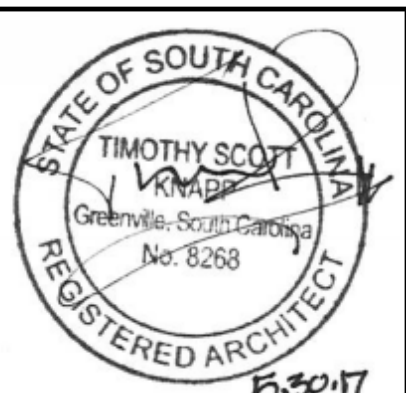
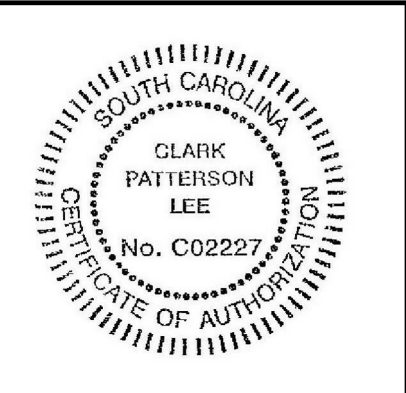




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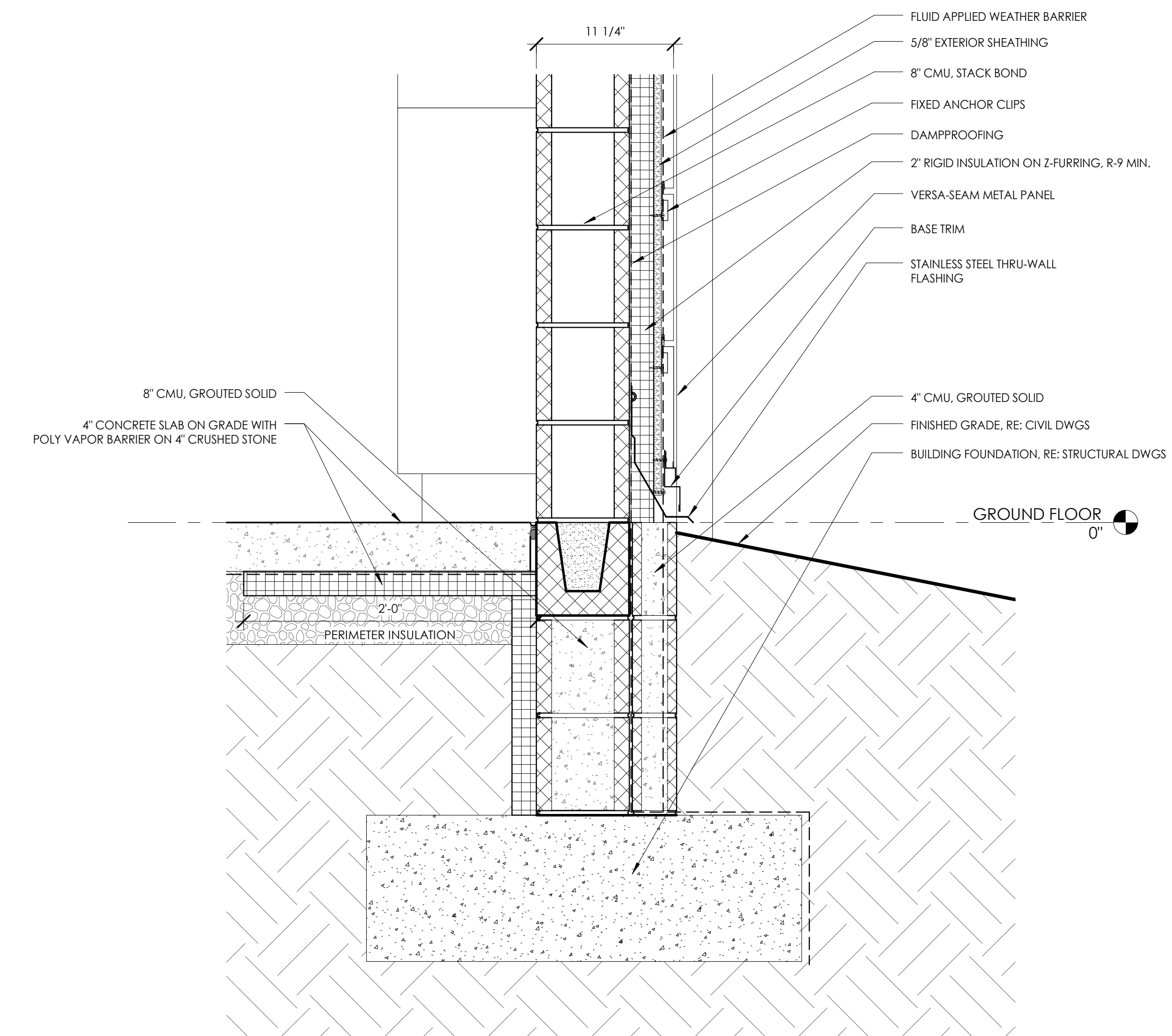
NO.	DATE	BY	CHKD	DESCRIPTION



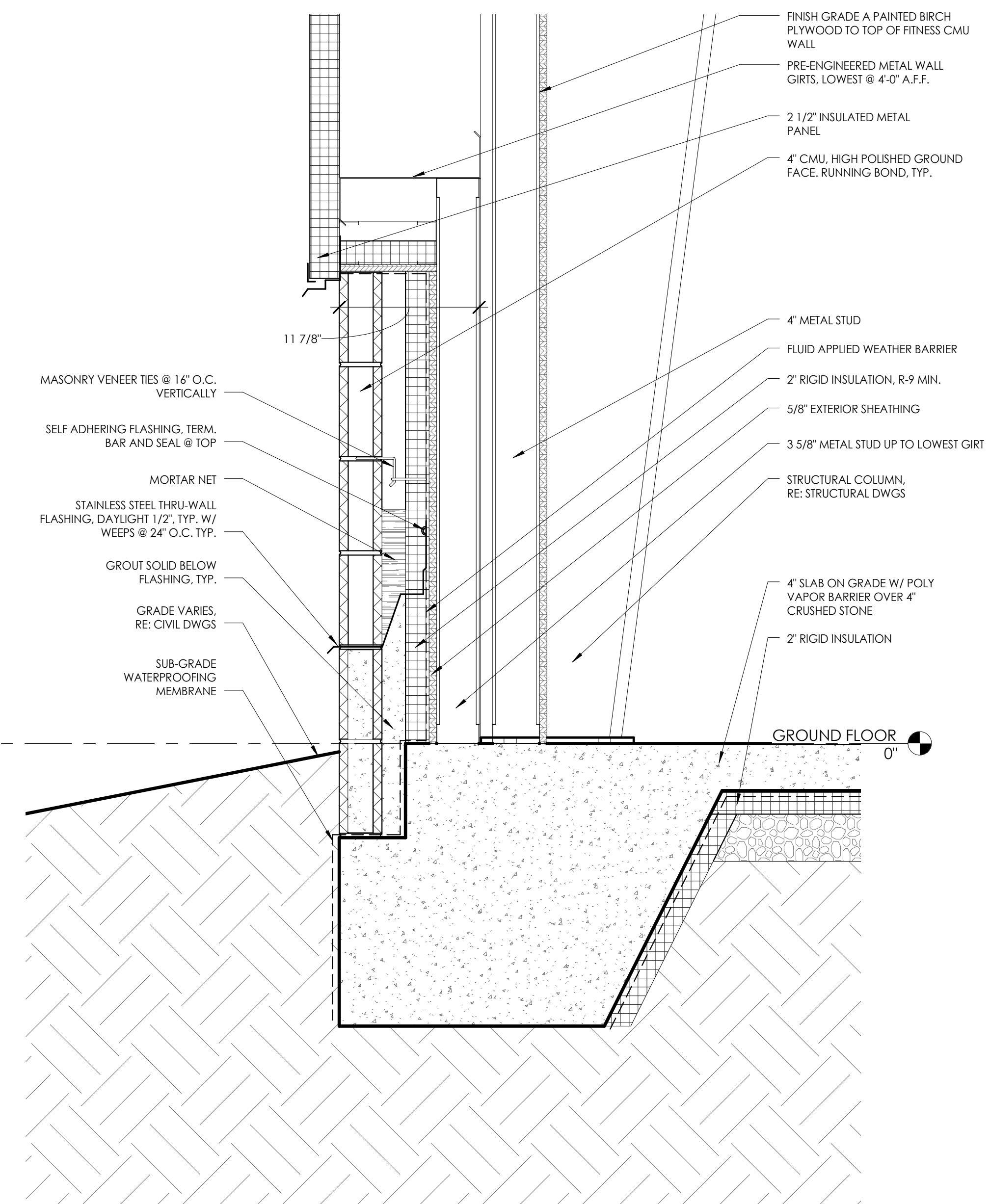
COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG
SCALE	As indicated	
SHEET TITLE	TYPICAL DETAILS	

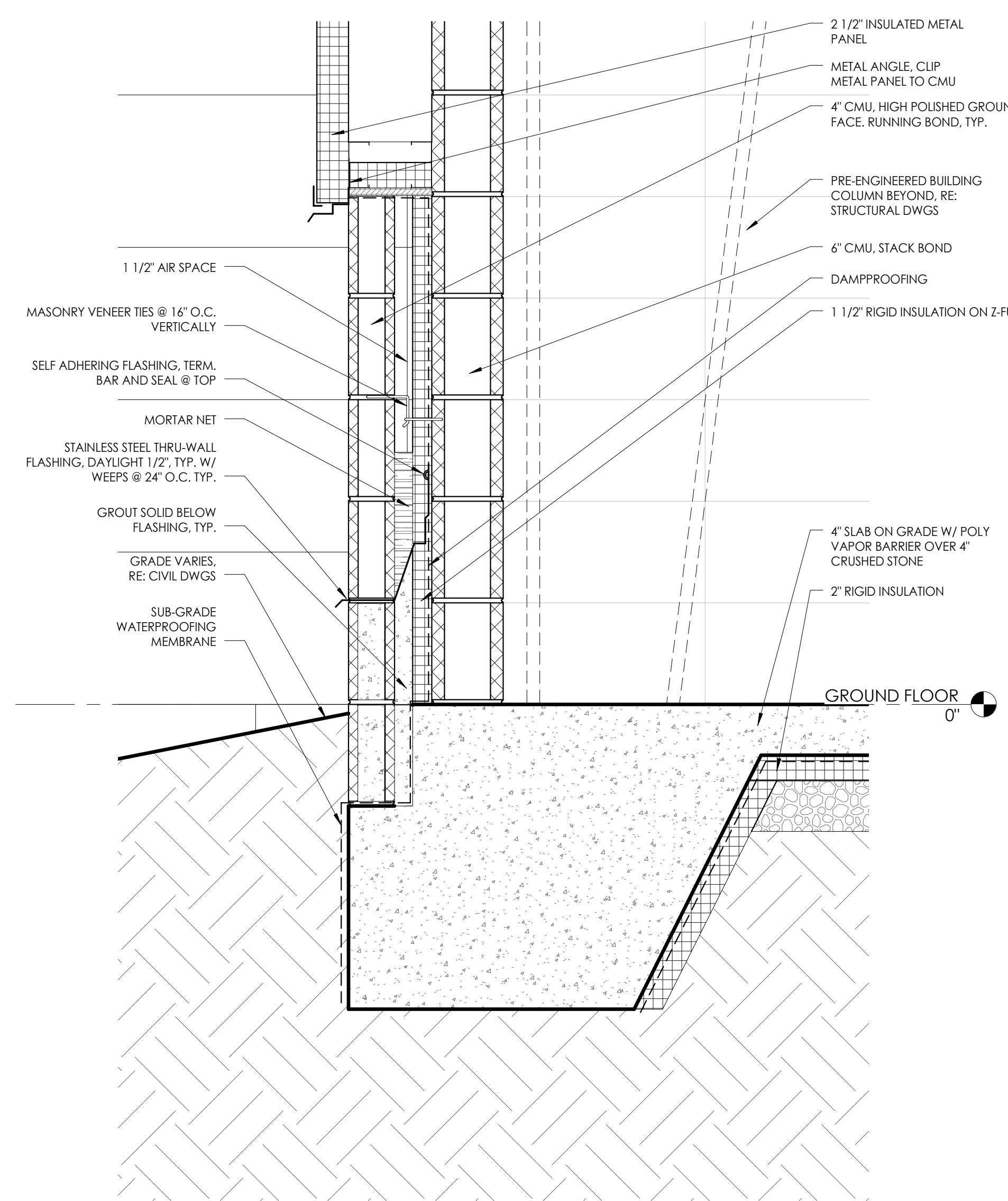
PROJECT NUMBER	13674.00
CC A800	DRAWING NUMBER



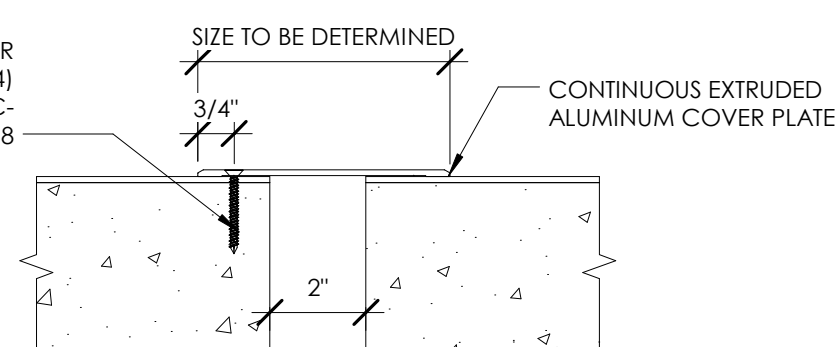
**7**  
A800  
1 1/2" = 1'-0"  
DETAIL @ METAL PANEL FOUNDATION



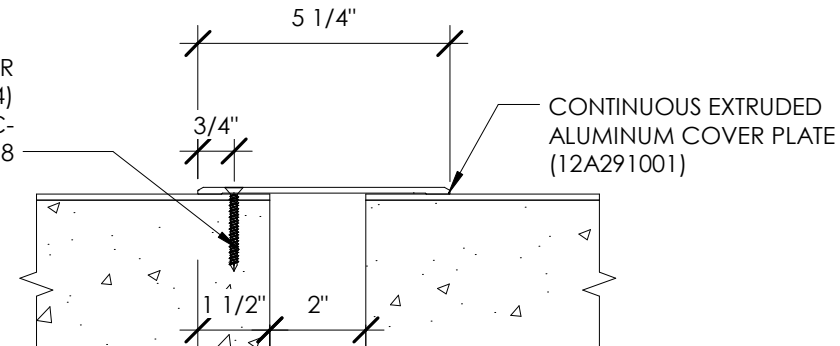
**1**  
A800  
1 1/2" = 1'-0"  
DETAIL @ GYM FOUNDATION, TYP.



