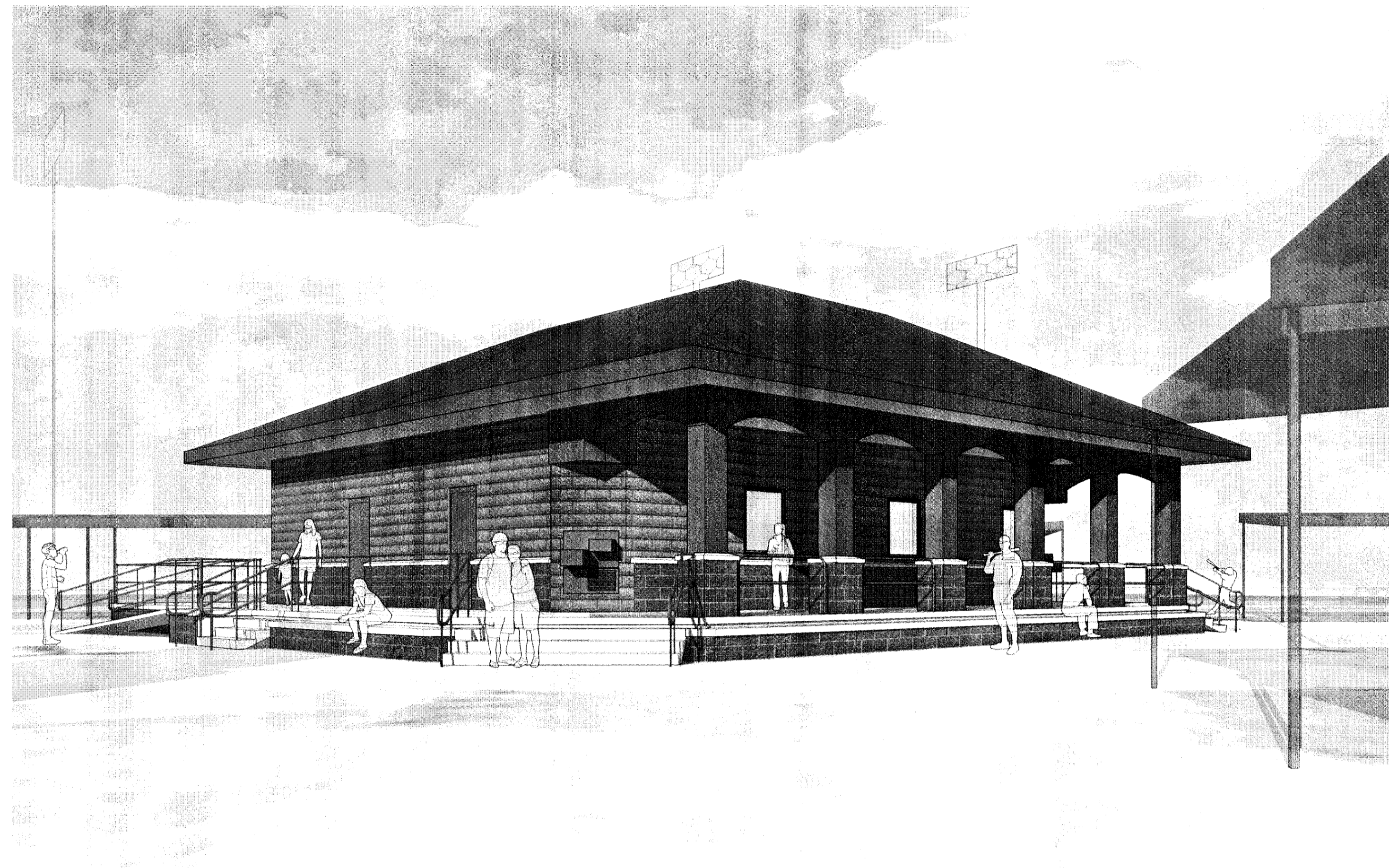


# CONCESSION BUILDING - CITY OF JONESBORO

JONESBORO, AR



## CONSULTANTS

**ARCHITECT:** Fisher & Arnold, Inc., 9180 Crestwyn Hills Drive, Memphis, Tennessee 38125

**CIVIL ENGINEER:** Fisher & Arnold, Inc., 9180 Crestwyn Hills Drive, Memphis, Tennessee 38125

**STRUCTURAL ENGINEER:** Tom Robison and Associates, Inc., 1715 Kirby Pkwy, Suite 201, Memphis, Tennessee 38120

**MECHANICAL ENGINEER:** Haltom Engineering, LLC., 495 Mulberry, Memphis, Tennessee 38103

**ELECTRICAL ENGINEER:** Fisher & Arnold, Inc., 1507 Alex Drive, Birmingham, AL 35210



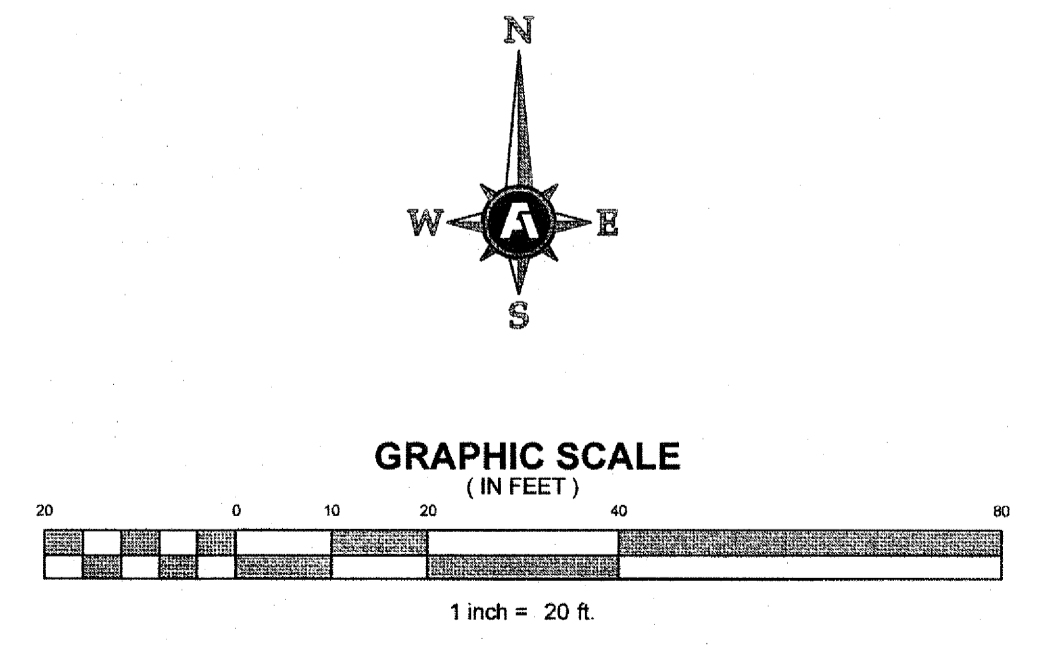
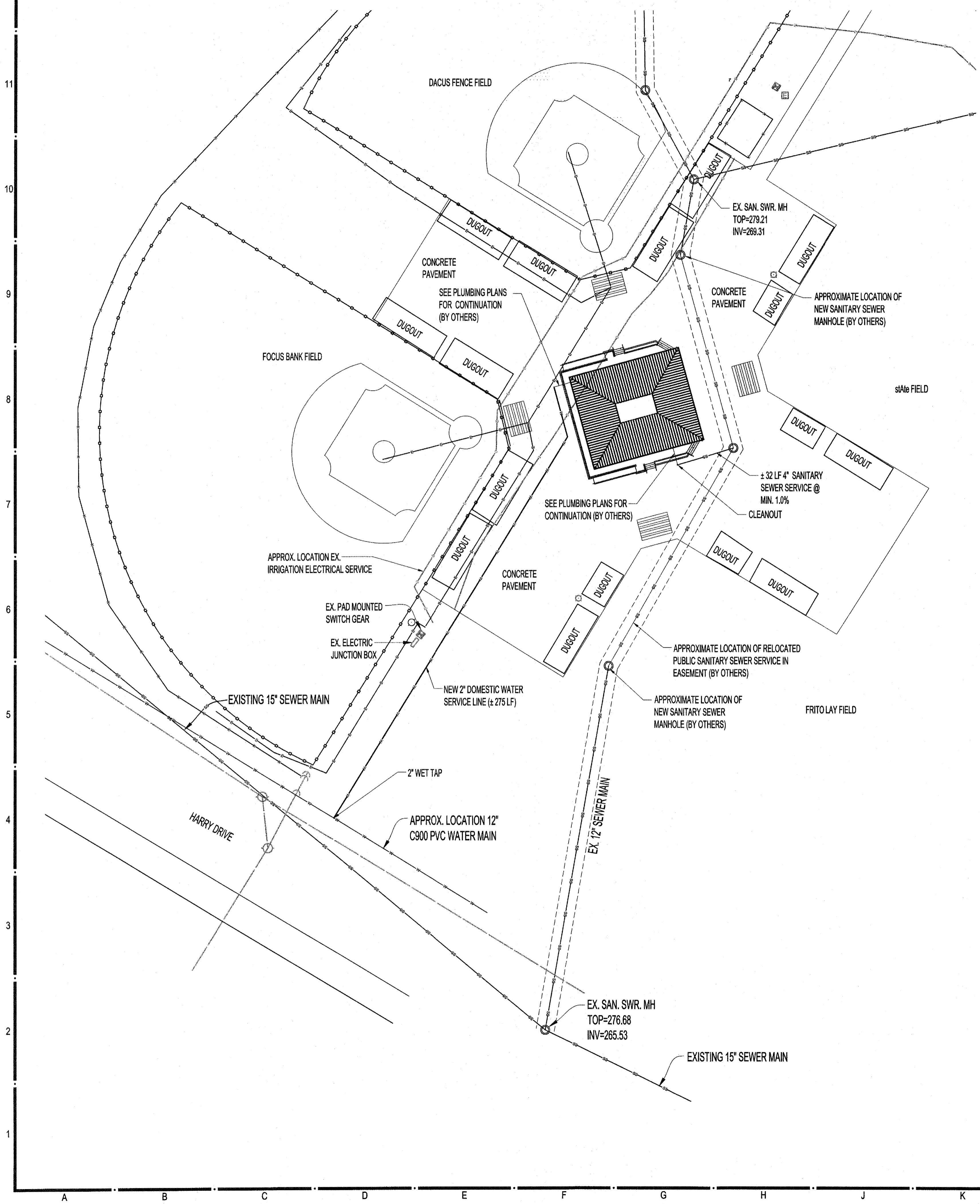
9180 Crestwyn Hills Drive | Memphis, Tennessee 38125-8538  
901.748.1811 | Fax: 901.748.3115 | [www.fisherarnold.com](http://www.fisherarnold.com)

## CONSTRUCTION DOCUMENTS

10/6/2017

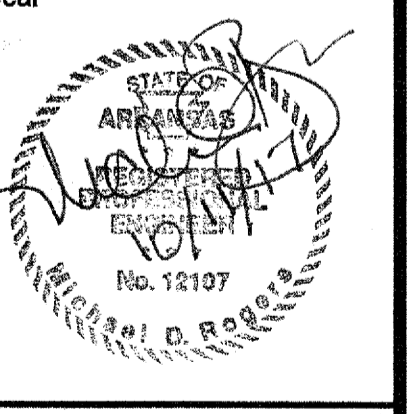
**DEMOLITION NOTES:**

1. UTILITY LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY LOCATING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. DEMOLITION NOTATIONS ARE INTENDED AS A GUIDE ONLY. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND BE PREPARED TO REMOVE ANY EXISTING IMPROVEMENTS OR SITE CONDITIONS THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS.
3. EXISTING PAVEMENT REQUIRED TO BE REMOVED FOR INSTALLATION OF WATER AND SEWER UTILITIES SHALL BE SAW-CUT AND REMOVED. CONTRACTOR SHALL REPLACE CONCRETE PAVEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.
4. ALL DEMOLITION DEBRIS IS TO BE HAULED OFF SITE TO AN APPROPRIATE DUMPING FACILITY.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AND/OR DEMOLITION LIMITS WHICH ARE SHOWN TO REMAIN, AS WELL AS ANY DISCOVERED FACILITIES OR UTILITIES WHICH ARE STILL ACTIVE.
6. COORDINATE THE DEMOLITION AND/OR ABANDONMENT OF EXISTING FACILITIES WITH UTILITY OWNERS. REFER TO ARCHITECTURAL, ELECTRICAL AND PLUMBING PLANS AS THEY PERTAIN TO DEMOLITION AND/OR ABANDONMENT OF EXISTING UTILITY LINES.
7. CONTRACTOR SHALL MEET ALL STATE AND LOCAL REGULATIONS GOVERNING INSTALLATION OF SANITARY SEWER AND DOMESTIC WATER SERVICE UTILITIES.



COMPLEX 4  
CONCESSION BUILDING  
JONESBORO, ARKANSAS

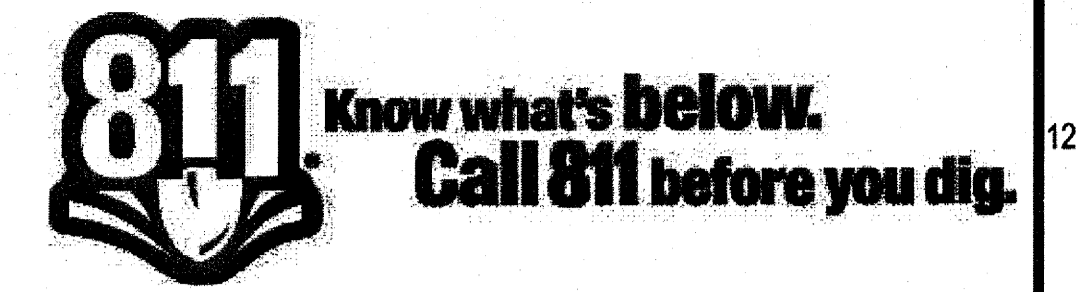
Rev.	Date	Revision Description



Issue Date: 10/5/2017  
Project No: F10472  
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Sheet Title:

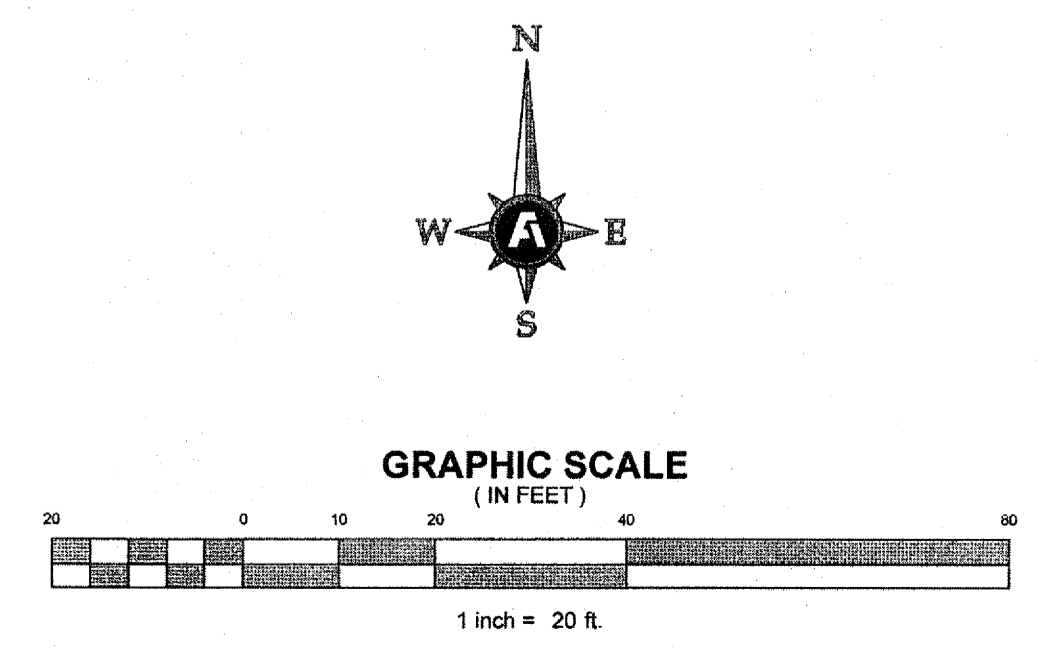
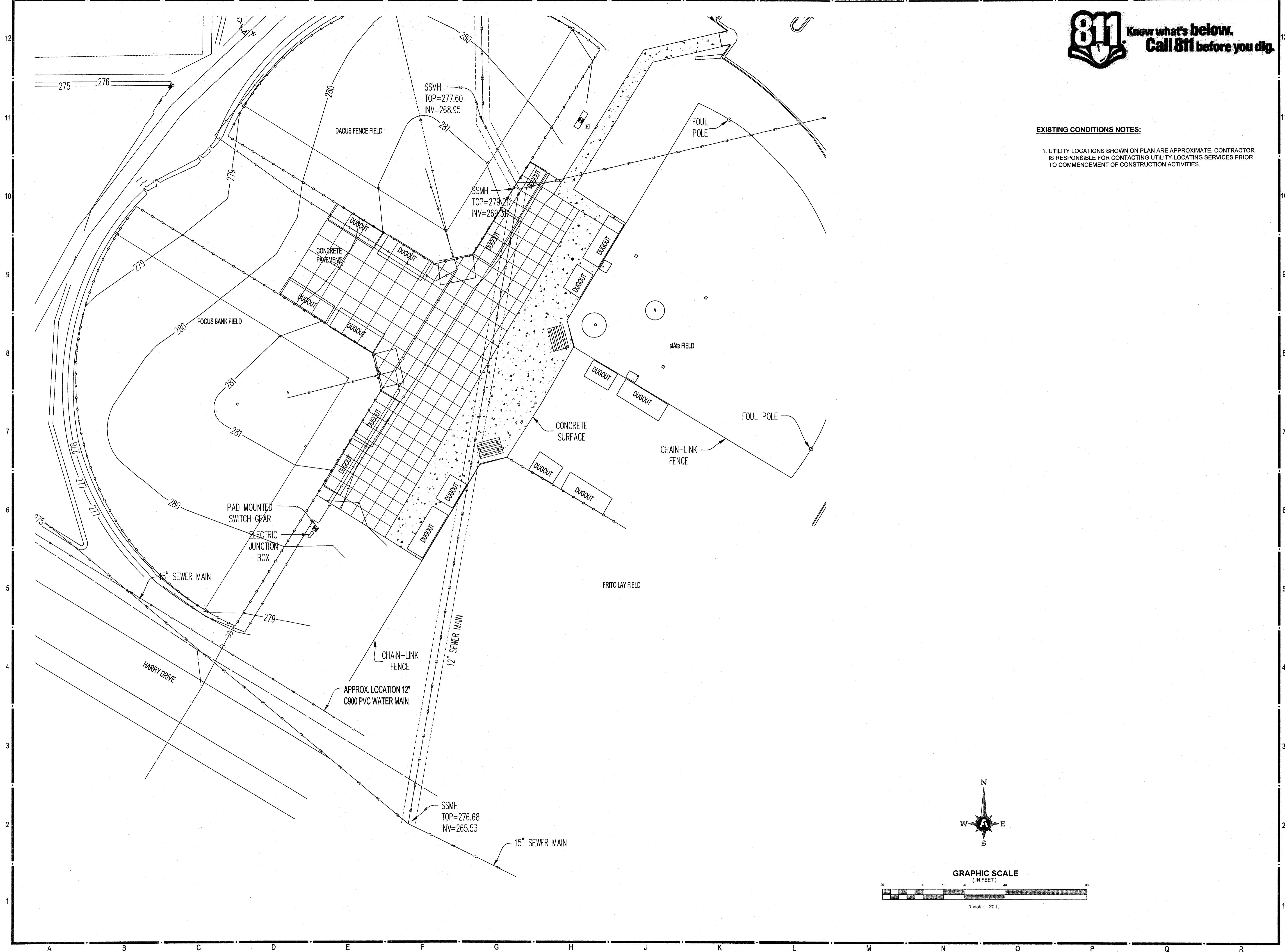
**UTILITY PLAN**

C200



**EXISTING CONDITIONS NOTES:**

1. UTILITY LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY LOCATING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.



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COMPLEX 4  
**CONCESSION BUILDING**  
JONESBORO, ARKANSAS

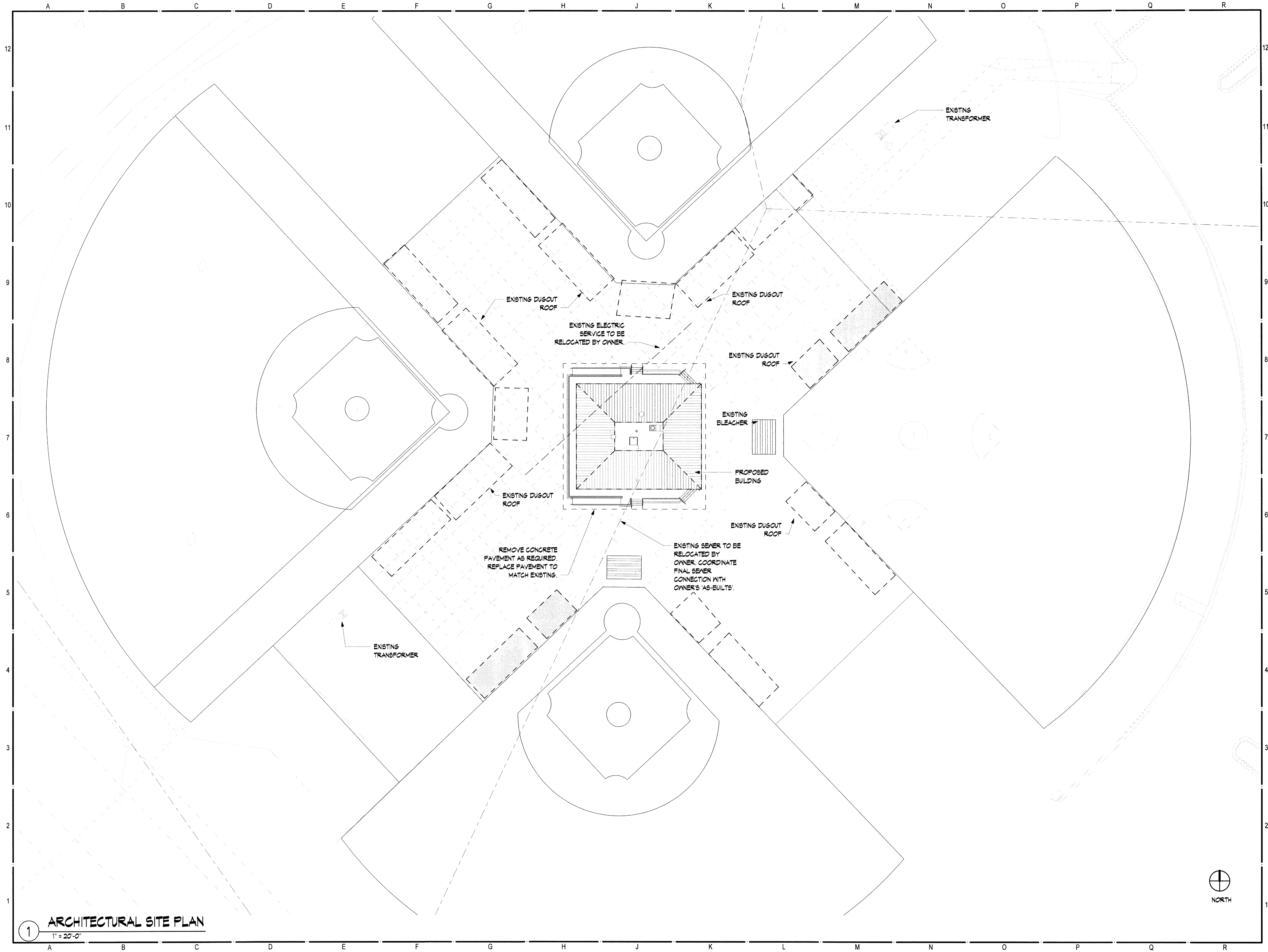
Rev.	Date	Revision Description

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Issue Date: 10/5/2017  
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Checked By:  
Sheet Title:

**EXISTING CONDITIONS**

**C100**



1 ARCHITECTURAL SITE PLAN  
1" = 20'-0"

**CONCESSION BUILDING -  
CITY OF JONESBORO**  
JONESBORO, AR

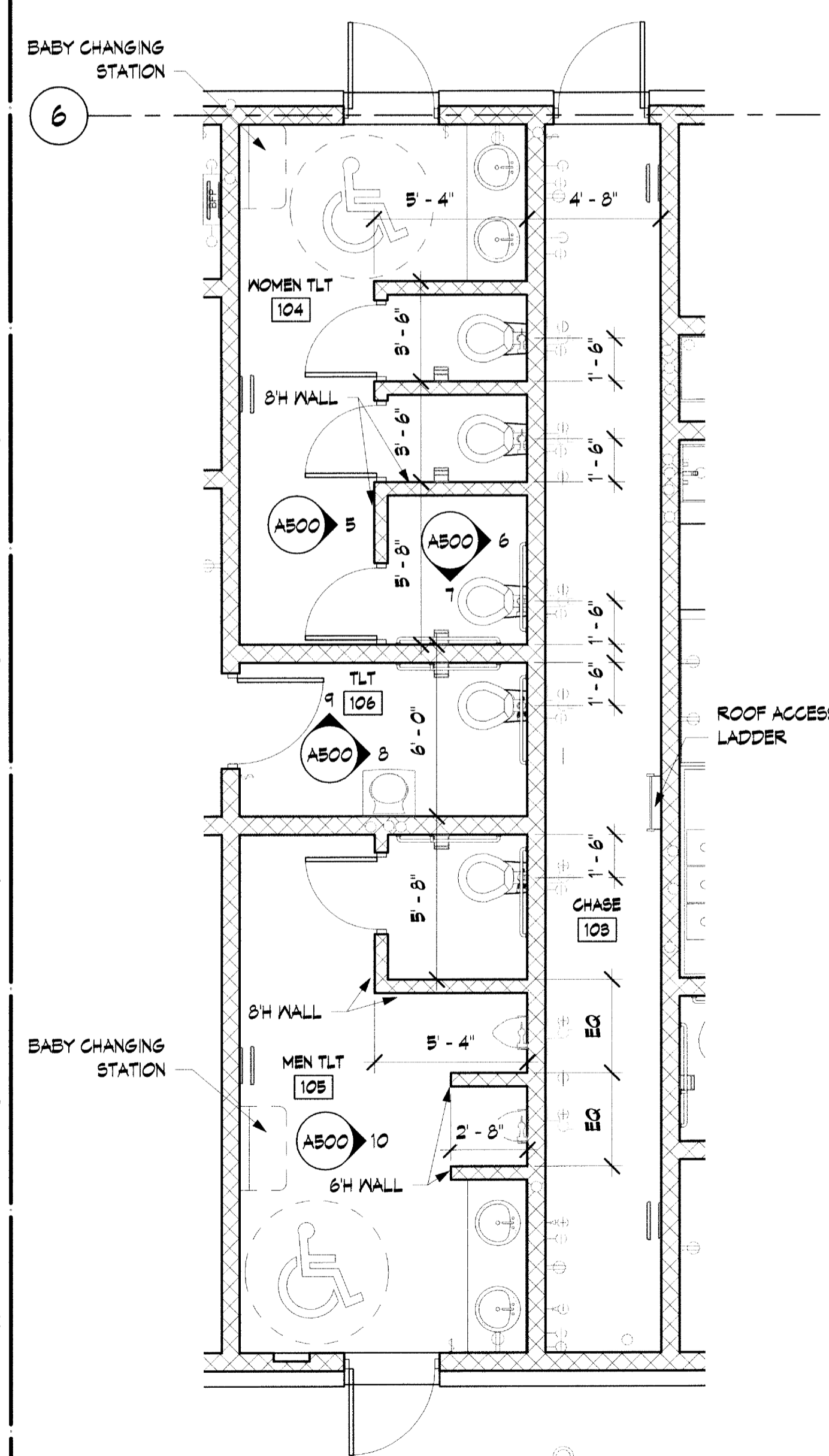
Rev.	Date	Revision Description

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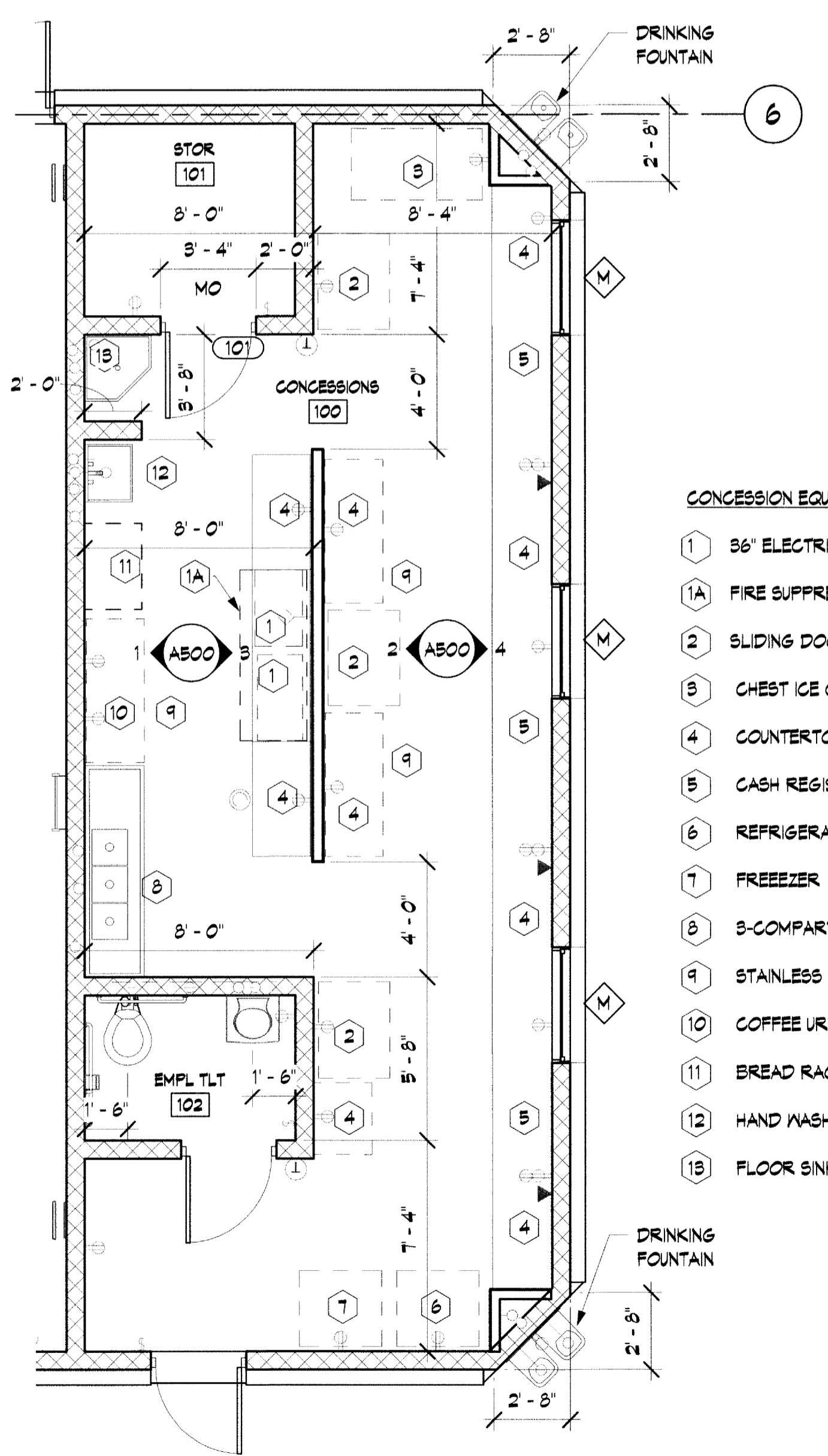
Issue Date: 10/6/2017  
Project No: F10472  
Drawn By: RP  
Checked By: JN  
Sheet Title:

**ARCHITECTURAL  
SITE PLAN**

FINISH SCHEDULE							
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
107	STORAGE	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
108	UMPIRES	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
109	ELEC	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
110	MECH	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
104	WOMEN TLT	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
106	TLT	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
105	MEN TLT	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
109	CHASE	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
102	EMPL TLT	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
101	STOR	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
100	CONCESSIONS	QUARRY TILE	QUARRY TILE	PTD/FRP	PTD PLYWOOD	10'-0"	
111	MECH	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	
112	PORCH	SEALED CONC	NONE	PTD	PTD PLYWOOD	10'-0"	

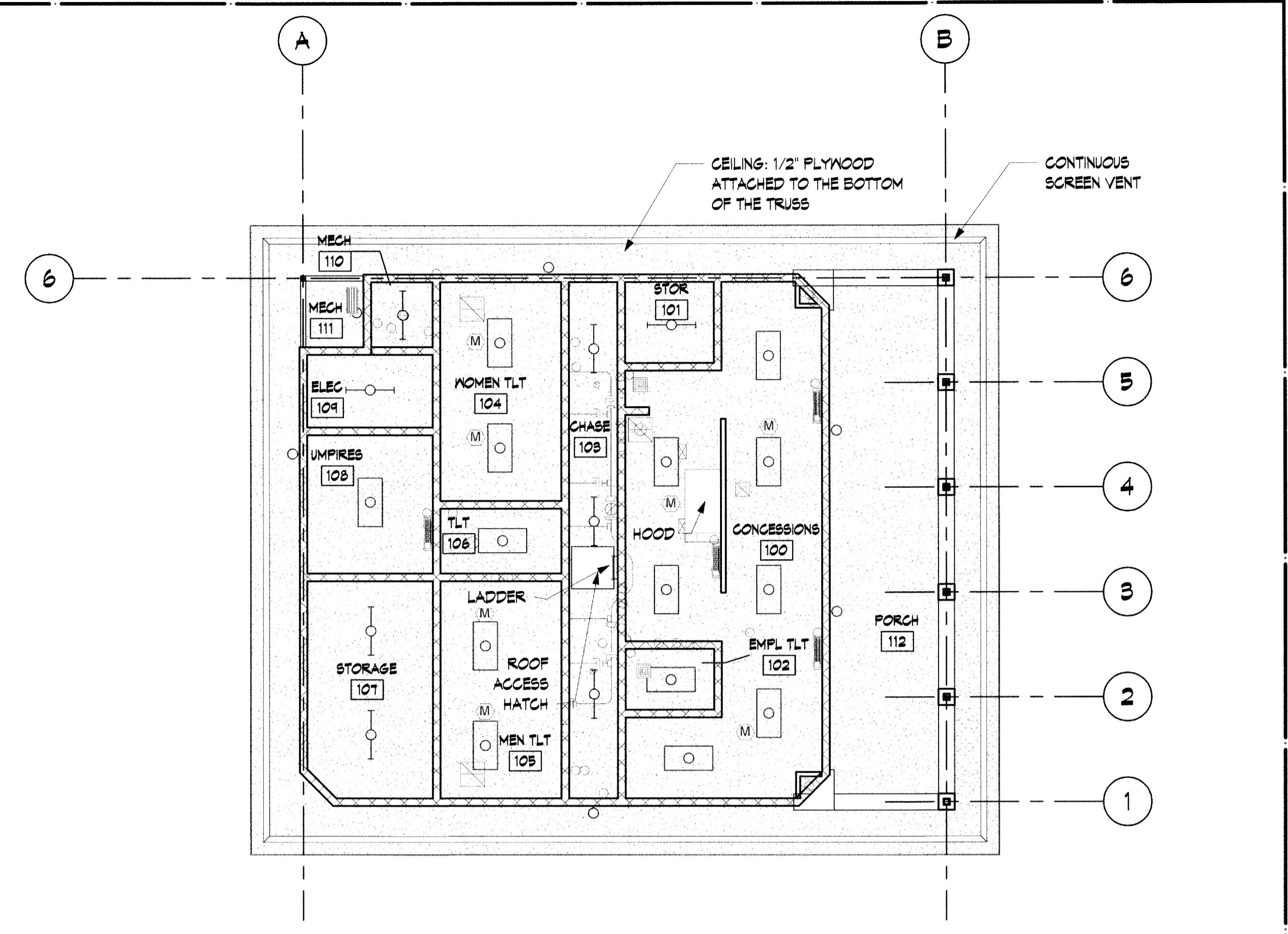


**3 ENLARGED PLAN - RESTROOMS**  
1/4" = 1'-0"

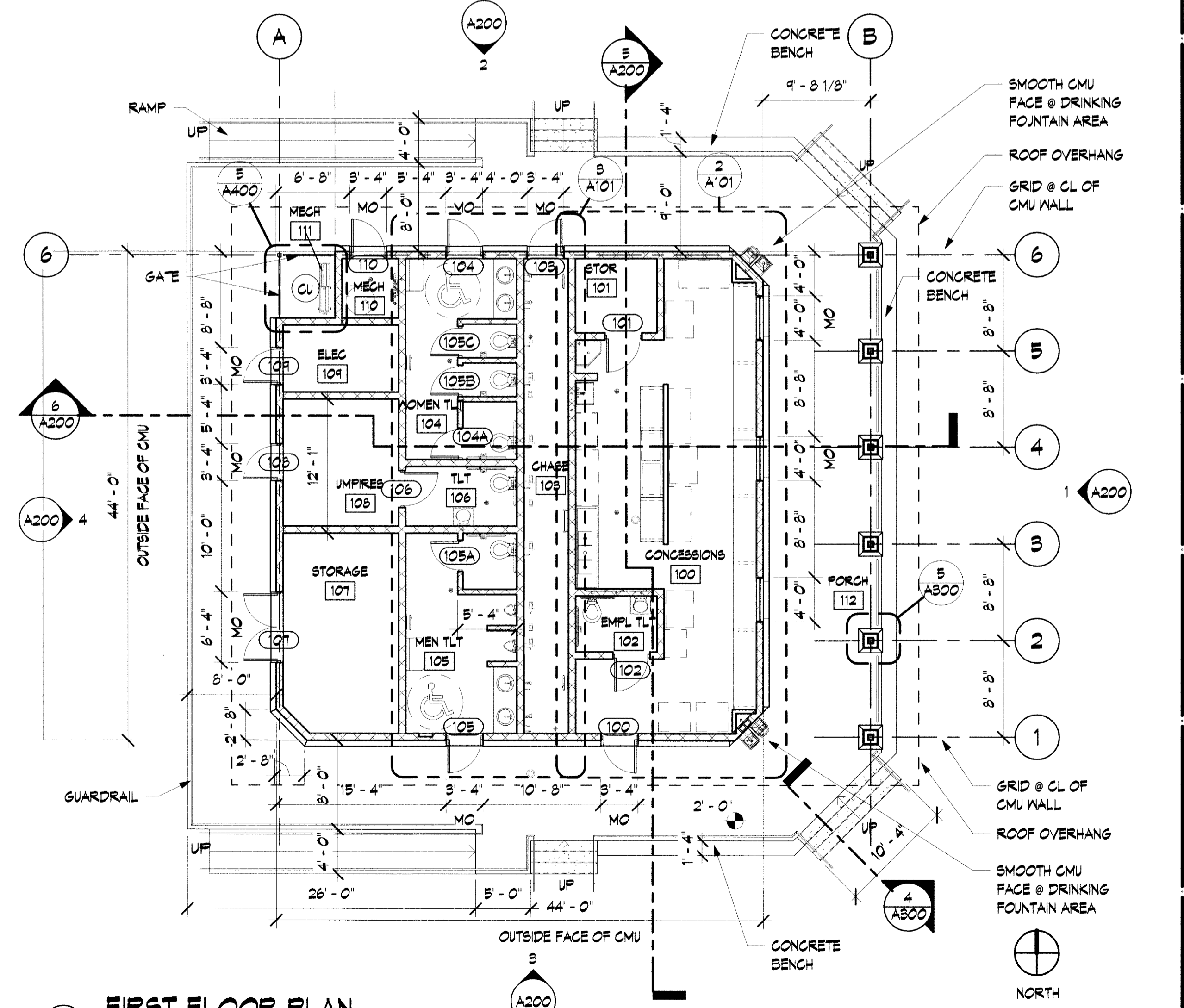


**2 ENLARGED PLAN - CONCESSIONS 100**  
1/4" = 1'-0"

- CONCESSION EQUIPMENT SCHEDULE**
- 1 36" ELECTRIC/GRIDDLE 92" Fryer
  - 1A FIRE SUPPRESSION HOOD
  - 2 SLIDING DOOR DISPLAY COOLER
  - 3 CHEST ICE CREAM FREEZER
  - 4 COUNTERTOP APPLIANCE
  - 5 CASH REGISTER
  - 6 REFRIGERATOR
  - 7 FREEZER
  - 8 3-COMPARTMENT SINK
  - 9 STAINLESS STEEL WORK TABLE
  - 10 COFFEE URN
  - 11 BREAD RACK/SHELVING
  - 12 HAND WASH SINK
  - 15 FLOOR SINK

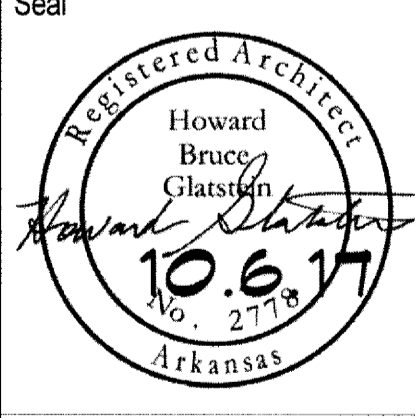


**4 FIRST FLOOR REFLECTED CEILING PLAN**  
1/8" = 1'-0"



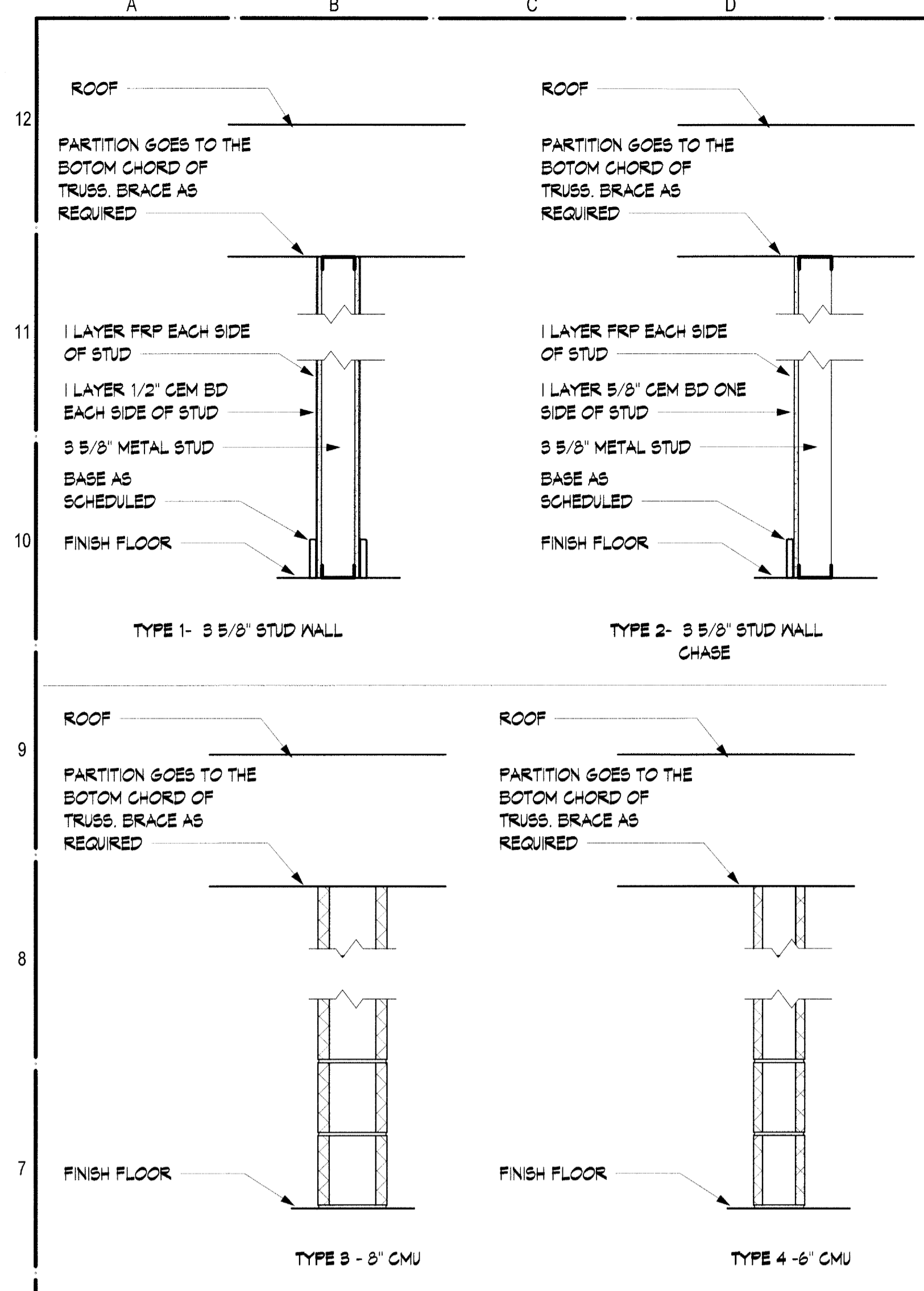
**1 FIRST FLOOR PLAN**  
1/8" = 1'-0"

Rev.	Date	Revision Description



Issue Date: 10/6/2017  
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Checked By: JN  
Sheet Title:

**FLOOR PLAN, ENLARGED PLANS, RCP**



**1 PARTITION TYPES**  
1" = 1'-0"

- HOLLOW METAL DOORS AND FRAMES:**
- DOORS:** COMMERCIAL INSULATED STEEL DOORS, PREPPED AND REINFORCED FOR HARDWARE.
    - CONTINUOUSLY WELDED EDGE CONSTRUCTION WITH NO SEAMS.
    - METALLIC-COATED STEEL SHEET, G60 A60 COATING.
    - PROVIDE EDGE CLOSURES WITH WEEPS IN BOTTOM. SEAL TOP EDGES.
    - PRIME FINISH.
  - FRAMES:** COMMERCIAL, METALLIC-COATED STEEL SHEET, G60 A60 COATING. FULL PROFILE WELDED. PRIME FINISH.
    - FRAME ANCHORS TO BE MASONRY ADJUSTABLE STRAP AND STIRRUP OR T-SHAPED TO SUIT FRAME SIZE. PROVIDE FLOOR ANCHORS. PROVIDE SILENCERS FOR ALL FRAMES.
    - FRAMES FOR TOILET STALLS SHALL BE HOSPITAL FRAMES.
  - HARDWARE:**
    - BRUSHED STAINLESS STEEL HINGES WITH NON-REMOVABLE PINS, FULL MORTISE, GRADE 1 (HEAVY WEIGHT), ANTI-FRICTION BALL-BEARING, 3 PER DOOR (EXCEPT TOILET STALL DOORS ONLY TWO PER DOOR).
    - MORTISED LATCH SETS, BRUSHED STAINLESS STEEL LEVER HANDLE WITH REMOVABLE KEY CORES.
      - CORBIN RUBSWIN ML 2000 SERIES, DIRKE (MATCH EXISTING BUILDING HARDWARE)
      - SECURITY GRADE 1
      - SURFACE MOUNTED STEEL STRIKE PROTECTION.
      - 3/4" LATCHBOLT THROWN.
      - STAINLESS STEEL STRIKE PLATES.
      - SEE HARDWARE SCHEDULE FOR FUNCTION. KEYING AS DIRECTED BY OWNER.
    - EXTERIOR DOORS SHALL HAVE:
      - FULL ALUMINUM SADDLE TYPE THRESHOLDS SET IN BED OF CAULKING.
      - WEATHER-STRIPPING: RIGID, HOUSED WITH SPONGE NEOPRENE GASKET MATERIAL.
      - SURFACE MOUNTED CLOSER, GRADE 1, REGULAR ARM, MECHANISM ENCLOSED IN COVER.
  - HARDWARE SCHEDULE:**

**EXTERIOR DOORS:**

**SET E-1 - SINGLE ENTRY DOOR**  
 3 EA. BUTT HINGES  
 1 EA. ENTRY LOCKSET  
 1 EA. CLOSER  
 1 EA. LATCH STRIKE PROTECTOR  
 1 EA. WEATHER-STRIPPING  
 1 EA. THRESHOLD

**SET E-2 - SINGLE ENTRY DOOR**  
 3 EA. BUTT HINGES  
 1 EA. PUSH / PULL PLATES  
 1 EA. CLOSER  
 1 EA. MAXIMUM SECURITY DEADBOLT  
 1 EA. KEYPED CYLINDER  
 1 EA. LATCH STRIKE PROTECTOR  
 1 EA. WEATHER-STRIPPING  
 1 EA. THRESHOLD

**SET E-3 - SINGLE ENTRY DOOR**  
 3 EA. BUTT HINGES  
 1 EA. STOREROOM LOCKSET  
 1 EA. CLOSER  
 1 EA. LATCH STRIKE PROTECTOR  
 1 EA. WEATHER-STRIPPING  
 1 EA. THRESHOLD

**SET E-4 - DOUBLE STORAGE ROOM DOOR**  
 6 EA. BUTT HINGES  
 1 EA. STOREROOM LOCKSET  
 1 EA. CLOSER  
 2 EA. MANUAL FLUSH BOLTS  
 1 EA. STEEL ASTRAGAL  
 1 EA. WEATHER-STRIPPING  
 1 EA. THRESHOLD  
 1 EA. PULLDOWN DOOR STOP

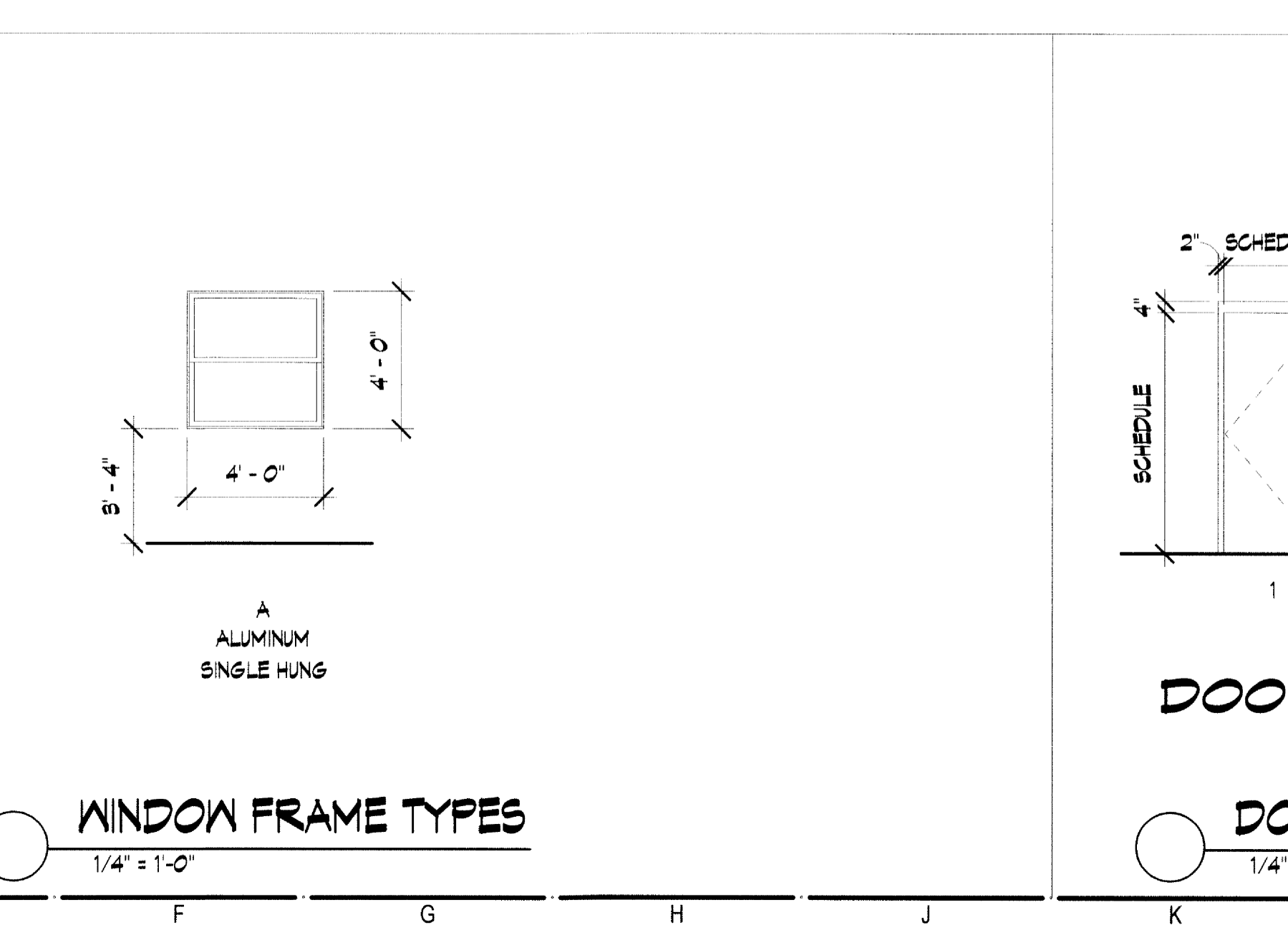
**INTERIOR DOORS:**

**SET T-1 - SINGLE TOILET STALL DOOR**  
 2 EA. BUTT HINGES (ONE HINGE SPRING LOADED)  
 1 EA. PRIVACY LOCKSET

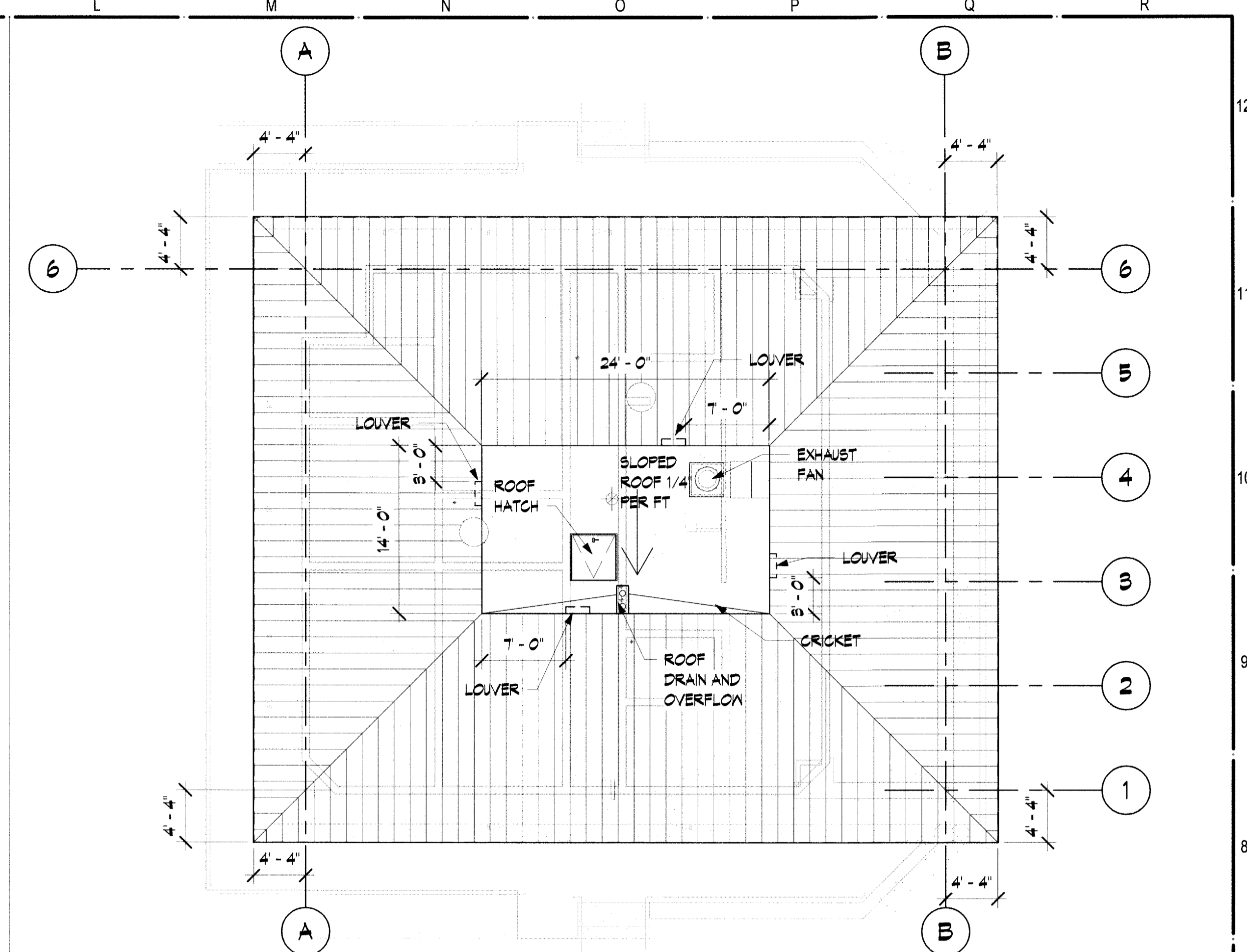
**SET S-1 - SINGLE STORAGE ROOM DOOR**  
 3 EA. BUTT HINGES  
 1 EA. STOREROOM LOCKSET

**STEEL GATES:**

    - PROVIDE STEEL GATES (FIXED PANEL AND HINGED PANELS) WITH LOCKING HARDWARE. SEE DETAILS. PRIME AND PAINT.

