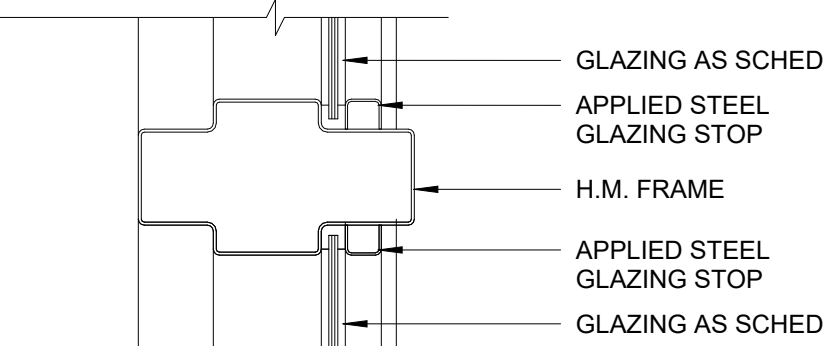
12 THRESHOLD @ STOREFRONT  
3" = 1'-0"



A HEAD



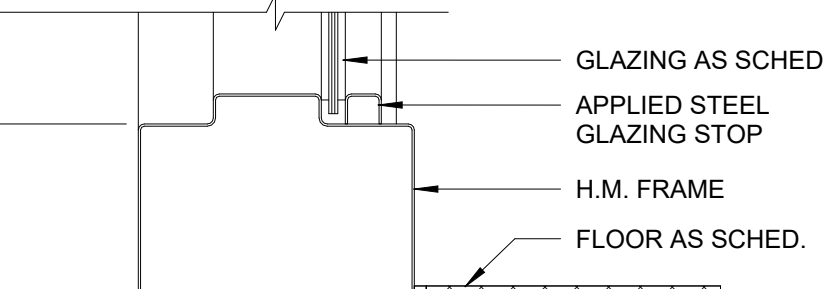
JAMB @ DOOR/SIDELIGHT



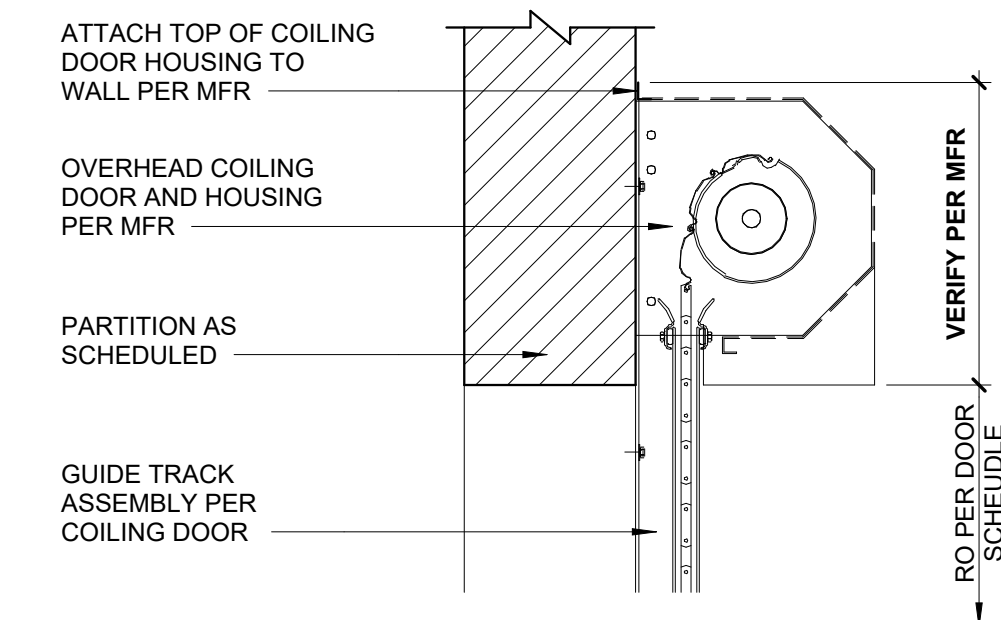
JAMB @ SIDELIGHT



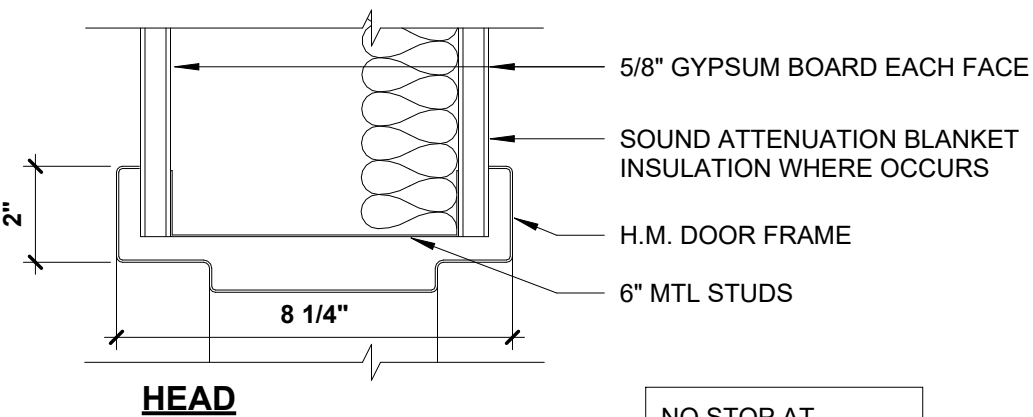
D HORIZ MULLION



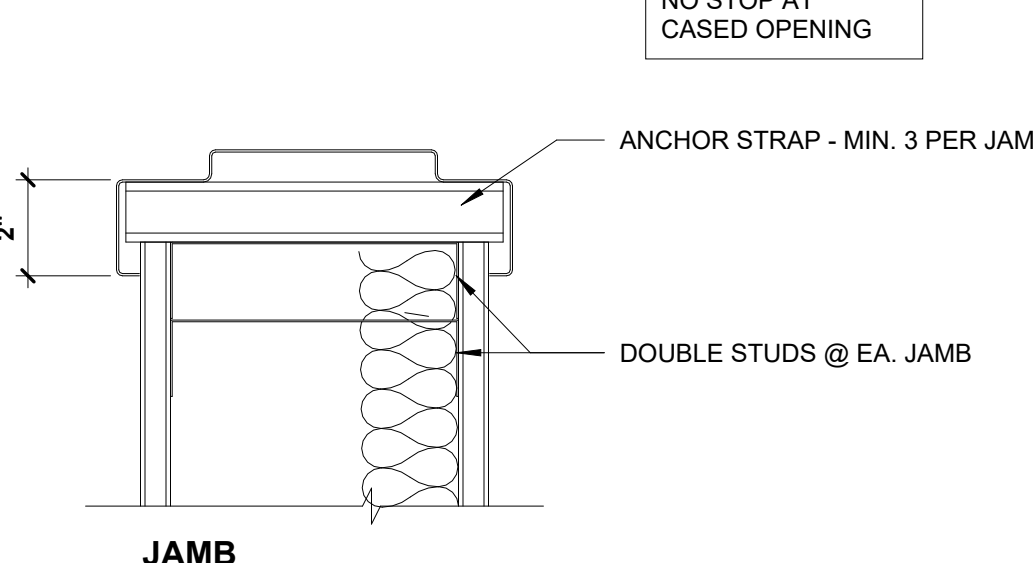
7 DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 3 5/8" MTL STUDS W/ SIDELITE  
3" = 1'-0"



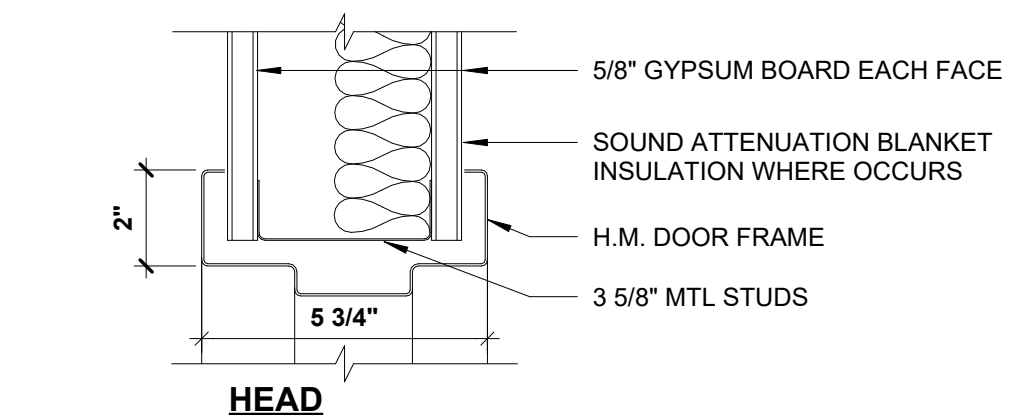
11 HEAD  
1 1/2" = 1'-0"



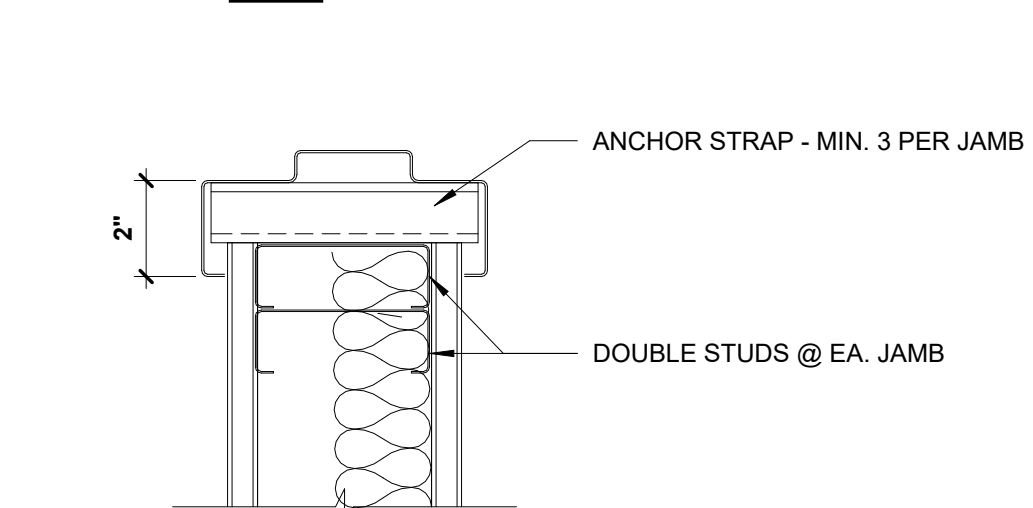
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6 JAMB DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 6" MTL STUDS  
3" = 1'-0"



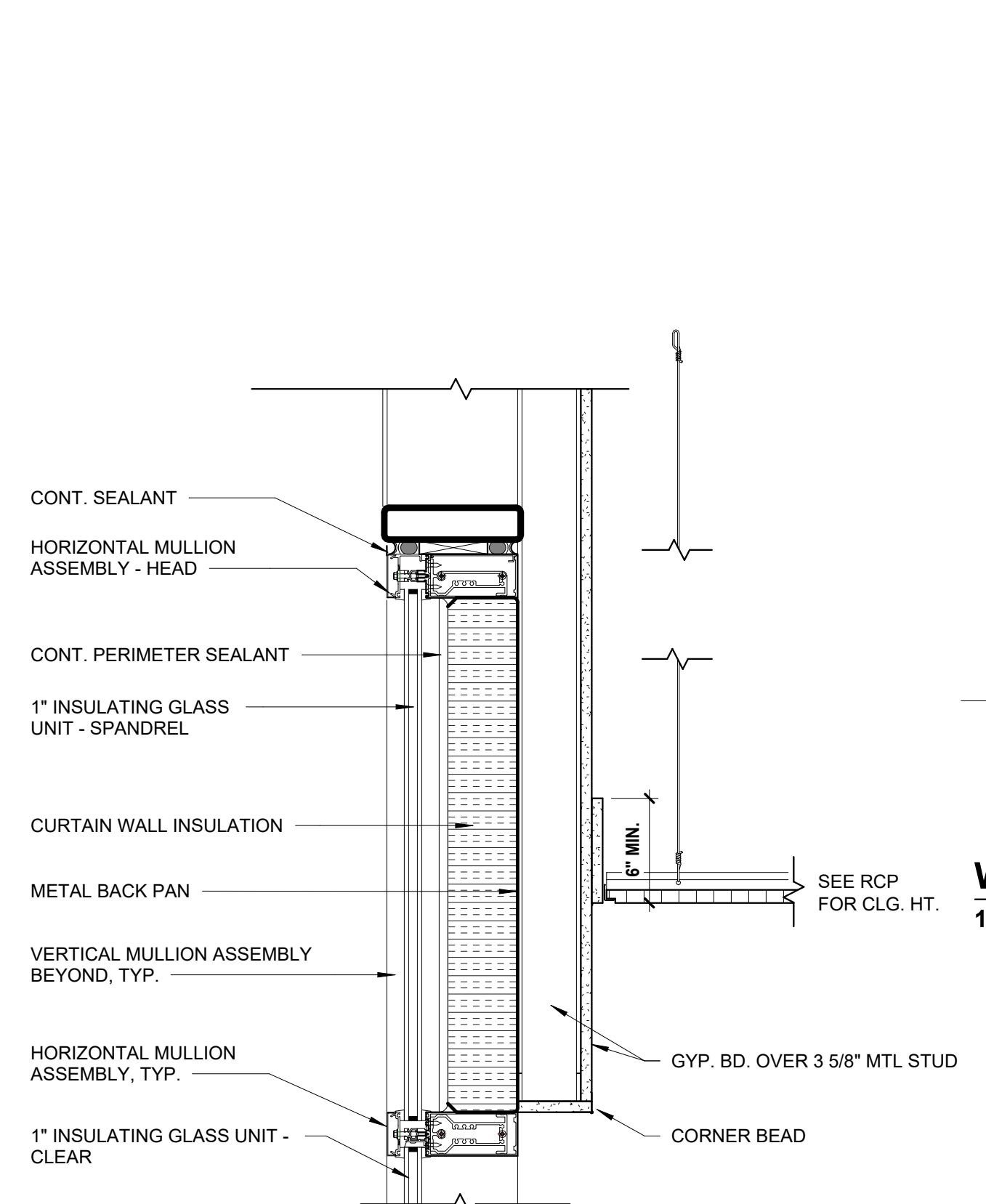
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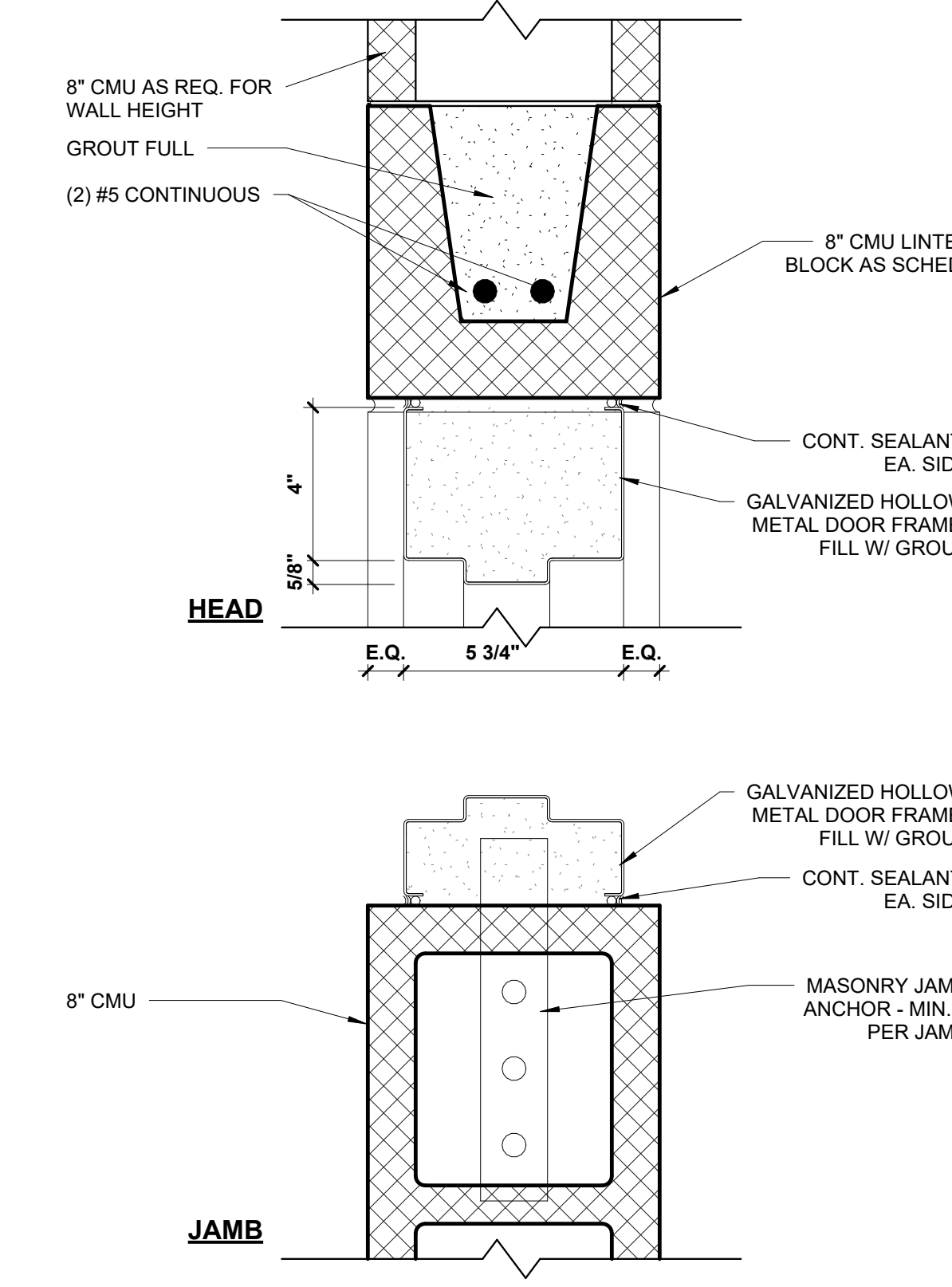
5 JAMB DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 3 5/8" MTL STUDS  
3" = 1'-0"

DOOR SCHEDULE																	
DOOR NUMBER	ROOM NAME	TYPE	WIDTH	DOOR INFORMATION			FRAME INFORMATION			HEAD	JAMB	SILL	HARDWARE	FIRE RATING	ACCESS CONTROL	COMMENTS	
				HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL								FINISH
100A	SHOP BAYS	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
100B	SHOP BAYS	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
100C	SHOP BAYS	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
100D	SHOP BAYS	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	8/A620	8/A620	8/A620	C205T	Yes	INSULATED	
100E	SHOP BAYS	OH	8'- 0"	10'- 0"	2"	---	---	---	---	---	---	---	---	001	---	INSULATED	
100F	SHOP BAYS	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	8/A620	8/A620	8/A620	C205T	Yes	INSULATED	
100G	SHOP BAYS	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
100H	SHOP BAYS	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
101A	SHOP BAYS	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	2	HM	P-5	4/A620	4/A620	2/A620	203	---	---	
102A	FAB SHOP	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
102B	FAB SHOP	F	6'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	8/A620	8/A620	---	510CT	---	---	
103A	PARTS ROOM	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
103B	PARTS ROOM	F	6'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	8/A620	8/A620	---	510CT	---	---	
104A	OIL ROOM	OH	8'- 0"	8'- 0"	2"	---	---	---	---	---	---	---	---	001	---	INSULATED	
104B	OIL ROOM	C	4'- 0"	8'- 0"	3/4"	HM	---	1	HM	P-5	4/A620	4/A620	---	---	---	---	
104C	OIL ROOM	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	8/A620	8/A620	8/A620	205T	Yes	---	
105A	EXISTING TRUCK SHED	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	6/A620	6/A620	---	---	---	---	
105B	ELEC ROOM	C	3'- 4"	8'- 0"	---	HM	P-5	1	HM	P-5	6/A620	6/A620	---	---	---	---	
106A	FIRE RISER	F	6'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	6/A620	6/A620	2/A620	214	---	---	
107A	ENTRY/LOCKERS	SF	3'- 0"	8'- 0 1/4"	1 3/4"	ALUM & GLASS	ANODIZED	---	ALUMINUM	---	REF WINDOW ELEV.	REF WINDOW ELEV.	REF WINDOW ELEV.	C715A	Yes	---	
108A	CORRIDOR	B	3'- 0"	8'- 0"	1 3/4"	HM	P-5	2	HM	P-5	4/A620	4/A620	2/A620	501C	---	---	
109A	OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	103T	---	---	
110A	OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	103T	---	---	
111A	JAN.	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	203T	---	---	
112A	TOILET	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	341T	---	---	
113A	TOILET/SHOWER	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	341T	---	---	
114A	CORRIDOR	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	801T	45 MIN.	---	
114B	BREAK ROOM	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	801T	45 MIN.	---	
115A	STORAGE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	503T	---	---	
116A	EXISTING TRUCK SHED	B	3'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	6/A620	6/A620	---	---	---	---	
116B	CONSTRUCTION OFFICE	C	3'- 4"	8'- 0"	---	HM	P-5	1	HM	P-5	6/A620	6/A620	---	---	---	---	
117A	OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	103T	---	---	
118A	SUPERVISOR OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	103T	---	---	
119A	OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	3	HM	P-5	4/A620	4/A620	---	103T	---	---	
120A	TOILET	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	341T	---	---	
121A	CONSTRUCTION OFFICE	F	3'- 0"	8'- 0"	1 3/4"	WOOD	---	1	HM	P-5	4/A620	4/A620	---	801T	---	---	
125A	WASH BAY	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	2	HM	P-5	4/A620	4/A620	2/A620	105	---	---	
125B	WASH BAY	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
125C	WASH BAY	S1	16'- 0"	16'- 0"	2"	---	---	---	---	---	9/A620	9/A620	9/A620	001	---	INSULATED	
125D	WASH BAY	F	3'- 0"	8'- 0"	1 3/4"	HM	P-5	2	HM	P-5	4/A620	4/A620	2/A620	105	---	---	
202A	EQUIPMENT ROOM	F	6'- 0"	8'- 0"	1 3/4"	HM	P-5	1	HM	P-5	6/A620	6/A620	---	210T	---	---	

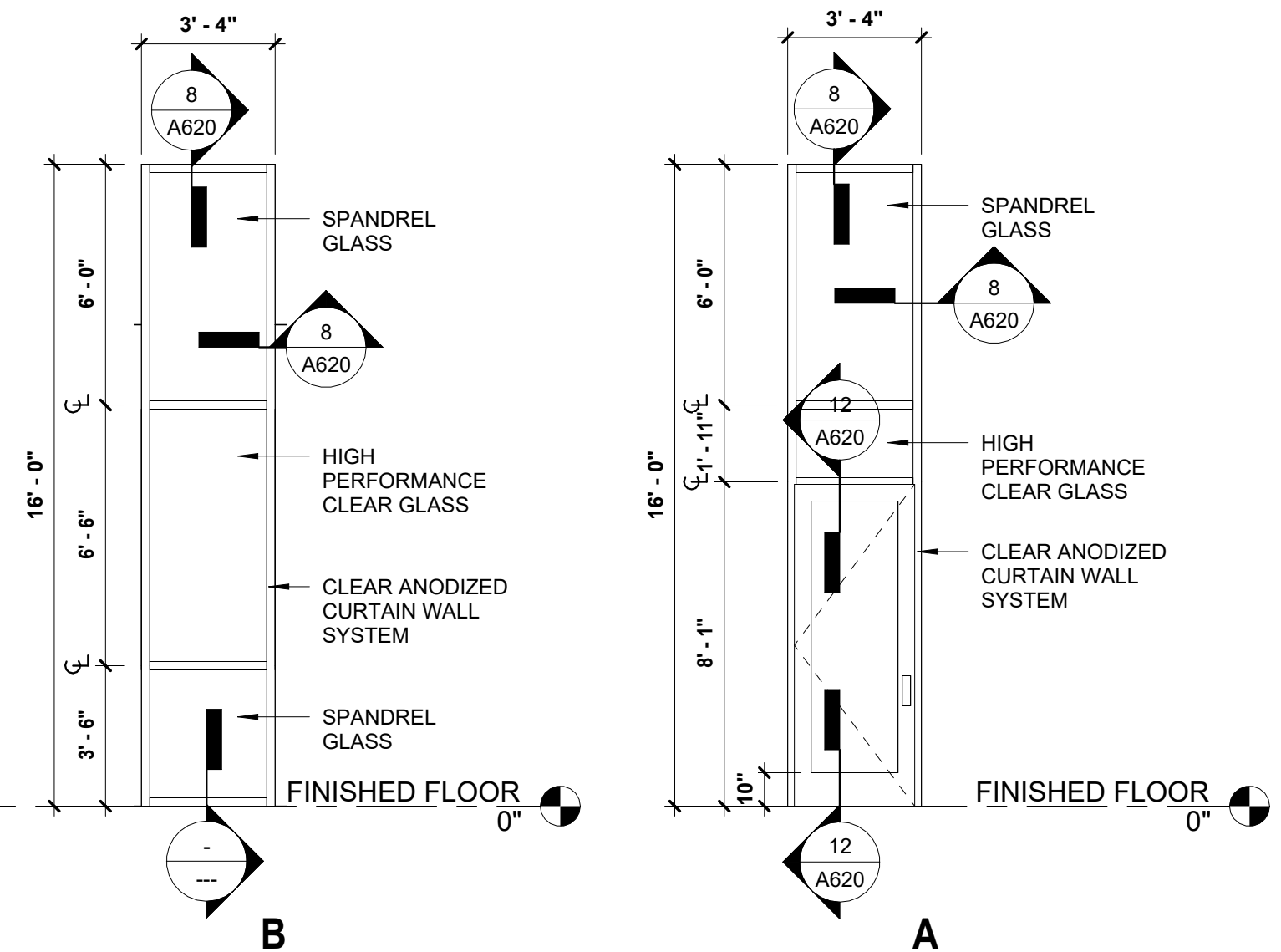
- SHEET NOTES**
- FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION.
  - DETAILS PROVIDED FOR PURPOSES OF DESIGN INTENT. VENDOR TO COORDINATE GLAZING AND FRAME SPECIFICATIONS WITH MANUFACTURER'S DETAILS AND SUBMIT COMPLETE SHOP DRAWINGS FOR REVIEW.
  - PROVIDE WEATHER SEALS ON ALL EXTERIOR DOOR PER ANSI STANDARDS.
  - ALL EGRESS REQUIREMENTS TO MEET CODE REQUIREMENTS.
  - HARDWARE VENDOR TO PROVIDE HARDWARE SUBMITTAL TO OWNER & ARCHITECT FOR FINAL APPROVAL - REF DOOR SCHEDULE FOR ANY OMISSIONS / CHANGES TO HARDWARE REQUIRED.
  - WOOD DOORS INTERIOR FLUSH" 1 3/4" TH. SOLID PARTICLE 5-PLY CORE CONSTRUCTION. CORE SHALL BE NONRATED COMPLYING WITH AWI SECTION 1300 TYPICAL PC-PARTICLE BOARD.



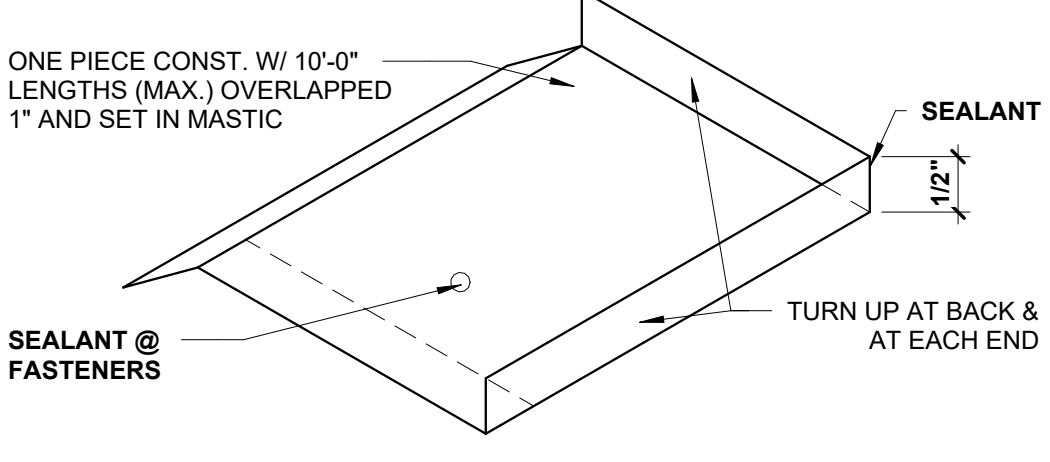
10 SPANDREL GLASS DETAIL  
1 1/2" = 1'-0"



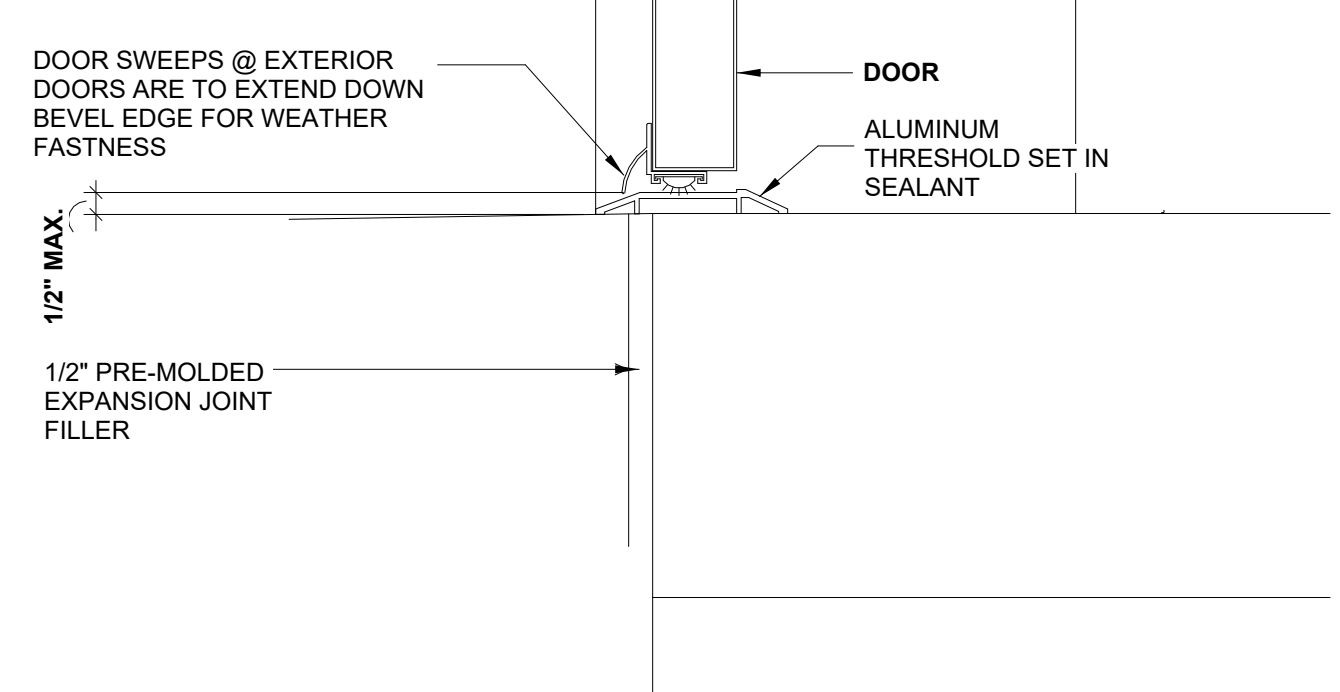
4 DOOR DETAIL - INTERIOR - H.M. @ 8" CMU  
3" = 1'-0"



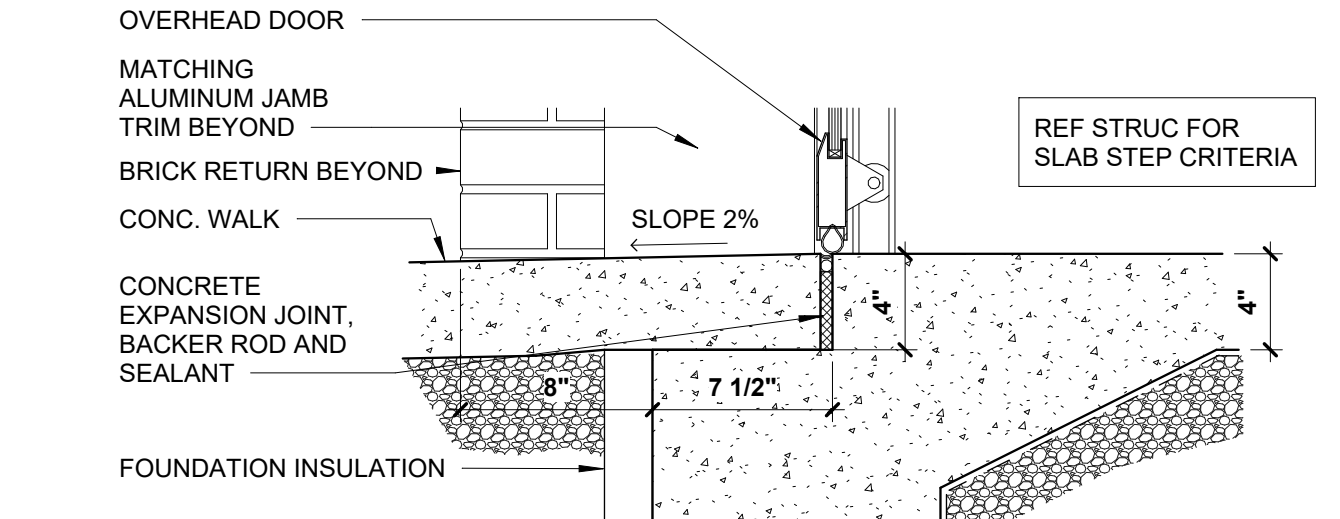
WINDOW ELEVATIONS  
1/4" = 1'-0"



3 WINDOW - SUBSILL DETAIL @ ALL EXTERIOR WINDOWS  
N.T.S.



2 DOOR DETAIL - EXTERIOR - TYPICAL THRESHOLD  
3" = 1'-0"



1 DETAIL SECTION - THRESHOLD AT OVHD. DOOR  
1 1/2" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECTS  
DELONY  
DAVIDSON, INC.  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION

4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

WINDOW LEGEND, DOOR  
SCHEDULE & DETAILS

CONTENTS

REVISIONS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096  
JOB. NO.  
02.14.2025  
DATE  
ISSUE  
A620

SHEET



24/03/2024 15:55:58 Mr. C:\Users\lms\OneDrive\2024\03\05 - Craighead Elec. Maintenance Shop Addition.dwg 11/04

ABBREVIATIONS

#XX	NUMBER	G.C.	GENERAL CONTRACTOR	PLBG	PLUMBING
A.F.F.	ABOVE FINISHED FLOOR	GA	GAUGE	PSF	POUNDS PER SQ FOOT
ADDL	ADDITIONAL	GALV	GALVANIZED	PSI	POUNDS PER SQ INCH
ADJ	ADJACENT	H.S.	HIGH STRENGTH	REINF	REINFORCEMENT
ARCH	ARCHITECTURAL	HORIZ	HORIZONTAL	REQD	REQUIRED
B.F.F.	BELOW FINISHED FLOOR	HSS	HORIZONTAL SQUARE, OR RECTANGULAR	SC	SLIP CRITICAL
BLDG.	BUILDING	INSI	INSIDE DIAMETER	SECT	SECTION
BOT.	BOTTOM	STR	STRUCTURAL TUBING	SHIT	SHEET
BTWN	BETWEEN	SIM	SIMILAR	SIM	SIMILAR
C	STANDARD CHANNEL	S.J.	SAWN JOINT	SJ	SAWN JOINT
CFS	COLD-FORMED STEEL	K or k	KIP (1,000 LBS)	SPA	SPACE
CJ	CONTROL JOINT	KCJ	KEYED CONTROL JOINT	SO	SQUARE
CL	COMPLETE JOINT	KSI	KIPS PER SQUARE INCH	SSL	SHORT SLOTTED HOLES
CLR	CLEAR	L	ANGLE	STD	STANDARD
CMU	CONCRETE MASONRY UNIT	LBS	POUNDS	T&B	TOP AND BOTTOM
COL	COLUMN	LINEAL	LINEAL FOOT	T.O.F.	TOP OF FOOTING
CONC	CONCRETE	LLH	LONG LEG HORIZONTAL	T.O.S.	TOP OF STEEL or TOP OF SLAB
CONX	CONNECTION	LLV	LONG LEG VERTICAL	T.O.W.	TOP OF WALL
CONT	CONTINUOUS	LSL	LONG SLOTTED HOLES	TC	TENSION CONTROL
D.B.	DEFORMED BAR ANCHOR	MANUF	MANUFACTURER	THRU	THROUGH
DBA	DIAMETER	MATL	MATERIAL	TYP	TYPICAL
DIA	DIAMETER	MAX	MAXIMUM	U.N.O	UNLESS NOTED OTHERWISE
DTL	DETAIL	MECH	MECHANICAL	VERT	VERTICAL
E.F.	EACH FACE	MIN	MINIMUM	OR V	VERTICAL SLIDING CLIP
EA	EACH	MISC	MISCELLANEOUS	W	WIDE FLANGE
ELEV	ELEVATION	N.T.S.	NOT TO SCALE	W.W.R.	WELDED WIRE REINF.
EW	EACH WAY	NS	NEAR SIDE	W	WITH
EXT	EXISTING	ON	ON CENTER	WP	WORK POINT
EXP	EXPANSION	O.C.	OUTSIDE DIAMETER	WT	TEE SHAPE MADE FROM W SHAPE
FLR	FLOOR	OPP	OPPOSITE	SECTION/DETAIL	X' ON SHEET
FS	FAR SIDE	P.J.	PANEL JOINT	S-YYY	SHEET "S-YYY"
FTG	FOOTING	PAF	POWER ACTUATED FASTENER	XX#	POUNDS
		PL	PLATE	ZRC	ZIN BASE PAINT

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE & ASCE 7-16		
STRUCTURAL RISK CATEGORY: II		
GRAVITY LOADS:		
LIVE LOADS		
FLOORS:	OFFICE AREAS	50 psf
	MECHANICAL ROOMS	125 psf
ROOF:	MINIMUM (NON-REDUCIBLE)	20 psf
	MECHANICAL ROOF	N/A
	GROUND SNOW LOAD	21 psf
	FLAT ROOF SNOW LOAD	13 psf
	SNOW DRIFT LOAD (MAX)	50 psf
	- SNOW LOAD IMPORTANCE FACTOR	Is = 1.0
	- SNOW EXPOSURE FACTOR	Cs = 1.0
	- THERMAL FACTOR	Ct = 1.0
DEAD LOADS:		
FLOORS:	STRUCTURAL SLAB	70 psf
ROOF:	DEAD & COLLATERAL PEMB ROOF SYSTEM	12 psf
LATERAL LOADS:		
WIND		
BASIC WIND SPEED		115 mph
EXPOSURE		B
WIND IMPORTANCE FACTOR		1.00
INTERNAL PRESSURE COEFFICIENT		+/- 0.18
SEISMIC		
SEISMIC OCCUPANCY CATEGORY	II	
SEISMIC IMPORTANCE FACTOR	Ib = 1.00	
SPECTRAL RESPONSE COEFFICIENT	Ss = 1.56	
	S1 = 0.42	
SITE CLASS	D (STIFF SOIL)	
ADJUSTED MC SPECTRAL RESPONSE	Sms = 1.22	
DESIGN SPECTRAL RESPONSE ACCELERATION	Sml = 0.41	
	Sds = 0.81	
	Sd1 = 0.28	
SEISMIC DESIGN CATEGORY	D	
BASIC SEISMIC RESISTING SYSTEM	MOMENT FRAME(S) (R=3.25)	
DESIGN BASE SHEAR	V = 0.024W	
SEISMIC RESPONSE COEFFICIENT	Cs = 0.249	
RESPONSE MODIFICATION FACTOR	R = 3.25	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	
SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION - SEE SPECIFICATION SECTION 014533 (IBC).		