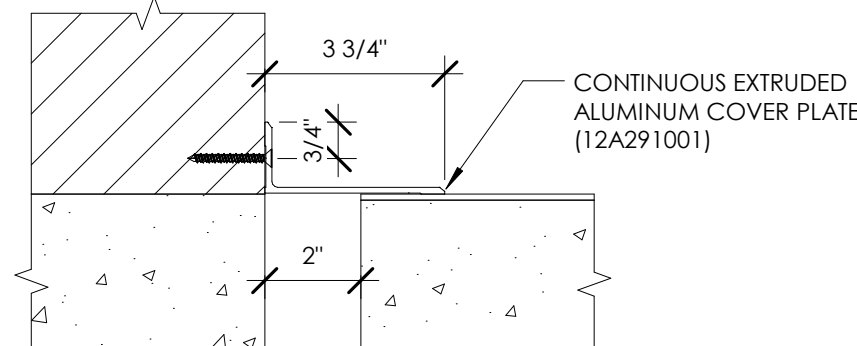
**2**  
A800  
1 1/2" = 1'-0"  
DETAIL @ GYM FOUNDATION



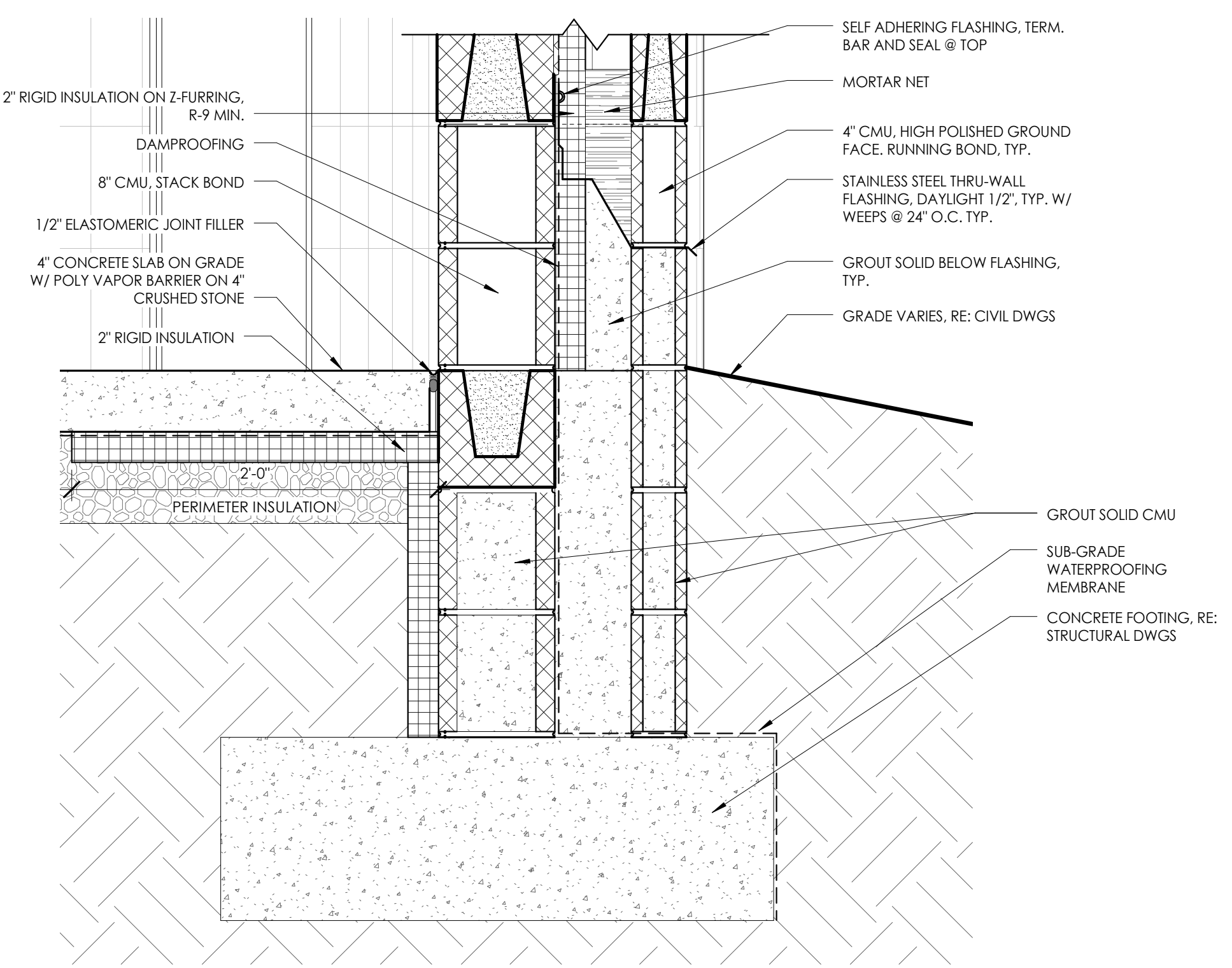
**6**  
A800  
3" = 1'-0"  
EXPANSION JOINT COVER



**4**  
A800  
3" = 1'-0"  
EXPANSION JOINT COVER - PC-200



**5**  
A800  
3" = 1'-0"  
EXPANSION JOINT COVER - PCW-200



**3**  
A800  
1 1/2" = 1'-0"  
TYP. FOUNDATION DETAIL @ FITNESS

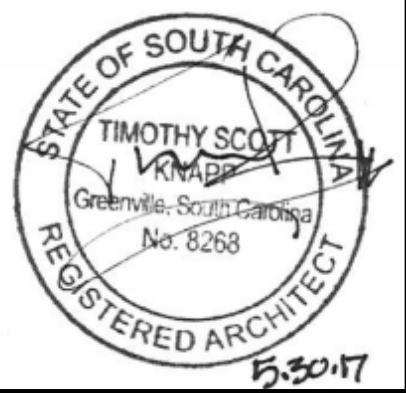
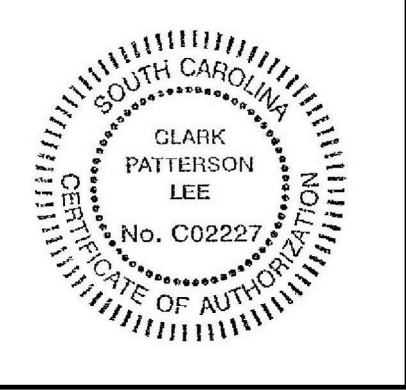
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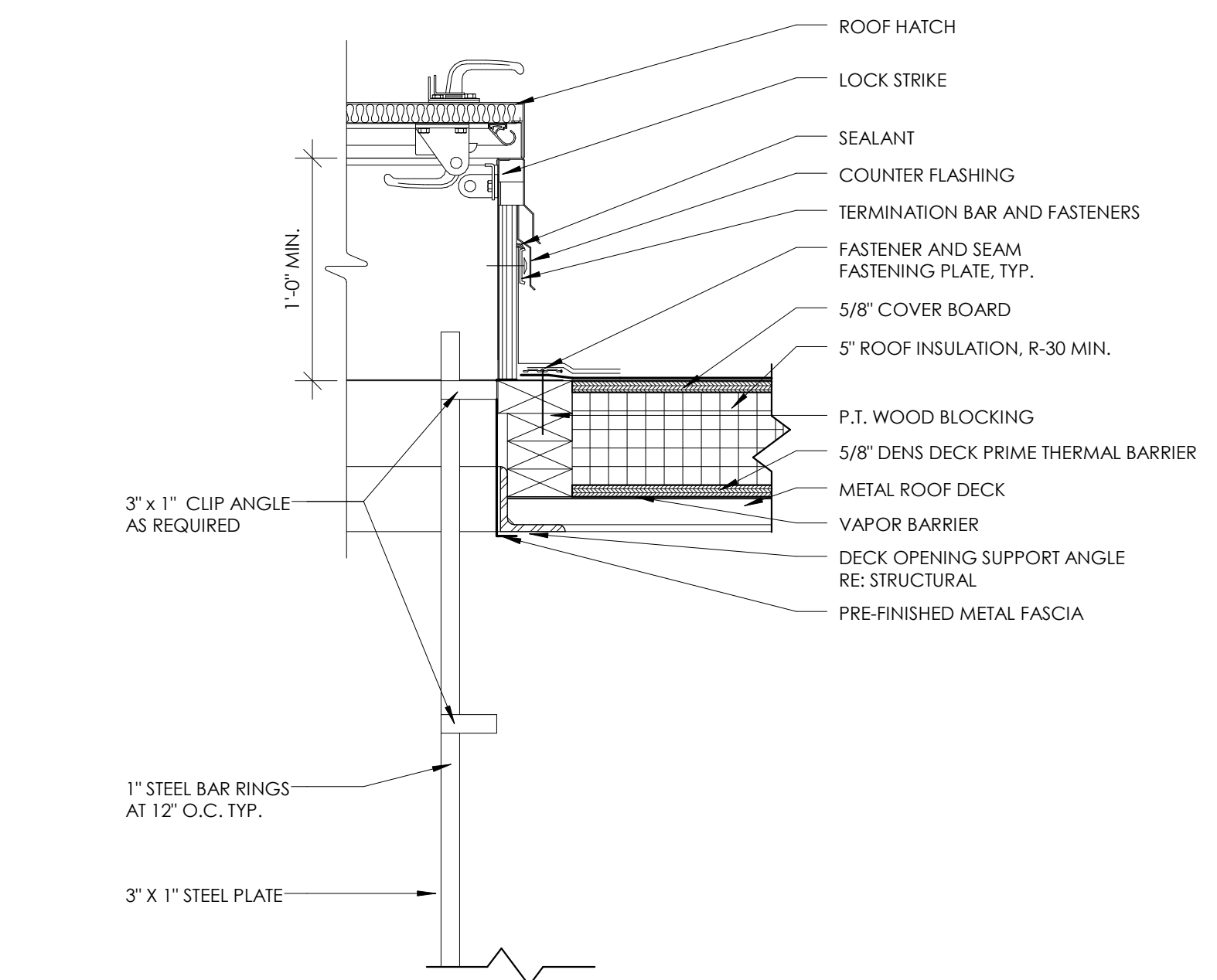


COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO SC 29488

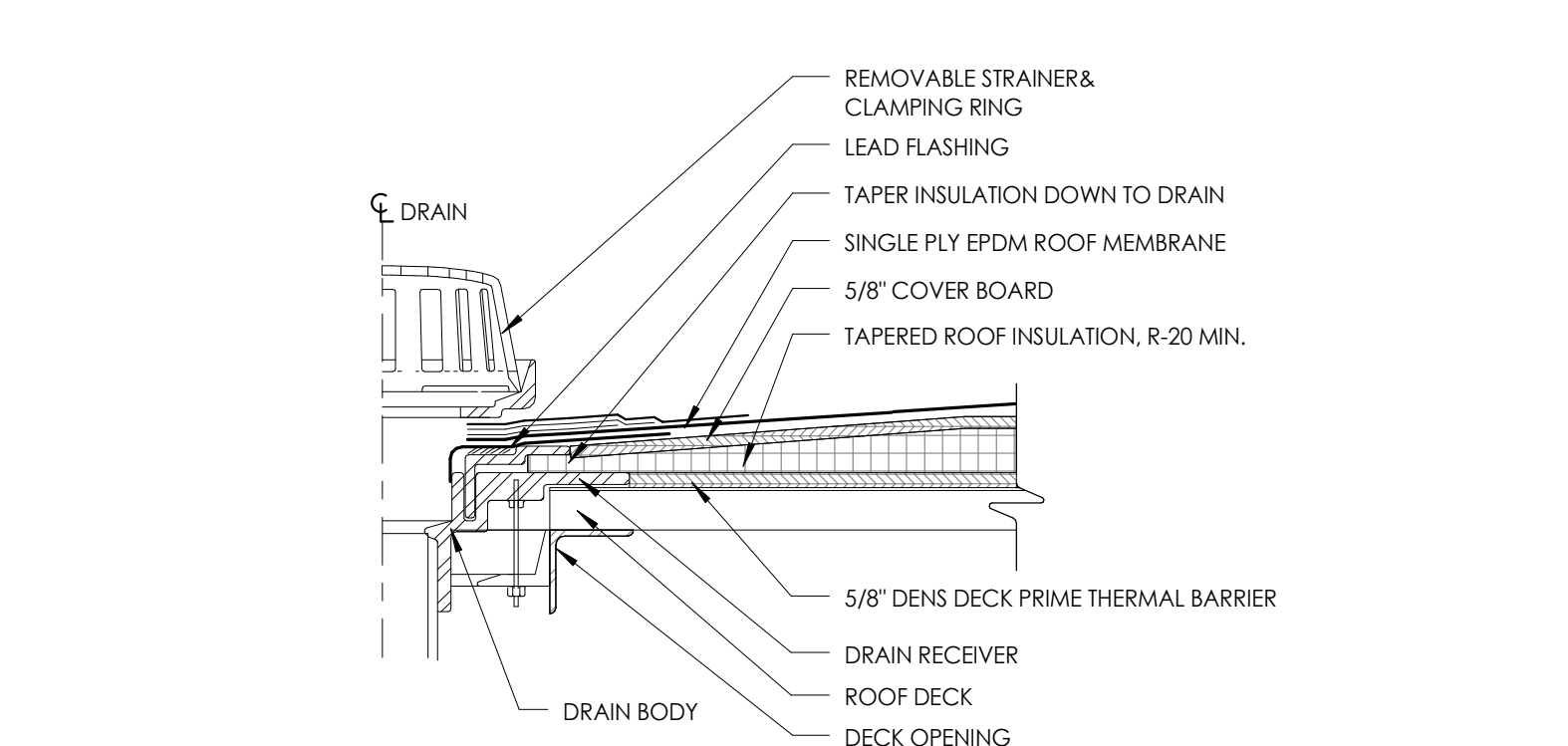
DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG

SCALE 1 1/2" = 1'-0"  
 SHEET TITLE  
 ROOF DETAILS

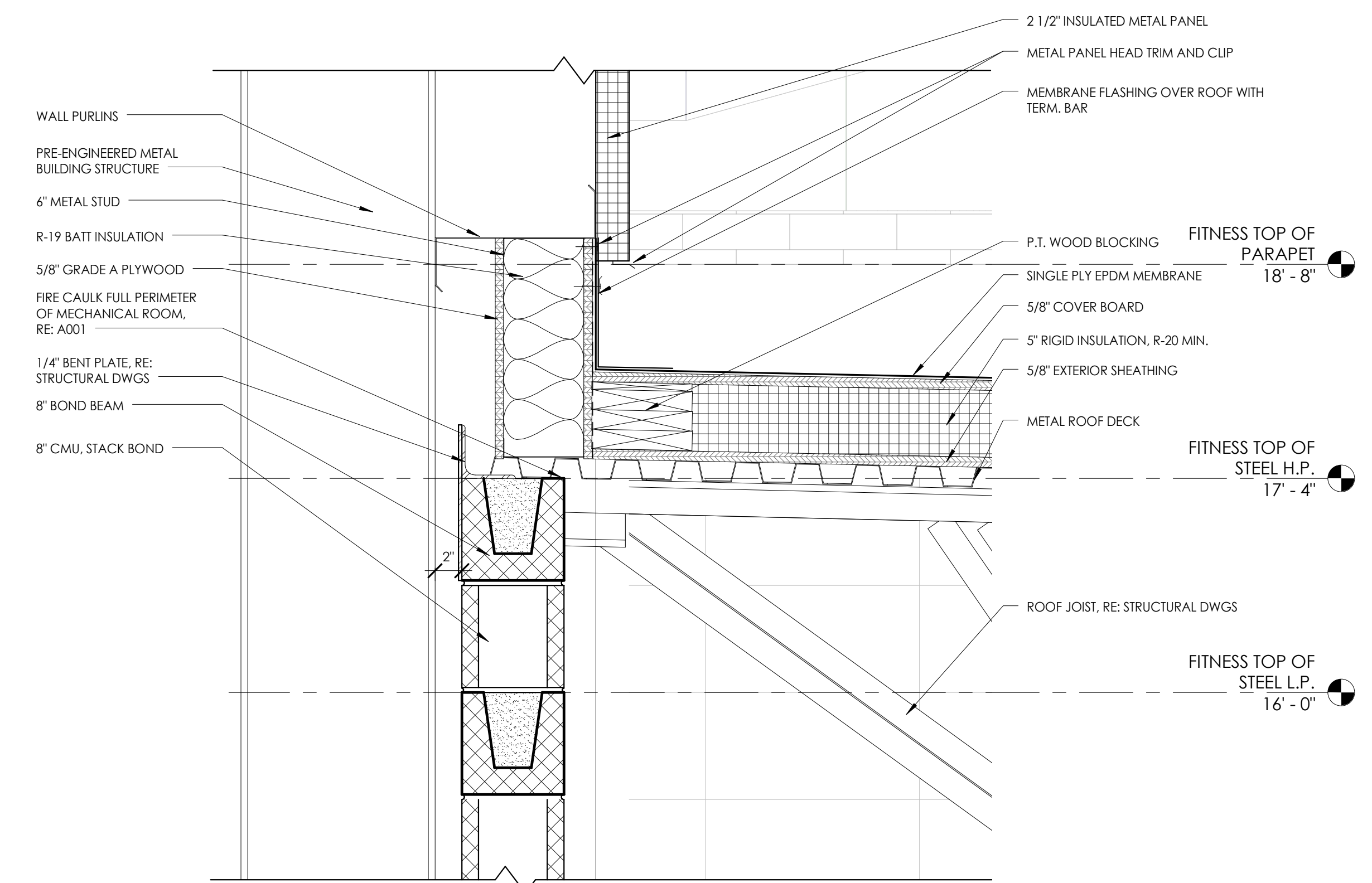
PROJECT NUMBER 13674.00
CC A801
DRAWING NUMBER