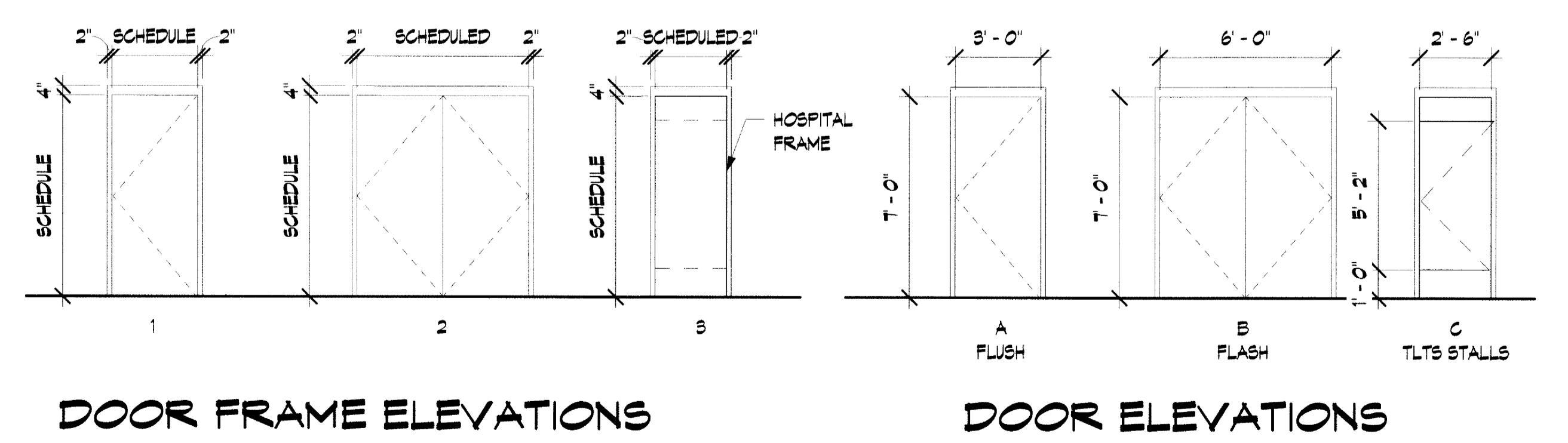


**WINDOW FRAME TYPES**  
1/4" = 1'-0"



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

DOOR SCHEDULE										
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	DOOR ELEV.	FRAME MATERIAL	FRAME ELEV.	HARDWARE SET	COMMENTS
110	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
104	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
103	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
100	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
105	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
108	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	E1	
109	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	ES	
107	6'-0"	T-0"	1 3/4"	HM	PTD	B	HM	2	E4	
105A	2'-6"	T-0"	1 3/4"	HM	PTD	C	HM	3	T1	STALL
104A	2'-6"	5'-2"	1 3/4"	HM	PTD	C	HM	3	T1	STALL
106	3'-0"	5'-2"	1 3/4"	HM	PTD	A	HM	1	T1	
105B	2'-6"	T-0"	1 3/4"	HM	PTD	C	HM	3	T1	STALL
105C	2'-6"	5'-2"	1 3/4"	HM	PTD	C	HM	3	T1	STALL
102	3'-0"	5'-2"	1 3/4"	HM	PTD	A	HM	1	E1	
101	3'-0"	T-0"	1 3/4"	HM	PTD	A	HM	1	S1	
111	4'-10"	9'-10"	2"	STEEL	PTD	SEE 2-A400	STEEL	SEE 2-400		FIXED GATE
112	3'-2"	9'-10"	2"	STEEL	PTD	SEE 1-A400	STEEL	SEE 1-400		GATE



**DOOR FRAME ELEVATIONS**      **DOOR ELEVATIONS**  
1/4" = 1'-0"

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**CONCESSION BUILDING - CITY OF JONESBORO**  
JONESBORO, AR

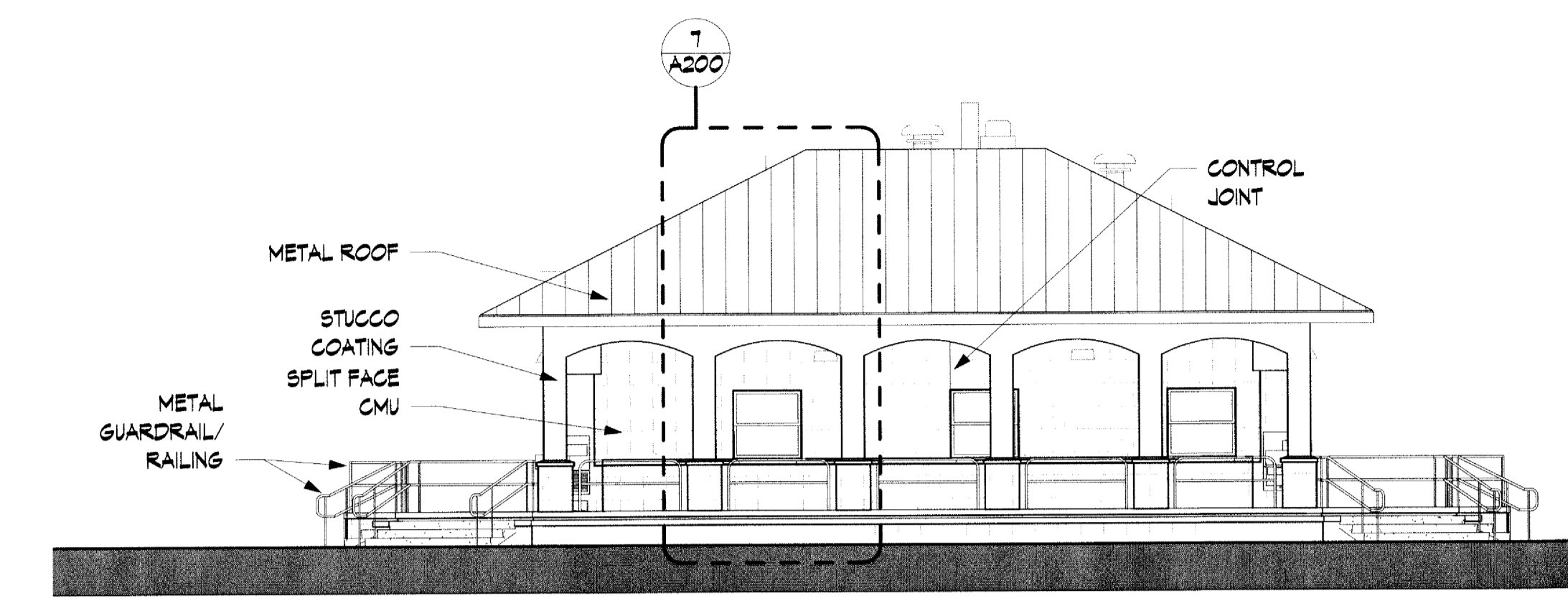
Rev.	Date	Description

Seal: Registered Architect, Howard Bruce Glatstein, No. 2778, Arkansas, 10.6.17

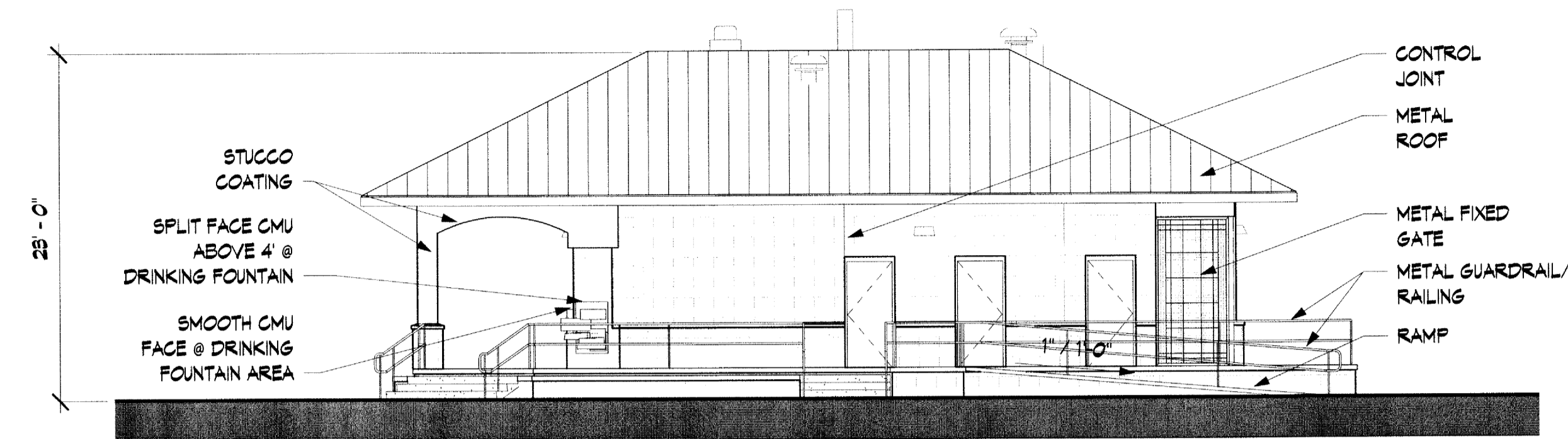
Issue Date: 10/6/2017  
Project No: F10472  
Drawn By: RP  
Checked By: JN  
Sheet Title:

**ROOF PLAN, DOOR & WINDOWS ELEVATIONS, SCHEDULES**

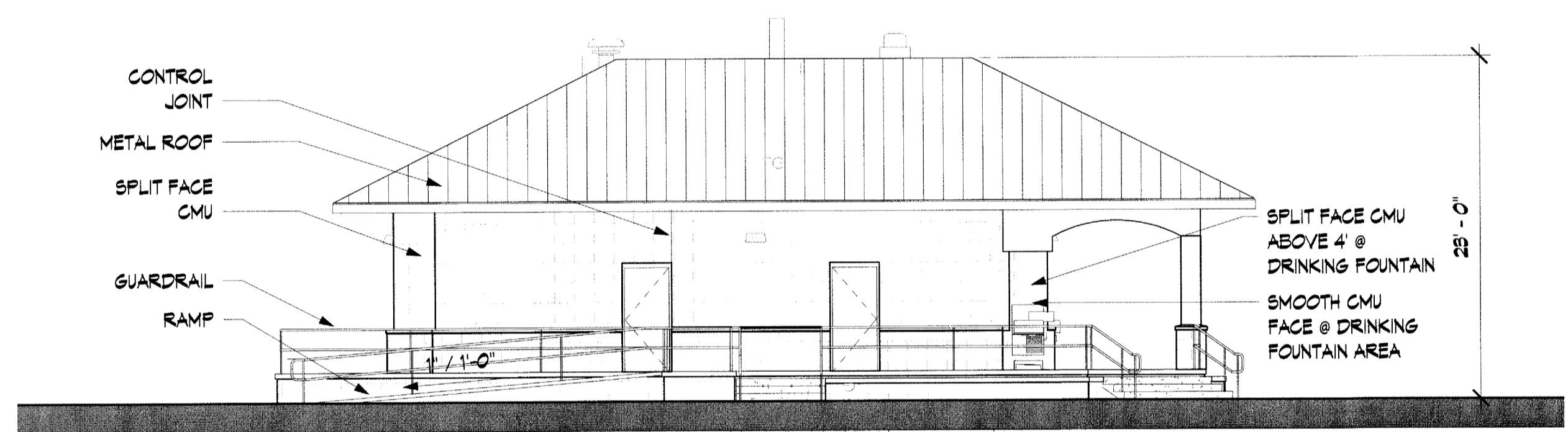
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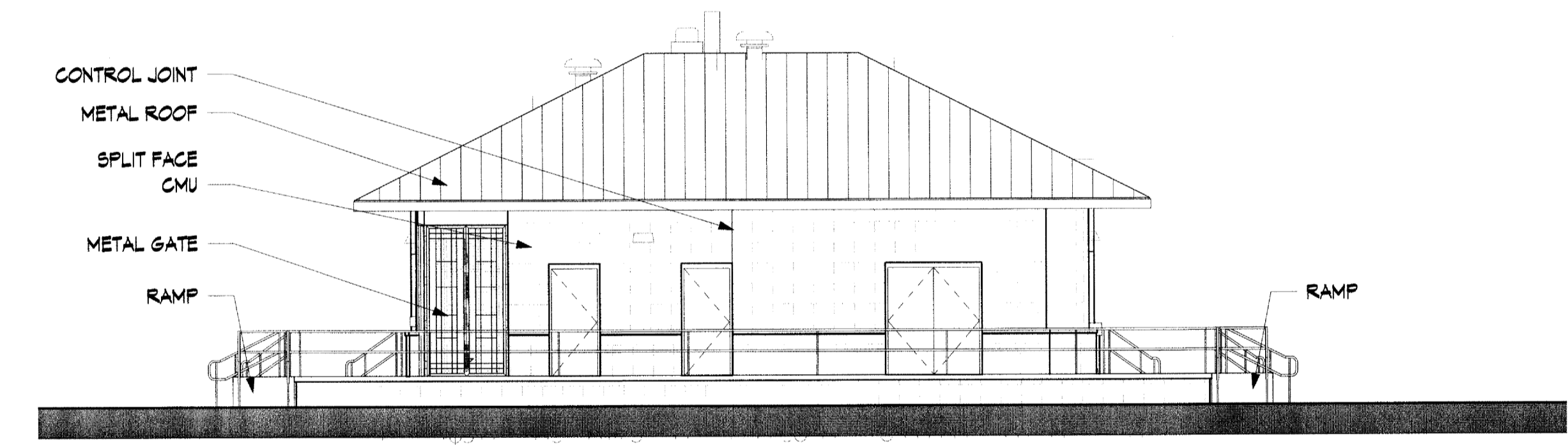
**1 BUILDING ELEVATION - EAST ELEVATION**  
1/8" = 1'-0"



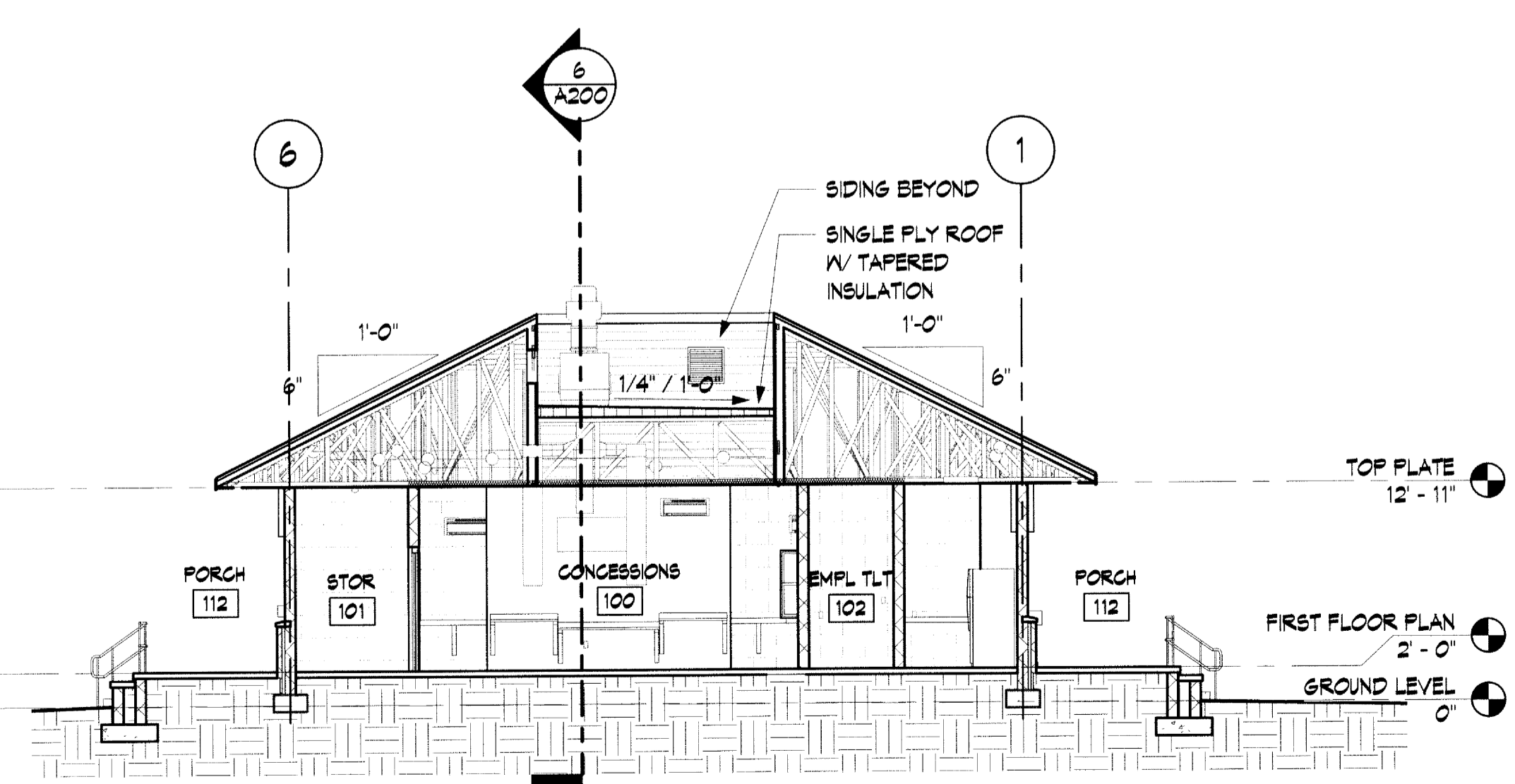
**2 BUILDING ELEVATION - NORTH ELEVATION**  
1/8" = 1'-0"



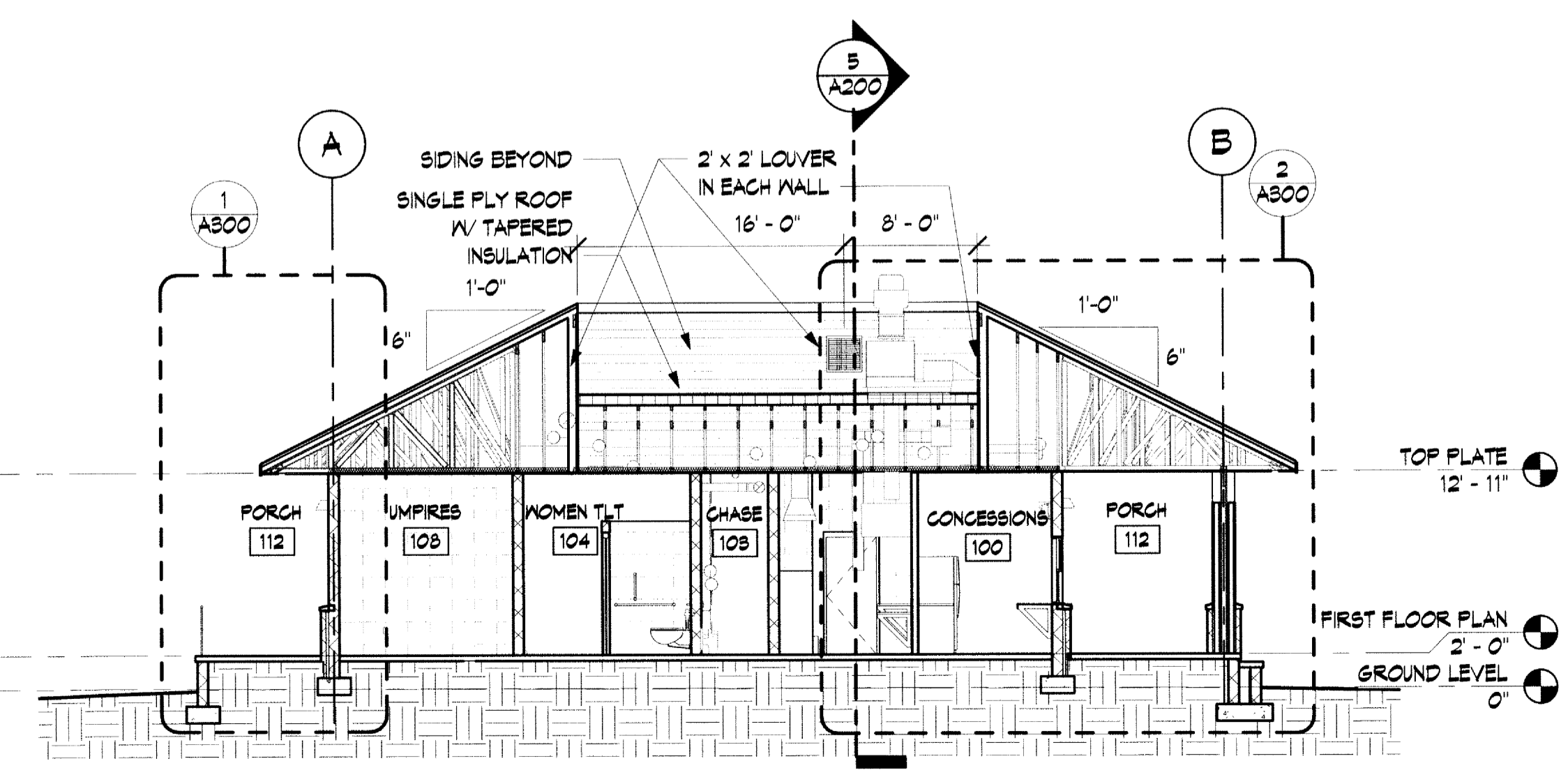
**3 BUILDING ELEVATION - SOUTH ELEVATION**  
1/8" = 1'-0"



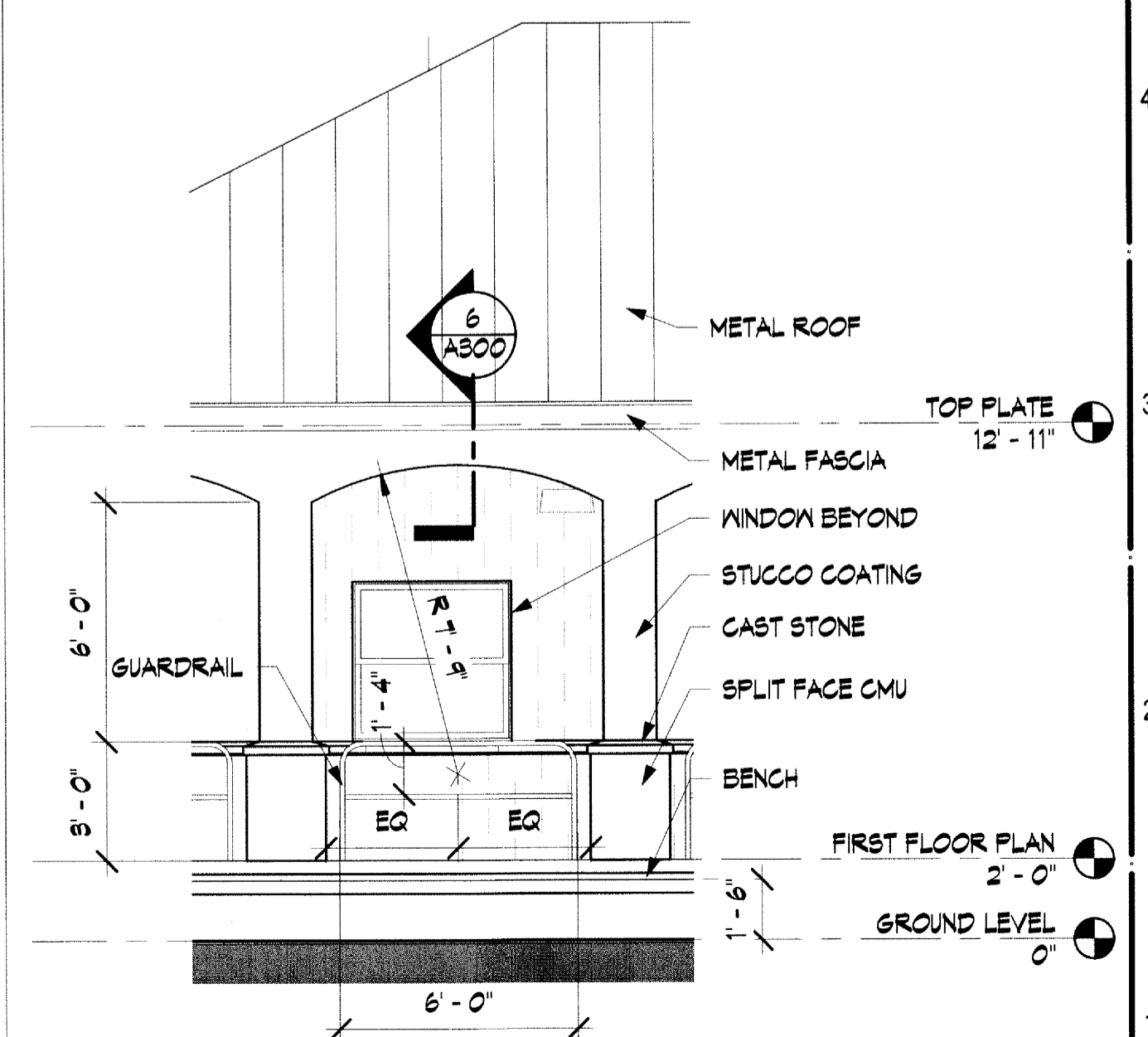
**4 BUILDING ELEVATION - WEST ELEVATION**  
1/8" = 1'-0"



**5 BUILDING SECTION - NORTH/SOUTH**  
1/8" = 1'-0"



**6 BUILDING SECTION - EAST/WEST**  
1/8" = 1'-0"



**7 ENLARG. BLDG ELEVATION**  
1/4" = 1'-0"

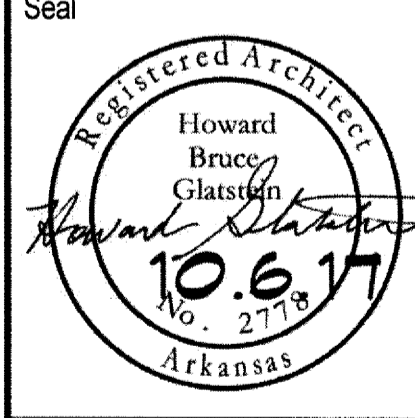
Rev.	Date	Revision Description

Seal

Issue Date: 10/6/2017  
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Drawn By: RP  
Checked By: JN  
Sheet Title:  
**BUILDING ELEVATIONS & BUILDING SECTIONS**  
**A200**

**CONCESSION BUILDING -  
CITY OF JONESBORO**  
JONESBORO, AR

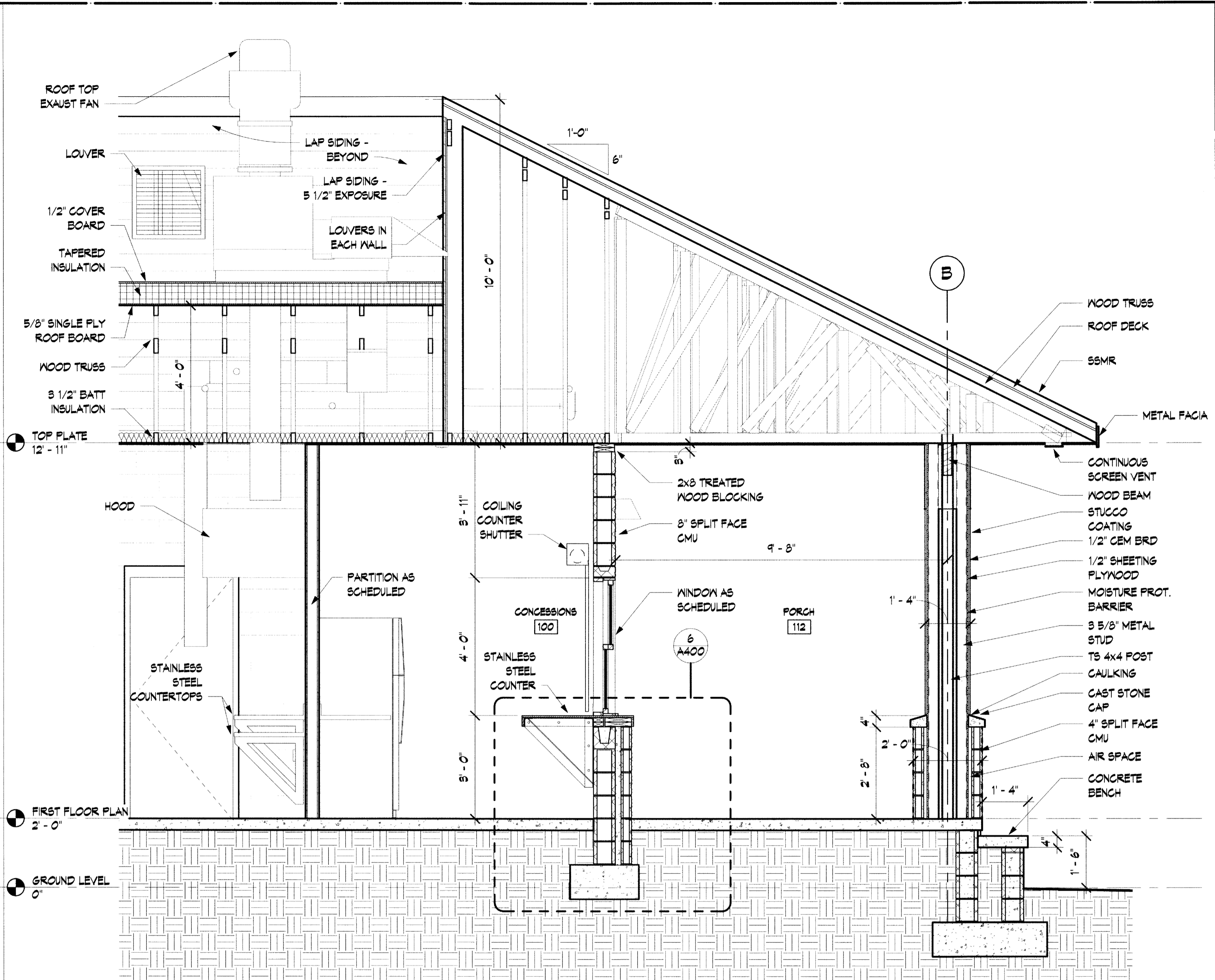
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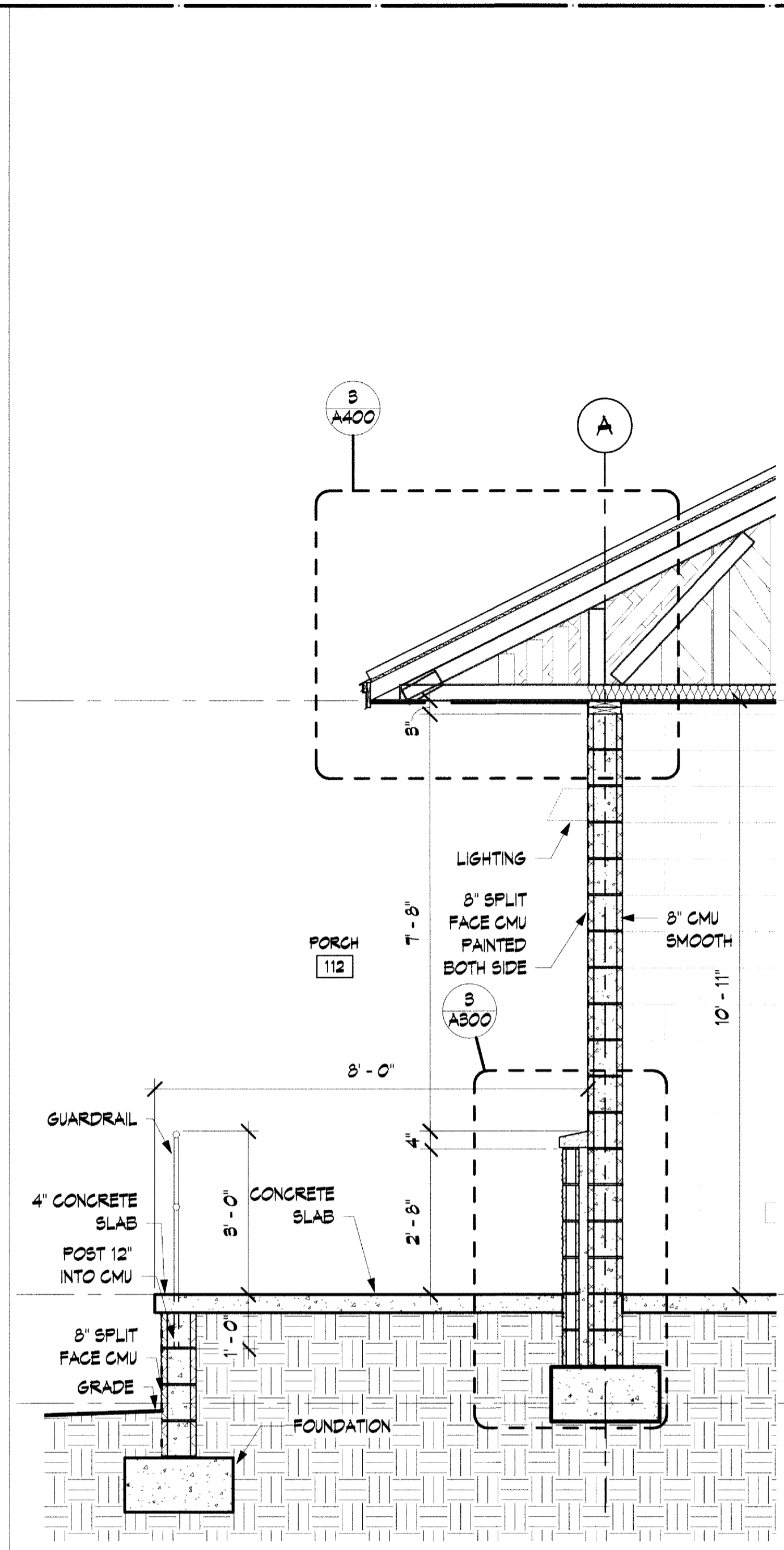
Issue Date: 10/6/2017  
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Drawn By: RP  
Checked By: JN  
Sheet Title:

**WALL SECTION & DETAILS**

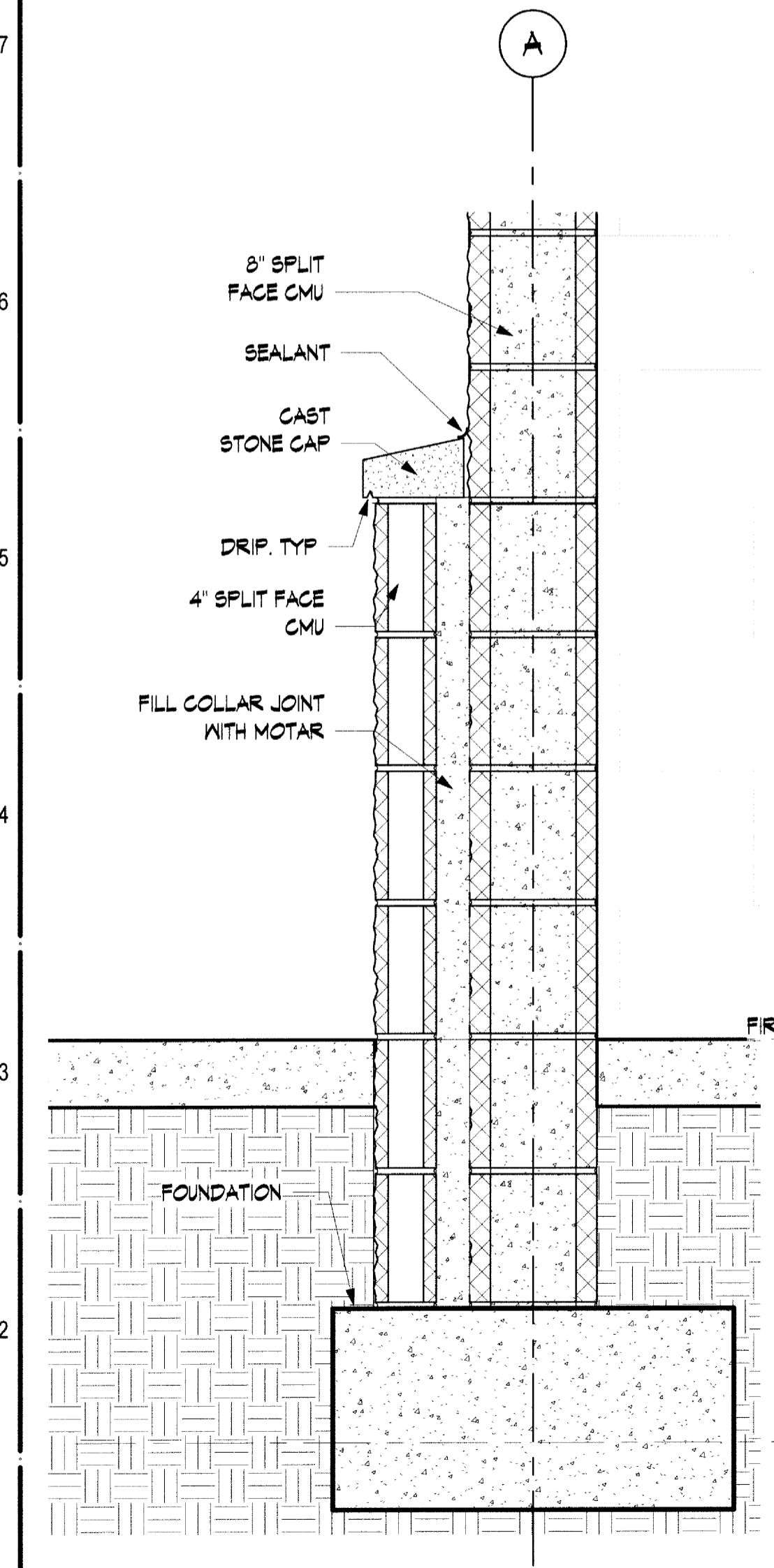
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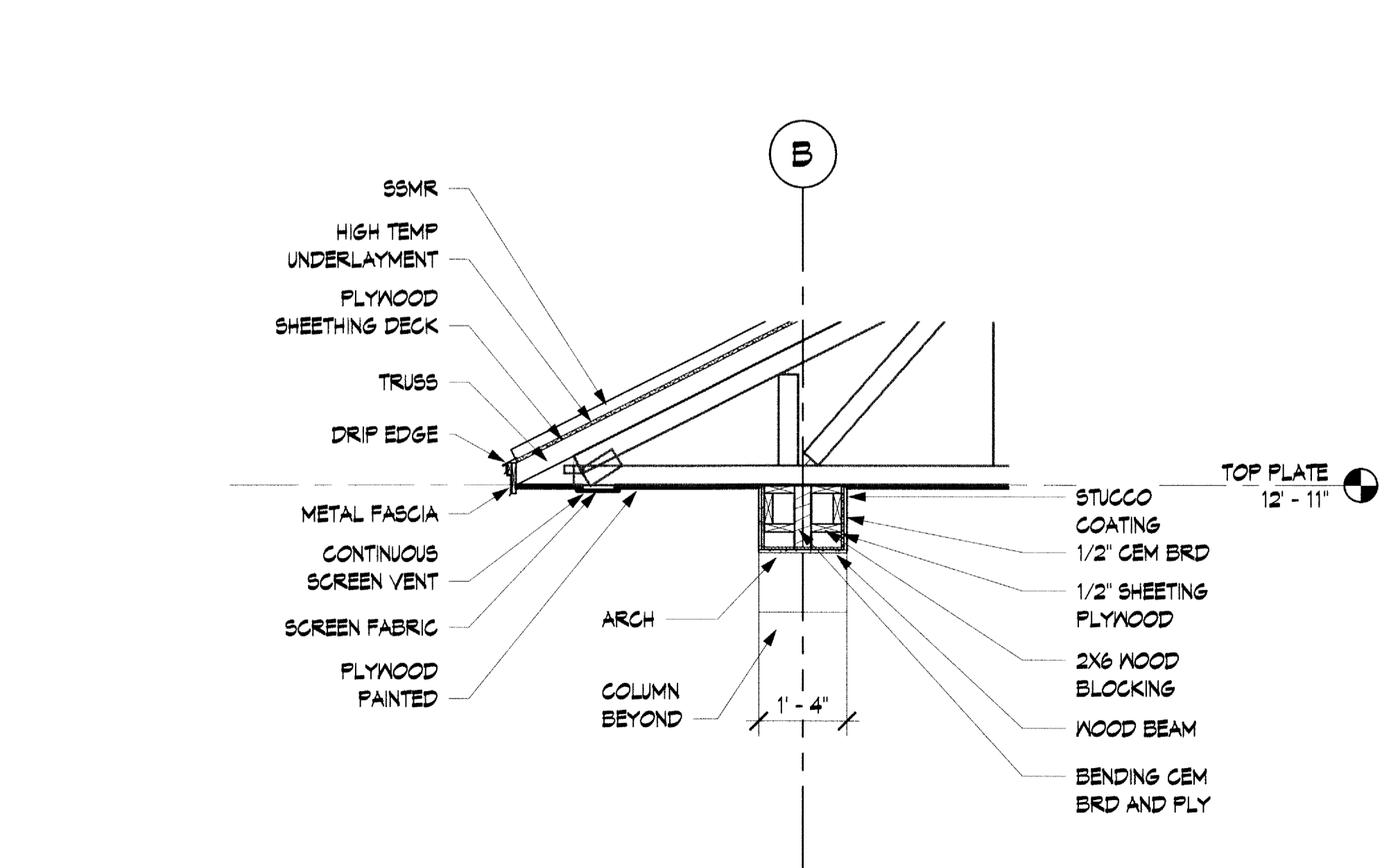
**2 WALL SECTION - EAST**  
1/2" = 1'-0"



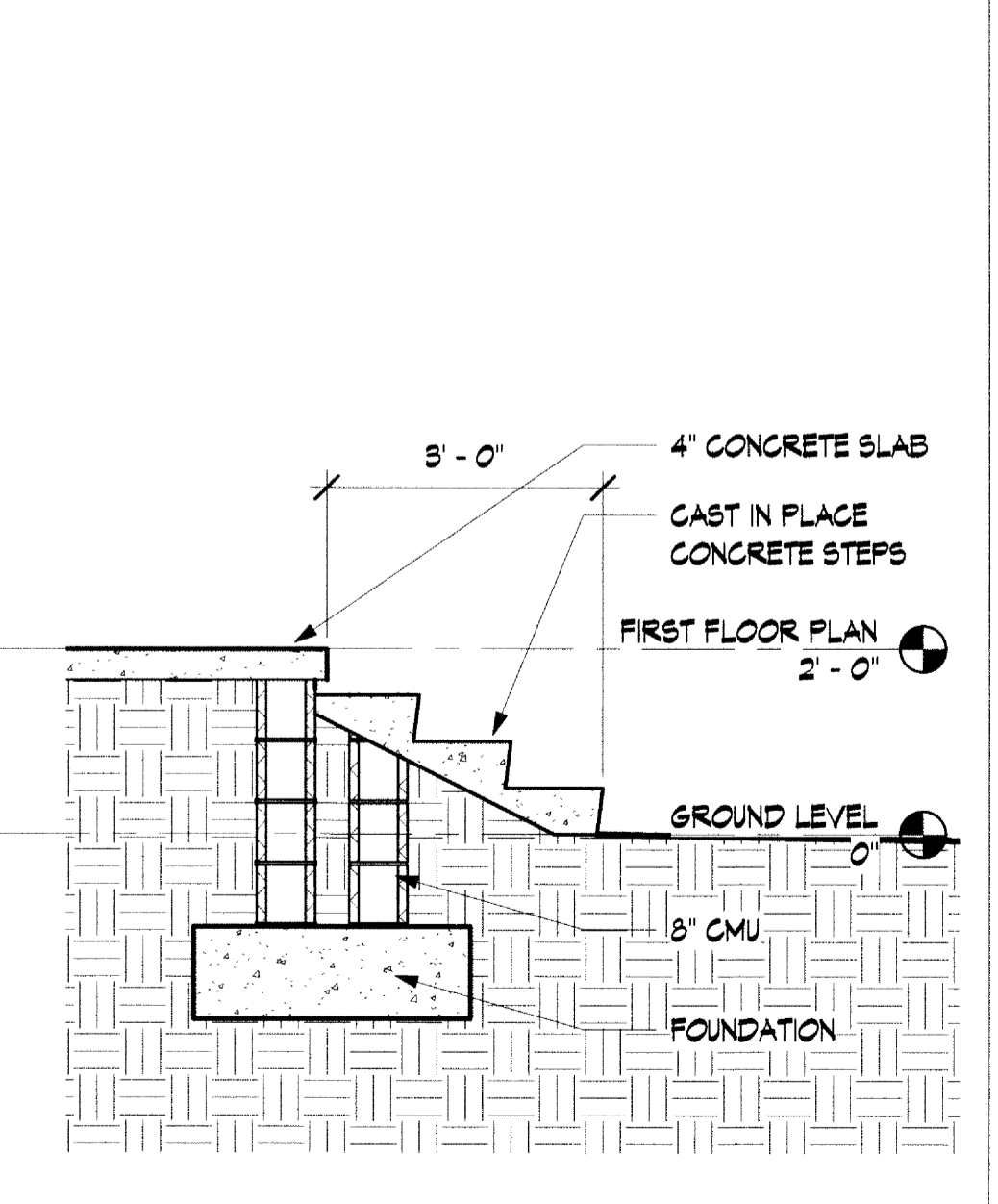
**1 WALL SECTION - WEST**  
1/2" = 1'-0"



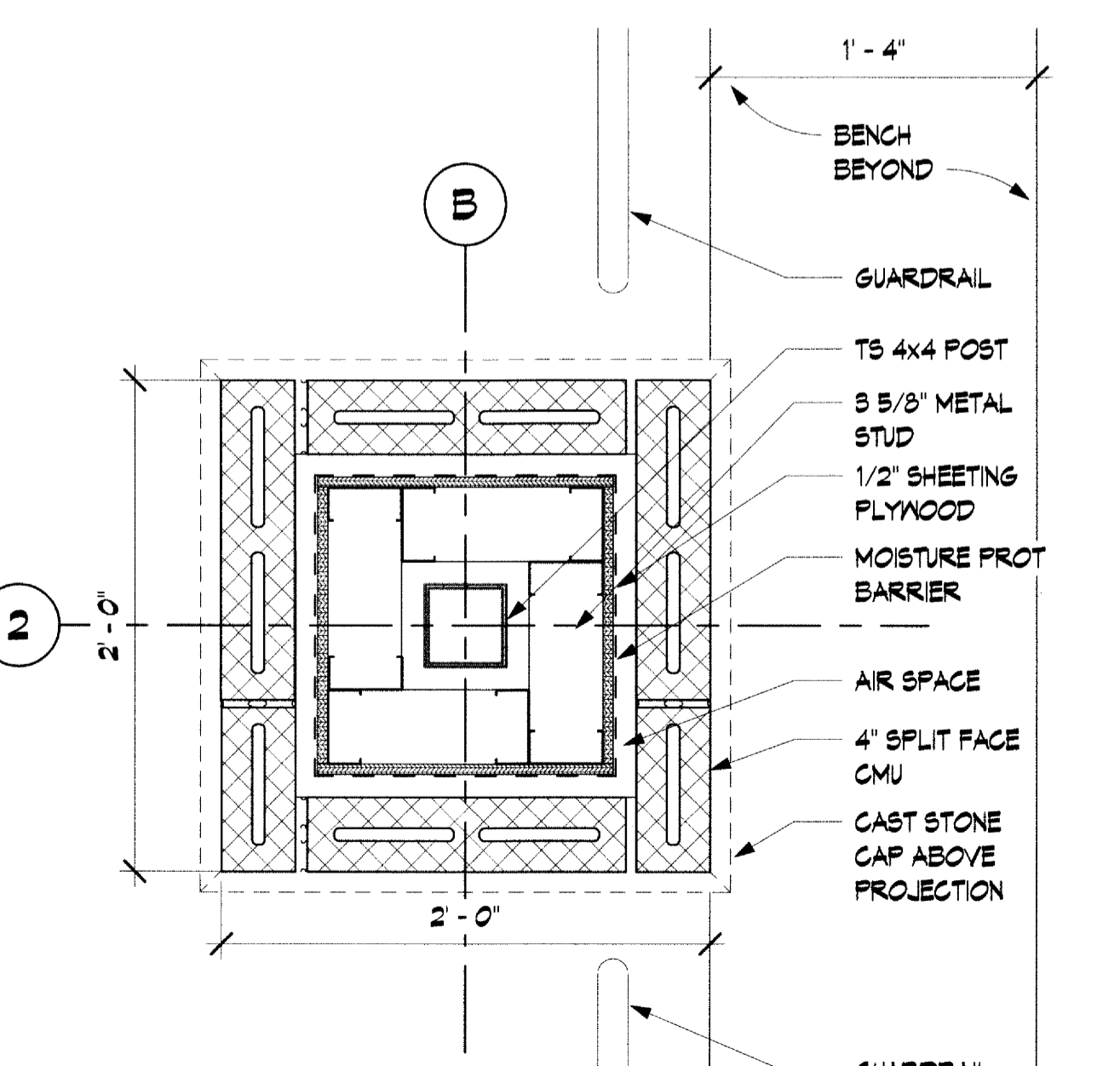
**3 DETAIL @ CAST STONE CAP**  
1 1/2" = 1'-0"



**6 DETAIL @ ARCHES**  
1/2" = 1'-0"



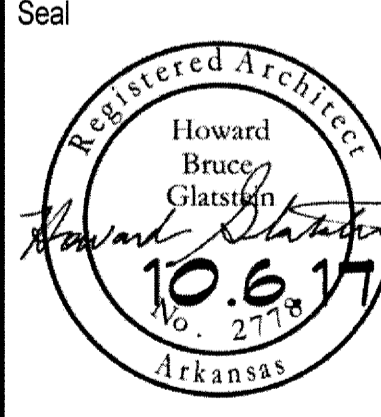
**4 DETAIL @ STEPS**  
1/2" = 1'-0"



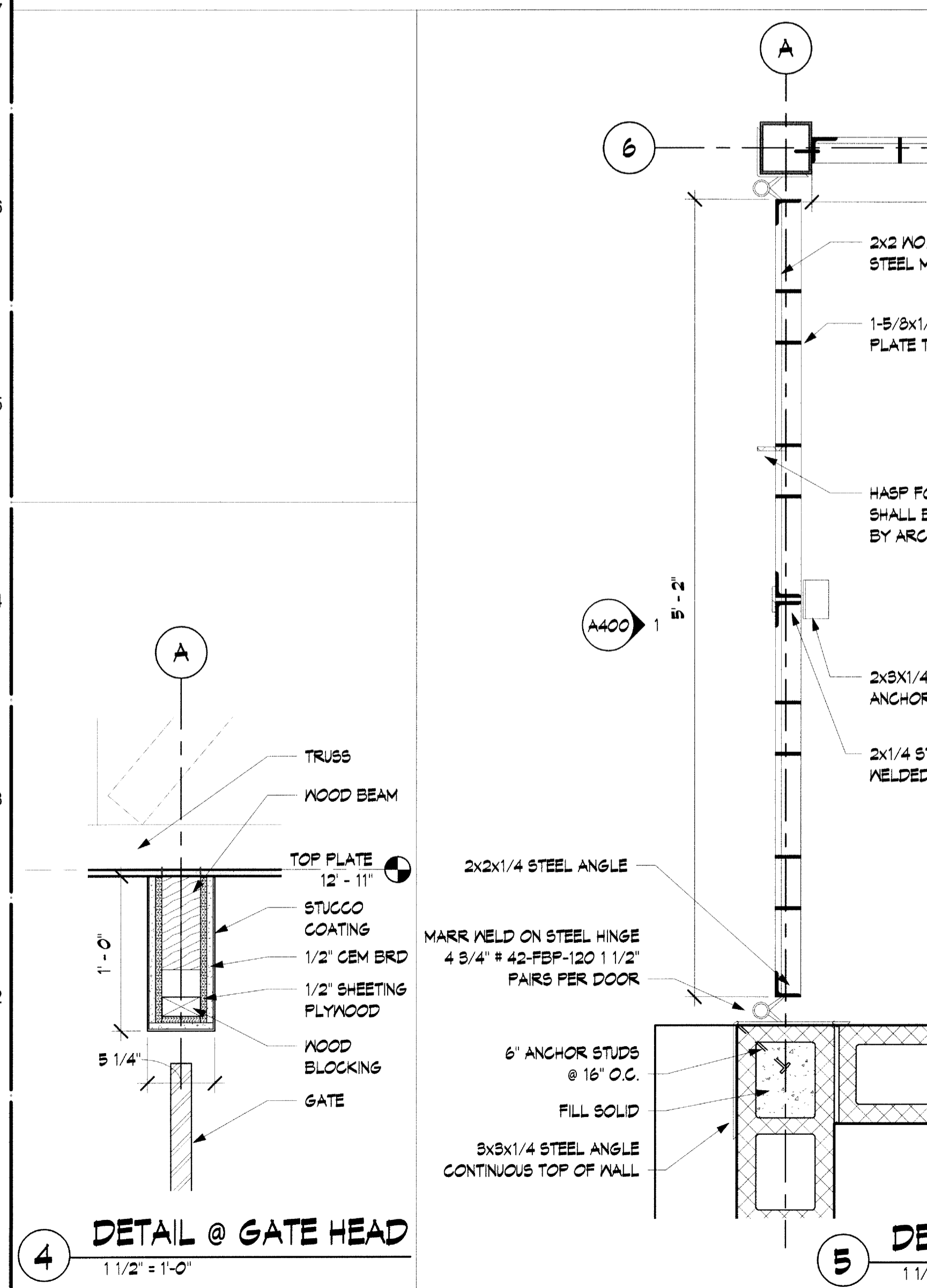
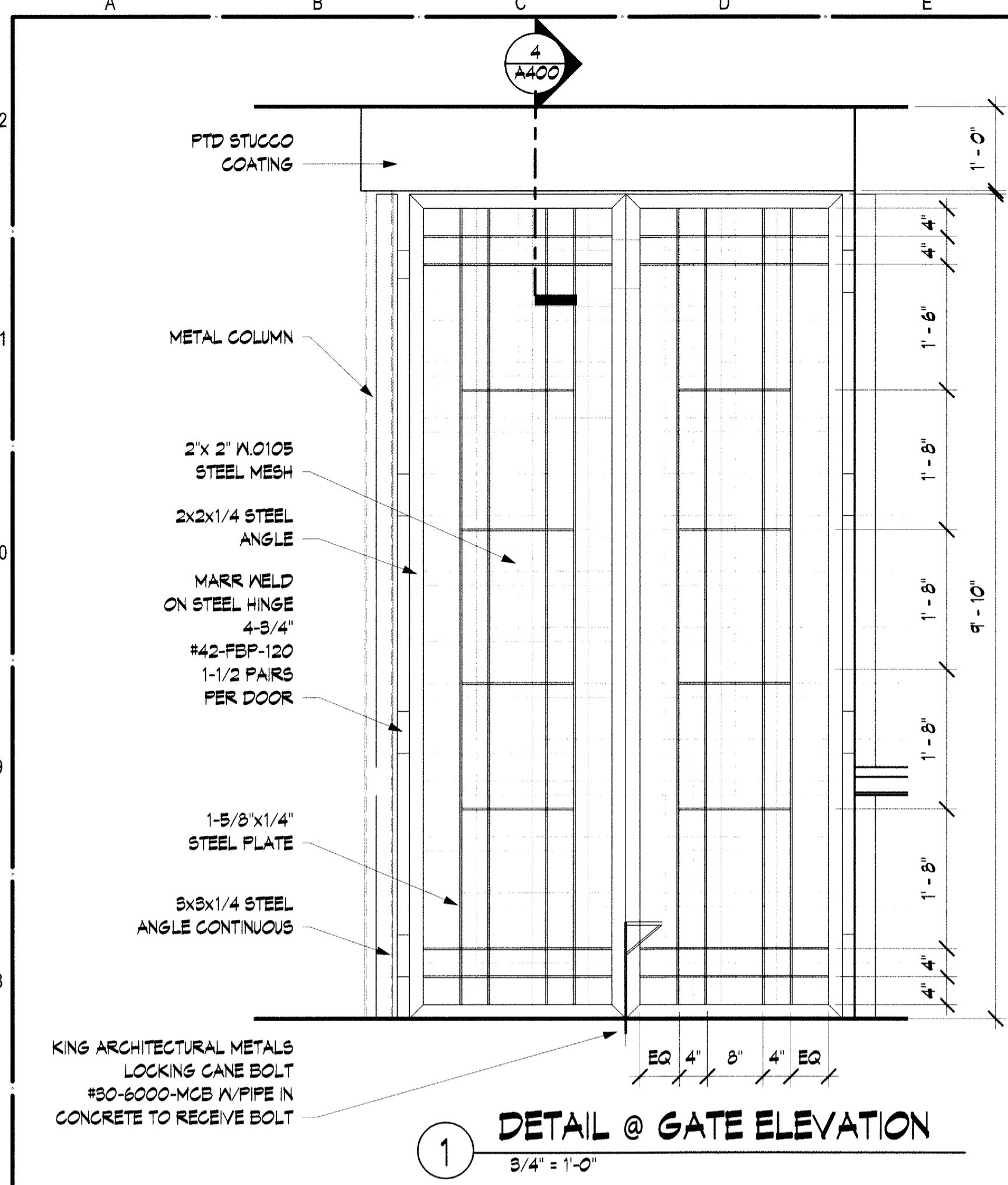
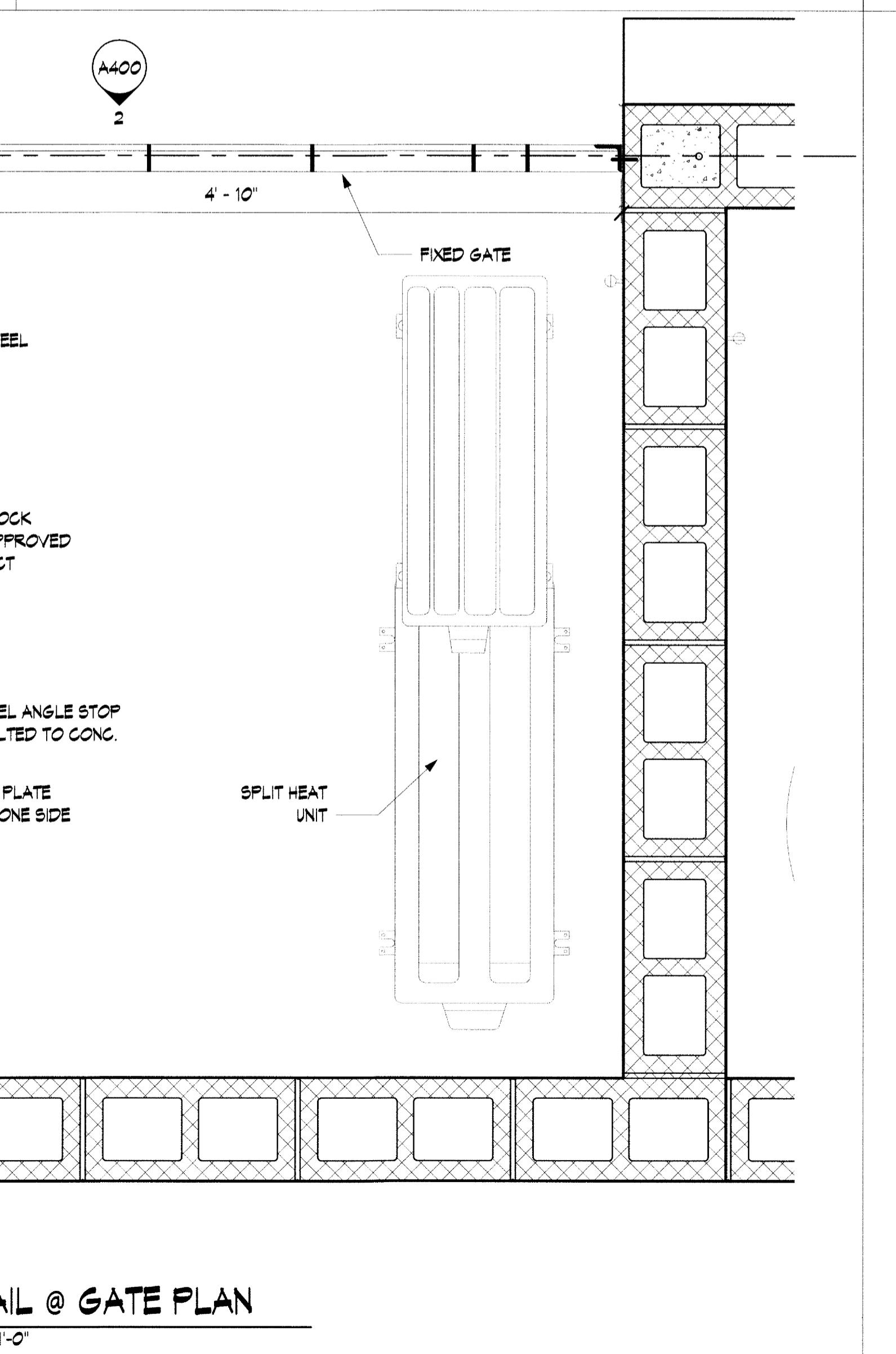
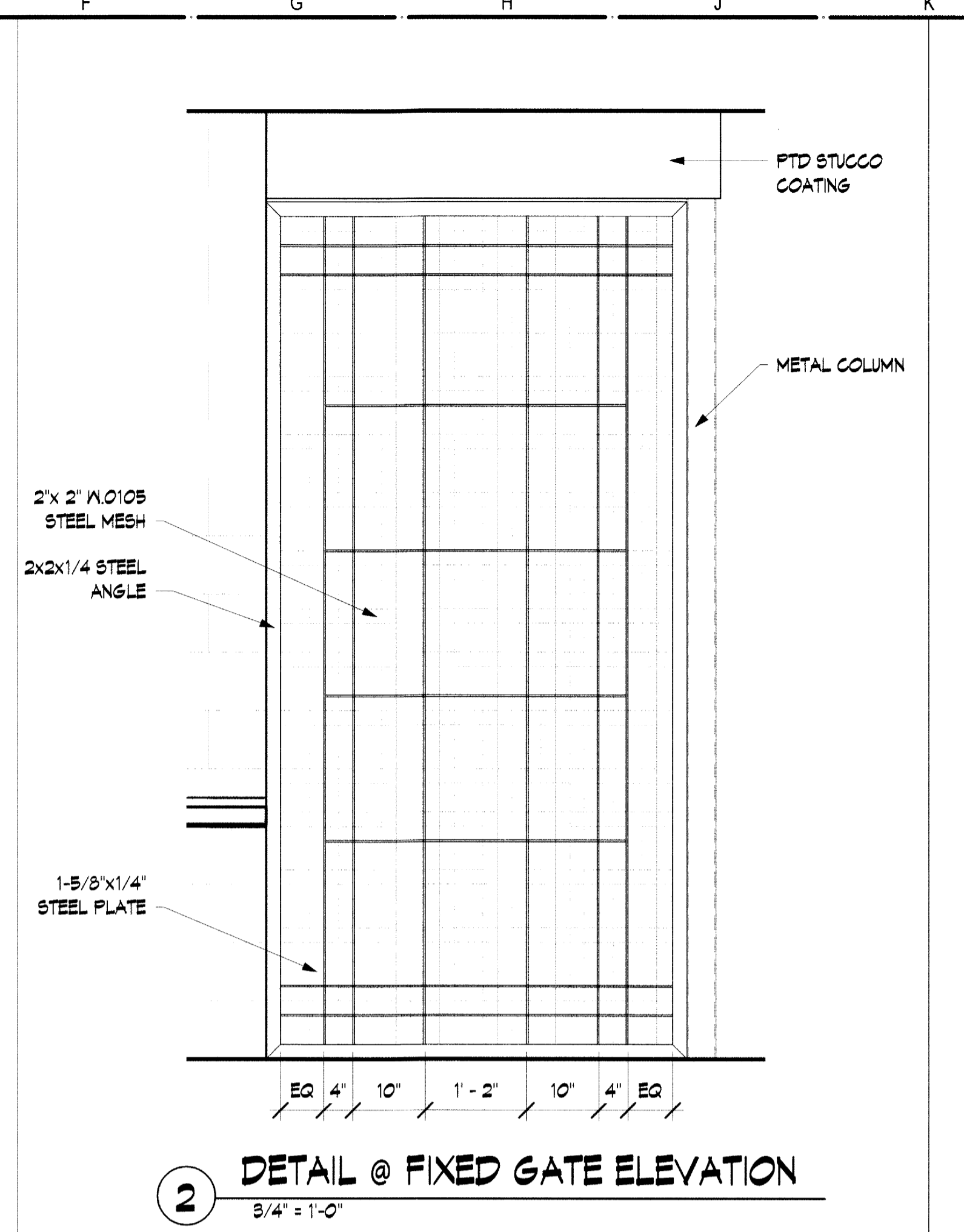
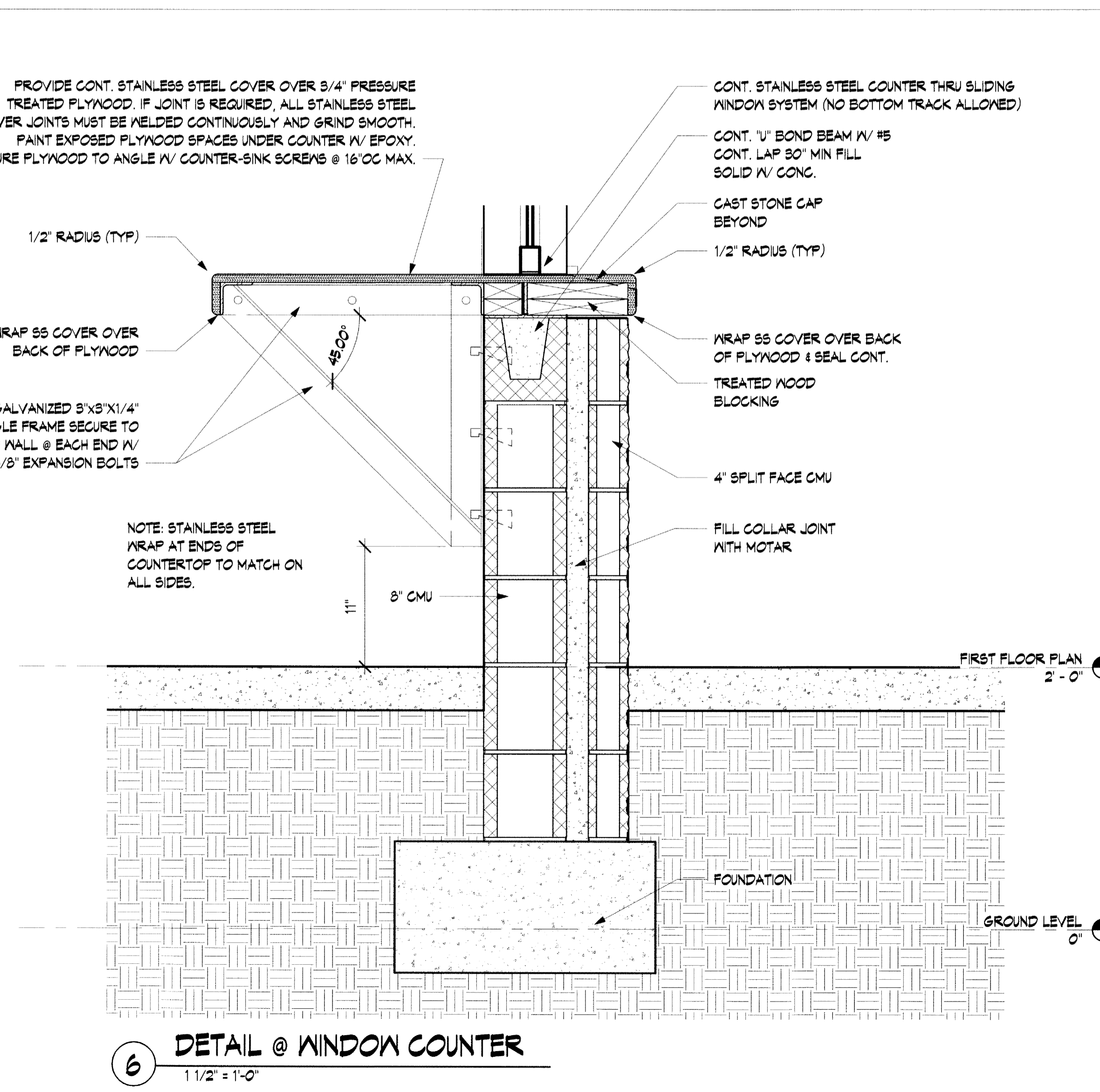
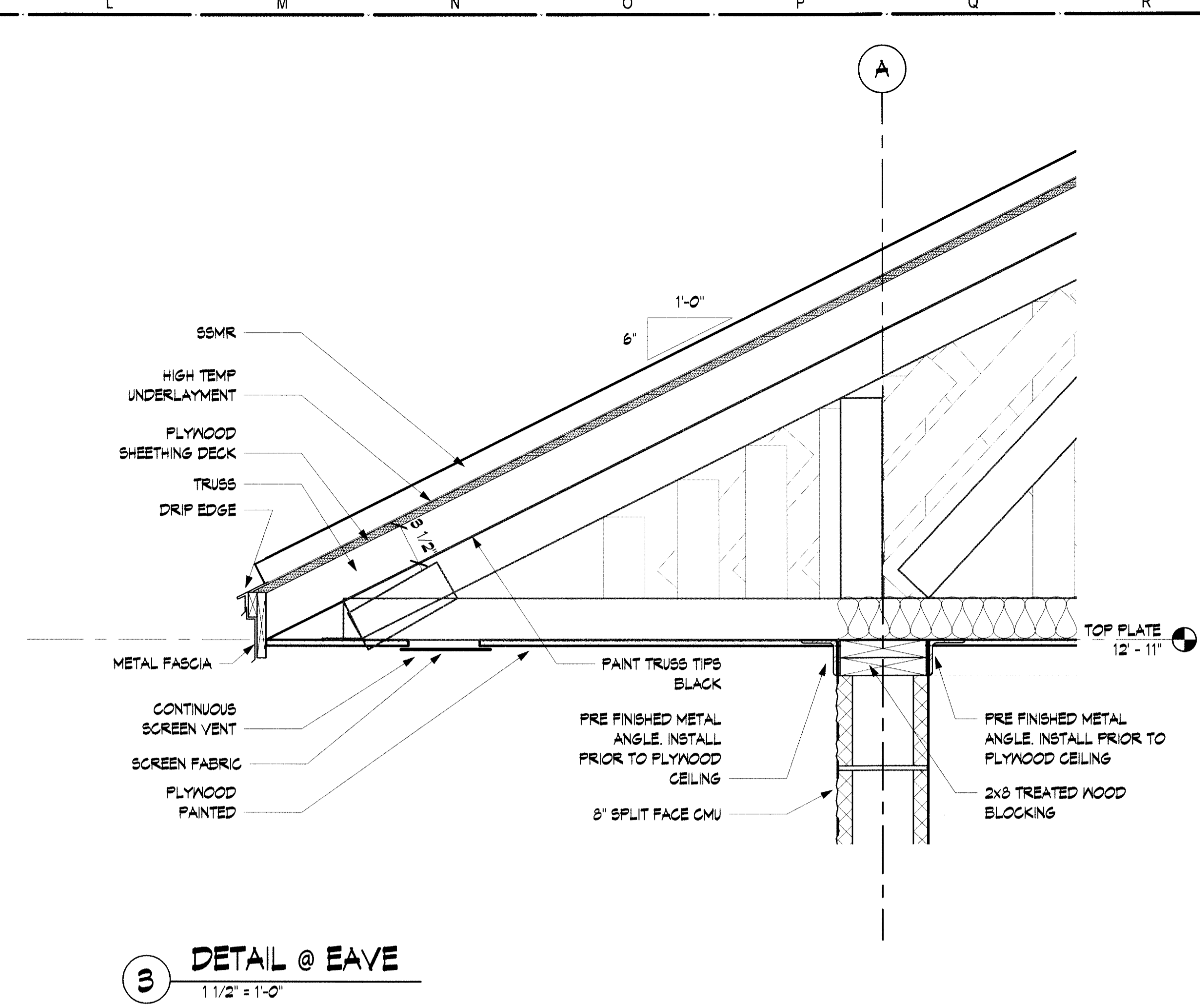
**5 DETAIL @ COLUMN**  
1 1/2" = 1'-0"