GENERAL STRUCTURAL NOTES

A. SPECIAL INSPECTIONS:

1. QUALIFIED INSPECTORS SHALL CONDUCT SPECIAL INSPECTIONS AND TEST AND FURNISH REPORTS AS SPECIFIED IN SECTION 014533 AND IN ACCORDANCE WITH CHAPTER 17, INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL COORDINATE THE SPECIAL INSPECTIONS AND TESTING SERVICES WITH THE PROGRESS OF THE WORK, PROVIDE THE APPROPRIATE DOCUMENTATION AND PERFORM OTHER TASKS AS SPECIFIED IN SECTION 014533 (IBC).
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL OTHER INSPECTIONS OR TESTS IN THE SPECIFICATIONS, NOT USED IN THE SCHEDULE OF SPECIAL INSPECTION SERVICES IN SECTION 014533 (IBC).
4. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIR, REINSPECTION AND RETESTING FOR ITEMS THAT DO NOT PASS THE INSPECTIONS OR TESTS.
5. SPECIAL INSPECTION SERVICES DO NOT RELIEVE THE CONTRACTOR OR RESPONSIBILITY FOR COMPLIANCE WITH OTHER CONSTRUCTION DOCUMENT REQUIREMENTS OR REGULATORY REQUIREMENTS.

B. STABILITY DURING CONSTRUCTION, SHORING, AND TEMPORARY STRUCTURES:

1. PERMANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL ALL THE STRUCTURAL ELEMENTS ARE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. PROVIDE STABILITY TO ALL NON-SELF SUPPORTING ELEMENTS AND SAFETY TO ALL WORKERS, ANIMALS AND PROPERTY DURING CONSTRUCTION AND UNTIL ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
2. WHERE SHORING AND/OR TEMPORARY STRUCTURES ARE REQUIRED IN ORDER TO SATISFY THE CONTRACT REQUIREMENTS, TEMPORARY STRUCTURES SHALL BE DESIGNED AND BUILT WITHOUT EXTRA COST TO THE CONTRACT. THE DESIGN SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER.
3. BRACING USED TO STABILIZE THE BUILDING DURING THE ERECTION PROCESS SHALL BE DESIGNED TO NOT TWIST OR DISTORT MEMBERS. SPECIFICALLY, IF CABLES ARE USED THEY SHALL BE ATTACHED TO THE CENTER OF THE COLUMN AND NOT WRAPPED AROUND THE COLUMN IN A MANNER THAT WILL TWIST THE COLUMN.
4. THE TEMPORARY BRACING USED TO STABILIZE THE BUILDING DURING THE ERECTION PHASE SHALL BE DESIGNED FOR LOADS AS REQUIRED BY THE APPLICABLE CODES. THE DESIGN OF THE BRACING SHALL TAKE INTO ACCOUNT ADDITIONAL FORCES DUE TO THERMAL CONTRACTION AND EXPANSION OF THE BUILDING FRAME AND BRACES.
5. THE ANCHOR RODS FOR STEEL COLUMNS ARE NOT DESIGNED TO STABILIZE STRUCTURE BY PROVIDING FIXITY OF THE COLUMN BASE. THE ERECTION OF THE STEEL PROVIDE TEMPORARY BRACING FOR STABILITY DURING THE ERECTION PHASE AND UNTIL ALL GRAVITY AND LATERAL LOAD RESISTING ELEMENTS ARE IN PLACE AND WELDING AND/OR BOLTING INSPECTION IS COMPLETE.
6. COMPLY WITH OSHA SAFETY STANDARDS FOR ERECTION OF THE BUILDING FRAME.

C. MISCELLANEOUS:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK AND COORDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES.
2. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR REQUIRED OPENING AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THESE DRAWINGS ARE NOT. AND VERIFY SIZE AND LOCATION WITH ALL SUB-CONTRACTORS. NOMINAL PIPE SLEEVES THROUGH THE DECK WILL NOT REQUIRE FRAMING UNLESS THE OPENING EXCEEDS 10 IN DIAMETER.
3. WORK NOT INDICATED ON PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
4. LOADING FOR MECHANIC ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
5. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
6. INSURE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
7. THE DETAILS SHOWN AND DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS UNLESS NOTED OTHERWISE.
8. THE DETAILS ON THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY THE ARCHITECT/ENGINEER. IF PERMITTED, THE REVISED DETAILS AND CALCULATIONS SHALL BE DONE ONLY BY A LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
9. PROVIDE SIGNS AT ROOMS/FLOORS POSTED IN A CONSPICUOUS LOCATION INDICATING THE FLOOR LIVE LOAD CAPACITY AS STATED IN THE DESIGN CRITERIA SECTION OF THIS DRAWING. THE SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND THE BUILDING INSPECTOR. SEE SPECIFICATION FOR GENERAL SIGN REQUIREMENTS.
10. IF A DIFFERENT ELEVATOR IS SELECTED SUCH THAT FRAMING AND/OR FOUNDATION CHANGES ARE REQUIRED, INCLUDE AN ALLOWANCE FOR THE ENGINEER TO REDESIGN TO ACCOMMODATE THE ELEVATOR REQUIREMENTS.
11. PRIOR TO STARTING SHOP DRAWINGS, ORDERING MATERIAL, AND PRIOR TO FABRICATION: a. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS b. ARCHITECTURAL DIMENSIONS GOVERN
12. RESOLVE APPARENT DEFICIENCIES, OMISSIONS, CONTRADICTION, AND AMBIGUITIES IN CONTRACT DOCUMENTS WITH ARCHITECT/ENGINEER BEFORE AFFECTED WORK PROCEEDS. FOR BID PURPOSES USE THE INTERPRETATIONS RESULTING IN THE GREATEST COST.
13. NO MODIFICATION, ALTERATION, CORRECTION, OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW AND ACCEPTANCE OF THE CONTRACT ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND EMPLOYED BY THE CONTRACT. ARCHITECTURAL/ENGINEER REVIEW IS CONTRACTOR EXPENSE.

D. FOUNDATION & EARTHWORK:

1. FOUNDATION DESIGN IS BASED UPON A PRESUMED BEARING VALUE OF 2000 PSF AND NO EXPANSIVE SOILS PRESENT AT THE SITE.
2. BEARING MATERIAL AND BEARING VALUE OF THE FOUNDATION SOILS SHALL BE FIELD VERIFIED AFTER EXCAVATION AND PRIOR TO PLACEMENT OF CONCRETE. TESTING SHOULD BE PERFORMED BY A CERTIFIED MATERIALS TESTING LABORATORY.
3. TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC.
4. SOME UNDERCUTTING MAY BE REQUIRED DEPENDING ON TIME OF YEAR (GROUND MEASURE), COORDINATE CLEARING AND DIRT WORK WITH GEOTECHNICAL ENGINEER.
5. BACKFILLING: a. DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS AND GRADE BEAMS UNTIL BRACING FLOORS ARE ARE IN PLACE OR ADEQUATE TEMPORARY BRACING HAS BEEN INSTALLED b. BACKFILL IN EVEN LIFTS ALTERNATING FROM SIDE TO SIDE (IF MAX LOOSE LIFTS) c. ALL FILL MATERIAL SHALL BE NONEXPANSIVE AND MINIMUM PLASTICITY d. FILL SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY PER ASTM 1587 e. COMPACTION SHALL BE ACHIEVED WITHIN -3% TO +5% OF THE OPTIMUM WATER CONTENT

E. CONCRETE AND REINFORCING

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF ALL CONCRETE AT 28 DAYS SHALL BE 4,000 PSI WITH A WEIGHT OF 145 PCF.
2. MAXIMUM ALLOWABLE w/c RATIO = 0.55
3. MAXIMUM ALLOWABLE SLUMP = 5"
4. NO CHLORIDE ADDITIVES ALLOWED.
5. REINFORCING : a. BARS: ASTM A615 - GRADE 60, EXCEPT USE GRADE 40 FOR BARS NOTED (IF NOTED). AS FIELD BENT. b. SHEET MESH: ASTM A185
6. CLEARANCE BETWEEN REINFORCING AND CONCRETE SURFACES WHICH ARE: CAST AGAINST EARTH OR ROCK.....3" FORMED AND EXPOSED TO WEATHER OR EARTH.....2" FORMED BUT NOT EXPOSED TO WEATHER OR EARTH.....1 1/2" c. WALLS, SLABS
7. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMNS, BEAMS, WALLS, AND SLAB EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FORM FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301 AS MODIFIED BY THE SPECIFICATIONS.
9. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY VERTICAL REINFORCING.
10. "C.J." REPRESENTS CONTROL JOINT. SAWCUT ALL CONTROL JOINTS WITHIN 8 HOURS OF POUR.
11. PROVIDE PLAN (PER ACI RECOMMENDATIONS) FOR COLD (40°F & BELOW) OR HOT (90°F & ABOVE) WEATHER CONCRETE CURING. FOLLOW ACI RECOMMENDATIONS SPECIFIED IN ACI 308R-16 (COLD) & ACI 308R-20 (HOT WEATHER)

12. UNLESS SHOWN OR OTHERWISE NOTED, PROVIDE STANDARD HOOKS ON END OF ALL BARS EXCEPT THOSE LAPPED OR SPLICED TO A CONTINUING BAR.
13. AS PART OF CONCRETE WORK PROVIDE CONCRETE EQUIPMENT PADS, HOUSE KEEPING PADS, INERTIA BASES AND CURBS AS INDICATED ON ANY OF THE CONTRACT DRAWINGS UNLESS SPECIFIED TO BE PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATION. UNLESS NOTED, DOWEL TO STRUCTURE BELOW WITH #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 12" O.C. EACH WAY AND REINFORCE W/ #4 @ 12" EACH WAY, TOP AND BOTTOM.
14. CONCRETE EQUIPMENT PADS, INERTIA BASES AND CURBS NOT SHOWN ON THE CONTRACT DOCUMENTS FOR THIS BID PACKAGE ARE THE RESPONSIBILITY OF THE TRADE WHO'S EQUIPMENT BEARS ON THEM OR ATTACHES TO THEM.
15. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOWS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, AND FOR MISCELLANEOUS EMBEDDED PLATS, BOLTS, ANCHORS, ETC.
16. SELECT FORMWORK TO PRODUCE THE FINISH REQUIRED, WHERE FINISH IS NOT SPECIFIED, FORMWORK FOR EXPOSED SURFACES SHALL BE ACI/ASTM CLASS A, AND FORMWORK FOR OTHER SURFACES SHALL BE ACI 347R, CLASS C. A SURFACE IS CONSIDERED EXPOSED IF THE CONCRETE TEXTURE CAN BE SEEN BY ANYONE IN THE COMPLETED STRUCTURE.

F. STRUCTURAL STEEL

1. ROLLED AND BUILT UP SECTIONS a. W8'S THRU W36'S - A572 GRADE 50 b. PIPES - A53-30 ksi c. TUBES - A500 GRADE B - 46 ksi d. BUILT-UP SHAPES - AS INDICATED e. ALL ELSE - A36 - 36 ksi OR A572 GRADE 50
2. SPACE MEMBERS UNIFORMLY BETWEEN DIMENSIONED LOCATIONS
3. CONNECTIONS a. WELD OR BOLT, UNLESS NOTED OTHERWISE b. DESIGN CONNECTIONS NOT ENTIRELY DETAILED ON DRAWINGS c. DETAILS SHOW THE RELATIONSHIP BETWEEN MEMBERS AND MAY GIVE LIMITATIONS OR CRITERIA TO BE USED IN DEVELOPING COMPLETE CONNECTION DESIGN AND DETAILS. USE CONNECTIONS FROM PART 4, AISC MANUAL, 9TH EDITION, FOR TS AND PIPE CONNECTIONS USE CONNECTIONS FROM AISC HOLLOW STRUCTURAL SECTIONS CONNECTIONS MANUAL d. MINIMUM THICKNESS: ANGLES 5/16" PLATES 3/8"
4. CONNECTION DESIGN FORCES a. BEAM CONNECTIONS 1) IF SHOWN, USE 10% OF THE REACTION OF THE DRAWINGS BUT NOT LESS THAN 10 kips. 2) IF NO REACTION IS SHOWN, USE 55% OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS BUT NOT LESS THAN 10 kips.
5. BOLTED CONNECTIONS a. MINIMUM BOLT DIAMETER, 3/4" UNLESS NOTED. b. TWO BOLTS MINIMUM PER CONNECTED MEMBER. c. USE A325SS OR A490SS BOLTS FOR BRACING, MOMENT CONNECTIONS, CANTILEVERS, TENSIONS MEMBERS AND AT OVERSIZED OR SLOTTED HOLES WHERE THE FORCE ON THE JOINT IS PARALLEL TO THE LONG AXIS OF THE SLOT. USE A325N OR A490N ELSEWHERE. d. FOR BEAM TO COLUMN CONNECTION, USE SHORT OR LONG SLOTTED HOLES AND FULLY TENSIONED BOLTS, EXCEPT USE SC BOLTS AT MOMENT CONNECTIONS. e. OVERSIZED AND LONG SLOTTED HOLES PERMITTED ONLY WHERE SHOWN OR NOTED.
6. WELDED CONNECTIONS: a. ELECTRODES: E70 SERIES b. FILLET WELDS: AISC MINIMUM, BUT NOT LESS THAN 3/16", UNLESS NOTED c. GROOVE WELDS: FULL PENETRATION, UNLESS NOTED OTHERWISE d. WELDS ARE CONTINUOUS UNLESS NOTED OTHERWISE

G. EMBEDDED ITEMS:

1. DO NOT EMBED PIPES, TUBES, WIRES, CONDUIT, DUCTS, OR CAVITY CREATING NON-STRUCTURAL ITEMS IN CONCRETE.

H. ANCHORING:

1. ANCHORS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE PROVIDED BY THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.
2. DETERMINING THE INSTALLED CAPACITY OF ANCHORS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.
3. LOCATING AND MISSING EMBED ITEMS IN CONCRETE IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.

I. SUPPORT AND BRACING OF WORK NOT SHOWN ON STRUCTURAL DRAWINGS:

1. SUPPORTS, BRACING, SUB-FRAMING, LIGHT GAGE FRAMING, MISCELLANEOUS STEEL, BRACKETS, CONNECTORS, AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR WITH ITEMS BEING SUPPORTED OR BRACED AT THE TRADE CONTRACTOR'S EXPENSE.
2. IF STRUCTURAL DRAWINGS REFERENCED BY OTHER DRAWINGS FOR ITEMS NOT FULLY DEFINED ON STRUCTURAL DRAWINGS (AND ASSOCIATED SPECIFICATIONS) THEN ENGINEER AND PROVIDE SUCH ITEMS ON A PERFORMANCE BASIS IN COMPLIANCE WITH THE GOVERNING BUILDING CODE. ALL COSTS SHALL BE BORN BY THE TRADE CONTRACTOR ATTACHING TO OR BEARING UPON SUCH ITEMS.
3. SUPPORT AND BRACING SYSTEMS SHALL NOT TRANSMIT LATERAL LOADS TO COLUMNS BETWEEN FLOORS OR TO THE BOTTOMS OR SIDES OF STEEL BEAMS OR JOISTS. IF OTHER CONTRACT DRAWINGS INDICATE BRACING OR ATTACHMENT DETAILS WHICH WOULD RESULT IN LATERAL LOADS BEING TRANSMITTED TO THE SIDE OF COLUMNS BETWEEN FLOORS OR TO THE BOTTOMS OR SIDES OF BEAMS OR JOISTS THEN THE TRADE CONTRACTOR RESPONSIBLE FOR THE ITEMS TRANSMITTING SUCH LATERAL LOADS INCLUDE THE COST IN HIS BID FOR ENGINEERING AND PROVIDING BRACING TO THE TOP OF FLANGE OF THE NEXT ADJACENT BEAM OR JOIST.

FACADE AND WALL SYSTEMS ATTACHMENTS TO THE STRUCTURE:

- SHALL NOT ASSUME THE STRUCTURE PROVIDES MOMENT RESISTANCE AT THE POINT OF ATTACHMENT.
- SHALL BE TO THE EDGE OF THE FLOOR SLAB OR ROOF DECK ONLY UNLESS NOTED ON THE STRUCTURAL DRAWINGS.
- SHALL NOT RESTRICT INDEPENDENT VERTICAL OR LATERAL MOVEMENT OF THE BUILDING LEVELS.

f <sub>c</sub> = 3,000 psi		SPLICE LENGTH (in)			
		TOP BARS (alpha = 1.3)		OTHER BARS (alpha = 1.0)	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	33	17	25
	B	28	42	22	33
#4	A	29	43	22	33
	B	38	56	29	43
#5	A	36	54	28	42
	B	47	70	36	54
#6	A	43	65	33	50
	B	56	84	43	65
#7	A	63	94	48	72
	B	81	122	63	94
#8	A	72	107	55	83
	B	93	139	72	107
#9	A	81	121	62	93
	B	105	157	81	121
#10	A	91	136	70	105
	B	118	177	91	136
#11	A	101	151	78	116
	B	131	196	101	151

f <sub>c</sub> = 4,000 psi		SPLICE LENGTH (in)			
		TOP BARS (alpha = 1.3)		OTHER BARS (alpha = 1.0)	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	19	28	15	22
	B	25	37	19	28
#4	A	25	37	19	29
	B	33	49	25	37
#5	A	31	47	24	36
	B	41	61	31	47
#6	A	37	56	29	43
	B	49	73	37	56
#7	A	54	81	42	63
	B	71	106	54	81
#8	A	62	93	48	72
	B	81	121	62	93
#9	A	70	105	54	81
	B	91	136	70	105
#10	A	79	118	61	91
	B	102	153	79	118
#11	A	87	131	67	101
	B	114	170	87	131



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

STRUCTURAL NOTES

CONTENTS

REVISIONS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096

JOB NO.

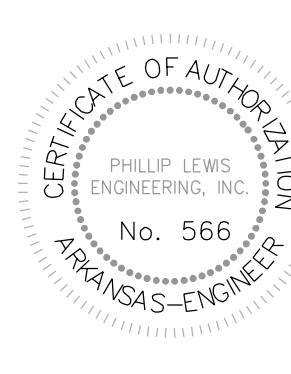
02.14.2025

DATE

ISSUE SET

S100

SHEET





NO.	DATE	DESCRIPTION
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2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096

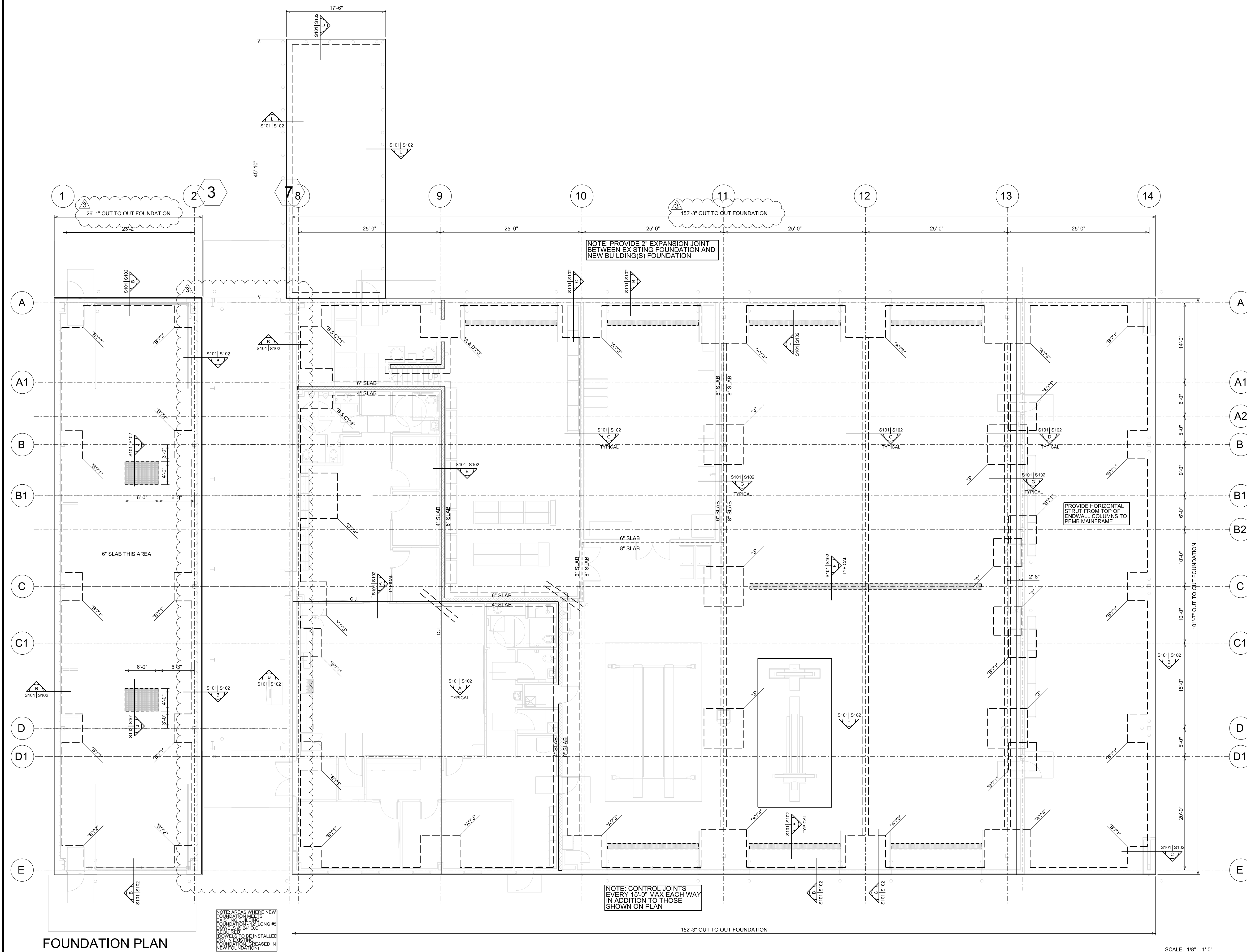
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02.14.2025

DATE

ISSUE SET

S101



## STRUCTURAL NOTES/SPECIFICATIONS

- CONCRETE AND REINFORCING
- MINIMUM CONCRETE COMPRESSIVE STRENGTH OF ALL CONCRETE AT 28 DAYS SHALL BE 4,000 PSI WITH A WEIGHT OF 145 PCF
- MAXIMUM ALLOWABLE  $w/c$  RATIO = 0.55
- MAXIMUM ALLOWABLE SLUMP = 5"
- NO CHLORIDE ADDITIVES ALLOWED.
- REINFORCING:
  - BARS - ASTM A615 - GRADE 60, EXCEPT USE GRADE 40 FOR BARS NOTED (IF NOTED), AS FIELD BENT.
  - SHEET MESH - ASTM A185
- CLEARANCE BETWEEN REINFORCING AND CONCRETE SURFACES WHICH ARE:
  - CAST AGAINST EARTH OR ROCK - 3"
  - FORMED AND EXPOSED TO WEATHER OR EARTH - 2"
  - FORMED BUT NOT EXPOSED TO WEATHER OR EARTH - 1 1/2"
  - COLUMNS, BEAMS, GIRDERS - 1 1/2"
  - WALLS, SLABS - 3/4"
- MAXIMUM WATER/CEMENT RATIO = 0.55 AND MAXIMUM SLUMP OF 5"
- UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMNS, BEAMS, WALLS, AND SLAB EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FORM FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301 AS MODIFIED BY THE SPECIFICATIONS.
- "C.J." REPRESENTS CONTROL JOINT. SAWCUT ALL CONTROL JOINTS WITHIN 8 HOURS OF POUR.
- PROVIDE PLAN (PER ACI RECOMMENDATIONS) FOR COLD (40°F & BELOW) OR HOT (90°F & ABOVE) WEATHER CONCRETE CURING. FOLLOW ACI RECOMMENDATIONS SPECIFIED IN ACI 306R-16 (COLD) & ACI 305R-20 (HOT WEATHER)

## FOOTING SCHEDULE

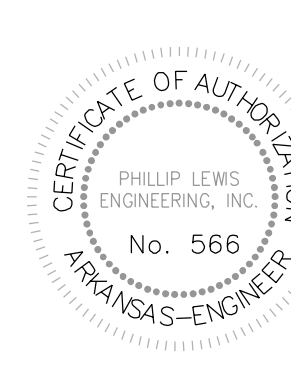
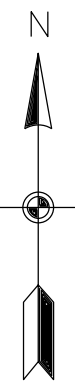
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FOOTING  
COLUMN