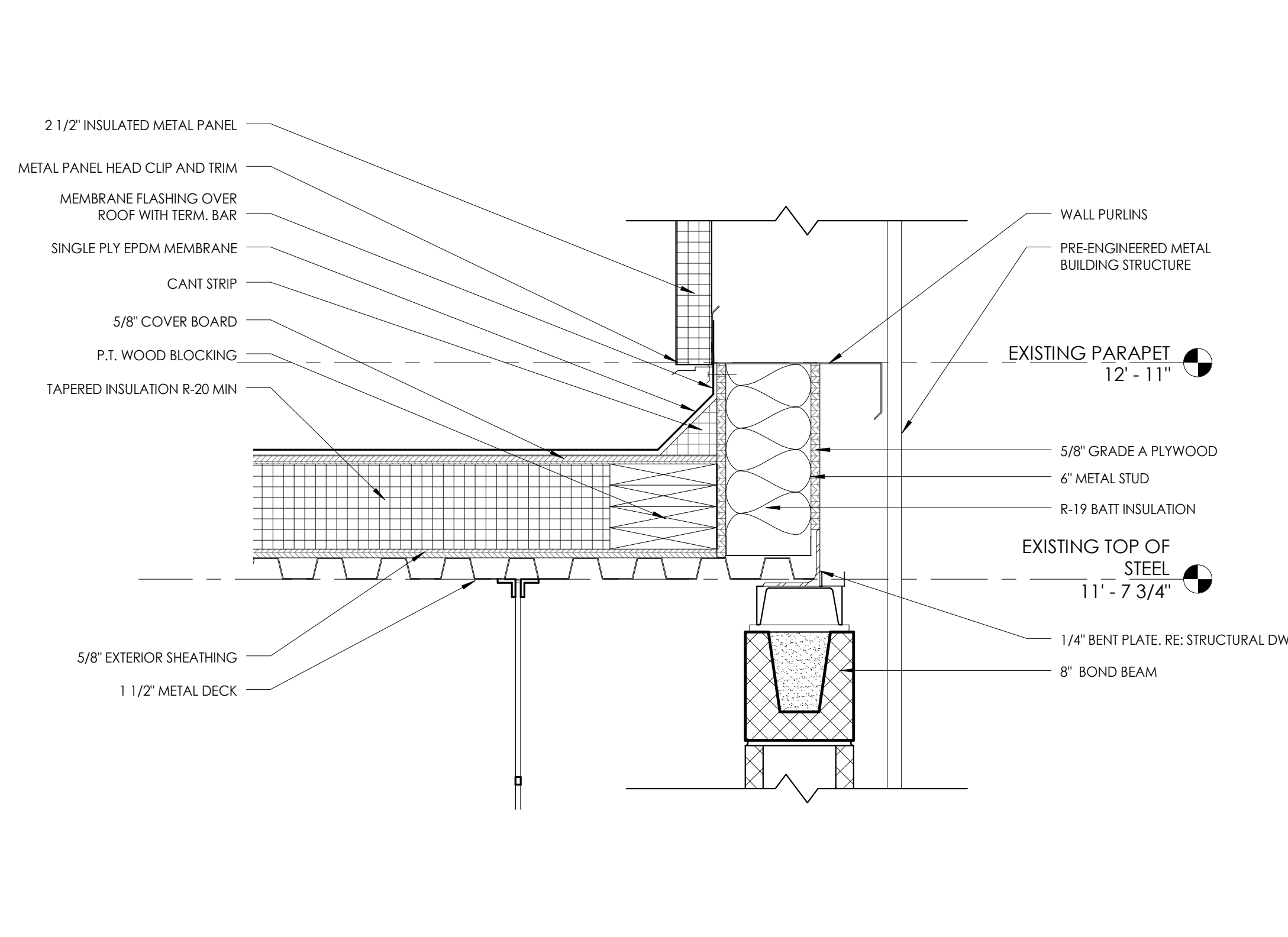
**6 DETAIL @ ROOF HATCH**  
 1 1/2" = 1'-0"



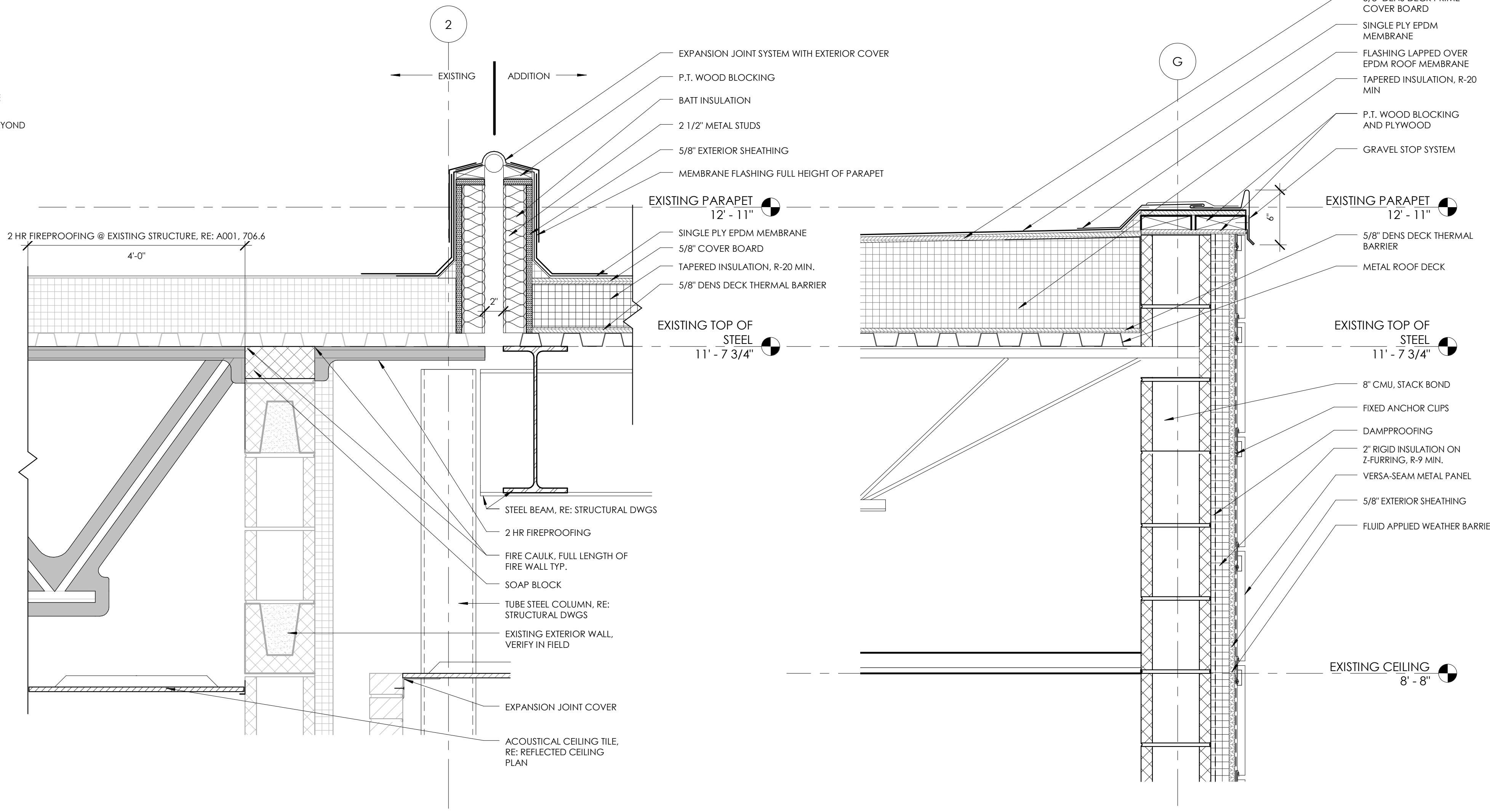
**5 TYPICAL ROOF DRAIN DETAIL**  
 1 1/2" = 1'-0"



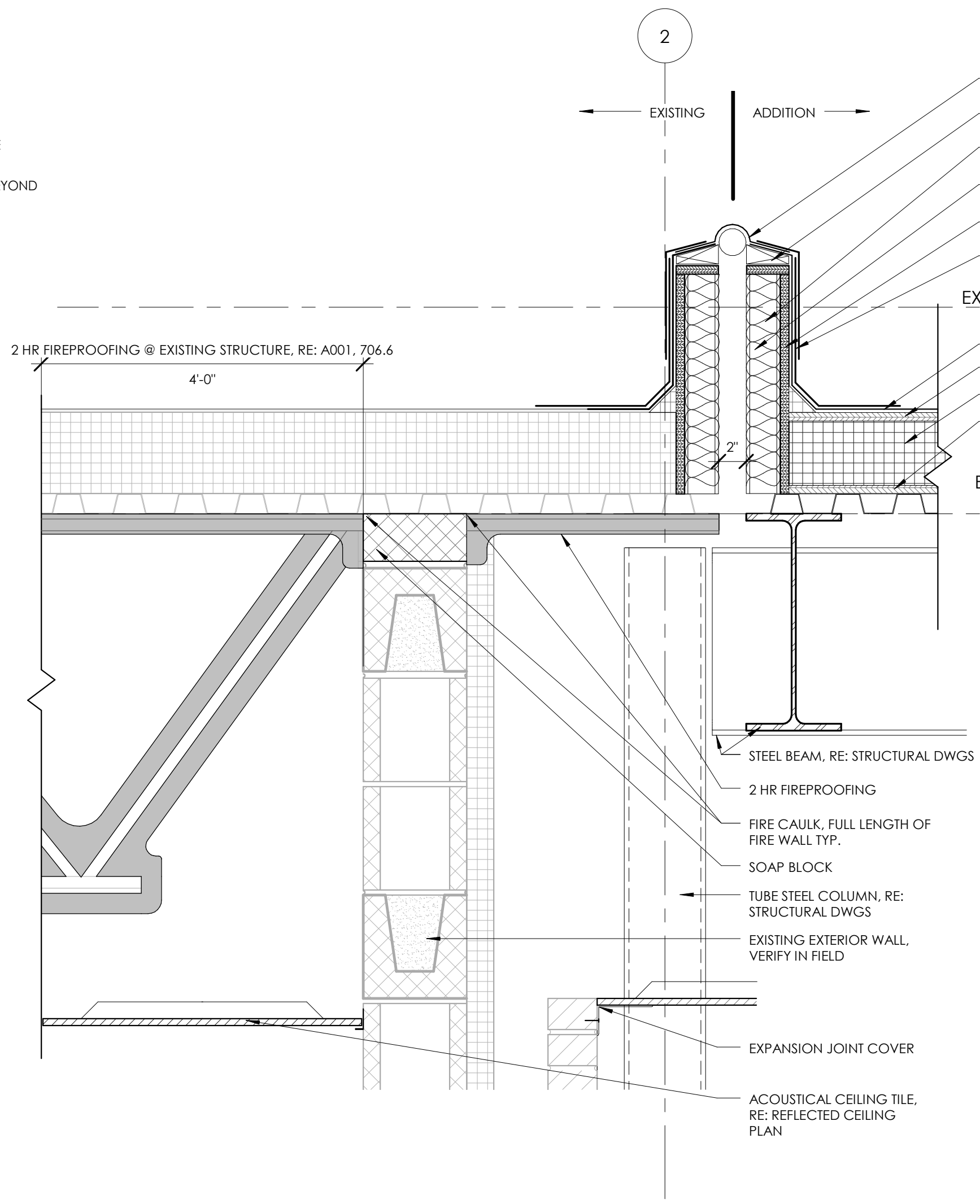
**7 DETAIL @ GYM/FITNESS COMMON WALL**  
 1 1/2" = 1'-0"