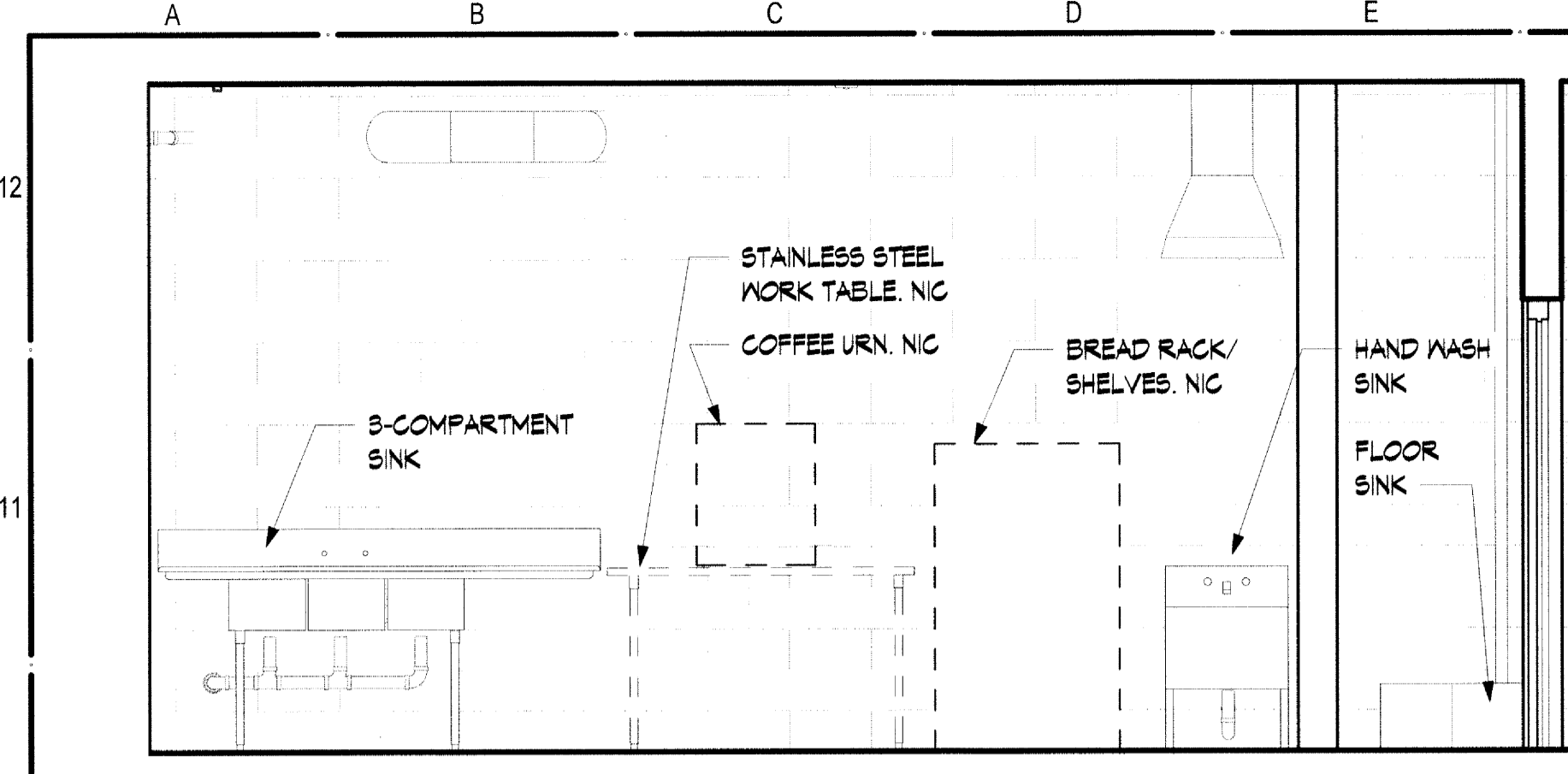


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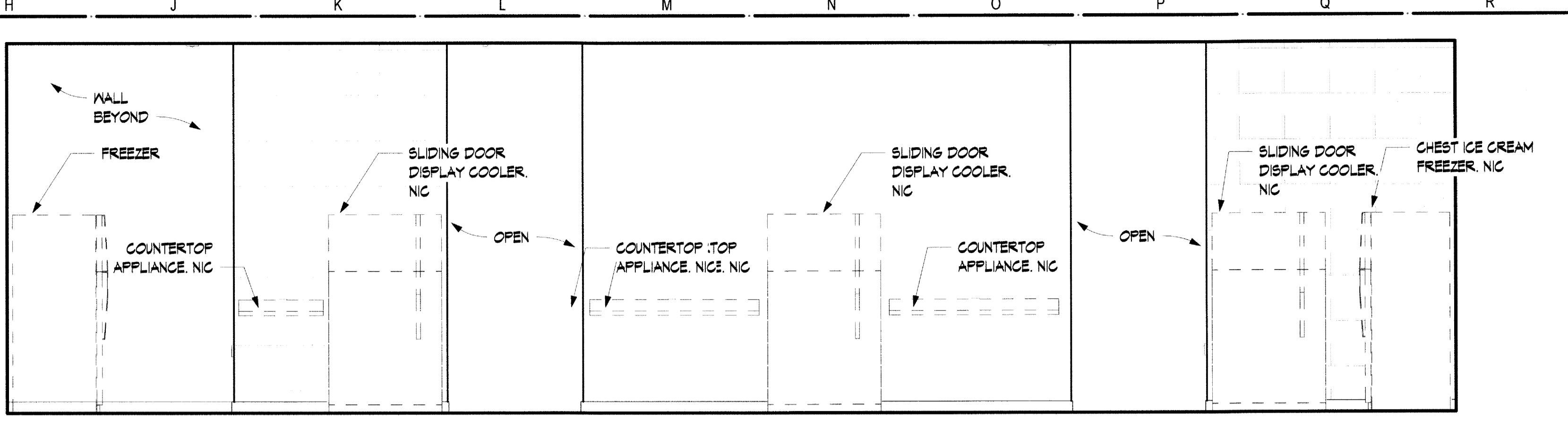


Issue Date: 10/6/2017  
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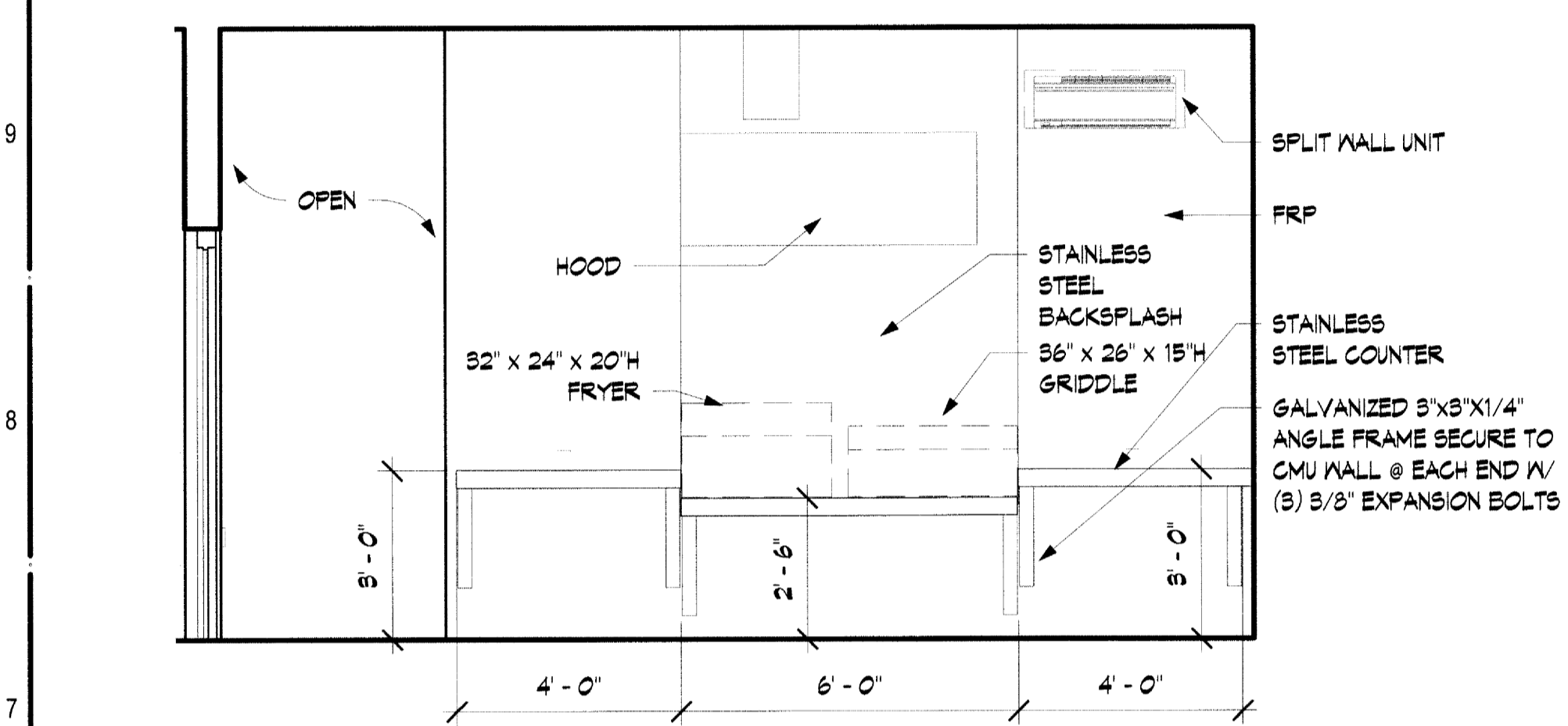




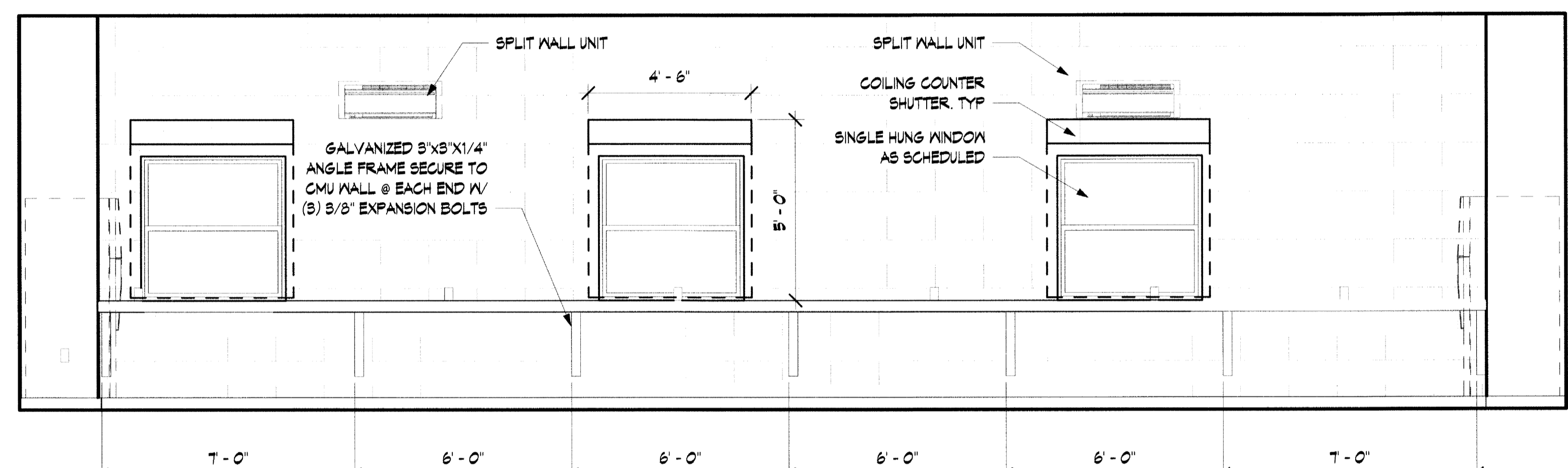
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3/8" = 1'-0"



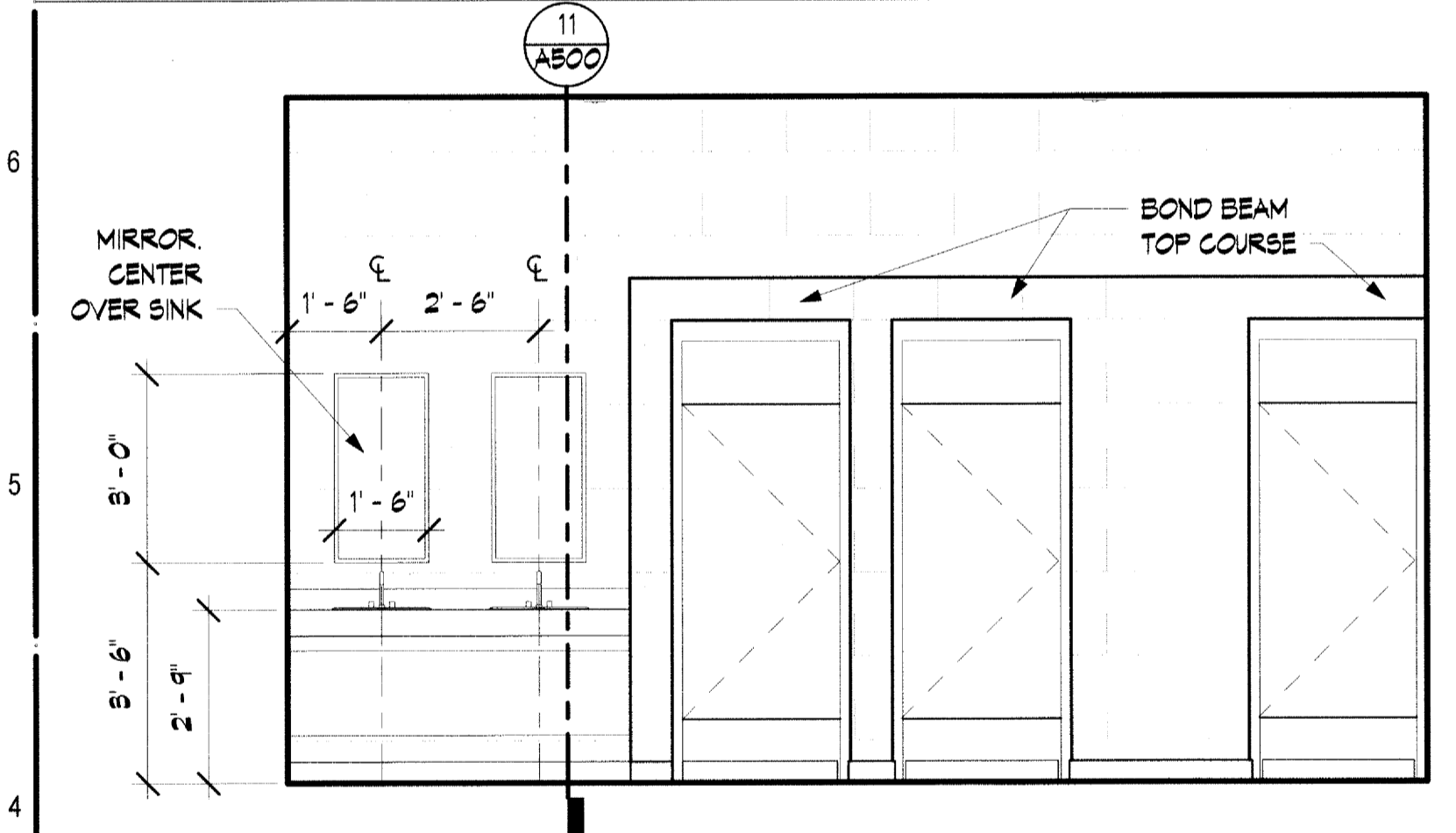
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3/8" = 1'-0"



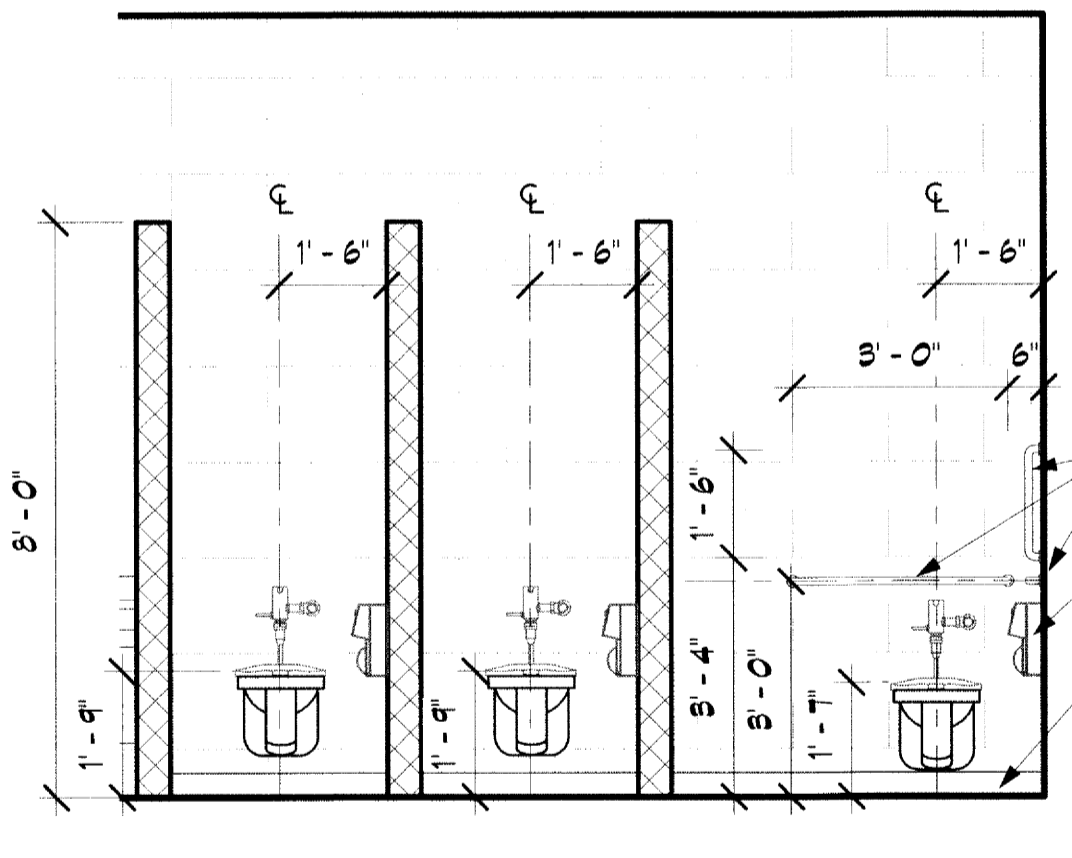
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3/8" = 1'-0"



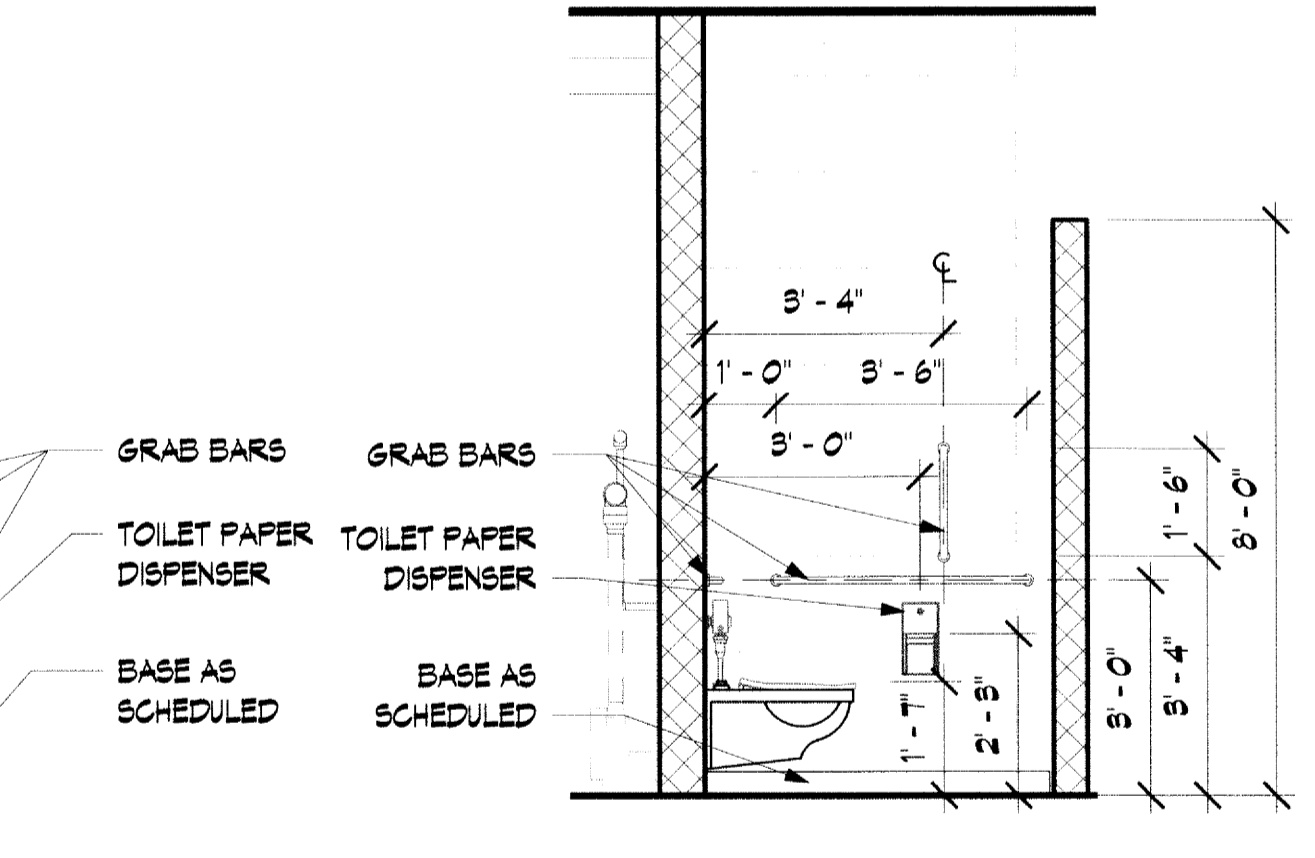
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3/8" = 1'-0"



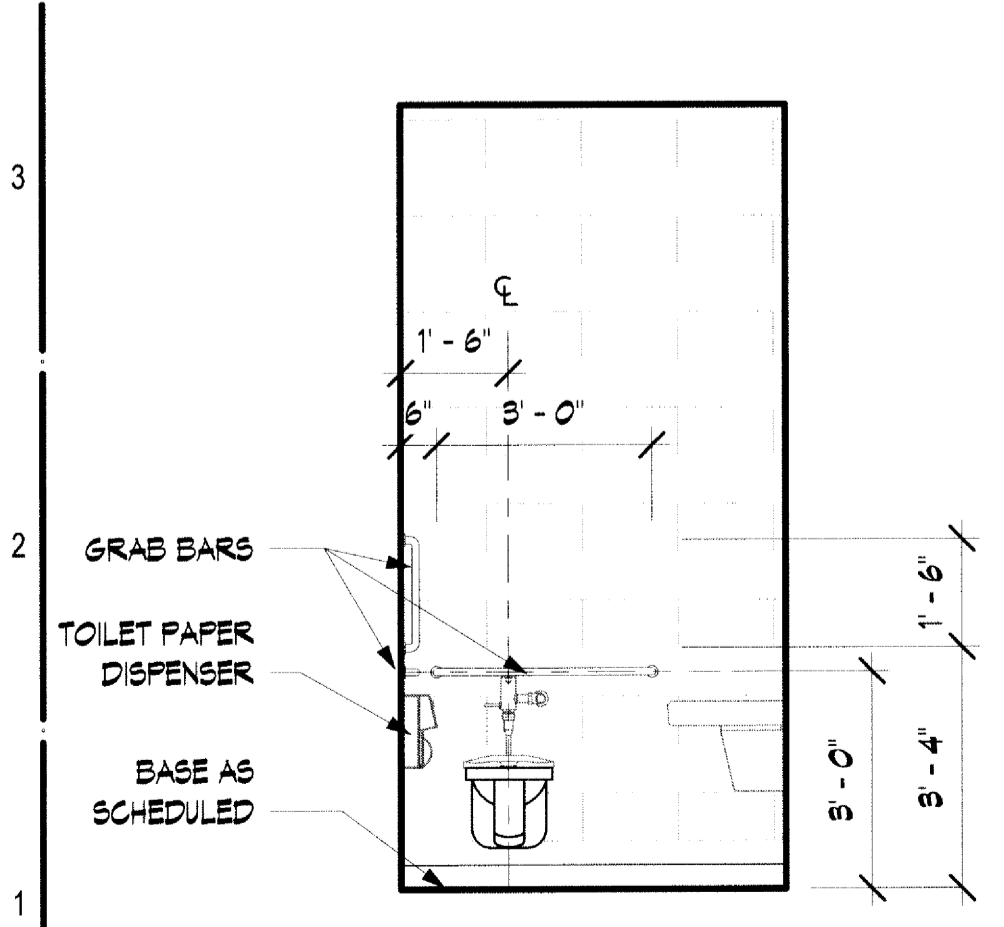
5 INTERIOR ELEV 5 @ WOMEN TLT 104  
3/8" = 1'-0"



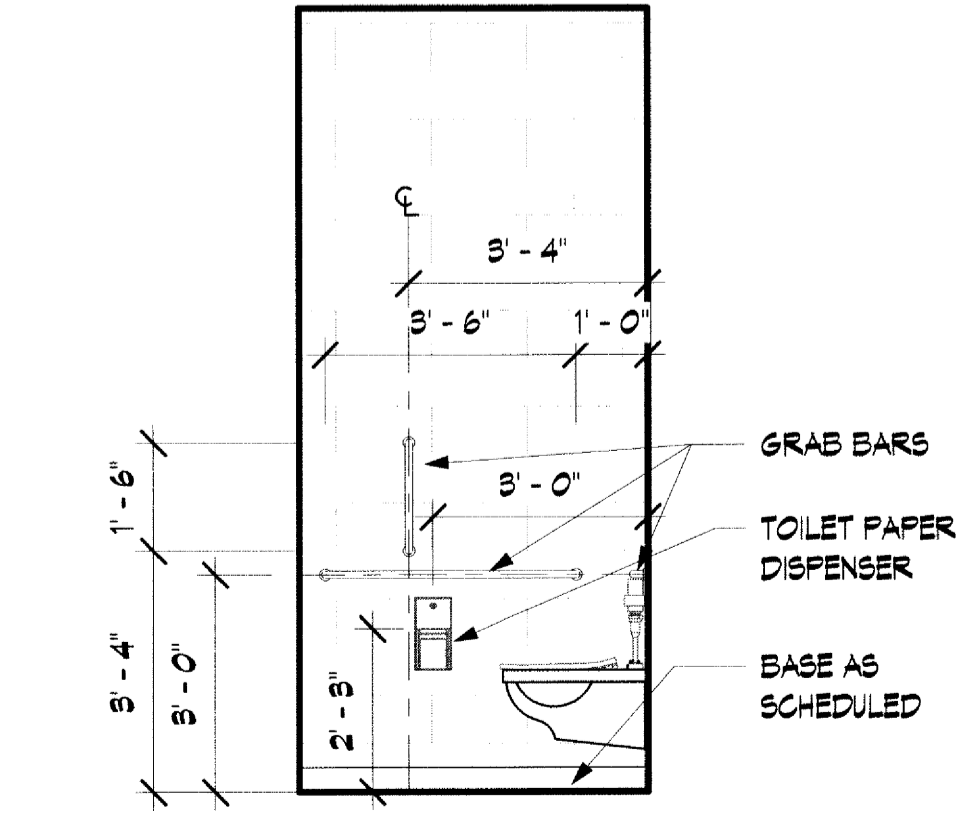
6 INTERIOR ELEV 6 @ WOMEN TLT 104  
3/8" = 1'-0"



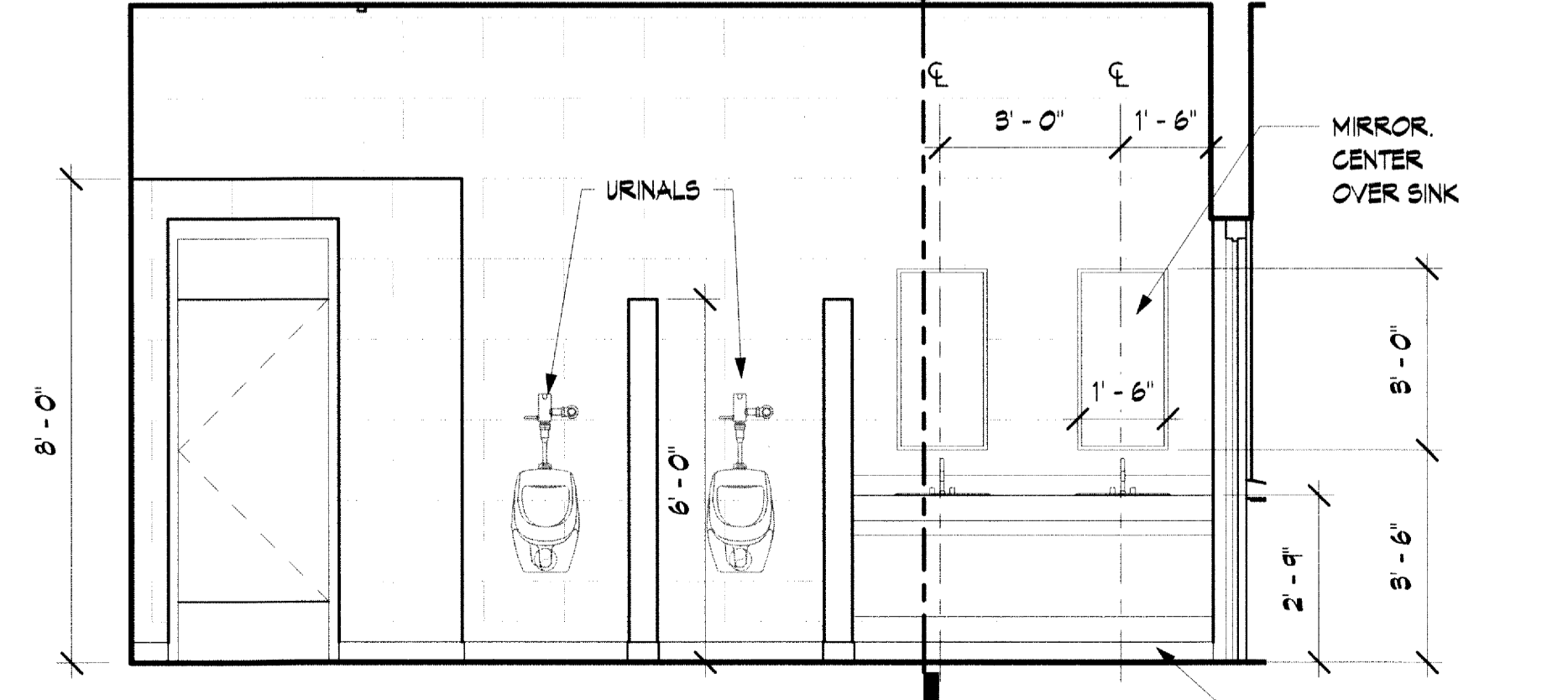
7 INTERIOR ELEV 7 @ WOMEN TLT 104  
3/8" = 1'-0"



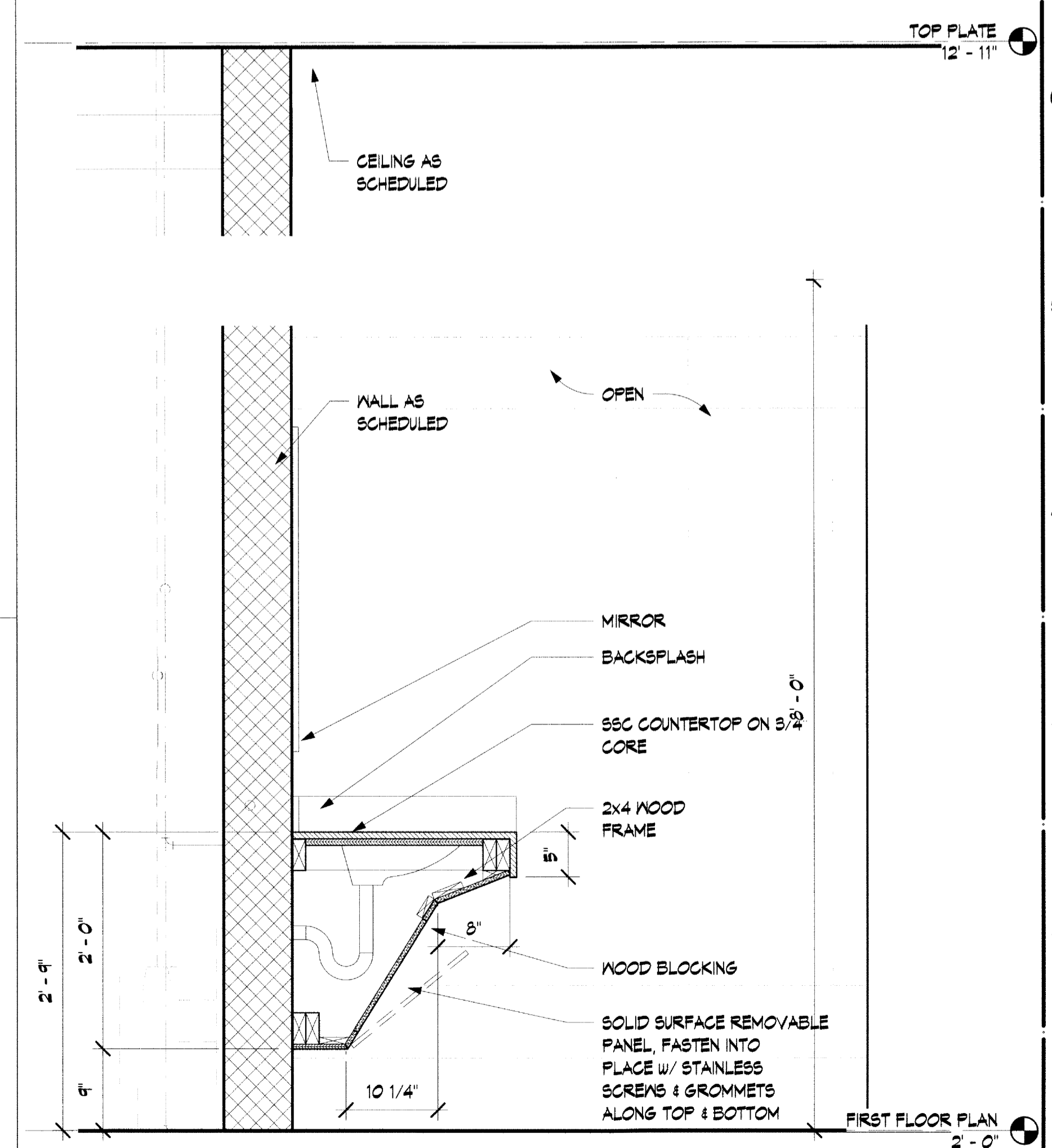
8 INTERIOR ELEV 8 @ TLT 106  
3/8" = 1'-0"



9 INTERIOR ELEV 9 @ TLT 106  
3/8" = 1'-0"



10 INTERIOR ELEV 10 @ MEN TLT 105  
3/8" = 1'-0"



11 MILLWORK SECTION - RESTROOM  
1" = 1'-0"

Rev.	Date	Revision Description



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Project No: F10472  
Drawn By: RP  
Checked By: JN  
Sheet Title:

**INTERIOR ELEVATIONS, DETAILS**

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS			MTG. TYPE	MTG. HT.	REC. DEPTH	DESCRIPTION
			LAMP/FIX	WATTS	TYPE				
A	TRACELITE	LP24-47-4K-LP24-SMK	LOT	42	LED	S	C	-	2'x4' SURFACE MOUNTED LED FLAT PANEL WITH 4000K COLOR TEMPERATURE, 4652 LUMEN OUTPUT, AND ELECTRONIC DRIVER.
	MHT LIGHTING	MHTL-PAN-SG-2X4-50E-4000K-U-SM-DB							
	NUVO	NUVO 65-318							
A1	TRACELITE	LP24-47-4K-LP24-SMK-LED-EM-3W	LOT	42	LED	S	C	-	2'x4' SURFACE MOUNTED LED FLAT PANEL WITH 4000K COLOR TEMPERATURE, 4652 LUMEN OUTPUT, ELECTRONIC DRIVER, AND EMERGENCY BATTERY PACK.
	MHT LIGHTING	MHTL-PAN-SG-2X4-50E-4000K-U-SM-EM-DB							
	NUVO	NUVO 65-318-EM							
G	COLUMBIA	LCL4-40ML-EDU	LOT	42	LED	S	C	-	4' LED STRIP LIGHT WITH ACRYLIC DIFFUSER, STEEL HOUSING, 4000K COLOR TEMPERATURE, 4000 LUMEN OUTPUT, AND WHITE FINISH.
	LITHONIA	ZL1D-L48-SMR-5000LM-FST-MVOL-40K-80CRI-80CRI-WH							
G1	COOPER	4SLSTP40400-UNV	LOT	42	LED	S	C	-	4' LED STRIP LIGHT WITH ACRYLIC DIFFUSER, STEEL HOUSING, 4000K COLOR TEMPERATURE, 4000 LUMEN OUTPUT, WHITE FINISH, AND EMERGENCY BATTERY PACK.
	COLUMBIA	LCL4-40ML-EDU-ELL14							
	LITHONIA	ZL1D-L48-SMR-5000LM-FST-MVOL-40K-80CRI-F15W-CP-WH							
M	COOPER	4SLSTP40400-UNV-EM	LOT	25	LED	S	-	-	TRAPEZOIDAL SHAPE WALL MOUNTED LED EXTERIOR WALL SCONCE WITH 3000 LUMENS, ALUMINUM HOUSING, DARK BRONZE FINISH, IP65 RATED, PHOTOCELL, NIGHT TIME FRIENDLY, AND EMERGENCY BATTERY PACK.
	LITHONIA	WST-LED-P2-40K-VF-MVOL-T-DBX0-PE-E20WC							
	COLUMBIA	JRP-30L4K-035-4-1-DB-PC-RBL							
	COOPER	IST-AF-450-LED-E1-T4FT-BZ-P-CWB-120							

ABBREVIATIONS: LJ-LAY-IN C-CEILING LG-LENS GASKETING GMF-INTERNAL SLOW BLOW FUSE FL-FLUORESCENT MH-METAL HALIDE HO-HIGH OUTPUT  
 AFF-ABOVE FINISH FLOOR P-PENDENT FC-FROM CEILING R-RECESSED AM-ABOVE MIRROR W-WALL AD-ABOVE DOOR  
 S-SURFACE DTT-DOUBLE TWIN TUBE FLUORESCENT CA-CANOPY TC-TOP OF METAL CANOPY AW-ABOVE WINDOW

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- EACH LIGHT FIXTURE SHALL BE EQUIPPED WITH LAMPS. FURNISH AND INSTALL LAMPS AS SHOWN IN SCHEDULE AND IN SPECIFICATIONS.
- FIXTURE OUTLET BOX LOCATIONS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND APPROXIMATE IN LOCATION. EXACT POSITION OF THE OUTLET BOX SHALL DEPEND ON THE FIXTURE AND THE MOUNTING DETAIL.
- MOUNTING AND SUPPORT DETAILS FOR LIGHTING FIXTURES SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE THE FIXTURES ARE INSTALLED. NO COMBUSTIBLE MATERIALS SHALL BE USED.
- WET LOCATION FIXTURES SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION SO AS TO ENSURE THE PREVENTION OF MOISTURE FROM ENTERING THE FIXTURE. IN ADDITION, EACH CONDUIT ENTRY WILL BE SEALED BY USE OF AN APPROVED SWEDGE FITTING WITH A NEOPRENE SEAL, AS MANUFACTURED BY JOHN REMKE COMPANY OR APPROVED EQUAL.
- OUTLET BOXES SERVING WET LOCATION FIXTURE SHALL BE CODE SIZE, WITH A WATERTIGHT SOLID CAST TOP. CONDUIT ENTRIES SHALL BE THREADED.

GENERAL NOTES:

- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION. VERIFY ALL CASEWORK DETAILS TO ENSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
- SERVICE TO THE BUILDING SHALL BE 120/208 VOLTS, 3PHASE, 4WIRE, WYE.
- ALL CONDUIT SHALL BE RUN CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- THE CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- THE CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR AND VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED AND THE DIMENSIONS WHICH MAY AFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
- VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN. LIKEWISE APPRAISE ALL TRADES OF THE LOCATIONS OF ELECTRICAL WORK THAT AFFECTS WALL THICKNESS, PLUMBING, MECHANICAL, ETC.
- ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN INSULATED GROUND WIRE PULLED IN THE CONDUIT WITH CURRENT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE UNLESS INDICATED TO BE LARGER IN THE SPECIFICATIONS OR PLANS.
- DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE NATIONAL ELECTRICAL CODE (HEREINAFTER REFERRED TO AS "CODE" OR "NEC"), THE AMERICANS WITH DISABILITIES ACT, AND THE REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND, WHERE APPLICABLE, UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.
- THE MAIN SERVICE SHALL HAVE THE GROUNDED CONDUCTOR (NEUTRAL) GROUNDED TO THE GROUNDING ELECTRODE SYSTEM AT THE SUPPLY SIDE OF THE SERVICE DISCONNECTING MEANS BY A GROUNDING ELECTRODE CONDUCTOR NOT SMALLER THAN THAT SHOWN IN TABLE 250-66 OF THE NEC. THE GROUNDED CONDUCTOR (NEUTRAL), THE GROUNDING ELECTRODE CONDUCTOR, AND THE EQUIPMENT GROUNDING CONDUCTOR CONNECTIONS SHALL BE MADE INSIDE THE SERVICE ENTRANCE EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER.
- MINIMUM CONDUCTOR SIZE SHALL BE #12.
- ALL CONDUIT INSTALLED INDOORS SHALL BE EMT, OTHERWISE SHALL BE IMC.
- SWITCH AND RECEPTACLE COVER PLATES SHALL BE STAINLESS STEEL.
- ALL DEVICES SHALL BE GRAY.
- ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY, RATED 100,000 AIC.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
- ALL CONDUCTORS SHALL BE THHN TYPE INSULATION.
- ALL SECTION OF RACEWAYS AND CONDUITS SHALL BE GROUNDED WITH AN INDEPENDENT #4 GREEN WIRE THAT IS TO ATTACHED USING SOLDERLESS LUGS. ALL CEILING MOUNTED STRUCTURAL SUPPORT MEMBERS AND CEILING PLATES SHALL ALSO BE GROUNDED. ALL GROUNDING CONNECTIONS, TERMINALS, ETC. SHALL BE INSTALLED IN A MANNER TO PROVIDE ACCESSIBILITY FOR INSPECTIONS, MAINTENANCE, REPAIR, ETC.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR, PRIOR TO BID, TO REAFFIRM WITH THE UTILITY COMPANIES INVOLVED, THAT THE LOCATION, ARRANGEMENT (AND THE POWER COMPANY: VOLTAGE, PHASE & METERING REQUIRED) AND CONNECTIONS AT THE UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS & REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS & SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE ANY ADDITIONAL COST NECESSARY TO MEET THOSE REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER AFTER A CONTRACT HAS BEEN ENTERED INTO.
- ON MANY PROJECTS, THE UTILITY COMPANY MAY LEVY CHARGES DUE TO LOCATION, SIZE OR TYPE OF SERVICE INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE CHARGES, UNLESS SUCH CHARGES ARE NOT AVAILABLE PRIOR TO BID & CONTRACTOR SO DOCUMENTS AT BID OPENING. SHOULD THE COST NOT BE AVAILABLE, PRIOR TO BID, THE CONTRACTOR SHALL SUBMIT A LETTER SO STATING WITH HIS BID.
- ARRANGE WITH UTILITY COMPANIES FOR SUCH SERVICE AS SHOWN OR HEREIN SPECIFIED & INSTALLATION OF METER WHERE SHOWN. FURNISH WITH SHOP DRAWINGS, A SIGNED DOCUMENT FROM UTILITY COMPANIES DESCRIBING THE LOCATION & TYPE OF SERVICES TO BE FURNISHED AND ANY REQUIREMENTS THEY MAY HAVE. THIS DOCUMENT SHALL BE SIGNED FOR EACH UTILITY COMPANY BY A PERSON RESPONSIBLE FOR GRANTING SUCH SERVICES.
- PAY ALL CHARGES (IF ANY) IN CONNECTION THEREWITH, INCLUDING PERMANENT METER DEPOSIT. METER DEPOSIT WILL BE REFUNDED TO THE CONTRACTOR AT TIME OF OWNER'S ACCEPTANCE.

CONCESSION BUILDING -  
CITY OF JONESBORO  
JONESBORO, AR

Rev.	Date	Description

Seal

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**GENERAL NOTES AND FIXTURE SCHEDULE**

**E101**

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GRAPHICAL ELECTRICAL SYMBOLS

BRANCH CIRCUIT SYMBOLS		
	BRANCH CIRCUIT	HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 2#12&1#12GRD-3/4"C.
	BRANCH CIRCUIT	CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT	CONCEALED IN FLOOR.
	BRANCH CIRCUIT	EXISTING CONDUIT BARS DENOTE NEW CONDUCTORS.
	BRANCH CIRCUIT	EXPOSED.
	BRANCH CIRCUIT	RISER UP.
	BRANCH CIRCUIT	RISER DOWN.
BRANCH CIRCUIT NOTES		
	BRANCH CIRCUIT	3#12&1#12GRD-3/4"C
	BRANCH CIRCUIT	4#12&1#12GRD-3/4"C
	BRANCH CIRCUIT	2#10&1#10GRD-3/4"C
	BRANCH CIRCUIT	3#10&1#10GRD-3/4"C

SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND THE HASHMARKS INDICATE THE NUMBER OF WIRES REQUIRED. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122. THE NUMBER OF HASH MARKS DO NOT INCLUDE EQUIPMENT GROUNDING CONDUCTOR.

FIRE ALARM SYSTEM SYMBOLS		
	FIRE ALARM SYSTEM	MANUAL PULL STATION, MOUNT 44"H.
	FIRE ALARM SYSTEM	LOCAL ALARM AND SUPERVISORY CONTROL PANEL.
	FIRE ALARM SYSTEM	ANNUNCIATOR.
	FIRE ALARM SYSTEM	SMOKE DETECTOR, PHOTOELECTRIC.
	FIRE ALARM SYSTEM	AUTOMATIC FIRE DETECTOR, THERMAL.
	FIRE ALARM SYSTEM	DUCT SMOKE DETECTOR.
	FIRE ALARM SYSTEM	AUDIO AND VISUAL SIGNAL, BOTTOM OF DEVICE MOUNTED AT 80"H.
	FIRE ALARM SYSTEM	VISUAL SIGNAL, BOTTOM OF DEVICE MOUNTED AT 80"H.
	FIRE ALARM SYSTEM	WATER FLOW SWITCH, SPRINKLER SYSTEM.
	FIRE ALARM SYSTEM	SUPERVISORY SWITCH, SPRINKLER SYSTEM.
	FIRE ALARM SYSTEM	CONTROL ZAM.
	FIRE ALARM SYSTEM	MONITOR ZAM.
	FIRE ALARM SYSTEM	WIRING IN CONDUIT.

FIRE ALARM SYSTEM NOTES		
ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS NOTED BY "S" IN WHICH CASE THE DEVICES SHALL BE MOUNTED ON A SURFACE BOX, FURNISHED BY THE FIRE ALARM EQUIPMENT SUPPLIER, FINISHED TO MATCH THE ALARM SYSTEM EQUIPMENT.		

GENERAL SYMBOLS	
	JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
	ONE GANG BOX WITH 3/4"C. STUB UP ABOVE ACCESSIBLE CEILING WITH COAXIAL CABLE AND TV JACKS.
	MOTOR - SHOWN 2HP (TYPICAL) OR 45 AMPS (TYPICAL).
	AIR CONDITIONING UNIT.
	UNIT HEATER, SIZE, VOLTAGE, PHASE AS SHOWN.
	CABINET UNIT HEATER - WALL MOUNTED, SIZE, VOLTAGE, PHASE, AS SHOWN.
	CEILING EXHAUST FAN - FRACTIONAL.
	MAGNETIC MOTOR STARTER.
	MANUAL MOTOR STARTER WITH THERMAL PROTECTION.
	COMBINATION, FUSED OR CIRCUIT BREAKER & MAGNETIC MOTOR STARTER.
	SAFETY SWITCH, NON-FUSED.
	SAFETY SWITCH, FUSED.
	CIRCUIT BREAKER MOUNTED IN NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE.
	LIGHTING PANEL AND/OR RECEPTACLE PANEL.
	POWER PANEL.
	TRANSFORMER.
	GROUND.
	MOTOR GENERATOR.
	AUTOMATIC TRANSFER SWITCH.

GENERAL ABBREVIATIONS	
H	MOUNTING HEIGHT ABOVE FINISHED FLOOR.
AF	ABOVE FINISHED FLOOR.
WP	WEATHER PROOF - NEMA 3R
RT	RAIN TIGHT - NEMA 4.
EP	EXPLOSION PROOF.
TP	TAMPER PROOF.
A	MOUNT ABOVE COUNTER.
BC	MOUNT BELOW COUNTER.
F	FLUSH MOUNTED.
SLD	SEE SINGLE LINE DIAGRAM.
GFI	GROUND FAULT INTERRUPTING.
C	CONDUIT.
GC	FLEXIBLE CONDUIT.
SFC	SEALTITE FLEXIBLE CONDUIT.
EMT	ELECTRICAL METALLIC TUBING.
IMC	INTERMEDIATE METALLIC CONDUIT.
RG	RIGID CONDUIT.
PVC	NONMETALLIC RIGID CONDUIT.
EX	EXISTING.
XR	EXISTING TO BE REMOVED.
RL	EXISTING TO BE REMOVED AND RELOCATED.
RQ	EXISTING TO BE REMOVED. EXTEND CIRCUIT CONDUCTORS AS REQUIRED AND INSTALL FINISHED BLANK COVER.
RR	EXISTING TO BE REMOVED AND REPLACED WITH NEW.
RL'D	RELOCATED POSITION.

LIGHTING FIXTURE & CONTROL SYMBOLS		
	CEILING OUTLET	FIXTURE TYPE "A" CIRCUIT #1.
	CEILING OUTLET	EXISTING.
	CEILING OUTLET	FLUORESCENT FIXTURE, SINGLE OR CONTINUOUS, LENGTHS AS SHOWN.
	CEILING OUTLET	FLUORESCENT STRIP.
	WALL OUTLET	BRACKET TYPE FIXTURE.
	WALL OUTLET	FLUORESCENT BRACKET TYPE FIXTURE.
	SWITCH OUTLET	A.C. TYPE, SINGLE POLE, 20A, 125/277V.
	SWITCH OUTLET	A.C. TYPE, THREE WAY, 20A, 125/277V.
	SWITCH OUTLET	TIME SWITCH, WALL MOUNTED. WATT STOPPER #TS-400.
	SWITCH OUTLET	180° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, WALL MOUNTED. WATT STOPPER #DW-100.
	SWITCH OUTLET	DIGITAL SWITCH. SUBSCRIPTS CORRESPOND TO DETAIL.
	SWITCH OUTLET	DIMMER, 600, 1000, OR 1500 WATT INCANDESCENT WITH SUPER TOROIDAL RFI FILTERING UNLESS NOTED OTHERWISE.
	SWITCH OUTLET	LIGHTING MOTION DETECTOR POWER PACK. INSTALL ABOVE ACCESSIBLE CEILING. WATT STOPPER #B277-P.
	SWITCH OUTLET	360° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, CEILING MOUNTED. WATT STOPPER #DT-300.
SWITCH OUTLET NOTES		
"N"	DENOTES NARROW TYPE FOR MOUNTING IN DOOR FRAMES, ETC. VERIFY MOUNTING REQUIREMENTS BEFORE ROUGH-IN.	
"K"	DENOTES KEY OPERATED SWITCH.	
"L"	DENOTES STANDARD SWITCH WITH HINGED LOCKING COVER.	
"P"	DENOTES PILOT LIGHT IN SWITCH HANDLE. PILOT IS ON WHEN SWITCH IS ON.	
"NL"	DENOTES PILOT LIGHT IN SWITCH HANDLE, PILOT IS ON WHEN SWITCH IS OFF.	
"EP"	EXPLOSION PROOF	
"a" "b" ETC.	FIXTURE CORRESPONDS TO A SWITCH DENOTED WITH THE SAME LOWER CASE LETTER.	

EXIT LIGHT SYMBOLS	
	CEILING MOUNTED, SINGLE FACE, NO ARROW.
	CEILING MOUNTED, DOUBLE FACE, LEFT OR RIGHT ARROWS.
	CEILING MOUNTED, SINGLE FACE, LEFT OR RIGHT ARROW.
	CEILING MOUNTED, SINGLE FACE, LEFT AND RIGHT ARROWS.
	CEILING MOUNTED, DOUBLE FACE, LEFT AND RIGHT ARROWS.
	WALL MOUNTED, SINGLE FACE, NO ARROW.
	WALL MOUNTED, SINGLE FACE, LEFT AND OR RIGHT ARROW(S).

RECEPTACLE OUTLET SYMBOLS		
	WALL OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R, MOUNT 48" AFF UNLESS OTHERWISE NOTED.
	WALL OUTLET	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R, SINGLE PLATE, MOUNT 48" AFF UNLESS OTHERWISE NOTED.
	WALL OUTLET	EXISTING.
	WALL OUTLET	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, GFCI, WEATHER-RESISTANT, WITH IN USE WEATHERPROOF COVER, MOUNT 48" AFF UNLESS OTHERWISE NOTED. HUBBELL CATALOG #GFR5362SGGY/ WP8M
	FLOOR OUTLET	DUPLEX RECEPTACLE, 15A, 125V, 3WIRE, NEMA 5-15R MOUNTED IN 3" DEEP FLOOR BOX WITH FLUSH BRASS RECTANGULAR COVER WITH HINGED RECEPTACLE COVERS.
	FLOOR OUTLET	FLUSH MOUNTED POKE THROUGH WITH DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R, FOUR SPACES FOR KEYSTONE CONNECTORS, AND BRUSHED BRASS COVER T&B #FPT4 4P 4C-BRS OR EQUAL.
RECEPTACLE OUTLET NOTES		
"G"	GROUND FAULT INTERRUPTER.	
"GA"	GROUND FAULT INTERRUPTER, MOUNTED ABOVE COUNTER.	
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	
"DF"	FOR DRINKING FOUNTAIN.	