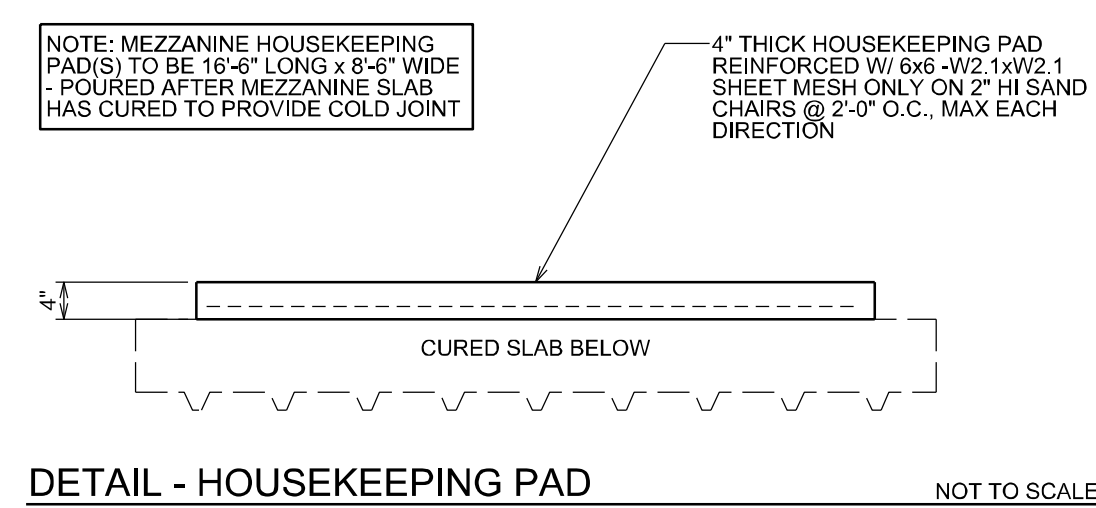
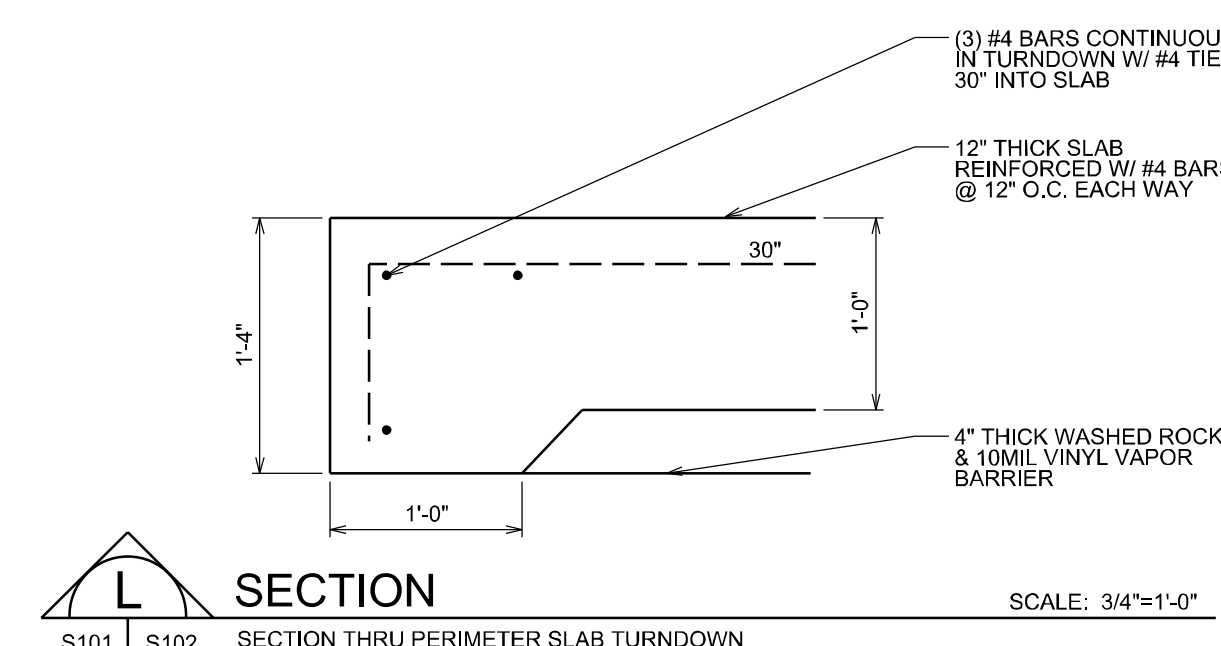
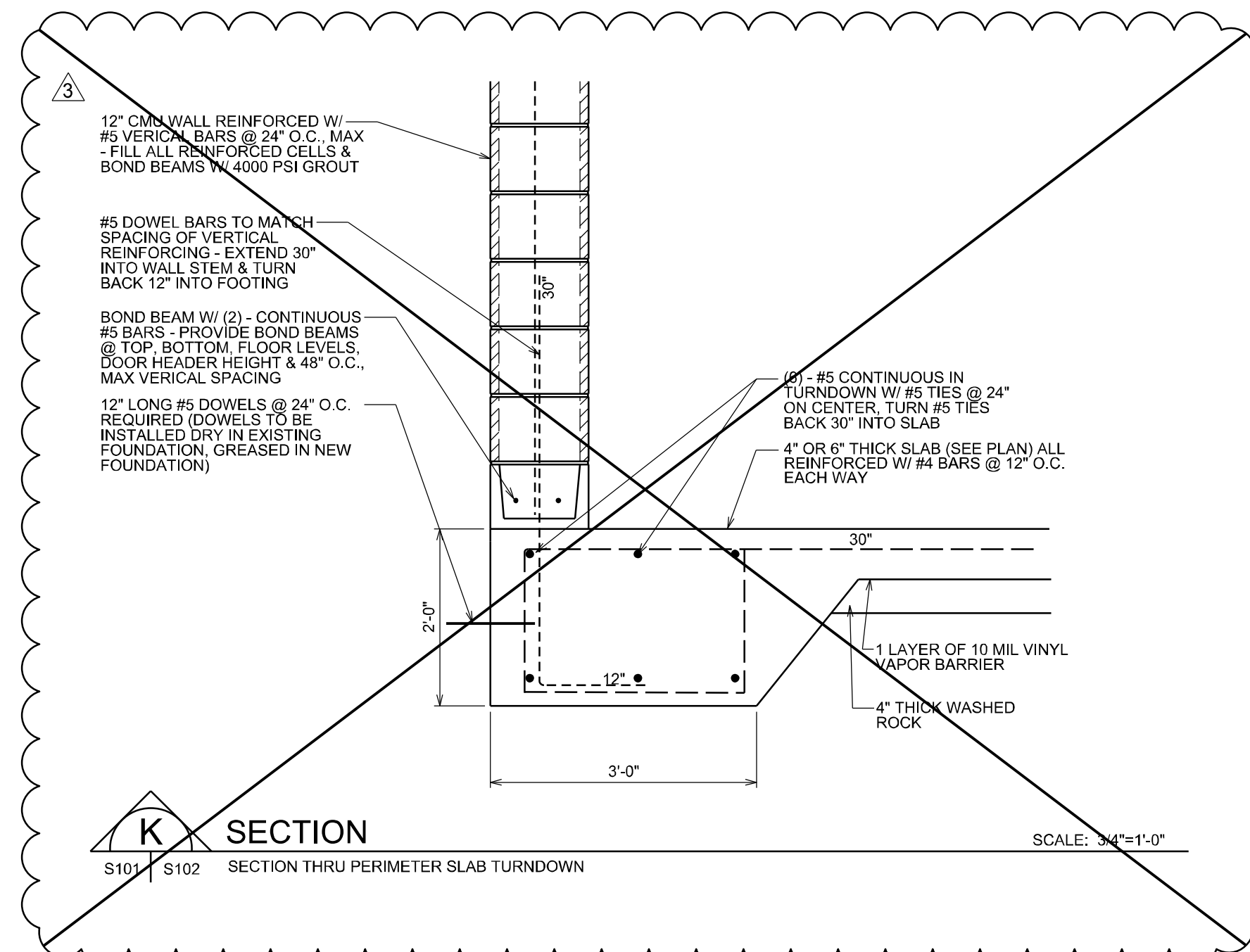
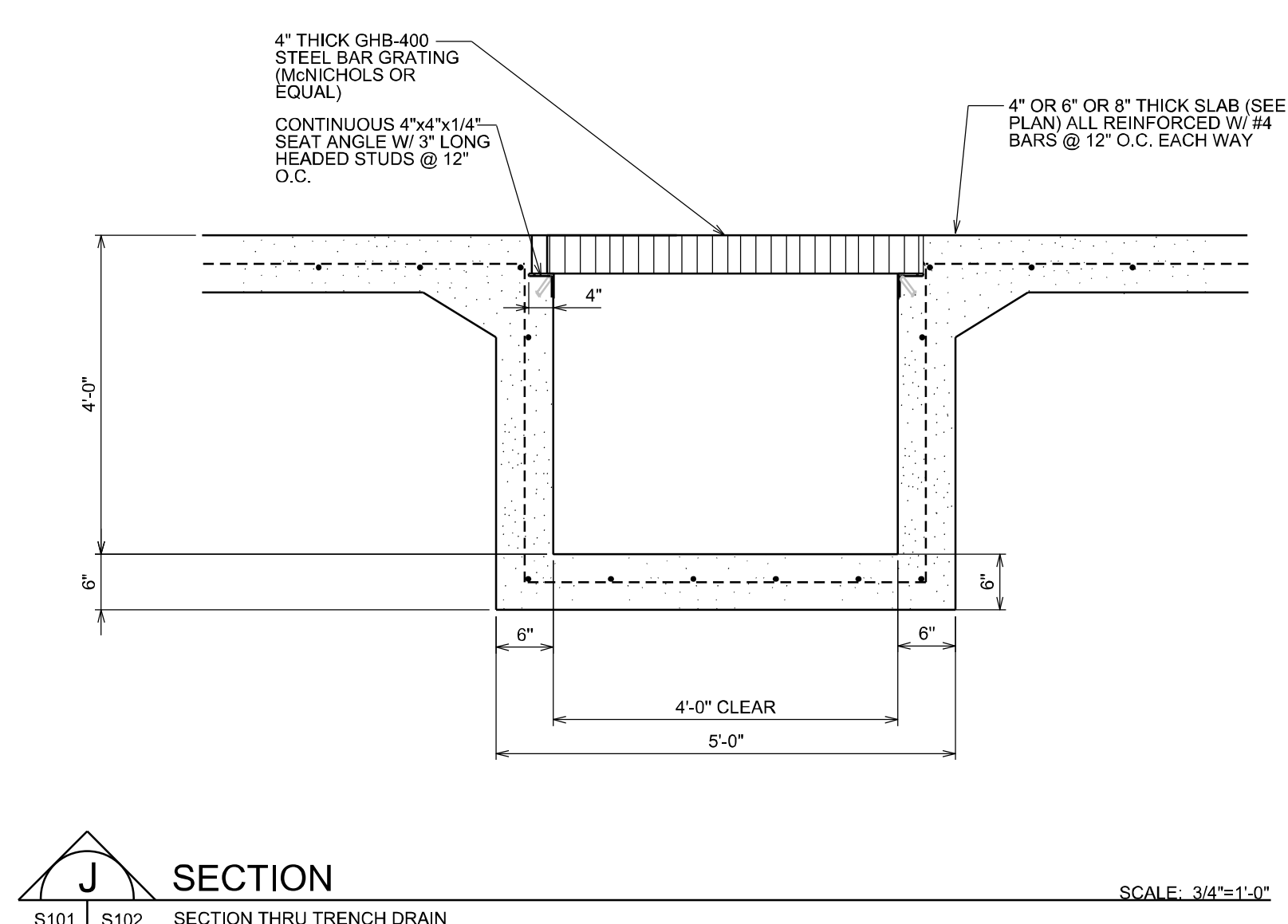
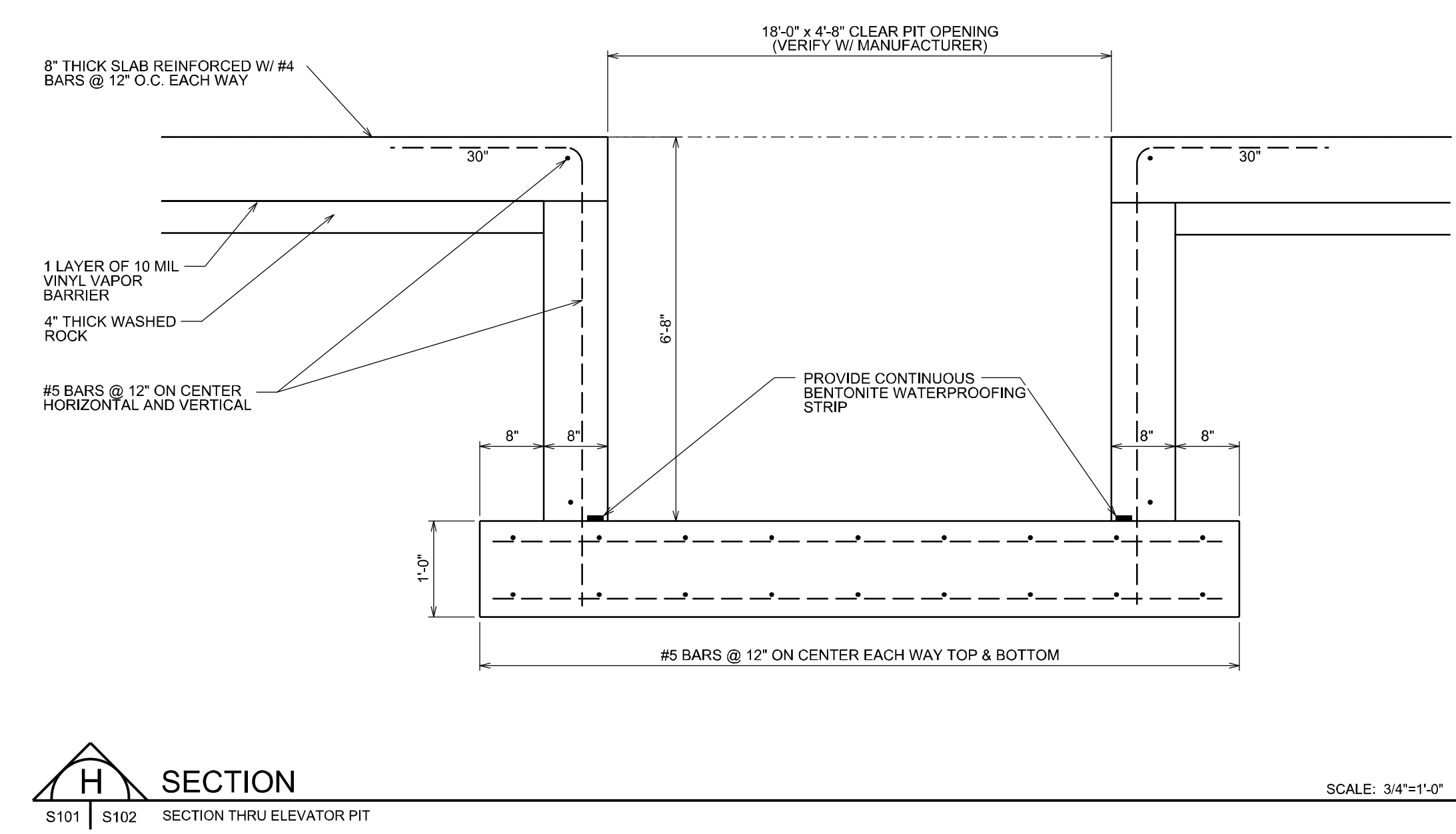
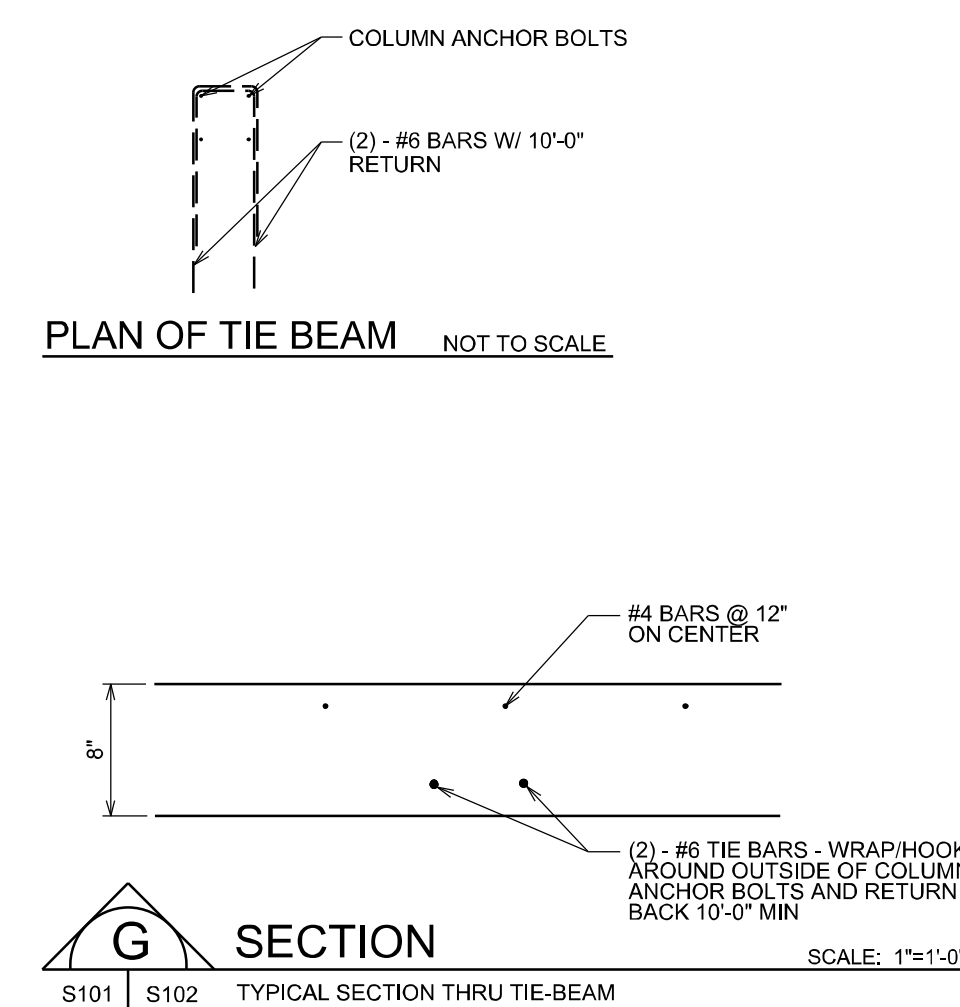
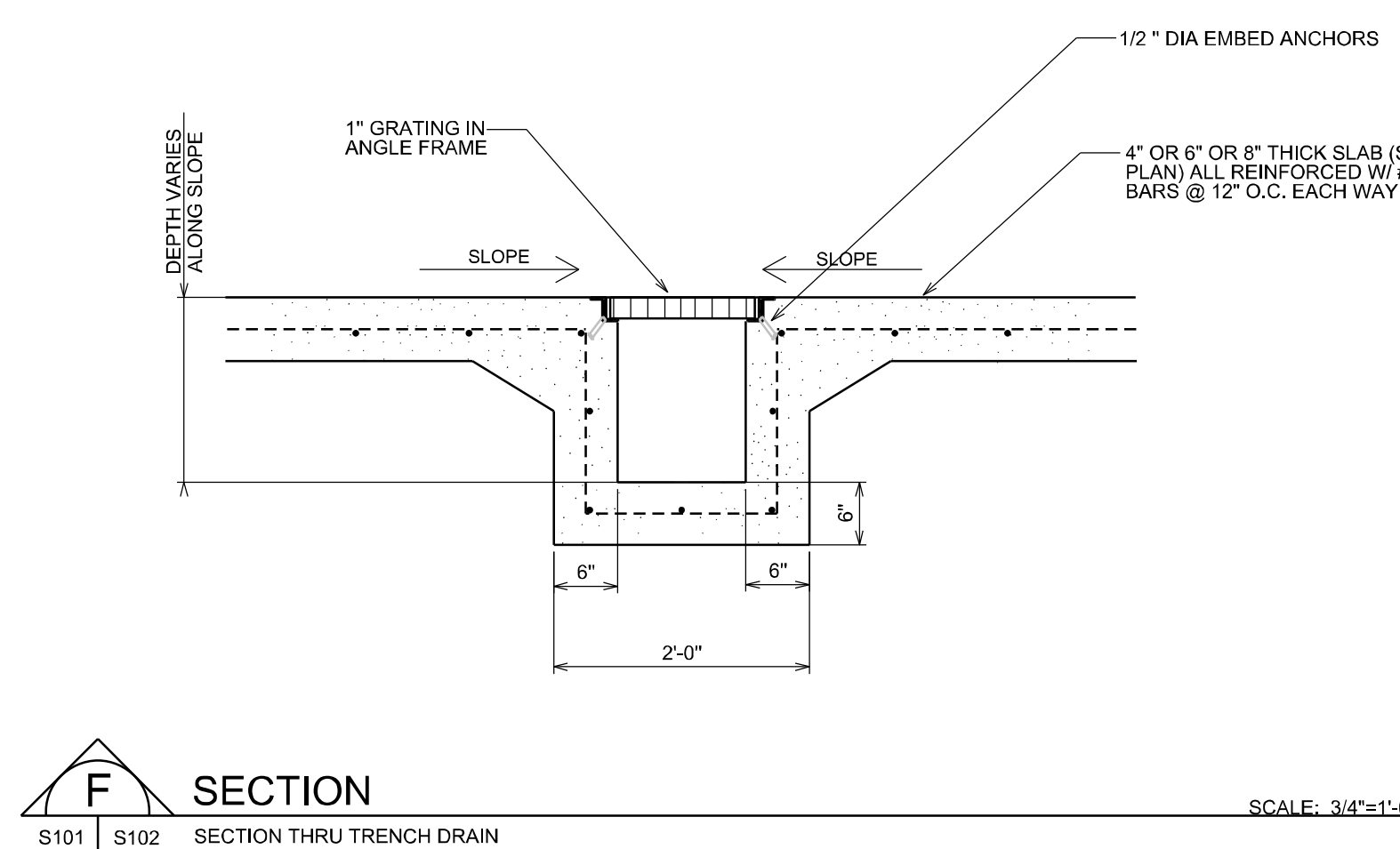
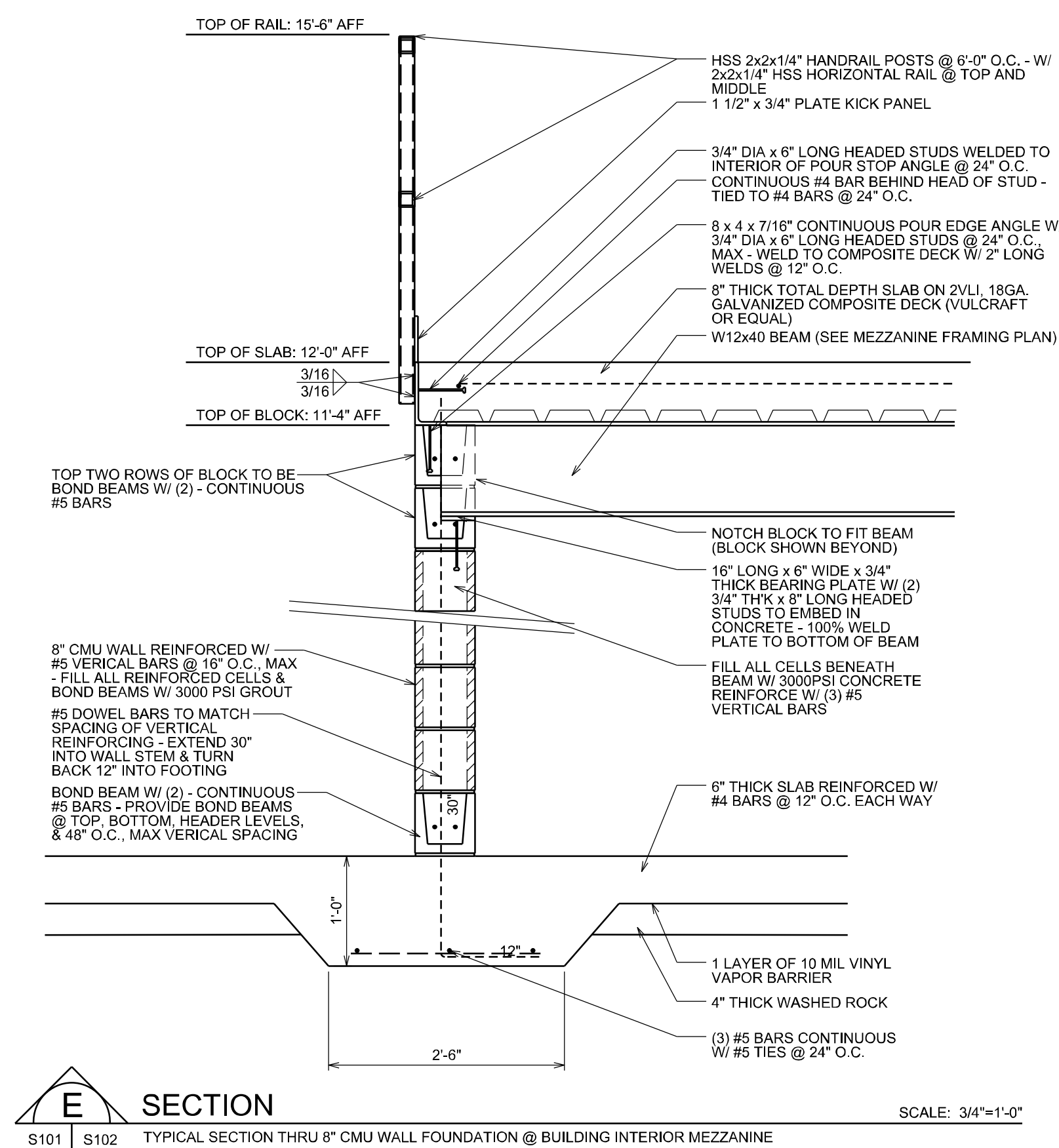
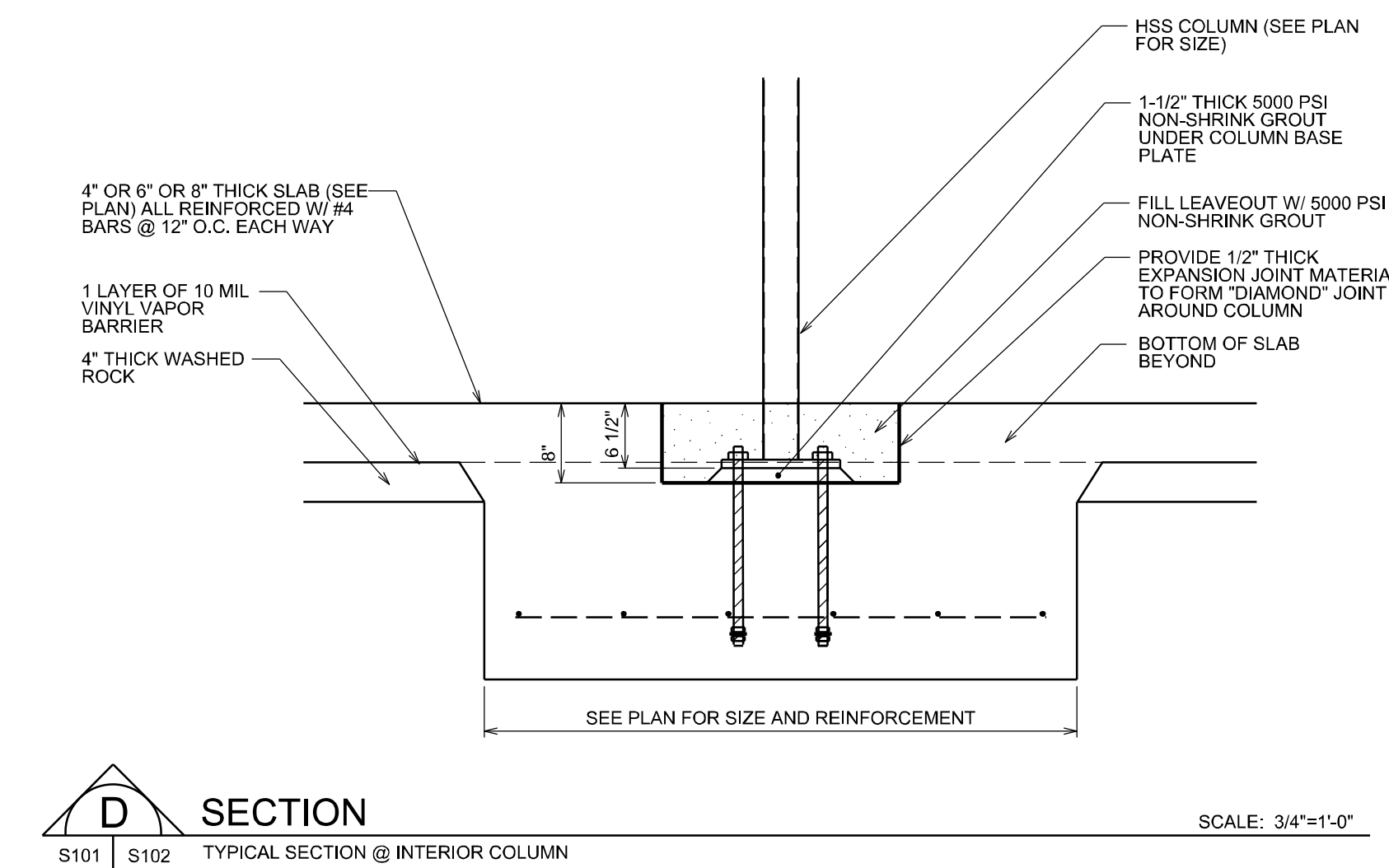
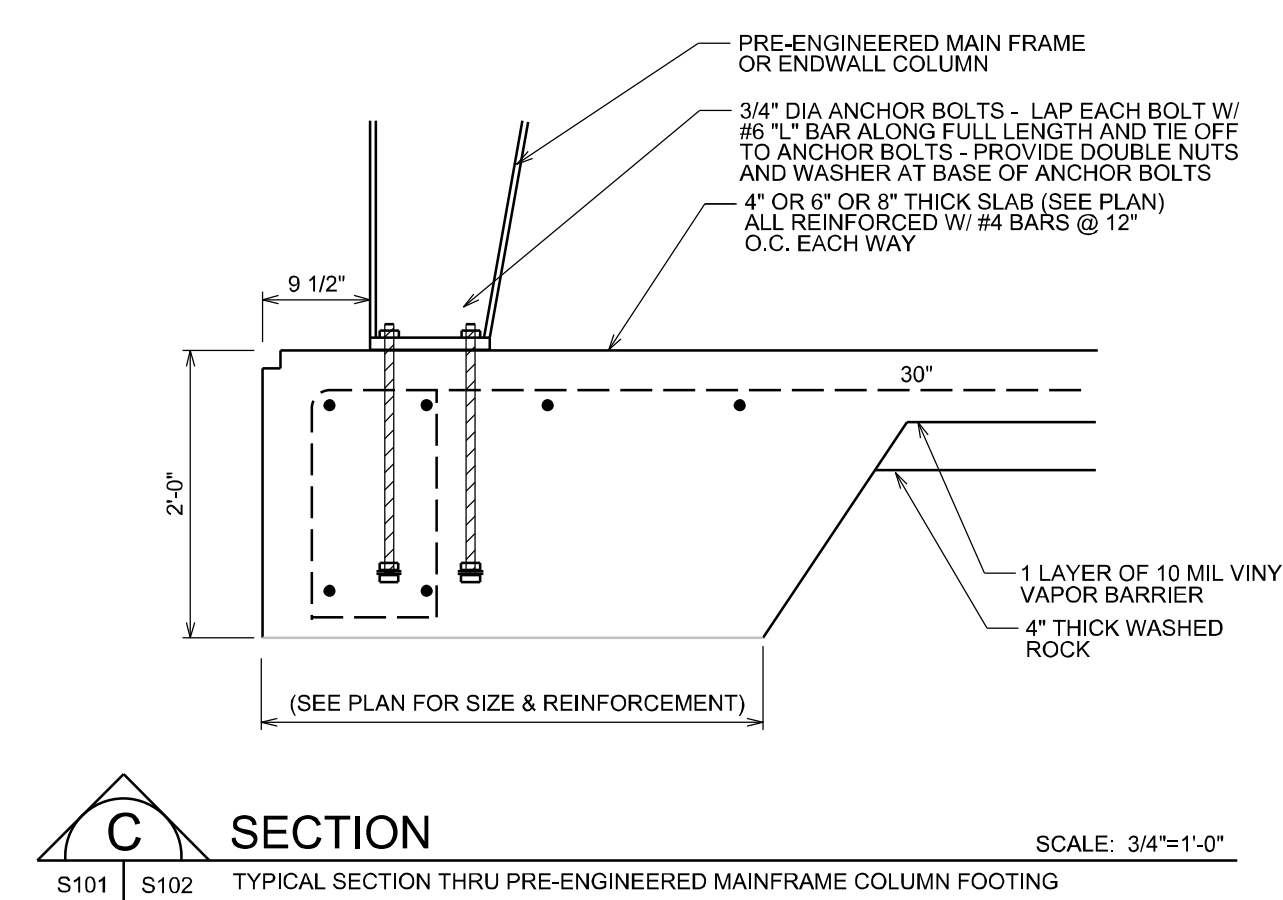
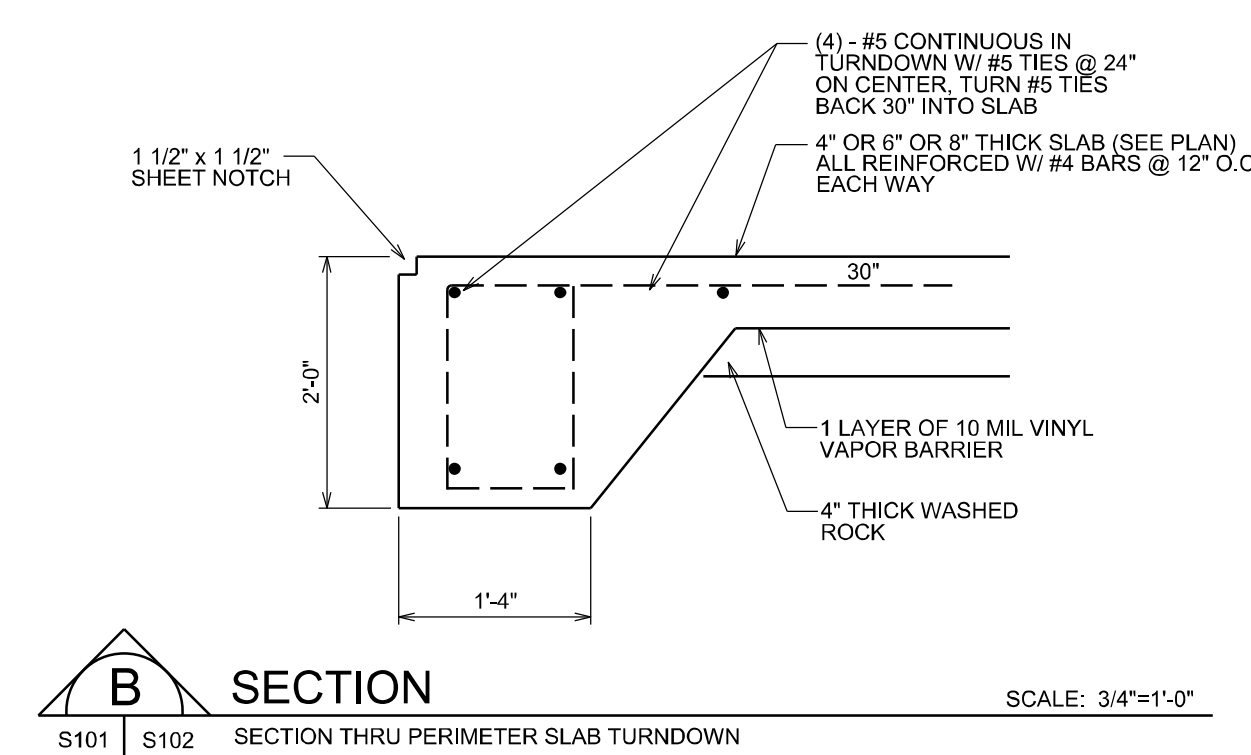
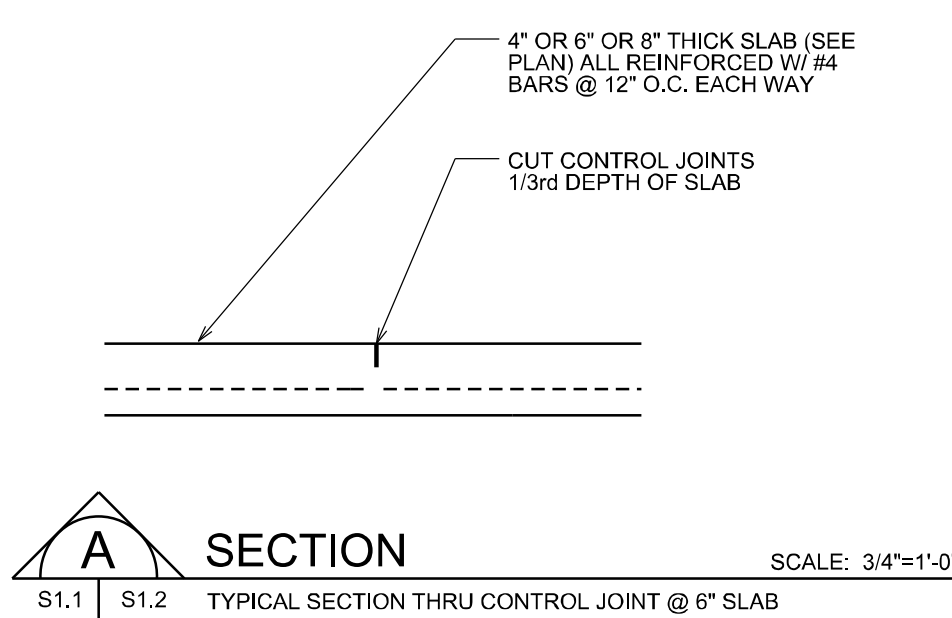
## COLUMN SCHEDULE

A	PRE-ENGINEERED MAIN FRAME COLUMN
B	PRE-ENGINEERED ENDWALL COLUMN
C	HSS 8x8x5/8" COLUMN W/ 12"x12"x3/4" THK BASEPLATE
D	HSS 6x6x3/8" COLUMN W/ 12"x12"x3/4" THK BASEPLATE

ALL COLUMNS TO HAVE (4 MINIMUM) - 3/4" DIA ASTM F1554 (GRADE 36) ROD (THREADED AS NEEDED) 1'-3" LONG WITH DOUBLE NUT AND WASHERS ON BOTTOM OF ANCHOR BOLTS







NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1



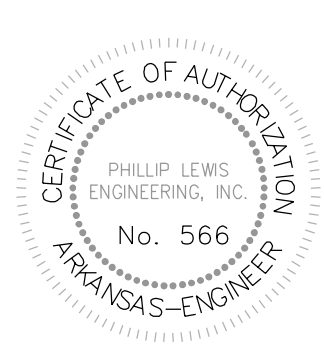
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ELEVATION - FRONT

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

ELEVATION - REAR

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



SHEET

REVISIONS

CONTENTS

PROJECT TITLE



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

STRUCTURAL ELEVATIONS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096

JOB. NO.

02.14.2025

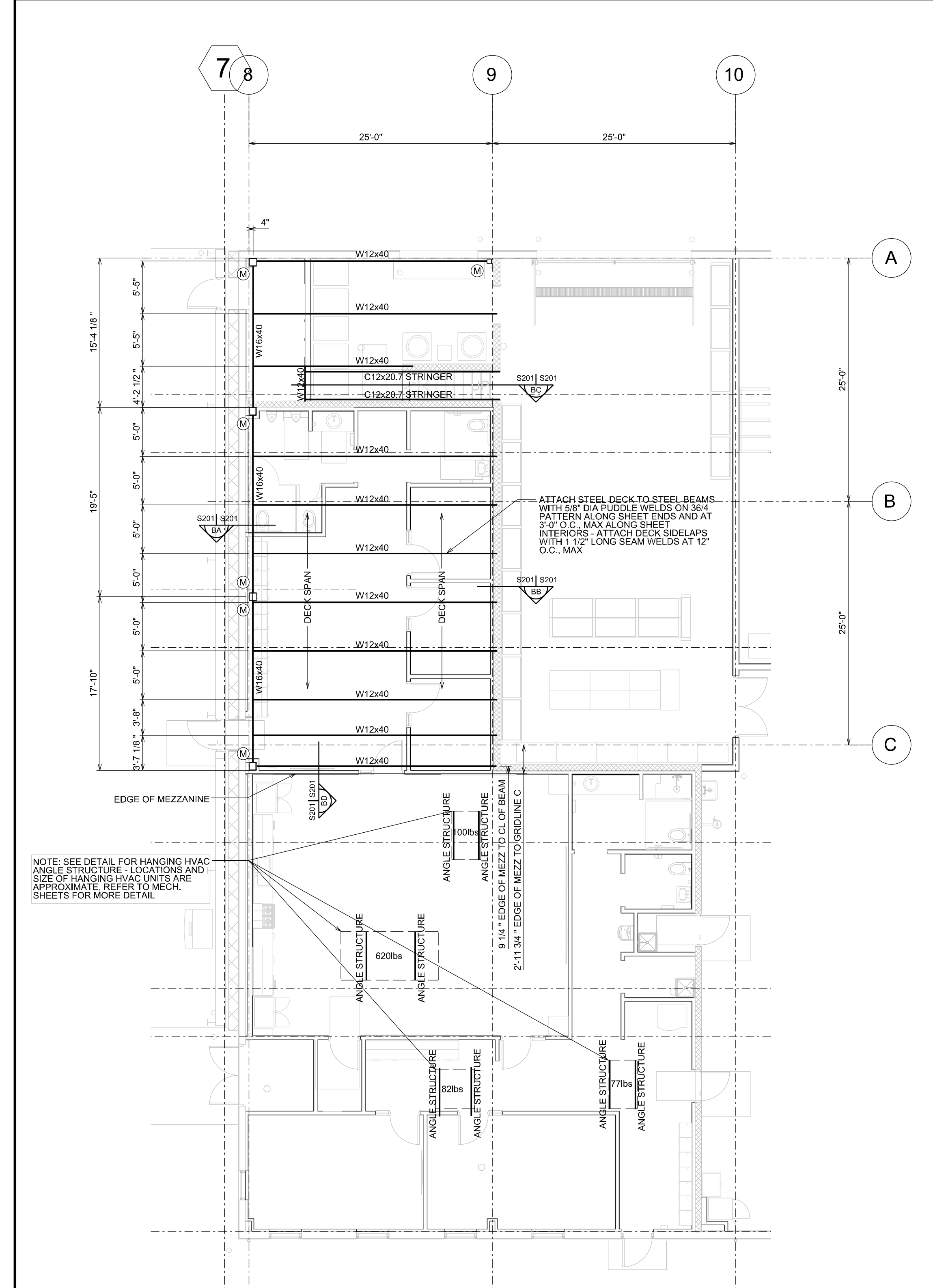
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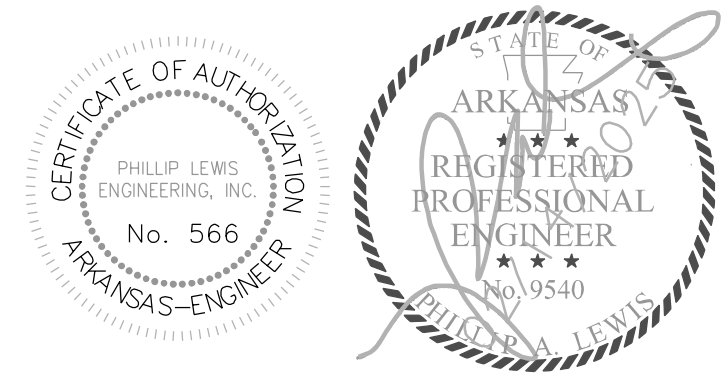
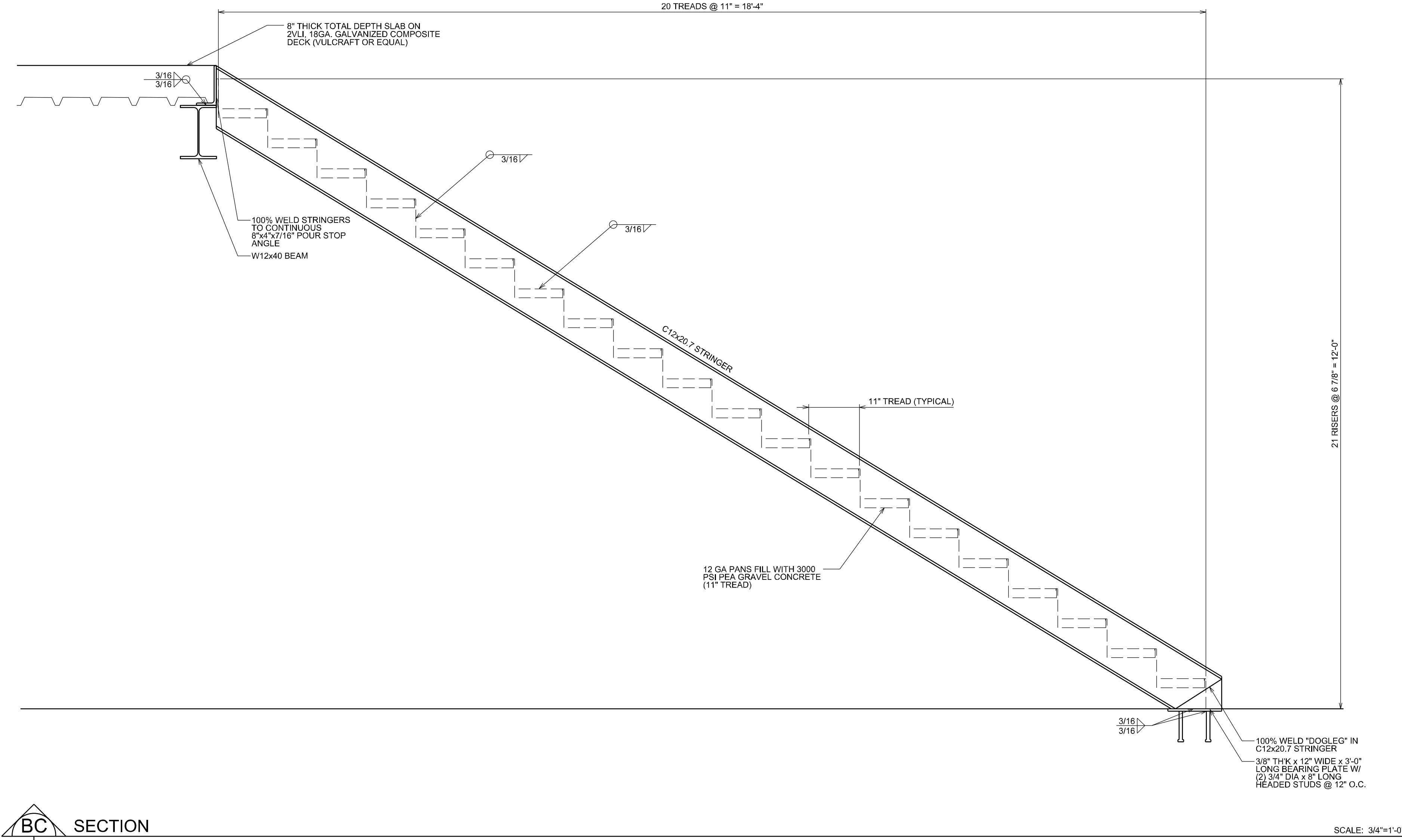
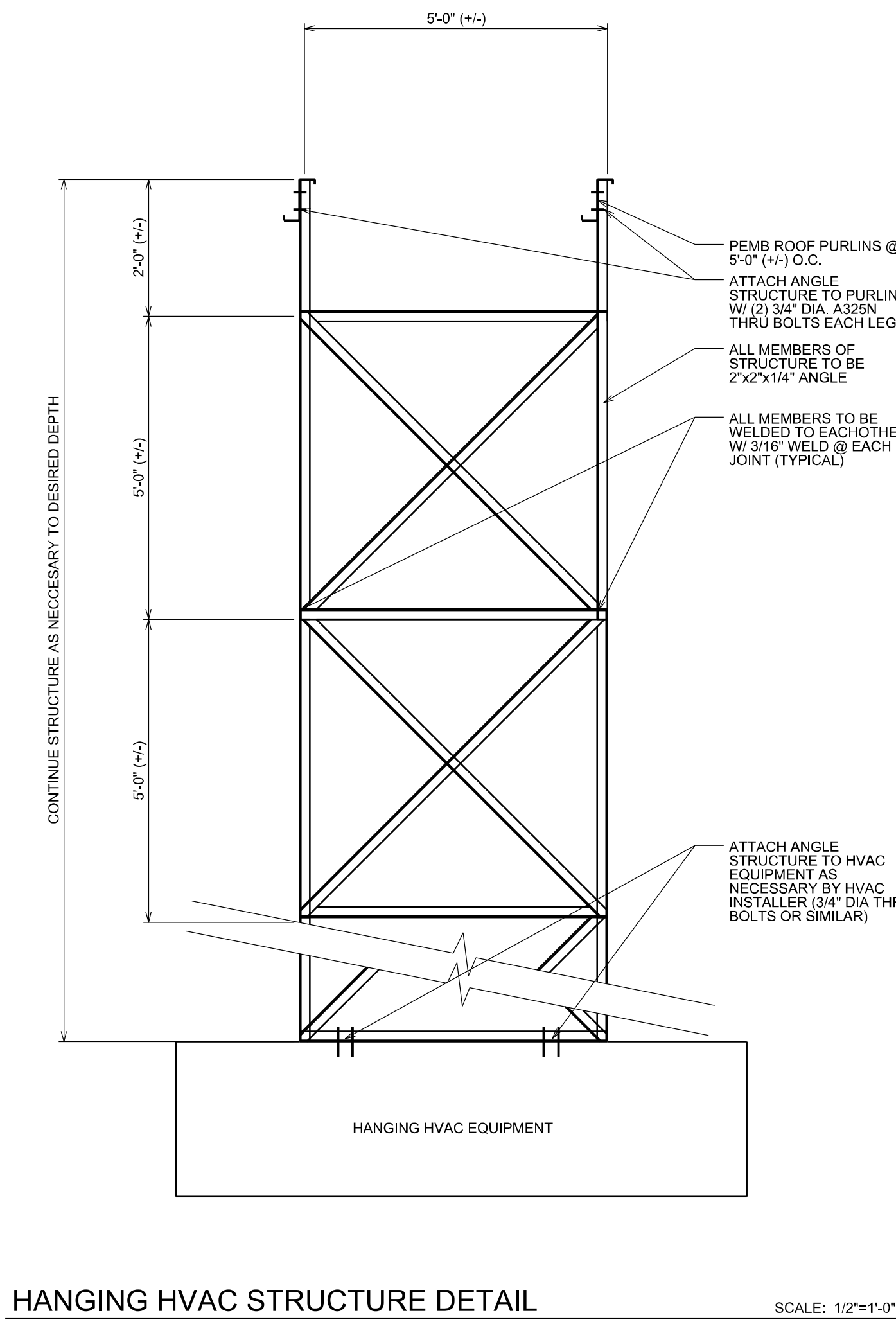
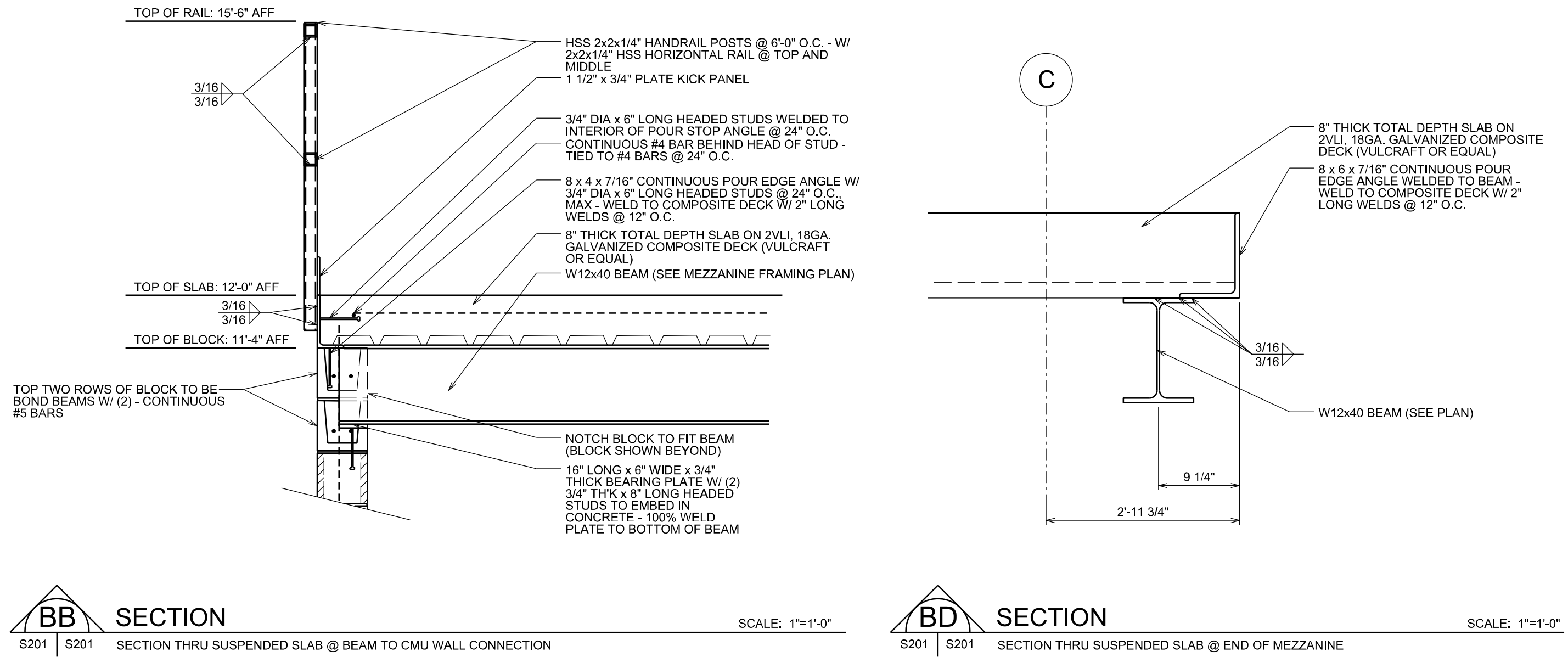
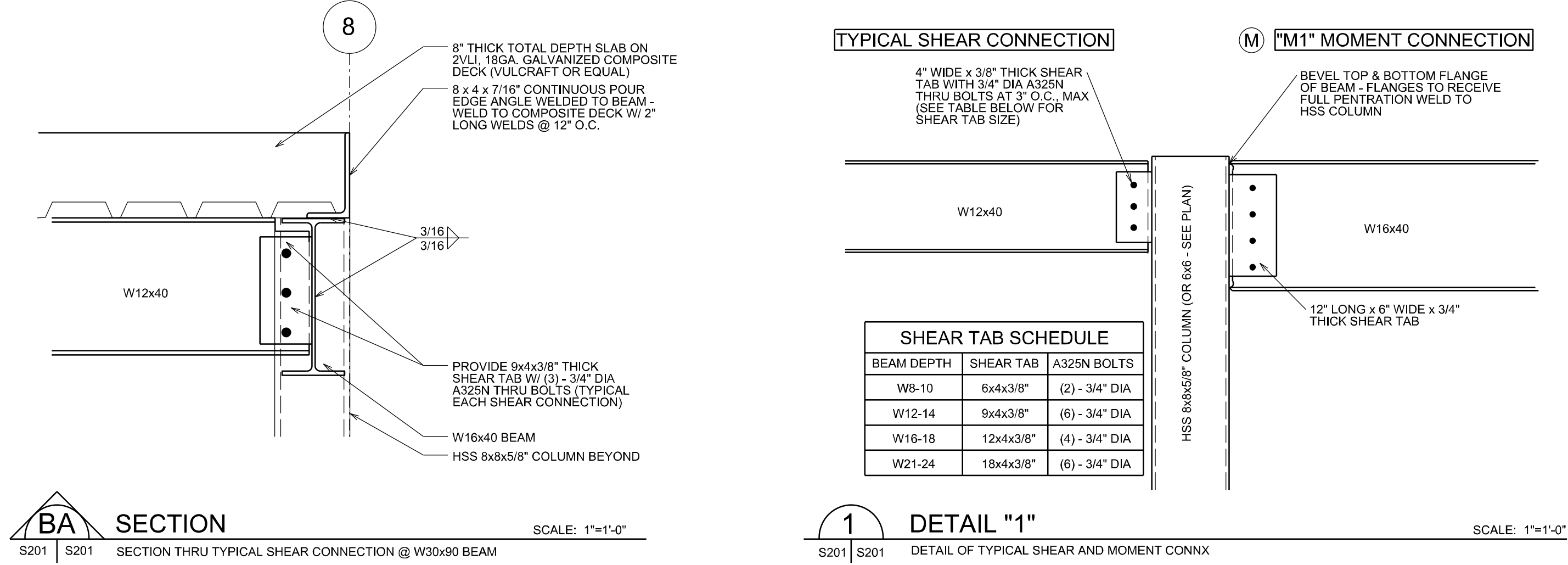