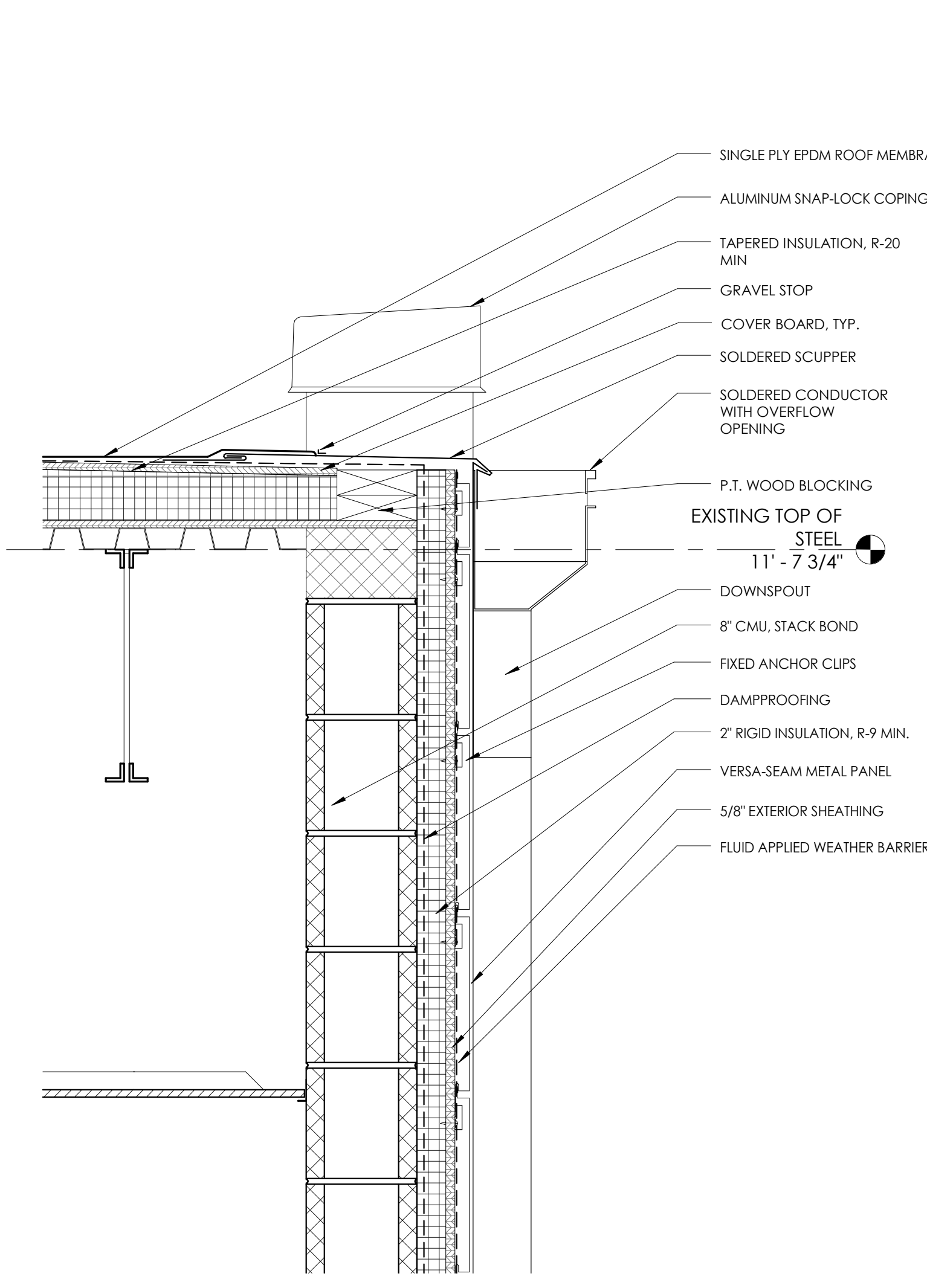
**8 DETAIL @ GYM/LOBBY COMMON WALL**  
 1 1/2" = 1'-0"



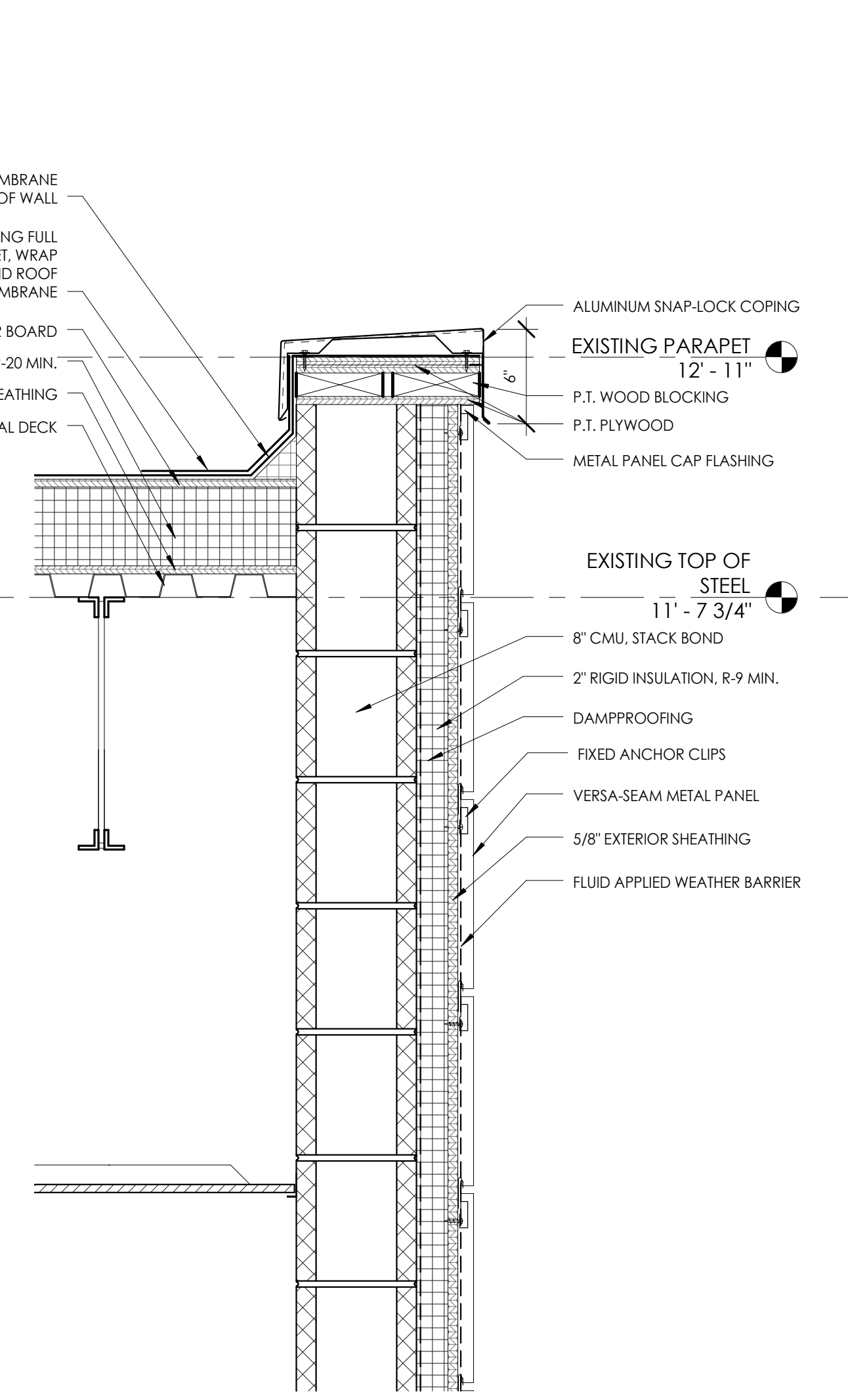
**1 PARAPET SECTION @ LOBBY**  
 1 1/2" = 1'-0"



**2 EXPANSION JOINT @ EXISTING BUILDING**  
 1 1/2" = 1'-0"



**3 DETAIL @ LOCKER ROOM SCUPPER**  
 1 1/2" = 1'-0"



**4 DETAIL @ LOCKER ROOM PARAPET**  
 1 1/2" = 1'-0"

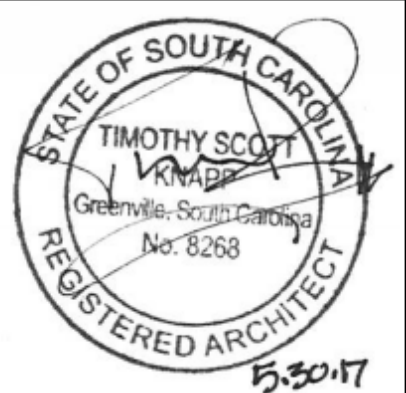
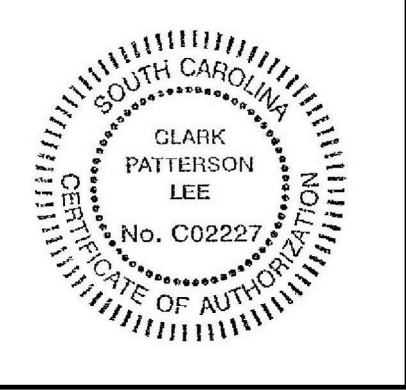
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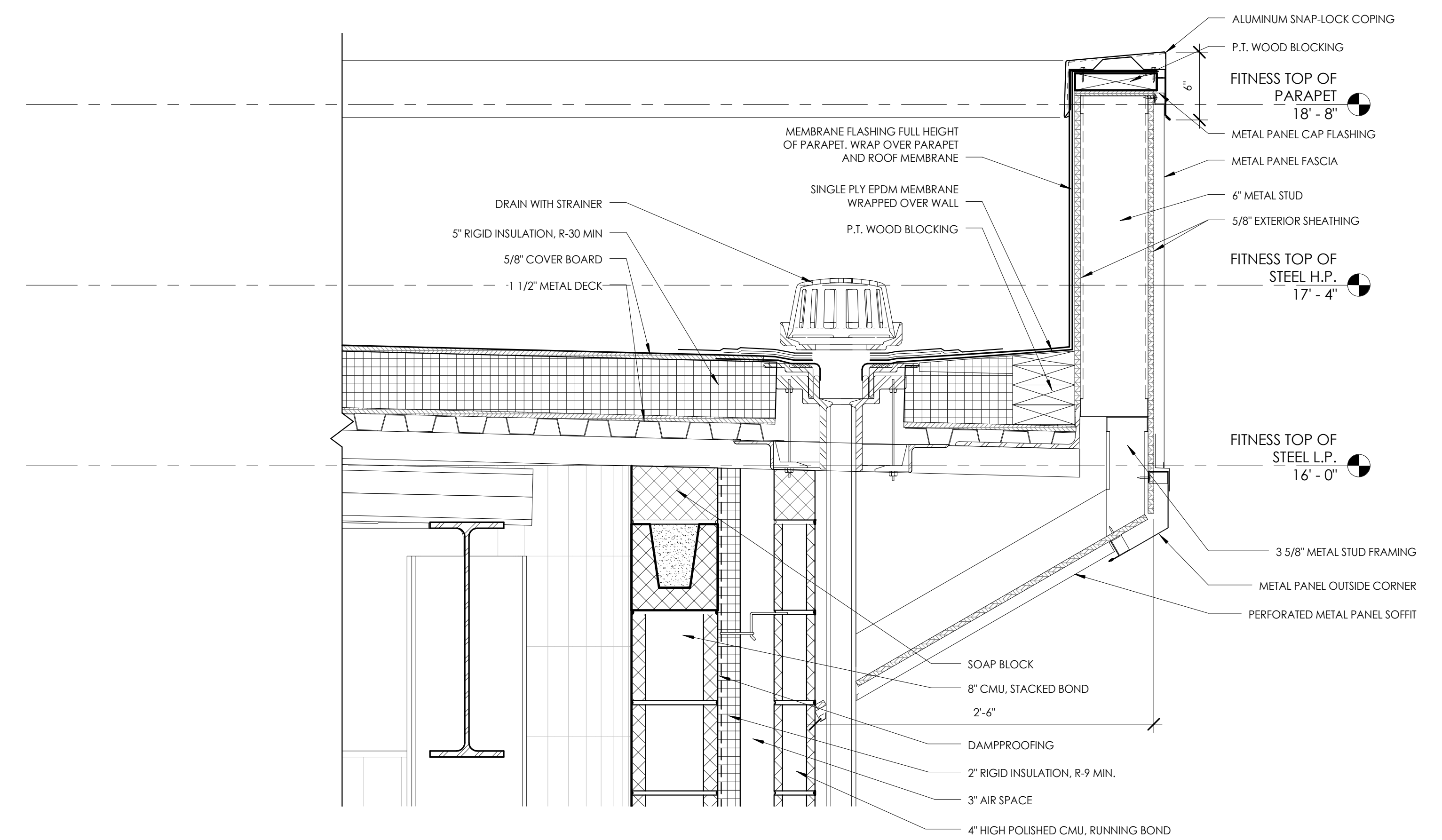
NO.	DATE	BY	CHKD	DESCRIPTION



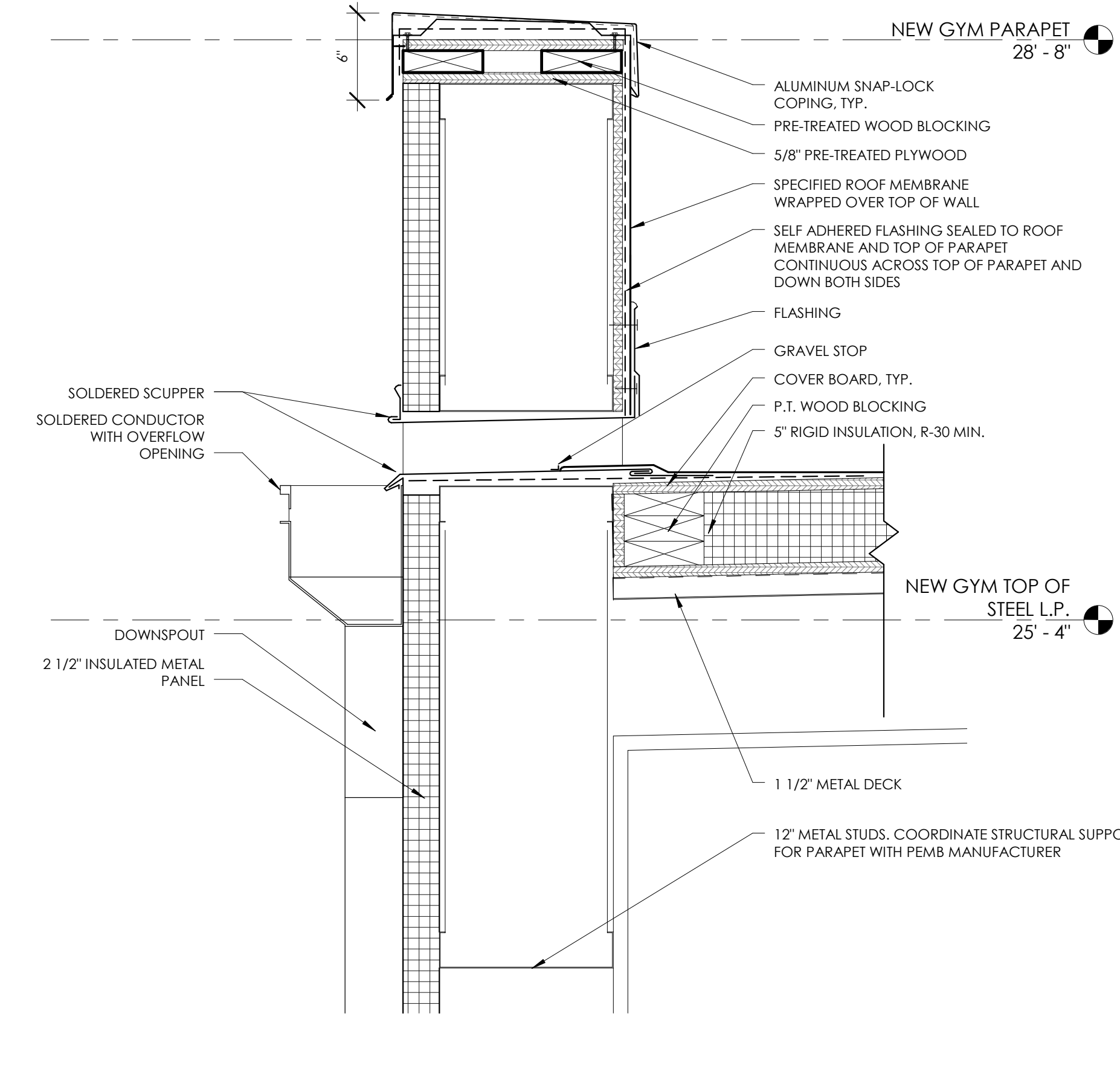
COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG
SCALE 1 1/2" = 1'-0"		
SHEET TITLE		
ROOF DETAILS		