VOICE/DATA OUTLET & CONDUIT SYMBOLS		
	VOICE/DATA OUTLET	WALL MOUNTED, WITH 3/4" CONDUIT HOMERUN TO NEAREST TELEPHONE CABINET OR BACKBOARD UNLESS NOTED OTHERWISE.
	VOICE/DATA OUTLET	WALL MOUNTED TELEPHONE, 54" AFF.
	VOICE/DATA OUTLET	TELEPHONE BACKBOARD - 3/4" PLYWOOD PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, 48"x96" HIGH, UNLESS SHOWN OTHERWISE.
	VOICE/DATA CONDUIT	WITH PULL CORD, 3/4" UNLESS SHOWN OTHERWISE.
	VOICE/DATA CONDUIT	CONDUIT WITH PULL CORD, HOMERUN TO NEAREST TERMINAL BOARD OR CABINET, 1 1/4" UNLESS NOTED OTHERWISE.
VOICE/DATA OUTLET NOTES		
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	

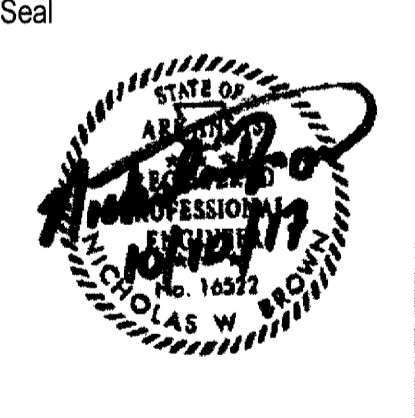
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**CONCESSION BUILDING -  
CITY OF JONESBORO**  
JONESBORO, AR

Rev.	Date	Revision Description



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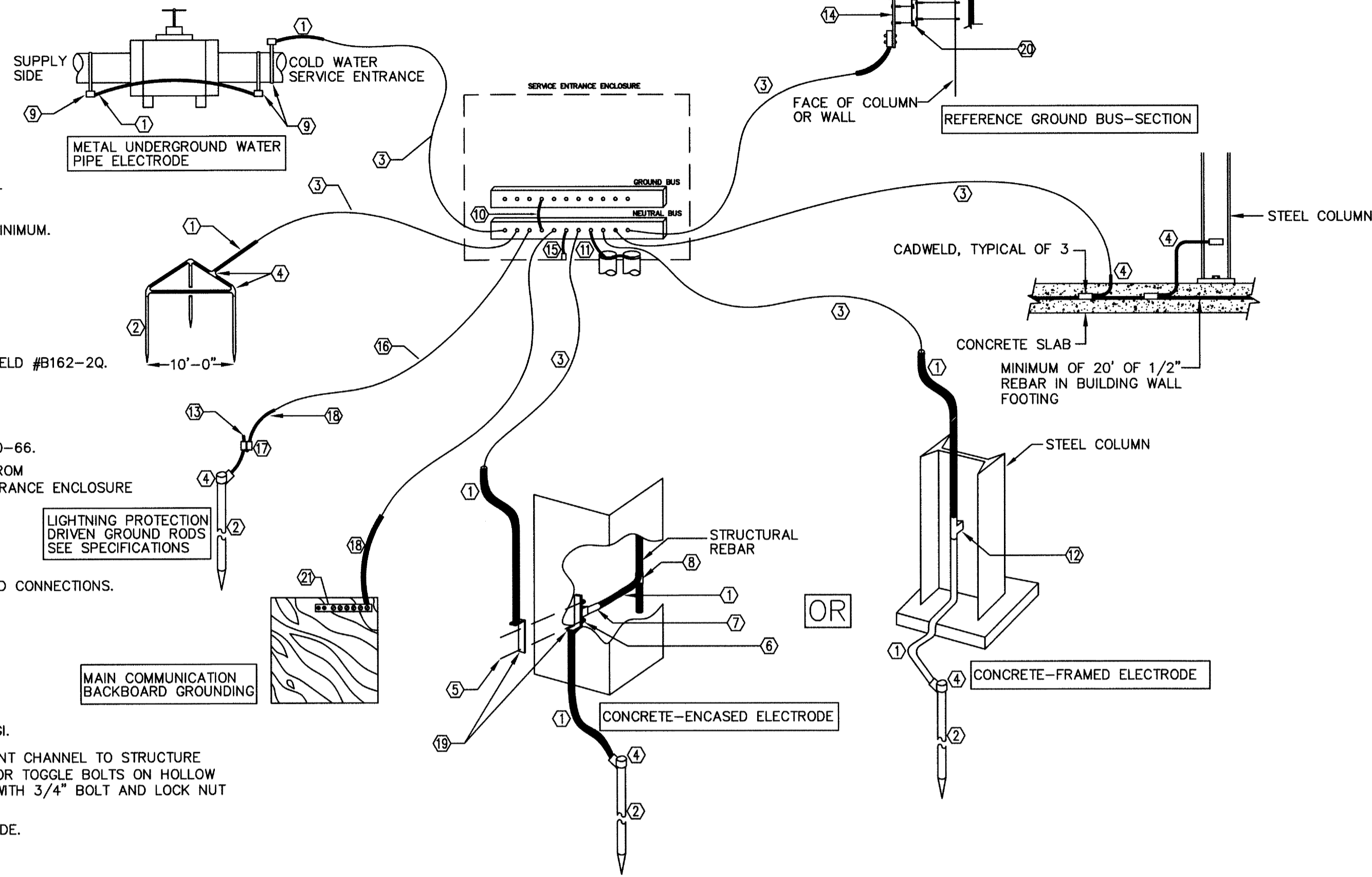
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PROJECT: F10472

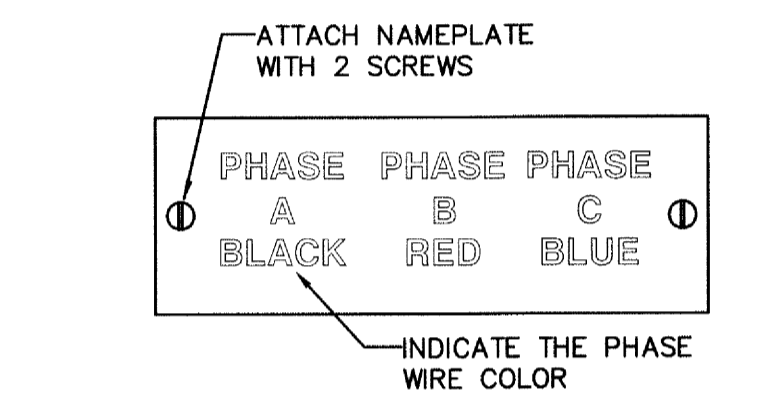
**GROUNDING SYSTEM DETAIL – KEY NOTES**

- ① 4/0 BARE GROUNDING ELECTRODE CONDUCTOR.
- ② 3/4"x10'-0" CLAD STEEL GROUND ROD, DRIVEN 24" BELOW GRADE, MINIMUM.
- ③ 4/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 2" PVC-40.
- ④ EXOTHERMIC WELD CONNECTOR:  
TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY  
CABLE TO CABLE TEE, CADWELD #TA  
ONE CABLE TO GROUND ROD, CADWELD #GR
- ⑤ SILICON BRONZE BOLT & WASHER.
- ⑥ TWO HOLE GROUND PLATE WITH 4/0 STUD, MOUNTED 6" A.F.F., CADWELD #B162-20.
- ⑦ EXOTHERMIC WELD, CABLE TO STUD, CADWELD #SS.
- ⑧ EXOTHERMIC WELD, CABLE TO STUD, CADWELD #RR.
- ⑨ CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G.
- ⑩ BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-66.
- ⑪ BONDING JUMPER TO GROUNDING BUSHING, AND BONDING JUMPERS FROM CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE SHALL BE BONDED, SIZED PER NEC 250.
- ⑫ EXOTHERMIC WELD, CABLE TO FLAT STEEL, CADWELD # V V.
- ⑬ LIGHTING PROTECTION COPPER DOWN CONDUCTOR.
- ⑭ 1/4"x4"x24" COPPER BUS. DRILL AND TAP BUS FOR BUILDING GROUND CONNECTIONS. SEPARATELY DERIVED SERVICES AND BACKBOARD GROUNDING POINTS.
- ⑮ MAIN BONDING JUMPER, SIZED BY MANUFACTURER PER 250-66.
- ⑯ 4/0 BONDING JUMPER IN 2" PVC-40.
- ⑰ EXOTHERMIC WELD, PARALLEL CABLE TO CABLE, CADWELD #PI.
- ⑱ 4/0 BARE BONDING JUMPER.
- ⑳ EXOTHERMIC WELD, CABLE TO TWO HOLE LUG ASSEMBLY, CADWELD #GI.
- ㉑ TWO 1-1/2"x1-1/2"x6" HIGH SLOTTED GALVANIZED C-CHANNEL. MOUNT CHANNEL TO STRUCTURE WITH MACHINE BOLTS AND CONCRETE ANCHORS ON SOLID MASONRY OR TOGGLE BOLTS ON HOLLOW MASONRY OR GYPSUM BOARD. MOUNT COPPER BUS TO C-CHANNEL WITH 3/4" BOLT AND LOCK NUT ASSEMBLY.
- ㉒ 6 CONDUCTOR GROUND BUS, COPPER OR ALUMINUM RATED, ILSCO #PDE.

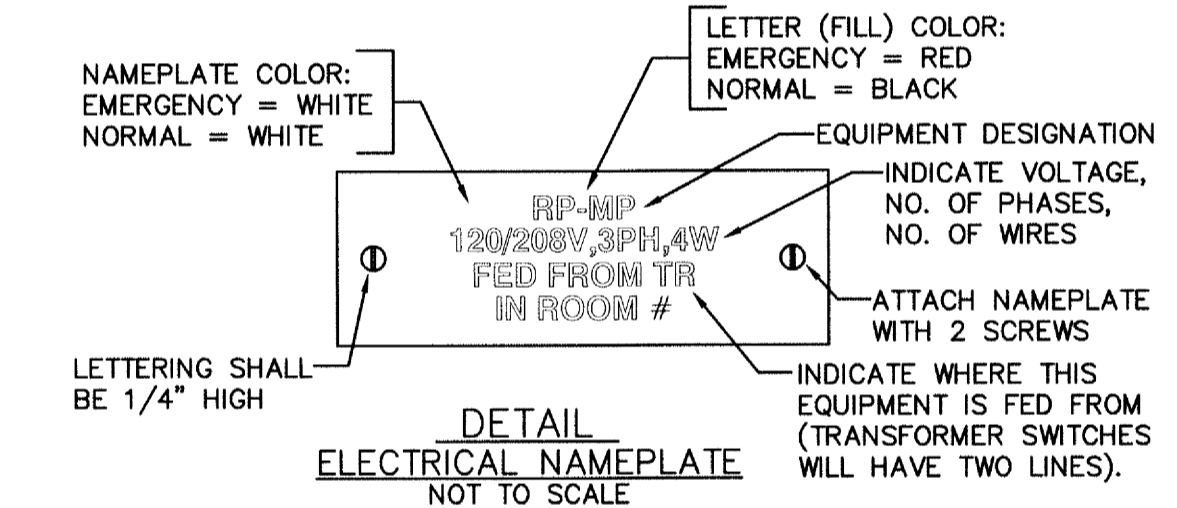


**GROUNDING SYSTEM DETAIL**  
NOT TO SCALE

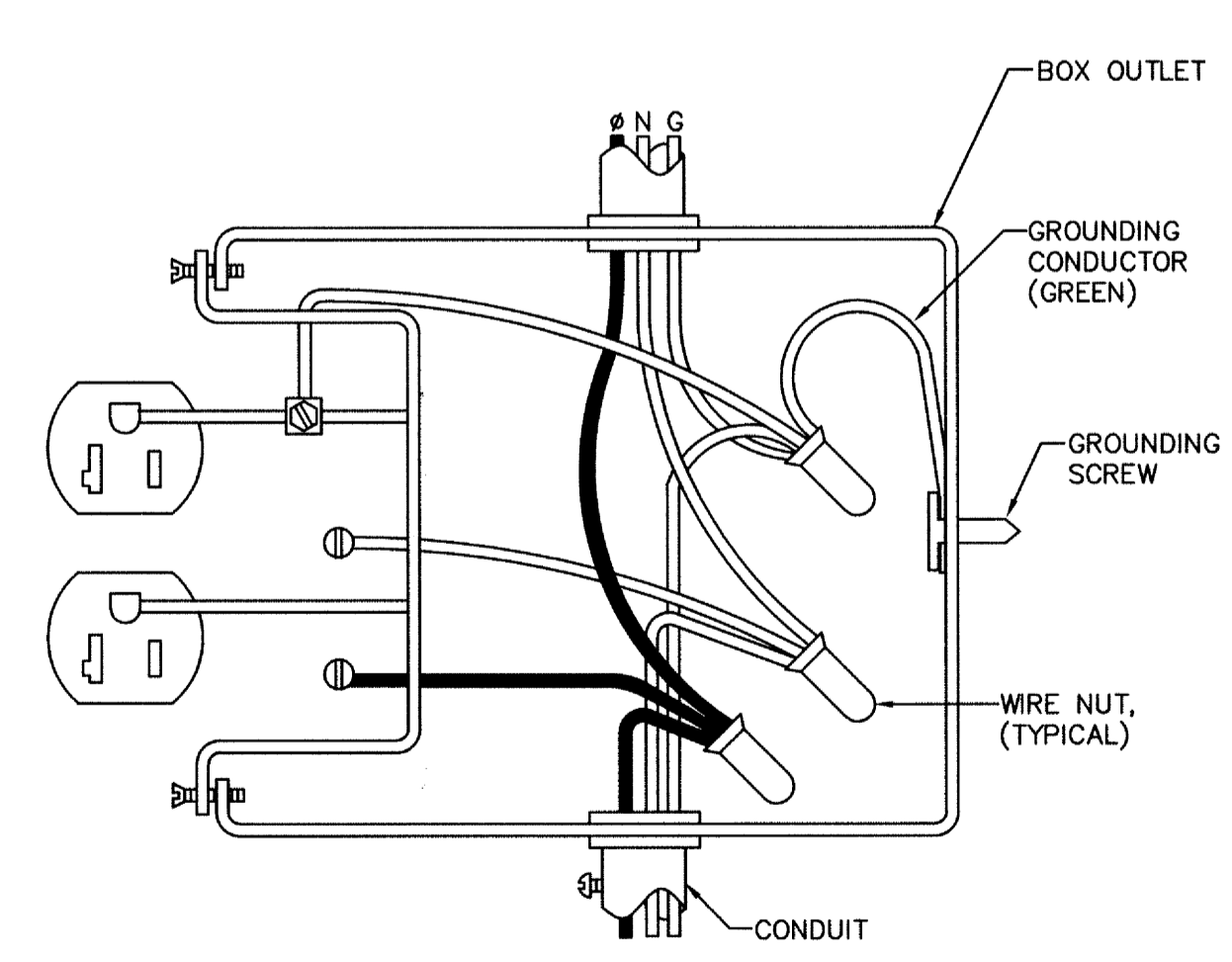
**DETAIL**  
120/208V PANELBOARD INSTALLATION  
& NAMEPLATE DETAIL  
NOT TO SCALE



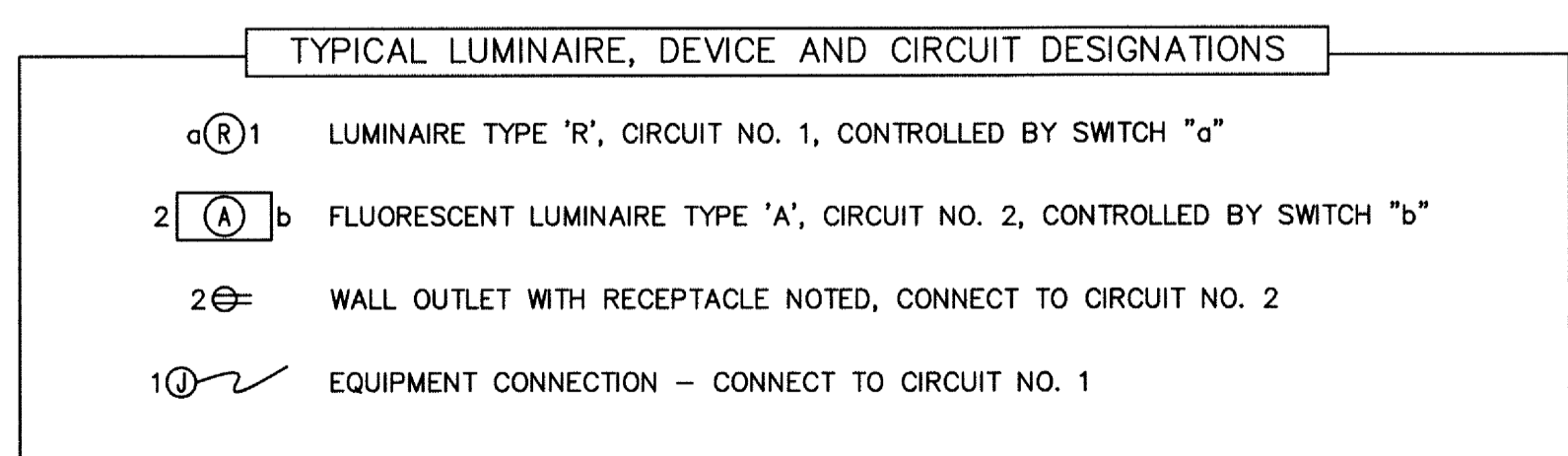
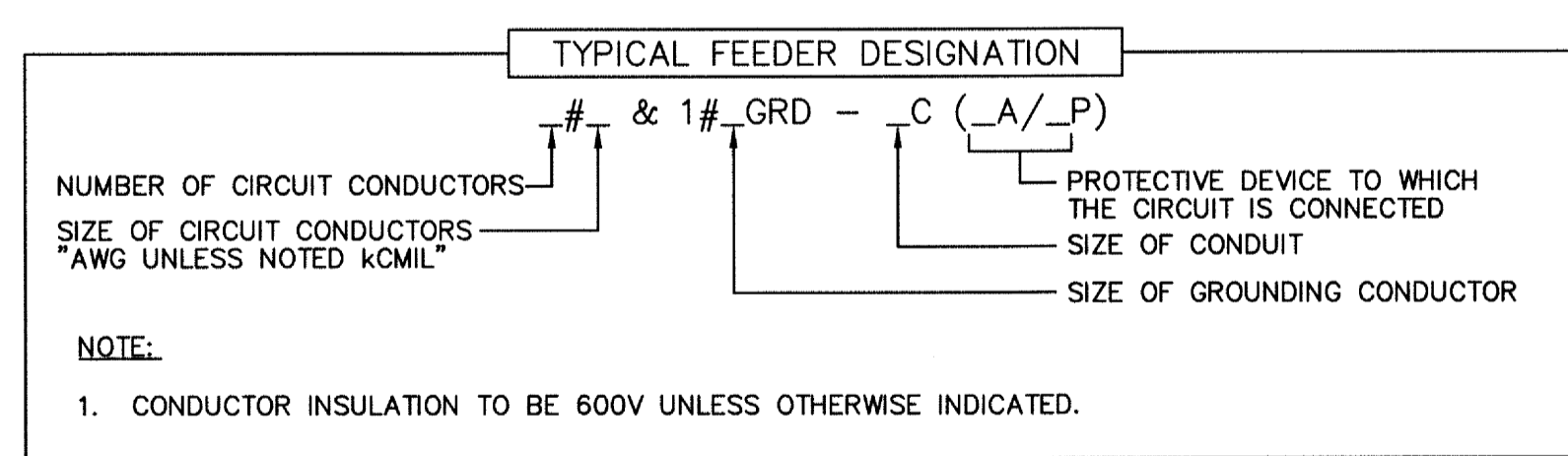
**DETAIL**  
120/208V PANELBOARD  
ELECTRICAL NAMEPLATE  
NOT TO SCALE



**DETAIL**  
ELECTRICAL NAMEPLATE  
NOT TO SCALE

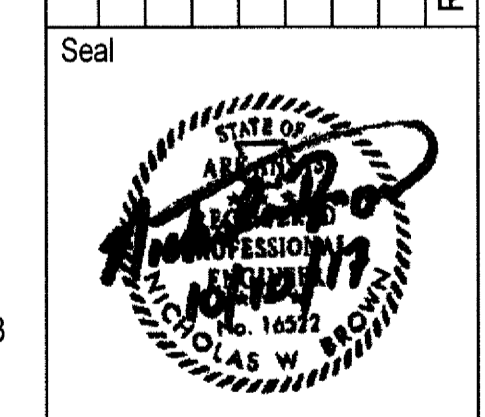


**DETAIL**  
RECEPTACLE INSTALLATION  
NOT TO SCALE



**DETAIL**  
WIRING DESIGNATION  
NOT TO SCALE

Rev.	Date	Revision Description

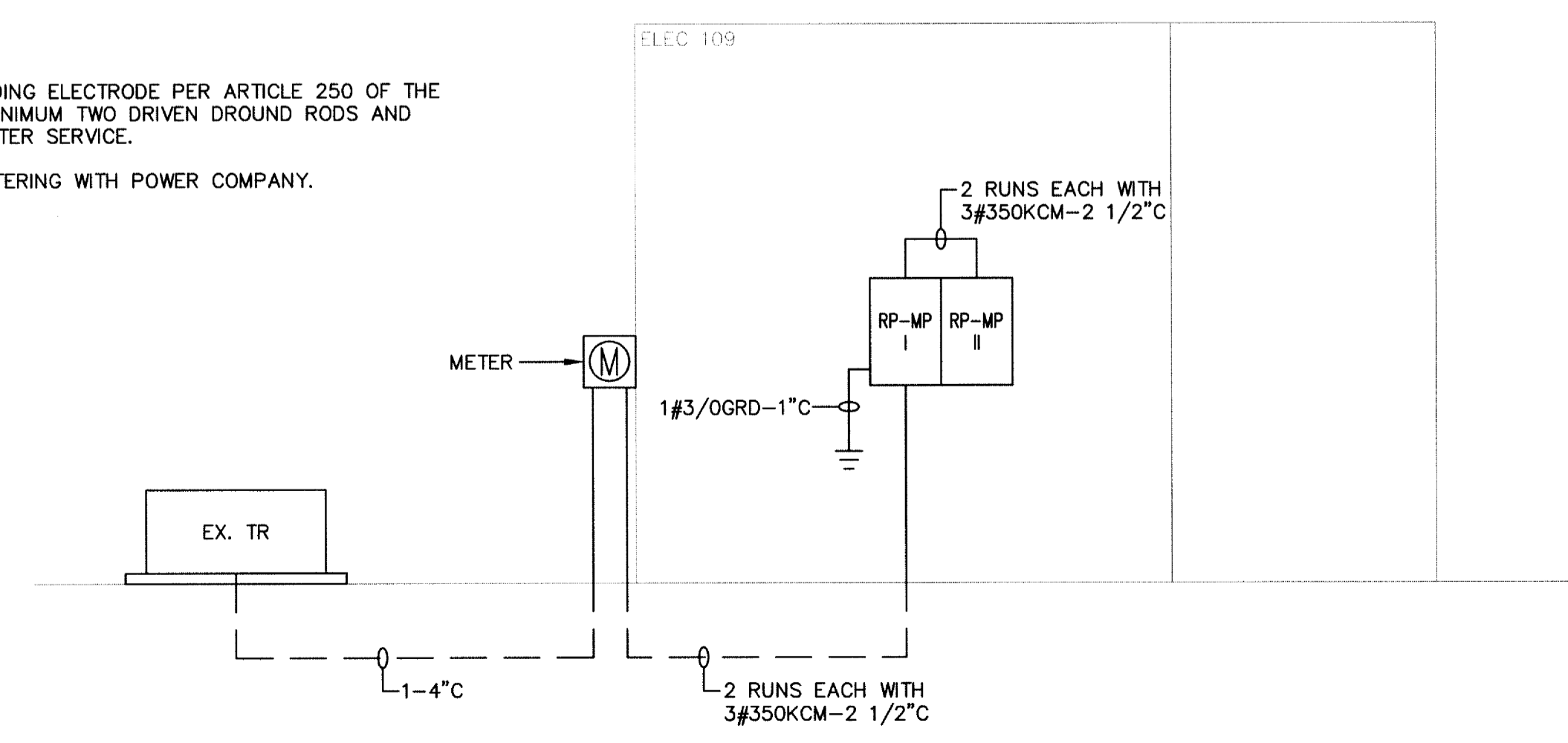


Issue Date: 8/18/2017  
Project No: F10472  
Drawn By: AL  
Checked By: JK  
Sheet Title:

PANEL LOAD SUMMARY														
Panel: RP-MP (SECTION I)														
Equipment	LIGHT	RCPT	OM	CB SIZE	CIRCUIT #	PHASE A	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	OM	Equipment	
MECH 110/111 RECP.		400		20/1	1	2303		22	20/2				1903	OU-1
ELEC/UMPIRES RECP.		800		20/1	2		2703	23					1803	OU-2
STORAGE/EXTERIOR RECP.		600		20/1	3	1422		24	16/2				822	KEF-1
MEN 106 RECEPTACLE		200		20/1	4		1022	25					830	KSF-1
TLT 106 RECEPTACLE		200		20/1	5	1064		26	20/1				628	SPARE
WOMEN 104 RECEPT.		200		20/1	6		1030	27	20/1					SPARE
CHASE 103 RECEPTACLE		400		20/1	7	400		28	20/1					EXTERIOR LIGHTING
STOR 101 RECEPTACLE		200		20/1	8		728	29	20/1					BACK OF HOUSE LTG.
EMPL TLT RECEPTACLE		200		20/1	9	328		30	20/1	126				FRONT OF HOUSE LTG.
DRINKING FOUNTAIN		200		20/1	10		200	31	20/1	420				COUNTERTOP APPLIANCE (4)
DRINKING FOUNTAIN		200		20/1	11	704		32	20/1	604				FRYER (1)
CASH REGISTER (6)			1200	20/1	12		1660	33	20/1					KITCHEN HOOD (1A)
COUNTERTOP APPLIANCE (4)			360	20/1	13	3660		34						DISPLAY COOLER (2)
REFRIGERATOR (6)			360	20/1	14		3660	35	60/2 (ST)					ICE CREAM FREEZER (3)
FREEZER (7)			360	20/1	15	720		36	20/1					DISPLAY COOLER (2)
COUNTERTOP APPLIANCE (4)			360	20/1	16		720	37	20/1					COUNTERTOP APPLIANCE (4)
COUNTERTOP APPLIANCE (4)			360	20/1	17	720		38	20/1					COFFEE URN (10)
COUNTERTOP APPLIANCE (4)			360	20/1	18		720	39	20/1					DISPLAY COOLER (2)
COUNTERTOP APPLIANCE (4)			360	20/1	19	720		40	20/1					DISPLAY COOLER (2)
COUNTERTOP APPLIANCE (4)			360	20/1	20		720	41	20/1					
COUNTERTOP APPLIANCE (4)			360	20/1	21	720		42	20/1					
Sub-Total	0	3600	4440			12768	13063			1049	0	17152		Sub-Total
TOTAL CONNECTED LOAD PER PHASE														
LOAD TYPE	Phase A	Phase C												
LIGHTING	629.00	420.00												
RECEPTACLES	2000.00	1600.00												
MOTORS/OTHER	10128.00	11463.00												
TOTAL	12768.00	13483.00												
TOTAL CONNECTED LIGHTING LOAD			1.06	KVA										
TOTAL CONNECTED RECEPTACLE LOAD			3.60	KVA										
TOTAL CONNECTED MOTOR/OTHER LOAD			21.59	KVA										
TOTAL CONNECTED LOAD			26.24	KVA										
* Diversified per NEC Table 220.13.														
VOLTS 120/ 240 V 1 Phase, 3 Wire & Grd Bus Bar														

PANEL LOAD SUMMARY														
Panel: RP-MP (SECTION II)														
Equipment	LIGHT	RCPT	OM	CB SIZE	CIRCUIT #	PHASE A	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	OM	Equipment	
GRIDDLE (1)			4802	90/2 (ST)	43	6302		64	20/2				1500	EH-1
			4802		44		6302	65					1500	
ELECTRIC WATER HEATER			9000	100/2	45	10500		66	20/2				1500	EH-1
			9000		46		10500	67					1500	
CIRC. PUMP			200	20/1	47	1700		68	20/2				1500	EH-1
HEAT TRACE			1000	20/2 (GF)	48		2600	69					1600	SPARE
			1000		49	1000		70	20/1					SPARE
HEAT TRACE			1000	20/2 (GF)	50		1000	71	20/1					SPARE
			1000		51	1000		72	20/1					SPARE
HOOD FIRE SUPPRESSION			100	20/1	52		100	73	20/1					SPARE
			1903		53	1903		74	20/1					SPARE
OU-1			1903	20/2	54		1903	75	20/1					SPARE
			1903		55	1903		76	20/1					SPARE
OU-1			1903	20/2	56		1903	77	20/1					SPARE
			822	16/2	57	822		78	20/1					SPARE
OU-2			822		58		822	79	20/1					SPARE
			1500	20/2	59	1500		80	20/1					SPARE
EH-1			1500		60		1500	81	20/1					SPARE
			1600	20/2	61	1600		82	20/1					SPARE
EH-1			1600		62		1600	83	20/1					SPARE
			1600	20/1	63	0		84	20/1					SPARE
SPARE														SPARE
Sub-Total	0	0	47160			29030				0	0	9000		Sub-Total
TOTAL CONNECTED LOAD PER PHASE														
LOAD TYPE	Phase A	Phase C												
LIGHTING	629.00	420.00												
RECEPTACLES	2000.00	1600.00												
MOTORS/OTHER	38269.00	39493.00												
TOTAL	40898.00	41513.00				40888.00	41613.00							
TOTAL CONNECTED LIGHTING LOAD			0.00	KVA										
TOTAL CONNECTED RECEPTACLE LOAD			3.60	KVA										
TOTAL CONNECTED MOTOR/OTHER LOAD			56.16	KVA										
TOTAL CONNECTED LOAD			56.16	KVA										
* Diversified per NEC Table 220.13.														
VOLTS 120/ 240 V 1 Phase, 3 Wire & Grd Bus Bar														

- GENERAL NOTES:**
- PROVIDE GROUNDING ELECTRODE PER ARTICLE 250 OF THE NEC. PROVIDE MINIMUM TWO DRIVEN GROUND RODS AND CONNECT TO WATER SERVICE.
  - COORDINATE METERING WITH POWER COMPANY.



SINGLE LINE DIAGRAM  
POWER  
NOT TO SCALE



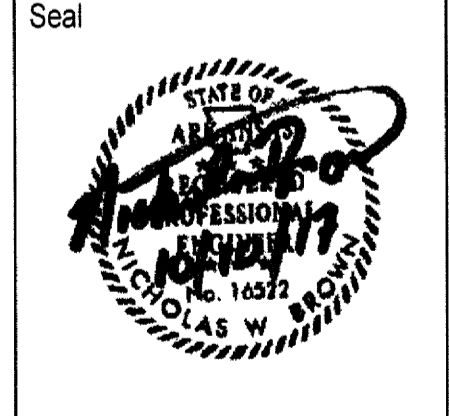
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CITY OF JONESBORO**  
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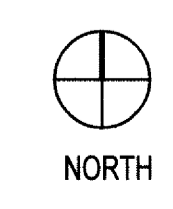


Issue Date: 8/18/2017  
Project No: F10472  
Drawn By: AL  
Checked By: JK

SHEET TITLE:  
**SINGLE LINE  
DIAGRAM &  
PANELBOARD  
SCHEDULE**



1 Site Plan - Electrical  
1" = 20'-0"

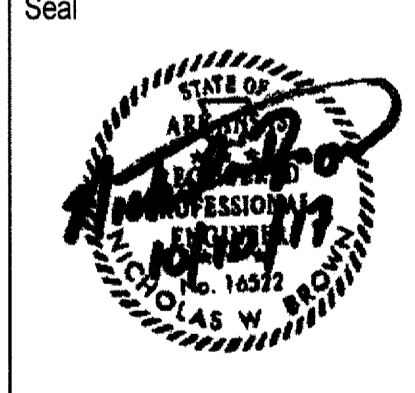


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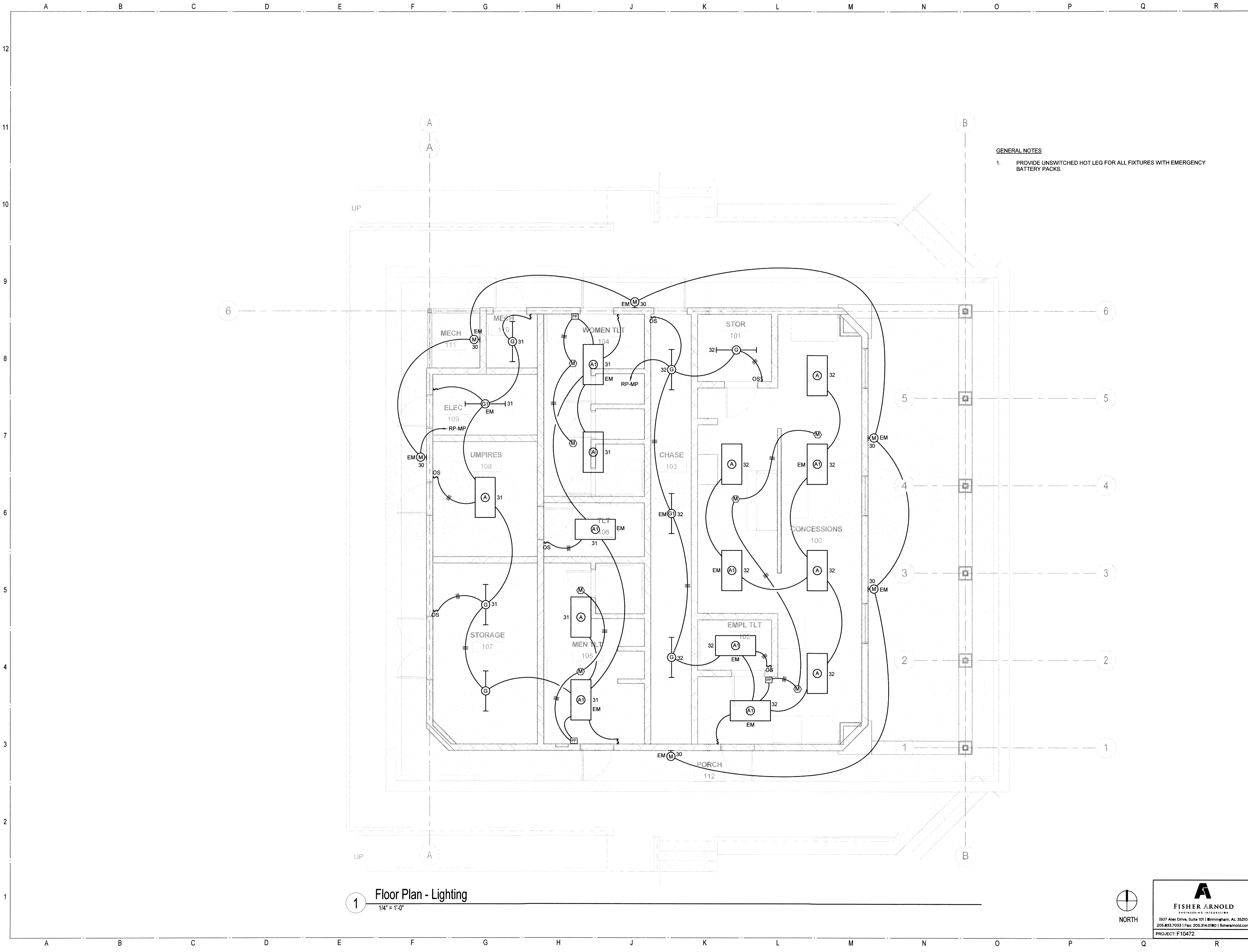
Rev.	Date	Revision Description



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Project No: F10472  
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Checked By: JK

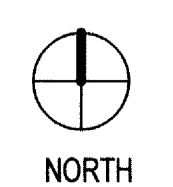
Sheet Title:  
**SITE PLAN -  
ELECTRICAL**

**E105**



**GENERAL NOTES:**  
 1. PROVIDE UNSWITCHED HOT LEG FOR ALL FIXTURES WITH EMERGENCY BATTERY PACKS.

**1** Floor Plan - Lighting  
 1/4" = 1'-0"



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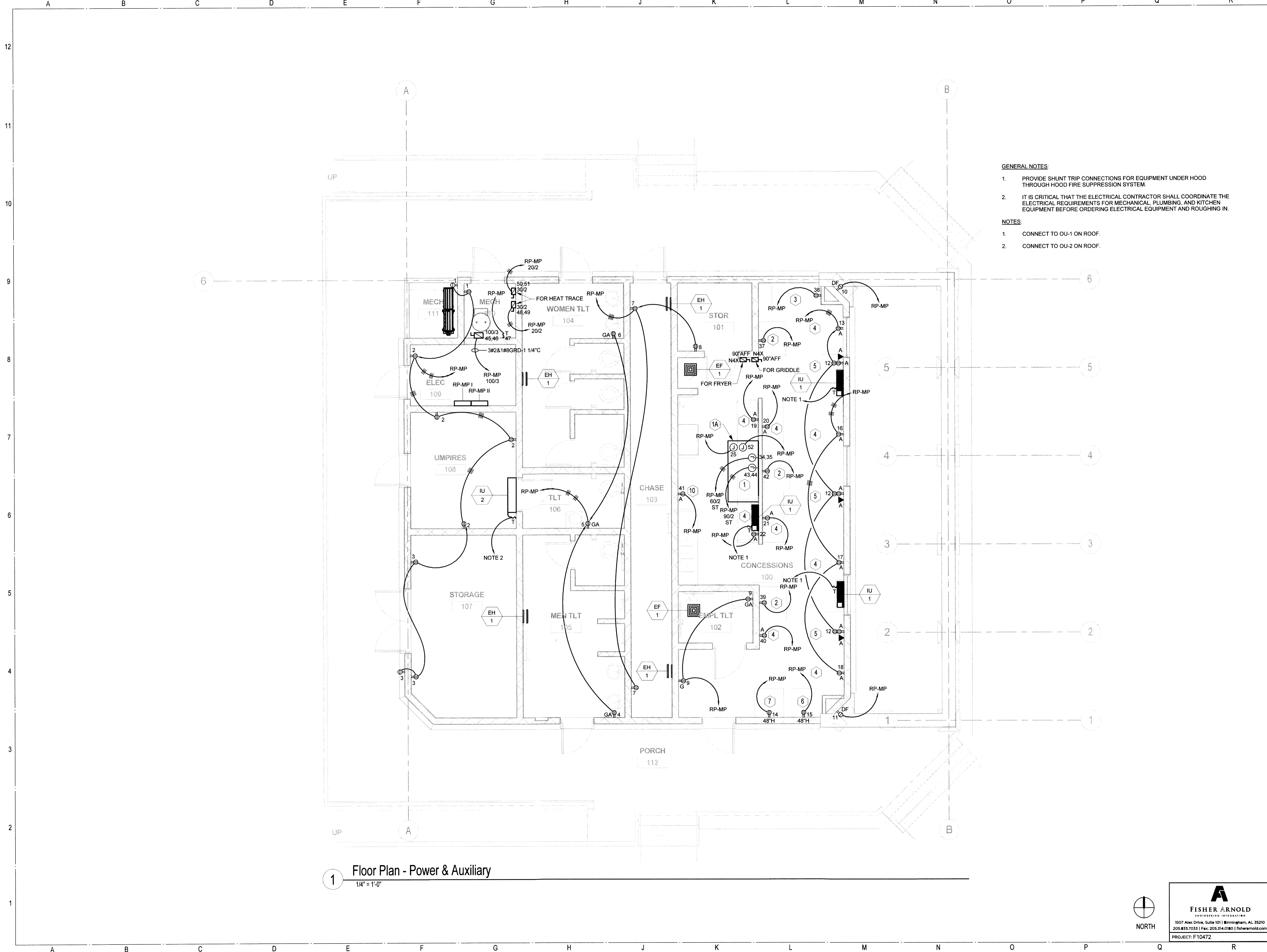


Issue Date: 8/18/2017  
 Project No: F10472  
 Drawn By: Author  
 Checked By: Checker  
 Sheet Title:

**FLOOR PLAN -  
 LIGHTING**


**E200**






- GENERAL NOTES:**
- PROVIDE SHUNT TRIP CONNECTIONS FOR EQUIPMENT UNDER HOOD THROUGH HOOD FIRE SUPPRESSION SYSTEM.
  - IT IS CRITICAL THAT THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS FOR MECHANICAL, PLUMBING, AND KITCHEN EQUIPMENT BEFORE ORDERING ELECTRICAL EQUIPMENT AND ROUGHING IN.
- NOTES:**
- CONNECT TO OU-1 ON ROOF.
  - CONNECT TO OU-2 ON ROOF.

1 Floor Plan - Power & Auxiliary  
1/4" = 1'-0"

  
 NORTH


  
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**CITY OF JONESBORO**  
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Rev.	Date	Revision Description

Seal



Issue Date: 8/18/2017  
 Project No: F10472  
 Drawn By: Author  
 Checked By: Checker  
 Sheet Title:

**FLOOR PLAN -**  
**POWER &**  
**AUXILIARY**

E300

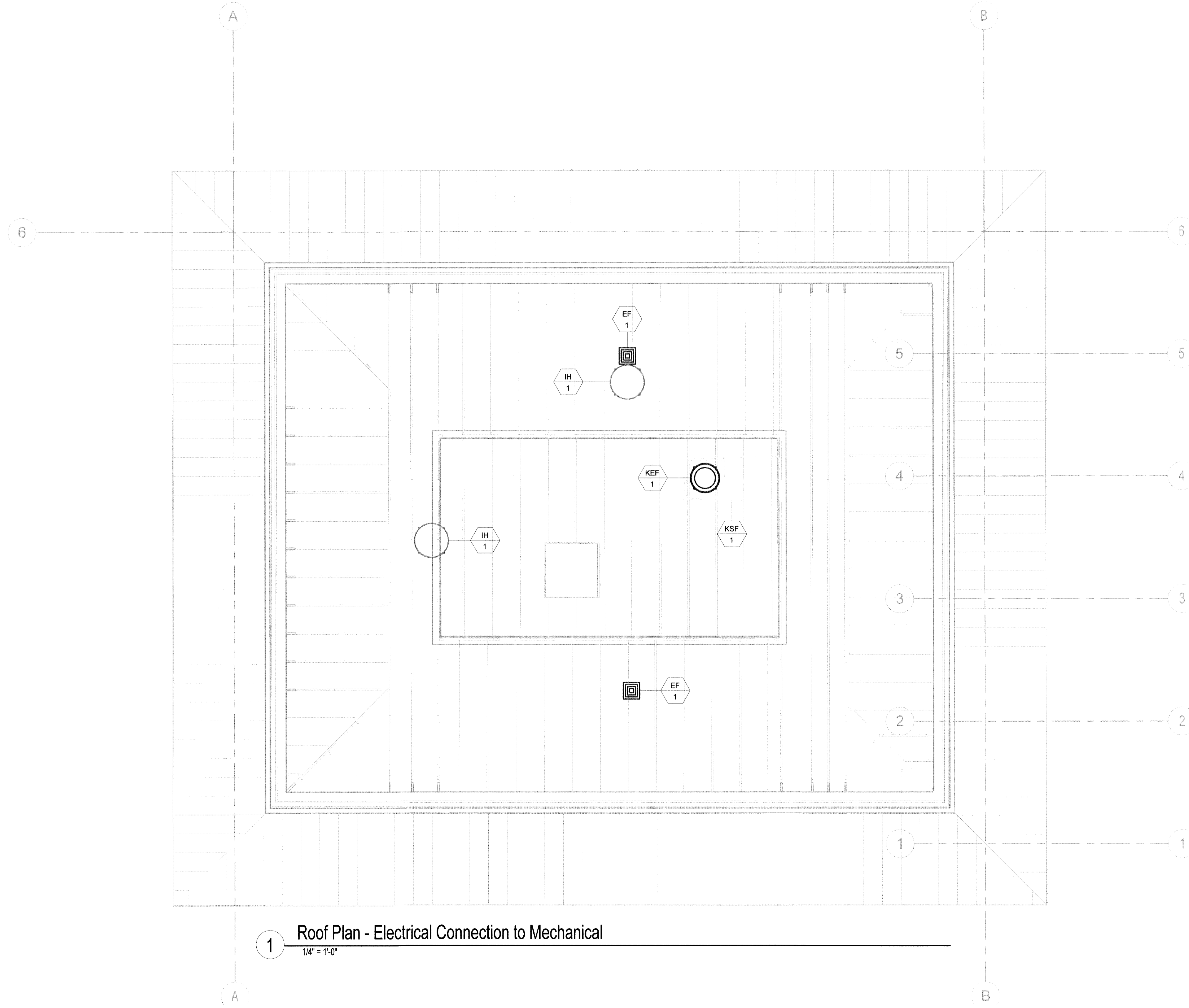
### ELECTRICAL CONNECTION TO MECHANICAL SCHEDULE

MARK	KW	HP	FLA	VOLTAGE	MCA	MOCP	CONDUCTORS & CONDUIT	DISCONNECT SWITCH & FUSE	SOURCE OF FEED	REMARKS
KEF-1	-	1/3	7.2	120V	9.0	15/1	2#12&1#12GRD-3/4"C	\$T	RP-MP	1
KSF-1	0.83	-	-	120V	-	20/1	2#12&1#12GRD-3/4"C	\$T	RP-MP	1
OU-1	-	-	14.6	240V,1Ø	18.3	20/2	3#12&1#12GRD-3/4"C	30/2, F20	RP-MP	1
OU-2	-	-	6.3	240V,1Ø	7.9	15/2	3#12&1#12GRD-3/4"C	30/2, F15	RP-MP	1
EF-1	0.015	-	-	120V	-	20/1	2#12&1#12GRD-3/4"C	\$T	RP-MP	1
EF-2	-	1/10	4.4	120V	5.5	20/1	2#12&1#12GRD-3/4"C	\$T	RP-MP	1
EH-1	3.0	-	14.5	240V,1Ø	18.1	20/2	3#12&1#12GRD-3/4"C	30/2, F20	RP-MP	1

ABBREVIATIONS: FLA - FULL LOAD AMPERE    MCA - MINIMUM CIRCUIT AMPERE    MOCP - MAXIMUM OVER CURRENT PROTECTION  
 RT - RAINTIGHT    F-FUSE

**GENERAL NOTES:**

1. HVAC UNITS AND EQUIPMENT LOCATIONS SHOWN HERE ARE FOR INFORMATION ONLY. FIELD VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR LOCATIONS OF ALL HVAC UNITS AND EQUIPMENT. COORDINATE LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH DUCTWORK AND PIPING. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET THE WORK SPACE AND DEDICATED SPACE REQUIREMENTS PER THE NEC.
2. SEE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ELECTRICAL CONNECTION REQUIREMENTS.
3. PROVIDE HACR RATED BREAKERS FOR HVAC EQUIPMENT.
4. COORDINATE WITH HVAC CONTRACTOR FOR EQUIPMENT STARTERS TO BE FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL CONTRACTOR.



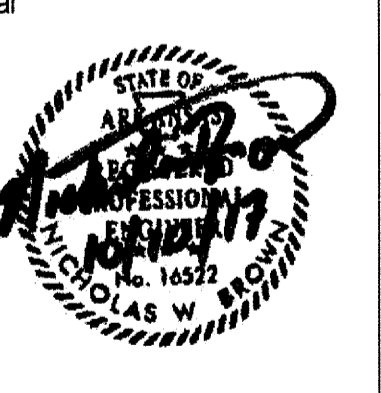
**1** Roof Plan - Electrical Connection to Mechanical  
 1/4" = 1'-0"

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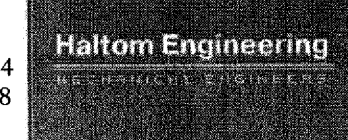


Issue Date: 8/18/2017  
 Project No: F10472  
 Drawn By: AL  
 Checked By: JK  
 Sheet Title:

ROOF PLAN -  
 ELEC. CONN.  
 TO MECH.

E400



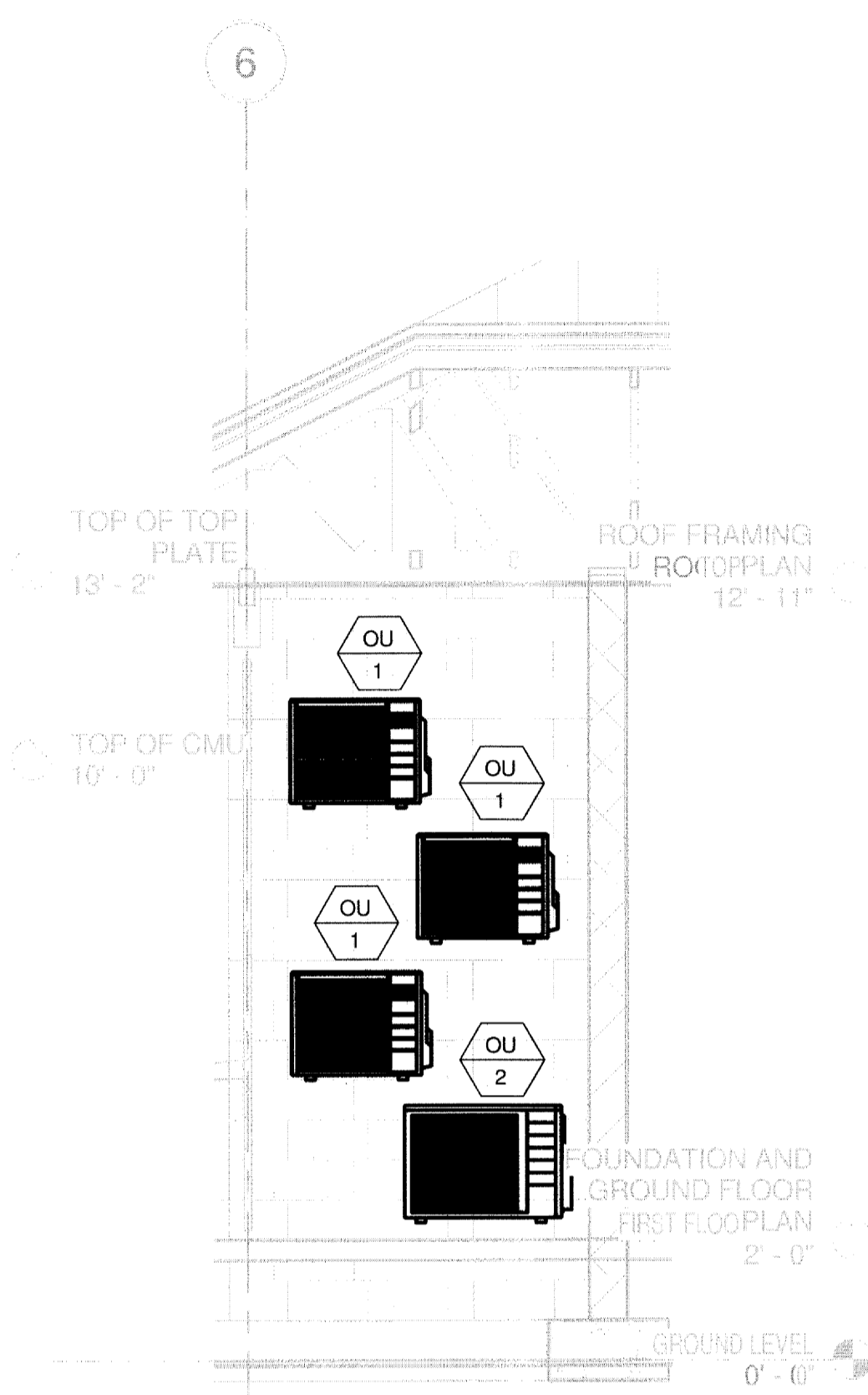


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Seal  
  
 Issue Date: 10/06/2017  
 Project No: F10472  
 Drawn By: JL  
 Checked By: JH  
 Sheet Title:

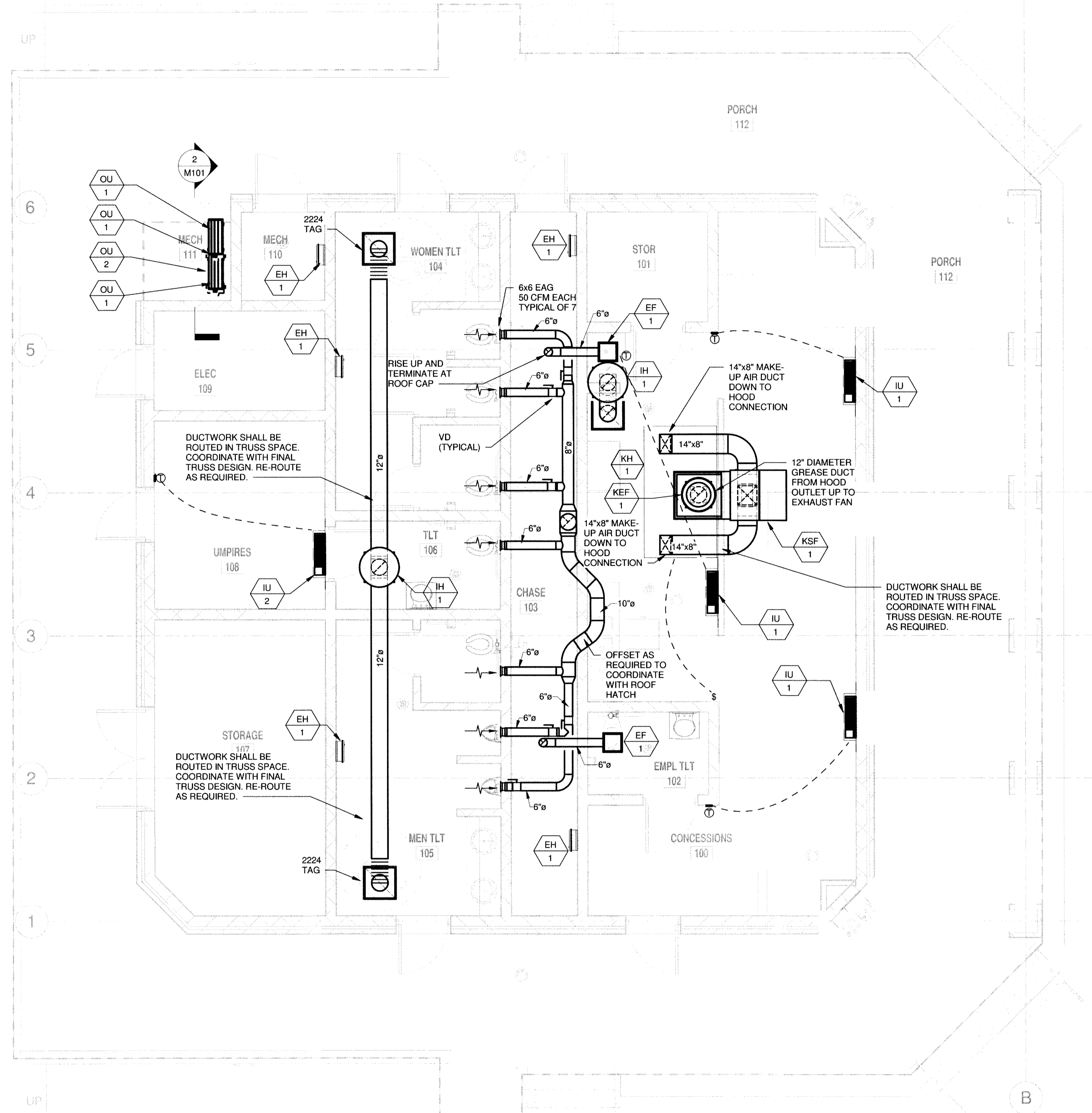
**FLOOR PLAN - HVAC**  
**M101**



**2 OU SECTION - HVAC**  
 3/8" = 1'-0"

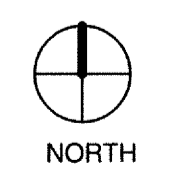
**CONSTRUCTION NOTES:**

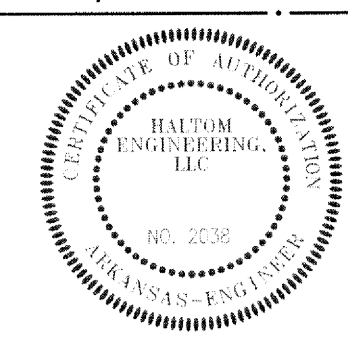
- ALL GREASE DUCT SHALL BE CONSTRUCTED OF WELDED MINIMUM 18 GAUGE STAINLESS STEEL OR BLACK IRON. PROVIDE GREASE RESERVOIRS WHERE REQUIRED. SLOPE ALL HORIZONTAL GREASE DUCTS AS REQUIRED PER LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE PROPER ACCESS DOORS LOCATED WHERE REQUIRED WITH HIGH TEMPERATURE GASKETS FOR CLEANING. WRAP GREASE EXHAUST DUCTWORK IN 3M FIRE BARRIER DUCT WRAP 615+ OR EQUIVALENT. USE TWO-LAYER GREASE DUCT APPLICATIONS MEETING ASTM E 2336 GIVING ZERO CLEARANCE TO COMBUSTIBLE CONSTRUCTION. WRAP MAKEUP AIR AND EXHAUST DUCTWORK WITH EXTERIOR DUCT WRAP FROM DEVICE CONNECTION TO ROOF CONNECTION.



**1 FLOOR PLAN - HVAC**  
 1/4" = 1'-0"

THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.



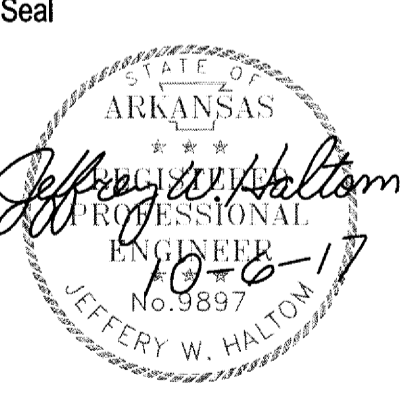


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Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH

Sheet Title:  
**SCHEDULES, LEGEND, AND NOTES - HVAC**

**M201**

### SPLIT SYSTEM HEAT PUMP – OUTDOOR UNIT SCHEDULE

EQUIPMENT NO.	SERVICE	HEATING CAPACITY (BTU/HR)	COOLING CAPACITY (BTU/HR)	SEER	ELECTRICAL			MINIMUM CIRCUIT AMPS	MAXIMUM FUSE SIZE	MANUFACTURER & MODEL	WEIGHT LBS.	NOTES
					VOLT.-PH.-CY.	LIQUID	SUCTION					
OU-1	IU-1	24000	21200	18	208/1/60	1/4	5/8	18.3	20	DAIKIN - RX24NMVJU	108	1,2
OU-2	IU-2	9000	7650	15	208/1/60	1/4	3/8	7.9	15	DAIKIN - RXN09NMVJU	55	1,2

**NOTES:**  
 1. PROVIDE WALL MOUNTED THERMOSTAT.  
 2. PROVIDE DISCONNECT SWITCH. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.  
 3. ROUTE AND SIZE REFRIGERANT LINE PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REFRIGERANT SHALL BE R-410A. PROVIDE REFRIGERANT CHARGE BASED ON FIELD MEASURED DIMENSIONS OF REFRIGERANT PIPING AS INSTALLED.

### SPLIT SYSTEM HEAT PUMP – INDOOR UNIT SCHEDULE

EQUIPMENT NO.	SERVICE	SUPPLY CFM	MIN. O.A. AIR CFM	TOTAL COOLING CAPACITY (BTU/HR.)	SENSIBLE COOLING CAPACITY (BTU/HR.)	HEAT PUMP HEATING CAPACITY (BTU/HR.)	ELECTRICAL		MANUFACTURER & MODEL	WEIGHT LBS.	NOTES
							VOLT.-PH.-CY.	AMPS/MOCP			
IU-1	100 CONCESSION	713	-	21200	17000	24000	208/1/60	NOTE 2	DAIKIN - FTX24NMVJU	27	1,2, WALL MOUNTED
IU-2	108 UMPIRES	703	-	9000	7650	24000	208/1/60	NOTE 2	DAIKIN - FTXN09NMVJU	18	1,2, WALL MOUNTED

**NOTES:**  
 1. PROVIDE CONDENSATE PUMP, CONDENSATE OVER FLOW SWITCH, AND INSTALL WALL MOUNTED WIRED THERMOSTAT.  
 2. IU-1 POWERED FROM OUTDOOR UNIT.  
 3. CONTRACTOR TO PROVIDE SHOP DRAWINGS & SIZE FINAL LINE-SET PER MANUFACTURER'S INSTRUCTIONS. MAX REFRIGERANT LINE LENGTH IS 95 FEET, MAX VERTICAL LIFT IS 65 FEET.  
 4. AIRFLOWS LISTED INDICATE HIGH SPEED SETTING OF MOTOR. MINIMUM EXTERNAL STATIC PRESSURE.  
 5. PROVIDE WITH WASHABLE FILTER WITH MILDEW PROOF RESIN.  
 6. PROVIDE DISCONNECT WITHIN SIX FEET (6') FROM SERVICE SIDE OF THE EQUIPMENT.  
 7. THE STANDARD CONDENSATE PUMP HAS APPROXIMATELY 22" OF LIFT. CONTRACTOR SHALL FIELD VERIFY ANY FIELD CONDITION REQUIRING MORE LIFT. IN THOSE CASES, THE CONTRACTOR SHALL PROVIDE A CONDENSATE PUMP CAPABLE OF THE ADDITIONAL LIFT AS DETERMINED BY FIELD CONDITIONS.

### FANS AND VENTILATOR SCHEDULE

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR				MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
					WATTS	HP	RPM	VOLT.-PH.-CY.		
KEF-1	HOOD EXHAUST	ROOF MOUNTED	1348	0.675	-	1/3	1725	120-1-60	GREENHECK CUBE-121-3	SEE NOTES BELOW
KSF-1	HOOD MAKEUP	ROOF MOUNTED	1078	0.405	830	-	1280	120-1-60	GREENHECK KSF-80-H08-01	SEE NOTES BELOW INCLUDING 4 AND 5.
EF-1	J.C., EMPLOYEE	CEILING MOUNTED	50	0.250	15	-	654	120-1-60	GREENHECK SP-870	SEE NOTES BELOW INCLUDING 6.
EF-2	PUBLIC & UMPIRE	ROOF MOUNTED	350	0.330	-	1/10	1725	120-1-60	GREENHECK G-080-VG	SEE NOTES BELOW INCLUDING 7.
IH-1	PUBLIC & UMPIRE INTAKE HOOD	ROOF MOUNTED	350	0.031	-	-	-	-	GREENHECK GRSI 12"	SEE NOTES BELOW INCLUDING 8.