MEZZANINE FRAMING PLAN & PARTIAL HVAC SUPPORT PLAN

1. MEZZANINE FRAMING DESIGNED FOR THE FOLLOWING LOADS:
- 100 PSF - DEAD AND COLLATERAL LOADS
  - 125 PSF - LIVE LOAD
2. (M) DENOTES BEAM TO COLUMN "MOMENT" CONNECTION

STRUCTURAL NOTES

- A. STRUCTURAL STEEL
- ROLLED AND BUILT UP SECTIONS:
    - WB'S THRU W36's - A572 GRADE 50
    - PIPES - A53 - 35 KSI
    - TUBES - A500 GRADE B - 46 KSI
    - BUILT-UP SHAPES - AS INDICATED
    - ALL ELSE - A36 - 36 KSI OR A572 GRADE 50
  - CONNECTIONS:
    - WELD OR BOLT, UNLESS NOTED OTHERWISE
    - DESIGN CONNECTIONS NOT ENTIRELY DETAILED ON DRAWINGS
    - DETAILS SHOW THE RELATIONSHIP BETWEEN MEMBERS AND MAY GIVE LIMITATIONS OR CRITERIA TO BE USED IN DEVELOPING COMPLETE CONNECTION DESIGN AND DETAILS. USE CONNECTIONS FROM PART 4, AISC MANUAL, 9TH EDITION, FOR TS AND PIPE CONNECTIONS
    - USE CONNECTIONS FROM AISC HOLLOW STRUCTURAL SECTIONS CONNECTIONS MANUAL
    - MINIMUM THICKNESS: ANGLES 5/16", PLATES 3/8"
  - WELDED CONNECTIONS:
    - ELECTRODES: 370 SERIES
    - FILLET WELDS: AISC MINIMUM BUT NOT LESS THAN 3/16", UNLESS NOTED
    - GROOVE WELDS: FULL PENETRATION, UNLESS NOTED OTHERWISE
    - WELDS ARE CONTINUOUS UNLESS NOTED OTHERWISE



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

PROJECT TITLE

CONTENTS

MEZZANINE FRAMING PLAN

REVISIONS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	POST BID ADD #1

24-096  
JOB NO.  
02.14.2025  
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**GENERAL NOTES:**

1. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
3. REFER TO GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF PROJECT INCLUDING THE EQUIPMENT AND INSTALLATION OF THE MECHANICAL WORK.
4. CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE EQUIPMENT. THE SUBMITTAL OF AN ALTERNATE SYSTEM OR WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.), IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE SUBMITTER TO VERIFY THE ALTERNATE SYSTEMS AND TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE THE BIDDER'S RESPONSIBILITY.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE SUBMITTER. THE SUBSTITUTION SHALL BE MADE BEFORE AND SUBSEQUENTLY HAVE BEEN PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER. WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH ORIGINAL EQUIPMENT OR COMPONENT AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
11. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATED BY THE GENERAL APPENDMENTS OR NOTES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AND SHALL NOT BE INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN IN PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE REPRESENT THE INTENT. THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THAT ITEM.
11. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER LIGHTING, AND LIGHTING EQUIPMENT SHALL BE COORDINATED WITH OTHER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL, REFLECTED CEILING PLANS FOR SPRINKLER DUCTS AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
12. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND FINISHES.
13. COORDINATE PLACEMENT OF ALL THERMOSTATS, ROOF MOUNTED EQUIPMENT, ETC. WITH ARCHITECTURAL AND STRUCTURAL TRADES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER TRADES FOR COORDINATION OF WORK.
15. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPROVED DRAWINGS WITH OWNER FURNISHED ITEMS UNTIL THE APPROVED DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. VERIFIED THE APPROVED EQUIPMENT HAS THE SAME ROUGH-IN REQUIREMENTS AND COORDINATION REQUIREMENTS AND DESIGN CRITERIA AS THE DOCUMENTS. NOTIFY ENGINEER OF ANY CHANGES, INCOMPATIBILITY, OR UNUSUAL CONDITIONS IMMEDIATELY. THE SPECIFICATIONS, DRAWINGS OR QUANTITIES OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
16. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO FULLY COMPLY WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PENETRATIONS THOROUGHLY REINFORCED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
17. IF NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING ALL ROOF PENETRATIONS.
18. SPECIAL CARE SHALL BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH ALL APPLICABLE REQUIREMENTS.
19. PROVIDE CONCRETE PADS FOR ALL GROUND-MOUNTED EQUIPMENT.
20. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.

**REFRIGERATION PIPING NOTES:**

1. ALL INSTALLATION PROCEDURES SHALL BE AS DIRECTED BY THE REFRIGERATION CONTRACTOR TO INSURE THAT ALL OF THE SYSTEMS ARE COMPATIBLE.
2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL REFRIGERATION PIPING SHALL USE THE SIZES AND DETAILS OF CONSTRUCTION AS DIRECTED BY THE EQUIPMENT MANUFACTURER.
4. DO NOT VENT REFRIGERANT TO THE ATMOSPHERE. RECOVER OR RECLAIM PER THE LATEST REGULATIONS AND ASHRAE GUIDELINES.

**HVAC NOTES:**

REFER TO GENERAL NOTES ON DRAWING FOR ADDITIONAL REQUIREMENTS

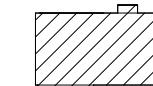
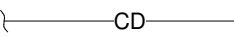










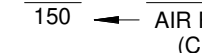
















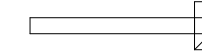



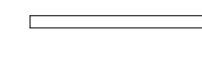





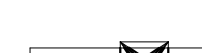




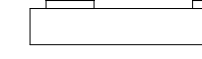


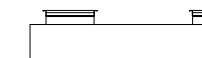




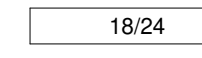

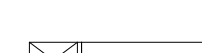
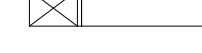
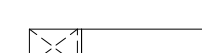
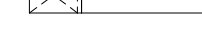

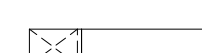
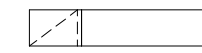

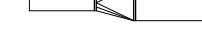
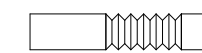

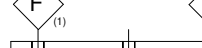
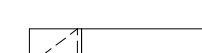


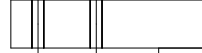
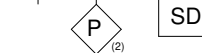



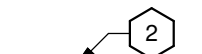









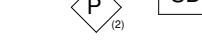





1. PROVIDE ACCESS DROPS TO ALL FIRE DAMPERS, SMOKE DAMPERS, EQUIPMENT, COLLS, ETC. WHERE NOT DIRECTLY ACCESSIBLE THROUGH DUCT DEVICES OR REMOVABLE CEILING GRID. MINIMUM SIZE SHALL BE 12" X 18" UNLESS NOTED OTHERWISE.
2. SEE STRUCTURAL PLANS FOR DUCT DIMENSIONS AND DETAILS OF THE BUILDING.
3. MAINTAIN A MINIMUM OF 18" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS EXHAUST FAN DISCHARGE, FLUES, ETC. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
4. SEAL ALL ROOF AND WALL PENETRATIONS, FLASH AND COUNTERFLASH ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS EIGHT (8) INCHES ABOVE ROOF.
5. ALL HVAC WORK SHALL BE PER SMOA AND ALL APPLICABLE CODES.
6. ALL DUCTS SHALL BE MOUNTED AS HIGH AS POSSIBLE AGAINST BOTTOM OF JOISTS AS REQUIRED TO AVOID CONTACT WITH INTERSECTING DUCTS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING PIPING OR LARGER STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE. PIPING SHALL BE DOUBLED THROUGH.
7. PROVIDING MINIMUM 45 DEGREES TURN. ALL ELBOWS GREATER THAN 45 DEGREES. TURNING CROWN SHALL BE DOUBLED THROUGH.
8. MAXIMUM 4" OF FLEX DUCT ON ALL DIFFUSER RUNOUTS. CONNECTIONS TO FLEX DUCT SHALL BE SMOOTH ON AIRFLOW SIDE.
9. PROVIDE INDICATED BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND BRANCH DUCTS TO A RECTANGULAR DUCT.
10. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO FLEX DUCT THROUGH EXHAUST FANS, AIR BOXES, ETC. WHERE EQUIPMENT HAS ROTATING PARTS (MOTORS, ETC.).
11. SEE ARCH REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DEVICES.
12. WHERE DUCT LINER IS INDICATED, THE DUCT SIZES ON THE DRAWINGS SHALL BE INCREASED IN SIZE TO ACCOMMODATE LINER THICKNESS. SIZE SHOWN ON THE DRAWINGS ARE THE REQUIRED CLEAR INSIDE DIMENSIONS OF THE LINER WHERE USED.
13. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTS. ALL BRANCH DUCTS TO BE EXTERNALLY INSULATED WITH FIBERGLASS DUCT INSULATION WRAP UNLESS OTHERWISE NOTED.
14. THE DUCT SIZES ON THE DRAWINGS SHALL BE INCREASED IN SIZE TO ACCOMMODATE LINER THICKNESS. SIZES SHOWN ON THE DRAWINGS ARE THE REQUIRED CLEAR INSIDE DIMENSIONS OF THE LINER WHERE USED.
15. PROVIDE ALUMINUM JACKETS ON ALL EXTERIOR PIPE INSULATION.
16. INSTALL SCHEDULED FITTERS AT THE COMPLETION OF CONSTRUCTION. USE ONE SET OF SCHEDULED FITTERS DURING CONSTRUCTION AS INDICATED ON THE SCHEDULE. INSTALL FINAL SET PRIOR TO TEST AND BALANCE.
17. BALANCE AIR SYSTEM TO PROVIDE INDICATED AIR FLOWS. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE OF AIR SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.
18. MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
- A) ALL STARTERS: FURNISHED BY MC, INSTALLED BY EC.
- B) DUCT SMOKE DETECTORS: FURNISHED BY EC, INSTALLED BY EC.
- C) ELECTRIC DAMPERS/ACTUATORS: FURNISHED BY MC, INSTALLED BY MC.
- D) DISCONNECTS:
- WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
- WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
19. INSTALL SMOKE DETECTORS IN SUPPLY OR RETURN DAMPERS WHERE INDICATED ON PLANS.
20. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH ARCHITECT AND MECHANICAL CONTRACTOR. THERMOSTATS TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
21. PROVIDE HVAC CONDENSATE DRAIN. INSTALL WITH TRAP AND AIR VENT PER CODE AND IS INDICATED AND FULL SIZE OF DRAIN PAN CONNECTION.
22. PROVIDE AUXILIARY DRAIN PAN FOR COOLING COLLS ABOVE THE CEILING. PROVIDE MOISTURE SENSOR IN PAN TO STOP UNIT AND SIGNAL ALARM.

**CONTROL NOTES:**

REFER TO GENERAL NOTES ON DRAWING

1. ALL CONTROL DEVICES SHALL BE BY ONE MANUFACTURER. ALL CONTROL SET POINTS SHALL BE ADJUSTABLE. THERMOSTATS AND WIRING FOR FANS SHALL BE INCLUDED WITH CONTROLS.
2. THE CONTROL SYSTEM SHALL BE SUITABLE FOR THE LOCATIONS SHOWN ON THE PLANS.
3. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE LOCKABLE COVERS AND GUARDS FOR ALL THERMOSTATS AND SENSORS.
5. ALL THERMOSTATS, SENSORS, AND OTHER EXPOSED CONTROL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND ARCHITECT BEFORE ROUGHING IN.
6. ALL CONTROLS SHALL BE TESTED AND CALIBRATED BEFORE TESTING AND BALANCING IS PERFORMED.
7. PROVIDE LAMINATED TAGS AT ALL CONTROL DEVICES INDICATING EQUIPMENT BEING CONTROLLED.
8. INTERLOCK CONTROLS WITH THE ELECTRICAL FIRE AND SMOKE ALARM SYSTEM COORDINATE WITH THE ELECTRICAL SYSTEMS CONTRACTOR FOR INTERFACE REQUIREMENTS OF THE SYSTEMS.
9. PROVIDE AUXILIARY CONTACTORS AS REQUIRED FOR OPERATIONS OF CONTROL SEQUENCES.
10. ALL WIRING SHALL BE IN CONDUIT. REFER TO SPECIFICATIONS.
11. PROVIDE MONITORING AND CONTROL OF HEAT TAPE

## HVAC LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
AD	AIR DOOR		NEW EQUIPMENT		CONDENSATE DRAIN
AH	AIR HANDLING UNIT				HOT WATER RETURN
A.F.F.	ABOVE FINISHED FLOOR				HOT WATER SUPPLY
AV	ATTIC VENT				REFRIGERANT SUCTION / LIQUID
B	BOILER				MAKE-UP WATER
BHP	BRAKE HORSE POWER	CS	CEILING SUPPLY		
BTUH	BRITISH THERMAL UNIT PER HOUR	DG	DOOR GRILLE		
CFM	CUBIC FEET PER MINUTE	CE	CEILING EXHAUST		
CH	CHILIER	LSD	LINEAR SLOT DIFFUSER		BALL VALVE
CV	CONSTANT VOLUME	CR	CEILING RETURN		
CVB	CONSTANT VOLUME TERMINAL	TR	TRANSFER GRILLE		BUTTERFLY VALVE
DB	DRY BULB TEMPERATURE	SWE	SIDE WALL EXHAUST		
DP	DIFFERENTIAL PRESSURE	SWG	SIDE WALL SUPPLY		CHECK VALVE
EA	EXHAUST AIR	SWR	SIDE WALL RETURN		
EAT	ENTERING AIR TEMPERATURE OF THE COIL				GATE VALVE
EF	EXHAUST FAN				GLOBE VALVE
ERU	ENERGY RECOVERY UNIT	CS-1	MARK 150 AIR FLOW (CFM)		NEEDLE VALVE
ESP	EXTERNAL STATIC PRESSURE				
EUT	ELECTRIC UNIT HEATER		CEILING SUPPLY DIFFUSER		PLUG VALVE
EWI	ENTERING WATER TEMPERATURE				
FAS	FACILITY AUTOMATION SYSTEM		CEILING RETURN GRILLE		PRESSURE REGULATING VALVE
FCU	FAN COIL UNIT				RELIEF VALVE
FO	FLAT OVAL		CEILING EXHAUST GRILLE		SOLENOID VALVE
FFMB	FAN POWERED MIXING TERMINAL				VALVE IN RISER
FFM	FEET PER MINUTE (VELOCITY)		LINEAR SLOT DIFFUSER		PIPE UNION
GH	GRAVITY HOOD				AUTO AIR VENT
GHM	GALLONS PER MINUTE		GRILLE OR REGISTER ON BOTTOM OF DUCTWORK		MANUAL AIR VENT
GUH	GAS UNIT HEATER				EOCENTRIC TRANSITION
HP	HORSEPOWER		SIDEWALL SUPPLY/RETURN		CONCENTRIC TRANSITION
KW	KILOWATT				PRESSURE GAUGE
L	LOUVER		DUCT SIZE (FOR DOUBLE LINE DUCT)		STEAM TRAP
LAT	LEAVING AIR TEMPERATURE OF THE COIL				STRAINER (Y-TYPE)
LBS	POUNDS		SUPPLY DUCT UP		TEMPERATURE & PRESSURE PLUG
LWT	LEAVING WATER TEMPERATURE				THERMOMETER
MAU	MAKE-UP AIR UNIT		RETURN OR EXHAUST DUCT UP		DIRECTION OF FLOW
MAX.	MAXIMUM		RETURN OR EXHAUST DUCT DOWN		DIRECTION OF FLOW
MBH	1000 BTUH		RECTANGULAR/ROUND TRANSITION (DOUBLE LINE DUCT)		FLEXIBLE PIPE CONNECTION
MCA	MINIMUM CIRCUIT AMPACITY				FLEXIBLE PIPE CONNECTION
MIN.	MINIMUM		(1) FIRE DAMPER, (2) COMBINATION FIRE/SMOKE DAMPER, (3) SMOKE DAMPER		FLEXIBLE PIPE CONNECTION
MHP	MOTOR HORSE POWER				PIPE DOWN
MCP	MAXIMUM OVER CURRENT PROTECTION		(1) OPPOSED BLADE DAMPER, (2) PARALLEL BLADE DAMPER, (3) SMOKE DETECTOR		TEE DOWN
N/A	NOT APPLICABLE				PIPE UP
NC	NOISE CRITERIA				TEE UP
N.C.	NORMALLY CLOSED				BRANCH - BOTTOM OF PIPE
NIC	NOT IN CONTRACT		THERMOSTAT OR SENSOR		BRANCH - TOP OF PIPE
N.O.	NORMALLY OPEN				
NK	NECK		KEYED NOTE		
NTS	NOT TO SCALE				
OSD	OPPOSED BLADE DAMPER		RECTANGULAR/ROUND TRANSITION (DOUBLE LINE DUCT)		
OCFI	OWNER FURNISHED/CONTRACTOR INSTALLED		FLEXIBLE DUCT CONNECTION		
OSA	OUTSIDE AIR				
P	PUMP				
PBD	PARALLEL BLADE DAMPER				
PDU	POOL DEHUMIDIFIER UNIT				
PRV	PRESSURE REDUCING VALVE				
PSF	POUNDS PER SQUARE FOOT				
PSI	POUNDS PER SQUARE INCH				
PSIG	POUNDS PER SQUARE INCH GAUGE				
RA	RETURN AIR				
RC	REMOTE CONDENSER				
RF	RELIEF FAN				
RH	RELATIVE HUMIDITY				
RHP	REDIANT HEATING PANEL				
RPM	REVOLUTION PER MINUTE				
RTH	RADIANT TUBE HEATER				
RTU	ROOF TOP (AIR CONDITIONING) UNIT				
SA	SUPPLY AIR				
SC	SENSIBLE CAPACITY				
SP	STATIC PRESSURE				
SPEC.	SPECIFICATION				
TC	TOTAL CAPACITY				
TSP	TOTAL STATIC PRESSURE				
T-STAT	THERMOSTAT				
TYP.	TYPICAL				
UH	UNIT HEATER				
VAV	VARIABLE AIR VOLUME				
VAVB	VARIABLE AIR VOLUME TERMINAL				
VSD	VARIABLE SPEED (FREQUENCY) DRIVE				
WB	WET BULB TEMPERATURE				
WG	WATER GAUGE				
'	FEET				
"	INCHES				
Ø	ROUND DUCT				

DETAIL/SECTION NUMBER

DETAIL/SECTION DESIGNATION

SHEET NUMBER

\* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

## MECHANICAL DRAWING INDEX

M001	MECHANICAL NOTES, LEGEND, & INDEX
M101	HVAC FLOOR PLAN
M102	MEZZANINE MECHANICAL PLANS
M201	MECHANICAL PIPING FLOOR PLAN
M301	MECHANICAL SECTIONS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M501	MECHANICAL SCHEDULES



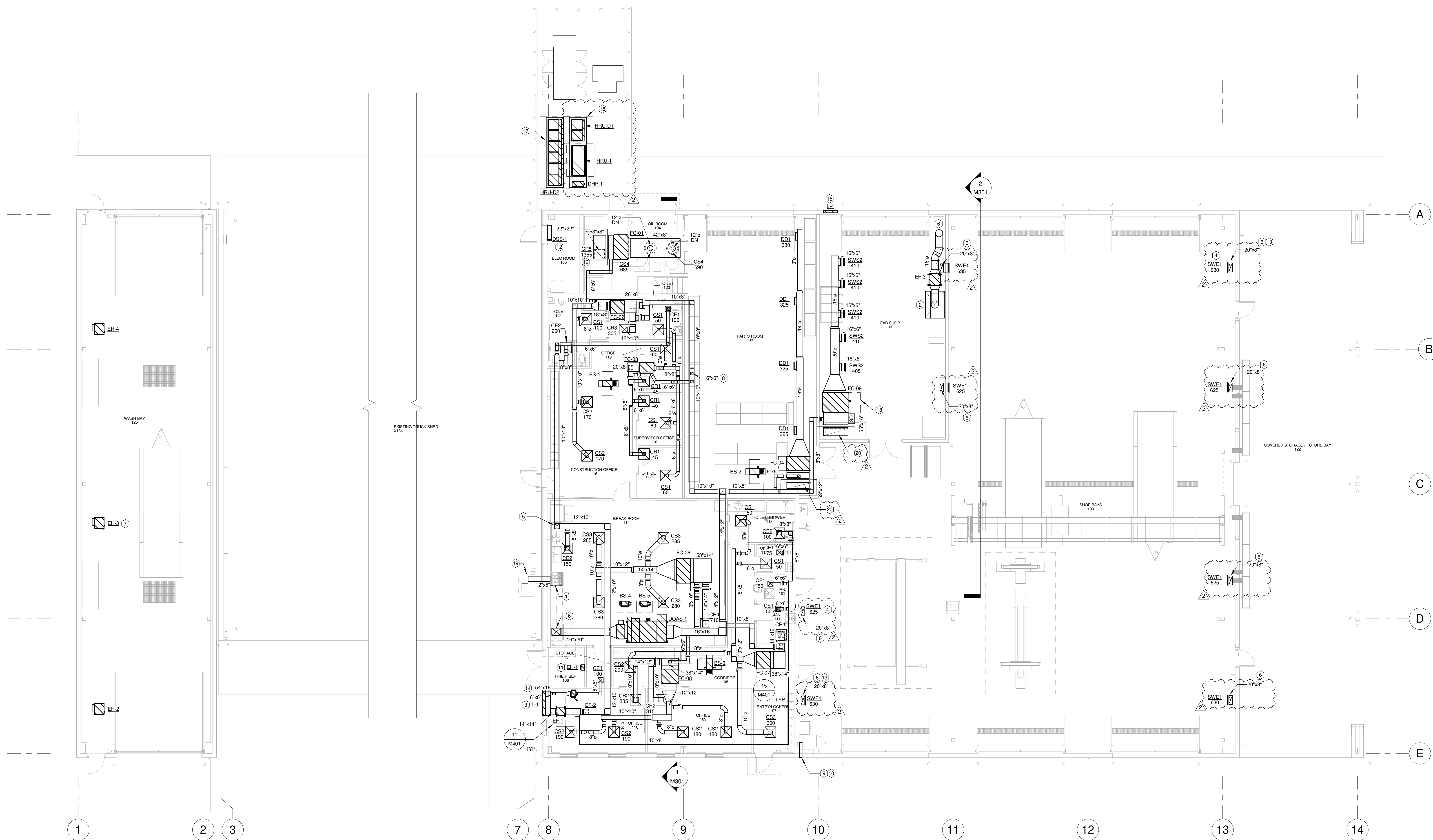
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ISSUE SET

M101



1  
M101  
1/8" = 1'-0"

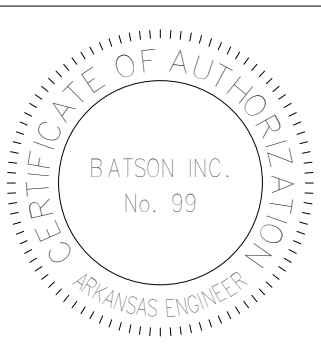
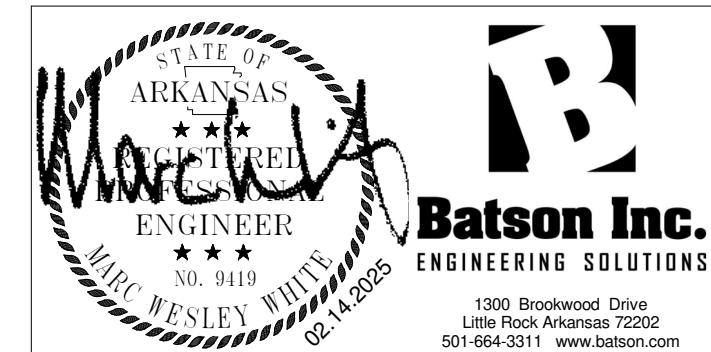
**HVAC FLOOR PLAN**

1/8" = 1'-0"

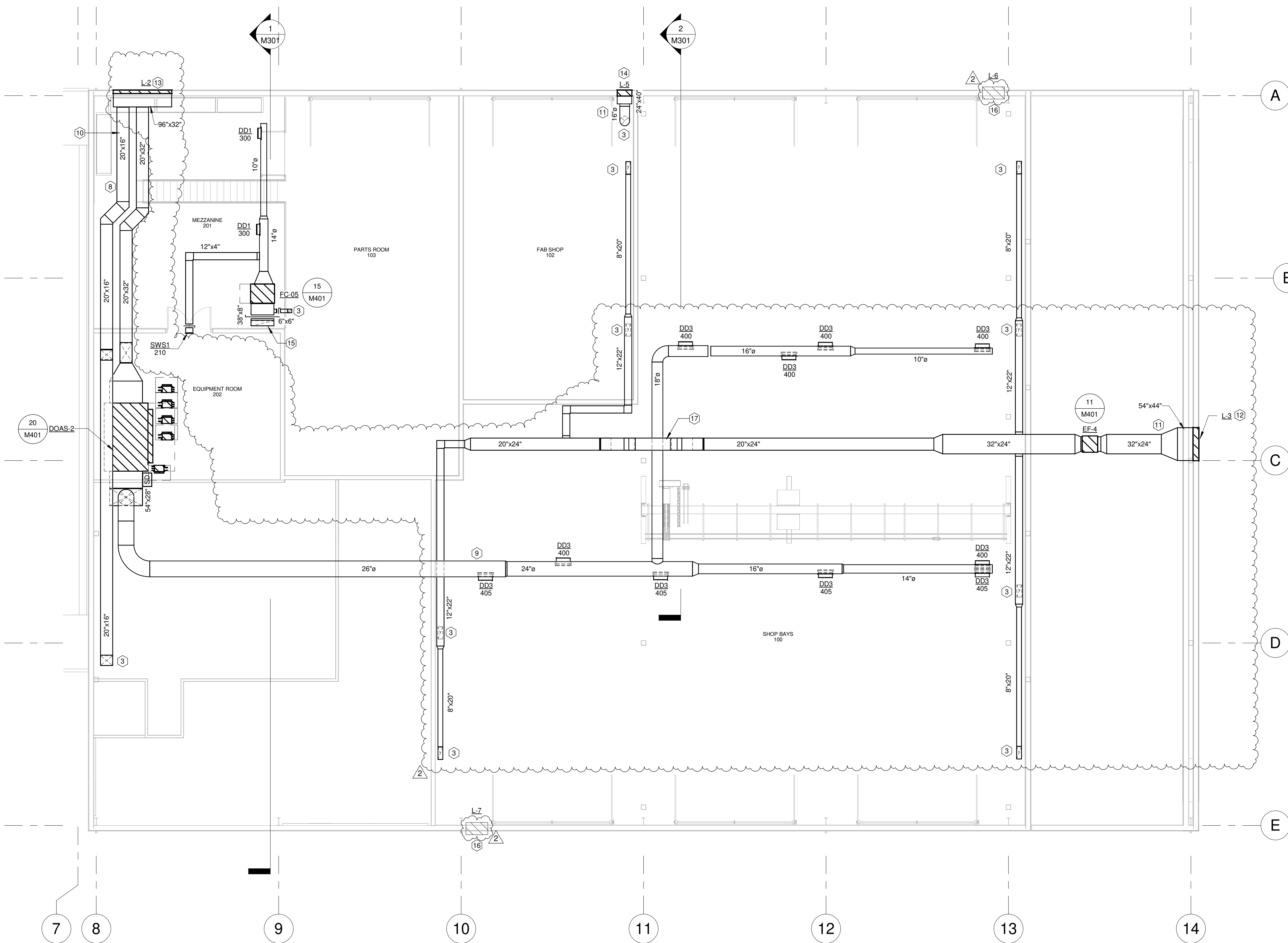
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**KEYED NOTES:**

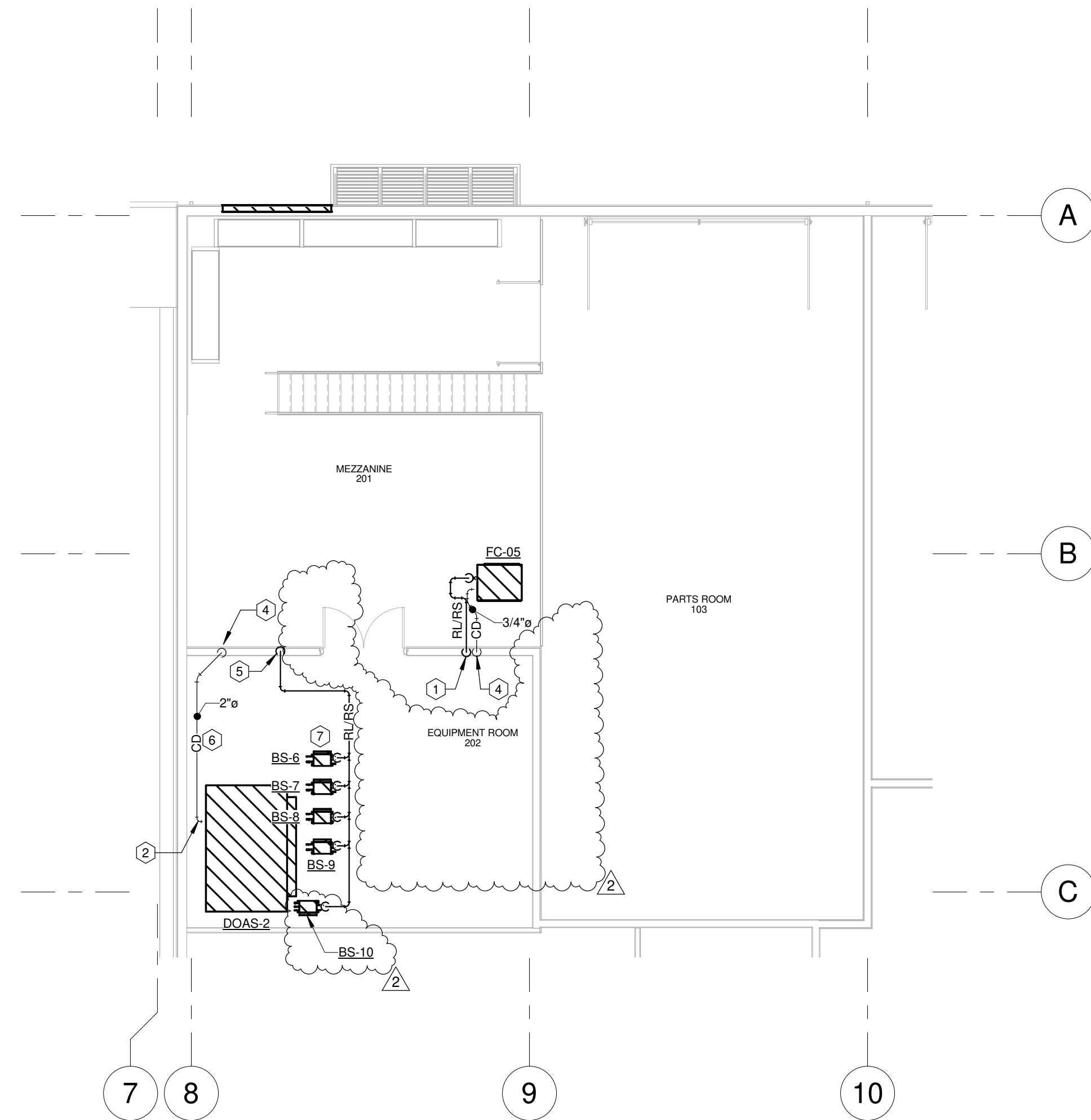
- GREENHECK MODEL GRPS FIRE READY HOOD WITH INTEGRAL FAN, REAR DISCHARGE, FINISHED TOP AND WALL CAP. LOCATE HOOD PER ARCHITECT.
- 5' X 3.5' STAINLESS STEEL EXHAUST HOOD OVER PLASMA CUTTER. SEE DETAIL 17/M401.
- BOTTOM OF LOUVER MOUNTED 13'-6" A.F.F.
- INSTALL BOTTOM OF GRILLE 12" A.F.F. WITHIN SHOP BAY. (TYPICAL OF 8)
- DUCT DROPS INTO CHASE ABOVE MILLWORK.
- DUCT RISES TO MEZZANINE LEVEL ABOVE. SEE 1/M102 FOR CONTINUATION. PROVIDE MANUAL BALANCING DAMPER IN RISER.
- UNIT HEATER MOUNTED 9'-0" A.F.F. (TYPICAL OF 3)
- DUCT RISES TO FC-05. SEE 1/M102 FOR CONTINUATION.
- ALL ALUMINUM DRYER VENT WALL CAP WITH BACKDRAFT DAMPER.
- 6" ALL ALUMINUM RESIDENTIAL DRYER VENT INSTALLED AS PER SECTION 504 OF THE "ARKANSAS MECHANICAL CODE".
- BOTTOM OF UNIT HEATER MOUNTED 18" A.F.F.
- DSS-1 MOUNTED ABOVE DOOR.
- EXHAUST DUCT TO BE SECURED TO WALL A MINIMUM OF 3 LOCATIONS PER DETAIL 19/M401. (TYPICAL)
- EXHAUST DUCTS TO CONNECT TO LOUVER WITH SHEET METAL PLENUM.
- BOTTOM OF LOUVER MOUNTED 18" A.F.F.
- RETURN DUCT RISES FROM GRILLE TO STUB INTO BOTTOM OF LINED PLENUM.
- OUTDOOR UNIT MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD ABOVE EQUIPMENT YARD CONCRETE PAD. PAD TO EXTEND 4" BEYOND MECHANICAL EQUIPMENT ON ALL SIDES WITH CONSTRUCTION PER STRUCTURAL. (TYPICAL)
- MANUFACTURER'S REQUIRED CLEARANCE. (TYPICAL)
- WALL CAP.
- TERMINATE RETURN DUCT WITH DOWN-TURNED ELBOW. COVER OPENING WITH EXPANDED WIRE MESH.







**1 MEZZANINE HVAC PLAN**  
1/8" = 1'-0"



**2 MEZZANINE MECHANICAL PIPING PLAN**  
1/8" = 1'-0"

**KEYED NOTES:**

- REFRIGERANT LINE SET RISE UP FROM BRANCH SELECTOR BS-1 BELOW.
- PROVIDE CONDENSATE TRAP PER DETAIL 13/M401.
- DUCT DROPS TO FLOOR BELOW. SEE 1/M101 FOR CONTINUATION.
- CONDENSATE LINE DROPS IN WALL TO PLENUM BELOW. SEE 1/M201 FOR CONTINUATION.
- REFRIGERANT LINE SETS RISE IN WALL FROM PLENUM BELOW. SEE 1/M201 FOR CONTINUATION.
- CONDENSATE DRAIN LINE SUPPORTED OFF EQUIPMENT ROOM FLOOR PER DETAIL 12/M401.
- BRANCH SELECTOR MOUNTED HIGH IN SPACE. SUPPORT FROM ROOF STRUCTURE SIMILAR TO FAN COILS AND EXHAUST FANS. (TYPICAL)
- OUTSIDE AIR INTAKE DUCTS TO BE INSULATED WITH 2" FIBERGLASS WRAP.
- SUPPLY AIR DUCTS FROM DDAS-2 AND 3 TO BE DOUBLE WALL LINED SHEET METAL.
- OUTSIDE AIR INTAKE DUCTS TO CONNECT TO LOUVER L-2 WITH LINED SHEET METAL PLENUM.
- EXHAUST DUCT TO CONNECT TO LOUVER WITH SHEET METAL PLENUM.
- BOTTOM OF LOUVER MOUNTED 26'-3" A.F.F.
- BOTTOM OF LOUVER MOUNTED 23'-6" A.F.F.
- BOTTOM OF LOUVER MOUNTED 23'-2" A.F.F.
- TERMINATE RETURN DUCT WITH DOWN-TURNED ELBOW. COVER OPENING WITH EXPANDED WIRE MESH.
- TOP OF LOUVER MOUNTED 26'-0" A.F.F.
- EXHAUST DUCT RISES ABOVE 18'0" OUTSIDE SUPPLY AIR DUCT ABOVE CRANE.