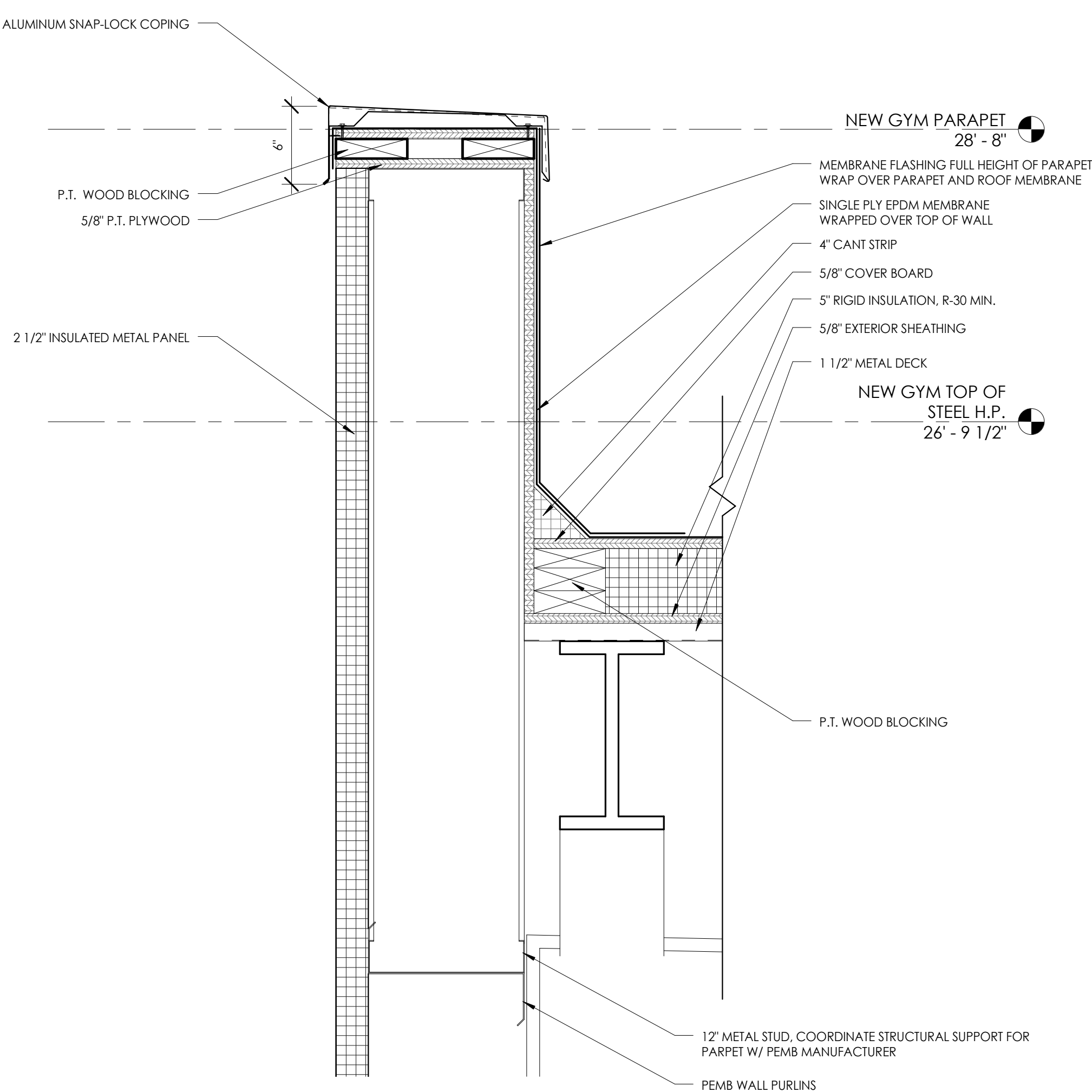
PROJECT NUMBER	13674.00
CC A802	
DRAWING NUMBER	



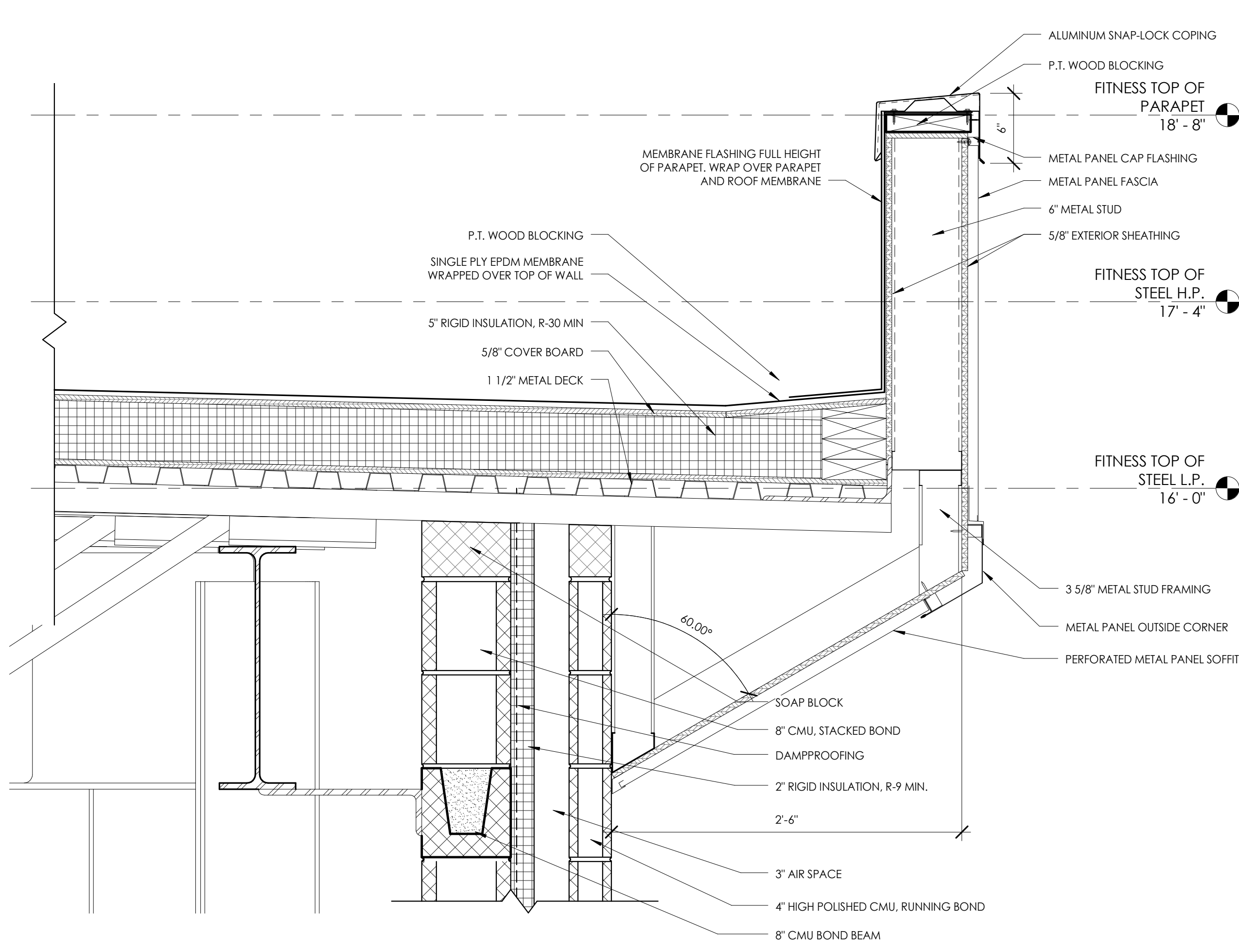
**4**  
A802  
1 1/2" = 1'-0"  
DETAIL @ FITNESS ROOF DRAIN



**2**  
A802  
1 1/2" = 1'-0"  
DETAIL @ GYM SCUPPER AND DOWNSPOUT



**1**  
A802  
1 1/2" = 1'-0"  
DETAIL @ GYM PARAPET



**3**  
A802  
1 1/2" = 1'-0"  
DETAIL @ FITNESS PARAPET

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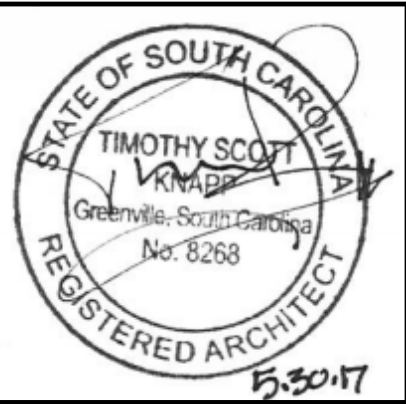
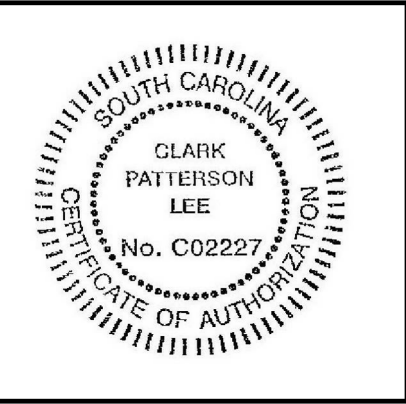






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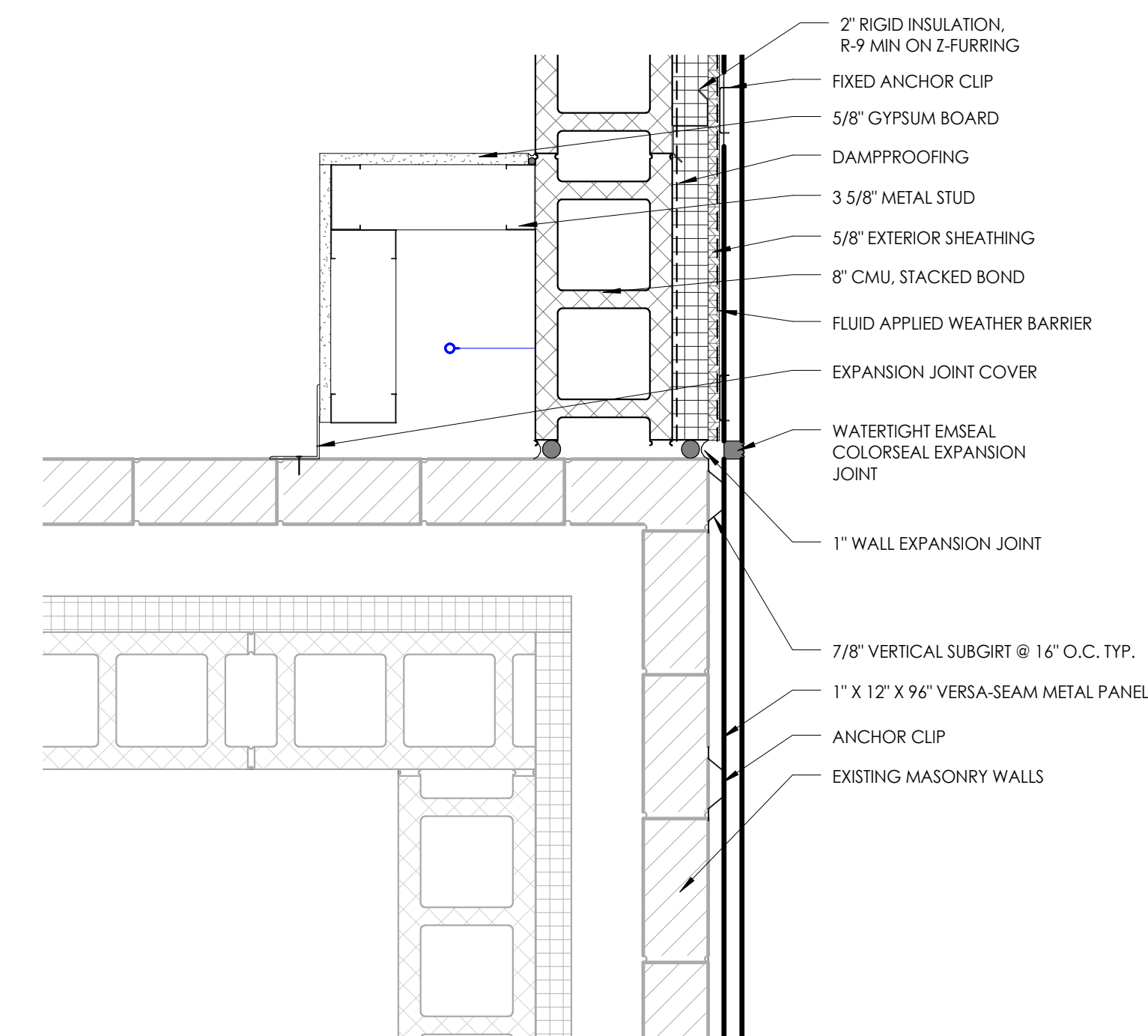
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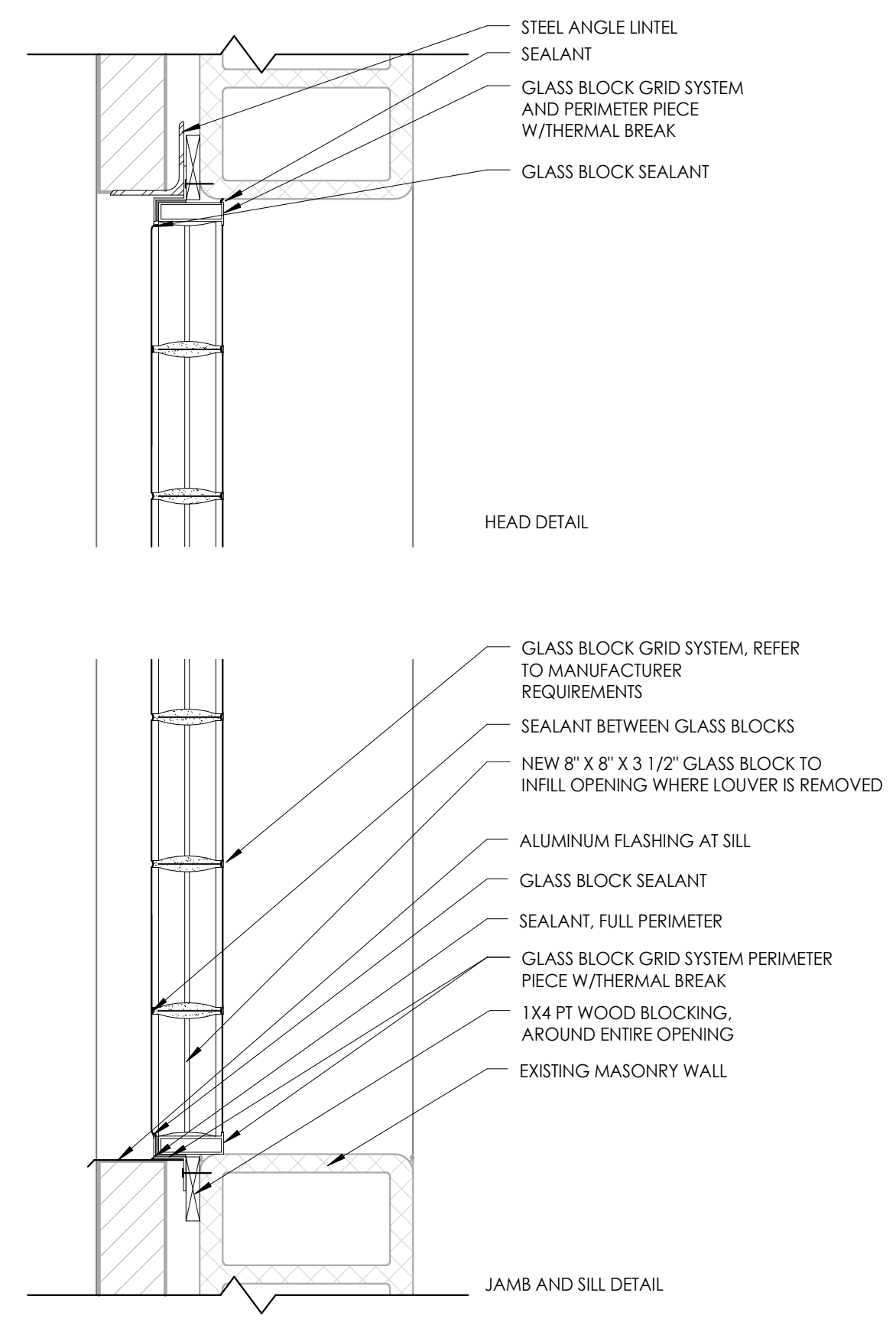
**COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION**  
 280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	DS	RFG
SCALE 1 1/2" = 1'-0"		
SHEET TITLE PLAN DETAILS		