**NOTE:**  
 1. PROVIDE A BELT DRIVE UP-BLAST CENTRIFUGAL ROOF EXHAUST FAN AS SCHEDULED ABOVE. SHALL MEET UL 762 LISTED POWER VENTILATORS FOR REST. EXH. APPLIANCES.  
 2. PROVIDE A NEMA-1 TOGGLE DISCONNECT, JUNCTION BOX MOUNTED AND WIRED, CURB EXTENSION VCE-19-G15.25, HINGED BRACKET KIT, GREASE TRAP, HEAT Baffle.  
 3. NOTE THE ROOF IS SLOPE METAL STANDING SEAM. SEE ARCHITECTURAL DRAWINGS FOR PITCH TO MATCH SLOPE.  
 4. KSF-1 SHALL INCLUDE AN ALUMINUM MESH WEATHER-HOOD WITH INLET DAMPER, OUTDOOR AIR INTAKE, DISCHARGE ON THE BOTTOM, GALVANIZED COATING, SPEED CONTROLLER, MOUNTING ON A CURB. GPI-33.5/60-G12 MATCHING ROOF SLOPE WITH 1" INSULATION ON COMBO CURB. FAN SHALL HAVE REMOVABLE ACCESS PANELS, NEOPRENE VIBRATION ISOLATORS, MOTOR PULLEYS SHALL BE ADJUSTABLE, ROOF CURB, PERMANENTLY LUBRICATED BALL BEARINGS, AND STATIC FREE BELTS.  
 5. PROVIDE FAN PACK EXTENSION OF GALVANIZED STEEL FOR UP-BLAST FAN AND MAKE-UP AIR UNIT ON COMMON CURB WITH VENTED EXHAUST FAN EXTENSION.  
 6. PROVIDE SPEED-CONTROLLER FOR EACH FAN, GRAVITY BACKDRAFT DAMPER AND OUTLET OF FAN, MOTOR WITH TOL, UL 507 LISTING, DESIGNER GRILLE, ROUND DUCT CONNECTION, ENERGY STAR RATING, & INTERLOCK TO LIGHT SWITCH FOR TOILET EXHAUST. ON JANITOR'S CLOSET PROVIDE A DEDICATED SWITCH TO LEAVE THE FAN ON WHEN NEEDED.  
 7. PROVIDE BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, AND SLOPED ROOF CURB FOR STANDING SEAM METAL ROOFING.  
 8. PROVIDE GALVANIZED BIRDSCREEN, SLOPED ROOF CURB, GRAVITY BACKDRAFT DAMPER WITH COUNTERBALANCED WEIGHT ADJUSTED FOR MINIMUM PRESSURE DROP ENTERING THE BUILDING, AND HOOD INSULATION.

### AIR DISTRIBUTION SCHEDULE

TYPE	MFR. & MODEL	REMARKS
EAG	NAILOR 6155H	EXHAUST AIR GRILLE, FIXED LOUVERS (FULL FACE, NO FILLER PANELS), 1/2" SPACING AT 45° DEFLECTION. STEEL CONSTRUCTION, FRAME FOR LAY-IN CEILING AND OBD OPPOSED BLADE DAMPER. INSTALL INVERTED IN A SITE PROOF CONFIGURATION.
TAG	NAILOR 4360	TRANSFER AIR GRILLE, FLUSH PERFORATED FACE, STEEL CONSTRUCTION WITH ROUND NECK DUCT CONNECTION AND 4675 BUTTERFLY DAMPER.

**NOTES:**  
 1. ALL DEVICES ARE TO MATCH CEILING FRAME TYPE WHERE INSTALLED. CONTRACTOR IS TO CONFIRM CEILING TYPES BEFORE ORDERING AIR DISTRIBUTION DEVICES.  
 2. COLOR AND FINISH OF ALL AIR DISTRIBUTION SHALL MATCH ADJACENT SURFACE, OR AS DIRECTED BY THE ARCHITECT.  
 3. COORDINATE FINAL AIR DISTRIBUTION LOCATION AND ELEVATION, INCLUDING WALL MOUNTED GRILLES, WITH ARCHITECT AND ARCHITECTURAL PLANS BEFORE INSTALLATION.

### CONSTRUCTION NOTES

- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS.

### HVAC CODE COMPLIANCE NOTES

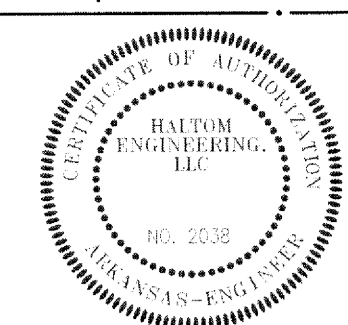
- EVERY APPLIANCE SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS AND SERVICE PER IMC 303.
- EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION. PER IMC 304.1.
- PERMITS SHALL BE APPLIED FOR BY A LICENSED MECHANICAL, GAS OR FIRE PROTECTION CONTRACTOR PER IMC 105.1.1.

### HVAC GENERAL NOTES

- ALL DUCTWORK ASSOCIATED WITH THE MECHANICAL SYSTEMS SHALL BE INSTALLED AND SECURED PER APPLICABLE BUILDING CODES. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT INSTALLED ABOVE HARD CEILINGS OR IN FURRED CHASES REQUIRING ACCESS, SUCH AS FIRE DAMPERS, VOLUME DAMPERS, PIPING VALVES, ETC.
- MECHANICAL CONTRACTOR SHALL COORDINATE AIR DISTRIBUTION DEVICE LAYOUT WITH DIVISION 16 AND ARCHITECTURAL REFLECTED CEILING PLANS. LIGHT FIXTURE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS TAKE PRIORITY OVER AIR DISTRIBUTION DEVICE LOCATIONS.
- MECHANICAL CONTRACTOR SHALL INSTALL VOLUME DAMPERS IN AIR DUCTS TO NEW SUPPLY, RETURN, AND EXHAUST GRILLES. VOLUME DAMPERS SHALL BE LOCATED FOR ACCESS FROM LAY-IN CEILING OR ACCESS DOORS, WHERE GYP CEILINGS ARE INSTALLED.
- THERMOSTAT HEIGHT SHALL BE 4'-0" ABOVE FINISHED FLOOR, AND SHALL BE ALIGNED WITH LIGHT SWITCH WHERE SHOWN AT THE SAME LOCATION.
- MANUAL BALANCING DAMPERS TO BE LOCATED WHERE OPERATORS ARE ACCESSIBLE.
- DUCT DIMENSIONS SHOWN FOR RECTANGULAR DUCTWORK ARE SHEET METAL SIZES. DIMENSION SHOWN FOR ROUND DUCTWORK ARE NET INSIDE DIMENSION.
- LOW PRESSURE DUCT RUNOUTS FROM RECTANGULAR DUCTS TO DIFFUSERS SHALL BE FLEXIBLE ROUND AND 4'-0" MAXIMUM LENGTH, AND SHALL HAVE SAME DIAMETER AS DIFFUSER NECK UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE CONNECTIONS TO DUCTWORK.
- COORDINATE EXACT LOCATION OF ALL PIPING AND DUCT PENETRATIONS OF WALLS WITH STRUCTURAL BRACING.
- DUCT LOCATIONS THROUGH MASONRY PARTITIONS AND BEARING WALLS MUST BE COORDINATED WITH OTHER OPENINGS AND WALL REINFORCING REQUIREMENTS SO THAT STRENGTH OF WALL IS NOT IMPAIRED.
- MATCH EXISTING MATERIALS AND INSULATION AND OTHER EQUIPMENT DURING RENOVATION.

### LEGEND & ABBREVIATIONS

CO	CLEANOUT
⬠	KEY NOTES
D	CONDENSATE DRAIN ABOVE FLOOR OR GRADE (COND)
T	THERMOSTAT LOCATED AT 48" AFF
⬠	CONNECT NEW TO EXISTING
R	REFRIGERANT PIPING (LIQUID AND SUCTION)



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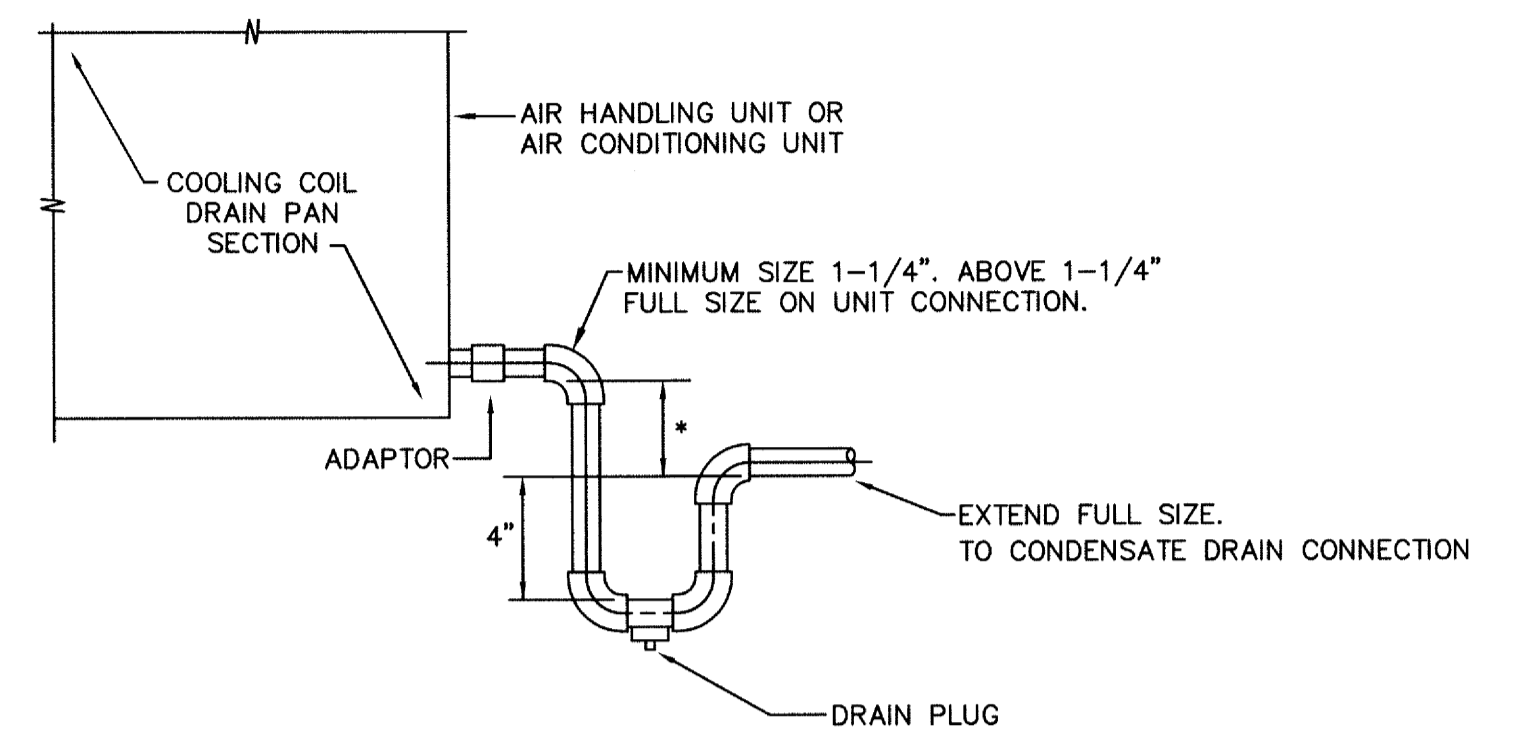
### KITCHEN EXHAUST HOOD SCHEDULE



EQUIPMENT NO.	SERVICE	EXHAUST AIR (CFM)	MAKE-UP AIR (CFM)	LENGTH (IN.)	WIDTH (IN.)	STATIC PRESSURE DROP (IN. W.G.)	HEIGHT (IN.)	MATERIAL OF CONSTRUCTION	FILTERS	LAMPS	ELECTRICAL		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
											V.-PH.-CY.	AMPS		
H-1	100 CONCESSIONS	1348	1078	84	39	MAX. 0.43	24	403SS EXPOSED	SS BAFFLE	2 CFL'S	120-1-60	20	GREENHECK GHEW-84.00-S	SEE NOTES BELOW

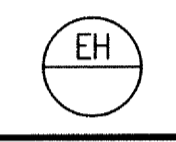
**NOTES:**

- HOOD IS A TYPE 1, BAFFLE FILTER SINGLE WALL EXHAUST CANOPY UL710 LISTED WITHOUT EXHAUST FIRE DAMPERS.
- PROVIDE AN EXTERNAL SUPPLY PLENUM AIR CURTAIN SUPPLY THAT IS 96" X 14" X 10" IN HEIGHT 1078 CFM OF MAKEUP AIR WITH A MAXIMUM ASP PRESSURE DROP OF 0.08" WG. INSULATE THIS SUPPLY PLENUM. THE ASP PLENUM SHALL HAVE TWO 16X10 DUCT COLLARS FACTORY MOUNTED. SUPPLY PLENUM SHALL INSTALL FLUSH WITH TOP OF HOOD.
- PROVIDE AN EXHAUST HOOD SIZE NOTED ABOVE WITH ONE EXHAUST COLLAR OF 13X9 SIDE FACTORY MOUNTED.
- PROVIDE A UTILITY CABINET MOUNTED ON THE RIGHT SIDE. CABINET SHALL INCLUDE ANSUL R102 SYSTEM, TANK, CONTROL CENTER FOR ALL FANS. COORDINATE WITH FIELD CONDITIONS AND WITH THE MECHANICAL CONTRACTOR.
- SIZING IS BASED ON HOOD CAPTURE AREA WITH OVERHANG ON ALL SIDES, MIN. 6" OVERHANG ALL SIDES.
- INSTALL APPROXIMATELY 80" AFF. COMPLY WITH ALL THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE BUILT-INTO HOOD AND CONTROL CABINET AN ANSUL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEM WITH 3-GALLON SIZE, AND SHUNT TRIP FOR ELECTRICAL DEVICES BENEATH HOOD, PROVIDE HIGH TEMPERATURE METAL CAPS TO PROTECT AND KEEP THE NOZZLES CLEAN.
- PROVIDE KFCC-1 KITCHEN FAN CONTROL CENTER MOUNTED ON HOOD AS STATED ABOVE. UL LISTED TO STANDARD 891, 12X20X6 ENCLOSURE, FAN STARTERS WITH OVERLOADS, PREWIRED WITH WIRING DIAGRAM. TEMPERATURE INTERLOCK SHALL INCLUDE MICRO-CONTROLLER WITH DIGITAL DISPLAY FOR ACCURATE TEMPERATURE SET POINT. PROVIDE TEMPERATURE INTERLOCKS TO COMPLY WITH IMC 507.1.1. PROVIDE FAN CONTROL, LIGHT SWITCHES, FIRE MODE CONTROLS, FIRE SYSTEM MICRO SWITCH FACTORY WIRED TO CONTROL PANEL, AND TEMP INTERLOCK SENSORS.



**CONDENSATE DRAIN DETAIL**  
NO SCALE

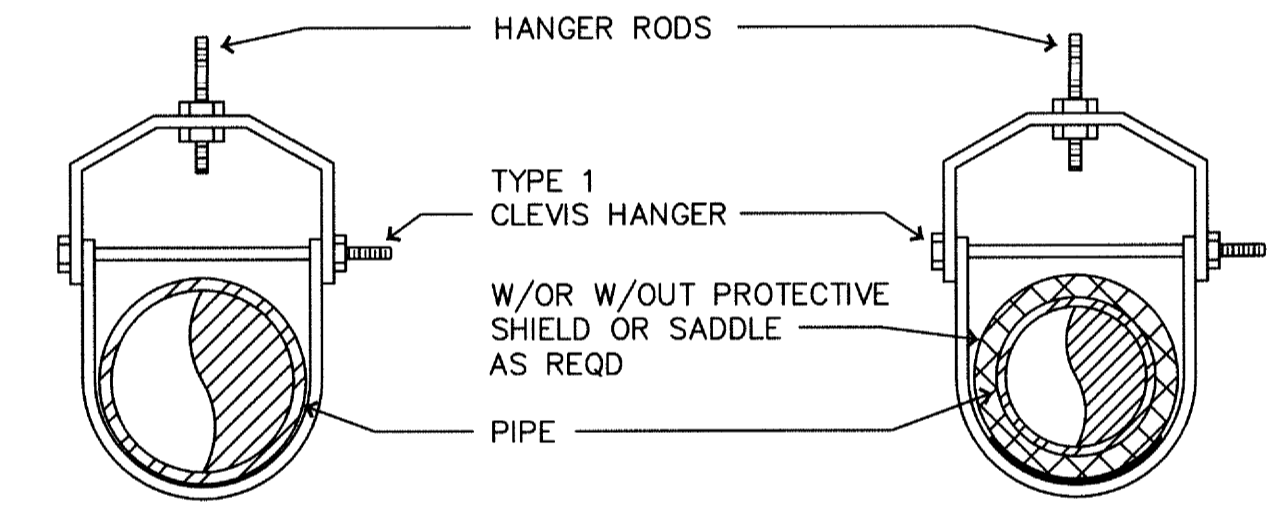
### ELECTRIC HEATER SCHEDULE



EQUIPMENT NO.	FAN			ELECTRIC HEATER		ELECTRICAL REQUIREMENTS		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
	RATED CFM	HP	RPM	KW	AIR TEMP. RISE (°F)	V.-PH.-CY.	FULL LOAD AMPS		
EH-1	100	-	-	3.0	-	240-1-60	14.5	BERKO FRM4024	SEE NOTES.

**NOTE:**

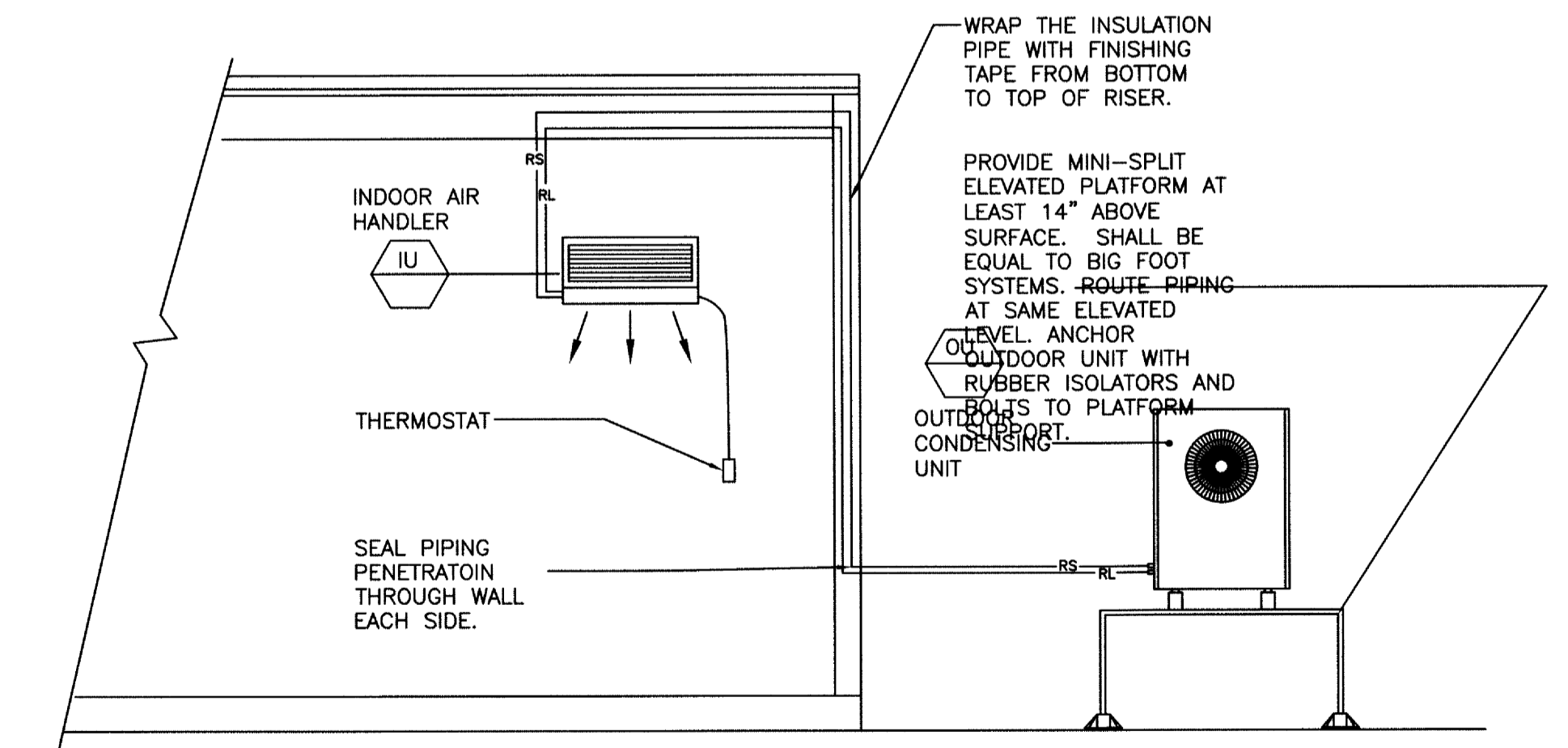
- COMMERCIAL FAN-FORCED WALL HEATER WITH DISCONNECT, SURFACE OR RECESSED MOUNTING HARDWARE, BUILT-IN THERMOSTAT, THERMAL CUTOUT, FAN DELAY, AND ON/OFF SWITCH.



**SINGLE PIPE TYPE 1 CLEVIS HANGER**  
NO SCALE

### MECHANICAL SPECIFICATIONS

- SCOPE OF WORK**
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
  - ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE 2012, ALL LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
  - THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
  - ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER.
- PERMITS**
  - THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
- SHOP DRAWINGS**
  - SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
- PROJECT RECORD DOCUMENTS**
  - PROVIDE RECORD DRAWINGS INDICATING FINAL PLUMBING AND HVAC SYSTEMS. CONTRACTOR SHALL PROVIDE RECORD DRAWING IN AUTOCAD RELEASE 2013 FORMAT AND (1) SET OF HARD COPY. SHEET LAYOUT SHALL MATCH CONTRACT DOCUMENTS.
- SEISMIC DESIGN**
  - MECHANICAL AND PLUMBING SYSTEMS SHALL BE BRACED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL CODE REQUIREMENTS IN ADDITION TO BRACING INDICATED ON THE DOCUMENTS.
- REFRIGERENT PIPING**
  - CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE BOTH LIQUID AND SUCTION REFRIGERANT LINES WITH ARMA-FLEX INSULATION USING WEATHER-PROOF COATING ON OUTSIDE LINES. INSTALL PIPE CLAMPS OVER OUTSIDE OF INSULATION TO MINIMIZE NOISE AND VIBRATION TRANSFERENCE.
- DUCTWORK**
  - NOT APPLICABLE.
- DRAINAGE PIPING (CONDENSATE)**
  - SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". PROVIDE 1/2" TUBULAR CLOSED CELL INSULATION EQUAL TO HALSTEAD WITH "K" VALUE OF 0.255 AT 75F.
- ELECTRICAL**
  - CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.
- PIPE SUPPORTS**
  - ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.
- MINI-SPLIT SYSTEMS**
  - VARIABLE CAPACITY HEAT PUMP AIR CONDITIONING SYSTEM SHALL BE EQUAL TO MODEL SPECIFIED HEATING AND COOLING MODEL SPLIT SYSTEM. THE SYSTEM SHALL CONSIST OF A WALL MOUNTED EVAPORATOR MATCH TO OUTDOOR MODEL.
  - THE OUTDOOR SHALL HAVE HORIZONTAL DISCHARGE VARIABLE SPEED SINGLE FAN UNIT USING SINGLE PHASE POWER.
  - PROVIDE A 1-YEAR COMPLETE WARRANTY FOR DATE OF SUBSTANTIAL COMPLETION. PROVIDE A 2-YEAR PARTS WARRANTY.
  - INDOOR UNIT SHALL BE FACTORY ASSEMBLED AND PRE-WIRED WITH ALL NECESSARY ELECTRONIC AND REFRIGERANT CONTROLS. BOTH LIQUID AND SUCTION LINES SHALL BE INDIVIDUALLY INSULATED BETWEEN THE OUTDOOR AND INDOOR UNITS.
  - RETURN AIR FILTER SHALL BE PROVIDED WITH MILDEW PROOF, REMOVABLE AND WASHABLE FILTER. COIL SHALL BE ALUMINUM FIN ON COPPER TUBE HEAT EXCHANGER.
  - PROVIDE WIRED THERMOSTAT FOR COOLING, HEATING, AUTOMATIC, DRY OPERATION AND FAN ONLY OPERATION WITH 7-DAY PROGRAMMABLE CAPABILITY.
  - THE OUTDOOR UNIT SHALL BE MATCHED TO INDOOR UNIT FACTORY ASSEMBLED AND PRE-WIRED WITH ALL NECESSARY ELECTRONIC AND REFRIGERANT CONTROLS.
- MISCELLANEOUS**
  - COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
  - DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
  - THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAM-MATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
  - GREASE EXHAUST SHALL BE WITHOUT DIPS AND TRAPS AND COMPLY WITH NFPA 96. DUCT EXPOSED TO VIEW SHALL BY TYPE 304 STAINLESS-STEEL SHEET NUMBER 3 FINISH. CONCEALED SHALL BE TYPE 304 STAINLESS-STEEL SHEET, NUMBER 20 FINISH. PROVIDE WELDED SEAMS AND JOINTS, PRESSURE CLASS NEGATIVE 3" WG, AIRTIGHT AND WATER TIGHT.
  - PROVIDE 3M FIRE WRAP RATED FOR ONE HOUSE FROM HOOD CONNECTION TO FAN INLET.
  - DUCT SHALL COMPLY WITH NFPA 80A. USE HARD DUCT EXCEPT FINAL 4-FEET TO CONNECTION CAN BE FLEXIBLE DUCTWORK. INSULATED THE DUCT RUNS IN THE ATTIC WITH 2" EXTERNAL WRAP WITH VAPOR BARRIER.
- TESTING AND BALANCING**
  - NOT REQUIRED.
- GUARANTEE**
  - MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
  - FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
- HVAC CONTROLS**
  - PACKAGED STAND-ALONE.



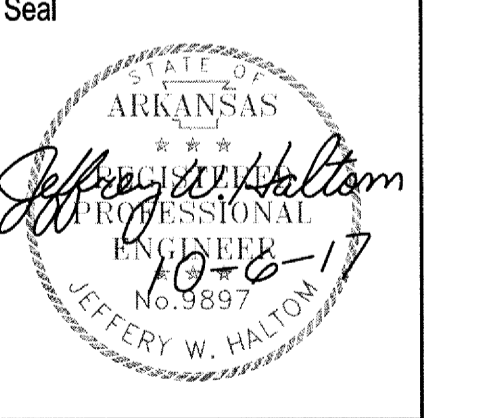
**DUCTLESS SPLIT-SYSTEM AIR HANDLING UNIT DETAIL**  
NO SCALE

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**CONCESSION BUILDING -**  
**CITY OF JONESBORO**  
JONESBORO, AR

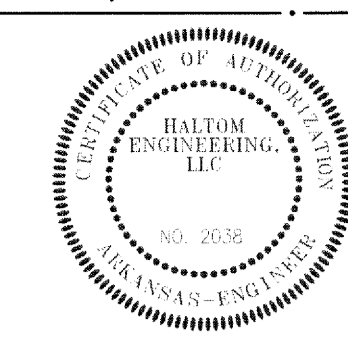
Rev.	Date	Revision Description



Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH

Sheet Title:  
**SCHEDULES AND LEGEND - HVAC**

**M202**

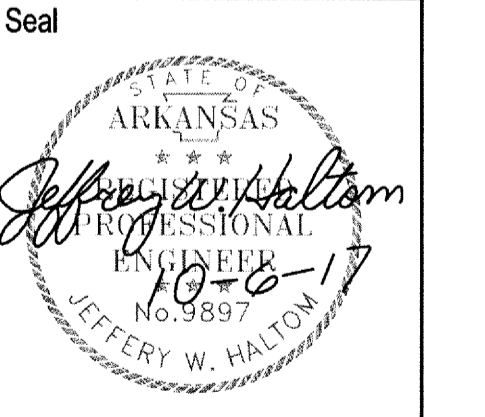


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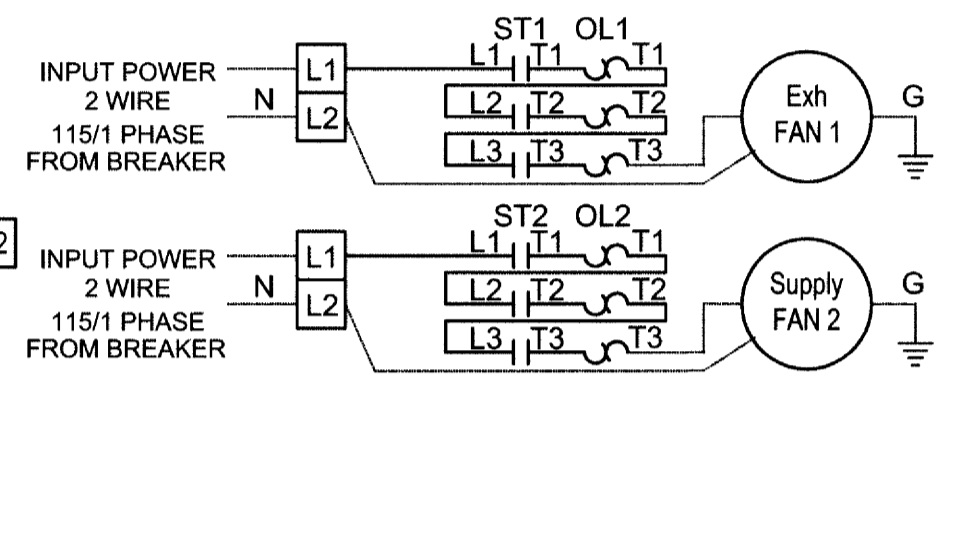
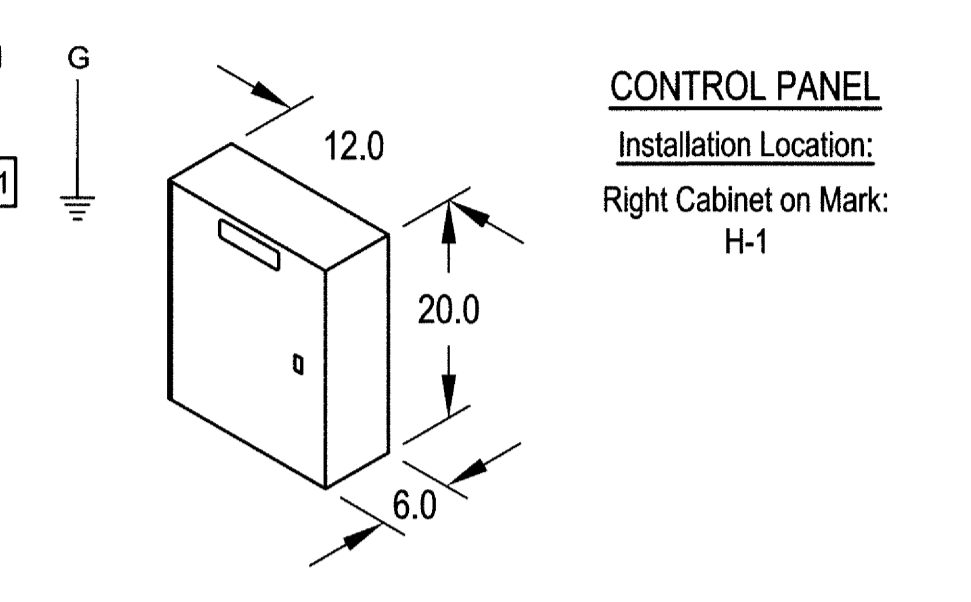
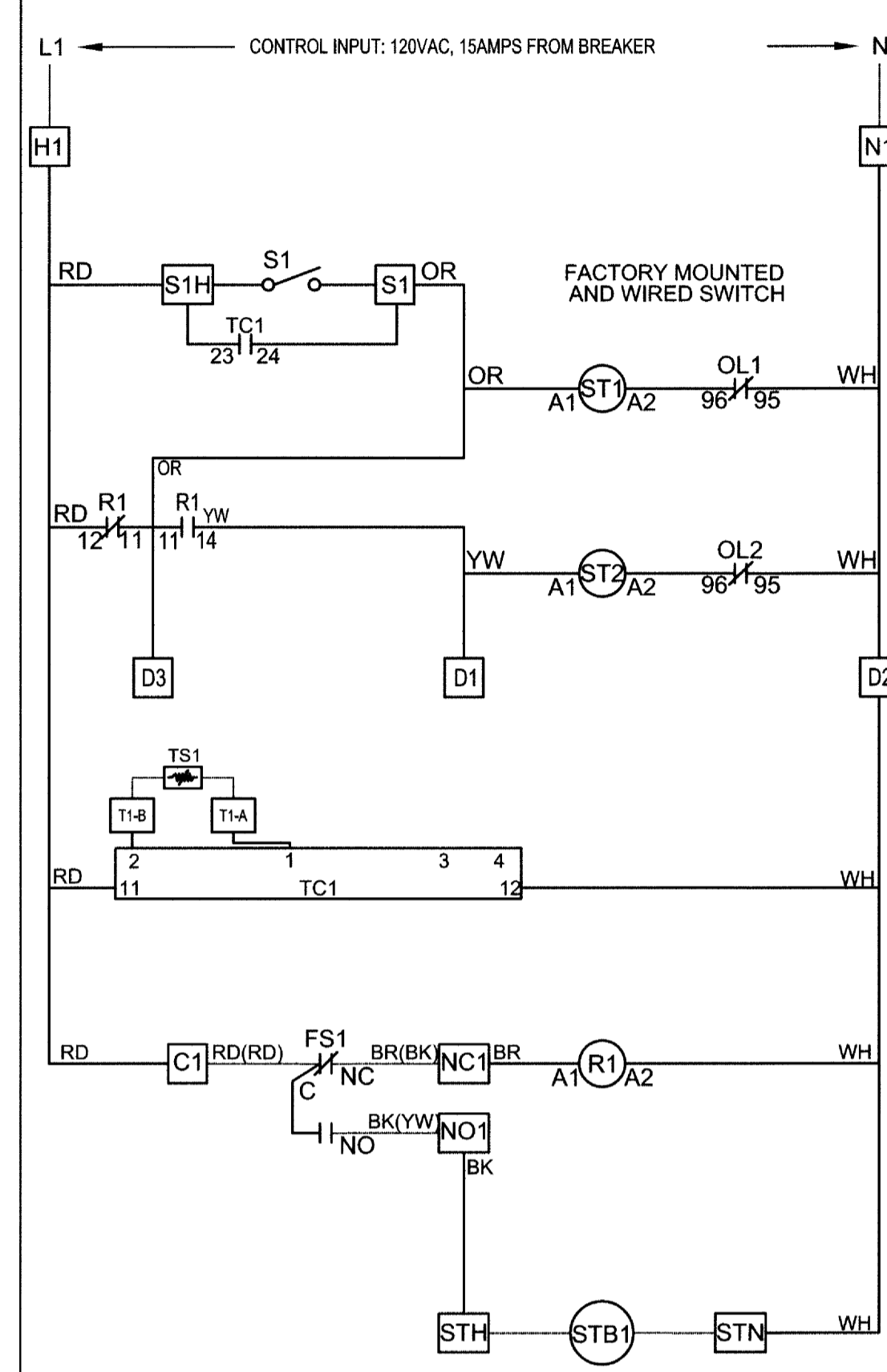
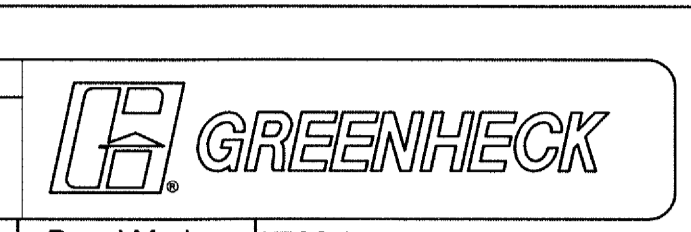


Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH  
 Sheet Title:

**DETAILS -**  
**HVAC**  
**M203**

**Kitchen Fan Control Center (KFCC)**  
**Electrical Prewire Package**  
**Jonesboro Concessions Building**

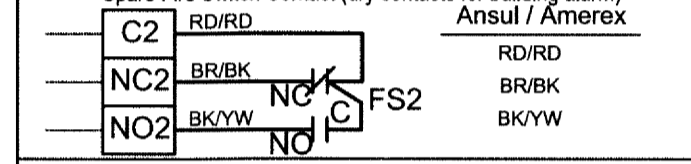
**SYSTEM DRAWING NOTE**  
 These drawings shall not be removed from this equipment.  
 For additional information call GREENHECK Fan Corp. at 1-800-371-6858



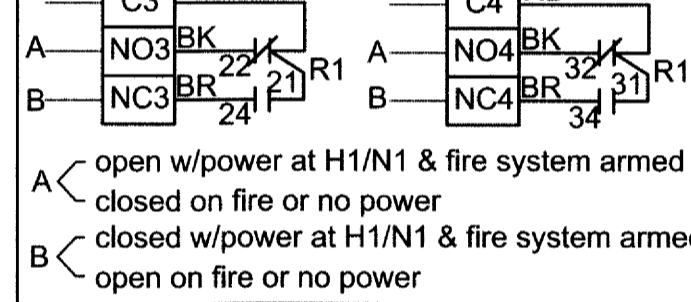
**Panel Mark:** KFCC-1  
**Hood Mark(s):**  
**Serial Number:**  
**Model:** KFCC

Motor	Fan Mark	HP	Volt	PH	FLA	Wire	Breaker
F1-E	KEF-1	0.33	115	1	7.2	14 ga	15 amp
F2-S	KSF-1	1	115	1	16.0	12 ga	20 amp

<input type="checkbox"/> Qty. Fan Switches (0-3)	<input type="checkbox"/> Exhaust In Fire
<input type="checkbox"/> Qty. Light Switches (0-3)	<input type="checkbox"/> MUA Interface
<input type="checkbox"/> Qty. Temp. Switches (0-1)	<input type="checkbox"/> Lights Out In Fire
<input type="checkbox"/> One Switch for L & F	<input type="checkbox"/> Fire Relay (#1)
<input type="checkbox"/> Digital Temperature Interlock	<input type="checkbox"/> Extra Fire Relay (#2)
<input type="checkbox"/> Mounted Sensors - Factory	<input type="checkbox"/> Extra Fire Relay (#3)
<input type="checkbox"/> Heat Switch/Temperature SW	<input type="checkbox"/> DPDT Relay w/SF
<input type="checkbox"/> Cool Switch	<input type="checkbox"/> DPDT Relay w/EF
<input type="checkbox"/> AD Switch	<input type="checkbox"/> Off Delay Relay
<input type="checkbox"/> Hood Switches	<input type="checkbox"/> SF Failure Light
<input type="checkbox"/> Audible Alarm	<input type="checkbox"/> EF Failure Light
<input type="checkbox"/> Gas Reset / Gas Off w/Fans	<input type="checkbox"/> Fan Failure Light (Appl.)
<input type="checkbox"/> Power for Gas Solenoid	<input type="checkbox"/> Aux. Supply Contact
<input type="checkbox"/> Power for Shunt Trip	<input type="checkbox"/> Tie in VVWCP



Spare Relay Contacts (activated by FS1)  
 (can be used for shunt trip, alarms, etc.)



A open w/power at H1/N1 & fire system armed  
 closed on fire or no power  
 B closed w/power at H1/N1 & fire system armed  
 open on fire or no power

**TORQUE:**  
 TERMINAL BLOCKS = 8 LB.IN  
 GROUNDING BLOCKS = 8 LB.IN

**FIELD WIRING:**  
 USE MINIMUM  
 60° Copper Wire

**LABEL DESCRIPTION**

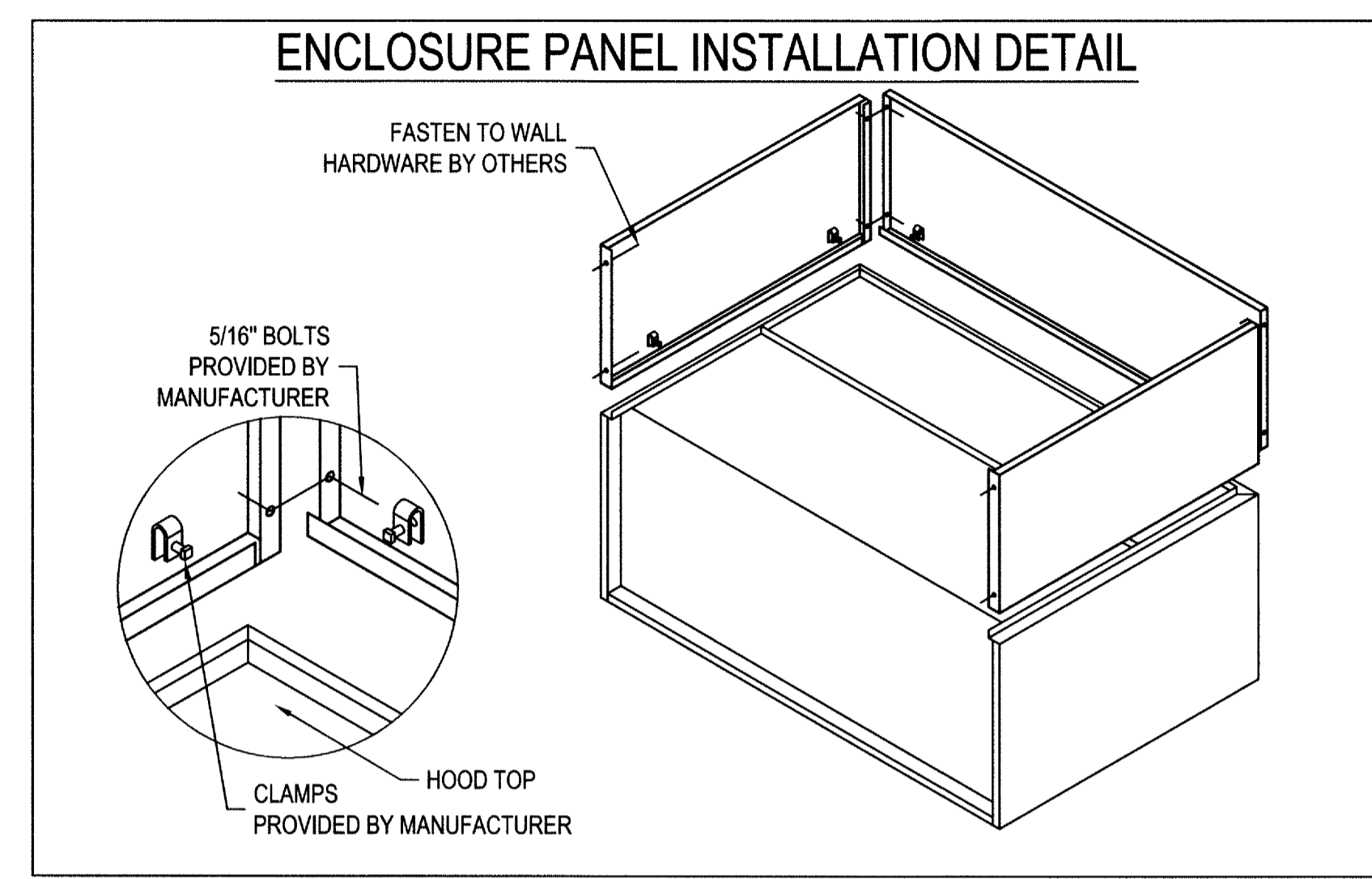
EF	Exhaust Fan	_____	FACTORY WIRING
SF	Supply Fan	_____	FIELD WIRING
ST	Starter	_____	FIELD WIRING
OL	OverLoad	_____	FIELD WIRING
C	Contactor	_____	FIELD WIRING
G	Ground	_____	FIELD WIRING
S	Switch	_____	FIELD WIRING
LT	Light	_____	FIELD WIRING
FS	Fire Switch	_____	FIELD WIRING
R	Relay	_____	FIELD WIRING
AF	Air Flow Switch	_____	FIELD WIRING
SV	Gas Solenoid	_____	FIELD WIRING
STB	Shunt Trip Breaker	_____	FIELD WIRING
D	Damper	_____	FIELD WIRING
PB	PushButton	_____	FIELD WIRING
EC	Evap Cooler	_____	FIELD WIRING
TS	Temperature Sensor	_____	FIELD WIRING
TC	Temperature Controller	_____	FIELD WIRING

**WIRE COLOR**  
 BK - black  
 BL - blue  
 BR - brown  
 OR - orange  
 PR - purple  
 RD - red  
 YW - yellow  
 WH - white

**LISTED**  
 COMMERCIAL APPLIANCE OUTLET CENTER  
 ELECTRICAL RATINGS: 120V, 1PHASE, 60HZ, 15A  
 FILE #220616

**TEMPERATURE INTERLOCK CALIBRATION**

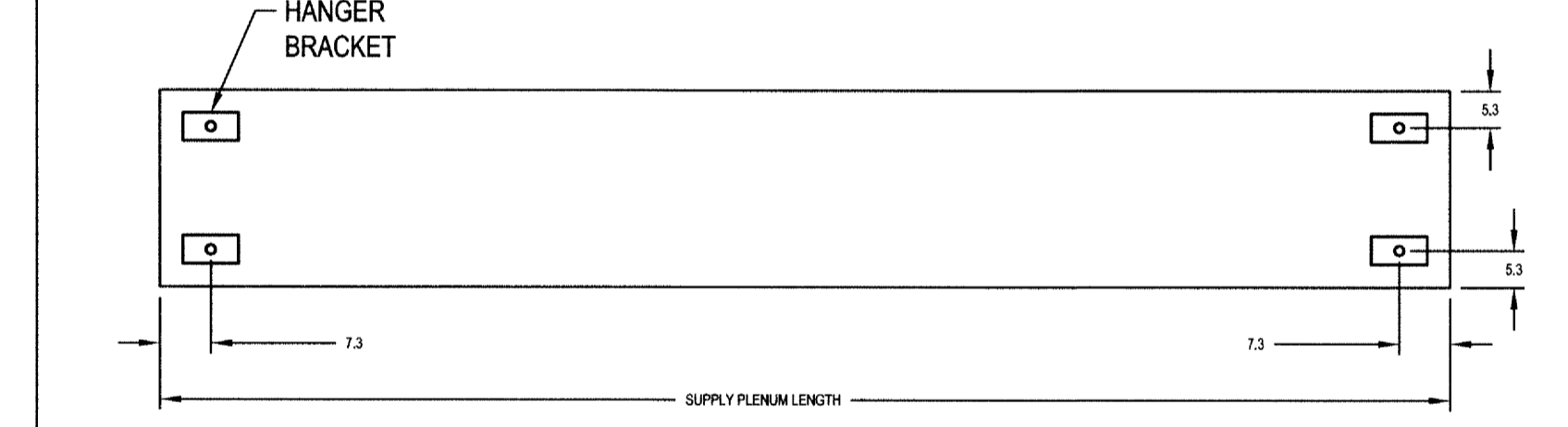
- PRESS SET BUTTON 'S1' WILL APPEAR.
- PRESS UP OR DOWN BUTTON TO NAVIGATE TO SET POINT THAT YOU WISH TO ADJUST ('S1', 'S2', OR 'S3').
- PRESS SET BUTTON TO VIEW CURRENT SET POINT. PRESS UP OR DOWN BUTTON TO ADJUST AND PRESS SET BUTTON TO STORE VALUE.
- PRESS SET + DOWN BUTTONS TOGETHER TO EXIT OR WAIT 1 MINUTE.
- CHECK SYSTEM OPERATION BEFORE MAKING ADDITIONAL ADJUSTMENTS.



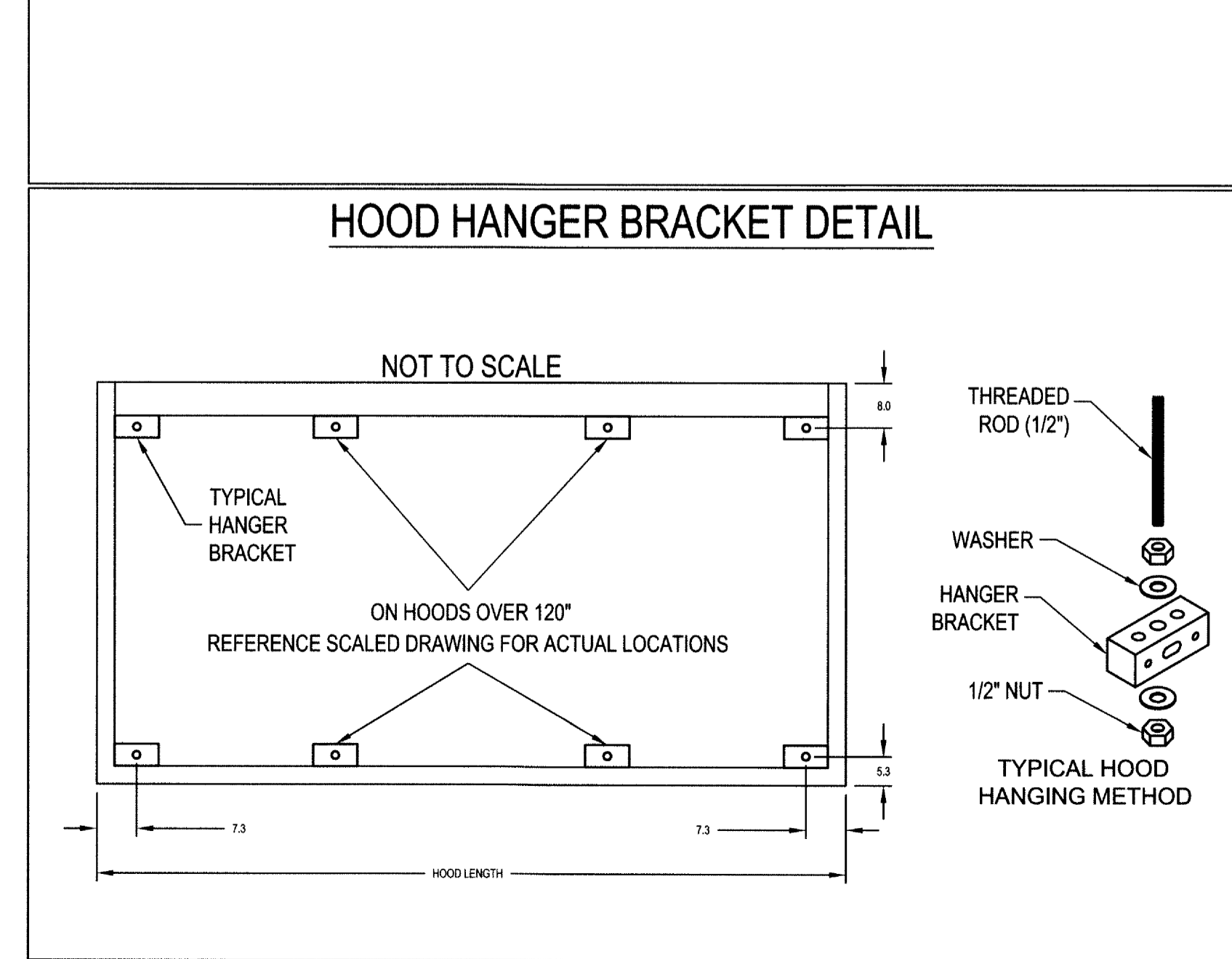
**HOOD HANGING HEIGHT FOR FIRE SYSTEMS**  
 VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

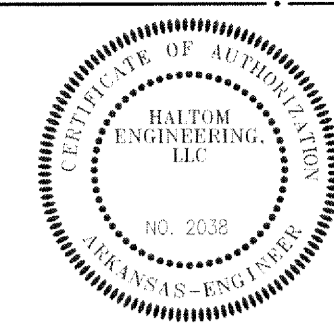
- RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.
- OTHER HANGING HEIGHT = \_\_\_\_\_" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

**SUPPLY PLENUM HANGER BRACKET DETAIL**



**HOOD HANGER BRACKET DETAIL**





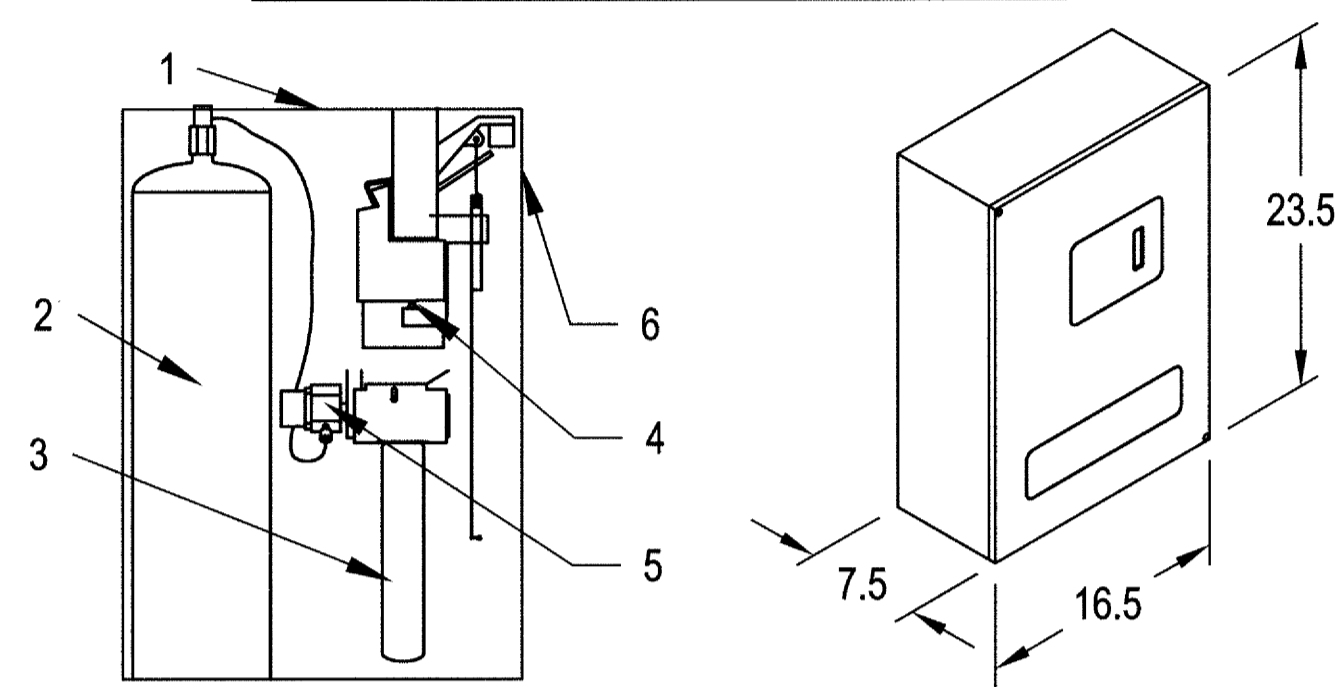
**HALTOM ENGINEERING, LLC**  
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## ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

### CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



NOT TO SCALE

### NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.

-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.

-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.

-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:

-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.

-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:

-FULL DUMP TEST OTHER THAN WHT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.

-MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.

- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.

-INSTALLATION OF GAS SHUT-OFF VALVE.

-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.

-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.

-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.

-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.

-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).

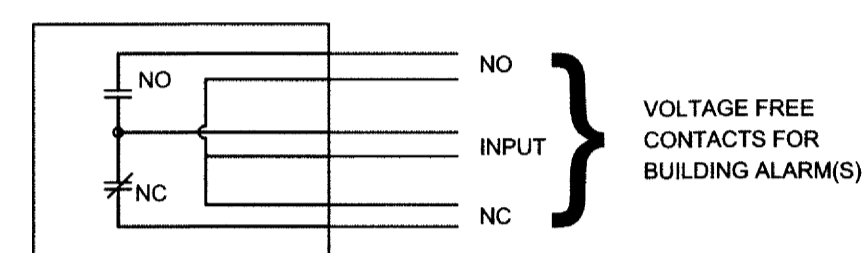
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M.)

-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

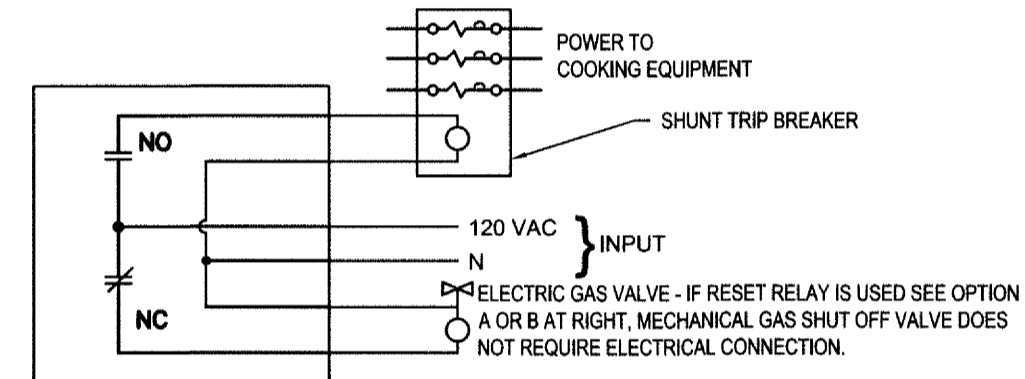
### WIRING DIAGRAMS W/DPDT MICRO SWITCH

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

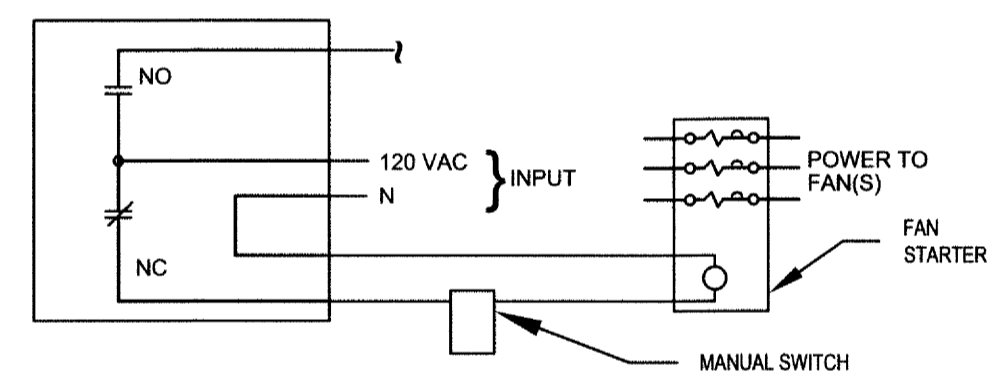
#### CONNECTION TO BUILDINGS ALARM



#### CONNECTION TO COOKING EQUIPMENT SHUT DOWN

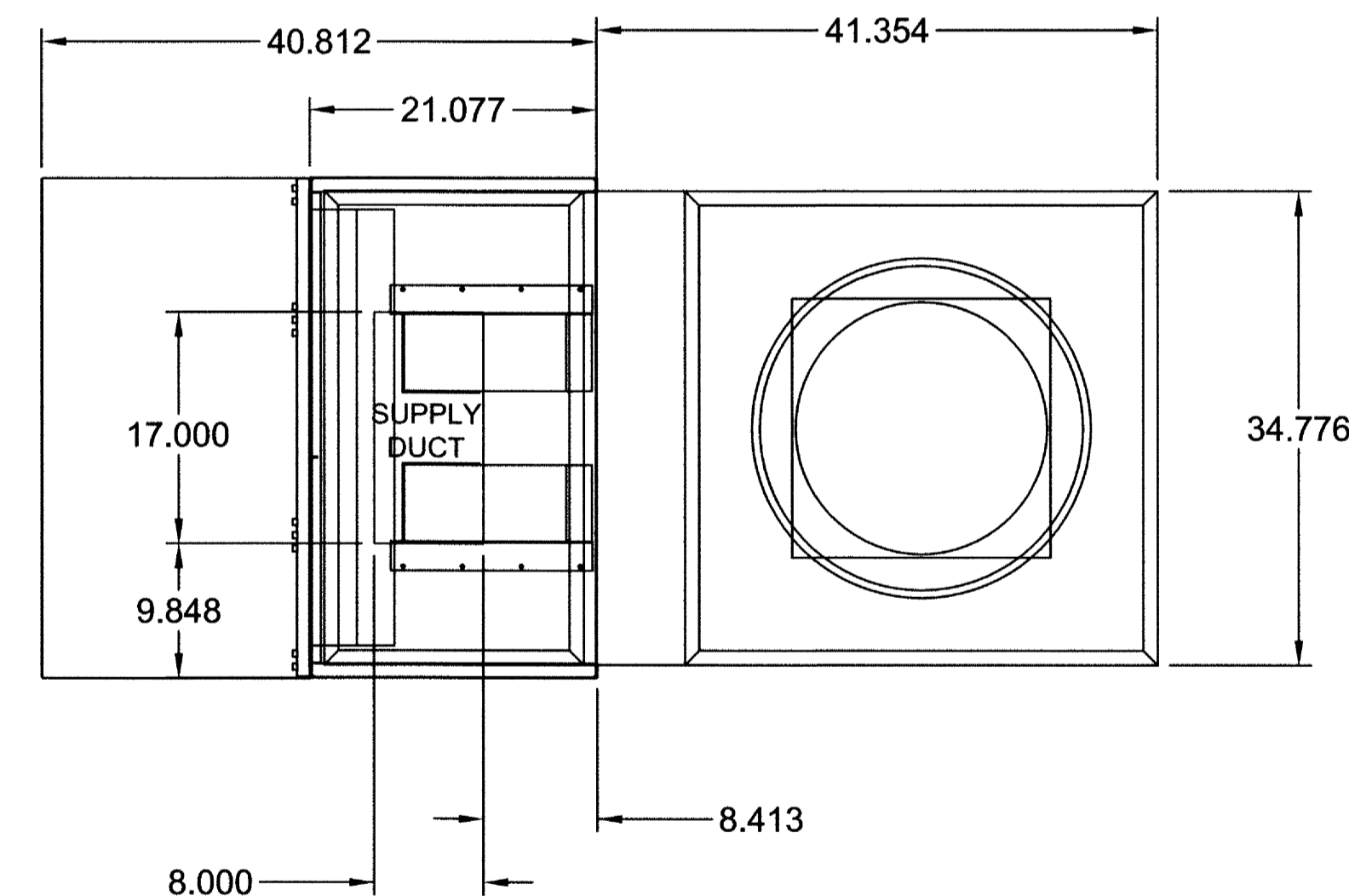
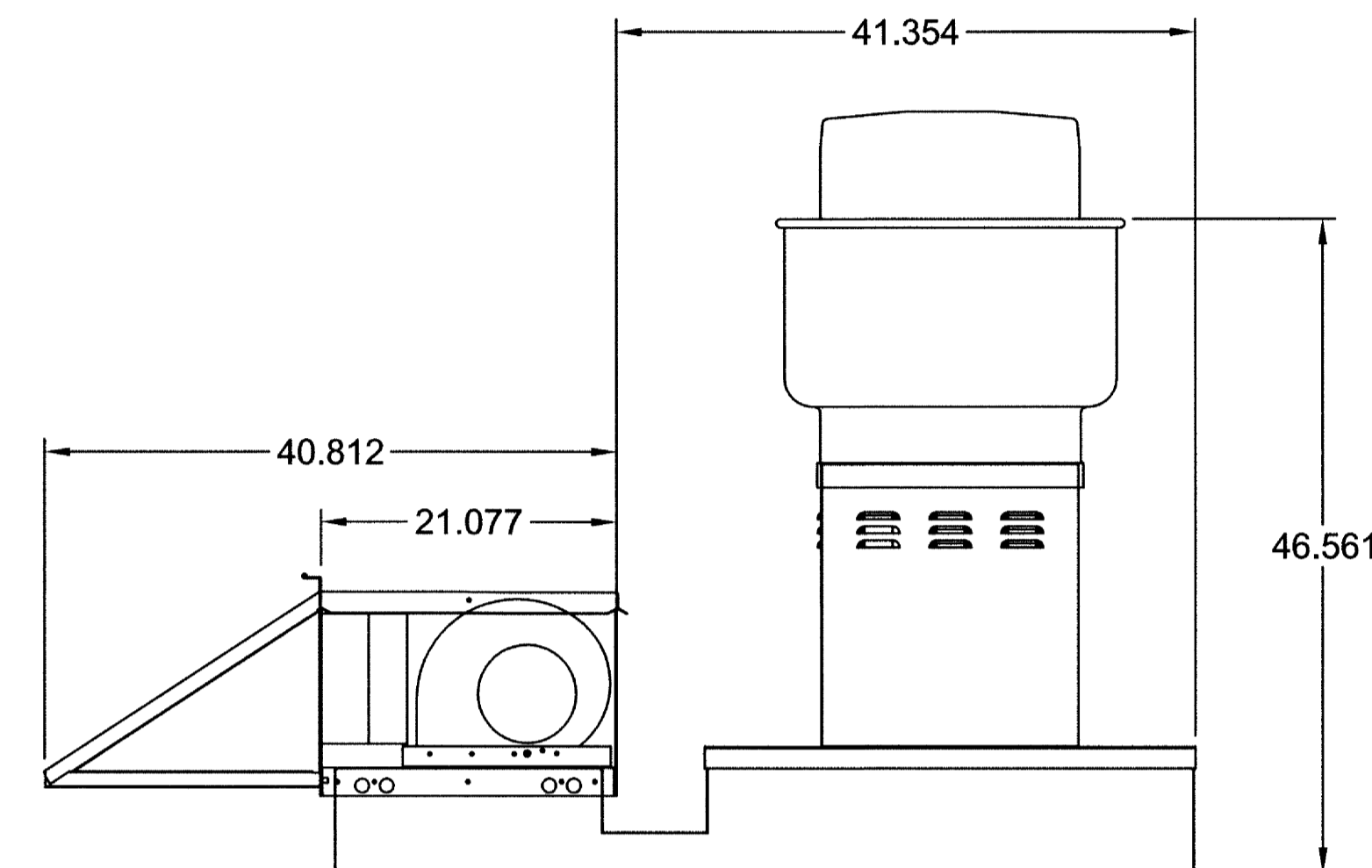


#### CONNECTION TO FAN SHUT DOWN



DO NOT SHUT DOWN EXHAUST FANS WITH THIS METHOD OF WIRING, IF PROHIBITED BY LOCAL CODES.