## MECHANICAL PIPING FLOOR PLAN

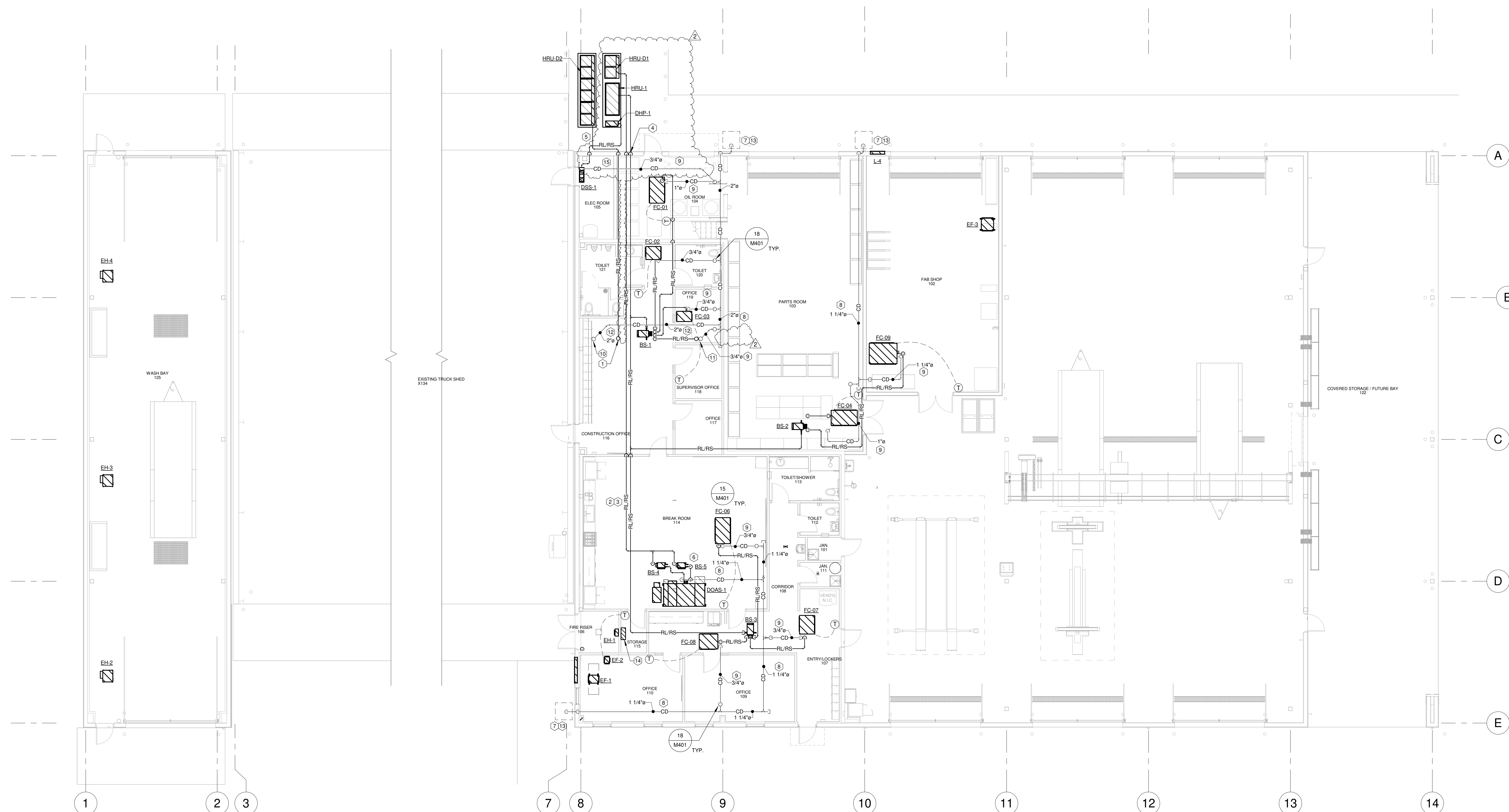
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M201



**MECHANICAL PIPING FLOOR PLAN**

### KEYED NOTES:

- 1 REFRIGERANT LINES UP TO DOWLS 2 LOCATED ON MEZZANINE. SEE 2M102 FOR CONTINUATION.
- 2 PIPING TO BE SUPPORTED FROM STRUCTURE ABOVE PER DETAIL 12M401. (TYPICAL)
- 3 REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER. (TYPICAL)
- 4 REFRIGERANT PIPING TO RISE IN EXTERIOR WALL, SLEEVE AND SEAL WALL PENETRATION.
- 5 SUPPORT REFRIGERANT PIPING IN MECHANICAL YARD PER DETAIL 12M401. (TYPICAL)
- 6 PROVIDE AUXILIARY DRAIN PAN AND MOISTURE SENSOR BENEATH REFRIGERANT BRANCH SELECTORS. (TYPICAL)
- 7 CONDENSATE DRAIN PIT PER DETAIL 14M401.
- 8 ROUTE TYPE 'L' COPPER GRAVITY CONDENSATE DRAIN LINE TO CONDENSATE DRAIN PIT. (TYPICAL)
- 9 ROUTE TYPE 'L' COPPER PUMPED CONDENSATE DRAIN LINE FROM FAN COIL UNITS TO HUB DRAIN IN GRAVITY CONDENSATE LINE. (TYPICAL)
- 10 2" CONDENSATE LINE DROPS FROM MEZZANINE ABOVE.
- 11 REFRIGERANT LINE SET AND CONDENSATE LINE UP TO FAN COIL PG-65 LOCATED ON MEZZANINE.
- 12 CONDENSATE DRAIN LINE ROUTED HIGH IN BETWEEN BEAMS.
- 13 CONDENSATE DRAIN LINE DROPS WITHIN EXTERIOR WALL TO CONDENSATE DRAIN PIT. SLEEVE AND SEAL WALL PENETRATION.
- 14 BAS CONTROL PANEL.
- 15 COORDINATE EXACT ROUTING OF CONDENSATE DRAIN PIPING AND REFRIGERANT PIPING WITH ELECTRICAL GEAR





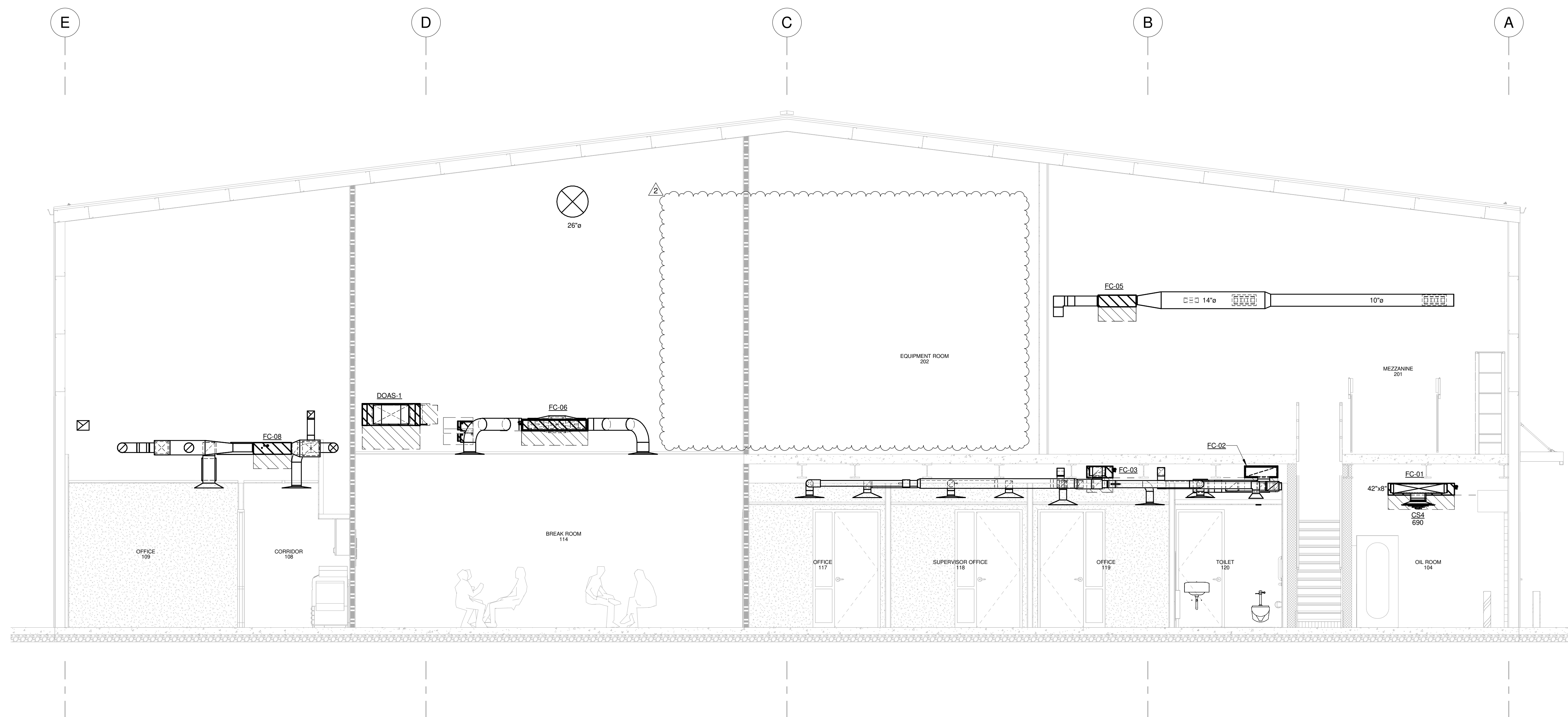
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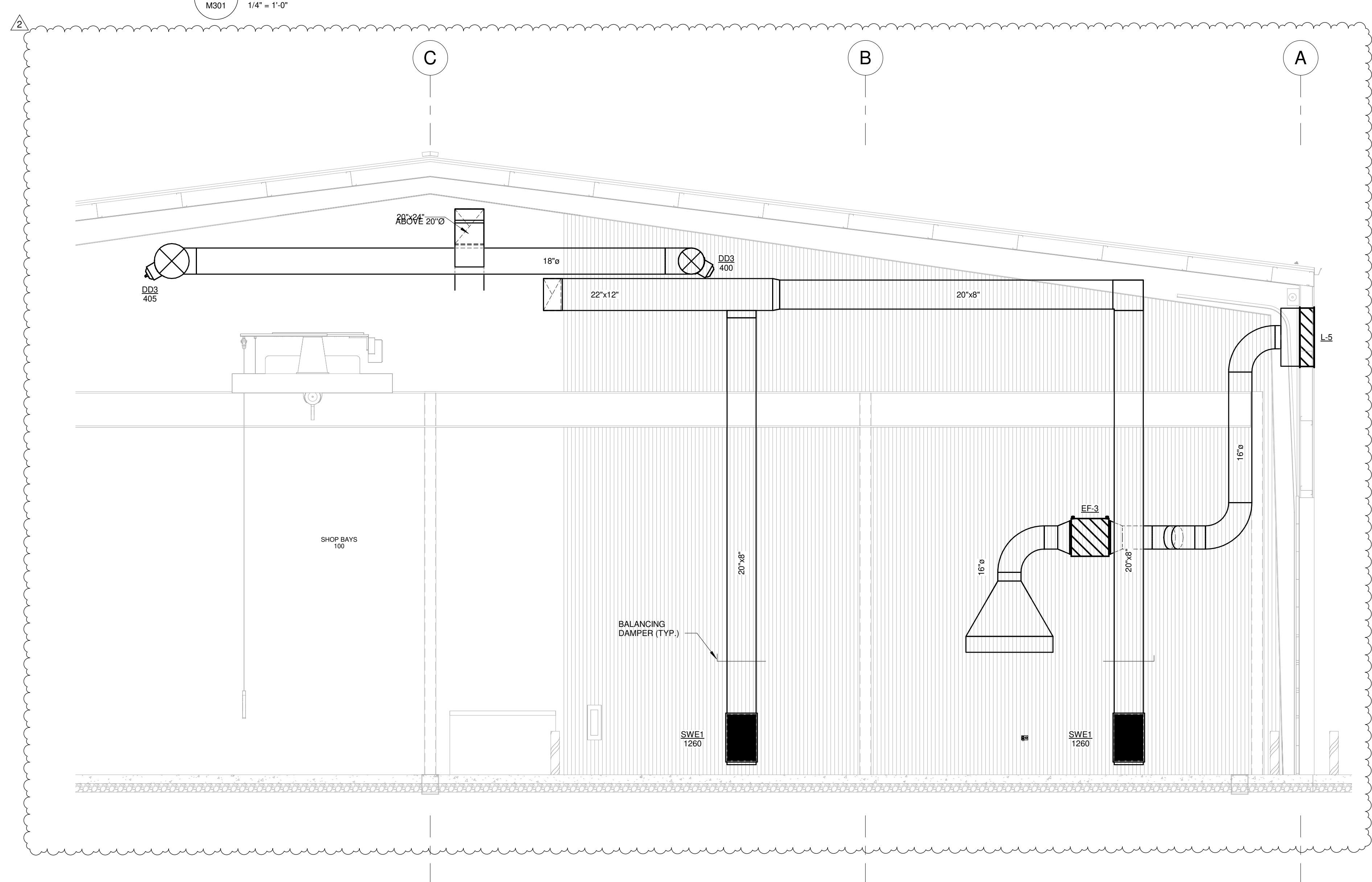
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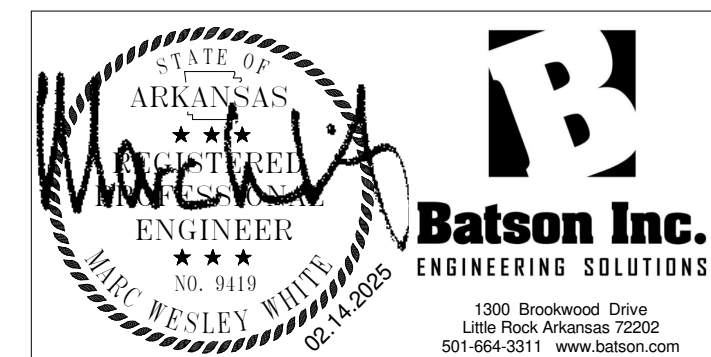
M301



**OFFICE AREA DUCTWORK SECTION**



**SHOP AREA DUCTWORK SECTION**





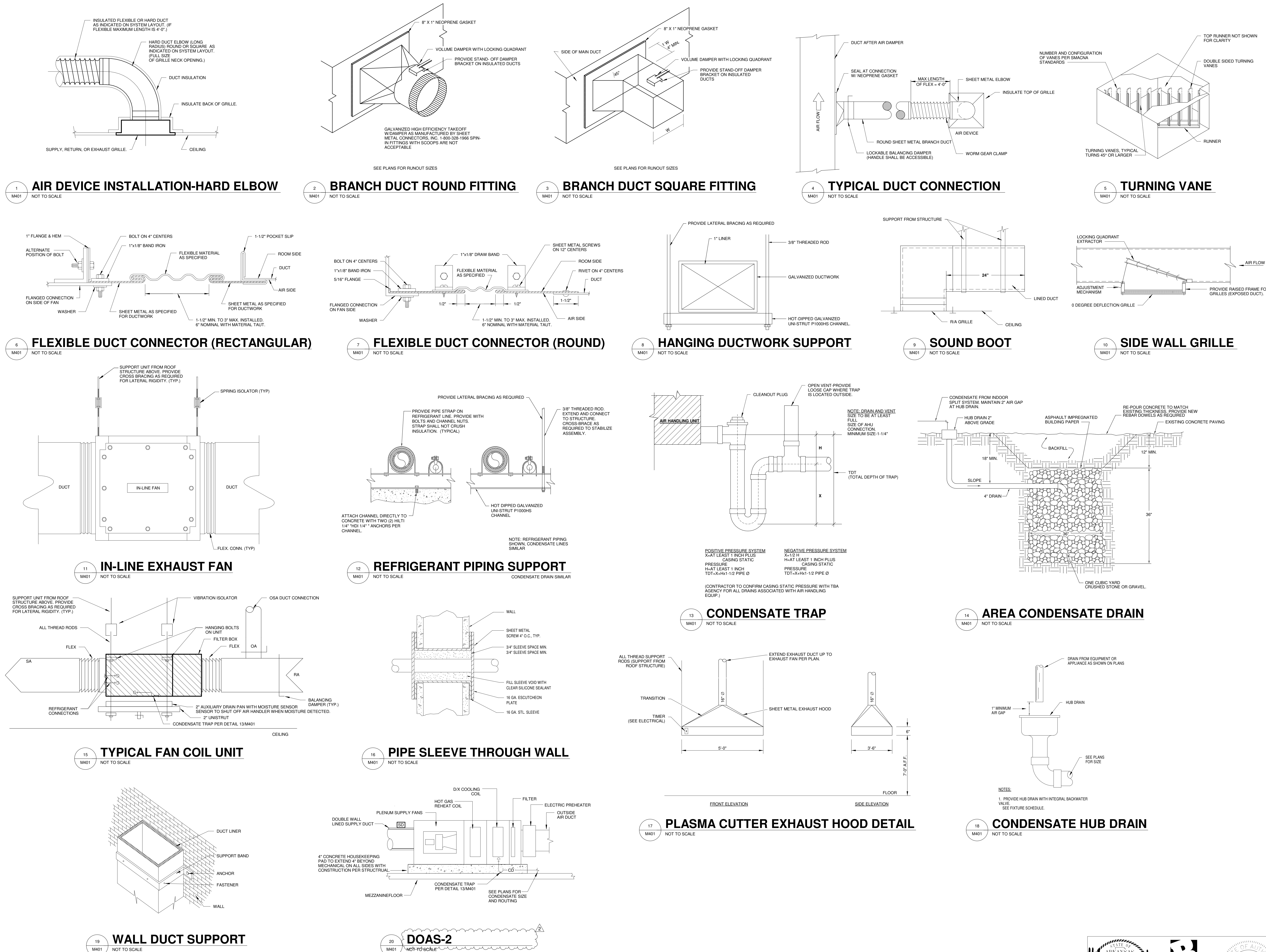
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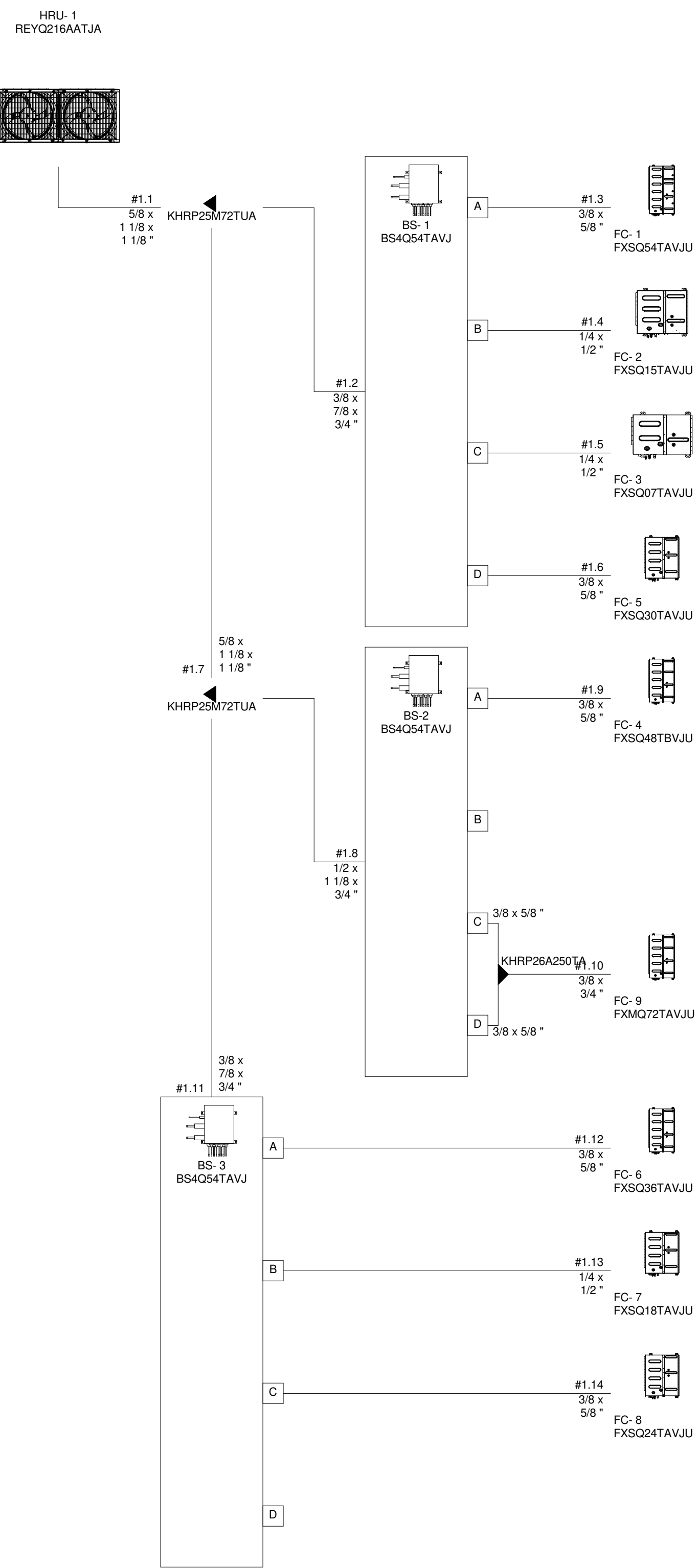
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ISSUE SET

M401







HRU-D1  
REVG144XATJB

#2.1  
1/2" x  
1 1/8" x  
7/8"

KHRP25M72TUA

#2.2  
1/2" x  
1 1/8" x  
3/4"

BS-4  
BS4C54TAVJ

A 3/8" x 5/8"

B 3/8" x 5/8"

C 3/8" x 5/8"

D 3/8" x 5/8"

KHRP26A250T #2.3  
3/8" x  
3/4"

DCAS-1 DX box 1  
EKEKV200-US

1 DX

DOAS-1

#2.4  
3/8" x  
3/4"

KHRP26A250T #2.4

DCAS-1 DX box 2  
EKEKV200-US

2 DX

#2.5  
3/8" x  
5/8" x  
1/2"

BS-5  
BS4C54TAVJ

A 1/4" x  
1/2"

B 1/4" x  
1/2"

C 1/4" x  
1/2"

D 1/4" x  
1/2"

#2.6  
1/4" x  
1/2"

DCAS-1 RH box 1  
EKEKV50-US

1 RH

#2.7  
1/4" x  
1/2"

DCAS-1 RH box 2  
EKEKV50-US

2 RH

HRU-D2  
REYQ38XATJB  
B  
REYQ120XATJB  
C  
REYQ120XATJB

A  
REYQ144XATJB

1/2x1 1/8x7/8" 1/2x1 1/8x3/4" 5/8x1 3/8x1 1/8" 1/2x1 1/8x3/4"

BHFP25P151UA

#3.1 3/4 x 1 5/8 x 1 3/8" KHRP25M73TUA

#3.2 3/8 x 7/8 x 3/4" BS 6 BSQ96TAVJ

#3.3 3/8 x 7/8" DOAS-2 DX box 1 EKEKV250-US

#3.4 3/4 x 1 5/8 x 1 1/8" KHRP25M73TUA

#3.5 3/8 x 7/8 x 3/4" BS 7 BSQ96TAVJ

#3.6 3/8 x 7/8" DOAS-2 DX box 2 EKEKV250-US

#3.7 3/4 x 1 3/8 x 1 1/8" KHRP25M73TUA

#3.8 3/8 x 7/8 x 3/4" BS 8 BSQ96TAVJ

#3.9 3/8 x 7/8" DOAS-2 DX box 3 EKEKV250-US

#3.10 5/8 x 1 1/8 x 1 1/8" KHRP25M72TUA

#3.11 3/8 x 7/8 x 3/4" BS 9 BSQ96TAVJ

#3.12 3/8 x 7/8" DOAS-2 DX box 4 EKEKV250-US

#3.13 3/8 x 7/8 x 3/4" BS 10 BSQ96TAVJ

#3.14 1/4 x 1/2" DOAS-2 RH box 1 EKEKV50-US

#3.15 1/4 x 1/2" DOAS-2 RH box 2 EKEKV50-US

#3.16 1/4 x 1/2" DOAS-2 RH box 3 EKEKV50-US

#3.17 1/4 x 1/2" DOAS-2 RH box 4 EKEKV50-US

1 DX 2 DX 3 DX 4 DX 1 RH 2 RH 3 RH 4 RH

DOAS-2

**CRAIGHEAD ELECTRIC**  
**MAINTENANCE SHOP ADDITION**  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

## MECHANICAL DETAILS

NO.	DATE	DESCRIPTION
1	04/03/25	Post Bid ADD #1

24-096

02.14.2025

## ISSUE SET

# M402





VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

MARK	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE FACTORY CHARGE (LBS)	CONNECTION RATIO (%)	ELECTRICAL												MANUFACTURER	MODEL	WEIGHT (LBS)	EFFICIENCY					REMARKS	
			BTU/h	AMBIENT DESIGN ("F DB)	BTU/h	AMBIENT DESIGN ("F DB / WB)			VOLTAGE / PHASE	MCA			MOP			RLA														
										MOD #1	MOD #2	MOD #3	TOTAL	MOD #1	MOD #2	MOD #3	TOTAL	MOD #1	MOD #2	MOD #3				TOTAL						
HRU-1	18	AIR COOLED HEAT RECOVERY (1)	210,157	100	173,914	10.0 / 8.0	25.79	141	208V / 3	67.2	--	--	67.2	70.0	--	--	70.0	40.0	--	--	40.0	DAIKIN	REYQ216AATJA	996.8	11	20.5	3.25	2.05	21.9	
HRU-D1	12	AIR COOLED HEAT RECOVERY (1)	140,838	100	137,685	10.0 / 8.0	25.79	100	208V / 3	58.3	--	--	58.3	70.0	--	--	70.0	42.6	--	--	42.6	DAIKIN	REYQ144XATJB	727	11.6	21.6	3.42	2.12	22	
HRU-D2	32	AIR COOLED HEAT RECOVERY (9)	372,618	100	297,936	10.0 / 8.0	77.4	100	208V / 3	98.3	43.0	43.0	144.3	70.0	50.0	50.0	170.0	42.6	28.2	28.2	99.0	DAIKIN	REYQ284XATJB	727.0 / 727.0/727.0	9.9	17.6	3.2	20.6	17	
HRU-D3		NOT USED	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED

DEDICATED OUTDOOR AIR UNIT SCHEDULE

MARK	LOCATION	SERVES	FAN DATA			TOTAL CAPACITY (MBH)	COOLING DX SENSIBLE CAPACITY (MBH)	HEATING DX		HGRH COIL		ELECTRIC PREHEAT		UNIT ELECTRICAL DATA				MANUFACTURER	MODEL	REMARKS		
			CFM	ESP	POWER (KW)			EDB/EWB	LDB/LWB	CAPACITY (MBH)	EDB/LDB	KW	SEAPARATE ELECTRICAL CONNECTION	VOLTS/PHASE	MCA	MOP	FLA					
DOAS-1	BREAKROOM 114	OFFICE AREA / FAB SHOP/ PARTS ROOM	1590	0.75	0.78	127.3	72.5	96/77	54.7/53.7	108.2	17/80	43.4	55/60	6	YES	208/1	8.8	15.0	8.6	OXYGEN 8	T18N	PROVIDE DAIKIN VALVE INTEGRATION KIT
DOAS-2	EQUIPMENT ROOM 202	SHOP BAYS 100	4020	0.75	1.6	372.5	210.8	99/78	51.5/51.0	238.8	17/72	79.5	52/70	15	NO	208/3	52.1	60.0	41.7	OXYGEN 8	T48N	PROVIDE DAIKIN VALVE INTEGRATION KIT
DOAS-3	NOT USED	NOT USED	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED

VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

MARK	NOMINAL TONNAGE	TYPE	CONNECTED TO:		DESIGN AIRFLOW (CFM)	OSA AIRFLOW (CFM)	COOLING CAPACITY				HEATING CAPACITY		ELECTRICAL			MANUFACTURER	MODEL	DIMENSIONS		WEIGHT	REMARKS
			CONDENSING UNIT	ZONE CHANGE/COVER DEVICE			TOTAL BTU/h	EAT		TOTAL BTU/h	EAT °Fdb	VOLTS - PHASE	MCA	MOP	WxHxD						
								°F DB	°F WB												
																		inch	lbs		
FC-01	4.5	MSP Concealed Ducted Unit	HRU-1	Yes	1,377	20	43,675	32,943	72.5	61	99,992	68	208-230V 1ph	3.3	15	DAIKIN	FXSQ54TAVJU	61.0 x 9.6 x 31.5	104		
FC-02	1.3	MSP Concealed Ducted Unit	HRU-1	Yes	441	320	12,079	8,902	70.5	61	16,411	68	208-230V 1ph	1.4	15	DAIKIN	FXSQ15TAVJU	27.6 x 9.6 x 31.5	60		
FC-03	0.6	MSP Concealed Ducted Unit	HRU-1	Yes	230	50	6,210	4,684	71.4	61	8,308	68	208-230V 1ph	0.8	15	DAIKIN	FXSQ07TAVJU	21.7 x 9.6 x 31.5	55		
FC-04	4	MSP Concealed Ducted Unit	HRU-1	Yes	1307	75	38,834	28,200	71.6	61	53,295	68	208-230V 1ph	2.8	15	DAIKIN	FXSQ48TAVJU	55.1 x 9.6 x 31.5	104		
FC-05	2.5	MSP Concealed Ducted Unit	HRU-1	Yes	812	80	24,226	18,186	71.1	61	33,505	68	208-230V 1ph	1.8	15	DAIKIN	FXSQ30TAVJU	39.4 x 9.6 x 31.5	82		
FC-06	3	MSP Concealed Ducted Unit	HRU-1	Yes	1130	420	29,140	18,221	68.2	61	37,859	68	208-230V 1ph	2.5	15	DAIKIN	FXSQ36TAVJU	55.1 x 9.6 x 31.5	101		
FC-07	1.5	MSP Concealed Ducted Unit	HRU-1	Yes	600	320	14,500	11,788	72.7	61	19,960	68	208-230V 1ph	1.6	15	DAIKIN	FXSQ18TAVJU	39.4 x 9.6 x 31.5	77		
FC-08	2	MSP Concealed Ducted Unit	HRU-1	Yes	742	90	19,279	13,885	73.1	61	26,494	68	208-230V 1ph	1.8	15	DAIKIN	FXSQ24TAVJU	39.4 x 9.6 x 31.5	82		
FC-09	6	Concealed Ducted (Medium Static)	HRU-1	Yes	2047	215	56,900	45,116	71.6	61	84,000	68	208-230V 1ph	9	15	DAIKIN	FXMQ72MUVU	54.3 x 18.1 x 43.3	302		

VARIABLE REFRIGERANT VOLUME - BRANCH SELECTOR SCHEDULE

MARK	CONDENSING UNIT SERVED	VOLTAGE-PHASE	(MCA)	(MOP)	MAX CAPACITY (PER PORT)	DIMENSIONS (WxHxD IN)	MANUFACTURER	MODEL	WEIGHT (lbs)	REMARKS
BS-1	HRU-1	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-2	HRU-1	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-3	HRU-1	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-4	HRU- D1	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-5	HRU- D1	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-6	HRU-D2	208-230V 1ph	0.1	15	96	15.3 x 8.1 x 12.8	DAIKIN	BSQ06TAVJ	33.1	
BS-7	HRU-D2	208-230V 1ph	0.1	15	96	15.3 x 8.1 x 12.8	DAIKIN	BSQ06TAVJ	33.1	
BS-8	HRU- D2	208-230V 1ph	0.1	15	96	15.3 x 8.1 x 12.8	DAIKIN	BSQ06TAVJ	33.1	
BS-9	HRU-D2	208-230V 1ph	0.1	15	96	15.3 x 8.1 x 12.8	DAIKIN	BSQ06TAVJ	33.1	
BS-10	HRU-D2	208-230V 1ph	0.4	15	54	14.6 x 11.7 x 18.9	DAIKIN	BSAQ54TAVJ	48.5	
BS-11	NOT USED	--	--	--	--	--	--	--	--	NOT USED
BS-12	NOT USED	--	--	--	--	--	--	--	--	NOT USED
BS-13	NOT USED	--	--	--	--	--	--	--	--	NOT USED
BS-14	NOT USED	--	--	--	--	--	--	--	--	NOT USED
BS-15	NOT USED	--	--	--	--	--	--	--	--	NOT USED

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK	LOCATION	SERVES	SENSIBLE CAPACITY	COOLING CFM HIGH/MED/LOW	HEAT CAPACITY	ELECTRICAL DATA		SEER	EER	MANUFACTURER	MODEL	REMARKS
DSS-1/DHP-1	ELEC ROOM 105/MECH YARD	ELEC ROOM 105	8,800 BTUH	431/322/249	9,400 BTUH	MCA	MOP VOLTS/PHASE	18.0	11.0	DAIKIN	FTX08BXJU-RXB08BXVJU	PROVIDE WITH LOW AMBIENT KIT, THERMOSTAT AND CONDENSATE PUMP.

AIR DEVICE SCHEDULE

MARK	SYSTEM	STYLE	NECK SIZE	FACE SIZE	MAX CFM	APD (IN-WG)	MAX N.C.	MATERIAL	FINISH	MANUFACTURER	MODEL	REMARKS
CS1	SUPPLY AIR	SQUARE LOUVERED DIFFUSER	6"Ø	24"x24"	100	0.1	30	STEEL	WHITE	PRICE	SMD SERIES	Column13
CS2	SUPPLY AIR	SQUARE LOUVERED DIFFUSER	8"Ø	24"x24"	210	0.1	30	STEEL	WHITE	PRICE	SMD SERIES	
CS3	SUPPLY AIR	SQUARE LOUVERED DIFFUSER	10"Ø	24"x24"	400	0.1	30	STEEL	WHITE	PRICE	SMD SERIES	
CS4	SUPPLY AIR	ROUND CONE DIFFUSER	12"Ø	27"Ø	700	0.1	30	STEEL	WHITE	PRICE	RCD SERIES	
SWS1	SUPPLY AIR	LOUVERED SUPPLY	4"x12"	6"x14"	300	0.1	30	STEEL	WHITE	PRICE	S20L	DOUBLE DEFLECTION
SWS2	SUPPLY AIR	LOUVERED SUPPLY	6"x16"	8"x18"	400	0.1	30	STEEL	WHITE	PRICE	S20L	DOUBLE DEFLECTION
DD1	SUPPLY AIR	HIGH CAPACITY DRUM DIFFUSER	6"x18"	8"x20"	325	0.1	30	STEEL	WHITE	PRICE	HCD SERIES	PROVIDE WITH INTEGRAL DAMPER
DD2	SUPPLY AIR	HIGH CAPACITY DRUM DIFFUSER	10"x24"	12"x30"	805	0.1	30	STEEL	WHITE	PRICE	HCD SERIES	PROVIDE WITH INTEGRAL DAMPER
DD3	SUPPLY AIR	HIGH CAPACITY DRUM DIFFUSER	10"x18"	12"x20"	450	0.1	30	STEEL	WHITE	PRICE	HCD SERIES	PROVIDE WITH INTEGRAL DAMPER
CR1	RETURN AIR	EGG CRATE FACE RETURN	6"x6"	24"x24"	100	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CR2	RETURN AIR	EGG CRATE FACE RETURN	10"x10"	24"x24"	480	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CR3	RETURN AIR	EGG CRATE FACE RETURN	12"x12"	24"x24"	610	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CR4	RETURN AIR	EGG CRATE FACE RETURN	14"x14"	24"x24"	900	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CR5	RETURN AIR	EGG CRATE FACE RETURN	22"x22"	24"x24"	2200	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CE1	EXHAUST AIR	EGG CRATE FACE RETURN	6"x6"	12"x12"	100	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
CE2	EXHAUST AIR	EGG CRATE FACE RETURN	8"x8"	24"x24"	290	0.1	30	ALUMINUM	WHITE	PRICE	80 SERIES	
SWE1	EXHAUST AIR	HEAVY DUTY GYM GRILLE	16"x24"	18"x28"	630	0.1	30	STEEL	WHITE	PRICE	91S SERIES	

NOTES:  
1 ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW, UNLESS OTHERWISE INDICATED.  
2 IF AIR DEVICE NECK SIZE DIFFERS FROM BRANCH DUCT SIZE, PROVIDE TRANSITION AS NEEDED.  
3 PROVIDE FRAME STYLE (INSTALLATION TYPE AS REQUIRED) FOR CEILING TYPE.  
4 PROVIDE RAPID MOUNT FRAMS FOR AIR DEVICES MOUNTED IN CEILINGS OTHER THAN LAY-IN CEILINGS.

EXHAUST FAN SCHEDULE

MARK	SERVES	TYPE	FAN DATA			MOTOR DATE			SONNES	TOTAL UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
			CFM	ESP	RPM	HP	VOLTS	PHASE					
EF-1	OFFICE AREA RESTROOM AND JANITOR	CENTRIFUGAL INLINE	725	0.5	1725	0.25	115	1	12.7	61	GREENHECK	SG-99-VG	1.2,3
EF-2	STORAGE 115	INLINE CABINET	100	0.25	971	52 W	115	1	0.3	18	GREENHECK	CSP-A125	1.2,4
EF-3	FAB SHOP 102 WELDING HOOD	CENTRIFUGAL INLINE	3000	0.25	1160	1	115	1	8.4	120	GREENHECK	SG-160-VG	1.2,5
EF-4	SHOP BAYS 100	CENTRIFUGAL INLINE	5025	0.5	1666	2	208	1	8.8	151	GREENHECK	SG-16-VG	1.2,6
EF-5	NOT USED	--	--	--	--	--	--	--	--	--	--	--	NOT USED

NOTES:  
1 PROVIDE WITH DISCONNECT  
2 PROVIDE WITH HANGING SPRING ISOLATOR  
3 PROVIDE WITH 24/7 PROGRAMMABLE TIMER  
4 PROVIDE WITH LINE-VOLTAGE THERMOSTAT  
5 PROVIDE WITH LINE-VOLTAGE 1-HOUR TIMER SWITCH (ADJ.)  
6 FAN TO INTERLOCK WITH DOAS-2 AND 3 CONTROLS SYSTEM

LOUVER SCHEDULE

MARK	EQUIPMENT SERVED	USE	MAX AIRFLOW (CFM)	SIZE		FREE AREA (SF)	APD (IN-WG)	MANUFACTURER	MODEL	REMARKS
				W"	H"					
L-1	EF-1 & 2	EXHAUST	1,250	54	16	2.14	0.046	GREENHECK	ESD-635	1,2
L-2	DOAS-1&2	INTAKE AIR	5,610	96	32	9.7	0.192	GREENHECK	ECD-601	1,2,3
L-3	EF-4	EXHAUST AIR	5,025	54	44	5.6	0.10	GREENHECK	EACC-601	1,2,3,4
L-4	EF-3	INTAKE AIR	3,000	30	40	3.54	0.101	GREENHECK	ECD-601	1,2,3
L-5	EF-3	EXHAUST AIR	3,000	24	44	3.26	0.115	GREENHECK	ECD-601	1,2,3
L-6	EF-4	INTAKE AIR	2,010	36	36	2.51	0.06	GREENHECK	EACC-601	1,2,3,4
L-7	EF-4	INTAKE AIR	2,010	36	36	2.51	0.06	GREENHECK	EACC-601	1,2,3,4

NOTES:  
1 INTERNAL BIRD SCREEN  
2 FINISH PER ARCHITECT  
3 120V MOTOR ACTUATED DAMPER  
4 COMBINATION LOUVER/DAMPER

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVES	TYPE	KW	MOTOR HP/CFM	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
					AMP	VOLTS	PHASE			
EH-1	FIRE RISER 106	SEMI RECESS WALL MOUNT	1.5	1/125 HP	12.5	120	1	MARKEL	E3323TD-RP	1&2
EH-2	WASH BAY 125	WASH/DOWN FAN FORCED UNIT HEATER	5.0	400 CFM	24.1	208	1	MARKEL	F1F5505T-304	1&2
EH-3	WASH BAY 125	WASH/DOWN FAN FORCED UNIT HEATER	5.0	400 CFM	24.1	208	1	MARKEL	F1F5505T-304	1&2
EH-4	WASH BAY 125	WASH/DOWN FAN FORCED UNIT HEATER	5.0	400 CFM	24.1	208	1	MARKEL	F1F5505T-304	1&2
NOTES:										
1. DISCONNECT SWITCH										
2. INTEGRAL THERMOSTAT										





**CRAIGHEAD ELECTRIC**  
**MAINTENANCE SHOP ADDITION**  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

# SANITARY SEWER PLAN

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1

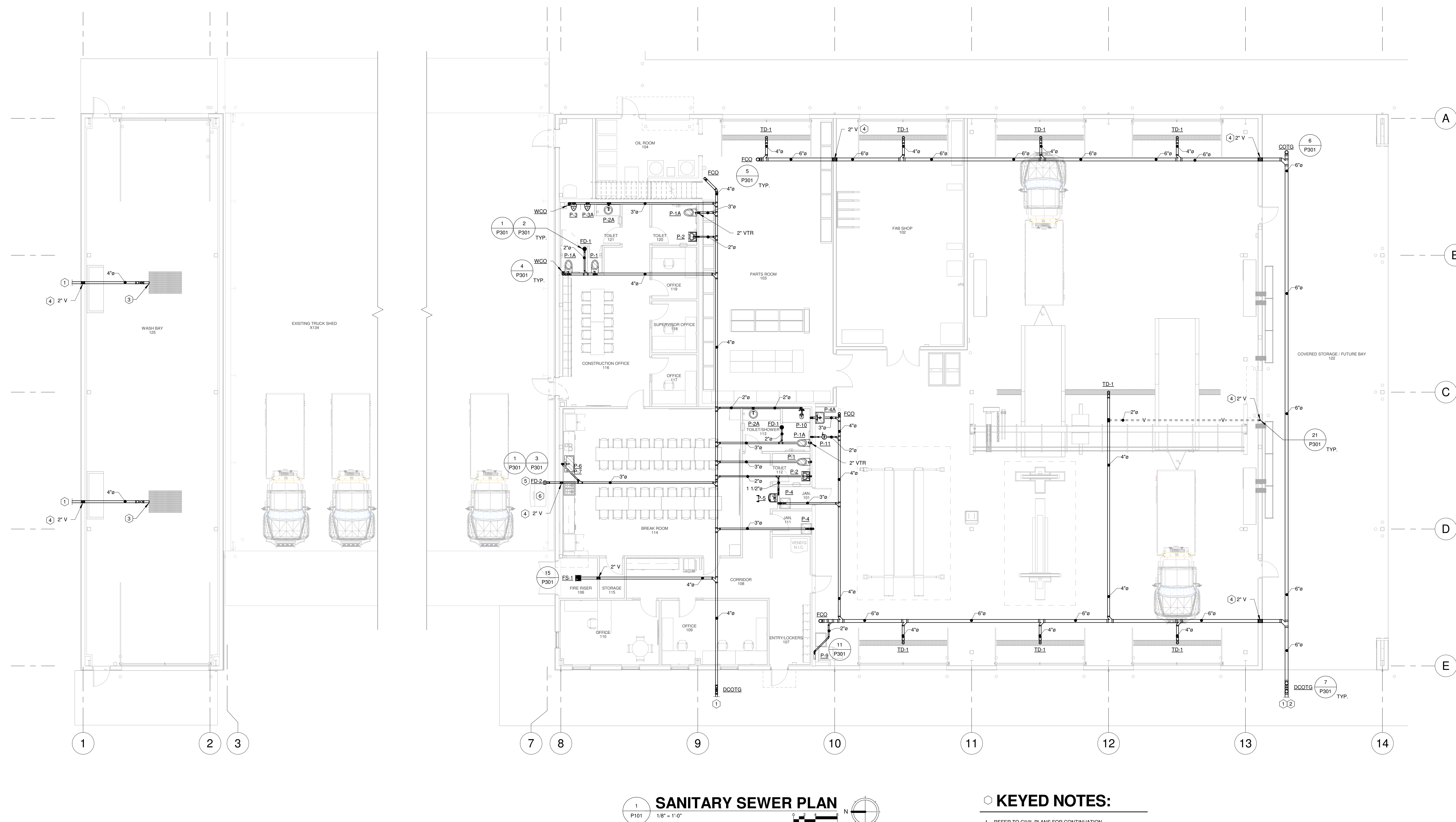
24-096

**JOB. NO.**

02.14.2025

ISSUE SET

P101



### KEYED NOTES:

- 1 REFER TO CIVIL PLANS FOR CONTINUATION.
- 2 EXTEND SANITARY DRAIN LINE TO OIL/WATER SEPARATOR SEPARATOR BY CIVIL.
- 3 4" DRAIN LINE CONNECTS TO DRAINAGE PIT 1'-0" BELOW FINISHED SLAB.
- 4 ROUTE 2" VENT UP THROUGH ROOF AND OFFSET AS REQUIRED TO MAINTAIN A MINIMUM OF 3'-0" FROM ROOF EDGE.
- 5 FLOOR DRAIN TO SERVE ICE MACHINE.
- 6 COORDINATE ICE MAKER EXHAUST LOCATION WITH EXHAUST CAP FROM VENT HOOD. TO AVOID CONFLICTS.