PROJECT NUMBER	13674.00
<b>CC</b>	<b>A811</b>
DRAWING NUMBER	



**2 PLAN DETAIL @ LOCKER ROOM ADDITION**  
 A811 1 1/2" = 1'-0"

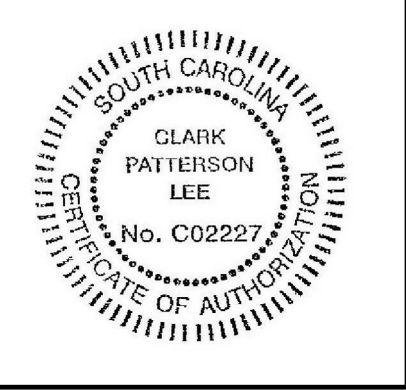


**1 PLAN AND HEAD DETAIL @ GLASS BLOCK**  
 A811 1 1/2" = 1'-0"

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NO.	DATE	BY	CHKD	DESCRIPTION

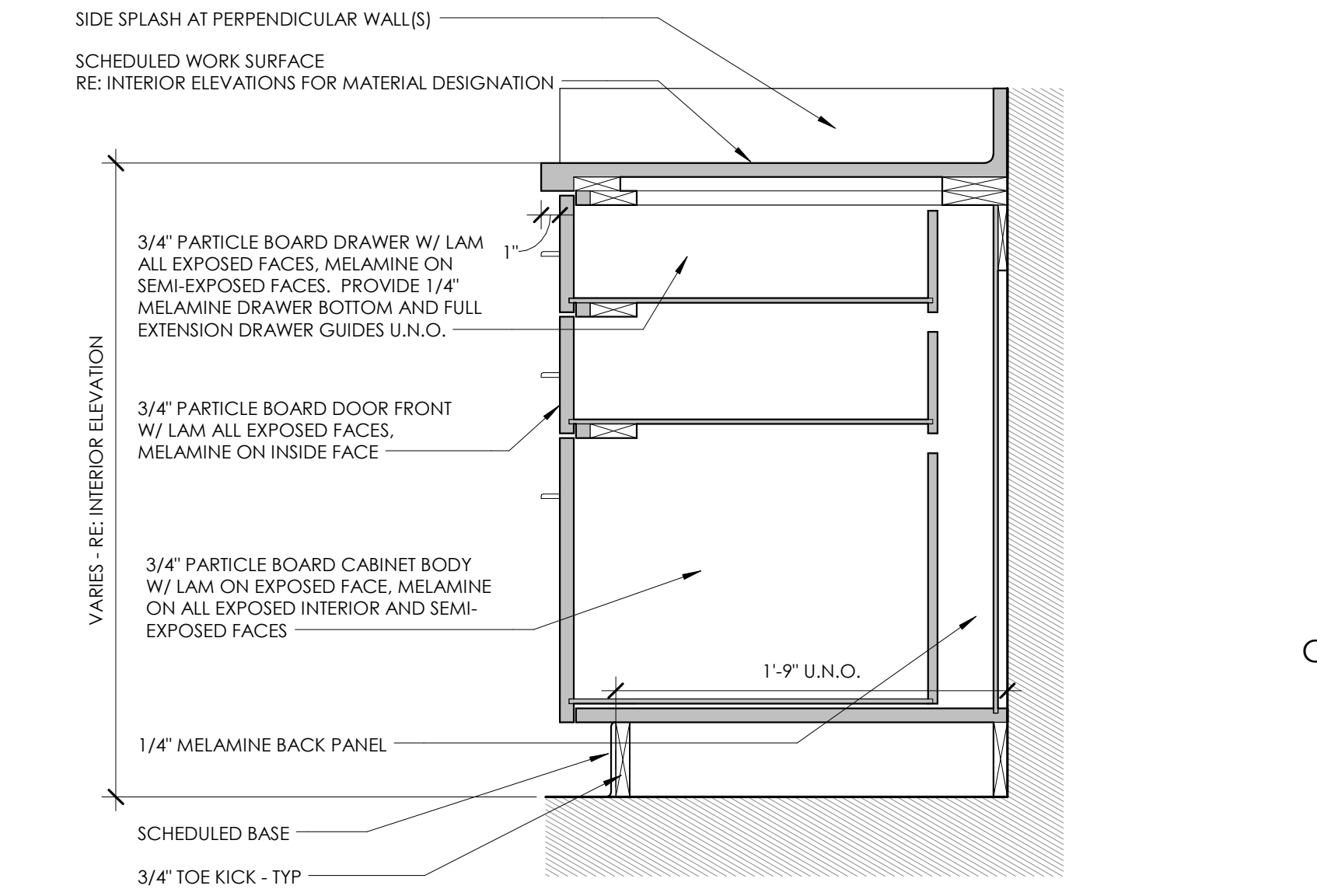
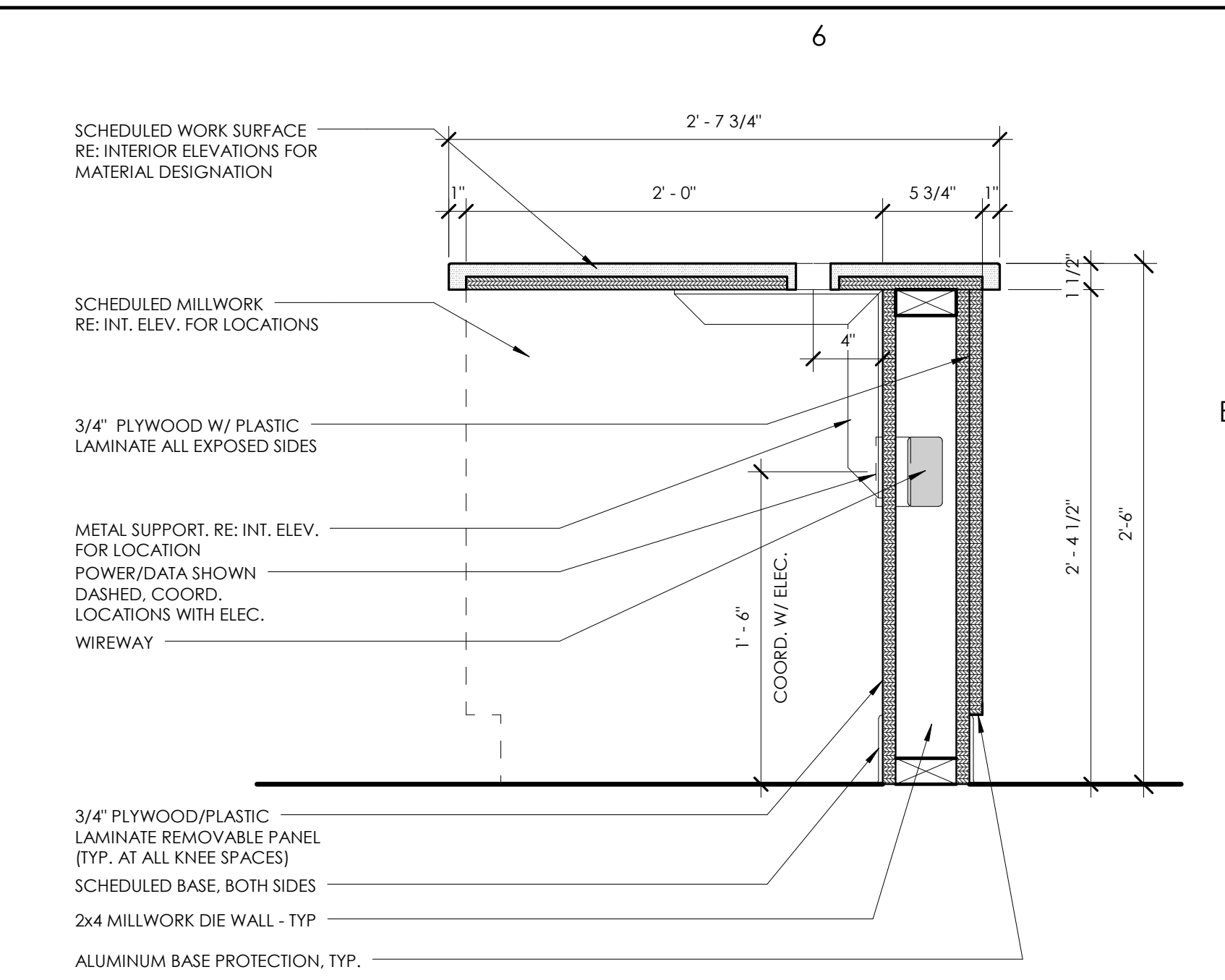


COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO SC 29488

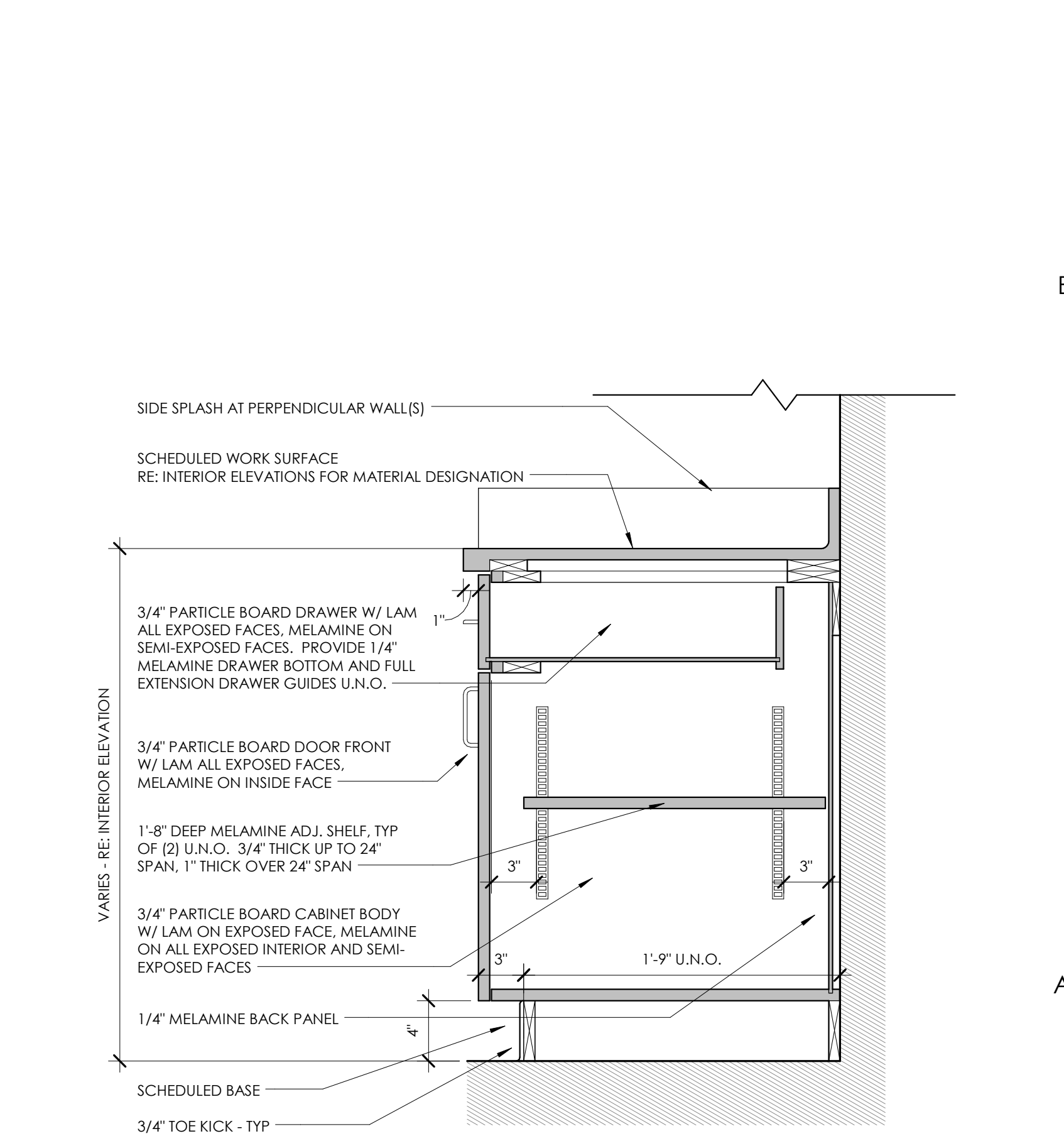
DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG

SCALE: As indicated  
SHEET TITLE: TYPICAL CEILING AND MILLWORK DETAILS

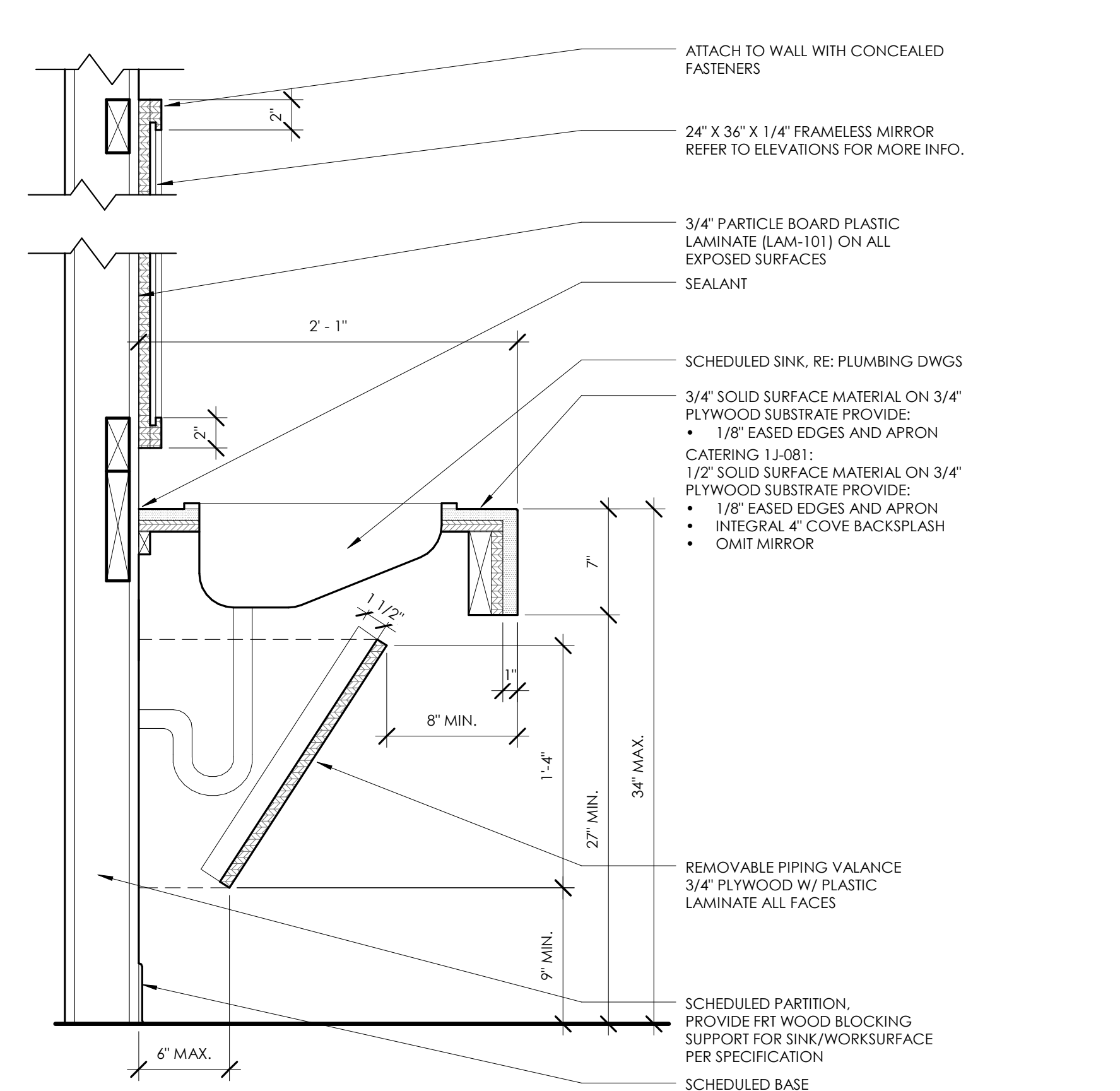
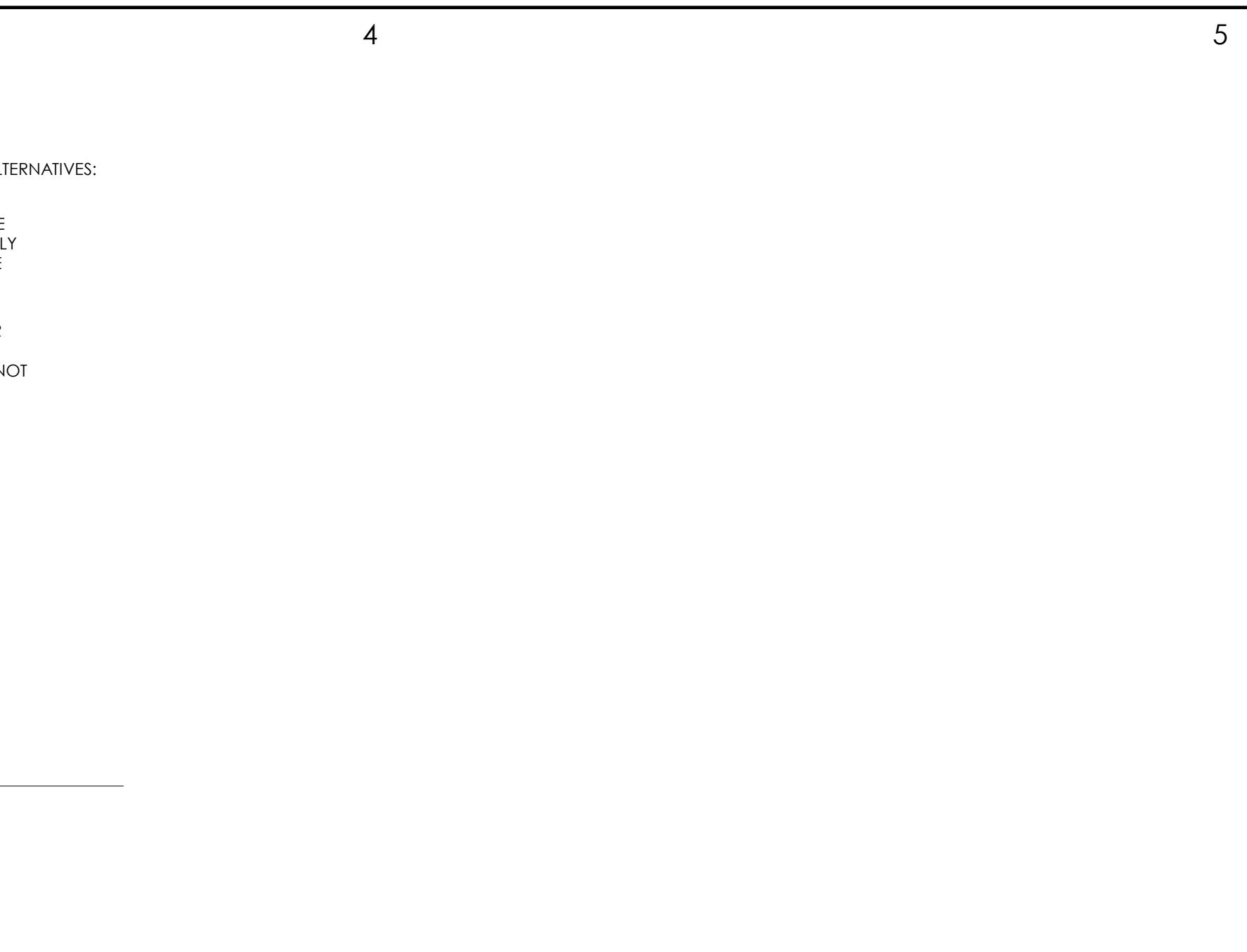
PROJECT NUMBER: 13674.00
CC A820
DRAWING NUMBER



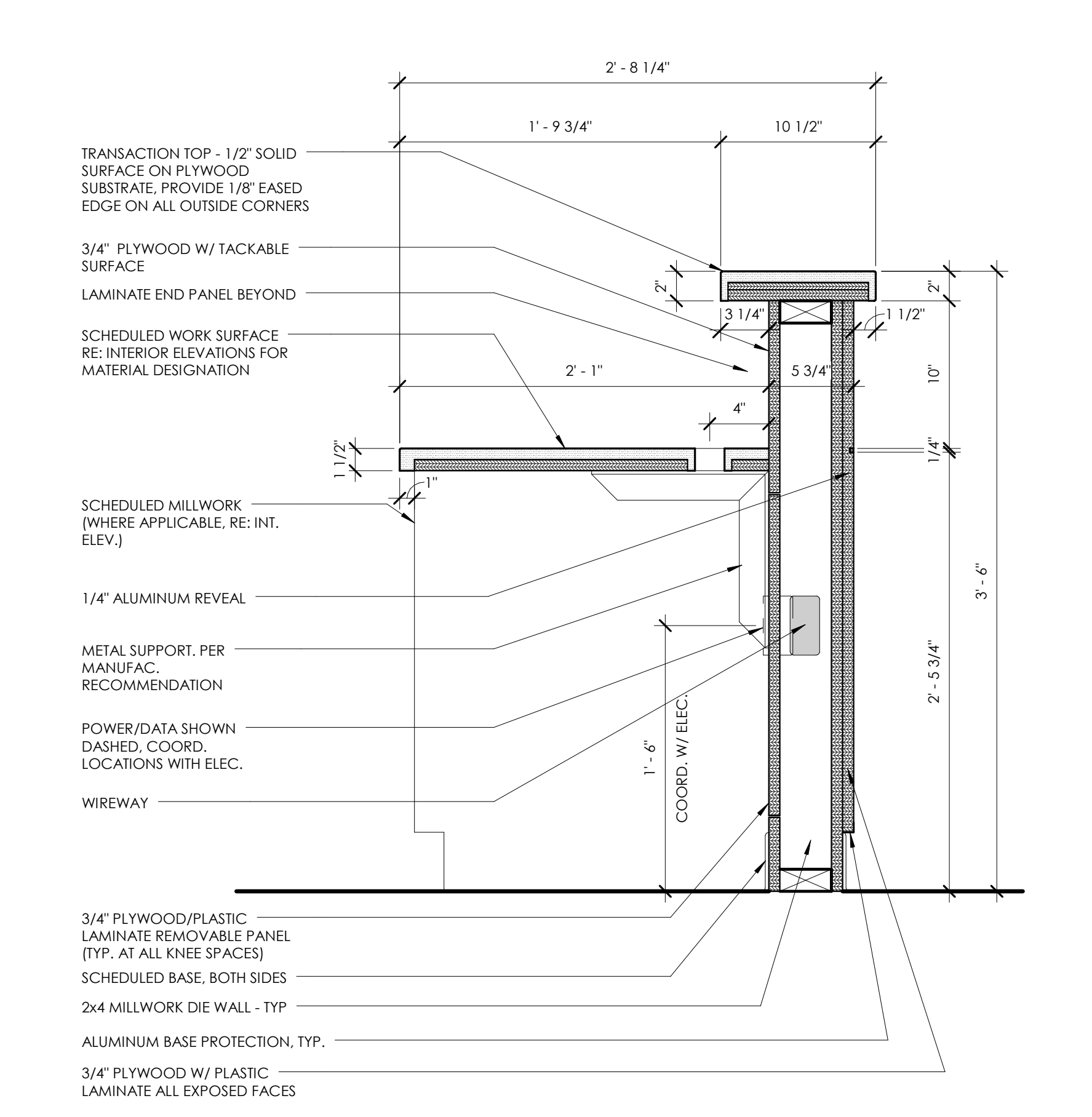
**2 TYPICAL BASE CABINET W/ DRAWERS**  
1 1/2" = 1'-0"



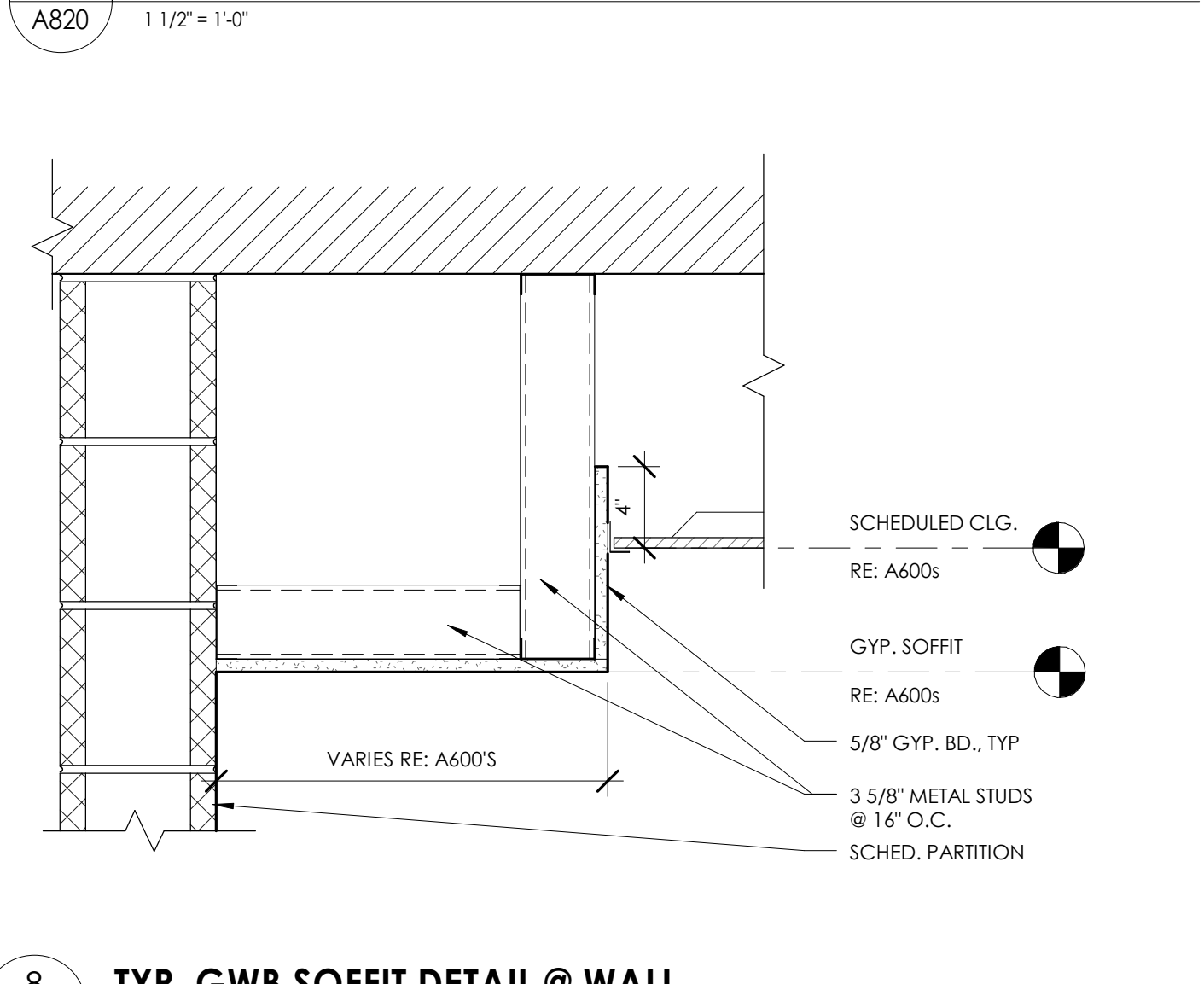
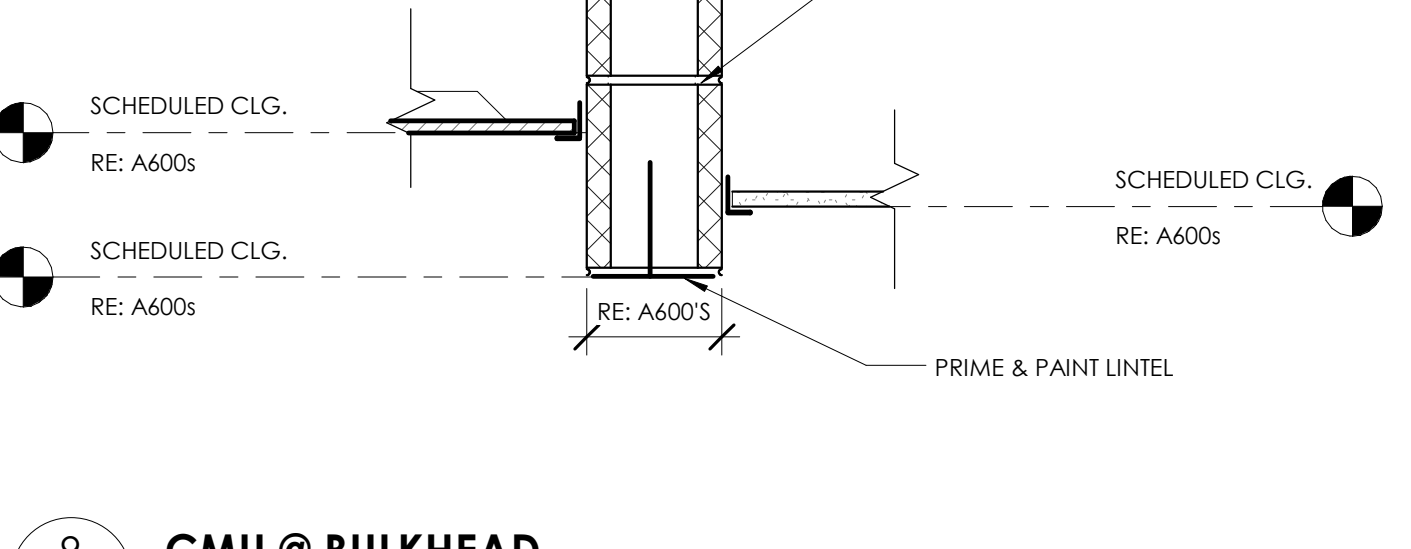
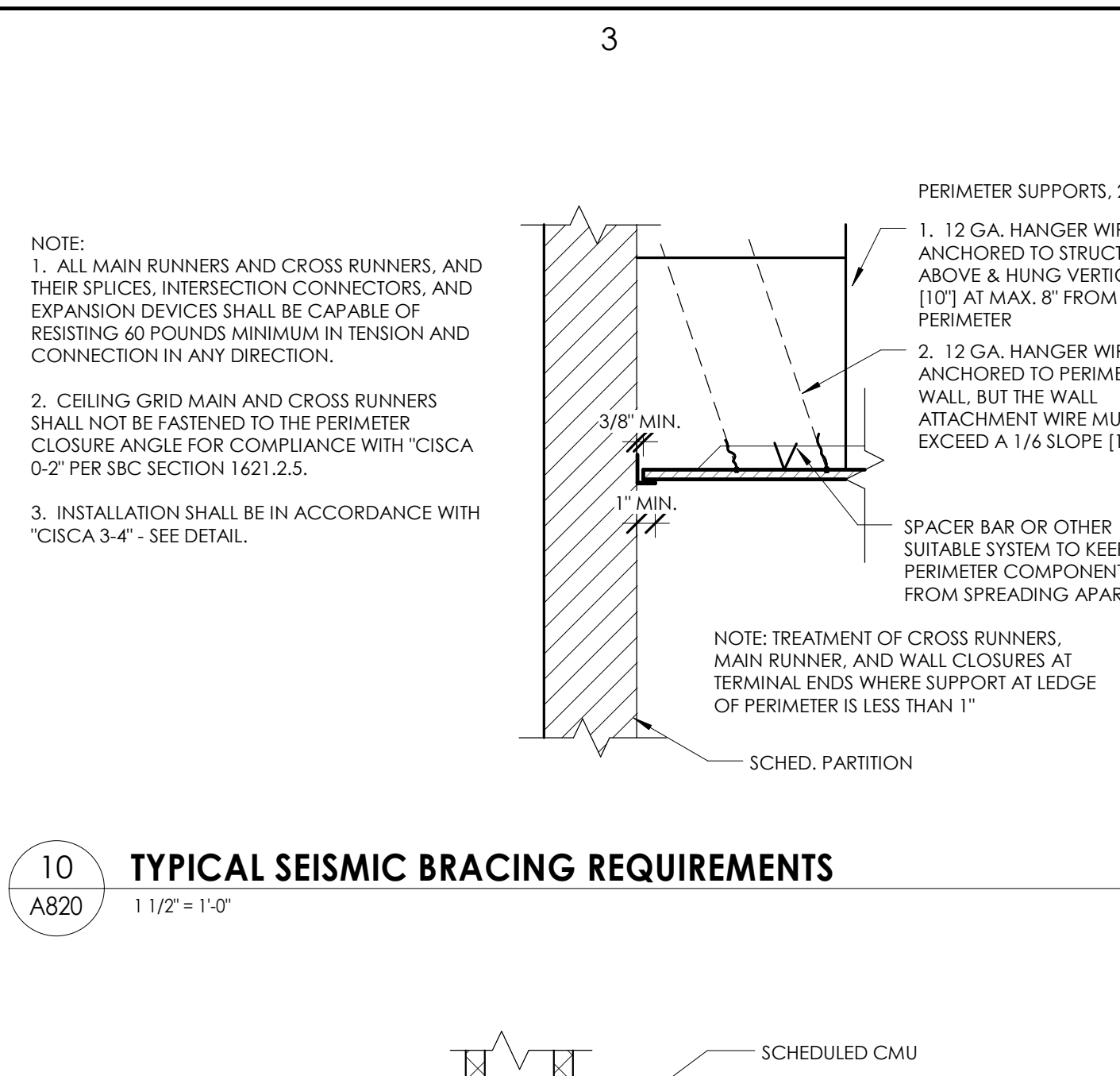
**1 TYPICAL BASE & UPPER CABINET MILLWORK SECTION**  
1 1/2" = 1'-0"