- NOTES:
1. ——— DENOTES FIELD INSTALLATION.
  2. ——— DENOTES FACTORY INSTALLATION.
  3. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEIOUS ALARM, LIGHT CIRCUITS, ETC.



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**CONCESSION BUILDING -  
CITY OF JONESBORO**  
JONESBORO, AR

Rev.	Date	Revision Description

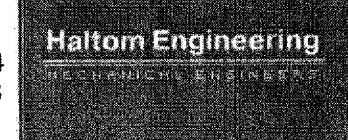
Seal

Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH

Sheet Title:  
**DETAILS -  
HVAC**

**M204**

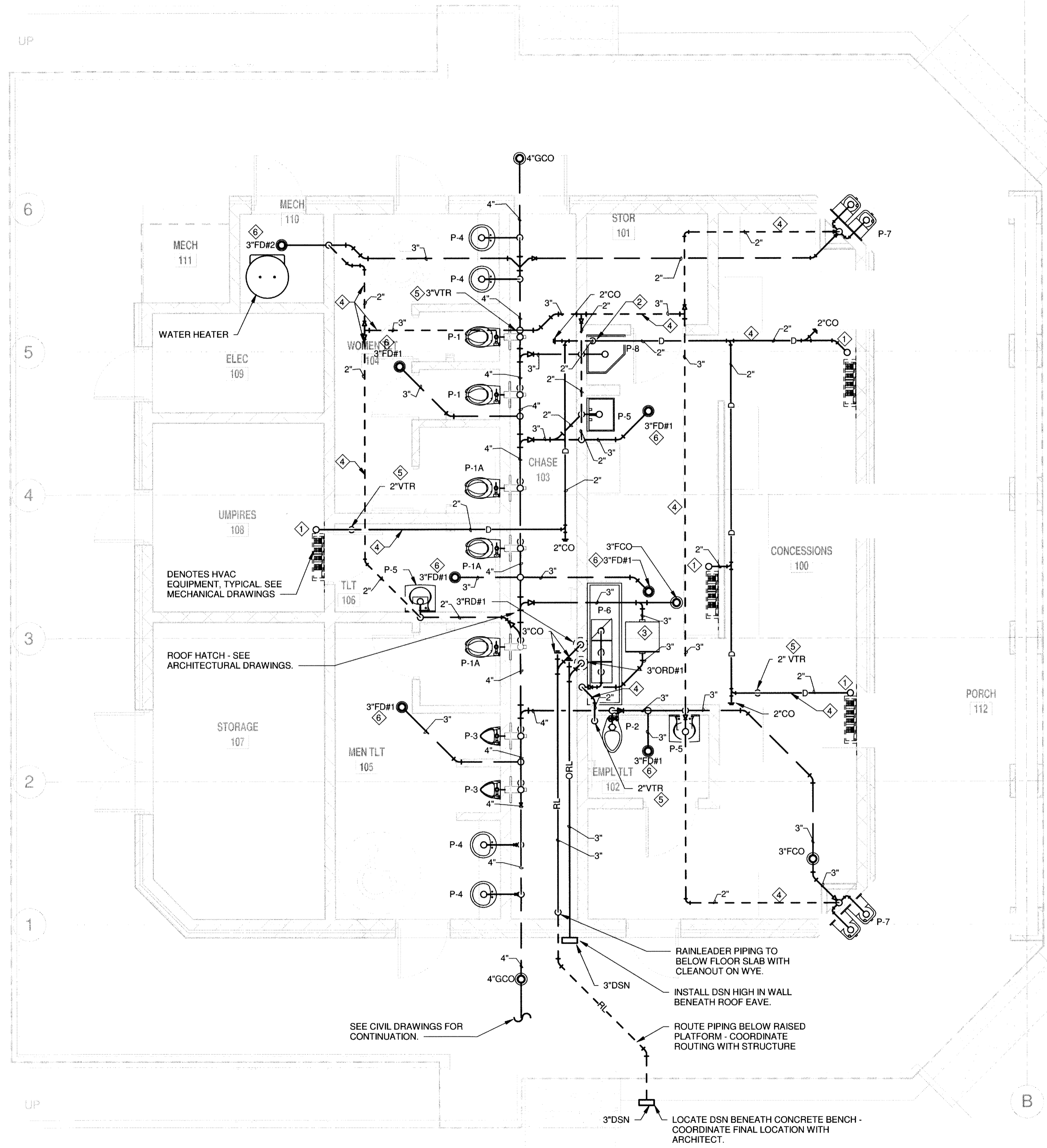




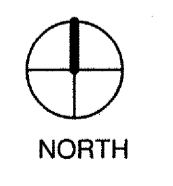
**CONCESSION BUILDING -  
 CITY OF JONESBORO,  
 AR**

- KEYNOTES (THIS SHEET):**
- ① PROVIDE 2" DEEP SEAL P-TRAP FOR HVAC CONDENSATE. COORDINATE WITH HVAC EQUIPMENT AND GENERAL CONTRACTOR.
  - ② 2" CONDENSATE DRAIN DOWN AND SPILL INTO JANITOR SINK WITH AIR GAP.
  - ③ 100 POUND CAPACITY GREASE INTERCEPTOR WITH FLOW CONTROL MOUNTED FLUSH WITH FINISHED FLOOR. EQUAL TO ZURN Z1170-800.
  - ④ ROUTE PIPING IN TRUSS SPACE. PROVIDE HEAT TRACE FOR PIPING SUBJECT TO FREEZING INCLUDING P-TRAP FOR CONDENSATE DRAINAGE. SEE HEAT TRACE SPECIFICATIONS ON SHEET P203.
  - ⑤ COORDINATE VENT THROUGH ROOF WITH ARCHITECTURAL DRAWINGS AND ARCHITECT. AVOID TERMINATING IN ROOF WELL WITH INTAKE LOUVERS. SEE CONSTRUCTION NOTE 4.
  - ⑥ PROVIDE CODE APPROVED TRAP GUARD ON ALL FLOOR DRAIN CONNECTED TO SANITARY SEWER.

- CONSTRUCTION NOTES:**
- 1. COORDINATE PIPING WITH ALL OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.).
  - 2. COORDINATE ALL PIPING BELOW GRADE WITH STRUCTURAL GRADE FOOTING/BELM. SEE STRUCTURAL DRAWINGS.
  - 3. COORDINATE CONDENSATE DRAIN LOCATIONS WITH HVAC EQUIPMENT AND CONTRACTOR.
  - 4. COORDINATE ALL VENTS WITH HVAC UNITS TO MAINTAIN A MINIMUM OF 10 FEET AWAY FROM ALL INTAKES. OFFSET AS REQUIRED.
  - 5. PROVIDE P-TRAPS FOR ALL SANITARY PLUMBING FIXTURES INCLUDING FLOOR DRAIN. SEE RISER DIAGRAMS.

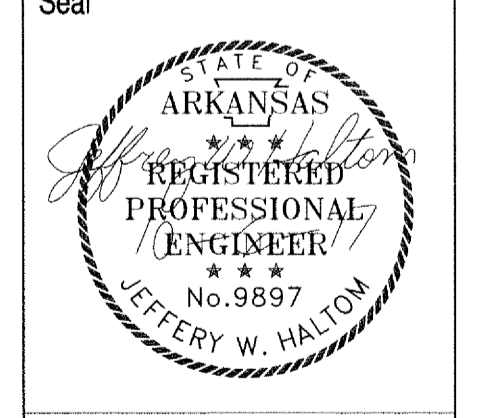


**1 FLOOR PLAN - PLUMBING - DWV**  
 1/4" = 1'-0"



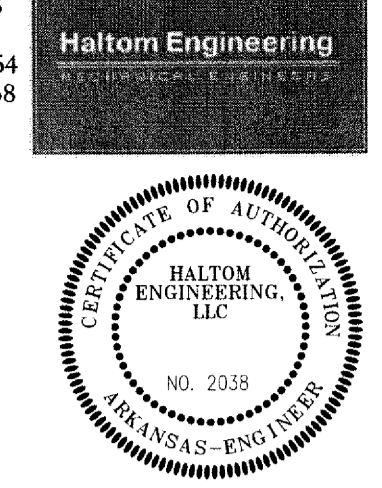
THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.

Rev.	Date	Revision Description



Issue Date: 10/06/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH  
 Sheet Title:

**FLOOR PLAN -  
 PLUMBING -  
 DWV**



**CONCESSION BUILDING -  
 CITY OF JONESBORO**  
 JONESBORO, AR

Rev.	Date	Revision Description

Seal  
 STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 9897  
 JEFFERY W. HALTON

Issue Date: 10/06/2017  
 Project No: F10472  
 Drawn By: JF  
 Checked By: JH  
 Sheet Title:

**FLOOR PLAN -  
 PLUMBING -  
 DOMESTIC  
 WATER**

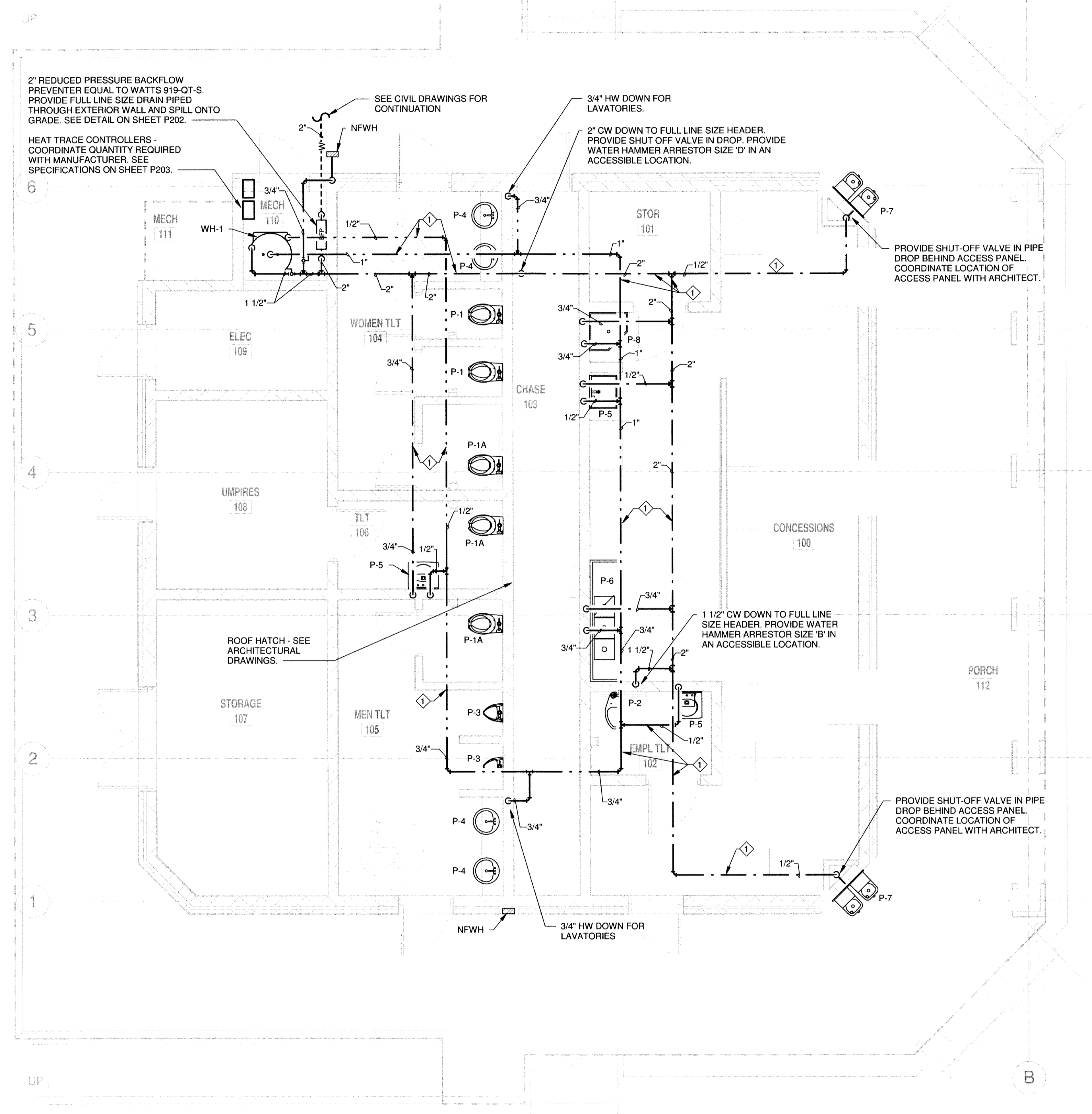
**P102**

**KEYNOTES (THIS SHEET):**

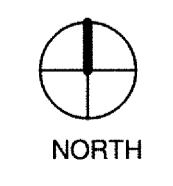
◇ ROUTE PIPING IN TRUSS SPACE. PROVIDE HEAT TRACE FOR PIPING IN AREAS SUBJECT TO FREEZING CONDITIONS (TRUSS SPACE). SEE HEAT TRACE SPECIFICATION ON SHEET P203.

**CONSTRUCTION NOTES:**

- COORDINATE PIPING WITH ALL OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.).
- COORDINATE ALL PIPING BELOW GRADE WITH STRUCTURAL GRADE FOOTING/BEAM. SEE STRUCTURAL DRAWINGS.



**1 FLOOR PLAN - PLUMBING - DOMESTIC WATER**  
 1/4" = 1'-0"



THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.

PLUMBING FIXTURE SCHEDULE											
MARK	FIXTURE TYPE	MFR.	MODEL NO.	BRASS MODEL NO.	TRAP	SUPPLY	REMARKS	SOIL/WASTE	VENT	CW	HW
P-1	WALL HUNG FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	AFWALL 2257.101				PROVIDE SEAT EQUAL TO CENTOCO 500STSCSS (SELF-SUSTAINING STAINLESS STEEL HINGE) AND FLUSH VALVE EQUAL TO ZURN Z-6000AV-WS1. PROVIDE WALL CARRIER EQUAL TO ZURN Z-1203/Z-1204 SERIES.	4"	2"	1"	
P-1A	HANDICAPPED WALL HUNG FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	AFWALL 2257.101				PROVIDE SEAT EQUAL TO CENTOCO 500STSCSS (SELF-SUSTAINING STAINLESS STEEL HINGE) AND FLUSH VALVE EQUAL TO ZURN Z-6000AV-WS1. PROVIDE OFFSET FLUSH VALVE AS REQUIRED TO AVOID HANDICAPPED BARS. FLUSH VALVE SHALL BE LOCATED ON OPEN SIDE OF ACCESSIBLE STALLS. PROVIDE WALL CARRIER EQUAL TO ZURN Z-1203/Z-1204 SERIES.	4"	2"	1"	
P-2	HANDICAPPED FLOOR MOUNTED FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	MADERA 3043.001				PROVIDE SEAT EQUAL TO CENTOCO 500STSCSS (SELF-SUSTAINING STAINLESS STEEL HINGE) AND FLUSH VALVE EQUAL TO ZURN Z-6000AV-WS1. PROVIDE OFFSET FLUSH VALVE AS REQUIRED TO AVOID HANDICAPPED BARS. FLUSH VALVE SHALL BE LOCATED ON OPEN SIDE OF ACCESSIBLE STALLS.	4"	2"	1"	
P-3	URINAL	AMERICAN STANDARD	WASHBROOK 6590.001				PROVIDE WALL CARRIER EQUAL TO ZURN Z-1222 AND FLUSH VALVE EQUAL TO ZURN Z-6003AV-WS1.	2"	2"	3/4"	
P-4	HANDICAPPED COUNTERTOP LAVATORY	AMERICAN STANDARD	AQUALYN 0476.028	ZURN ZB1000-XL	MCGUIRE 8872	MCGUIRE 2165LK	PROVIDE LAVATORY WITH 4" CENTERS AND OVERFLOW. PROVIDE SINGLE LEVER FAUCET. PROVIDE OPEN GRID DRAIN EQUAL TO MCGUIRE 155A (OR OFFSET OPEN GRID DRAIN EQUAL TO 155WC AS REQUIRED) WITH TAILPIECE AND TRUEBRO #103 INSULATION KIT.	2"	2"	1/2"	1/2"
P-5	HANDICAPPED WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	ZURN ZB1000-XL	MCGUIRE 8872	MCGUIRE 2165LK	PROVIDE LAVATORY WITH 4" CENTERS AND OVERFLOW. PROVIDE SINGLE LEVER FAUCET. PROVIDE OPEN GRID DRAIN EQUAL TO MCGUIRE 155A (OR OFFSET OPEN GRID DRAIN EQUAL TO 155WC AS REQUIRED) WITH TAILPIECE AND TRUEBRO #103 INSULATION KIT. PROVIDE CONCEALED ARM CHAIR CARRIER.	2"	2"	1/2"	1/2"
P-6	THREE COMPARTMENT SCULLERY SINK WITH DRAINBOARDS	ELKAY	SS-8345-LR	(2) ZURN ZB43C4-XL	MCGUIRE 8912	MCGUIRE 2165LK	SINK SHALL HAVE A MAXIMUM OVERALL LENGTH OF 93" (15" WIDE BOWLS AND APPROX. 24" WIDE DRAINBOARDS). PROVIDE 14 GAUGE STAINLESS STEEL FLOOR MOUNTED SCULLERY SINK WITH MINIMUM 14" DEEP COMPARTMENT, LEFT AND RIGHT DRAINBOARDS, AND ROTARY LEVER OPERATED DRAIN EQUAL TO ELKAY LK24RT WITH TAILPIECE. PROVIDE (2) WALL MOUNTED FAUCET WITH INTEGRAL STOPS, 8" CENTERLINE SWING GOOSENECK SPOUT, AND 4" WRIST BLADE HANDLES.	2"	2"	(2) 1/2"	(2) 1/2"
P-7	WALL HUNG ADA HI-LOW DRINKING FOUNTAIN	MOST DEPENDABLE FOUNTAINS	485-EZ-WM		MCGUIRE 8872	MCGUIRE 2165LK	PROVIDE DRINKING FOUNTAIN WITH WALL CARRIER PLATE, REINFORCED NYLONBRAID TUBING, STAINLESS STEEL STRAINER, AND CUT-OFF LOW POINT DRAIN KIT. PROVIDE ACCESS PANEL (COORDINATE LOCATION WITH OWNER AND ARCHITECT) ON OPPOSITE SIDE OF DRINKING FOUNTAIN FOR WINTERIZATION ACCESS. COLOR SHALL BE BY ARCHITECT.	2"	2"	1/2"	
P-8	SERVICE BASIN	FLORESTONE	MODEL 80	ZURN ZB43M1-XL			PROVIDE TERRAZZO MOP RECEPTOR WITH 24"x24"x12" SIZE, STAINLESS STEEL CAPS, MR-372 MOP HANGER, MR-370 HOSE AND BRACKET, AND MR-377 STAINLESS STEEL WALL GUARDS. FAUCET SHALL HAVE INTEGRAL STOPS.	3"	2"	1/2"	1/2"

DRAIN, CLEANOUT AND HYDRANT SCHEDULE							
MARK	MANUFACTURE & MODEL NO.					DESCRIPTION	FINISH
	WADE	J.R. SMITH	JOSAM	ZURN	WATTS		
WCO	W-8460-R	4530	58790	Z 1446	CO-460-RD	CLEANOUT TEE W/BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER.	STAINLESS STEEL
FCO	W-8130-AF	4020	58360	ZP 9776	CO-200-R-34B	CAST IRON FLOOR CLEANOUT W/ADJUSTABLE BRASS TOP, BRASS PLUG & ROUND SECURED SCORIATED COVER.	NICKEL BRASS
GCO	W-8130-AF	4020	58360	ZP 9776	CO-200-R-34B	SAME AS FCO EXCEPT FINISH. SET IN 12"x12"x6" DEEP CONC.PAD.	BRASS
CO	W-8550-X	4420 W/RAISED HEAD PLUG	58490-20	Z-1440-BP-A	CO-380	CAST IRON CLEANOUT FERRULE WITH TAPERED RAISED HEAD BRASS PLUG.	CAST IRON
FD#1	W-1100-STD6	2010-A	30000A	ZB-415-B6	FD-100-A6	CAST IRON FLOOR DRAIN W/FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS & ADJUSTABLE 6" DIAMETER STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION WHERE REQUIRED.	SATIN BRONZE
FD#2	W-1100-ER7	2010-F37	30000 7E1	ZB-415-I7	FD-100-ER7	CAST IRON FLOOR DRAIN W/ FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, & ADJUSTABLE 7" DIAMETER STRAINER WITH EXTENDED RIM.	SATIN BRONZE
NFWH	W-8600-175	5509	71650	Z-1300	HY-725	NON-FREEZE ANTI-SIPHON WALL HYDRANT W/BRONZE CASING AND INTEGRAL BACKFLOW PREVENTER & BRONZE BOX.	NICKEL BRONZE
RD#1	W-3000-42	1010-CID	21500-22	ZC-100	RD-100-K	CAST IRON ROOF DRAIN W/FLANGE, FLASHING RING W/GRAVEL STOP & MUSHROOM CAST IRON DOME.	CAST IRON
ORD#1	W-3000-D-42	1080-CID	21500-17	ZC-100-89	RD-100-K-R	CAST IRON ROOF DRAIN W/FLANGE, FLASHING RING W/GRAVEL STOP 2" HIGH DAM & MUSHROOM CAST IRON DOME.	CAST IRON
DSN	W-3940-1	1770-NB	25010-50	ZANB-199	RD-940	CAST BRONZE DOWNSPOUT NOZZLE W/THREADED INLET AND FLANGE TO SECURE NOZZLE TO WALL.	CHROME PLATED

ELECTRIC WATER HEATER SCHEDULE														
MARK	STORAGE (GAL.)	RECOVERY 80°F RISE	ELECTRICAL				CIRCULATOR				REMARKS	MFG.	MODEL	
			KW	VOLTS/PH	MARK	GPM	HEAD	MFG.	MODEL	ELECTRICAL				
										HP				VOLTS/PH
WH-1	119	90	18	208/1	CP-1	5	5 FT.	GRUNDFOS	UP15-18 SF	1/25	120/1	PROVIDE WITH ASME T&P RELIEF VALVE; SEE NOTES	PVI	DURAWATT 90-L-119A-VE

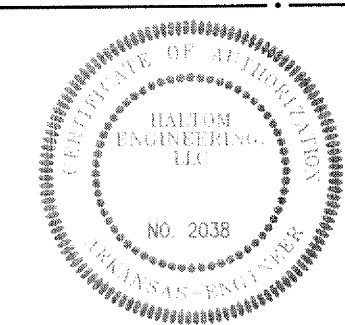
- NOTES
- PROVIDE ISOLATION VALVE SET 519755 WITH CIRCULATOR PUMP.
  - PROVIDE TIMER CONTROL WITH CIRCULATOR PUMP.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	SOIL OR WASTE BELOW FLOOR OR GRADE (S OR W)
---	SOIL OR WASTE ABOVE FLOOR OR GRADE (S OR W)
---	VENT (V)
---	DOMESTIC COLD WATER (CW)
---	DOMESTIC COLD WATER BELOW FLOOR OR GRADE (W)
---	DOMESTIC HOT WATER 120° (HW)
---	DOMESTIC HOT WATER RETURN 120° (HWR)
---	CONDENSATE DRAIN BELOW FLOOR OR GRADE (COND)
---	CONDENSATE DRAIN ABOVE FLOOR OR GRADE (COND)
---	RAINLEADER BELOW FLOOR OR GRADE (RL)
---	RAINLEADER ABOVE FLOOR OR GRADE (RL)
---	OVERFLOW RAINLEADER BELOW FLOOR OR GRADE (ORL)
---	OVERFLOW RAINLEADER ABOVE FLOOR OR GRADE (ORL)
---	BALL VALVE
---	CHECK VALVE
---	UNION
FD	FLOOR DRAIN (X" FD#X)
HD	HUB DRAIN
CO	CLEANOUT
WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT
FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF
P-X	PLUMBING FIXTURES (P-X)
NFWH	NON-FREEZE WALL HYDRANT
A.F.F.	ABOVE FINISHED FLOOR
P-X	PLUMBING RISER DIAGRAM NUMBER

- ### GENERAL NOTES
- UNLESS NOTED OTHERWISE, RUN CW AND HW PIPING FULL SIZE THROUGH LENGTH OF CHASE, AND MAKE CONNECTIONS TO FIXTURES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PROVIDE RIGID SUPPORT AND BLOCKING IN CHASE FOR HEADER AND BRANCH PIPING, AND FOR VALVE TO PREVENT ANY MOVEMENT.
  - PROVIDE CLEANOUTS ON SANITARY DWV PIPING AND CONDENSATE DRAIN PIPING AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL AND STATE CODES. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS. COORDINATE TOP OF COG ELEVATION WITH TOP OF FINISHED GRADE.
  - NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION AND BOX WITH KEY. INSTALL WALL HYDRANT 18" ABOVE OUTSIDE GRADE.
  - EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
  - UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY DWV AND CONDENSATE DRAIN PIPING 3" PIPE SIZE AND LARGER A MINIMUM OF 1/8" PER FOOT OF RUN, AND 2" PIPE SIZE AND SMALLER A MINIMUM 1/4" PER FOOT OF RUN. SLOPE VENT PIPING DOWN AND BACK TO FIXTURES.
  - THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING. THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
  - FIELD VERIFY EXACT LOCATIONS AND SIZES OF EXISTING SERVICES SHOWN ON DRAWINGS PRIOR TO PRICING, FABRICATION, OR CONSTRUCTION. FIELD LOCATE ALL OTHER EXISTING SERVICES IN THE AREA OF THIS PROJECT BEFORE CONSTRUCTION.
  - PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW PREVENTERS, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED ON, OR WITH NEW EQUIPMENT.
  - PROVIDE HAND SHUTOFF VALVES ON ALL HOT AND COLD WATER LINES AT STUB-IN, AND AS SHOWN ON PLANS.
  - PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR WORK.
  - VERIFY ALL FLOW LINES PRIOR TO ROUGHING IN.
  - FURNISH ACCESS PANELS TO BE INSTALLED BY GENERAL CONTRACTOR AS REQUIRED FOR PLUMBING INSTALLATIONS. ALL VALVES SHALL BE ACCESSIBLE.
  - PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR PIPE MATERIALS.

WATER HAMMER ARRESTOR SCHEDULE						
PDI SIZE	F.U. RATING	ANCON SHOK-GUARD	WADE SHOKSTOP	SMITH HYDROTROL	JOSAM 75000 SERIES	ZURN SHOKTROL Z-1700
A	1-11	SG-050	W-5	5005	75001	#100
B	12-32	SG-075	W-10	5010	75002	#200
C	33-60	SG-100	W-20	5020	75003	#300
D	61-113	SG-125	W-50	5030	75004	#400
E	114-154	SG-150	W-75	5040	75005	#500
F	155-330	SG-200	W-100	5050	75006	#600

NOTE: WATER HAMMER ARRESTORS MUST BE PDI CERTIFIED



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**CONCESSION BUILDING -**  
**CITY OF JONESBORO**  
 JONESBORO, AR

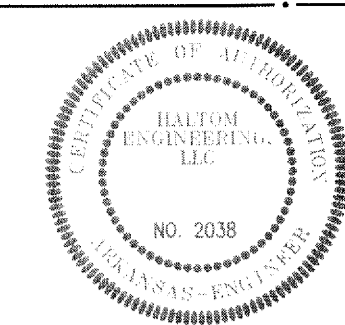
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*Jeffrey W. Halton*  
 PROFESSIONAL ENGINEER  
 STATE OF TENNESSEE  
 LICENSE NO. 2038  
 JEFFREY W. HALTON

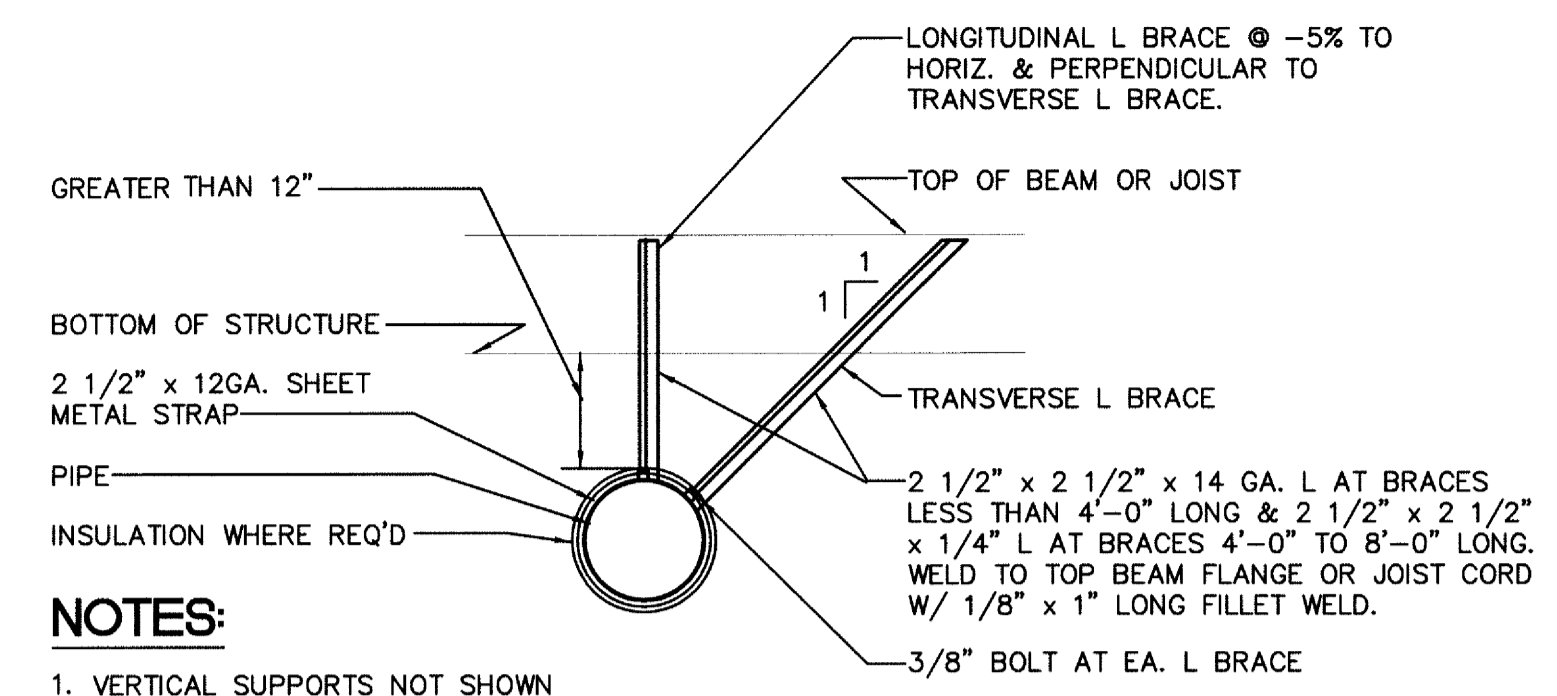
Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: RL  
 Checked By: JH  
 Sheet Title:

**SCHEDULES, LEGEND, AND NOTES - PLUMBING**

**P201**

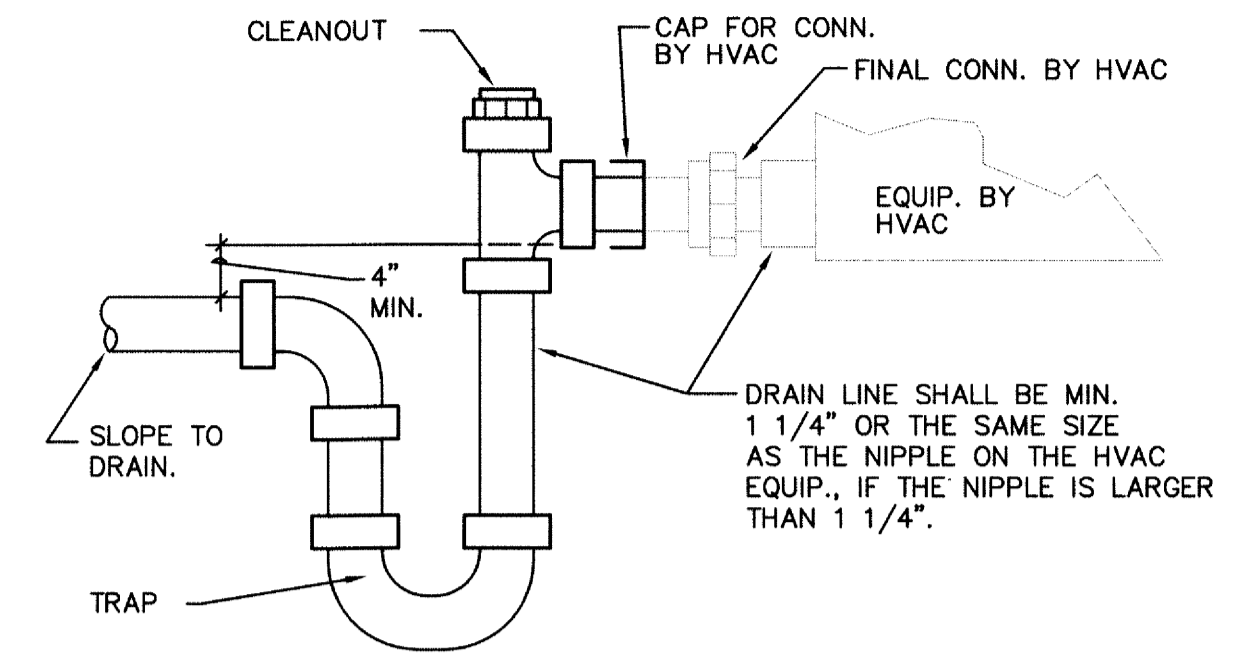


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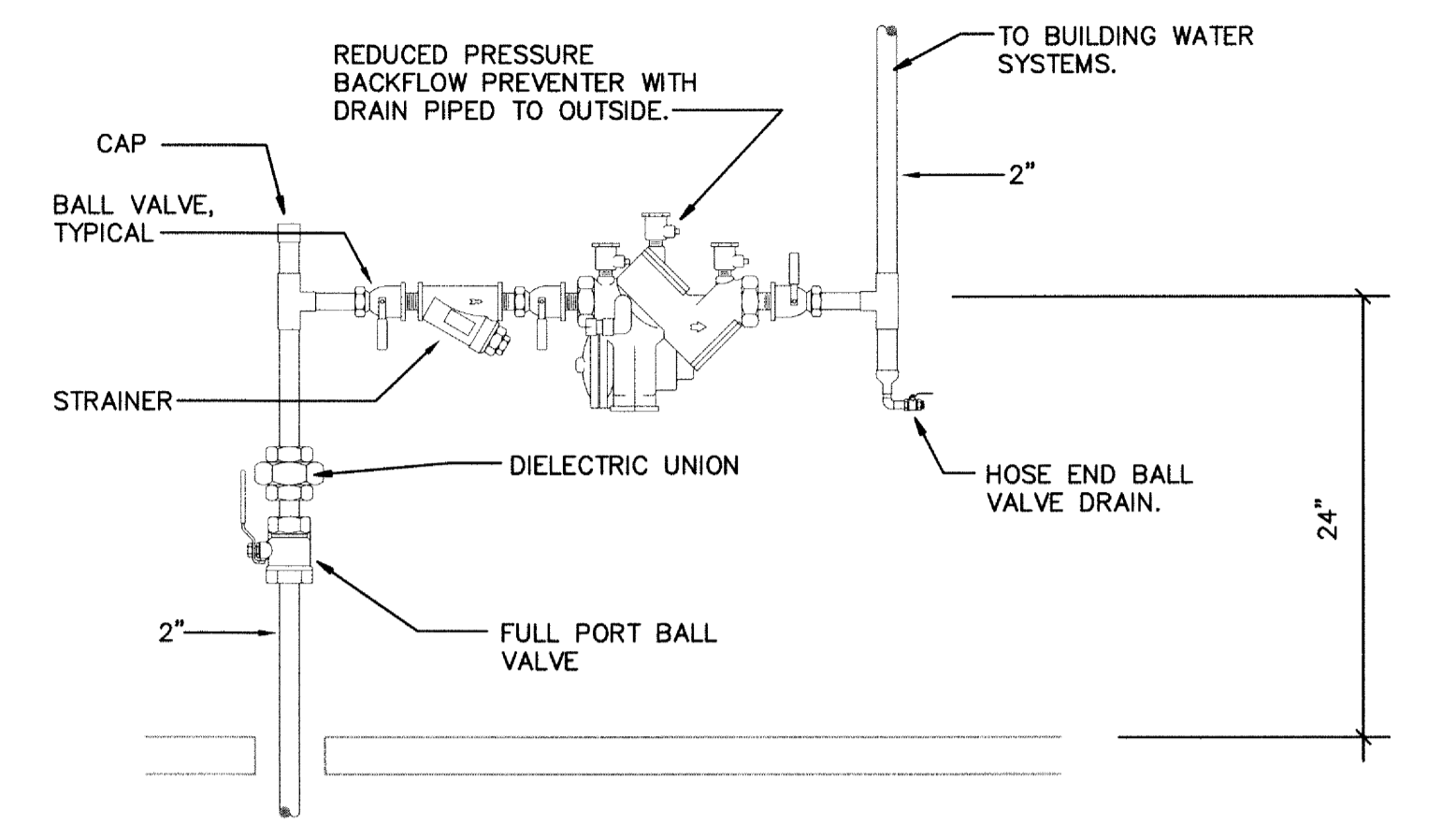


- NOTES:**
1. VERTICAL SUPPORTS NOT SHOWN
  2. BRACE TO STRUCTURE IN PERPENDICULAR DIRECTIONS BASED ON MAX. WEIGHT OF BRACED ITEM = 2000#/PAIR OF BRACS. MAX. SPACING BETWEEN PAIR OF BRACES = 30'-0".
  3. SEISMIC BRACING AS SHOWN ON DETAIL IS NOT REQUIRED FOR PIPING LESS THAN 1 1/4" INSIDE DIAMETER IN MECHANICAL EQUIPMENT ROOMS, ALL OTHER PIPING LESS THAN 2 1/2" INSIDE DIAMETER AND ALL PIPING SUSPENDED BY HANGERS WITH TOP OF PIPE WITHIN 12" OF STRUCTURE.

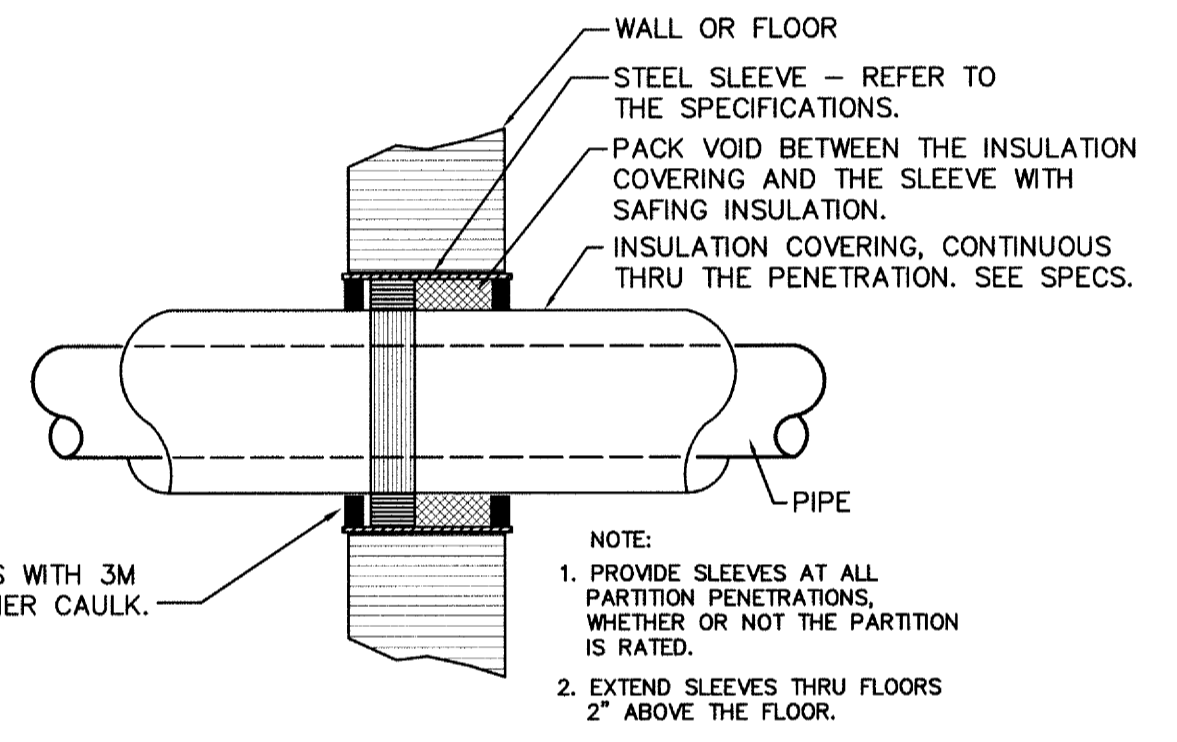
**SEISMIC BRACING DETAIL**  
NO SCALE



**CONDENSATE DRAIN DETAIL**  
NO SCALE

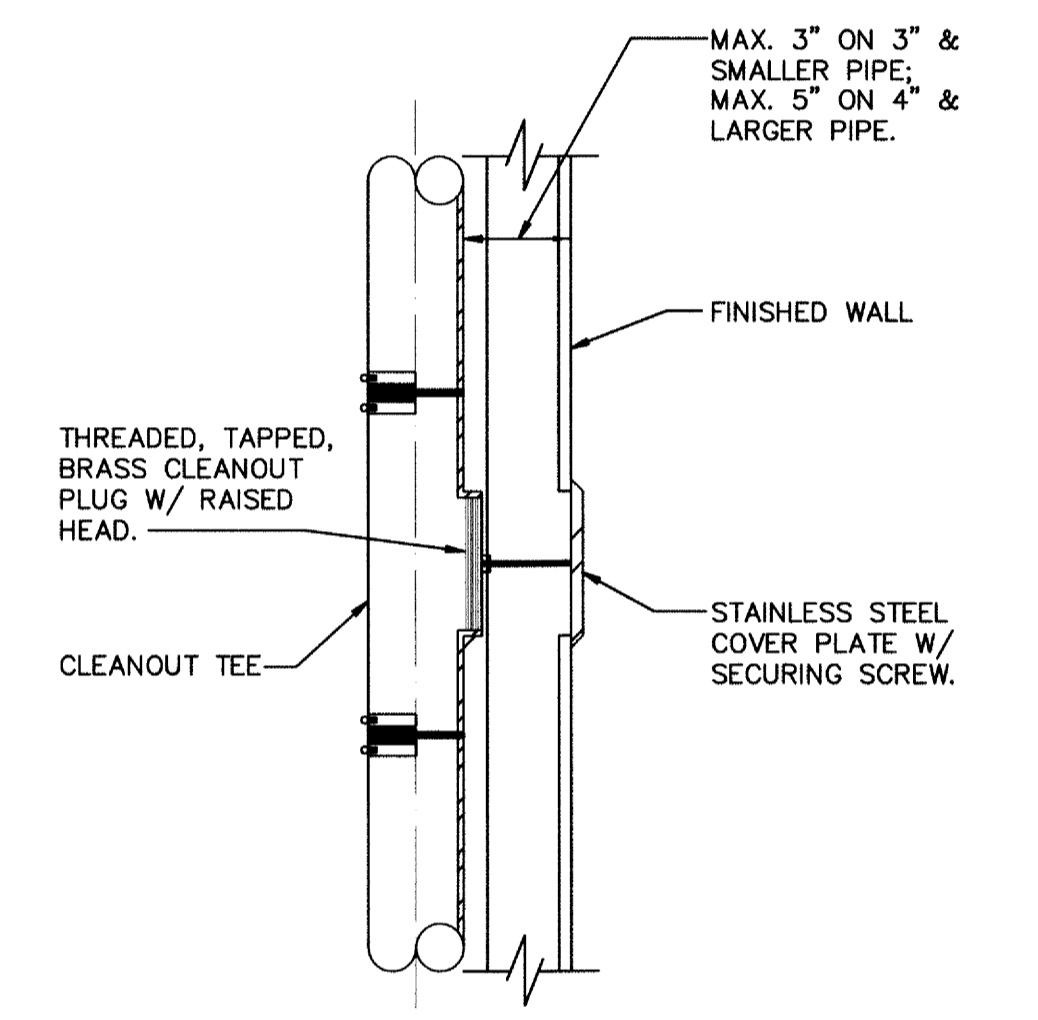


**DOMESTIC COLD WATER ENTRANCE PIPING SCHEMATIC**  
NO SCALE

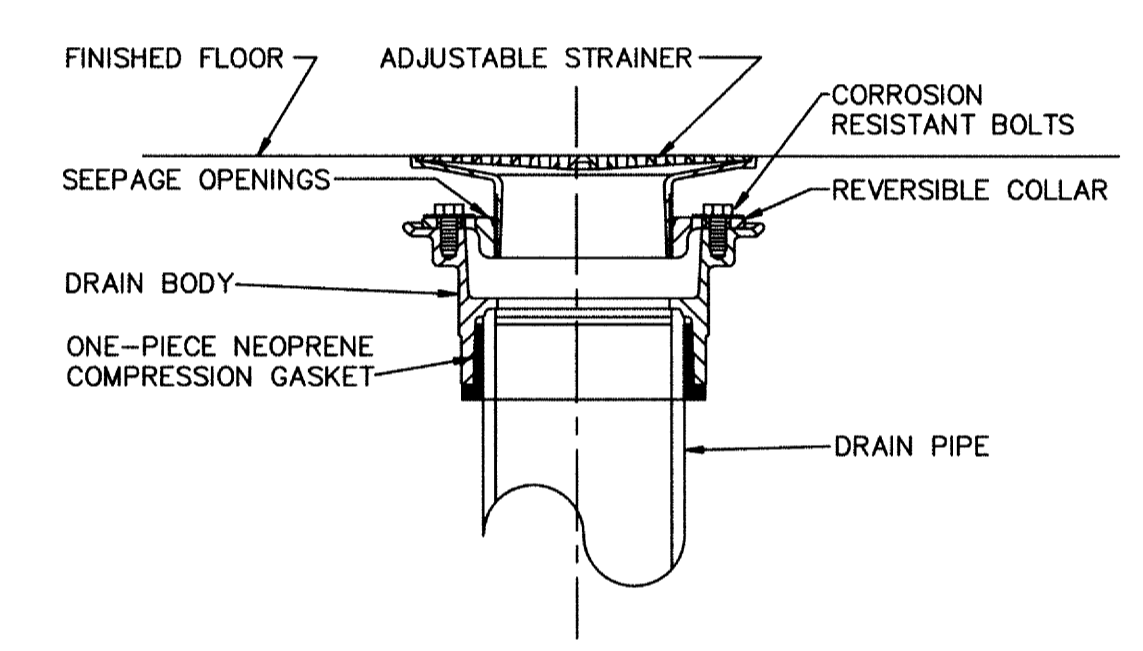


- NOTE:**
1. PROVIDE SLEEVES AT ALL PARTITION PENETRATIONS, WHETHER OR NOT THE PARTITION IS RATED.
  2. EXTEND SLEEVES THRU FLOORS 2" ABOVE THE FLOOR.

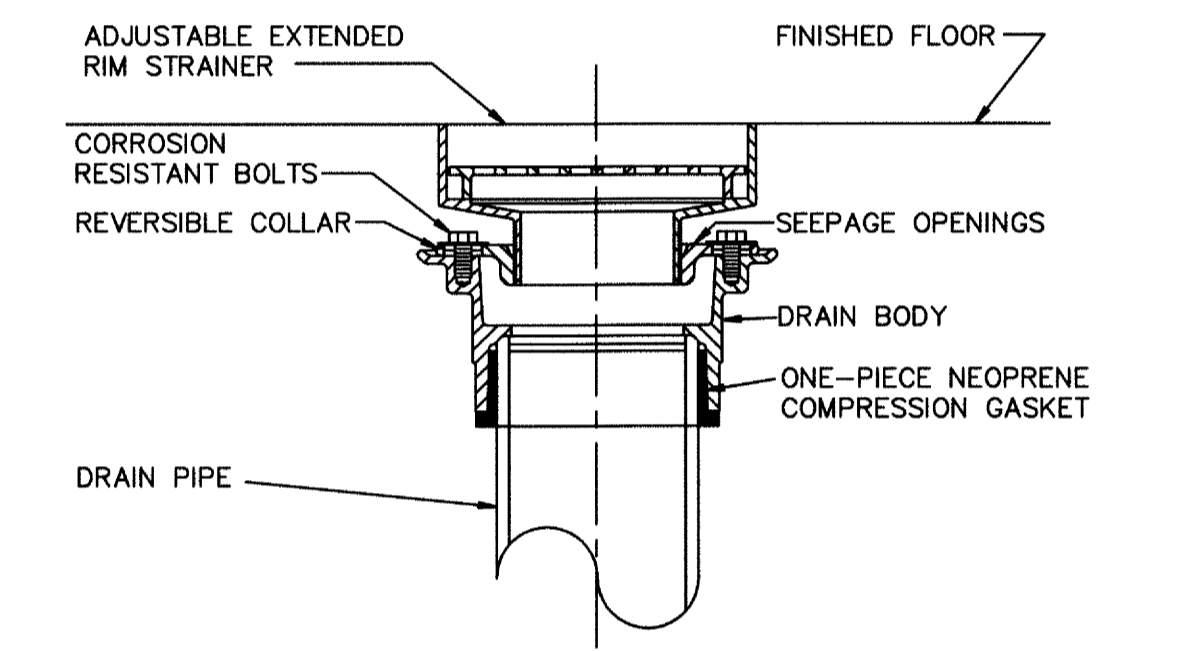
**PIPE PENETRATION DETAIL**  
NO SCALE



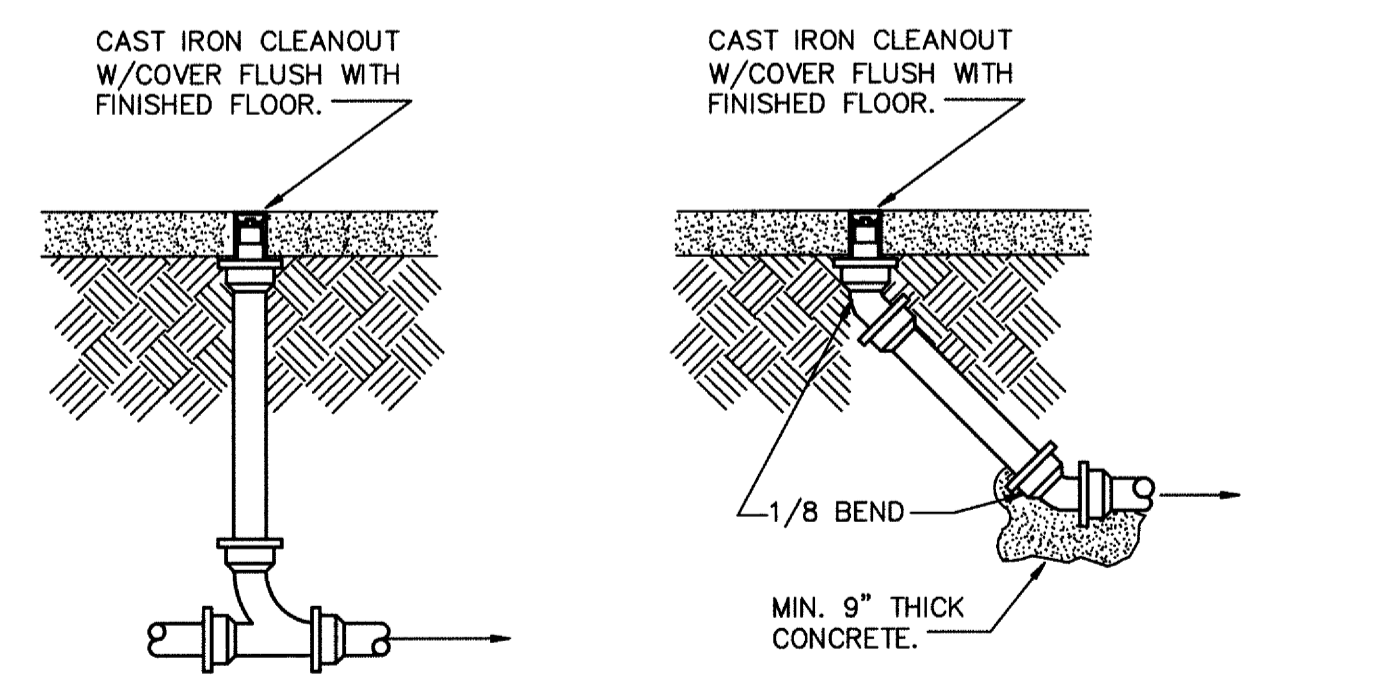
**WALL CLEANOUT (WCO)**  
NO SCALE



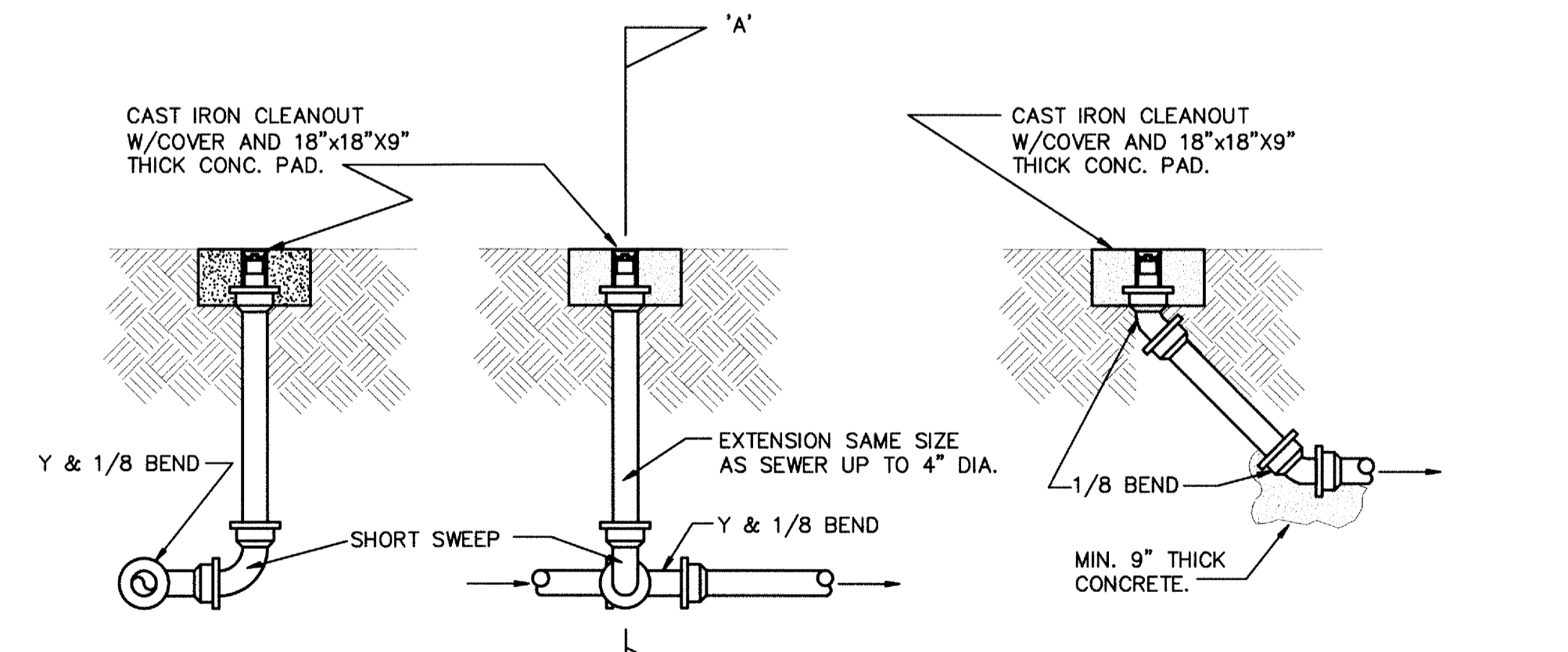
**FLOOR DRAIN DETAIL**  
NO SCALE



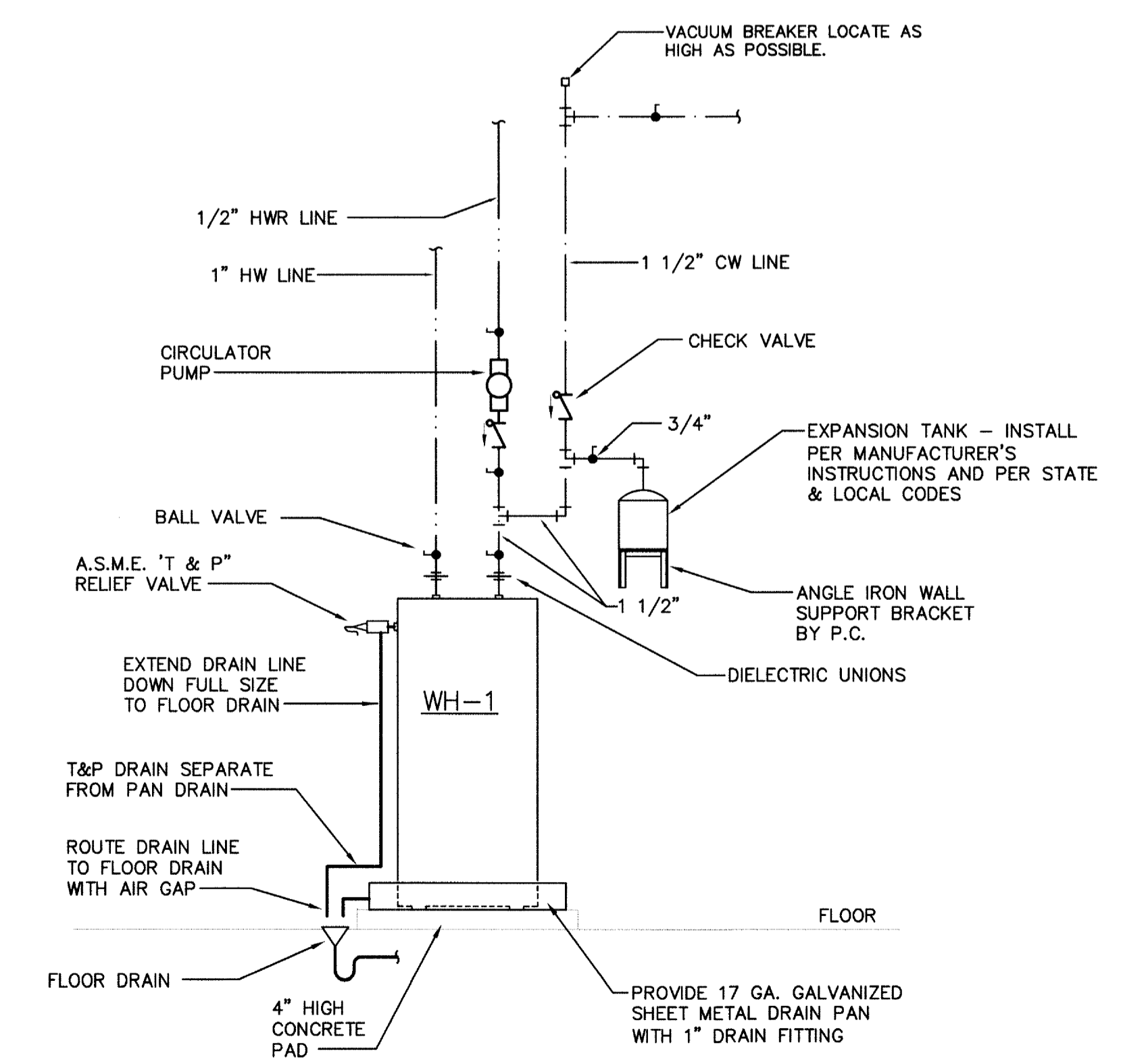
**EQUIPMENT FLOOR DRAIN DETAIL**  
NO SCALE