NOTE : FLOOR PLAN UPDATED  
TO REFLECT ARCHITECTURAL  
CHANGES. SHEET ISSUED FOR  
CONSISTENCY.





NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Post Bid ADD #1

24-096

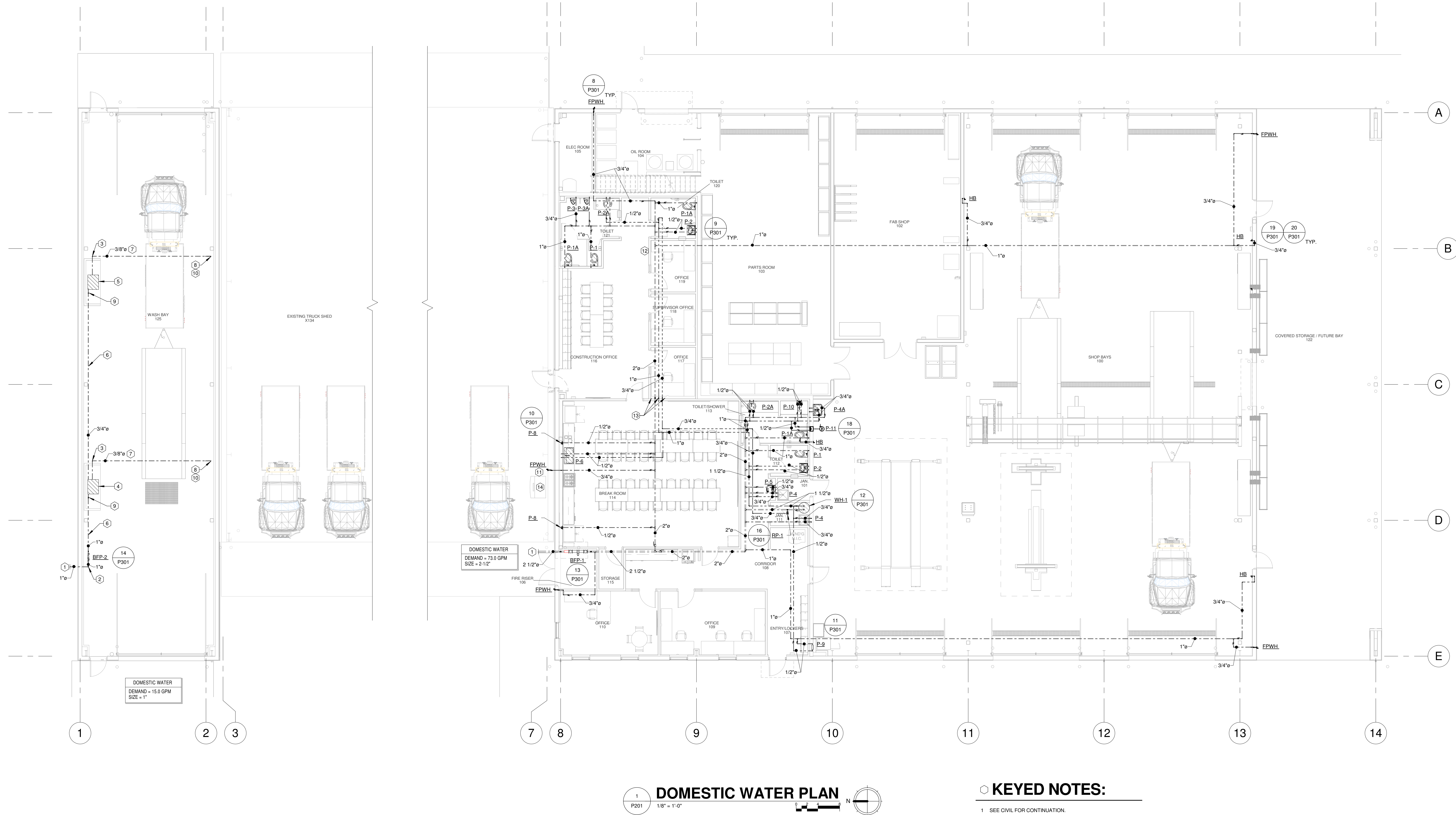
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02.14.2025

DATE

ISSUE SET

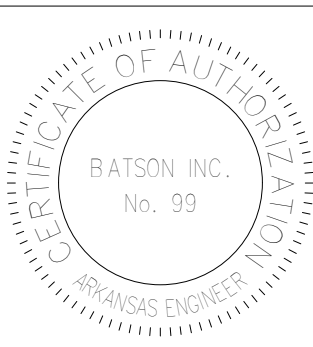
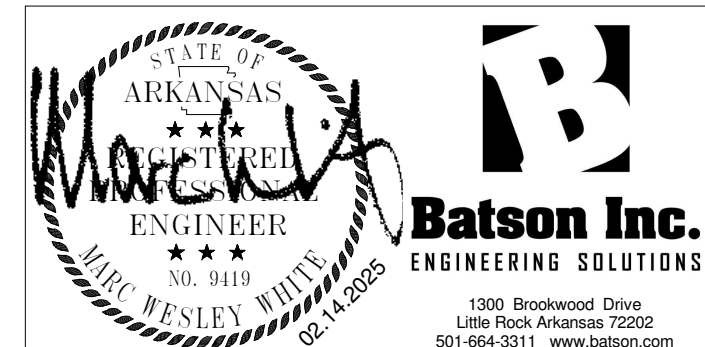
P201



## KEYED NOTES:

- SEE CIVIL FOR CONTINUATION.
- WATER LINE RISES UP FROM BELOW SLAB. SLEEVE AND SEAL SLAB PENETRATION.
- DISCHARGE PRESSURIZED WATER LINE FROM WASHER DROPS BELOW GRADE TO ROUTE BELOW SLAB TO SOUTH SIDE OF WASH BAY.
- PSC MODEL E542K424A PRESSURE WASHER.
- OWNER FURNISHED, CONTRACTOR INSTALLED PRESSURE WASHER.
- DOMESTIC WATER LINE ROUTED TIGHT TO WALL 8 FEET A.F.F. SECURE TO WALL USING UNI-STRUT SUPPORTS EVERY 4 FEET.
- PRESSURIZED WATER LINE TO BE 3/8", SCHEDULE 80 STAINLESS STEEL PIPING.
- PRESSURIZED WATER LINE TO RISE FROM BELOW SLAB TO 3 FEET A.F.F. SUPPORT PIPING PER DETAIL 17/P301. SLEEVE AND SEAL SLAB PENETRATION.
- 3/4" DOMESTIC WATER LINE TO DROP TO PRESSURE WASHER. CONNECT TO WASHER PER MANUFACTURER'S REQUIREMENTS.
- TERMINATE PRESSURIZED WATER LINE PER MANUFACTURER'S REQUIREMENTS FOR CONNECTION TO HIGH-PRESSURE WASH HOSE.
- HEAT TRACE DOMESTIC WATER CONNECTION FROM ICE MAKER TO HOSE BHB FOR FREEZE PROTECTION. COORDINATE WITH ELECTRICAL PRIOR TO INSTALLATION.
- CLOSELY COORDINATE DOMESTIC WATER ROUTING BELOW MEZZANINE WITH OTHER TRADE TO AVOID CONFLICTS PRIOR TO INSTALLATION.
- DOMESTIC WATER LINES DROP TO BELOW MEZZANINE LEVEL FOR CONTINUATION TO FIXTURES.
- COORDINATE ICE MAKER EXACT LOCATION WITH EXHAUST CAP FROM VENT HOOD. TO AVOID CONFLICTS.

NOTE: FLOOR PLAN UPDATED TO REFLECT ARCHITECTURAL CHANGES. SHEET ISSUED FOR CONSISTENCY.





WATER HEATERS

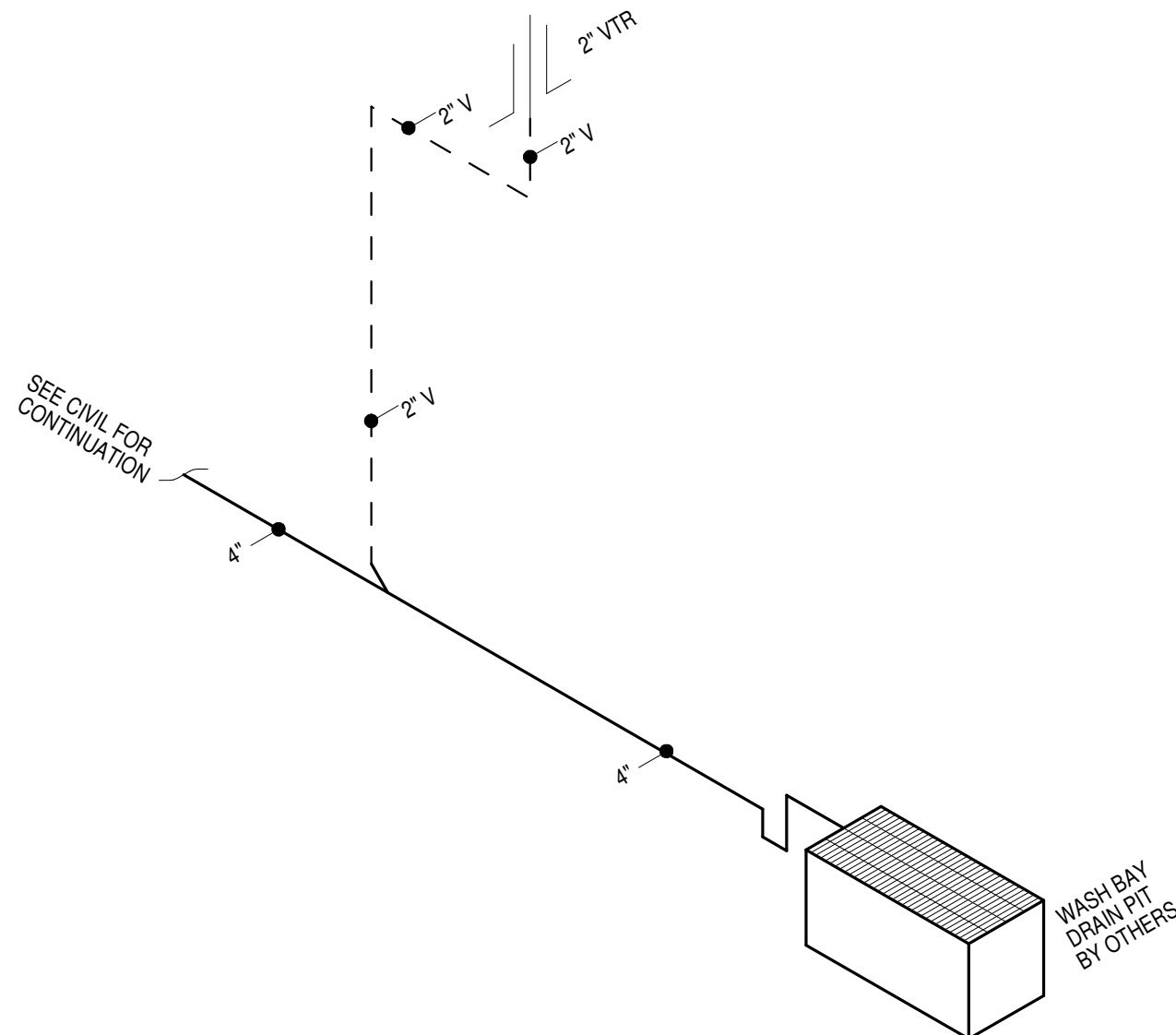
MARK	LOCATION	GALLON CAPACITY	SERVES	ELECTRIC DATA		MANUFACTURER & MODEL NO. OR EQUAL	CONNECTIONS		REMARKS
				VOLTS/ PHASE	KW		CW	HW	
WH-1	JAN 111	80	SHOP AND OFFICE AREA	208/3	8.0	A.O. SMITH DEN-80	1-1/2"	1-1/2"	DUAL ELEMENT, SIMULTANEOUS OPERATION. PROVIDE HOLDRITE WATER HEATER FLOOR STAND 40-S-24-A AND HOLDRITE WATER HEATER DRAIN PAN QP-24. PROVIDE WITH T&P VALVE AND WATTS EXPANSION TANK PER MANUFACTURERS SPECIFICATION AND HOLDRITE EXPANSION TANK MOUNTING BRACKET. HEATER TEMPERATURE SET POINT TO BE 120°F. COORDINATE WITH ELECTRICAL FOR DISCONNECT LOCATION.
sp-1	JAN 111	---	WATER HEATER WH-1	120/1	25 WATTS	GRUNDFOSS UP 15-10 BUC7-LC	---	3/4"	4 GPM WHEN OPERATING AT TOTAL DEVELOPED HEAD OF 3.2 FT OF WATER COLUMN. 3/4" SWEAT CONNECTION. 2 POLE, SINGLE PHASE. 1/25 HP. PROVIDE WITH PRE-TERMINATED LINE CORD.

EQUIPMENT NOTES:

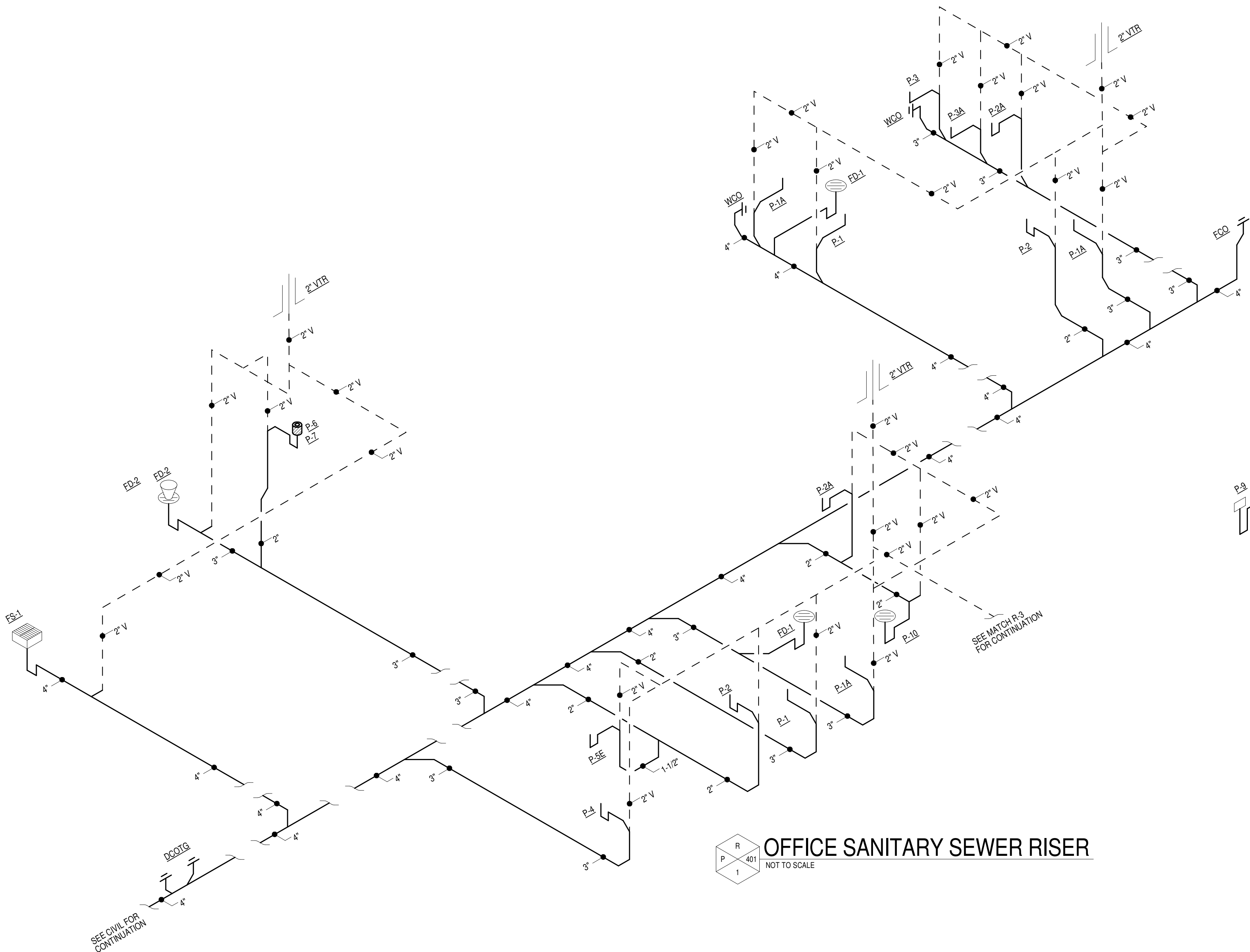
1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL EQUIPMENT REQUIREMENTS.
2. MANUFACTURERS INDICATED ARE TO ESTABLISH MINIMUM CAPACITIES, EFFICIENCIES, QUALITY, ACCESSORIES AND STANDARDS. UNLESS OTHERWISE INDICATED ON THE SCHEDULES OR IN THE SPECIFICATIONS, EQUAL EQUIPMENT BY OTHER MANUFACTURERS MAY BE USED.
3. ANY CHANGES TO THE ELECTRICAL, STRUCTURAL, ARCHITECTURAL, OR OTHER MECHANICAL SYSTEMS WHICH RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE COORDINATED FULLY PRIOR TO BID. ALL COSTS RESULTING FROM CHANGES REQUIRED BY THE SUBSTITUTION SHALL BE INCLUDED IN THE BIDS.

PLUMBING FIXTURE SCHEDULE

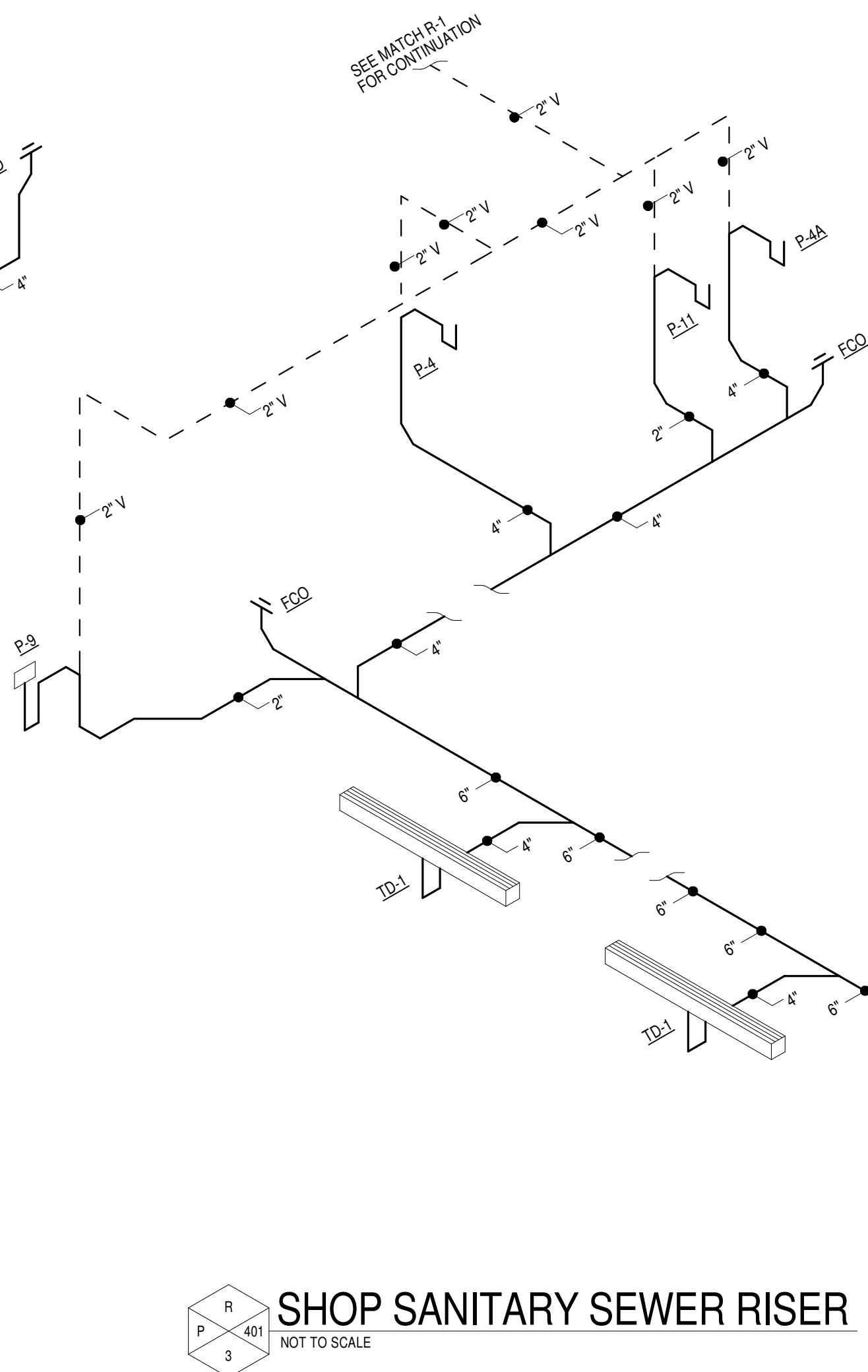
MARK	DESCRIPTION	WASTE	VENT	C.W.	H.W.	MOUNTING	REMARKS
P-1	WATER CLOSET	4"	2"	1"	---	FLOOR	AMERICAN STANDARD MADERA 3451.001, VITREOUS CHINA, WHITE. SLOAN ROYAL 111-1.28 FLUSH VALVE. CHURCH 9500NSSC, ELONGATED, OPEN FRONT SEAT, BOLT CAPS.
P-1A	WATER CLOSET - ADA	4"	2"	1"	---	FLOOR	AMERICAN STANDARD MADERA 3043.001, VITREOUS CHINA, WHITE. SLOAN ROYAL 111-1.28 FLUSH VALVE. CHURCH 9500NSSC, ELONGATED, OPEN FRONT SEAT, BOLT CAPS. INSTALL PER ADA REQUIREMENTS.
P-2A	LAVATORY - ADA	2"	2"	1/2"	1/2"	COUNTERTOP	AMERICAN STANDARD AQUALYN 0476.028 VITREOUS CHIN, WHITE. AMERICAN STANDARD FAUCET MONTERREY, 4" ON CENTER, CENTERSET GOOSENECK WITH LIMITED SWIVEL, WRIST BLADE HANDLES. 1.5 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE. PROVIDE MCGUIRE 1149 OFFSET GRIDSTRAINER, 8872 P-TRAP WITH ESCUTCHEON. MCGUIRE LP2165 SUPPLY KIT WITH ESCUTCHEONS. INSTALL PER ADA REQUIREMENTS.
P-2	LAVATORY - ADA	2"	2"	1/2"	1/2"	WALL	AMERICAN STANDARD LUCERNE 0385.012 VITREOUS CHIN, WHITE. AMERICAN STANDARD FAUCET MONTERREY, 4" ON CENTER, CENTERSET GOOSENECK WITH LIMITED SWIVEL, WRIST BLADE HANDLES. 1.5 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE. PROVIDE MCGUIRE 1149 OFFSET GRIDSTRAINER, 8872 P-TRAP WITH ESCUTCHEON. MCGUIRE LP2165 SUPPLY KIT WITH ESCUTCHEONS. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH WALL CARRIER.
P-3	URINAL	2"	2"	3/4"	---	WALL	AMERICAN STANDARD LYNBROOK 6601.012, VITREOUS CHINA, WHITE. SLOAN ROYAL 186-1.0 FLUSH VALVE. WADE 400-AM11 CARRIER.
P-3A	URINAL - ADA	2"	2"	3/4"	---	WALL	AMERICAN STANDARD LYNBROOK 6601.012, VITREOUS CHINA, WHITE. SLOAN ROYAL 186-1.0 FLUSH VALVE. WADE 400-AM11 CARRIER. INSTALL PER ADA REQUIREMENTS.
P-4	JANITOR SINK	3"	2"	3/4"	3/4"	FLOOR	STERN-WILLIAMS SB-901, WITH SATINLESS STEEL CAP, TILTING FLANGE, CAST BRASS DRAIN BODY, STAINLESS STEEL STRAINER AND LINT BASKET, STAINLESS STEEL SPLASH PANELS, T-35 HOSE AND WALL HOOK, T-40 S.S. MOP HANGER WITH 3 WALL GRIPS. T&S FAUCET #B-6865-BSTP WITH BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, AND 3/4" GARDEN HOSE OUTLET.
P-4A	JANITOR SINK	3"	2"	3/4"	3/4"	FLOOR	ELKAY RNSF8118 #16 GAUGE, TYPE 304, STAINLESS STEEL SCULLERY SINK. PROVIDE WITH FAUCET MODEL LK340AT8L2H AND DRAIN MODEL LK18B. PROVIDE WITH TWO MCGUIRE SUPPLY STOPS.
P-5	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	---	WALL	OASIS POF6S8F, BARRIER-FREE VERSACOOLER II WITH VERSAFILTER AND VERSAFILLER. 8.0 GPM OF 50°F WATER AT 90°F AMBIENT AND 80°F INLET WATER. 1/4 HP, 115V, 60HZ, 4.4AMPS. PROVIDE WITH BOTTLE FILLER VERSAFILLER KIT. PROVIDE WITH CARRIER. PROVIDE MCGUIRE #BV 2165 STOP AND #BB72 TRAP.
P-6	SINGLE COMPARTMENT SINK	2"	2"	1/2"	1/2"	COUNTERTOP	ELKAY LR-2219 OVERALL 22"L X 19-1/2"W (16" X 16" X 7-1/2" BOWL), 18 GAUGE STAINLESS STEEL, CENTER OUTLET, WITH CHROME P-TRAP, DELTA 27C4834 FAUCET WITH WRIST BLADE HANDLES. PROVIDE MCGUIRE 8904 P-TRAP WITH ESCUTCHEON AND MCGUIRE 177 SUPPLY KIT WITH ESCUTCHEONS. PROVIDE WITH REMOVABLE STRAINER BASKET.
P-7	DISPOSAL	2"	---	---	---	BELOW SINK	IN-SINK-ERATOR, BADGER 500, CONTINUOUS FEED, 1/2 HP, 120V/110V, STAINLESS STEEL GRINDING ELEMENTS WITH TWO STAINLESS STEEL 360° SWIVEL LUGS, WITH DISHWASHER INLET.
P-8	WATER BOX	---	---	1/2"	---	WALL	WATER TITE #AB1200, 1/2" VALVE CONNECTION, 1/4" TURN BALL INSTALLED, CONTOUR DESIGN FOR EASY VALVE ACCESS. THIS BOX SERVICES ONLY ONE ICE MACHINE.
P-9	WASHER BOX	2"	2"	1/2"	1/2"	WALL	WATER TITE #W4700, 2" DRAIN LINE, 1/2" VALVE CONNECTION, 1/4" TURN BALL INSTALLED, CONTOUR DESIGN FOR EASY VALVE ACCESS. PROVIDE WITH FACTORY HAMMER ARRESTERS.
P-10	SHOWER - ADA	2"	2"	1/2"	1/2"	WALL/FLOOR	HAMILTON 0 6233 1855-WHT ACRYL ALCOVE ONE-PIECE ROLL-IN SHOWER, WITH FLOUP UP SEAT, 2" HORIZONTAL AND ONE VERTICAL GRAB BARS, VALVE PACKAGE INCLUDES HAND-HELD SHOWER SET, 60" FLEX HOSE, VACUUM BREAKER, 30" SLIDE BAR, WALL OUTLET FITTINGS, CURTAIN AND HOOKS, CENTER DRAIN, ZURN FD225-CJ SHOWER DRAIN, INSTALL FOR COMPLIANCE WITH ADA.
P-11	EYE WASH STATION	1-1/2"	1-1/2"	1/2"	1/2"	WALL	GUARDIAN GB1724 BARRIER-FREE WIDE-AREA EYE-FACE WASH, WALL MOUNTED. PROVIDE WITH GUARDIAN G602-1R6 THERMOSTATIC MIXING VALVE WITH STEEL CABINET. INSTALL PER MANUFACTURER REQUIREMENTS.
FWH	FREEZE PROOF WALL HYDRANT	---	---	3/4"	---	WALL	WOODFORD B67, AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH HOSE CONNECTION BACKFLOW PROTECTION. PROVIDE WITH STANDARD CHROME FINISH WITH KEY OPERATED BOX.
HB	HOSE BIBB	---	---	3/4"	---	WALL	WOODFORD B84, ANTI-SIPHON WALL FAUCET, PROVIDE WITH STANDARD CHROME FINISH WITH KEY OPERATED BOX. FOR INSTALLATION IN MODERATE CLIMATE.
FD-1	FLOOR DRAIN	2"	---	---	---	FLOOR	ZURN Z4156 ROUND FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND POLISHED NICKLE BRONZE STRAINER. PROVIDE INLINE TRAP PROTECTION, REFER TO DETAIL 1/P301. INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR.
FD-2	FLOOR DRAIN	3"	---	---	---	FLOOR	ZURN Z4156 ROUND FLOOR DRAIN WITH FUNNEL, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND POLISHED NICKLE BRONZE STRAINER. PROVIDE INLINE TRAP PROTECTION, REFER TO DETAIL 1/P301. INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR.
FS-1	FLOOR SINK	4"	---	---	---	FLOOR	ZURN Z1849-3 FLOOR SINK, 12"x12"x4" 14 GAUGE, TYPE 304 STAINLESS STEEL WITH BOTTOM OUTLET WITH LIGHT DUTY PERFORATED GRATE AND SEDIMENT BASKET. PROVIDE WITH 3/4" GRATE. PROVIDE INLINE TRAP PROTECTION, REFER TO DETAIL 1/P301. INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR.
TD-1	TRENCH DRAIN	4"	---	---	---	FLOOR	ZURN Z886-HD TRENCH DRAIN, EACH TRENCH DRAIN TO START WITH SECTION 8604 AT SHALLOW END WITH BOTTOM OUTLET DRAIN DRAIN AT THE MID POINT. PROVIDE INLINE TRAP PROTECTION, REFER TO DETAIL 1/P301. INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR.
BFP-1	BACKFLOW PREVENTER	---	---	2 1/2"	---	SEE PLANS	WATTS LF989 1" BACKFLOW PREVENTER. PROVIDE WITH AIR GAP AND STRAINER. ROUTE DRAIN LINE TO FLOOR SINK.
BFP-2	BACKFLOW PREVENTER	---	---	1"	---	SEE PLANS	WATTS LF989 1" BACKFLOW PREVENTER. PROVIDE WITH AIR GAP AND STRAINER. ROUTE DRAIN LINE TO DRAIN PIT.
FDG	FLOOR CLEANOUT	SEE PLANS	---	---	---	FLOOR	ZURN OR EQUAL.
COTG	CLEANOUT TO GRADE	SEE PLANS	---	---	---	GRADE	ZURN OR EQUAL.
DOOTG	DOUBLE CLEANOUT TO GRADE	SEE PLANS	---	---	---	GRADE	ZURN OR EQUAL.



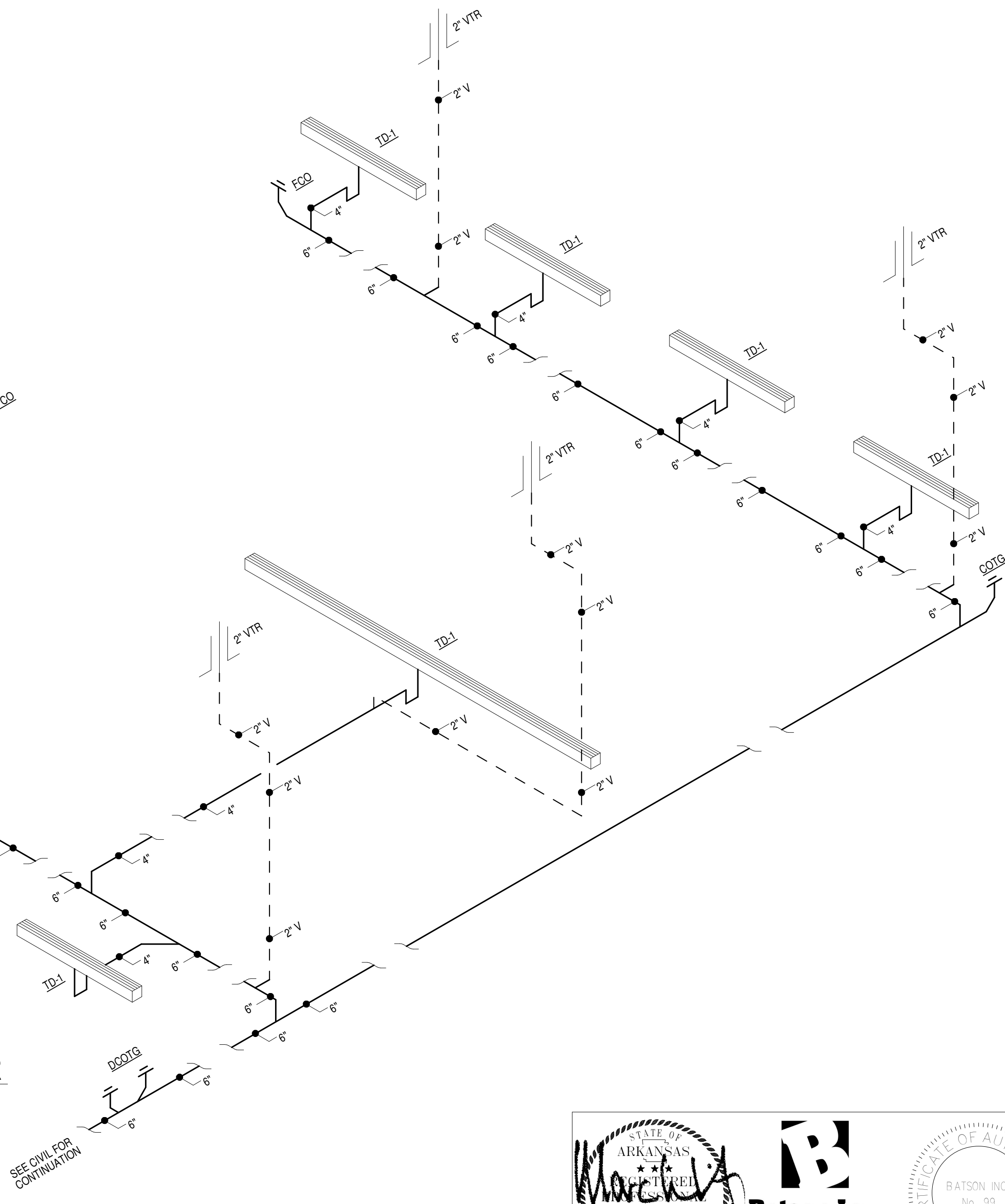
WASH BAY DRAIN PIT RISER  
NOT TO SCALE  
TYPICAL OF 2



OFFICE SANITARY SEWER RISER  
NOT TO SCALE



SHOP SANITARY SEWER RISER  
NOT TO SCALE



PROJECT TITLE

CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

CONTENTS

PLUMBING SCHEDULES AND  
RISERS

REVISIONS

NO.	DATE	DESCRIPTION
1	04/03/25	Post Bid ADD #1

24-096

JOB NO.

02.14.2025

DATE

ISSUE SET

SHEET

P401



ELECTRICAL GENERAL NOTES

1. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
2. REFER TO SPECIFICATIONS. SPECIFICATIONS AND DRAWINGS ARE COMPLIMENTARY EXCEPT THAT, IN CASE OF CONFLICT, SPECIFICATIONS WILL GOVERN.
3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (MECHANICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF SUBSTITUTE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
4. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION AND OBTAIN REQUIRED CERTIFICATES OF INSPECTION.
6. CONTRACTOR SHALL INCLUDE IN THE WORK ALL LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, ETC. IN ORDER TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES, AND REGULATIONS OF LOCAL, STATE AND FEDERAL GOVERNMENTS, WHETHER OR NOT SHOWN ON THE DRAWINGS.
7. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE COMPLETE TIE-IN WITH UTILITY LINES AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY UTILITY COMPANY PERTAINING TO CONSTRUCTION AND TIE-IN. DEPOSITS REQUIRED FOR PERMANENT SERVICE SHALL BE PAID BY THE OWNER.
8. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY COMPONENT, DEVICE OR OPTION. THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO FIT THE AVAILABLE SPACE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK WITH THAT OF OTHER TRADES. EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
10. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
11. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
12. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
13. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. SEE ARCHITECTURAL SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
14. CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, POWER REQUIREMENTS, ROUTING, CONDUCTOR SIZE, AND CONDUCTOR COUNT PRIOR TO ROUGH-IN.
15. COORDINATE FINAL HEIGHTS AND LOCATIONS OF ALL DEVICES WITH MILLWORK, FURNITURE OR OTHER EQUIPMENT.
16. ALL DEVICES LOCATED IN SAME GENERAL LOCATION ON THE SAME WALL SHALL BE GROUPED AND ALIGNED HORIZONTALLY OR VERTICALLY, AS NECESSARY.
17. GROUPED SWITCHES SHALL BE GANG MOUNTED.
18. COLOR AND TYPE OF DEVICE COVER PLATES TO BE SELECTED BY ARCHITECT.
19. COORDINATE FRAMES AND ACCESSORIES FOR FIXTURE MOUNTING WITH ARCHITECTURAL FINISH SCHEDULE.
20. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
21. SEAL ALL ROOF AND WALL PENETRATIONS. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BID FOR ALL REQUIRED FLASHINGS AT ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS 8 IN. ABOVE ROOF.
22. SPECIAL CARE SHALL BE TAKEN ON THE ROOF TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
23. SEAL ALL ELECTRICAL PENETRATIONS THROUGH RATED ASSEMBLIES, FIRE WALLS AND SMOKE WALLS. FIREPROOFING SEALANT SHALL BE UL APPROVED AND SHALL BE INSTALLED IN A MANNER THAT MAINTAINS THE RATING OF THE ASSEMBLY BEING PENETRATED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	2X4 LAY-IN OR SURFACE-MOUNTED FIXTURE		QUADRAPLEX RECEPTACLE		FIRE ALARM HORN / STROBE DEVICE
	2X4 LAY-IN OR SURFACE-MOUNTED FIXTURE: SHADING INDICATES EMERGENCY FIXTURE		SPECIALTY RECEPTACLE		FIRE ALARM SPEAKER / STROBE DEVICE
	2X2 LAY-IN OR SURFACE-MOUNTED FIXTURE		FLOOR RECEPTACLE		FIRE ALARM STROBE DEVICE
	2X2 LAY-IN OR SURFACE-MOUNTED FIXTURE: SHADING INDICATES EMERGENCY FIXTURE		FLOOR BOX		CEILING-MOUNTED FIRE ALARM STROBE DEVICE
	SURFACE, STRIP OR PENDANT-MOUNTED FIXTURE		HOMERUN: HOT, NEUTRAL, GROUND		CEILING-MOUNTED FIRE ALARM HORN / STROBE DEVICE
	WALL-MOUNTED SURFACE OR STRIP FIXTURE		DISCONNECT SWITCH		CEILING-MOUNTED FIRE ALARM SPEAKER / STROBE DEVICE
	SURFACE-MOUNTED OR RECESSED CAN LIGHT FIXTURE		FUSED DISCONNECT SWITCH		ZAM FIRE ALARM DEVICE: CONTROL, MONITOR, IAM
	WALL-MOUNTED SURFACE FIXTURE		COMBINATION STARTER / FUSED SWITCH		MAGNETIC LOCK
	CEILING-MOUNTED EXIT LIGHT: SHADING INDICATES FACES CHEVRONS AS SHOWN ON PLANS		MOTOR STARTER		FIRE ALARM TAMPER / FLOW SWITCHES
	WALL-MOUNTED EXIT LIGHT: SHADING INDICATES FACES CHEVRONS AS SHOWN ON PLANS		JUNCTION BOX (FLUSH MOUNTED)		SECURITY CAMERA
	SINGLE-POLE SWITCH		PUSH-BUTTON		CARD READER (BOX ONLY)
	THREE-WAY SWITCH		TELEPHONE OUTLET		KEYPAD (BOX ONLY)
	FOUR-WAY SWITCH		WALL-MOUNTED TELEPHONE OUTLET		PAGING SPEAKER
	DIMMER SWITCH		DATA OUTLET		PAGING SPEAKER VOLUME CONTROL
	WALL-MOUNTED OCCUPANCY SENSOR SWITCH		COMBINATION TELEPHONE / DATA OUTLET		INDICATES ABOVE COUNTER
	WALL-MOUNTED OCCUPANCY SENSOR DIMMING SWITCH		HDMI OUTLET		INDICATES GROUND FAULT PROTECTION
	LOW VOLTAGE SWITCH		WIRELESS ACCESS POINT		INDICATES WEATHER RESISTANT
	MANUAL MOTOR STARTER SWITCH		SMOKE DETECTOR		INDICATES TAMPER RESISTANT
	CEILING-MOUNTED LOW VOLTAGE OCCUPANCY SENSOR		DUCT SMOKE DETECTOR		INDICATES ABOVE FINISH FLOOR
	CEILING-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR		HEAT DETECTOR		INDICATES ABOVE FINISH GRADE
	OCCUPANCY SENSOR POWER PACK		CARBON MONOXIDE DETECTOR		INDICATES NON SWITCHED
	SIMPLEX RECEPTACLE		DOOR HOLDER		INDICATES EXISTING RELOCATED
	DUPLEX RECEPTACLE		FIRE ALARM PULL STATION		INDICATES EXISTING TO REMAIN

\*\*\* NOTE: NOT ALL SYMBOLS SHOWN IN LEGEND ARE APPLICABLE TO THIS PROJECT. \*\*\*

ELECTRICAL DRAWING INDEX

E001	ELECTRICAL NOTES, LEGEND, & INDEX
E201	ELECTRICAL LIGHTING PLAN
E301	ELECTRICAL POWER & SYSTEMS PLAN
E302	ELECTRICAL MEZZANINE AND ENLARGED PLANS
E401	HVAC EQUIPMENT POWER PLAN
E501	ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E701	ELECTRICAL DETAILS

LIGHTING FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQ'D LAMPS		MOUNTING	DESCRIPTION
				NUM.	TYPE		
A	LA LIGHTING	HBN200-48-4-FRA-DRDM-UNV-3-840-YTCS10	120V	-	LED	PENDANT	PENDANT MOUNTED LED HIGH BAY FIXTURE
B	NORA LIGHTING	NPDBLSW-E22/334-W	120V	-	LED	RECESSED	2X2 RECESSED LED FLAT PANEL, SET TO 30W LUMENS; VERIFY CCT SETTING W/ ARCHITECT
BE	DELETED FROM PROJECT						
B1	NORA LIGHTING	NPDBLSW-E22/334-W-NPDBL-22RFK/W	120V	-	LED	RECESSED	2X2 RECESSED LED FLAT PANEL W/ DRYWALL RECESSED KIT; SET TO 30W LUMENS; VERIFY CCT SETTING W/ ARCHITECT
B2	DELETED FROM PROJECT						
C	LA LIGHTING	CIT100-4-4L-DRFA-WL-SSL-DRDM-UNV-1-840	120V	-	LED	SURFACE/WALL	4FT VAPOR-TIGHT STRIP FIXTURE 6000 LUMEN
CE	LA LIGHTING	CIT100-4-4L-DRFA-WL-SSL-BPLSL1.5-DRDM-UNV-1-840	120V	-	LED	SURFACE/WALL	4FT VAPOR-TIGHT STRIP FIXTURE W/ EMERGENCY BATTERY BACKUP
C1	LA LIGHTING	CIT100-6-4L-DRFA-WL-SSL-DRDM-UNV-1-840	120V	-	LED	SURFACE/WALL	4FT VAPOR-TIGHT STRIP FIXTURE; 6000 LUMEN
D	KURTZON LIGHTING	WL-SEG-1540-3HI-840-FP-UNV-DIM1-MOUNTING	120V	-	LED	PENDANT	PENDANT MOUNTED LED WET LOCATION VAPOR-TIGHT FIXTURE
F	ALPHABET LIGHTING	NU2RD-SW-10LM-40K-80-55D-DL-FINISH-RET-UNV-DIM10	120V	-	LED	RECESSED	2" ROUND RECESSED LED ACCENT LIGHT
G	LA LIGHTING	STW100-6-4L-FRWA-DRDM-UNV-1-840-VHOOK	120V	-	LED	PENDANT	4FT LENSED LED STRIP FIXTURE
GE	LA LIGHTING	STW100-6-4L-FRWA-BPLSL1.5-DRDM-UNV-1-840-VHOOK	120V	-	LED	PENDANT	4FT LENSED LED STRIP FIXTURE W/ EMERGENCY BATTERY BACKUP
G1	LA LIGHTING	STW100-4-5-3L-FRWA-DRDM-UNV-1-840-VHOOK	120V	-	LED	PENDANT	3FT LENSED LED STRIP FIXTURE
H	ALPHABET LIGHTING	NU4RD-SW-20LM-40-80-65D-SBL-FINISH-FINISH-RET-UNV-DIM10	120V	-	LED	RECESSED	4" ROUND RECESSED LED CAN LIGHT
HE	ALPHABET LIGHTING	NU4RD-SW-20LM-40-80-65D-SBL-FINISH-FINISH-RET-UNV-DIM10-EMTIPS	120V	-	LED	RECESSED	4" ROUND RECESSED LED CAN LIGHT W/ EMERGENCY BATTERY BACKUP W/ INTEGRAL TEST SWITCH
J	AMERICAN LINEAR LIGHTING	2W-4-VLD-40-UNV-FINISH	120V	-	LED	WALL	4FT DIRECT WALL-MOUNTED LED LIGHT
J1	AMERICAN LINEAR LIGHTING	2W-5-VLD-40-UNV-FINISH	120V	-	LED	WALL	5FT DIRECT WALL-MOUNTED LED LIGHT
J2	AMERICAN LINEAR LIGHTING	2W-6-VLD-40-UNV-FINISH	120V	-	LED	WALL	6FT DIRECT WALL-MOUNTED LED LIGHT
J3	AMERICAN LINEAR LIGHTING	2W-7-VLD-40-UNV-FINISH	120V	-	LED	WALL	7FT DIRECT WALL-MOUNTED LED LIGHT
Q	QTL LIGHTING	Q-LINK-SST-DRY-40-DF-FINISH-24	120V	-	LED	UNDERCABINET	12" LINE VOLTAGE LED UNDERCABINET FIXTURE
V1	QTL LIGHTING	Q-LINK-SST-DRY-40-DF-FINISH-24	120V	-	LED	UNDERCABINET	24" LINE VOLTAGE LED UNDERCABINET FIXTURE
W	EVENLITE	TEBL6-FINISH-SD	120V	-	LED	WALL	LED HIGH OUTPUT EMERGENCY EGRESS LIGHTING UNIT
WT	EVENLITE	TEBL6-FINISH-SD-VNWP	120V	-	LED	WALL	LED HIGH OUTPUT EMERGENCY EGRESS LIGHTING UNIT W/ WET LOCATION COVER
X	EVENLITE	TDCCOM-COLOR-U-FINISH-SD	120V	-	LED	SURFACE UNIVERSAL	THERMOPLASTIC COMBINATION EXIT/EMERGENCY LIGHT - SINGLE FACE - CHEVRONS AS SHOWN ON PLANS
XMT	EVENLITE	TDCCOM-COLOR-U-FINISH	120V	-	LED	UNIVERSAL	WET LOCATION RATED COMBINATION EXIT/EMERGENCY LIGHT - SINGLE FACE - CHEVRONS AS SHOWN ON PLANS
XS	EVENLITE	TDCCOM-COLOR-U-FINISH	120V	-	LED	UNIVERSAL	COMBINATION EXIT/EMERGENCY LIGHT - SINGLE FACE - CHEVRONS AS SHOWN ON PLANS
Y	EVENLITE	WVW-EM-FINISH	120V	-	LED	WALL	EXTERIOR EGRESS EMERGENCY LIGHT
AA	TECHBRITE	MWP07-135-27V-DDK-FINISH	120V	-	LED	WALL	LUMEN SELECTABLE EXTERIOR WALL-MOUNTED AREA LIGHT; SET TO 81W (40%)
BB	TECHBRITE	MWP07-70-27V-DDK-FINISH	120V	-	LED	WALL	EXTERIOR WALL-MOUNTED AREA LIGHT - SMALL HOUSING; SET TO 28W (40%)
BBE	TECHBRITE	MWP07-70-27V-DDK-FINISH-B	120V	-	LED	WALL	EXTERIOR WALL-MOUNTED AREA LIGHT - SMALL HOUSING W/ EMERGENCY BATTERY BACKUP; SET TO 28W (40%)



CRAIGHEAD ELECTRIC  
MAINTENANCE SHOP ADDITION  
4314 STADIUM BLVD.  
JONESBORO, ARKANSAS

ELECTRICAL NOTES, LEGEND, &  
INDEX

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Post Bid ADD #1

24-096

JOB. NO.

02.14.2025

DATE

ISSUE SET

E001





NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Post Bid ADD #1

24-096

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02.14.2025

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ISSUE SET

E201

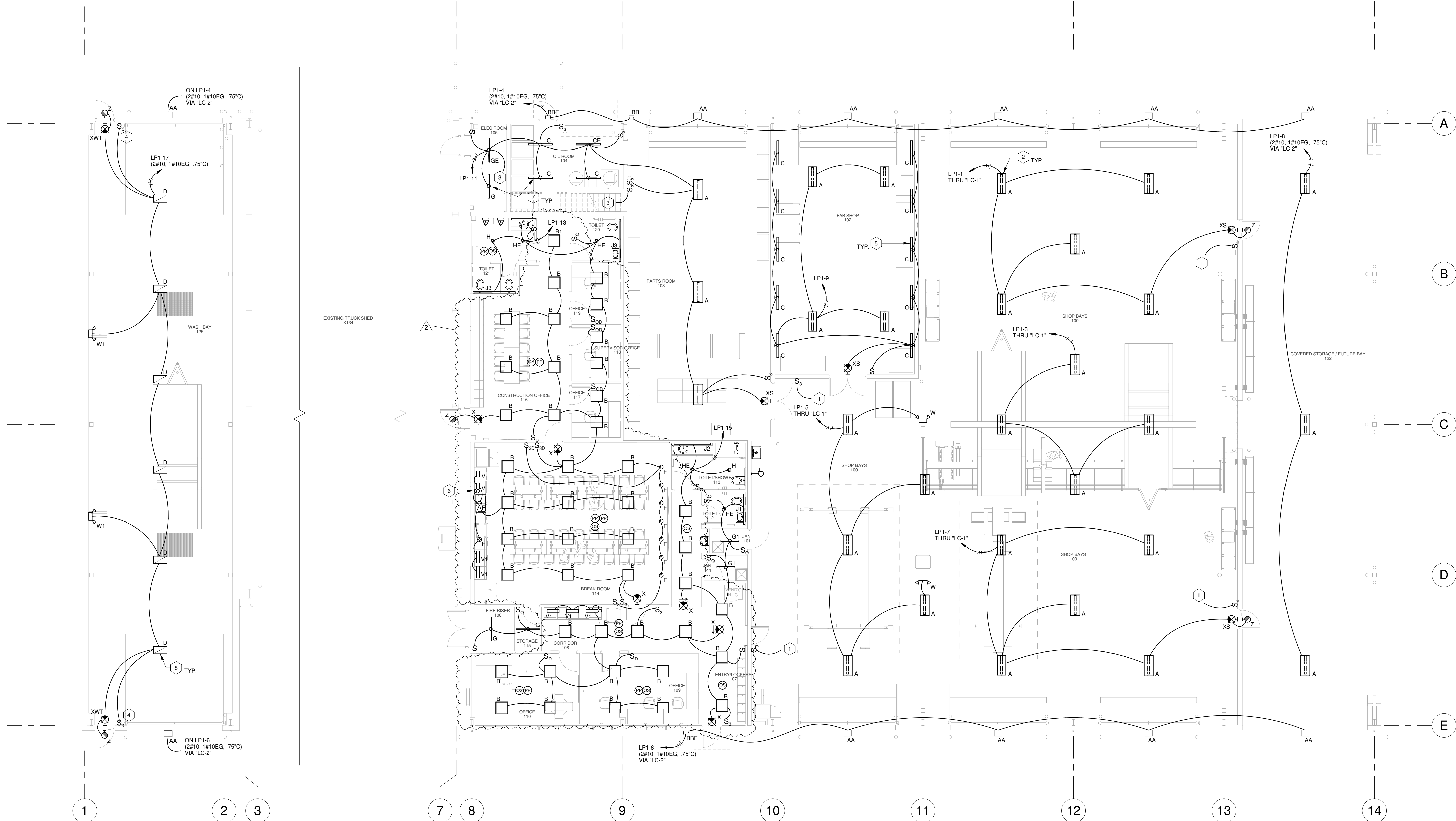
## GENERAL ELECTRICAL NOTES

1. ALL EXIT LIGHTS AND BATTERY BACKUP FOR EMERGENCY FIXTURES SHALL BE CIRCUITED WITH AN UN-SWITCHED HOT.
2. COORDINATE FINAL LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES WITH ARCHITECT PRIOR TO BEGINNING ROUGH-IN.
3. ALL CONDUIT, WIRING AND ELECTRICAL CONNECTIONS IN WASH BAY SHALL BE WATERTIGHT.
4. ALL CONDUIT INSTALLED ACROSS EXISTING TRUCK SHED SHALL BE ROUTED AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH EXISTING STRUCTURE AND UTILITIES.

## KEYED ELECTRICAL NOTES

- 1 TO LIGHTING CONTACTOR "LC-1" FOR SWITCHING OF SHOP BAY FIXTURES.
- 2 MOUNT TYPE "A" LIGHTING FIXTURES AT 28'-0" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE. TYPICAL ALL FIXTURES IN SHOP BAY, FAB SHOP, AND PARTS ROOM.
- 3 UP TO MEZZANINE STRIP FIXTURES. SEE SHEET E302 FOR CONTINUATION.
- 4 INSTALL SWITCHES THIS ROOM WITH FLIP-COVER TYPE COVER PLATES.
- 5 WALL MOUNT FIXTURES AT 9'-0" ABOVE FINISH FLOOR TO CENTERLINE OF FIXTURE.
- 6 GANG DISPOSAL AND UNDERCABINET LIGHTING SWITCH TOGETHER. UNDERCABINET LIGHTING SWITCH SHALL BE INSTALLED CLOSEST TO SINK.
- 7 MOUNT FIXTURES AT 9'-0" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURES.
- 8 MOUNT FIXTURES AT 20'-0" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURES.

## ELECTRICAL LIGHTING PLAN

1  
E201  
1/8" = 1'-0"



NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Reel B: ADD #1

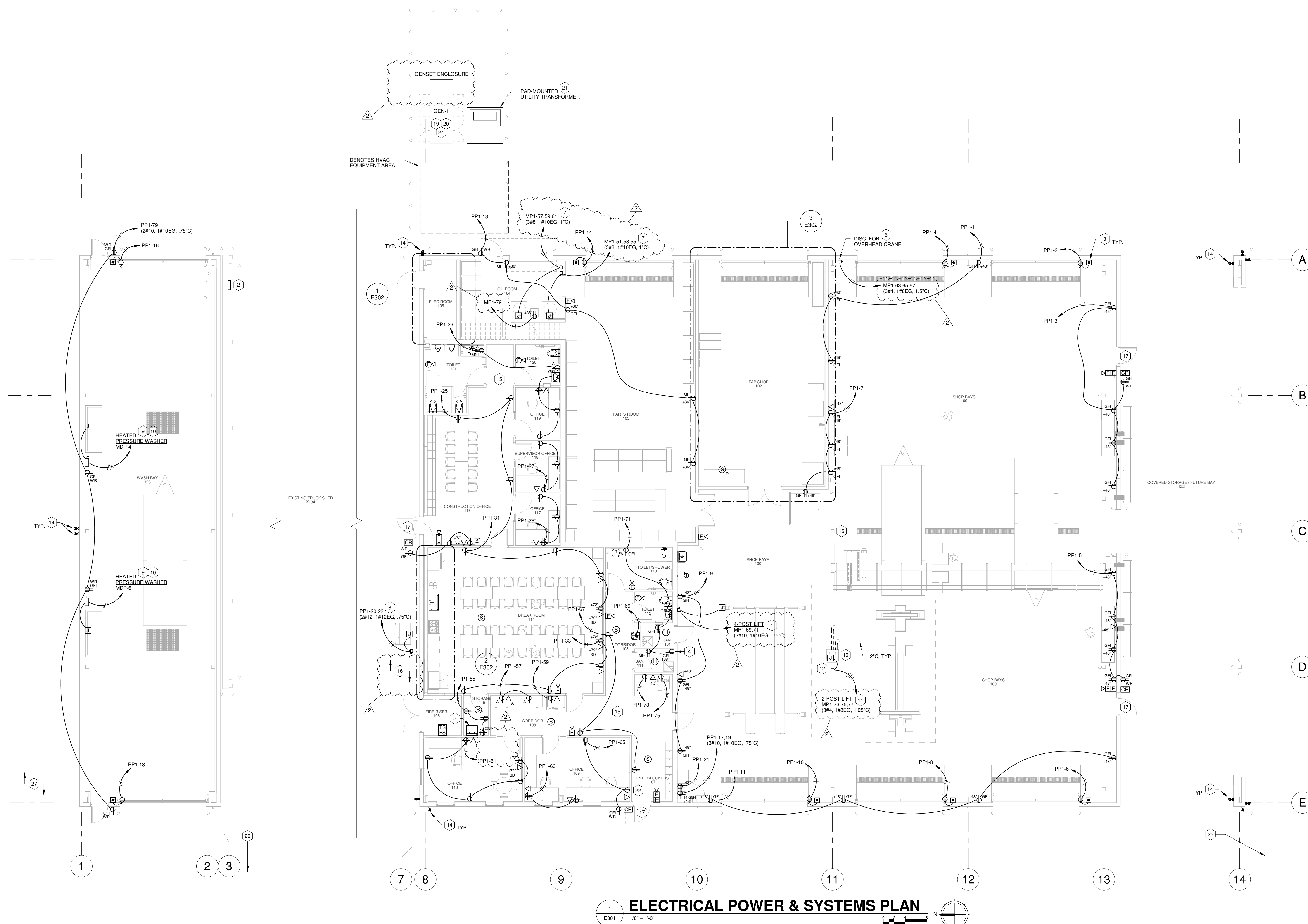
24-096

**JOB. NO.**

02.14.2025  
DATE

ISSUE SET

E301



1. VERIFY EXIST LOCATIONS OF ALL EQUIPMENT PRIOR TO BEGINNING ROUGH-IN AND PLACEMENT OF WIRING DEVICES, DISCONNECTS, ETC.
2. ALL CONDUIT, WIRING AND ELECTRICAL CONNECTIONS IN WASH BAY SHALL BE WATERTIGHT.
3. ALL CONDUIT INSTALLED ACROSS EXISTING TRUCK SHEET SHALL BE ROUTED AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH EXISTING STRUCTURE AND UTILITIES.
4. ALL WIRING DEVICES NOTED AS "ABOVE COUNTER" WITH AN "A" DESIGNATION AND ARE AT LOCATIONS WITH A BACKSPASH SHALL BE INSTALLED AT 48" ABOVE FINISH FLOOR TO CENTERLINE OF THE BACK BOX.
5. ALL WIRING DEVICES INSTALLED IN SHOP BAYS, PARTS & OIL ROOMS AND FAB SHOP SHALL BE INSTALLED WITH STAINLESS STEEL COVER PLATES.

1	PROVIDE AND INSTALL NEMA 1 NON-FUSIBLE DISCONNECT RATED 240V/30A/3P.
2	APPROXIMATE LOCATION OF EXISTING TUCK SHED PANELBOARD, RE- FEED PANELBOARD FROM NEW TRANSFORMER TIES. REFER TO ONE LINE DIAGRAM.
3	PROVIDE AND INSTALL ALL CONDUIT AND WIRING BETWEEN DOOR OPERATOR AND DOOR CONTROLLER. VERIFY EXACT MOUNTING LOCATION OF DOOR OPERATOR WITH DOOR INSTALLER PRIOR TO BEGINNING ROUGH-IN.
4	OUTLET FOR REGULATION PUMP. COORDINATE EXACT OUTLET HEIGHT WITH PLUMBING CONTRACTOR. MOUNT OUTLET WITHIN 6" OF ROUGH-IN.
5	PROVIDE AND INSTALL WALL-MOUNTED 120 VOLT CIRCUIT BREAKER.
6	PROVIDE AND INSTALL NEMA 1 NON-FUSIBLE DISCONNECT RATED 240V/100A/3P. STUB UP CONDUIT AND WIRING UP WALL NEAR OVERHEAD CARRIER BUS BARS. COORDINATE WITH OVERHEAD CARRIER CONTRACTOR FOR EXACT SUBSTATION AND MOUNT OF EXTRA SLACK NEEDED TO MAKE CONNECTIONS. OVERHEAD CARRIER CONTRACTOR TO MAKE CONNECTIONS TO CARRIER BUS BARS.
7	PROVIDE AND INSTALL NEMA 1 NON-FUSIBLE DISCONNECT RATED 240V/60A/3P.
8	PROVIDE AND INSTALL NEMA 3R NON-FUSIBLE DISCONNECT RATED 240V/30A/2P.
9	PROVIDE AND INSTALL NEMA 4X NON-FUSIBLE DISCONNECT RATED 240V/30A/2P.
10	REFER TO ONE-LINE DIAGRAM FOR FEEDER REQUIREMENTS.
11	PROVIDE AND INSTALL 240V/100A/3P NON-FUSIBLE DISCONNECT RATED 240V/100A/3P.
12	MOUNT DISCONNECT TO COLUMN AND ROUTE WIRING UNDERGROUND DOWN TO 2-POST LIFT POWER UNIT. INSTALL SEALS IN CONDUIT TO PREVENT MANUFACTURERS' INSTALLATION INSTRUCTIONS.
13	COORDINATE WITH OWNER'S EQUIPMENT INSTALLER TO PROVIDE AN INSTALLED 2" IN SLAB FROM LIFT POWER UNIT TO LIFT. INSTALL SEALS IN CONDUIT ENTERING POWER UNIT TO PREVENT MANUFACTURERS' INSTALLATION INSTRUCTIONS. VERIFY EXACT CONDUIT ROUTING AND CONNECTION LOCATIONS PRIOR TO BEGINNING ROUGH-IN.
14	SECURITY CAMERA ROUGH-IN. PROVIDE AND INSTALL 2-GANG BASK WITH (2) CAT 8 CABLES IN EACH BASK. VERIFY MOUNTING HEIGHTS AND SPACINGS PRIOR TO BEGINNING ROUGH-IN. ROUTE CAT 6 CABLES BACK TO STORAGE 115.
15	PROVIDE AND INSTALL (2) CAT 6 CABLES AT THIS APPROXIMATE LOCATION FOR WIRELESS ACCESS POINT.
16	PROVIDE AND INSTALL (1) 4" x 6" FROM STORAGE ROOM 115 OVERHEAD TO STORAGE ROOM 115 FOR FIBER OPTIC CABLES (BY OWNER). VERIFY EXACT STUB LOCATION AND HEIGHT WITH OWNER PRIOR TO BEGINNING ROUGH-IN.
17	SECURE DOOR REQUIRING ACCESS CONTROLS. REFER TO TYPICAL DOOR ACCESS CONTROL DETAIL FOR ADDITIONAL REQUIREMENTS.
18	NOT USED.

19	DIESEL GENERATOR (OWNER-FURNISHED, OWNER-INSTALLED). INSTALL EMPTY CONDUIT SUB-UPS BETWEEN GENERATOR AND TRANSFER SWITCH. REFER TO LINE DIAGRAM FOR REQUIREMENTS.
20	PROVIDE (2) 1" CONDUIT BETWEEN PANEL AND ATS FOR CONTROLS VERITY STUB UP LOCATION AT GENERATOR PAD. INSTALL PULL STOPS IN EMPTY CONDUIT.
21	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING TRANSFORMER PAD AND ALL SECONDARY CONDUIT AND WIRING. ELECTRICAL PAD REQUIREMENTS AND FINAL PLACEMENT OF TRANSFORMER WITH CECC.
22	APPROXIMATE LOCATION OF FIRE ALARM ANNUNCIATOR PANEL CONFORM LOCATION WITH OWNER PRIOR TO BEGINNING ROUGH-IN.
23	NOT USED.
24	(2) 1" STUB-UPS BETWEEN GENERATOR AND PANEL "EOT" FOR BATTERY CHARGER AND BLOCK HEATER CIRCUITS. VERITY STUB UP LOCATION. INSTALL PULL STOPS IN EMPTY CONDUIT.
25	PROVIDE AND INSTALL (1) POWER/COMMUNICATIONS FOR FIGHT GATE ENTRY. REFER TO ARCHITECTURAL SITE PLAN FOR GATE ENTRY CONNECT TO GENERATOR TO "PP1-28" AND PANEL "H4" (REG. 101). STUB UP COMMUNICATIONS CONDUIT IN STORAGE 115.
26	PROVIDE AND INSTALL (11) 1/2" (20W) AND (11) 1" (11) (COMMUNICATIONS) FOR WEST GATE ENTRY. REFER TO ARCHITECTURAL SITE PLAN FOR GATE LOCATION. CONDUIT GATE ENTRY TO "PP1-28" AND PANEL "H4A. 14REG. 105". STUB UP CONDUIT CONNECTIONS TO CONDUIT IN STORAGE 115.
27	GRINDER STATION. REFER TO CIVIL PLAN FOR EXACT LOCATION. CONDUIT GRINDER STATION CONTROL PANEL TO "MP1-50-52". CONDUIT 1/2" (20W) AND (11) 1" (11) COMMUNICATIONS PANEL (B10, 110REG. 101) FROM PANELBOARD TO CONTROL PANEL. VERIFY EXACT LOCATION OF CONTROL PANEL WITH INSTALLING CONTRACTOR.
28	NOT USED.

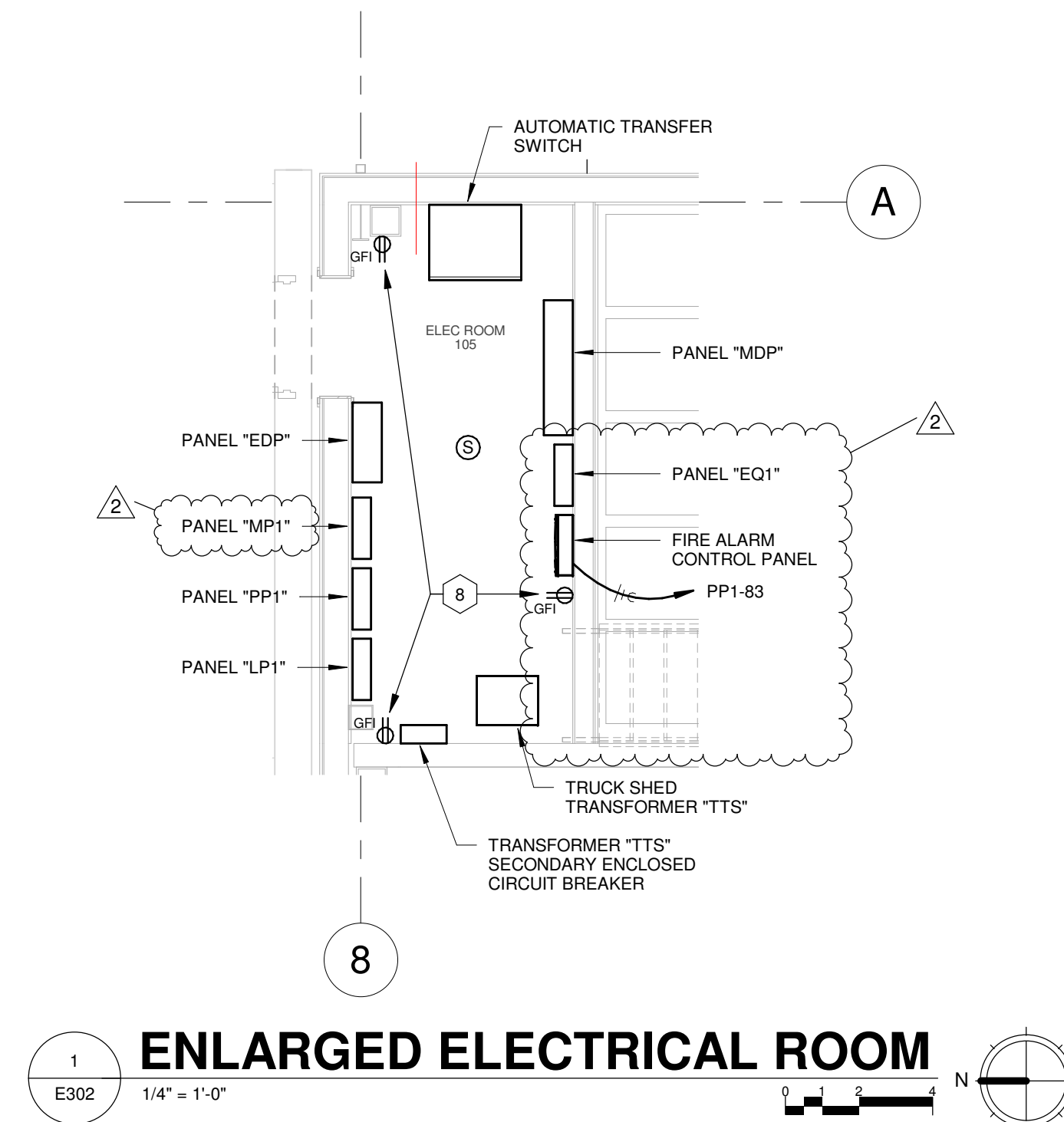


## GENERAL ELECTRICAL NOTES

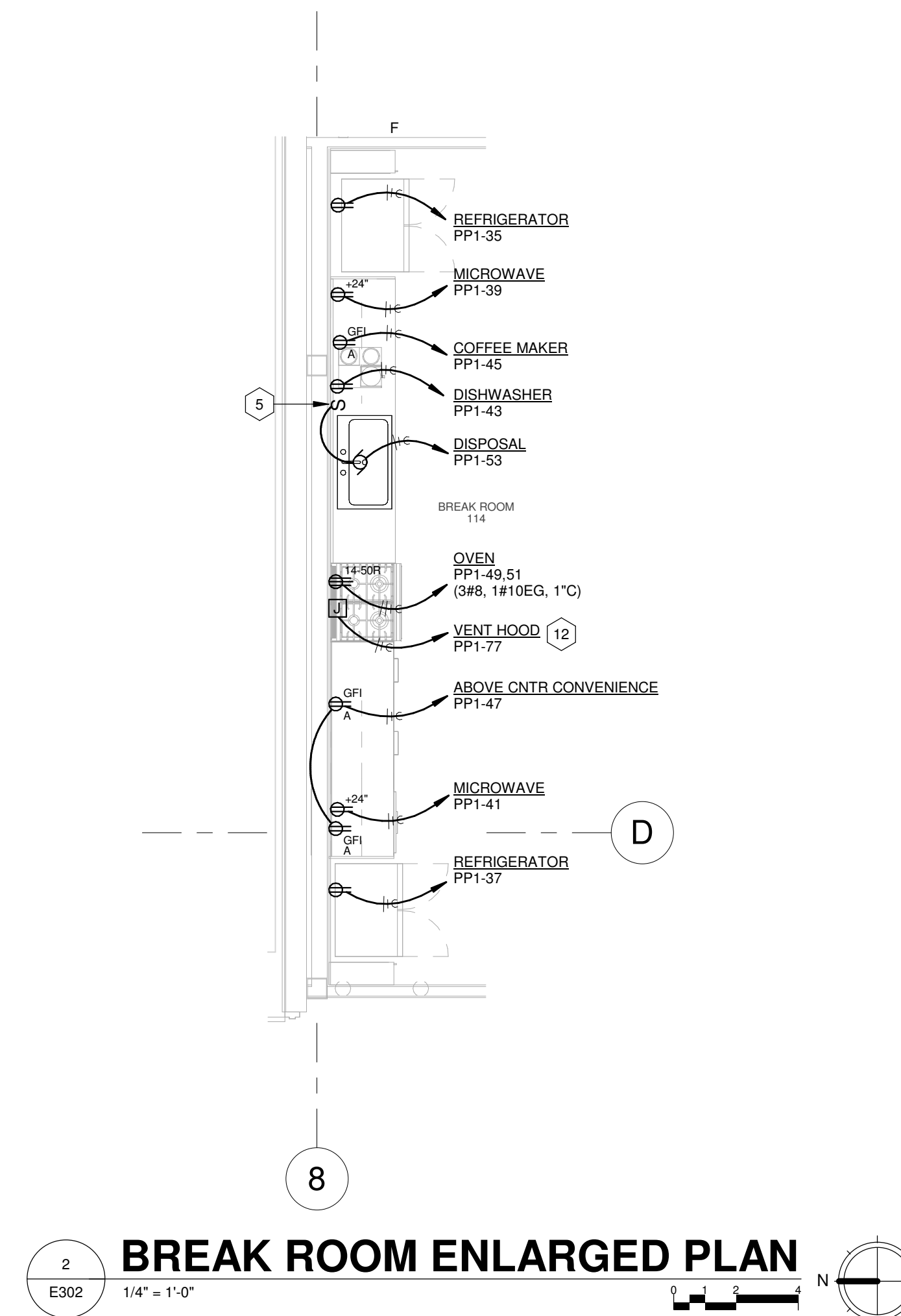
1. ALL EXIT LIGHTS AND BATTERY BACKUP FOR EMERGENCY FIXTURES SHALL BE CIRCUITED WITH AN UNSWITCHED HOT.
2. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO BEGINNING ROUGH-IN AND MOUNTING DISCONNECT/RECEPTACLES.
3. ALL WIRING DEVICES INSTALLED IN FAB SHOP SHALL BE INSTALLED WITH STAINLESS STEEL COVER PLATES.

## KEYED ELECTRICAL NOTES

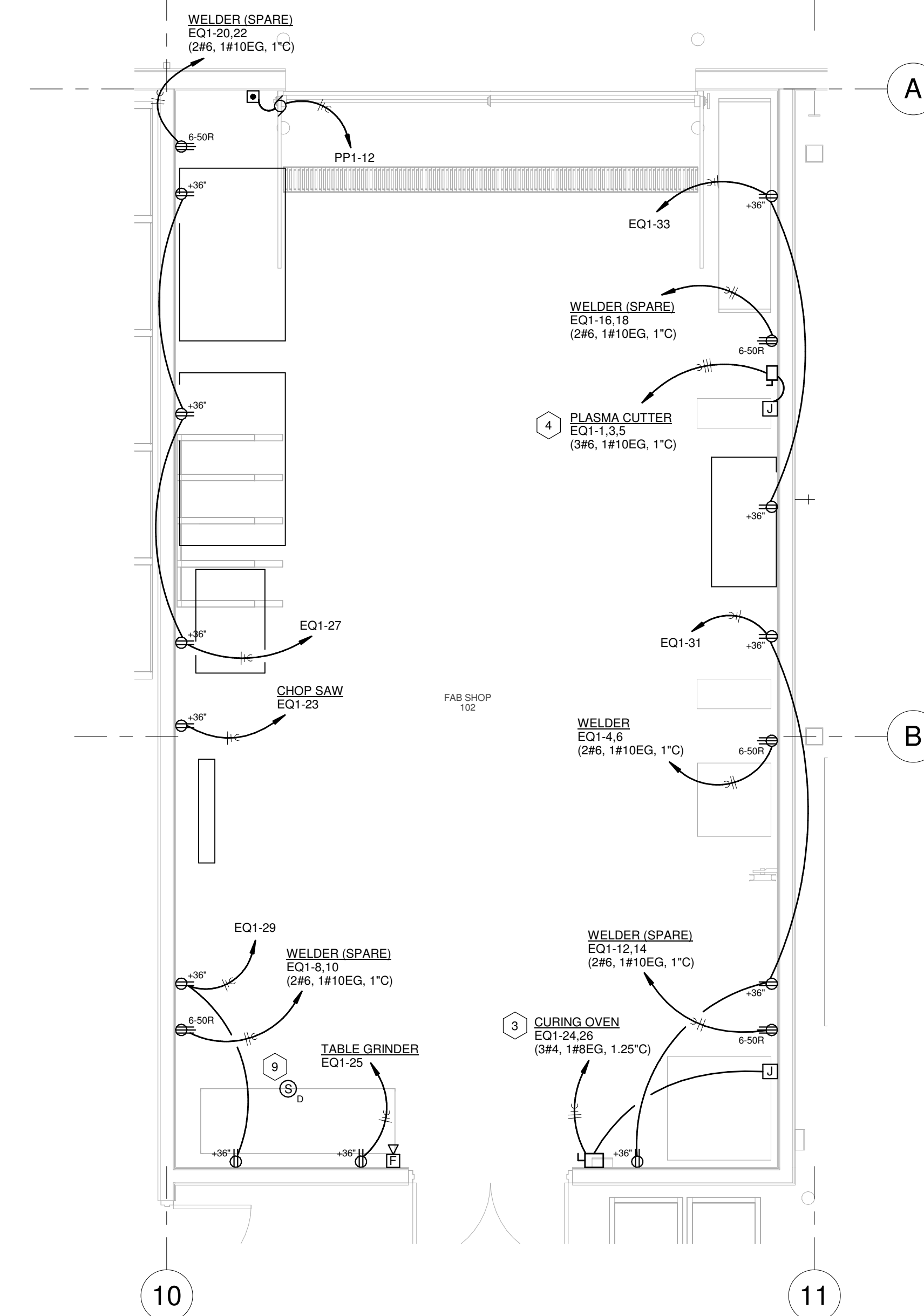
- 1 CIRCUITING CONTINUED FROM SWITCH IN PARTS ROOM. REFER TO LIGHTING PLAN SHEET E01.
- 2 CONNECT TO CIRCUIT "L-11" IN ELECTRICAL ROOM BELOW. REFER TO LIGHTING PLAN SHEET E01.
- 3 PROVIDE AND INSTALL NEMA 1 NON-FUSIBLE DISCONNECT RATED 240V/100A/2P.
- 4 PROVIDE AND INSTALL NEMA 1 NON-FUSIBLE DISCONNECT RATED 240V/60A/3P.
- 5 GASK DISPOSAL AND UNDERCABINET LIGHTING SWITCH TOGETHER. DISPOAL SWITCH SHALL BE INSTALLED FARTHEST FROM DISPO.
- 6 REFER TO MECHANICAL EQUIPMENT CIRCUIT SCHEDULE ON SHEET E401 FOR WIRING REQUIREMENTS. DISCONNECT SHALL BE MOUNTED SO THEY DO NOT INTERFERE WITH EQUIPMENT ACCESS OR OCCUPYED SPACE.
- 7 INTERLOCK OF LOWER LVL WITH DOAS-1 & DOAS-2 IS DONE BY MECHANICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ADDITIONAL REQUIREMENTS.
- 8 CONNECT RECEPTACLE TO "P191-15".
- 9 DUCT SMOKE DETECTOR FOR FCU-9. CONNECT TO FIRE ALARM SYSTEM. DETECTOR IS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- 10 DUCT SMOKE DETECTOR FOR DOAS-2. CONNECT TO FIRE ALARM SYSTEM. DETECTOR IS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- 11 KEEP ALL CONDUIT PENETRATIONS FOR OVERHEAD CABLES ALONG EXTERIOR WALL AS CLOSE AS POSSIBLE. CLOSELY COORDINATE AND LAYOUT AREAS OF CONDUIT PENETRATION WITH GENERAL CONTRACTOR FOR RE-ORGANIZING WORK.
- 12 CONNECT HOOD FIRE SUPPRESSION SYSTEM TO FIRE ALARM SYSTEM AS REQUIRED.