**FLOOR CLEANOUT DETAILS**  
NO SCALE



**GRADE CLEANOUT DETAILS**  
NO SCALE



**WH-1 PIPING SCHEMATIC**  
NO SCALE

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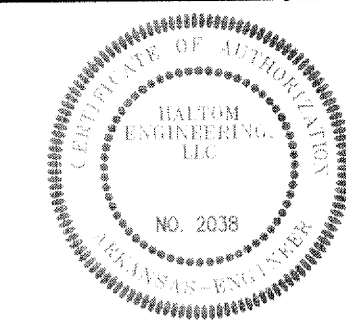
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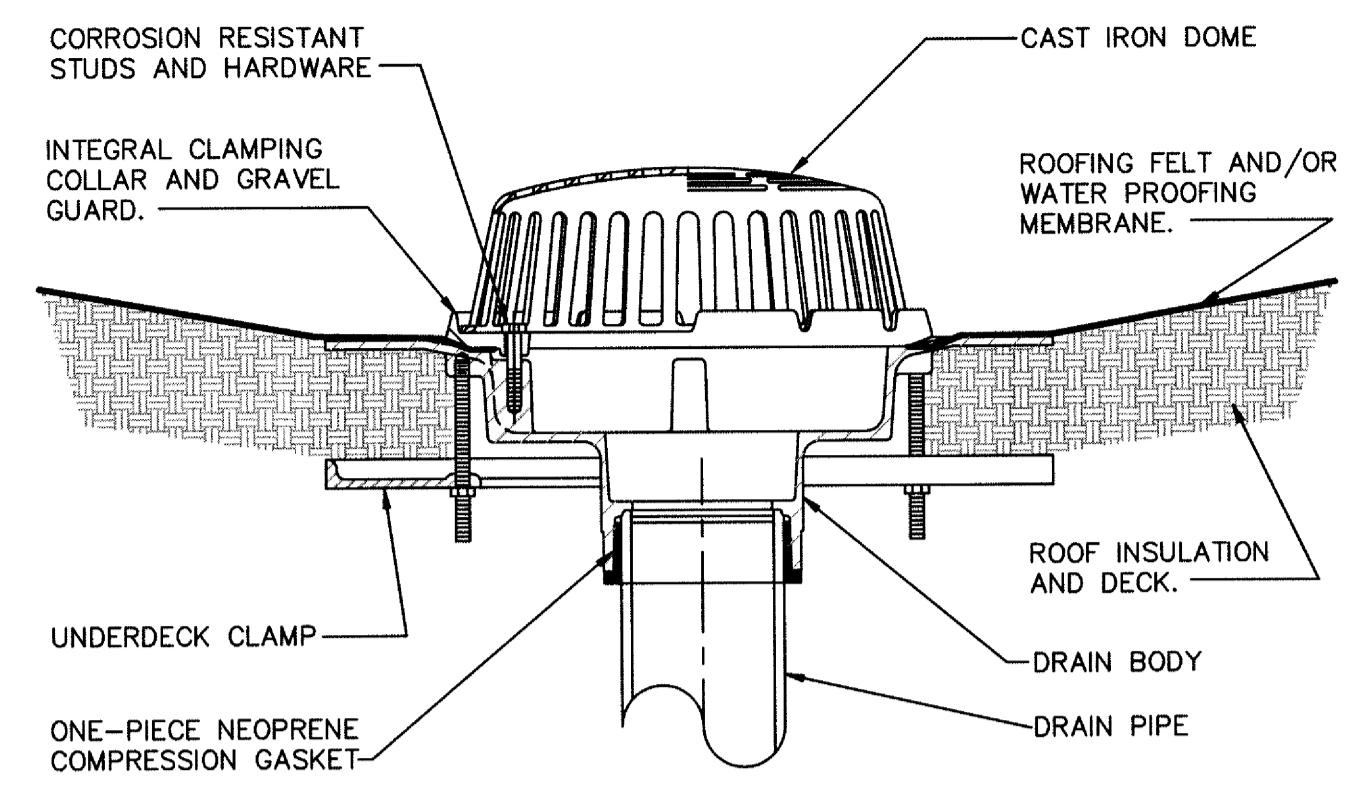
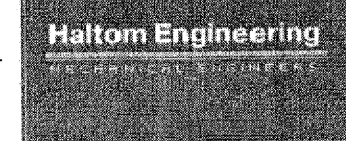
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**DETAILS - PLUMBING**

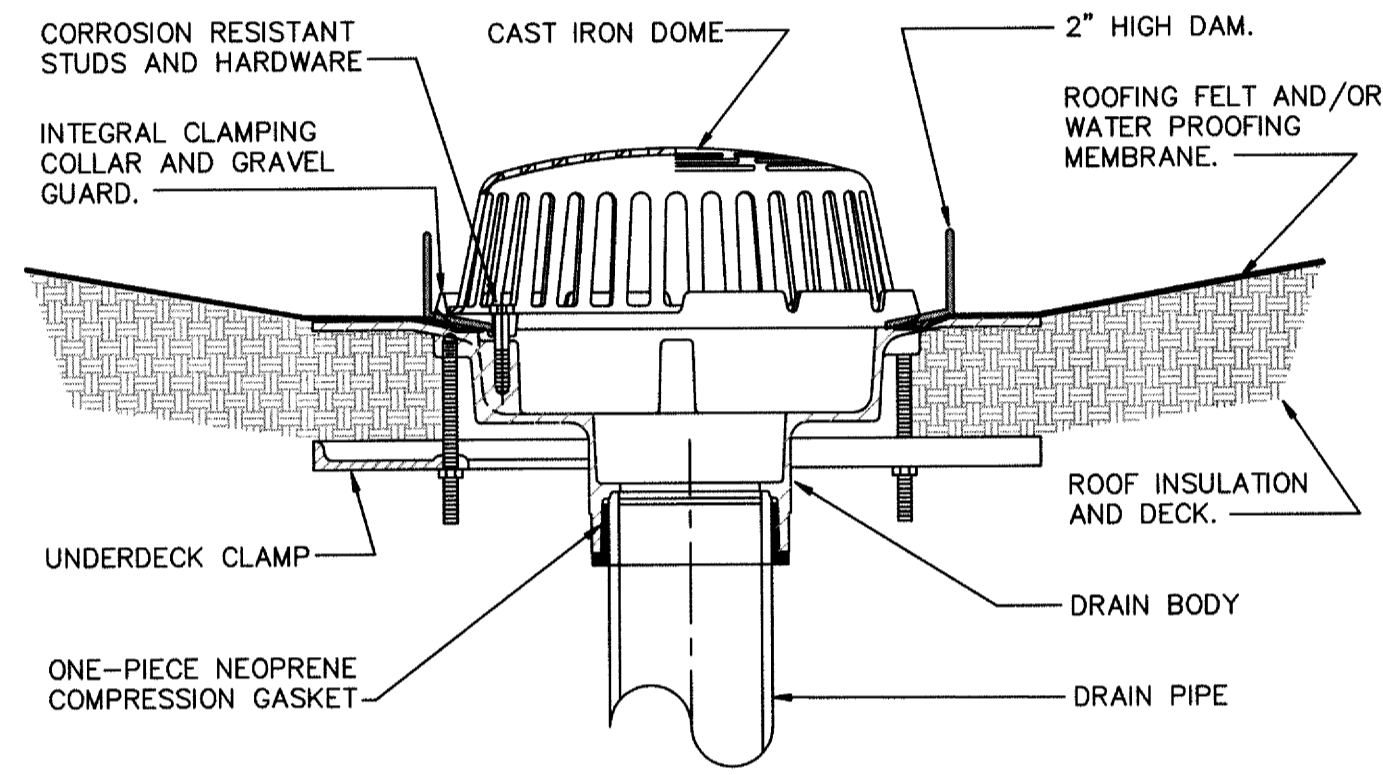


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**ROOF DRAIN DETAIL**  
 NO SCALE

**NOTE:**  
 1. PROVIDE EXTENSION FLANGES AS REQUIRED.  
 2. PROVIDE BEARING PAN AS REQUIRED.



**OVERFLOW DRAIN DETAIL**  
 NO SCALE

**NOTE:**  
 1. PROVIDE EXTENSION FLANGES AS REQUIRED.  
 2. PROVIDE BEARING PAN AS REQUIRED.

**HEAT TRACE SPECIFICATION**

- FURNISH A COMPLETE UL LISTED SYSTEM OF PIPE HEATING CABLE FOR FREEZE PREVENTION COMPLETE WITH COMPONENTS, INSTALLATION ACCESSORIES, AND HEAT TRACING CONTROLLERS INSTALLED IN STRICT ACCORDANCE WITH ARTICLE 427 OF THE NATIONAL ELECTRIC CODE. COORDINATE ELECTRICAL CONNECTION BETWEEN CONTROLLER AND CABLE WITH ELECTRICAL CONTRACTOR.
- THE HEATING CABLE SHALL CONSIST OF (2) 16 AWG NICKEL-COATED-COPPER BUS WIRES EMBEDDED IN A RADIATION CROSS-LINKED POLYMER CAPABLE OF REGULATING ITS POWER OUTPUT IN RESPONSE TO TEMPERATURE CHANGES ALL ALONG ITS LENGTH WITH A SELF-REGULATING INDEX OF NO LESS THAN 90% BETWEEN 50°F AND 140°F. THE HEATING CABLE SHALL BE COVERED WITH A RADIATION CROSS-LINKED MODIFIED POLYOLEFIN DIELECTRIC JACKET (2,000 PSI MINIMUM) WHICH IN TURN SHALL BE COVERED WITH A TINNED COPPER BRAID (3.0 OHMS/1,000 FT. MAXIMUM ELECTRICAL RESISTANCE) AND AN OUTER MODIFIED POLYOLEFIN JACKET. VOLTAGE SHALL BE 208 (COORDINATE WITH ELECTRICAL CONTRACTOR).
- THE DIGITRACE 910 HEAT TRACING CONTROLLERS SHALL BE UL LISTED AND CAPABLE OF OPERATING AT 208V (COORDINATE WITH ELECTRICAL CONTRACTOR) WITHOUT MODIFICATION. THE CONTROLLER SHALL BE FULLY RATED TO 30A AT AMBIENT TEMPERATURES UP TO 140°F. UNIT SHALL HAVE 30MA GROUND FAULT TRIP WITH SEPARATE SETTING FOR GROUND FAULT ALARM. ENCLOSURE SHALL BE NEMA 4X WITH CONTROL AND MONITOR ADJUSTMENT KEYS AVAILABLE WITHOUT EXPOSURE OF THE INTERNALS TO THE ENVIRONMENT. UNIT SHALL HAVE FRONT PANEL KEYSTROKE LOCKOUT FEATURE TO PREVENT UNAUTHORIZED PROGRAMMING CHANGES. THE MICROPROCESSOR CONTROLLER SHALL SUPPLY A COMMON SOLID-STATE SWITCH FOR 208V (COORDINATE WITH ELECTRICAL CONTRACTOR) REMOTE ALARM PROGRAMMABLE FOR OPEN OR CLOSED ON ALARM. THE CONTROLLER SHALL CYCLE THE HEAT TRACING (SETTABLE FROM 5-24 HOURS) REGULARLY TO CONFIRM PROPER SYSTEM OPERATION. UNIT SHALL HAVE INDIVIDUAL LOCAL ALARM LIGHTS FOR THE FOLLOWING:
  - LOW TEMPERATURE
  - HIGH TEMPERATURE
  - LOW CURRENT
  - GROUND FAULT
  - SENSOR FAILURE
- UNIT SHALL INCLUDE "POWER ON" AND "HEATER ON" INDICATION LIGHTS.
- TWO CONTROLLERS ARE REQUIRED WITH (2) 30A CIRCUITS.
- ALL POWER, SPLICE, AND TEE CONNECTIONS MUST BE MADE UP USING RE-ENTERABLE, NEMA 4X, 6P, QUICK-CONNECT COMPONENTS, REQUIRING NO STRIPPING OF THE CORE INSULATOR. NO HEAT SHRINK COMPONENTS WILL BE ALLOWED IN MAKING THESE CONNECTIONS.
- ALL CONDENSATE, SANITARY, CW, HW, AND HWR WATER PIPING INSTALLED IN AREAS SUBJECT TO FREEZING SHALL BE INSULATED PER THE FOLLOWING SCHEDULE:
 

PIPE SIZE	FIBERGLASS INSULATION THICKNESS
ALL	1"
- THE PRODUCT SHALL BE EQUAL TO XL-TRACE.

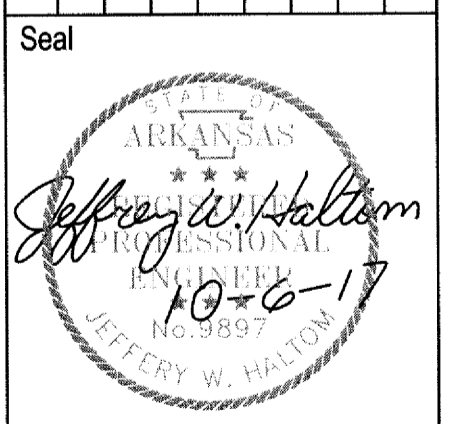
**PLUMBING SPECIFICATIONS**

- LICENSED PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY LOCAL CODE.
- WATER SUPPLY SYSTEM AND SEWER SYSTEM SHALL BE PERMITTED AND INSPECTED BY LOCAL AUTHORITIES PRIOR TO BUILDING OCCUPANCY AND PROJECT CLOSEOUT.
- THE WORK UNDER PLUMBING SECTION SHALL INCLUDE ALL LABOR, SERVICES, MATERIALS, EQUIPMENT, AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING WORK, AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
- SHOULD THERE BE ANY DISCREPANCIES OR A QUESTION OF INTENT, REFER THE MATTER TO THE ENGINEER OR ARCHITECT FOR A DECISION BEFORE ORDERING ANY EQUIPMENT OR MATERIALS, OR BEFORE STARTING ANY RELATED WORK.
- WHERE WORK CONNECT TO THAT OF ANOTHER TRADE OR TO PIPING OR EQUIPMENT IN PLACE, FIELD MEASUREMENTS SHALL BE MADE TO MAKE CONNECTING WORK COME TRUE AND LINE UP WITH THE ITEM BEING CONNECTED.
- WHERE WORK OF OTHER TRADES CONNECTS TO EQUIPMENT WHICH IS A PART OF THIS TRADE PROVIDE PROPER CONNECTION(S) TO SUCH EQUIPMENT.
- MINOR ITEMS AND ACCESSORIES OR DEVICES REASONABLY INFERRED AS NECESSARY TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR FOR SUCH SYSTEM, WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR DRAWINGS.
- CAREFULLY CHECK AND COORDINATE THE LOCATION AND LEVEL OF ALL PIPES, DUCTS, ETC. RUN PRELIMINARY LEVELS AND CHECK WITH ALL OTHER CONTRACTORS SO THAT CONFLICTS IN ALL LOCATIONS MAY BE AVOIDED.
- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS, AND OSHA REQUIREMENTS APPLICABLE TO THE PARTICULAR CLASS OF WORK. ALL PERMITS AND FEES FOR PLUMBING WORK SHALL BE PAID BY PLUMBING CONTRACTOR AND SHALL BE INCLUDED IN HIS BID.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS ON THE JOB IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF SEVERAL PARTS OF THE WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF HIS WORK WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND ALL OTHER TRADES ON THE JOB, AND SHALL FIT HIS WORK TO AVOID INTERFERENCE. ANY RELOCATIONS OF DUCTWORK, EQUIPMENT, PIPING, VALVES, ETC., REQUIRED BECAUSE OF AN INTERFERENCE SHALL BE MADE AT THIS CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER.
- SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
- PROVIDE RECORD DRAWINGS INDICATING FINAL PLUMBING SYSTEMS. INDICATE EXACT LOCATION OF EXTERIOR LINES, CLEANOUTS, ETC. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN AUTOCAD RELEASE 2004 FORMAT AND (1) SET OF HARD COPY. SHEET LAYOUT SHALL MATCH CONTRACT DOCUMENTS.
- INSTALL ALL EQUIPMENT, DEVICES, AND ACCESSORIES, ETC. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES AND RECOMMENDATIONS.
- MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE, DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
- ALL PIPE, TUBE, AND FITTINGS SHALL COMPLY WITH LATEST ISSUED CODE AND STANDARDS, UNLESS INDICATED OTHERWISE BY LOCAL CODES.
- WELDING PROCEDURES, WELDERS, AND OPERATORS SHOULD BE CERTIFIED IN ACCORDANCE WITH ASME B 31.1, OR ASME B 31.9, AS APPLICABLE, FOR SHOP AND PROJECT SITE WELDING OF PIPE WORK.
- CERTIFY WELDING OF PIPING WORK USING STANDARD PROCEDURE SPECIFICATIONS BY, AND WELDERS TESTED UNDER SUPERVISION OF, NATIONAL CERTIFIED PIPE WELDING BUREAU (NCPWB).
- PIPE HANGERS AND SUPPORTS
  - HANGERS: CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING UP TO 1-1/2 INCH PIPE; CARBON STEEL, ADJUSTABLE, CLEVIS FOR 2 TO 4 INCH PIPE.
  - WALL SUPPORT: CAST IRON HOOK UP TO 3 INCH PIPE; WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP 4 INCH PIPE AND OVER.
  - COPPER PIPE SUPPORT: CARBON STEEL RING, ADJUSTABLE, COPPER PLATED.
  - PROVIDE 18 GAGE GALVANIZED STEEL SHIELD OVER INSULATION IN 180 DEGREE SEGMENTS, MINIMUM 12 INCHES LONG AT PIPE SUPPORT.
- FLASHING
  - METAL FLASHING: 26 GAGE GALVANIZED STEEL.
  - FLASH VENT PIPES PROJECTING 6 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE AS REQUIRED BY THE ROOFING SUPPLIER.
  - ALL FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS.
- COPPER TUBE AND FITTINGS
  - COPPER TUBE: ASTM B 88 TYPE (WALL THICKNESS), AS INDICATED, FOR EACH SERVICE; HARD-DRAWN OR SOFT-DRAWN TEMPER, AS INDICATED, EXCEPT AS OTHERWISE INDICATED.
  - CAST COPPER SOLDER JOINT FITTINGS: ANSI B16.18.
  - WROUGHT COPPER SOLDER JOINT FITTINGS: ANSI B16.22.
- BRASS PIPE FITTINGS
  - RED BRASS PIPE: ASTM B 43 IN REGULAR WEIGHT.
  - CAST BRONZE THREADED FITTINGS: ANSI B16.15, CLASS 150, OR 250, AS REQUIRED.
  - CAST BRONZE THREADLESS FITTINGS: ASTM B 61.
- CAST IRON
  - HUB AND SPIGOT, SERVICE WEIGHT:
    - PIPE AND FITTINGS: ASTM A74.
    - JOINTS: ASTM C564, COMPRESSION GASKETS.
  - HUBLESS, SERVICE WEIGHT:
    - PIPE AND FITTINGS: CISPI 301.
    - JOINTS: ASTM C564, COMPRESSION GASKETS WITH ASTM C1277 SHIELDED HUBLESS COUPLINGS.
- PLASTIC PIPES AND PIPE FITTINGS
  - POLYVINYL CHLORIDE PIPE (PVC): ASTM D 1785
  - POLYVINYL CHLORIDE SEWER PIPE (PVC): ASTM D 2729
  - POLYVINYL CHLORIDE DRAIN, WASTE, AND VENT PIPE (PVC-DWV): ASTM D 2665
  - POLYVINYL CHLORIDE TYPE PSM SEWER PIPE: ASTM D 3034
- PVC FITTINGS:
  - SCHEDULE 40 SOCKET: ASTM D 2466
  - SCHEDULE 80 SOCKET: ASTM D 2467
  - SCHEDULE 80 THREADED: ASTM D 2464
  - DWV SOCKET: ASTM D 2665
  - SEWER SOCKET: ASTM D 2729
  - SOLVENT CEMENT: ASTM D 2564
  - SOLVENT CEMENT (TO JOINT PVC TO ABS): ASTM D 3138
- INSULATION
  - MANUFACTURERS INSULATION PRODUCTS SHALL BE TYPE AS MANUFACTURED BY KNAUF FIBER GLASS, OWENS-CORNING FIBERGLAS, AND SCHULLER.
  - INSULATED WATER PIPING INSIDE BUILDING PIPING SHALL BE INSULATED WITH FIBERGLASS HEAVY DENSITY INSULATION HAVING A THERMAL CONDUCTANCE IN THE RANGE OF 0.23 AT A MEAN TEMPERATURE OF 75°F. PROVIDE INSULATION WITH A FACTORY APPLIED FIRE RETARDANT, ALL SERVICE JACKETS AND EMPLOY THE SAME ADHESIVE AS IS USED ON THE JACKET LAP SEAL. ALL VALVES AND FITTINGS SHALL BE INSULATED WITH THE SAME THICKNESS INSULATION AS SPECIFIED FOR PIPING SYSTEMS. INSULATION SHALL BE APPLIED TO THE FOLLOWING PIPING SYSTEM WITH THICKNESS AS INDICATED.
    - PIPING SYSTEM, PIPE SIZE, THICKNESS  
DOMESTIC COLD WATER, STORM DRAINAGE AND CONDENSATE PIPE, ALL SIZES, 1/2" DOMESTIC HOT WATER, 2" AND SMALLER, 1"
    - FURNISH AND INSTALL ZESTON 2000 OR PROTO PVC INSULATED FITTING COVERS ON ALL PIPE FITTINGS, FLANGES, VALVES, AND PIPE TERMINATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
    - PIPE INSULATION SHALL RUN CONTINUOUS THROUGH NON-RATED WALLS AND PARTITIONS, EXCEPT WHERE PIPE PASSES THROUGH FIRE RATED WALLS. PENETRATION OF FIRE RATED WALLS SHALL BE ACCOMPLISHED BY MEANS OF FIRE RATED PIPE PENETRATIONS, AS DETAILED BY U.I.
- SANITARY SEWER, STORM DRAINAGE, AND CONDENSATE PIPE SHALL BE CAST IRON OR DWV SCHEDULE 40 PVC. PVC SHALL BE WRAPPED WITH CODE APPROVED INSULATION IN RETURN AIR PLENUMS.
- INSULATE ALL ABOVE GRADE DOMESTIC WATER PIPE, STORM DRAINAGE (INCLUDING ROOF DRAIN BODIES), AND COLD CONDENSATE DRAIN PIPES.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE "K" SOFT DRAWN COPPER PIPE WRAPPED WITH VINYL TAPE. NO JOINTS BELOW FLOOR SLAB.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE HARD DRAWN TYPE "L" COPPER WITH WROUGHT SOLDER JOINTS. (LEAD FREE SOLDER)
- VALVES SHALL BE FULL PORT BALL VALVES. NIBCO, OR EQUAL.

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Rev.	Date	Revision Description



Issue Date: 10/6/2017  
 Project No: F10472  
 Drawn By: RL  
 Checked By: JH  
 Sheet Title:

**DETAILS AND**  
**SPECS -**  
**PLUMBING**

**P203**

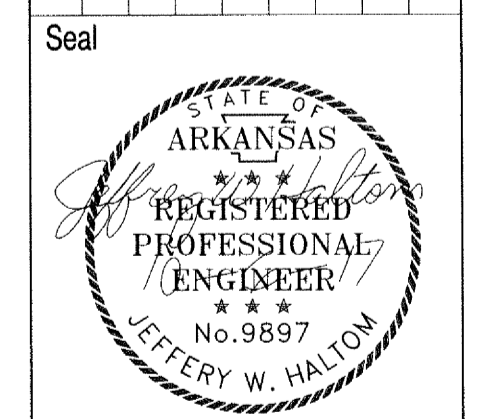
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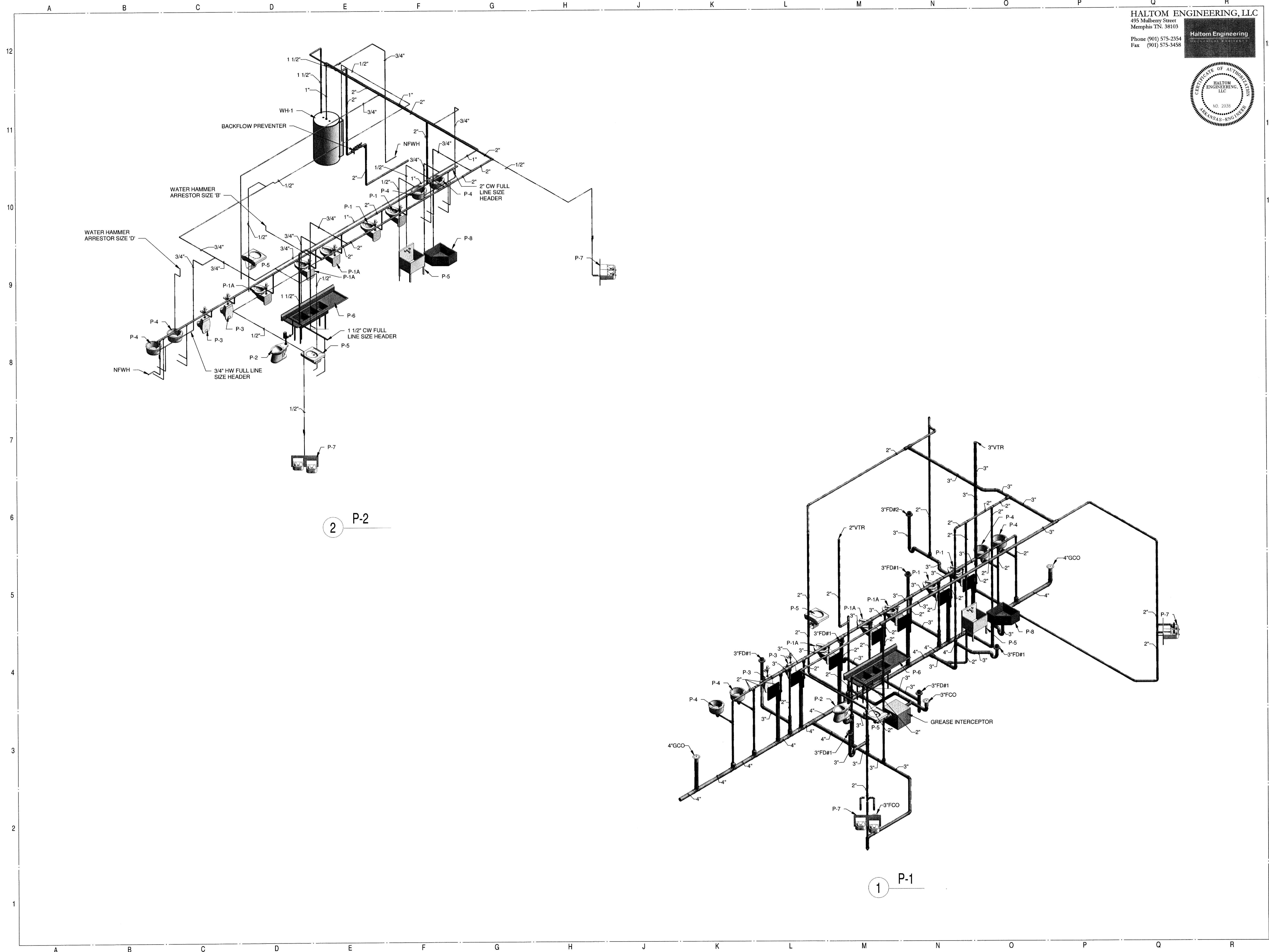
Rev.	Date	Revision Description



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 Checked By: JH  
 Sheet Title:

**RISERS -  
 PLUMBING**

**P301**



**GENERAL NOTES:**

**I. GENERAL**

- A. These GENERAL NOTES present and/or summarize key project information for the plans reader's convenience. See also individual PLAN NOTES for further details and requirements.
- B. All references to reference standards herein are to most recent issue in effect as of the date of these documents, unless noted otherwise in the General Notes or on the plans.
- C. Elevations: All elevations are referenced to Ground Floor Slab = 0' unless otherwise shown on plans are referenced to this datum unless noted.
- D. Submit Shop Drawings, Project Data and Samples.
  1. Identify prominently on drawings each and all resubmittals by number.
  2. Identify any changes which have been made other than those requested by the A/E.
  3. Submittals failing to conform to the above will be returned for resubmittal.

**II. DESIGN CRITERIA**

- A. Building Code: IBC 2012 W/ LOCAL AMENDMENTS
- B. Superimposed Design Loads:
  1. See plan notes for live and dead loads.
  2. Wind:
    - a. Design speed = 115 MPH
    - b. Importance factor = 1.0
    - c. Exposure = C
    - d. Fully enclosed
  3. Ground Snow: 10 psf, Importance factor = 1.0
  4. Seismic Design Data:
    - a. Seismic Importance Factor, I 1.0
    - b. Seismic Risk Group II
    - c. Mapped Spectral response acceleration, S<sub>s</sub> 1.329
    - d. Mapped Spectral response acceleration, S<sub>1</sub> 0.462
    - e. Site Class D
    - f. Spectral response coefficient, S<sub>s1</sub> 0.886
    - g. Spectral response coefficient, S<sub>s1</sub> 0.474
    - h. Seismic design category D
    - i. Basic Seismic Resisting System .....
      - 1. Special Reinforced Masonry Shearwalls 0.177
      - 2. Response Modification Factor, R 5.0
      - k. Analysis Procedure Used...Equivalent Lateral Force
- C. Foundations:
  1. See Geotechnical/Subsurface Investigation Report by Anderson Engineering Consultants, Inc. dated 9/21/2017.
  2. Spread Footings: Allowable bearing pressure 1250 psf. Subgrade beneath the footing shall be compacted to at least 98% of the maximum density determined by ASTM D698 (Standard Proctor).
  3. The contractor shall take all necessary measures to protect the subgrade below the footings and slab on grade from damage due to freeze/thaw, erosion, scour and loss of bearing during construction.
  4. Contractor shall not allow water to pool in excavations before or after concrete is placed. If bottoms of excavations become softened due to water from rain or other sources before footing is cast, the softened material shall be excavated and replaced with concrete or compacted fill.
  5. Do not start foundation work until the subgrade settlement due to the fill placement has stopped. See Geotech report for settlement monitoring, etc.

**III. TESTING AND INSPECTION**

- A. Foundations and Earthwork. Geotechnical engineer/testing laboratory to be engaged by Contractor with A/E approval. Testing lab to perform compaction tests as required and submit reports to A/E.
- B. Materials and Procedures. Testing Laboratory to be engaged by contractor with A/E approval.
  1. Perform concrete sampling and tests as required by ACI 301. Submit test reports to A/E.
  2. Perform Mortar and grout sampling as required by ACI 530.1. Submit test reports to A/E.
- C. Seismic Inspections and Testing: Refer to IBC, Chapter 17. Special inspections or seismic force resisting systems are required. Such inspections shall be performed by qualified special inspectors. Submit reports to A/E.

**IV. EARTHWORK**

- Refer to the Geotechnical Report for complete earthwork requirements. Where the following requirements conflicts with the Report, the requirements or recommendations in the Report shall be governing.
- A. Site Preparation.
  1. Concrete pavement covering existing site shall be removed. Due to the location of the site, it may not be practical to proof roll the exposed subgrade. Therefore, the exposed subgrade should be evaluated by the geotechnical engineer to determine its adequacy. Should soft soils be identified, stabilization or undercut will be required.
  2. Within construction area, compact top 6" of exposed subgrade to at least 95% of the max. density by ASTM D 698, prior to fill placement.
  3. A geotextile fabric should be placed over soft soils at a depth of 2.5' ft below the bottom of footing. A thickened bridge lift of 12-18 inches may be placed above the fabric to allow placement of subsequent fill.
- B. Structural Fills. Select fill material compacted in 8" loose lifts. See above for fill placement and settlement monitoring.
  1. Fill subgrade under building foundations: minimum density 98% of the maximum density by ASTM D 698.
  2. Subgrade under slabs-on-grade: minimum density 100% of maximum density by ASTM D698.
  3. Granular subbase under slab-on-grade: 4" thick clean coarse gravel or sand. See geotechnical report for the exact gradation required for the granular base. Compact to at least 70% of the maximum relative density by ASTM D4253 and D4254.
  4. Provide 15 mil. thick vapor barrier. Tape all joints.
- C. Groundwater Control. See geotechnical report.

**V. CAST-IN-PLACE REINFORCED CONCRETE:**

- A. Design Code: ACI 318 - Strength Design. Reference Standard: ACI 301. Contractor to maintain copy at job site.
- B. Mix Design shall be documented in accord with ACI 301.
  1. Mix design shall be submitted to A/E for approval prior to construction.
  2. Field slumps recorded at job site shall not exceed the slump established for the mix design.
- C. Type Concrete. (28 day compressive strengths)
  1. Footings, slab-on-grade, grade beams: 3,000 psi N.W.
  2. All other structural concrete shown on these plans: 4,000 psi N.W. u.n.
  3. All concrete exposed to the elements shall:
    - a. be air-entrained 5% (± 1%), and
    - b. have crushed limestone aggregates.
  4. All concrete in walls with only one plane of rebar shall have fiber reinforcement added to the concrete at the rate of 1.5 lbs/cyd.
- D. Formwork.
  1. Formwork and shoring shall be designed by a registered engineer hired by the contractor.

**VI. CONCRETE MASONRY:**

- A. Design Criteria: ACI 530 and ACI 530.1.
  1. Minimum compressive strength of masonry: 1500 psi.
  2. Masonry Units (load bearing and non-load bearing walls):
    - a. Hollow Units: ASTM C 90, Grade N, light or normal weight, Type 1, moisture controlled. Min. compressive strength of units = 1900 psi on net area.
    - 2. Provide special masonry units in bond beams in walls to allow placement of rebar in grout bed with at least 2" of grout over the top of rebar.
- B. Mortar: ASTM C 270, Type S, min. compressive strength = 1800 psi. Masonry Cement (ASTM C91) shall not be allowed in CMU walls. Use Type M mortar in walls below grade or retaining wall stems.
- C. Grout: ASTM C 478, min. compressive strength = 3000 psi. Use of concrete in lieu of grout will not be allowed.
- D. Reinforcement.
  1. Horizontal Joint Reinforcing: Std. Dur-o-wal @ 16" o/c. LADUR type, hot dipped galvanized, u.n. Lap 12 inch. Vertical and Horizontal Reinforcing: ASTM A 615, Grade 60. See plans for size, spacing, lap length, etc. Lapped rebar must be tied together.
- E. All masonry units which are to be reinforced and grouted shall be of a 2-cell type such that the cells align vertically when placed in running bond, allowing continuity of vertical reinforcement. Stretcher units shall not be allowed for use. Use only plain end or double corner units.
- F. All masonry construction shall be in running bond, U.N.
- G. All reinforcement shall be centered in the wall, U.N. Maximum tolerance (±) 1/4". Use positioning devices, if necessary.
- H. Submit product certifications, mix design for grout and mortar, and rebar shop drawings as required by ACI 530.1. Submit masonry joints (at lintels, headers, intersections, beam support, etc.) and masonry column layout showing location, size and reinf. testing and inspections. Per ACI 530.1 by the contractor's testing lab. Submit test and inspection reports.
- I. Provide temporary bracing of the masonry walls until all the structural elements of the floor, roof and lateral bracing systems supporting the walls are completely installed and the wall is permanently attached to these systems.

**VII. STRUCTURAL STEEL:**

- A. Design, Fabrication, and Erection. AISC 360: Specification for Structural Steel Buildings.
  1. Wide Flange sections: ASTM A992, Gr. 50.
  2. Structural tube: ASTM A500, Gr. B, 46 ksi.
  3. Misc. structural steel: ASTM A36.
- B. Connections. AISC Manual standard connections unless noted.
  1. High-strength bolts: ASTM A 325 bearing type. Standard AISC "Usual Gage" dimensions shall be used for locating holes for bolts, expansion anchors, etc. in all angles, beam flanges, etc., u.n.
  2. Welds: AWS D1.1, Series E70XX. Provide 3/16" fillet welds all around, u.n. Return welds around corners and ends.
  3. Headed Studs: Nelson type H4L or S3L, ASTM A108 (Min. fy=50 ksi). All studs shall be stud welded per stud manufacturer's recommendations.
- C. Tolerances. AISC Code of Standard Practice.
  1. All structural steel exposed to view in the finished building shall be considered AESS whether or not designated as such on plans. Such steel shall meet the tolerances for AESS, all welds shall be watertight and ground smooth.

**VIII. WOOD FRAMING NOTES:**

- A. STRUCTURAL WOOD FRAMING
  1. Design Standard: National Design Specification, NFOA and Supplements.
  2. Sawn Lumber:
    - a. Columns, beams, rafters, headers: Southern Yellow Pine, (Grade = No.2), kiln dried (19% moisture content max.).
    - b. All framing members in contact with concrete or masonry foundation, slab-on-grade or walls shall be preservative treated.
    - c. Wood nailers on steel beams, cmu walls, etc. shall be double 2x, u.n. Width to match beam flange and/or wall.
    - d. Finger jointed lumber shall not be permitted in jombs, ends of shearwalls or any other tension member.
  3. Plywood:
    - a. Roof deck: 5/8" APA Rated structural sheathing 32/16 span rating, exterior grade, u.n.o.
  4. Connections:
    - a. Nailed connections.
      - 1) Nailing at connecting hardware per manufacturer recommendations to develop full capacity of the connection.
      - 2) All nails common wire gauge, u.n.
      - 3) Power driven nails subject to A/E approval. Submit technical data. Different nail spacing may be required.
    - b. Connection hardware to be by Simpson Strong-Tie Co. or equivalent. Where indicated on plans, hardware designated represents connection details contemplated in design. Connection hardware, in general, to develop connected member capacity. Submit shop drawing, technical data, etc. indicating connection hardware proposed for use.
    - c. Powder actuated fasteners (Hilti, Ramset, Redhead, etc.) subject to A/E approval. Submit proposed use and technical data.
    - d. Bolted Connections.
      1. All bolts shall be minimum 1/2" dia, A307, u.n.
      2. Provide bolt holes 1/16" diameter larger than the bolt diameter. Provide matching nut. Provide 1/8" thick plate washers at each end of bolts.
      3. Anchor bolts shall be Heavy Hex head with 3/16"x2"x2" washer at each end of bolt, u.n.
    - e. Provide connections such that shrinkage of wood members parallel to grain is accommodated, such as horizontal slots in steel plates, etc.
    - f. All fasteners (nails, bolts, screws, etc.) and connectors (joist hangers, straps, ties, etc.) in contact with preservative treated lumber or exposed to moisture shall be hot dipped galvanized.
  5. Erection/Construction Phase Stability:
    - a. Member design stability. Studs, joists, etc. typically are designed for design loads noted anticipating lateral support from wall sheathing, floor and roof decking, etc. Contractor shall provide sheathing, decking, etc., noted prior to loading members or consider and provide, if necessary, suitable temporary lateral bracing or support.
  6. Do not notch, cut or drill joists, beams or load bearing studs without prior approval of the A/E.

**IX. TEMPORARY BRACING OF STRUCTURE**

- A. Contractor shall provide temporary bracing as required until all lateral force resisting elements are in place (such as roof diaphragms, bracing, shearwalls, etc.)
- B. Contractor shall provide all erection stability bracing, bridging, blocking, etc. as required during construction.
- C. Contractor shall be solely responsible for the construction means and methods required to safely achieve the conditions depicted in the contract documents.

**X. EPOXY OR MECHANICAL ANCHORS IN MASONRY AND CONCRETE**

- A. Epoxy Anchoring: Hilti HIT-HY 200 Epoxy Adhesive Anchor system or approved equal.
- B. Mechanical anchor: Hilti Kwik Bolt TZ or approved equal.
- C. All anchors shall be hot dipped galvanized.
- D. In concrete masonry, the anchors shall not be located in a head joint or within 2" of a head or T joint. Follow manufacturer's recommendations for installation procedures.
- E. Anchors in CMU walls must be centered in grouted cells and must have at least 12 inches of CMU wall all around the anchor fully grouted.

**XI. SPECIAL INSPECTIONS**

- A. Special structural inspection & verification by certified Special Inspector satisfactory to the building official is required in conformance with IBC code sections 1703, 1704, 1705 and 1707.
- B. The special inspector shall send copies of all structural inspection reports directly to the contractor, A/E and the building official. Any construction which fails to meet the contract documents shall immediately be brought to the A/E's attention. Special inspection requirements apply also to all vendor designed components.
- C. Material testing does not constitute special inspection. Such testing shall be done by an independent testing lab.
- D. See IBC Chapter 17 for details of Special Inspection and verification requirements.
- E. The following construction shall be subject to Special Inspection and verification:
  1. Soils (Section 1705.6)
  2. Concrete (Section 1705.3)
  3. Steel (including cold formed steel)(Section 1705.2, 1705.11)
  5. Wood (Section 1705.5, 1705.11)
- F. The contractor shall notify the Special Inspector at least 24 hours prior to the work that is ready for inspection. Contractor shall also provide to the Inspector the necessary documents (approved submittals, etc.) and safe access to the work to be inspected.

**FOOTING SCHEDULE**

MARK	SIZE	DEPTH	REINFORCEMENT FOR (1) FOOTING			
			NO.	SIZE	LENGTH	REMARKS
F36	3'-0"x3'-0"	1'-0"	8	#4	2'-6"	1/2 EA. WAY BOT.
F42	3'-6"x3'-6"	1'-0"	10	#4	3'-0"	1/2 EA. WAY BOT.
W24	2'-0" CONT.	1'-0"	3	#5	1'-6"	© 4'-0" o/c TRANS (BOT.) LONGITUDINAL BOTTOM

NOTES:  
1. F36, ETC. DENOTE ISOLATED COLUMN FOOTING; W24, ETC. DENOTE CONTINUOUS WALL FOOTING.

**ABBREVIATIONS**

A.B.	ANCHOR BOLT	JT.	JOINT
A/E	ARCHITECT/ENGINEER	LDH	LONG DIMENSION HORIZONTAL
A.F.F.	ABOVE FINISHED FLOOR	LLH	LONG LEG/SIDE HORIZONTAL
ANCH.	ANCHOR	LLV	LONG LEG/SIDE VERTICAL
ARCH.	ARCHITECTURAL	L.W.	LIGHTWEIGHT CONCRETE
ATHR	ALL THREAD ROD (A36 GR.)	MIN.	MINIMUM
B.	BASE	MAX.	MAXIMUM
BM	BEAM	(N)	NEW
BRG	BEARING	N.T.S.	NOT TO SCALE
BOTT.	BOTTOM	N.W.	NORMAL WEIGHT CONCRETE
CFV	CONTRACTOR FIELD VERIFY	O.C.	ON CENTER
CLR. CVR.	CLEAR COVER	O.H.	OPPOSITE HAND
CMU	CONC. MASONRY UNIT	O.F.	OUTSIDE FACE
COL.	COLUMN	OSHA	O.S.H.A. REGULATIONS
CONC.	CONCRETE	PL.	PLATE
CONN.	CONNECTION	REIN.	REINFORCING
CONST.	CONSTRUCTION	REMF.	REMAINDER
CONT.	CONTINUOUS	REQ'D	REQUIRED
COORD.	COORDINATE	RMO	ROUGH/MASONRY OPENING
DEG.	DEGREE	RTU	ROOF TOP UNIT
DWGS.	DRAWINGS	S.J.	SAW-CUT JOINT
(E)	EXISTING	S.M.	SIMILAR
E.F.	EACH FACE	SP4	SPACING
E.W.	EACH WAY	SPEC.	SPECIFICATIONS
EA.	EACH	SO.	SQUARE
EL.	ELEVATION	STD.	STANDARD
EOC	EDGE OF CONCRETE	T/F	TOP OF FOOTING
EO	EQUAL	T.O.F.	TOP OF FOOTING
EQUIV.	EQUIVALENT	T&B	TOP AND BOTTOM
EXP.	EXPANSION	T/	TOP OF
F.F.E.	FINISHED FLOOR EL.	T.Y.	TYPICAL
FTG.	FOOTING	U.N.	UNLESS NOTED
F.S.	FOOTING STEP	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAUGE	VERT.	VERTICAL
G.C.	GENERAL CONTRACTOR	WF	WIDE FLANGE
HORIZ.	HORIZONTAL	W.P.	WORK POINT
HT.	HEIGHT	W.W.F.	WELDED WIRE FABRIC
H.S.N.S.	HIGH STRENGTH NON SHRINK	w/	WITH
I.F.	INSIDE FACE		
JST	JOIST		

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**CONCESSION BUILDING -**  
**CITY OF JONESBORO**  
JONESBORO, AR

Rev.	Date	Revision Description



Issue Date: 09/28/2017  
Project No: F10472  
Drawn By: RC  
Checked By: SK  
Sheet Title:

**GENERAL NOTES & SCHEDULES**

**S100**

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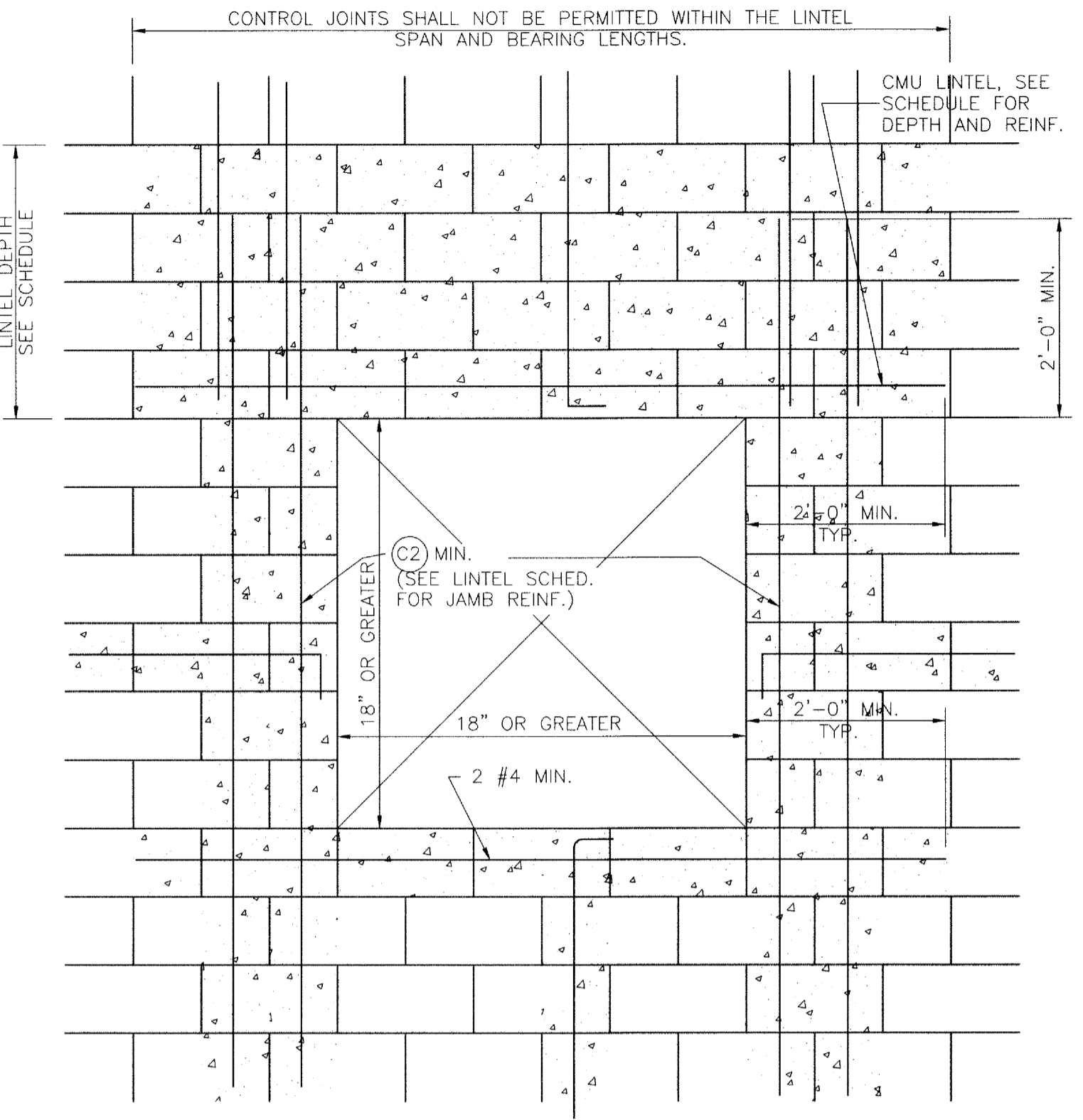
Rev.	Date	Revision Description



Issue Date: 09/28/2017  
 Project No: F10472  
 Drawn By: RC  
 Checked By: SK  
 Sheet Title:

**TYPICAL DETAILS**

**S101**



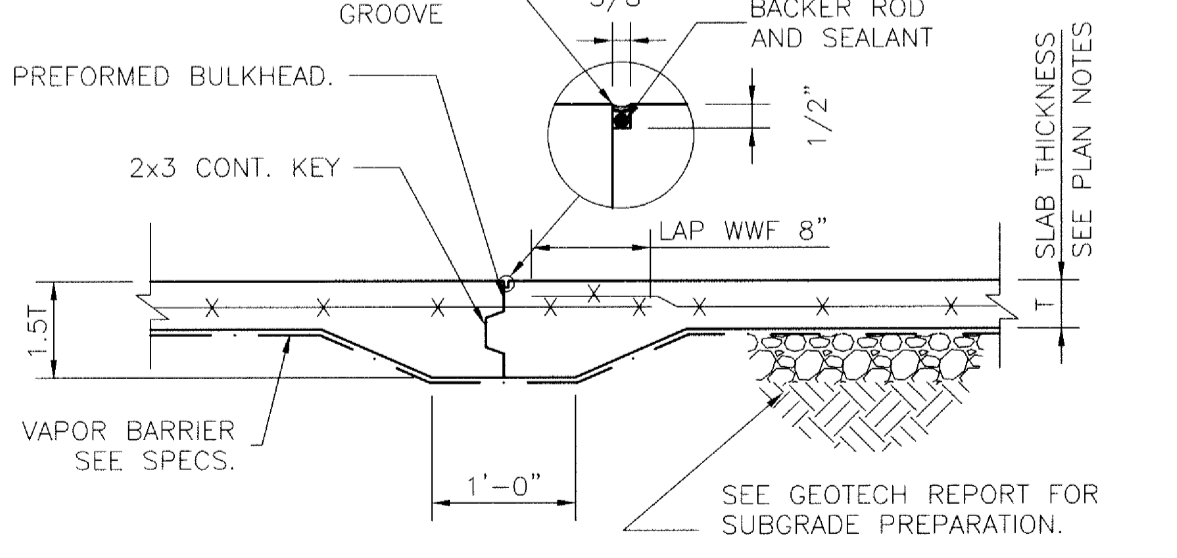
1 TYP. REINFORCED 8" CMU WALL  
 SCALE 3/4" = 1'-0"

**NON-LOAD BEARING BLOCK LINTEL SCHEDULE**

OPENING WIDTH	LINTEL HT.	REIN. @ BOT. OF LINTEL	JAMB (AT EACH END) (SIZE & REINF.)	TYPICAL LINTEL DETAIL
UP TO 5'-4"	8"	2 - #5	(C1)	 LINTEL HT.-(FULL MONOLITHIC GROUT) WALL THICKNESS BOT. REIN. EXTEND 24" AT EA. END OF LINTEL.
5'-5" TO 9'-4"	16"	2 - #5	(C1)	
9'-5" TO 12'-0"	24"	2 - #6	(C2)	
GREATER THAN 12'-0"	SEE PLAN AND SECTIONS			

NOTES:  
 1. LINTEL TO BEAR FULLY ON JAMB, BEARING SEE 3/S101.  
 2. PROVIDE DOWELS TO FTG. TO MATCH VERTICAL REINF. IN JAMB, TYP.  
 3. SHORE LINTEL UNTIL MASONRY HAS ACHIEVED DESIGN STRENGTH.  
 4. (C2) (C3) DENOTES MASONRY COLUMN. SEE 2/S101  
 5. SEE 3/S101 FOR OPENING DETAIL IN CMU WALLS.  
 6. HOOK ENDS OF HORIZ. BAR WHERE FULL 2'-0" EXTENSION IS NOT POSSIBLE.

8 TYP. CONSTRUCTION JOINT DETAIL @ SLAB ON GRADE  
 (@ T = 5" OR LESS)

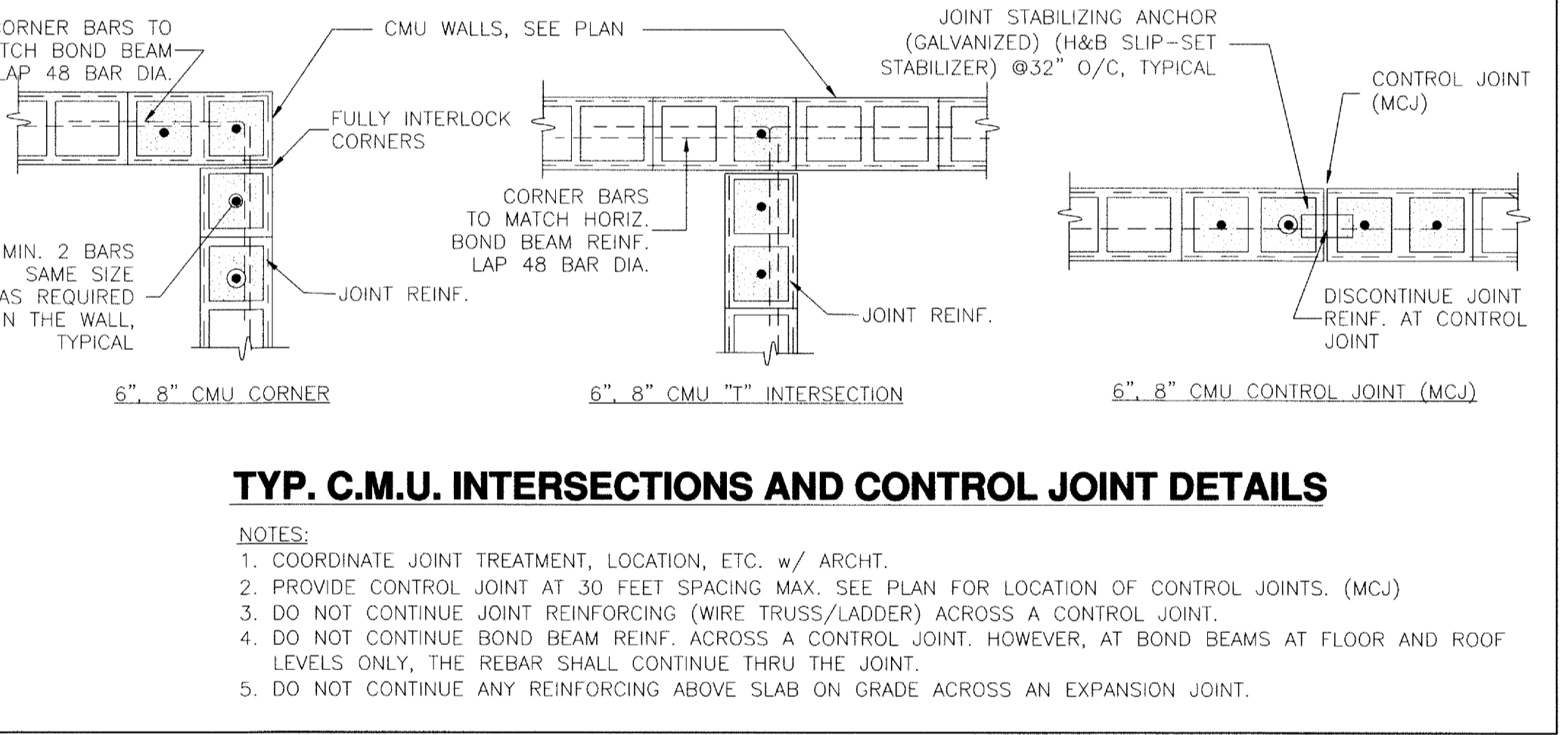


2 TYPICAL MASONRY WALL COLUMNS  
 NOTE: VERT. BAR SIZE TO MATCH WALL VERTS. SEE PLAN NOTES ON S201 FOR WALL REINF. U.N.

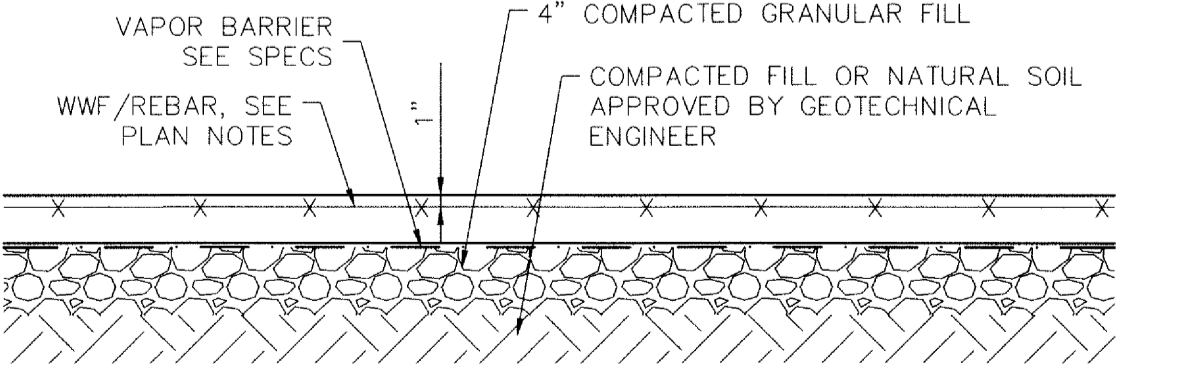
**LOAD BEARING CMU BLOCK LINTEL SCHEDULE**

MARK	OPENING WIDTH	LINTEL HT.	REINF.	JAMB (AT EACH END) (SIZE & REINF.)	TYPICAL LINTEL DETAIL
L1	UP TO 4'-0"	1'-4"	2 - #5 BOT.	(C2)	 LINTEL HT.-(FULL MONOLITHIC GROUT) WALL THICKNESS WALL REBAR, HOOKED AT BOTTOM OF LINTEL TOP & BOT. REIN., EXTEND 24" AT EA. END OF LINTEL.
L2	4'-1" TO 6'-4"	2'-0"	2 - #5 T&B	(C2)	
L3	6'-5" TO 8'-8"	2'-8"	2 - #5 T&B	(C2)	
L4	8'-9" TO 10'-0"	SEE SECTIONS			

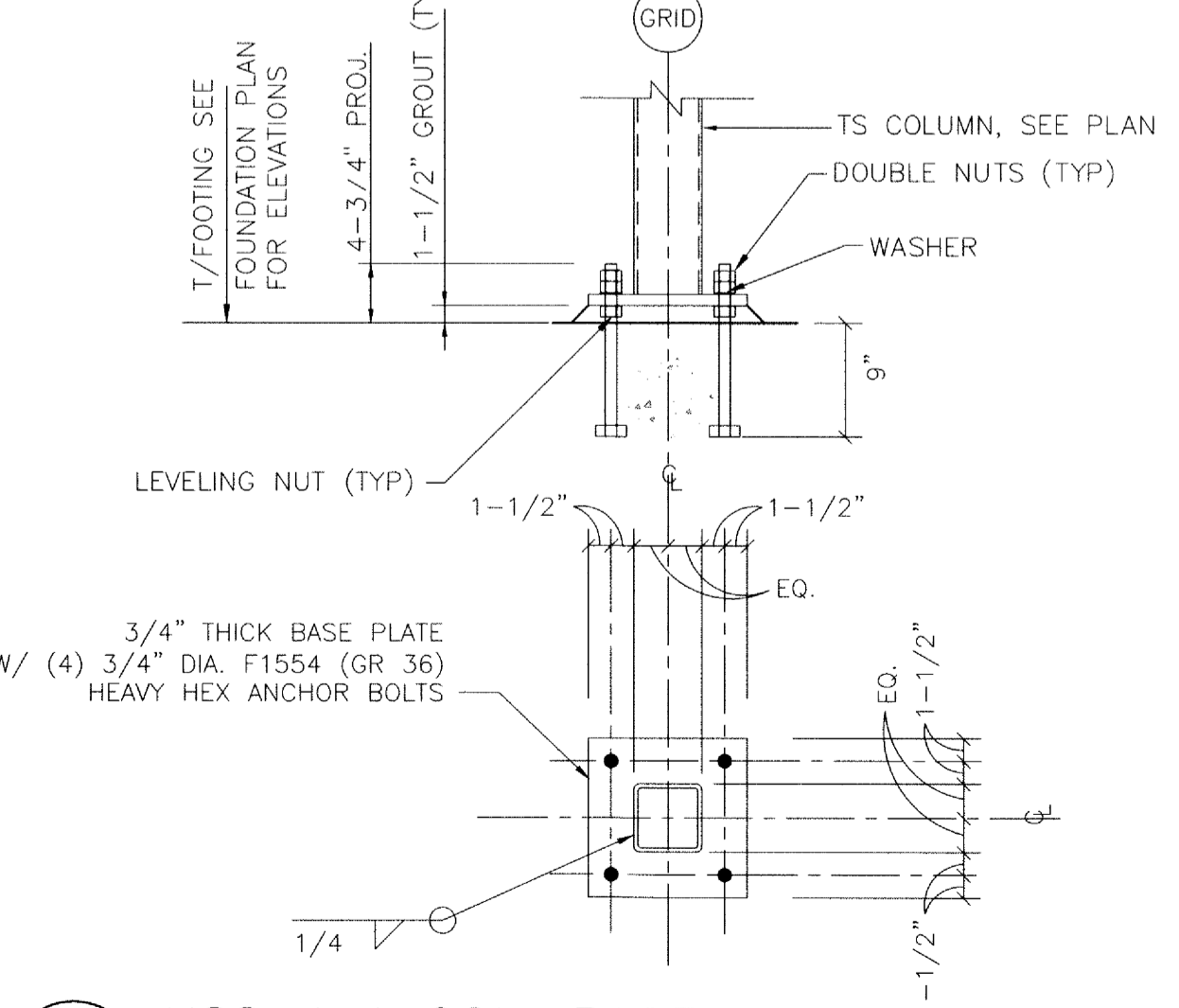
NOTES:  
 1. LINTEL TO BEAR FULLY ON JAMB, BEARING SEE 3/S101.  
 2. PROVIDE DOWELS TO FTG. TO MATCH VERTICAL REINF. IN JAMB, TYP.  
 3. SHORE LINTEL UNTIL MASONRY HAS ACHIEVED DESIGN STRENGTH.  
 4. (C2) (C3) DENOTES MASONRY COLUMN. SEE 2/S101  
 5. SEE 3/S101 FOR OPENING DETAIL IN CMU WALLS.  
 6. HOOK ENDS OF HORIZ. BAR WHERE FULL 2'-0" EXTENSION IS NOT POSSIBLE.