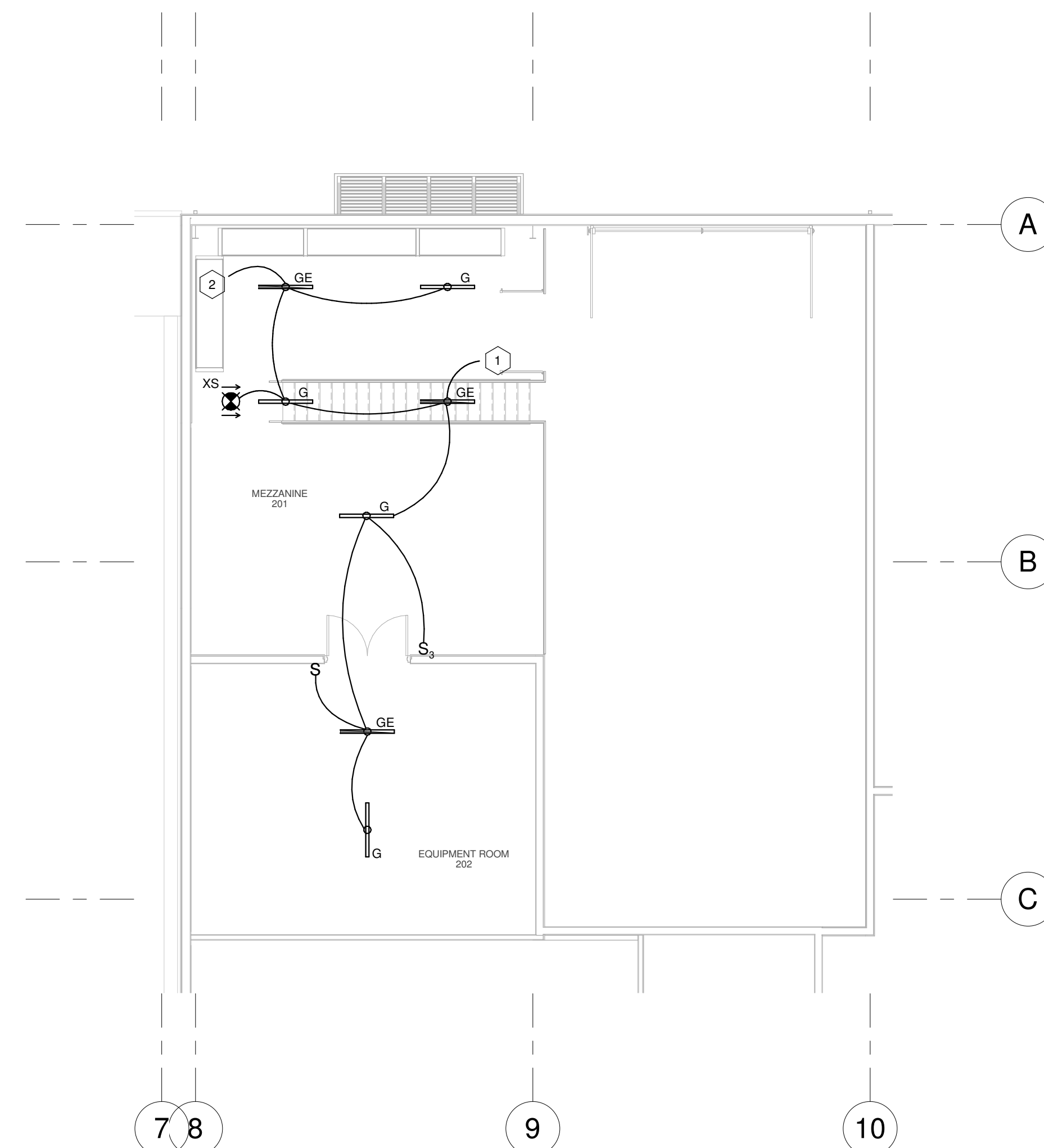
## ENLARGED ELECTRICAL ROOM



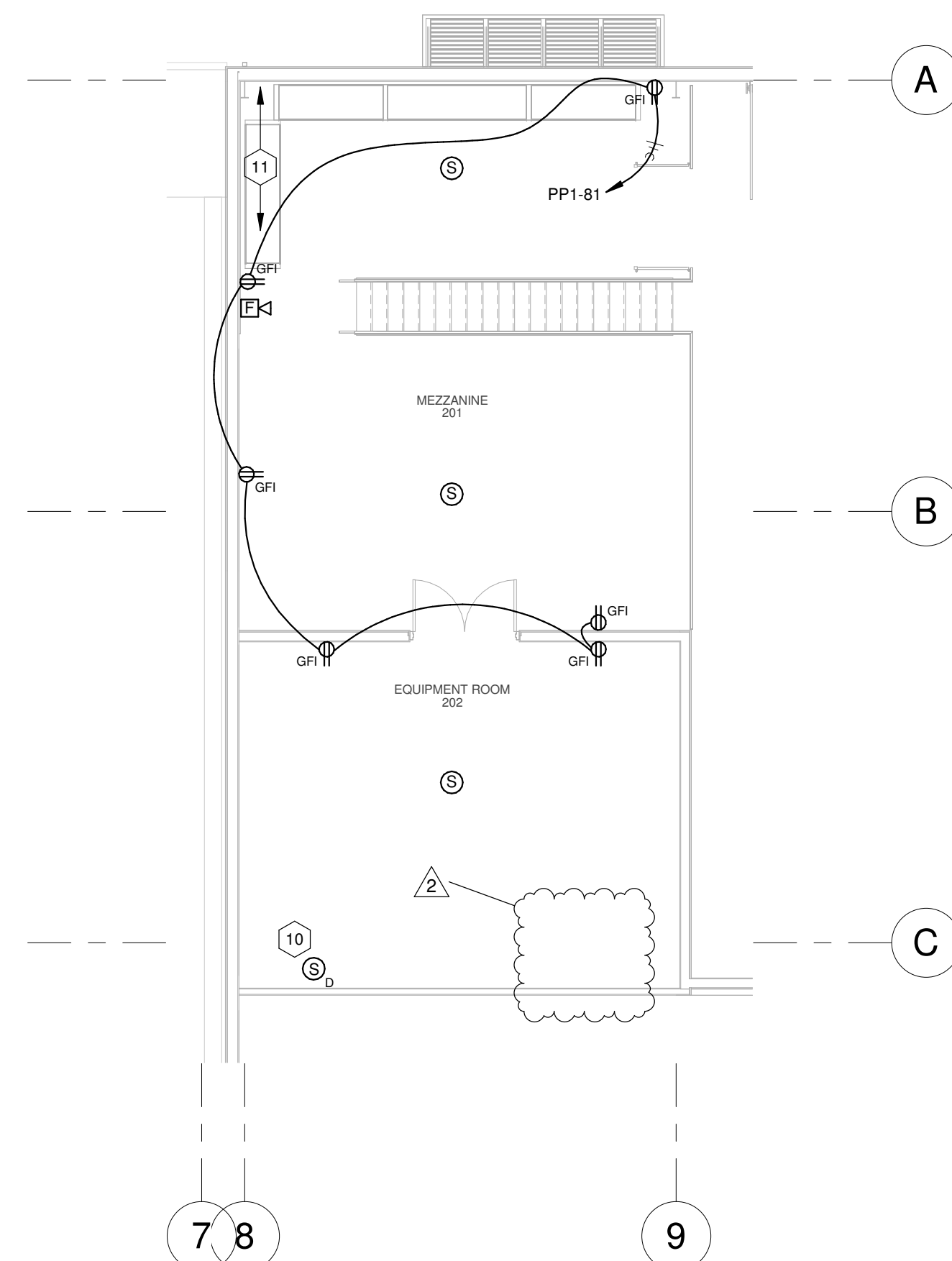
## BREAK ROOM ENLARGED PLAN



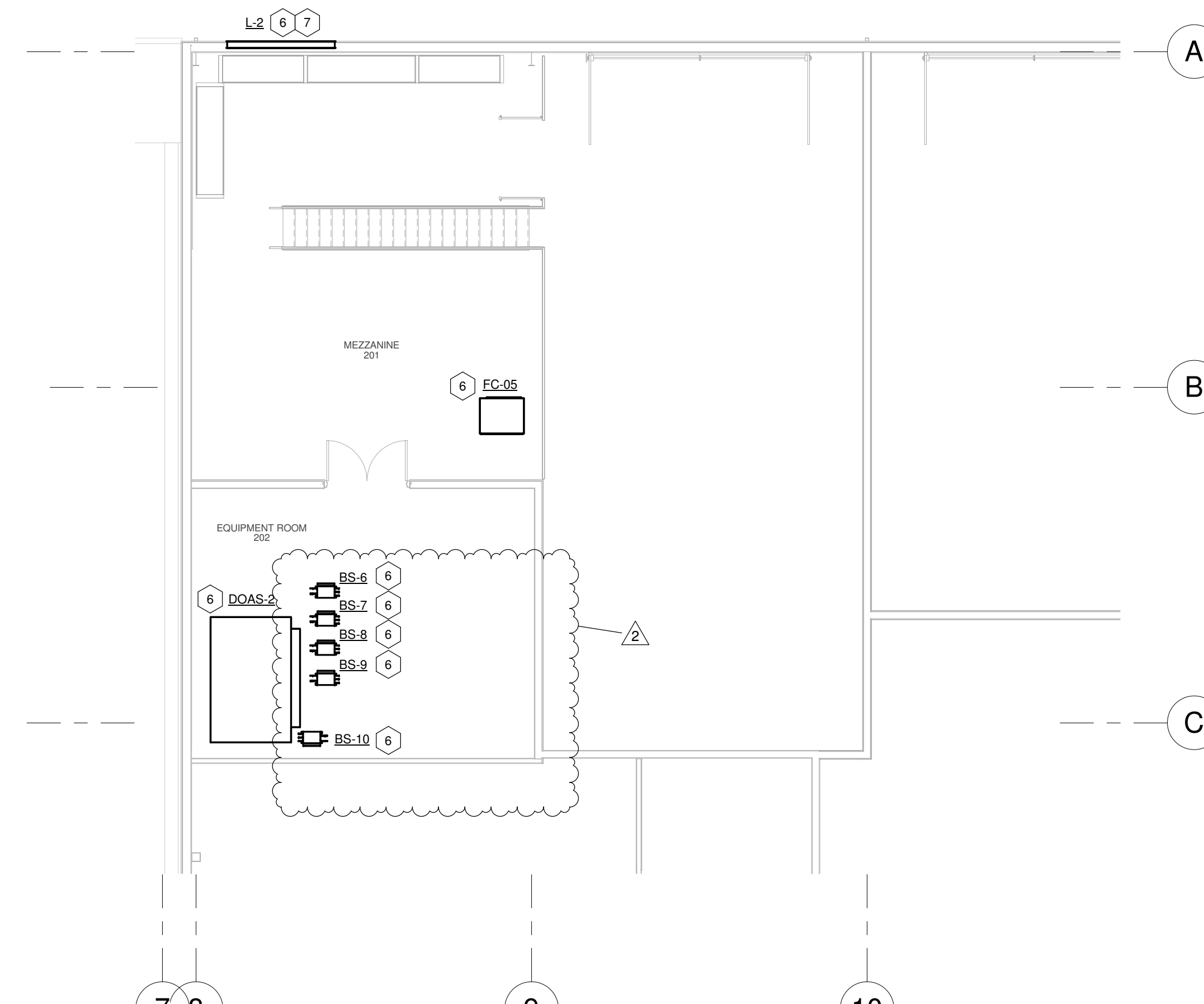
## FAB SHOP ENLARGED PLAN



## MEZZANINE LIGHTING PLAN



## MEZZANINE POWER PLAN



## MEZZANINE HVAC EQUIPMENT POWER PLAN

REVISIONS CONTENTS

NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Post Bid ADD #1

24-096

**JOB. NO.**

02.14.2025

ISSUE SET

# E302



HVAC EQUIPMENT CIRCUIT SCHEDULE				
ITEM	VOLTAGE	CIRCUIT	WIRE/CONDUIT	DISC.
DOAS-1	208/1	MP1-54,56	2#12, 1#12EG, .75°C	NF 240V/30A/2P
DOAS-1 PRE-HEATER	208/1	MP1-58,60	2#6, 1#10EG, .75°C	NF 240V/60A/2P
DOAS-2	208/3	MDP-8		SEE ONE-LINE DIAGRAM
DOAS-3				DELETED FROM PROJECT
HRU-1	208/3	EDP-7		SEE ONE-LINE DIAGRAM
HRU-D1	208/3	EDP-9		SEE ONE-LINE DIAGRAM
HRU-D2 - CIRCUIT #1	208/3	MDP-10		SEE ONE-LINE DIAGRAM
HRU-D2 - CIRCUIT #2	208/3	MDP-12		SEE ONE-LINE DIAGRAM
HRU-D2 - CIRCUIT #3	208/3	MDP-14		SEE ONE-LINE DIAGRAM
HRU-D3 - CIRCUIT #1				DELETED FROM PROJECT
HRU-D3 - CIRCUIT #2				DELETED FROM PROJECT
HRU-D3 - CIRCUIT #3				DELETED FROM PROJECT
FC-01	208/1	MP1-1,3	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-02	208/1	MP1-5,7	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-03	208/1	MP1-9,11	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-04	208/1	MP1-13,15	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-05	208/1	MP1-17,19	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-06	208/1	MP1-21,23	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-07	208/1	MP1-25,27	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-08	208/1	MP1-29,31	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
FC-09	208/1	MP1-33,35	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
EH-1	120V	MP1-37	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
EH-2	208/1	MP1-39,41	2#10, 1#10EG, .75°C	NEMA 4X STAINLESS NF 240V/30A/2P
EH-3	208/1	MP1-43,45	2#10, 1#10EG, .75°C	NEMA 4X STAINLESS NF 240V/30A/2P
EH-4	208/1	MP1-47,49	2#10, 1#10EG, .75°C	NEMA 4X STAINLESS NF 240V/30A/2P
WH-1	208/3	MP1-2,4,6	3#10, 1#10EG, .75°C	NF 240V/30A/3P
BS-1	208/1	MP1-8,10	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-2	208/1	MP1-8,10	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-3	208/1	MP1-8,10	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-4	208/1	MP1-12,14	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-5	208/1	MP1-12,14	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-6	208/1	MP1-16,18	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-7	208/1	MP1-16,18	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-8	208/1	MP1-16,18	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-9	208/1	MP1-16,18	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-10	208/1	MP1-16,18	2#12, 1#12EG, .75°C	DOUBLE POLE, SINGLE THROW 240/30A TOGGLE
BS-11				DELETED FROM PROJECT
BS-12				DELETED FROM PROJECT
BS-13				DELETED FROM PROJECT
BS-14				DELETED FROM PROJECT
BS-15				DELETED FROM PROJECT
DHP-1/DSS-1	208/1	MP1-24,26	2#12, 1#12EG, .75°C	NFRT 240V/30A/2P
EF-1	120V	MP1-28	2#12, 1#12EG, .75°C	NEMA 1 TOGGLE
EF-2	120V	MP1-30	2#12, 1#12EG, .75°C	NEMA 1 TOGGLE
EF-3	120V	MP1-32	2#10, 1#10EG, .75°C	NEMA 1 TOGGLE
EF-4	208/1	MP1-34,36	2#10, 1#10EG, .75°C	NF 240V/30A/2P
EF-5				DELETED FROM PROJECT
L-2	120V	MP1-42	2#12, 1#12EG, .75°C	
L-3	120V	MP1-42	2#12, 1#12EG, .75°C	
L-4	120V	MP1-42	2#12, 1#12EG, .75°C	
L-5	120V	MP1-42	2#12, 1#12EG, .75°C	
L-6	120V	MP1-42	2#12, 1#12EG, .75°C	
L-7	120V	MP1-42	2#12, 1#12EG, .75°C	
SPRINKLER AIR COMP.	208/3	EQ#38,37,39	3#12, 1#12EG, .75°C	NF 240V/30A/3P

SCHEDULE NOTES:  
1. DISCONNECT SAFETY SWITCHES: HD = HEAVY DUTY, NF = NON-FUSED, RT = NEMA 3R ENCLOSURE  
2. VERIFY REQUIREMENT FOR NEUTRAL CONDUCTORS PRIOR TO INSTALLATION.  
3. PROVIDE MULTI-CONDUCTOR INTERCONNECTION CABLE BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER INSTRUCTION. CONDUCTORS SHALL NOT BE SMALLER THAN #12AWG.  
4. ALL MANUAL MOTOR STARTERS AND DOUBLE-POLE SINGLE-THROW SWITCHES SHALL BE PROVIDED WITH A HANDLE PADLOCK ATTACHMENT.

## GENERAL ELECTRICAL NOTES

- VERIFY EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO BEGINNING ROUGH-IN AND PLACEMENT OF WIRING DEVICES, DISCONNECTS, ETC.
- ALL CONDUIT, WIRING AND ELECTRICAL CONNECTIONS IN WASH BAY SHALL BE WATERTIGHT.
- ALL CONDUIT INSTALLED ACROSS EXISTING TRUCK SHED SHALL BE ROUTED AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH EXISTING STRUCTURE AND UTILITIES.

## KEYED ELECTRICAL NOTES

- REFER TO MECHANICAL EQUIPMENT CIRCUIT SCHEDULE THIS SHEET FOR CIRCUITING REQUIREMENTS. DISCONNECTS SHALL BE MOUNTED SO THEY DO NOT INTERFERE WITH EQUIPMENT ACCESS OR CLEARANCE SPACE.
- ROUTE EXHAUST FAN CIRCUIT THRU TIMER (BY DIV. 23). COORDINATE LOCATION OF TIMER WITH MECHANICAL CONTRACTOR.
- ROUTE EXHAUST FAN CIRCUIT THRU LINE VOLTAGE THERMOSTAT IN STORAGE 115. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- INTERLOCKING OF LOUVERS L-4 & L-6 WITH EXHAUST FAN EF-3 IS DONE BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR ADDITIONAL REQUIREMENTS.
- INTERLOCKING OF LOUVER L-3 WITH EXHAUST FAN EF-4 IS DONE BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR ADDITIONAL REQUIREMENTS.
- PROVIDE AND INSTALL 120V FOR HEAT TRACE AT ICE MACHINE. CONNECT TO CIRCUIT "PP1-24".
- DISCONNECTS FOR OUTDOOR HRU UNITS SHALL BE INSTALLED ALONG THIS WALL.
- PROVIDE AND INSTALL 120V CIRCUIT FOR HVAC BMS CONTROL PANEL. CONNECT TO CIRCUIT "MP1-44".
- INTERLOCKING OF LOUVERS L-1 & L-2 WITH EF-4 IS DONE BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR ADDITIONAL REQUIREMENTS.
- DRY-PIPE SPRINKLER SYSTEM AIR COMPRESSOR LOCATED THIS ROOM. VERIFY EXACT LOCATION WITH FIRE PROTECTION CONTRACTOR.

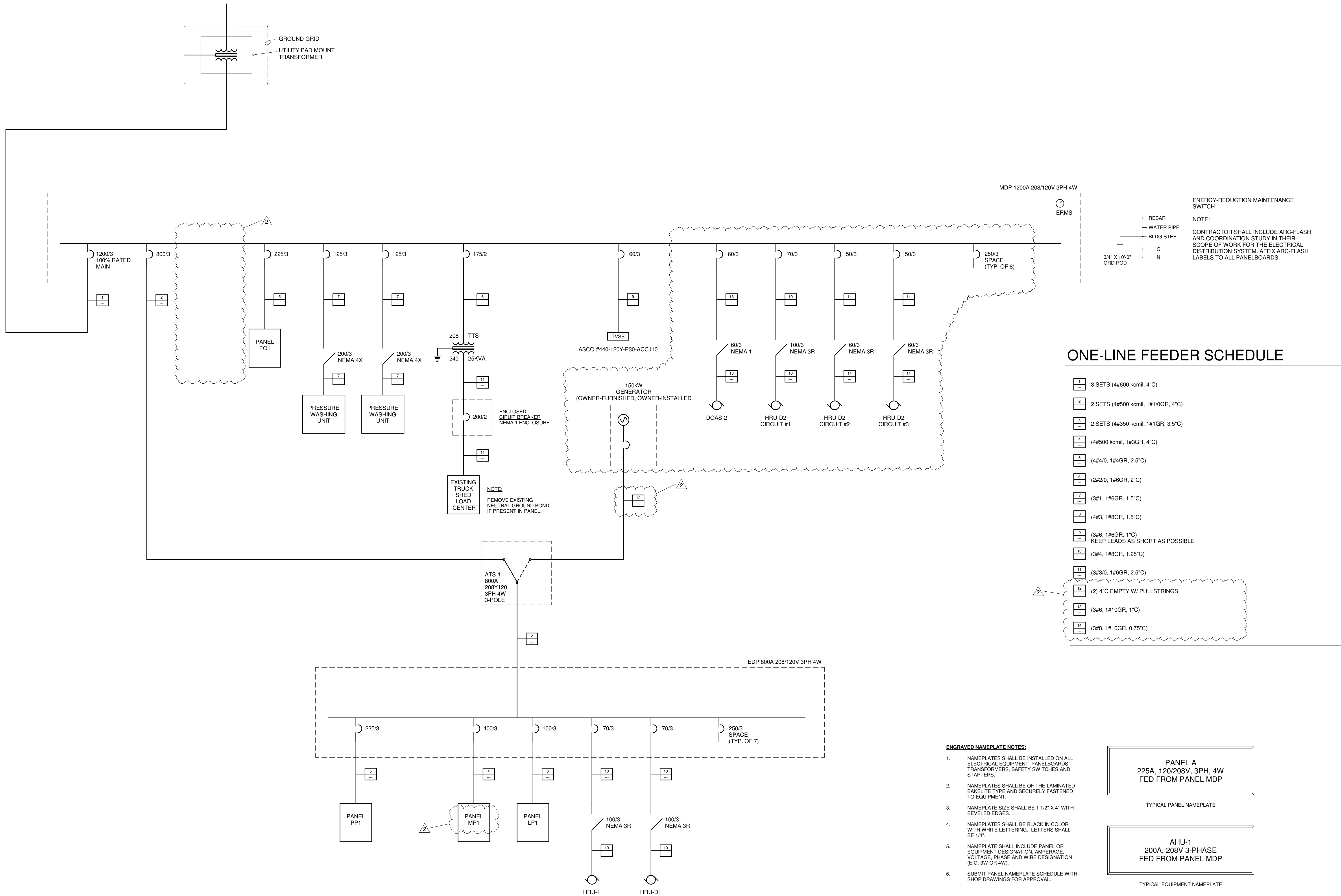
## HVAC EQUIPMENT POWER PLAN

1/8" = 1'-0"





4/18/2025 2:52:52 PM Autodesk Docs: Original Design Maintenance Shop - 6/16/25 2:52:52 PM: Original Design Maintenance Shop - 6/16/25 2:52:52 PM



1  
E501 NTS

## ELECTRICAL ONE-LINE DIAGRAM

2  
E501 1/8" = 1'-0"

## ELECTRICAL EQUIPMENT TAG DETAIL



NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	04/03/25	Post Bid ADD #1



24-096

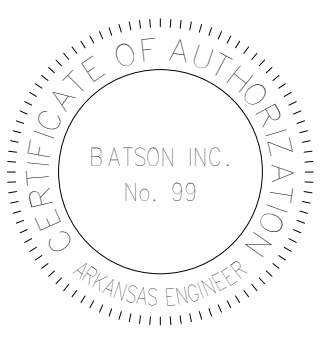
JOB. NO.

02.14.2025

DATE

ISSUE SET

E601



PANELBOARD SCHEDULE													
Panel Name:		MDP		Volts: 120/208		Mains: 1200A		Fed From: UTILITY		Interrupting Rating: 22KAIC			
TYPE:		SQUARE D "HCR-U"		phase: 3 wire: 4		lugs breaker: X X		surface flush: X		top bottom: X		COPPER BUS GROUND BAR	
BRANCH BREAKERS													
ITEM		CKT BKR	CKT NO.	LOAD (KVA)			LOAD(KVA)			CKT NO.	CKT BKR	ITEM	
PANEL "EDP"		800/3	1	A	B	C	A	B	C	2	600/3	TVSS	
				73.76									
					74.34								
TRUCK SHED TRANSFORMER		175/2	3	8.33	8.34		10.71			4		PRESSURE WASHER - WASH BAY	
SPACE W/ BUSSING		250/3	5				10.71			6		PRESSURE WASHER - WASH BAY	
PANEL "EQ1"		225/3	1	11.40			5.01			8	600/3	DOAS-2	
					8.59			5.01					
SPACE W/ BUSSING		250/3	9			15.55		5.01		10		HRU-D2 - CIRCUIT #1	
							5.60						
								5.60					
SPACE W/ BUSSING		250/3	11				4.13			12		HRU-D2 - CIRCUIT #2	
								4.13					
									4.13				
SPACE W/ BUSSING		250/3	13				4.13			14		HRU-D2 - CIRCUIT #3	
								4.13					
									4.13				
SPACE W/ BUSSING		250/3	15							16		SPACE W/ BUSSING	
SPACE W/ BUSSING		250/3	17							18		SPACE W/ BUSSING	
PROVIDE WITH 4-PIECE TRIM WITH DOOR. PROVIDE PANEL AS SERVICE ENTRANCE RATED.				93.49	91.21	93.56	40.29	40.29	40.29	PROVIDE PANEL WITH 100% RATED MAIN CIRCUIT BREAKER. PROVIDE PANEL WITH ERMS SWITCH.			
				133.78	131.50	133.85	TOTALS						
				399.13	TOTAL CONN. LOAD KVA								

PANELBOARD SCHEDULE													
Panel Name: EDP			Volts: 120/208		Mains: 800A		Fed From: ATS		Interrupting Rating: 22kAIC				
TYPE: SQUARE D "HCP-SU"			phase: 3	wire: 4	lugs: X	breaker: X	surface: X	flush: X	top: X	bottom: X	COPPER BUS GROUND BAR		
BRANCH BREAKERS													
ITEM			CKT BKR	CKT NO.	LOAD (KVA)			LOAD(KVA)			CKT NO.	CKT BKR	ITEM
PANEL "PP1"			225/3	1	24.22			4.27			2	100/3	PANEL "LP1"
						23.30			4.38				
SPACE W/ BUSSING			250/3	3			18.46			4.90	4	250/3	SPACE W/ BUSSING
PANEL "MP1"			400/3	5	33.14						6	250/3	SPACE W/ BUSSING
						34.53							
HRU-1			70/3	7	6.46			34.26			8	250/3	SPACE W/ BUSSING
						6.46							
HRU-D1			70/3	9	5.60		6.46				10	250/3	SPACE W/ BUSSING
						5.60							
SPACE W/ BUSSING			250/3	11			5.60				12	250/3	SPACE W/ BUSSING
PROVIDE WITH 4-PIECE TRIM WITH DOOR.					69.42	69.89	64.78	4.27	4.38	4.90	PROVIDE PANEL WITH 54" CIRCUIT BREAKER MOUNTING SPACE.		
					73.69	74.27	69.68	TOTALS					
					217.64			TOTAL CONN. LOAD KVA					

PANELBOARD SCHEDULE													
Panel Name:	LP1		Volts: 120/208		Mains: 100A		Fed From: EDP		Feeder:		Interrupting Rating: 22kAIC		
TYPE:	SQUARE D "NQ"		phase: 3	wire: 4	lugs X	breaker X	surface X	flush	top	bottom X	COPPER BUS GROUND BAR		
BRANCH BREAKERS													
ITEM		CKT BKR	CKT NO.	LOAD (KVA)			LOAD(KVA)			CKT NO.	CKT BKR	ITEM	
LIGHTS	SHOP BAY LIGHTS	201/1	1	1.42			0.01			2	201/1	LC-1 & LC-2 COIL VOLTAGE	
LIGHTS	SHOP BAY LIGHTS	201/1	3		1.14			1.12		4	201/1	LIGHTS EXT. WALL PACKS (EAST)	
LIGHTS	SHOP BAY LIGHTS	201/1	5			1.42			0.91	6	201/1	LIGHTS EXT. WALL PACKS (WEST)	
LIGHTS	SHOP BAY LIGHTS	201/1	7	1.42			0.52			8	201/1	LIGHTS EXTERIOR COVERED BAY	
LIGHTS	FAB SHOP	201/1	9		1.41			0.00		10	201/1	SPARE	
LIGHTS	PARTS/OIL ROOM, ELEC RM, MEZZ	201/1	11			1.20			0.00	12	201/1	SPARE	
LIGHTS	CONSTR. OFF. BREAK RM	201/1	13	0.90			0.00			14	201/1	SPARE	
LIGHTS	TLTS. CORRIDOR, OFFICE 109-110	201/1	15			0.71				16	201/1	SPACE W/ BUSSING	
LIGHTS	WASH BAY	201/1	17			1.37				18	201/1	SPACE W/ BUSSING	
SPARE		201/1	19	0.00						20	201/1	SPACE W/ BUSSING	
SPARE		201/1	21		0.00					22	201/1	SPACE W/ BUSSING	
SPARE		201/1	23			0.00				24	201/1	SPACE W/ BUSSING	
SPARE		201/1	25	0.00						26	201/1	SPACE W/ BUSSING	
SPARE		201/1	27			0.00				28	201/1	SPACE W/ BUSSING	
SPARE		201/1	29			0.00				30	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	31							32	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	33							34	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	35							36	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	37							38	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	39							40	201/1	SPACE W/ BUSSING	
SPACE W/ BUSSING		201/1	41							42	201/1	SPACE W/ BUSSING	
				3.74	3.26	3.99	0.53	1.12	0.91	TOTALS			
				4.27	4.38	4.90							
				13.55			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE													
Panel Name:		PP1		Volts: 120/208		Mains: 225A		Fed From:		EDP		Interrupting Rating: 22kAIC	
TYPE:		SQUARE D "NQ"		phase: 3	wire: 4	lugs: X	breaker: X	surface: X	flush: top	Feeder: bottom	COPPER BUS GROUND BAR		
BRANCH BREAKERS													
ITEM		CKT	CKT	LOAD (KVA)			LOAD(KVA)			CKT	CKT	ITEM	
RECPTS	SHOP BAYS	201/1	1	0.80			1.50			2	201/1	OVERHEAD DOOR - SHOP BAY	
RECPTS	SHOP BAYS, EXTERIOR	201/1	3		1.00			1.50		4	201/1	OVERHEAD DOOR - SHOP BAY	
RECPTS	SHOP BAYS, EXTERIOR	201/1	5			1.00			1.50	6	201/1	OVERHEAD DOOR - SHOP BAY	
RECPTS	SHOP BAYS	201/1	7	0.80			1.50			8	201/1	OVERHEAD DOOR - SHOP BAY	
RECPTS	SHOP BAYS	201/1	9			0.60		1.50		10	201/1	OVERHEAD DOOR - SHOP BAY	
RECPTS	SHOP BAYS	201/1	11			0.80			1.50	12	201/1	OVERHEAD DOOR - FAB SHOP	
RECPTS	PARTS & OIL ROOMS, EXTERIOR	201/1	13	1.00			1.50			14	201/1	OVERHEAD DOOR - PARTS ROOM	
RECPTS	ELECTRICAL ROOM	201/1	15			0.60		1.50		16	201/1	OVERHEAD DOOR - WASH BAY	
DRYER - SHOP BAY		30/2	17			2.50			1.50	18	201/1	OVERHEAD DOOR - WASH BAY	
			19	2.50			1.24			20	201/1	ICE MACHINE - TRUCK SHED	
WASHING MACHINE - SHOP BAY			21		1.80	21	1.24			22			
RECPTS OFFICE 119, TLTS 120, 121			23			1.20			0.18	24	201/1	ICE MACHINE HEAT TRACE	
RECPTS CONSTR. OFFICE 116, EXT.			25	1.20			1.18			26	201/1	WEST ENTRY GATE	
RECPTS SUPERVISOR OFFICE 118			27			0.80		1.18		28	201/1	SOUTH ENTRY GATE	
RECPTS OFFICE 117			29			0.80			0.00	30	201/1	SPARE	
RECPTS BREAK ROOM 114			31	0.80			0.00			32	201/1	SPARE	
RECPTS BREAK ROOM 114			33		0.60			0.00		34	201/1	SPARE	
REFRIGERATOR - BREAK ROOM 114			35			1.00			0.00	36	201/1	SPARE	
REFRIGERATOR - BREAK ROOM 114			37		1.00					38	201/1	SPARE	
MICROWAVE - BREAK ROOM 114			39			1.20				40	201/1	SPARE	
MICROWAVE - BREAK ROOM 114			41			1.20				42		SPACE W/ BUSSING	
DISHWASHER - BREAK ROOM 114			43	1.00						44		SPACE W/ BUSSING	
COFFEE MAKER - BREAK ROOM 114			45		1.20					46		SPACE W/ BUSSING	
ABOVE COUNTER - BREAK ROOM 114			47			0.40				48		SPACE W/ BUSSING	
OVEN - BREAK ROOM 114		50/2	49			4.00				50		SPACE W/ BUSSING	
			51		4.00					52		SPACE W/ BUSSING	
DISPOSAL - BREAK ROOM 114		201/1	53			1.18				54		SPACE W/ BUSSING	
RECPTS STORAGE 115		201/1	55	0.80						56		SPACE W/ BUSSING	
ABOVE CNTR WORK AREA - CORRIDOR 108		201/1	57			0.40				58		SPACE W/ BUSSING	
CORR - WORK AREA IN CORRIDOR 108		201/1	59			1.00				60		SPACE W/ BUSSING	
RECPTS OFFICE 110		201/1	61		1.20					62		SPACE W/ BUSSING	
RECPTS OFFICE 109		201/1	63		0.80					64		SPACE W/ BUSSING	
RECPTS OFFICE 109, EXTERIOR		201/1	65			0.80				66		SPACE W/ BUSSING	
RECPTS ENTRY 107, CORRIDOR 108		201/1	67		0.60					68		SPACE W/ BUSSING	
ELECTRIC WATER COOLER - CORRIDOR 108		201/1	69			1.18				70		SPACE W/ BUSSING	
RECPTS TLTS 112,113, JAN 110, 111, RECIRC		201/1	71			1.00				72		SPACE W/ BUSSING	
VENDING MACHINE - CORRIDOR 108		201/1	73	1.00						74		SPACE W/ BUSSING	
VENDING MACHINE - CORRIDOR 108		201/1	75		1.00					76		SPACE W/ BUSSING	
VENT HOOD - BREAK ROOM 114		201/1	77			0.30				78		SPACE W/ BUSSING	
RECPTS WASH BAY		201/1	79		0.80					80		SPACE W/ BUSSING	
RECPTS MEZZANINE & MEZZ EQUIP ROOM		201/1	81		1.20	0.60				82		SPACE W/ BUSSING	
FIRE ALARM CONTROL PANEL		201/1	83			0.60				84		SPACE W/ BUSSING	
PROVIDE GFCI TYPE BREAKERS FOR THE FOLLOWERS FOR THE FOLLOWING CKTS: #1 THRU #13, # 21, #35 THRU #43, #49,51, #69, #73, #75, #21, #35 THRU #43				17.30	16.38	13.78	6.92	6.92	4.68	PROVIDE GFEP TYPE CIRCUIT BREAKERS FOR THE FOLLOWING CKTS: #24.			
				24.22	23.30	18.46	TOTALS						
				65.98	TOTAL CONN. LOAD KVA								



NO.	DATE	DESCRIPTION
1	03/06/25	ADD #1
2	03/10/25	ADD #2
3	04/03/25	Post Bldg ADD #1

24-096

02.14.2025

ISSUE SET

F101



1  
F101  
1/8" = 1'-0"

**FIRE PROTECTION FLOOR PLAN**

1/8" = 1'-0"

**KEYED NOTES:**

- 1 SEE CIVIL FOR CONTINUATION.
- 2 FIRE SERVICE RISES TO DCDA AND WET AND DRY PIPE RISERS.
- 3 WET PIPE SPRINKLER SYSTEM TO BE PROVIDED FOR BUILDING AS INDICATED BY OUTLINE.
- 4 ALL FIRE PROTECTION PIPING TO BE SIZED BY FIRE PROTECTION CONTRACTOR.
- 5 MEZZANINE ABOVE. SEE 1/F001.
- 6 FIRE DEPARTMENT SIAMSE CONNECTION. COORDINATE EXACT LOCATION WITH FIELD VERIFIED FIRE HYDRANT LOCATION. SEE CIVIL PLANS FOR EXACT LOCATION. PROVIDE 'FDC' SIGN ABOVE WITH MINIMUM 4" RED LETTERS.
- 7 DOMESTIC WATER BACKFLOW PREVENTER. COORDINATE WITH PLUMBING.
- 8 NOT USED.
- 9 BELOW MEZZANINE, SPRINKLER MAINS TO ROUTE OVER LOWER CEILINGS OF OFFICES. BRANCH LINES TO RISE AND ROUTE BETWEEN BEAMS SUPPORTING MEZZANINE.
- 10 AREA INDICATED BY OUTLINE PROTECTED BY DRY PIPE SPRINKLER SYSTEM. PROTECTED AREAS TO INCLUDE COVERED STORAGE/FUTURE BAY 122, EXISTING TRUCK SHED 134 AND WASH BAY 125.