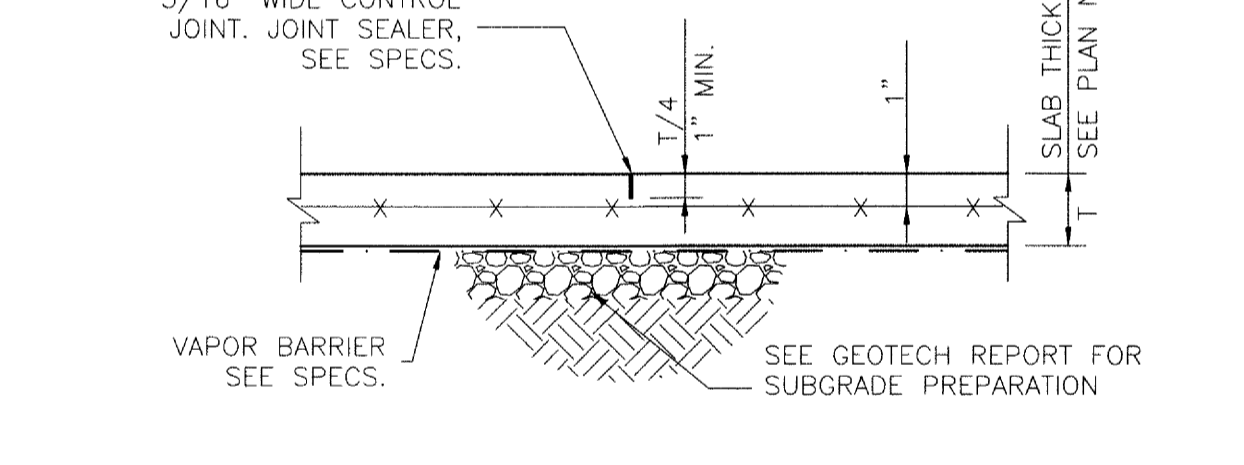
6 TYPICAL MASONRY JOINT DETAILS  
 N.T.S.



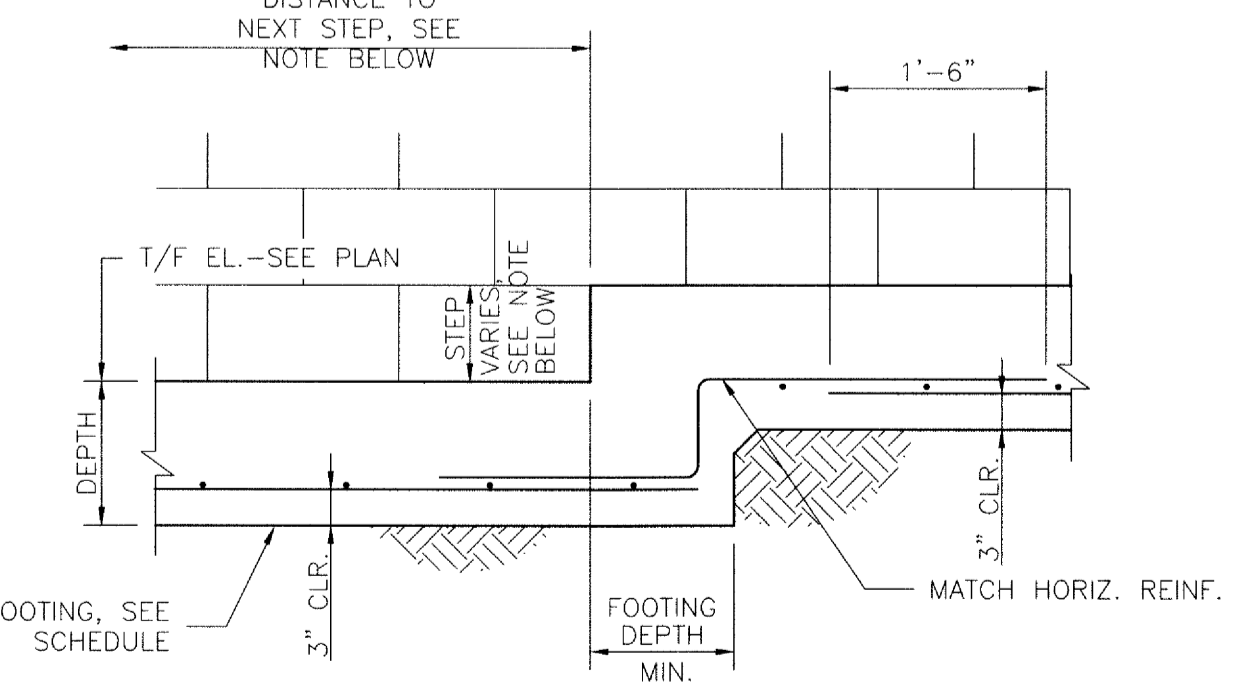
9 TYP. SLAB ON GRADE SECTION  
 (@ T = 5" OR LESS)



10 HSS 4x4 COL. BASE PLATE



7 TYP. CONTROL JOINT @ SLAB ON GRADE  
 (@ T = 5" OR LESS)

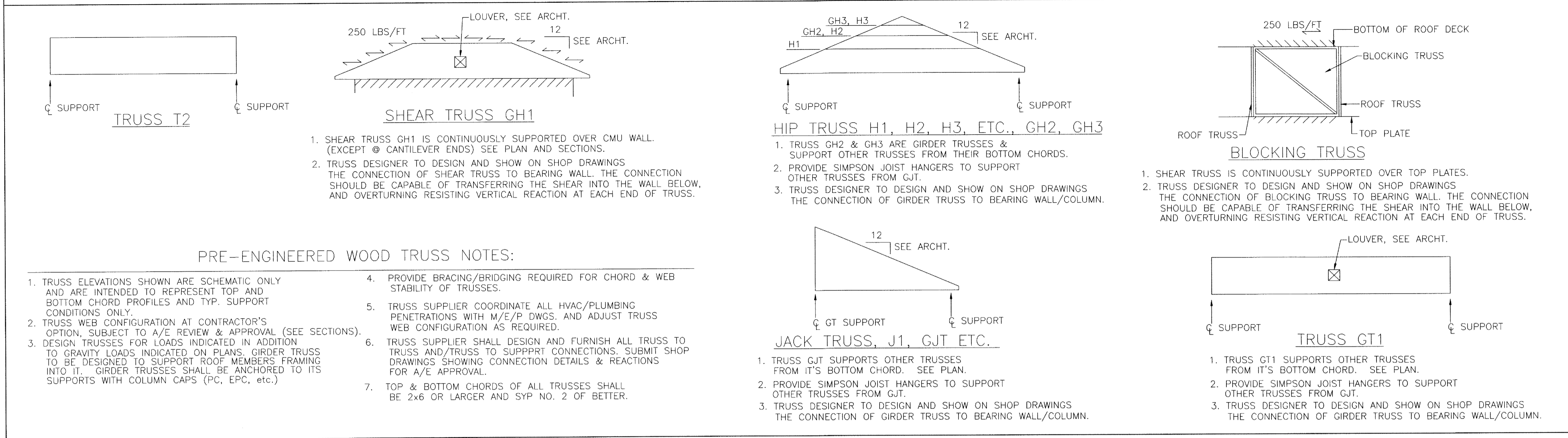


11 TYP. STEPPED FOOTING DETAIL



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**TYPICAL WOOD PLATED TRUSS PROFILES & NOTES**

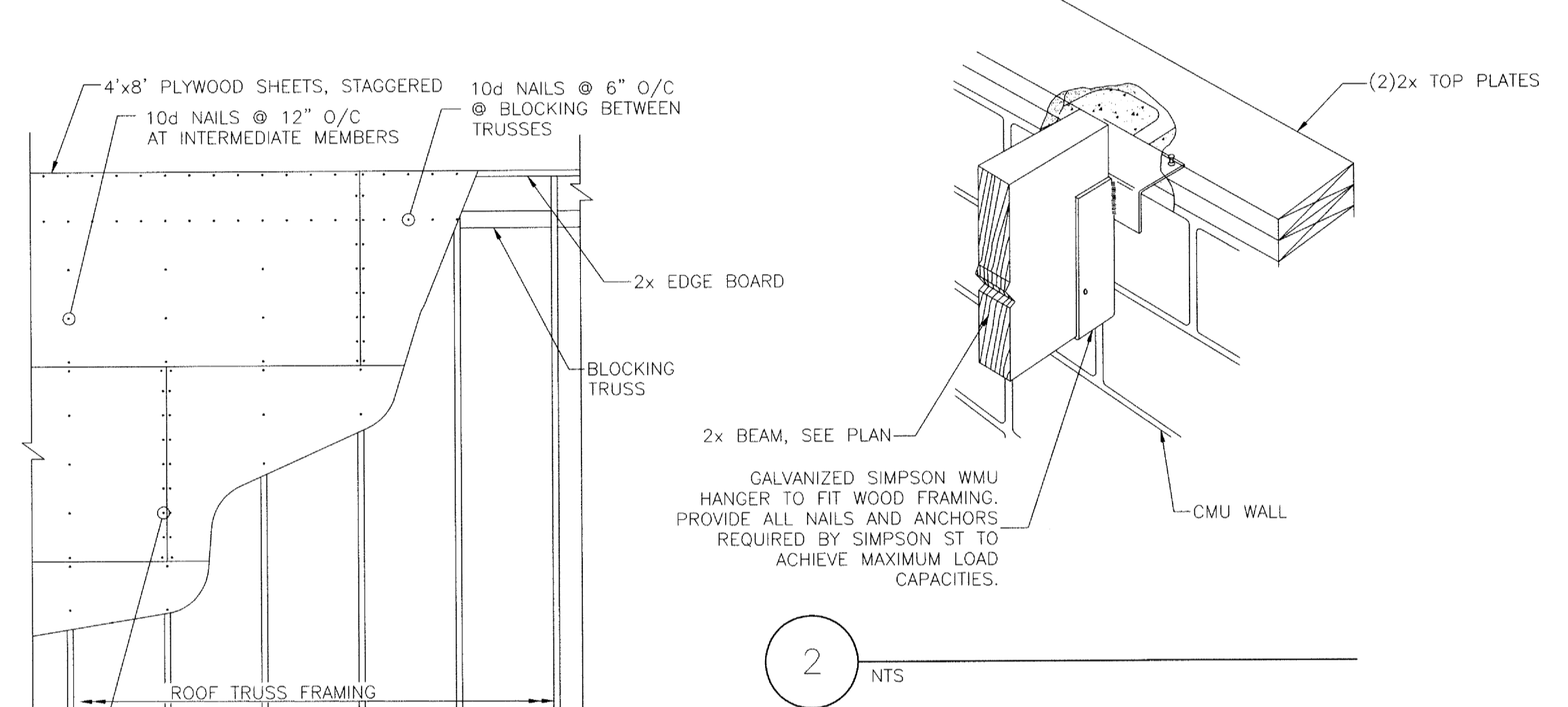


**NAIL SIZE SCHEDULE**

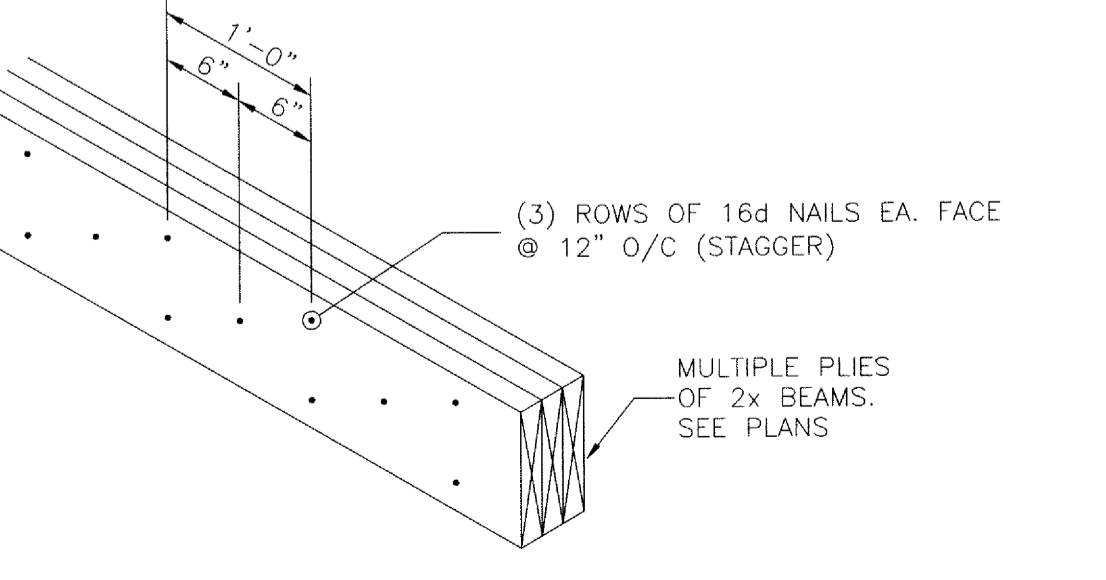
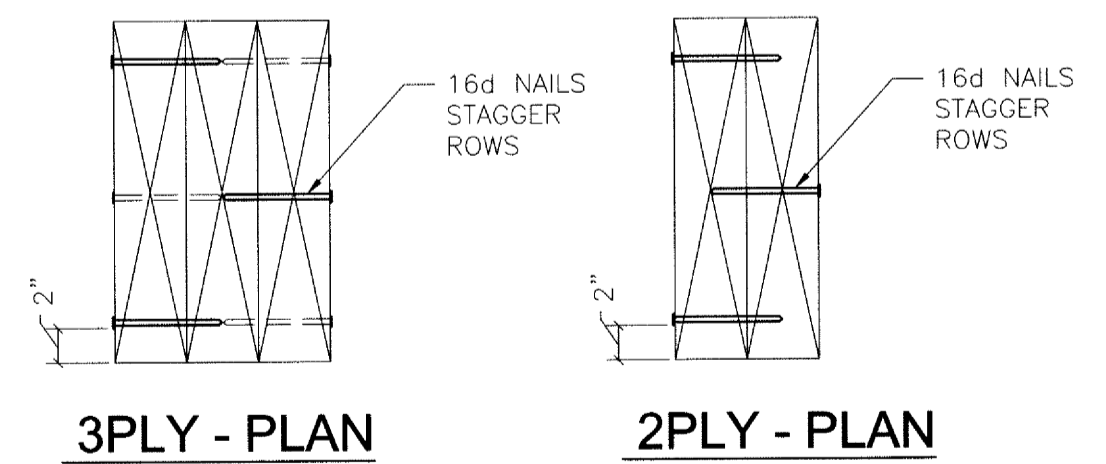
NAIL	SHANK DIAMETER	LENGTH
8d	0.131"	2-1/2"
10d	0.148"	3"
12d	0.148"	3-1/4"
16d	0.162"	3-1/2"
20d	0.192"	4"

**PRE-ENGINEERED WOOD TRUSS NOTES:**

- TRUSS ELEVATIONS SHOWN ARE SCHEMATIC ONLY AND ARE INTENDED TO REPRESENT TOP AND BOTTOM CHORD PROFILES AND TYP. SUPPORT CONDITIONS ONLY.
- TRUSS WEB CONFIGURATION AT CONTRACTOR'S OPTION, SUBJECT TO A/E REVIEW & APPROVAL (SEE SECTIONS).
- DESIGN TRUSSES FOR LOADS INDICATED IN ADDITION TO GRAVITY LOADS INDICATED ON PLANS: GIRDER TRUSS TO BE DESIGNED TO SUPPORT ROOF MEMBERS FRAMING INTO IT. GIRDER TRUSSES SHALL BE ANCHORED TO ITS SUPPORTS WITH COLUMN CAPS (PC, EPC, etc.)
- PROVIDE BRACING/BRIDGING REQUIRED FOR CHORD & WEB STABILITY OF TRUSSES.
- TRUSS SUPPLIER COORDINATE ALL HVAC/PLUMBING PENETRATIONS WITH M/E/P DWGS. AND ADJUST TRUSS WEB CONFIGURATION AS REQUIRED.
- TRUSS SUPPLIER SHALL DESIGN AND FURNISH ALL TRUSS TO TRUSS AND/TRUSS TO SUPPORT CONNECTIONS. SUBMIT SHOP DRAWINGS SHOWING CONNECTION DETAILS & REACTIONS FOR A/E APPROVAL.
- TOP & BOTTOM CHORDS OF ALL TRUSSES SHALL BE 2x6 OR LARGER AND SYP NO. 2 OF BETTER.



**PLYWOOD ROOF DECK ATTACHMENT DETAILS**

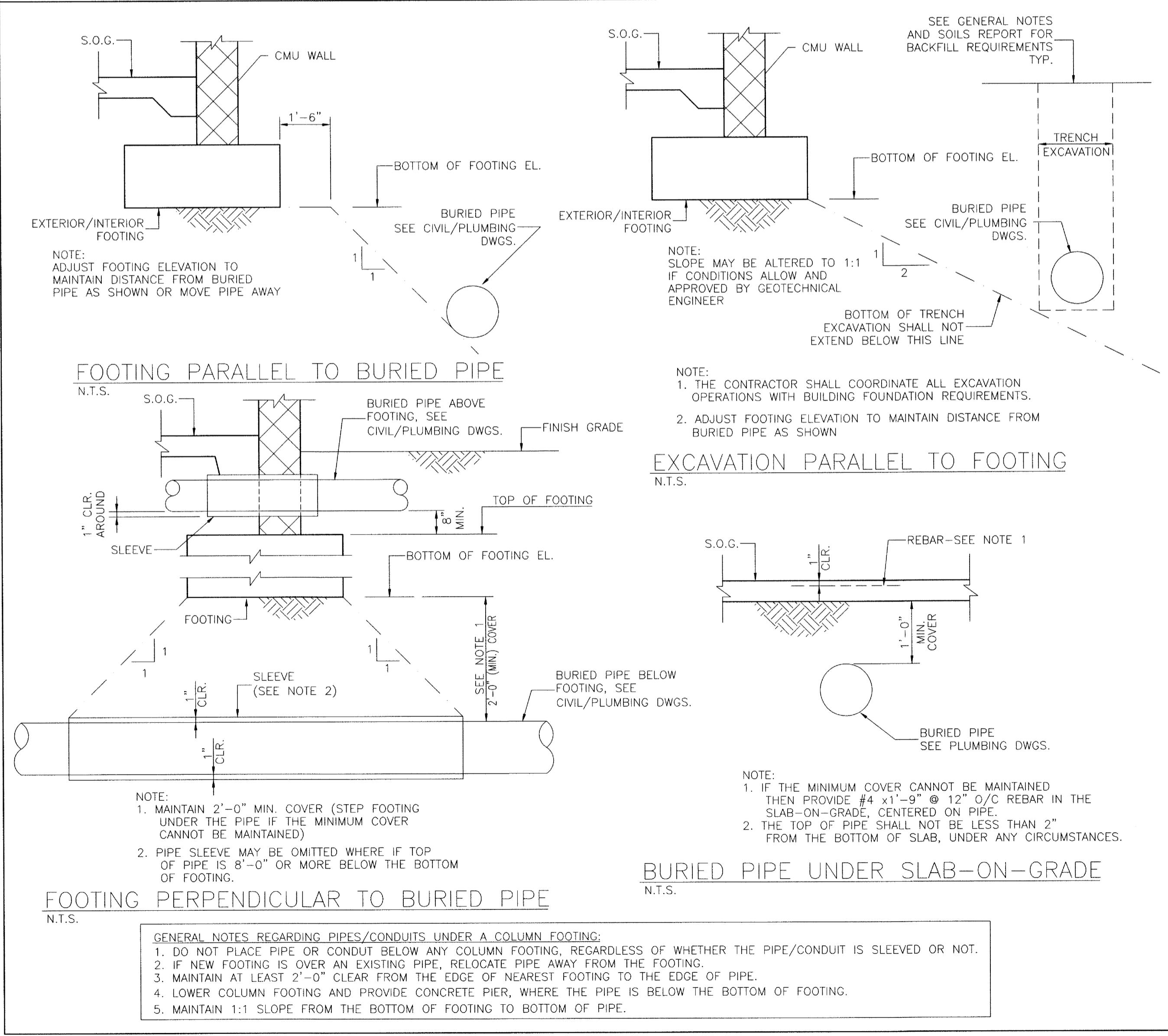


**NAILING SCHEDULE**

CONNECTION	NAILING
JOIST TO SILL OR GIRDER	3-10d, TOENAIL
BRIDGING TO JOIST	3-8d, TOENAIL E.E.
SOLE PLATE TO JOIST OR BLOCKING TYP.	16d @ 16", FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED (SHEARWALL) WALL PANEL	16d @ 8", FACE NAIL
TOP PLATE TO STUD	2-16d, ENDNAIL
STUD TO SOLE PLATE	4-10d TOENAIL
DOUBLE STUDS	16d @ 24" o/c FACE NAIL
DOUBLED TOP PLATES, TYP.	16d @ 16" FACE NAIL
DOUBLED TOP PLATES, LAP SPLICE	12-16d, FACE NAIL
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	4-16d, TOE NAIL
RIM JOIST/KNEE WALL TRUSS TO TOP PLATE	10d @ 6", TOENAIL
TOP PLATES, LAPS AND INTERSECTIONS	3-16d, FACENAIL (12-16d AT SHEARWALLS)
CONTINUOUS HEADER, TWO PIECES	16d @ 16" ALONG EA. EDGE
CEILING JOISTS TO PLATE	4-8d, TOENAIL
CONTINUOUS HEADER TO STUD	4-16d, TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	4-16d, FACENAIL
CEILING JOISTS TO PARALLEL RAFTERS	4-12d, FACENAIL
RAFTERS TO PLATE	4-10d, TOENAIL
BUILT-UP CORNER STUDS	16d @ 24"
BUILT UP GIRDERS AND BEAMS	20d @ 32" TOP & BOT. AND STAGGERED 2-20d AT LAPS & ENDS
BANDING TO TOP PLATE, FACE NAIL	10d @ 6"
TRUSS TO BANDING, FACE NAIL	3-16d COMMON

**NOTE:**  
 1. NAILING REQUIREMENTS INDICATED ABOVE ARE CODE PRESCRIBED MINIMUM. MORE STRINGENT NAILING, WHERE INDICATED ON PLANS, SHALL BE USED IN LIEU OF ABOVE.  
 2. CONNECT MULTIPLE PLYS OF WOOD TRUSSES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MIN. 16d NAILS AT 12" o/c IN 2 ROWS. STAGGERED. OVER FRAMING TO BE TOE NAILED @ 16" o/c WITH 16d NAILS.

**BURIED PIPE TO FOOTING/SLAB-ON-GRADE CLEARANCE DETAILS**



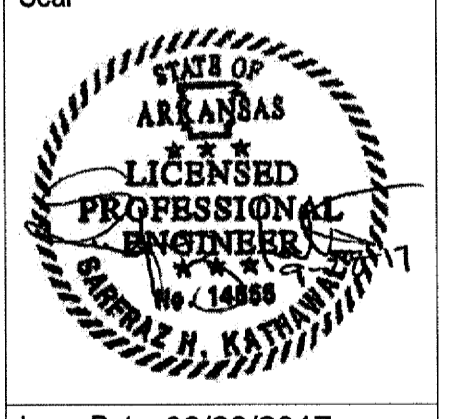
**BELOW GRADE PIPE AND FOOTING DETAILS.**

**GENERAL NOTES REGARDING PIPES/CONDUITS UNDER A COLUMN FOOTING:**  
 1. DO NOT PLACE PIPE OR CONDUIT BELOW ANY COLUMN FOOTING, REGARDLESS OF WHETHER THE PIPE/CONDUIT IS SLEEVED OR NOT.  
 2. IF NEW FOOTING IS OVER AN EXISTING PIPE, RELOCATE PIPE AWAY FROM THE FOOTING.  
 3. MAINTAIN AT LEAST 2'-0" CLEAR FROM THE EDGE OF NEAREST FOOTING TO THE EDGE OF PIPE.  
 4. LOWER COLUMN FOOTING AND PROVIDE CONCRETE PIER, WHERE THE PIPE IS BELOW THE BOTTOM OF FOOTING.  
 5. MAINTAIN 1:1 SLOPE FROM THE BOTTOM OF FOOTING TO BOTTOM OF PIPE.

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**CONCESSION BUILDING - CITY OF JONESBORO**  
 JONESBORO, AR

Rev.	Date	Revision Description



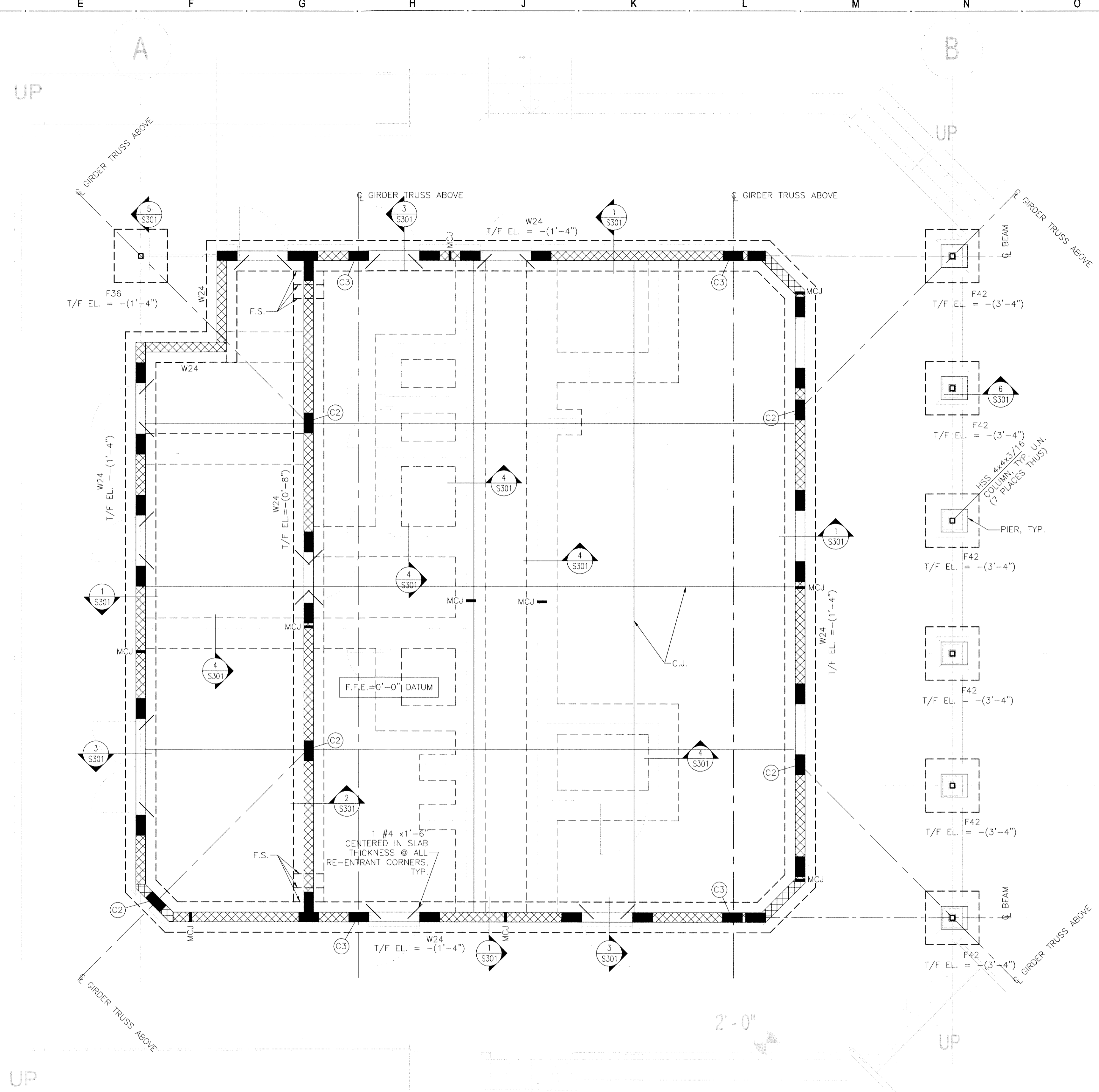
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**TYPICAL DETAILS**

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**CONCESSION BUILDING -**  
**CITY OF JONESBORO**  
 JONESBORO, AR

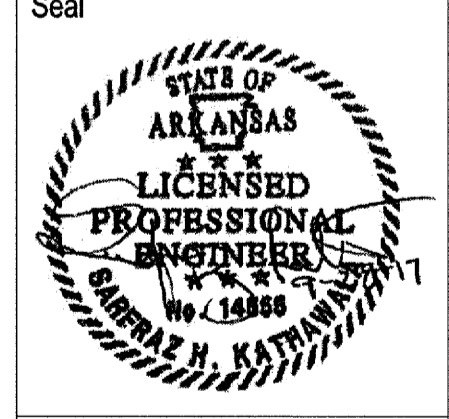


**FOUNDATION AND GROUND FLOOR PLAN**  
 SCALE 1/4" = 1'-0"

- PLAN NOTES:**
- SEE SHEET S100 FOR GENERAL NOTES AND SCHEDULES
  - FINISH FLOOR ELEVATION = 0'-0" DATUM.
  - 4" SLAB ON GRADE W/(1) LAYER WWF 6x6-W1.4xW1.4 (CENTER OF SLAB) TYP. UNLESS NOTED
  - ALL FOOTINGS ARE CENTERED ON COLUMNS OR WALLS UNLESS NOTED
  - FOR FLOOR DRAINS AND SLOPES SEE ARCHT. DWGS.
  - REINFORCING FOR LOAD BEARING WALLS: (SEE 1/S101) 8" CMU
    - VERTICAL: 1-#5 AT 48" O.C. CENTERED IN FULLY GROUTED CELLS (GROUT ONLY CELLS WITH REINF.)
    - HORIZONTAL: STANDARD DUR-O-WALL AT 16" O.C. & 2 #4 IN BOND BEAMS (BOND BEAMS SHALL BE PROVIDED @ 4'-0" O/C AND AT THE TOP OF WALL).
    - PROVIDE DOWELS TO FOUNDATION OR OTHER SUPPORTING ELEMENT SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT.
    - PROVIDE VERTICAL REINFORCEMENT IN CELLS AT ALL CORNERS AND TEE INTERSECTIONS. (SEE 6/S101)
    - PROVIDE CONTROL JOINTS AT 30'-0" o/c MAX.
    - PROVIDE LINTELS AND JAMBS AT OPENINGS. SEE S101.
  - REINFORCING FOR 6" & 8" NON-LOAD BEARING (N.L.B.) WALLS: (SEE 1/S101)
    - VERTICAL: 1-#4 AT 4'-0" O.C. IN FULLY GROUTED CELLS (GROUT ONLY CELLS WITH REINF.)
    - HORIZONTAL: STANDARD DUR-O-WALL AT 16" O.C. & 2 #4 IN BOND BEAMS @ 4'-0" O/C & @ TOP OF WALL ONLY.
    - PROVIDE DOWELS TO FOUNDATION OR OTHER SUPPORTING ELEMENT SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT.
    - PROVIDE VERTICAL REINFORCEMENT IN CELLS AT ALL CORNERS AND TEE INTERSECTIONS (SEE 6/S101)
    - TOP OF N.L.B. WALLS SHALL BE BRACED @ TOP TO STRUCTURE ABOVE
    - PROVIDE CONTROL JOINTS AT 30'-0" o/c MAX.
    - PROVIDE LINTELS AND JAMBS AT OPENINGS. SEE S101.

- LEGEND:**
- LOAD BEARING CMU WALL SEE FOUNDATION PLAN NOTES FOR REINF.
  - NON-LOAD BEARING CMU WALL SEE FOUNDATION PLAN NOTES FOR REINF.
  - CONTROL JOINT/CONSTRUCTION JOINT SEE SHEET S101 FOR DETAILS
  - MASONRY CONTROL JOINT, SEE 6/S101.
  - CMU WALL COLUMN, SEE 2/S101 & LINTEL SCHEDULE
  - FOOTING STEP, SEE S101 FOR DETAILS.
  - FOOTING, SEE SCHEDULE ON S100.
  - C.J.
  - MCJ
  - F.S.
  - W24, F42

Rev.	Date	Revision Description

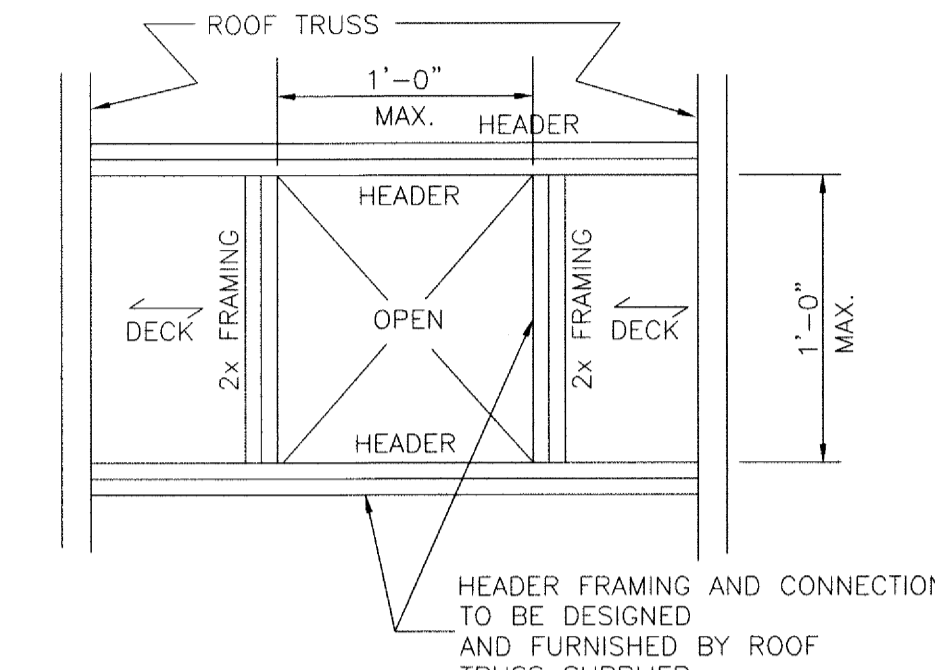


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**FOUNDATION AND GROUND FLOOR PLAN**

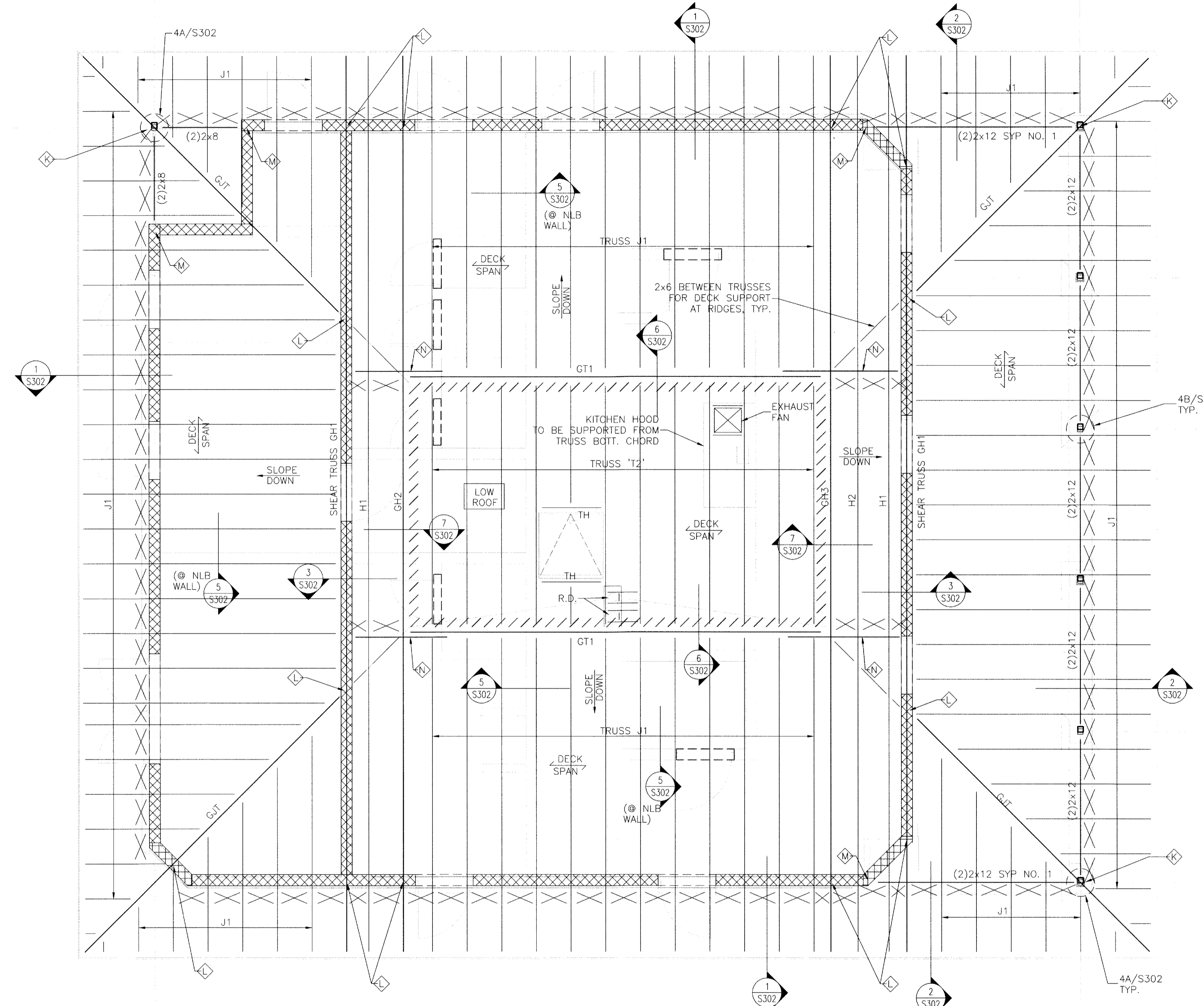
**S201**

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**1** TYPICAL FRAMED OPENING DETAIL (ROOF DRAINS, ETC.)

- NOTES:
1. OMIT SUPPORT HEADERS WHEN OPENING IS FRAMED BY TRUSS.
  2. IF THE RTU CURB ARE NOT DESIGNED TO SPAN FROM TRUSS TO TRUSS, PROVIDE ADDITIONAL FRAMING UNDER CURBS, AS REQUIRED TO SUPPORT RTU LOAD.
  3. PROVIDE ADDITIONAL TRUSS WEBS IF CONCENTRATED LOADS ARE APPLIED AWAY FROM TRUSS PANEL POINT.



**ROOF FRAMING PLAN**  
 SCALE 1/4" = 1'-0"

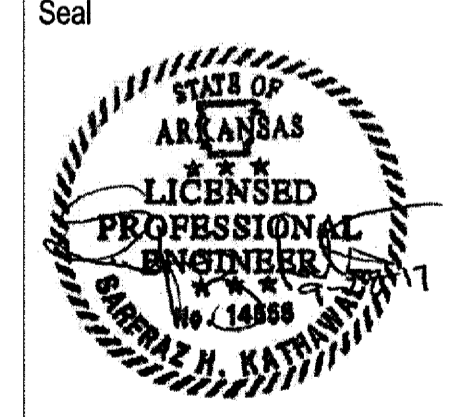
- PLAN NOTES:
1. SEE SHEET S100 FOR GENERAL NOTES AND SCHEDULES
  2. SUPERIMPOSED DESIGN LOADS:  
 LL: 20 PSF  
 (30 PSF @ FLAT ROOF IN EQUIPMENT WELL)  
 DL: TOP CHORD = 10 PSF  
 BOTTOM CHORD = 10 PSF  
 SEE PLANS FOR CONCENTRATED LOADS.
  3. TRUSS BEARING ELEVATION = +10'-11" A.F.F.
  4. ROOF FRAMING SYSTEM TO BE IN ACCORDANCE WITH "PERFORMANCE SPEC" MEETING PLANS AND PROJECT SPECIFICATIONS. THEREFORE, TRUSS FRAMING SCHEME INDICATED IS SCHEMATIC ONLY. CONTRACTOR IS TO PROVIDE FINAL ROOF SYSTEM DESIGN AND CONSTRUCTION INCLUDING FRAMING SCHEME, DESIGN AND CONSTRUCTION OF ALL TRUSSES AND OTHER PRIMARY AND SECONDARY FRAMING MEMBERS, CONNECTIONS, AND PERMANENT AND TEMPORARY BRACING, BRIDGING, ECT. TO MEET APPLICABLE CODES AND PROJECT DETAILS. ALTERNATE FRAMING SCHEMES AND/OR TRUSS WEBBING SHALL BE SUBJECT TO A/E APPROVAL. ALTERNATE FRAMING SCHEMES THAT MODIFY LOADS TO FOUNDATIONS OR OTHER SUPPORTING MEMBERS WILL NOT BE PERMITTED.
  5. TRUSS SPACING @ 2'-0" O/C.
  6. ROOF DECK: SEE GENERAL NOTES, SEE 1/S102 FOR NAILING TO FRAMING.
  7. PLYWOOD CEILING: SEE ARCHT. FOR THICKNESS. SEE 1/S102 FOR NAILING.

- LEGEND:
- [Cross-hatched box] LOAD BEARING CMU WALL. SEE FOUNDATION PLAN NOTES FOR REINF.
  - [Dotted box] NON-LOAD BEARING CMU WALL. SEE FOUNDATION PLAN NOTES FOR REINF.
  - [Line with 'T1, GT, ETC. (x)2x12'] PRE-ENGINEERED WOOD ROOF TRUSS, GIRDER TRUSS, ETC.
  - [X symbol] BLOCKING TRUSS
  - [Dashed line] CMU LINTEL, SEE SCHEDULES ON 4/S101 FOR LOAD BEARING WALLS AND 5/S101 FOR NON LOAD BEARING WALLS.
  - [Diamond with 'X'] ATTACHMENT OF GIRDER TRUSS TO COLUMN CAP. SEE 4/S302
  - [Diamond with 'X'] ATTACHMENT OF GIRDER TRUSS TO CMU w/SIMPSON HETA ANCHOR (ALLOWABLE UPLIFT CAPACITY = 1600 LBS OR MORE). DRILL HOLES IN WOOD TOP PLATES TO ALLOW EMBEDMENT INTO CMU
  - [Diamond with 'X'] ATTACHMENT OF WOOD BEAM TO CMU, SEE 2/S102
  - [Diamond with 'X'] ATTACHMENT DETAIL, SEE 8/S302
  - [Arrow] DECK STRENGTH AXIS SHALL BE PERPENDICULAR TO FRAMING.
  - [Triangle with 'TH'] TRUSS HEADER TO BE DESIGNED AND FURNISHED BY TRUSS VENDOR.
  - [Circle with 'R.D.'] ROOF DRAIN, SEE 1/S202 FOR FRAMING @ OPENING

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**ROOF FRAMING PLAN**

**S202**

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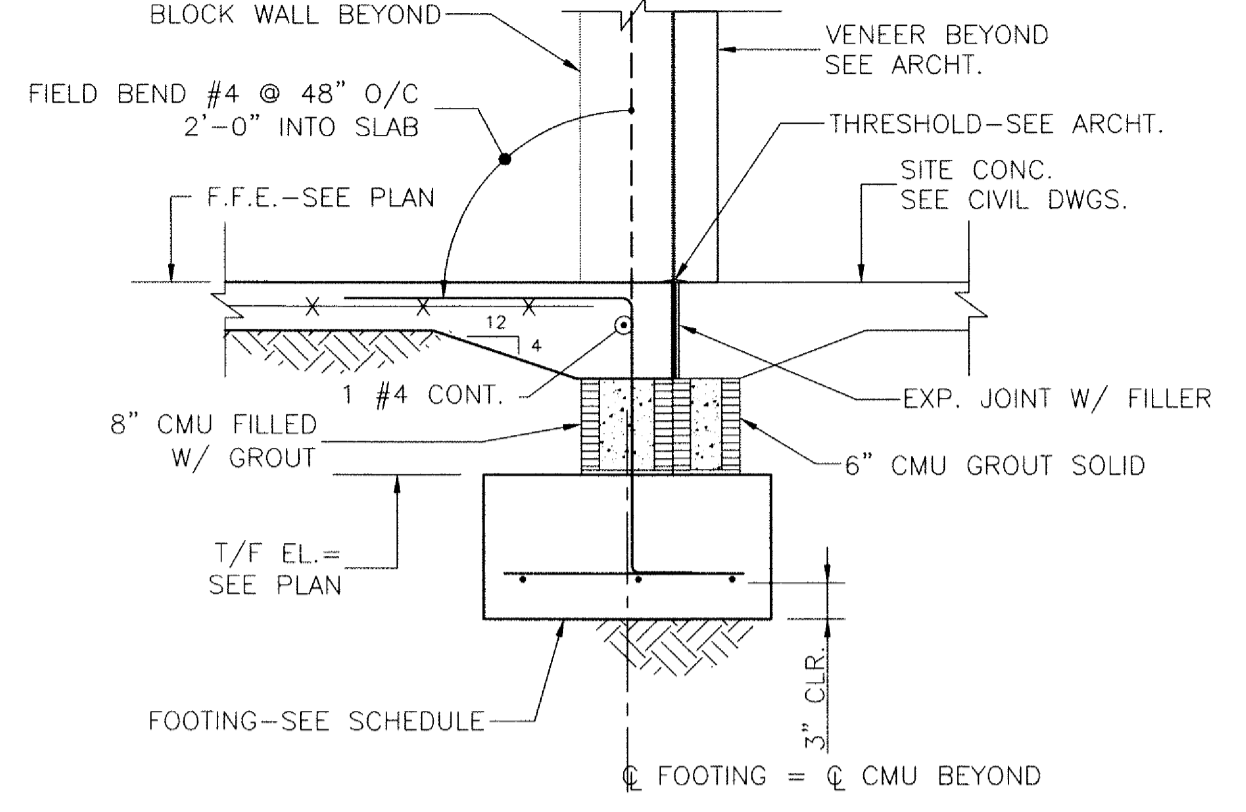


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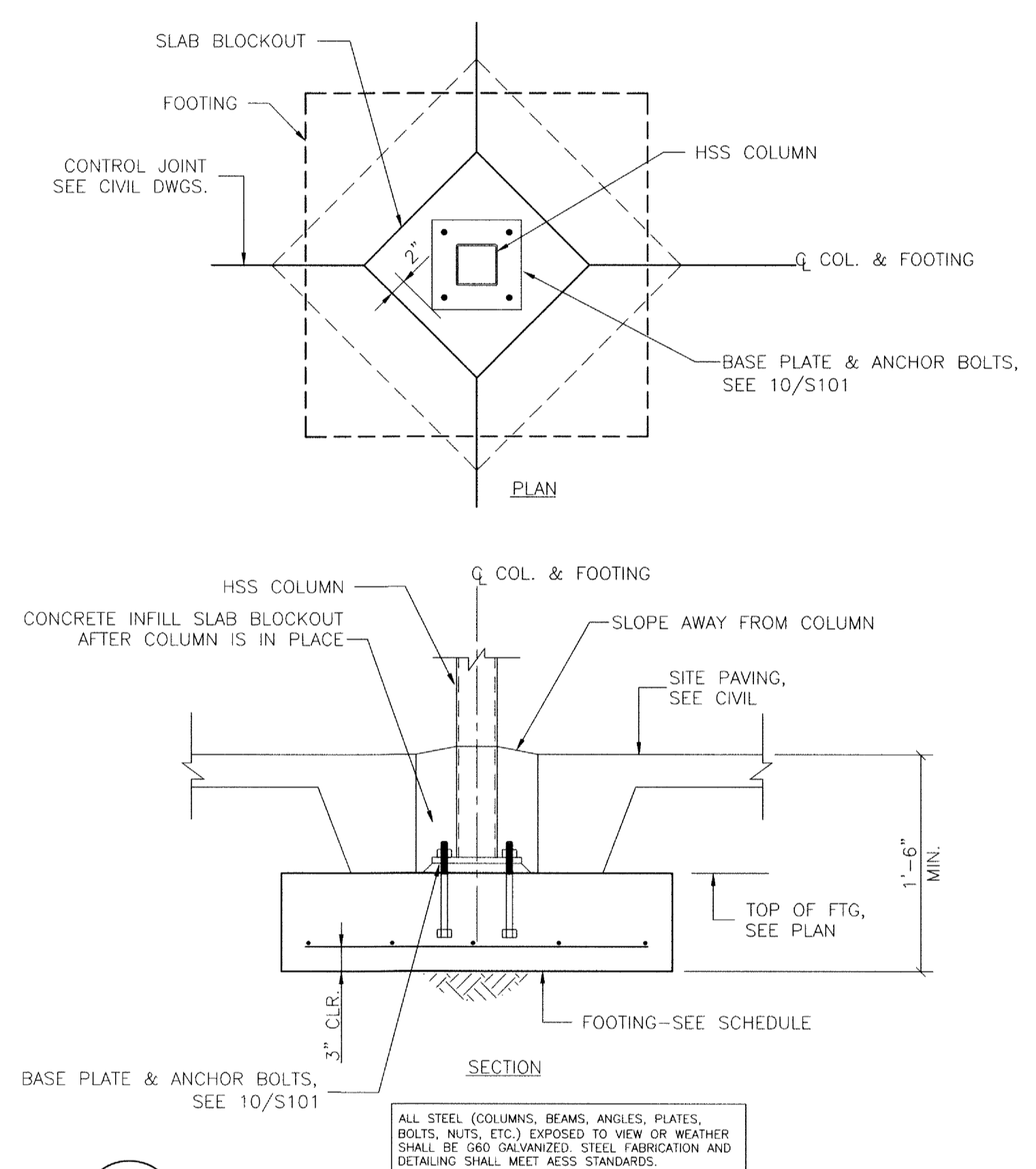
**SECTIONS & DETAILS**

**S301**

3 TYP. @ EXT. DOORS (IN 8" CMU WALL)  
 SCALE 3/4" = 1'-0"

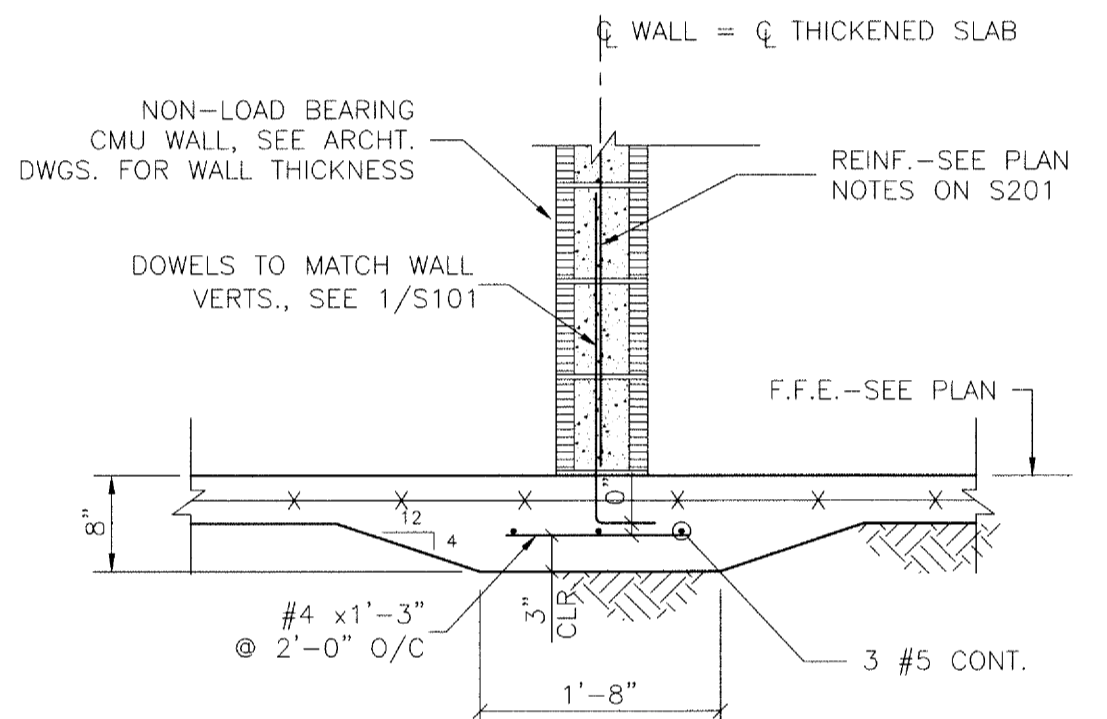
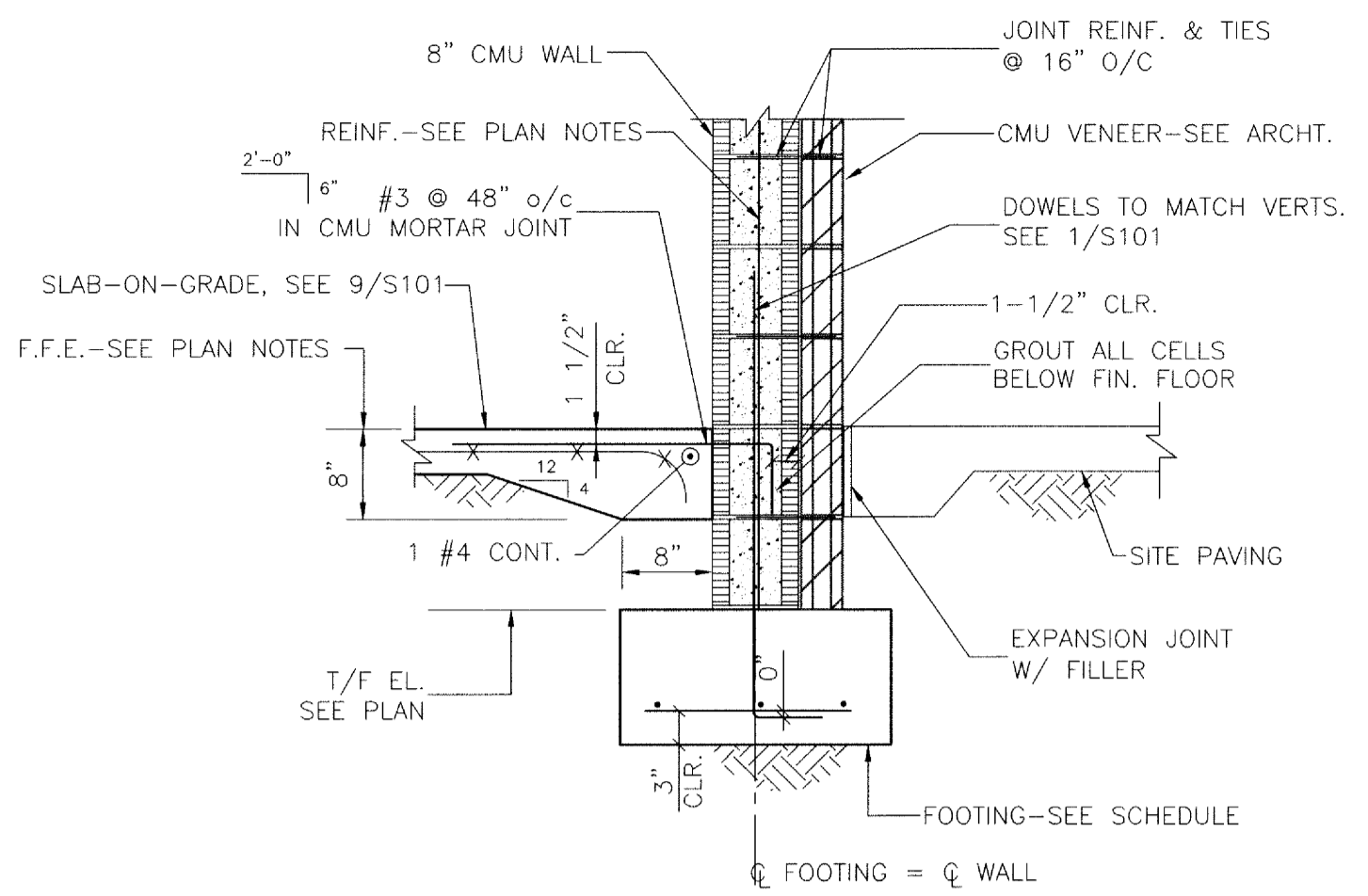


2 TYP. INTERIOR LOAD BEARING 8" CMU WALL  
 SCALE 3/4" = 1'-0"



5

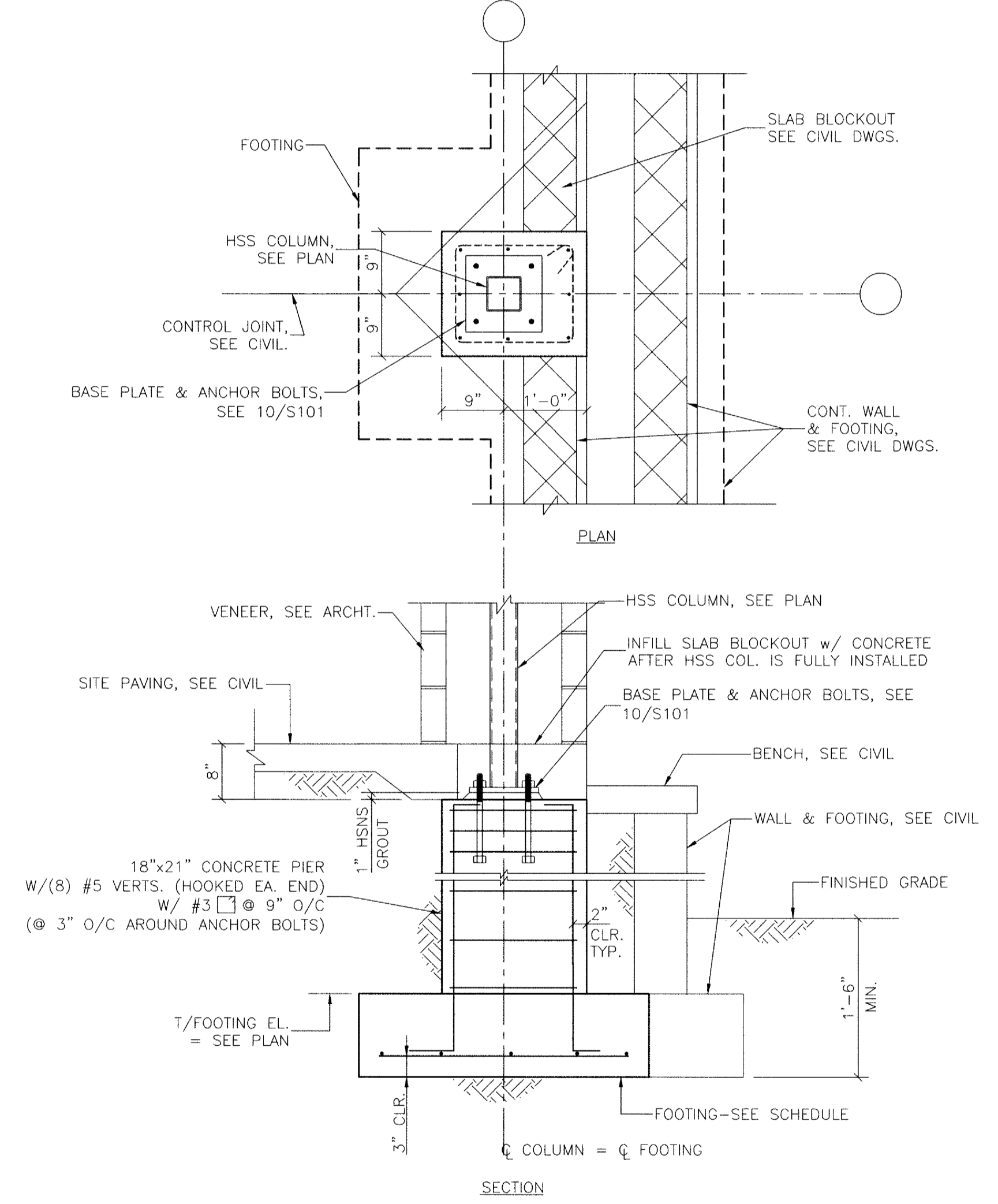
1 TYP. EXTERIOR FOOTING AT 8" CMU  
 SCALE 3/4" = 1'-0"



NOTES:  
 1. THIS DETAIL ONLY APPLIES TO 8" OR LESS THICKNESS WALLS NOT MORE THAN 12'-8" HIGH ABOVE FINISH FLOOR.  
 2. THE WALLS SHALL BE BRACED @ THE TOP, SEE PLAN NOTES, AND SECTIONS.  
 3. THICKENED SLAB SHALL BE POURED MONOLITHICALLY WITH THE SLAB-ON-GRADE.

4 TYP. INTERIOR NON LOAD BEARING WALL  
 SCALE 3/4" = 1'-0"

6 SECTION @ PORCH COLUMN  
 SCALE 3/4" = 1'-0"



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**SECTIONS &  
 DETAILS**

**S302**