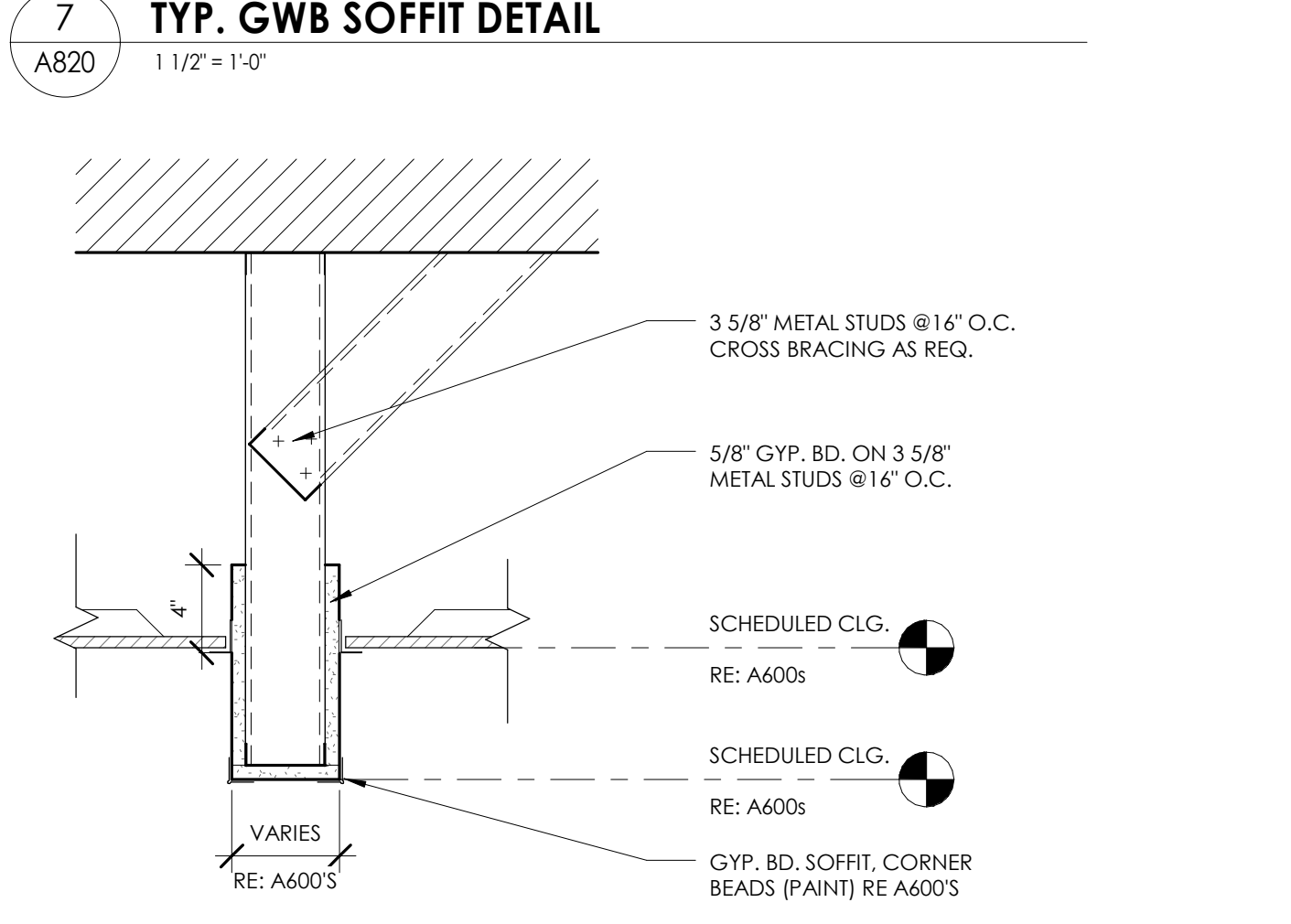
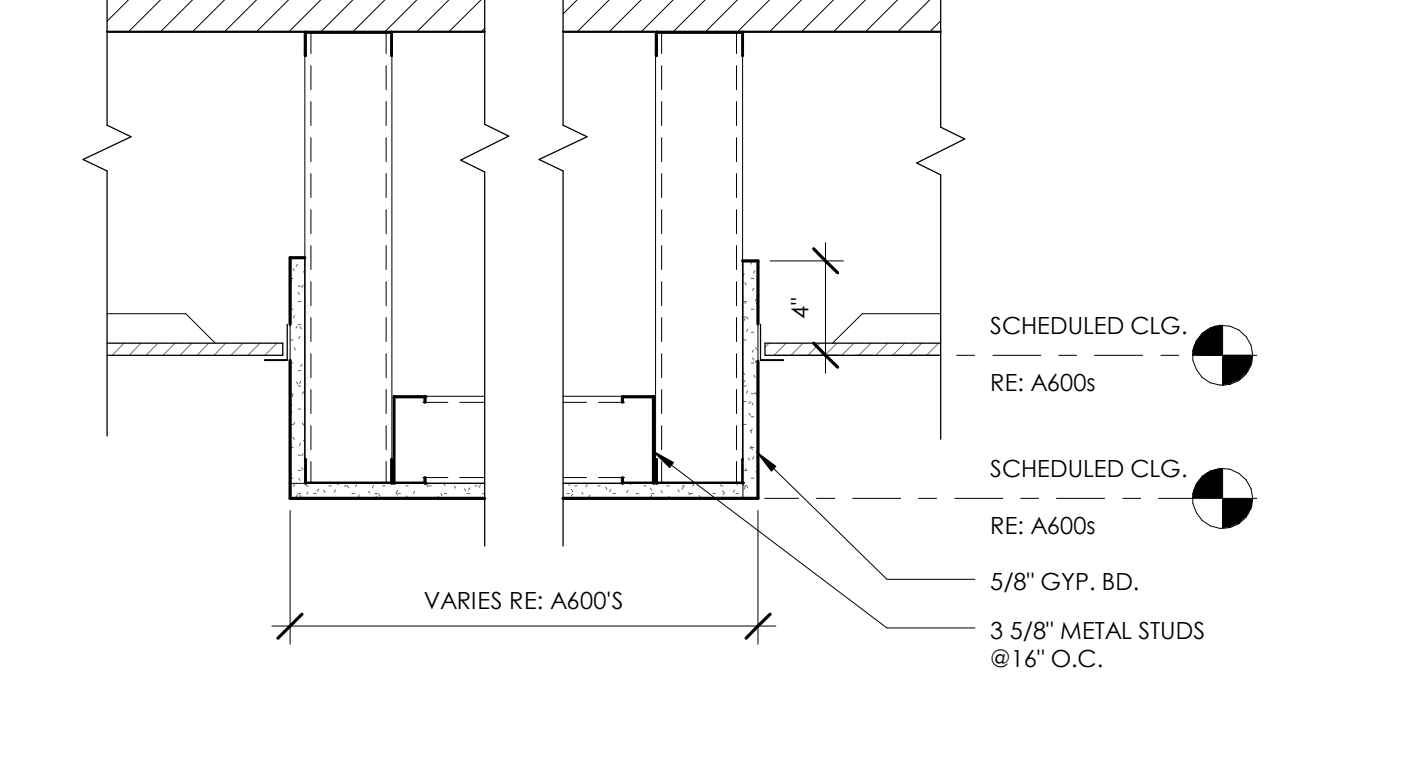
**5 SOLID SURFACE COUNTERTOP WITH SINK SECTION AND MIRROR**  
1 1/2" = 1'-0"



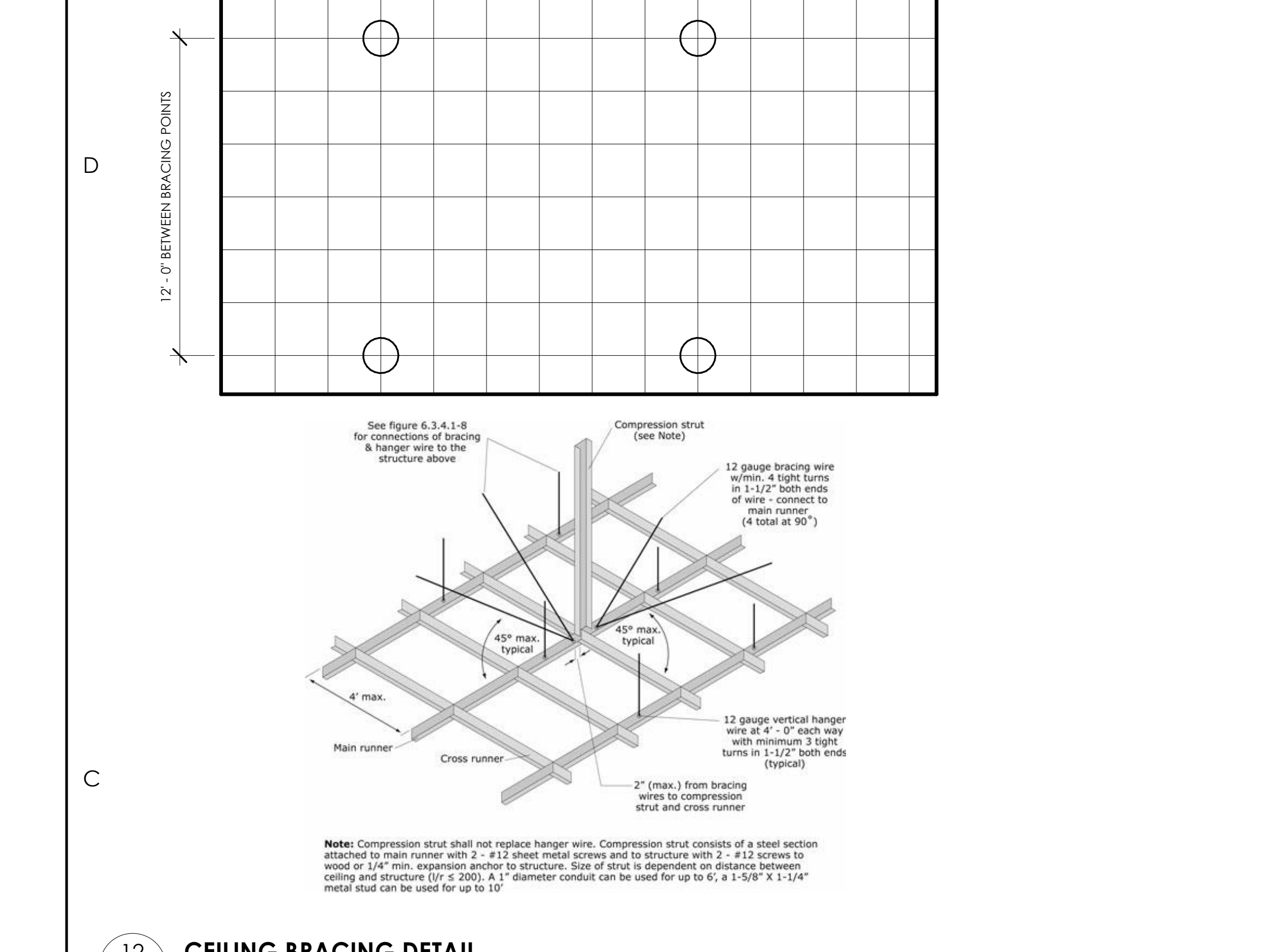
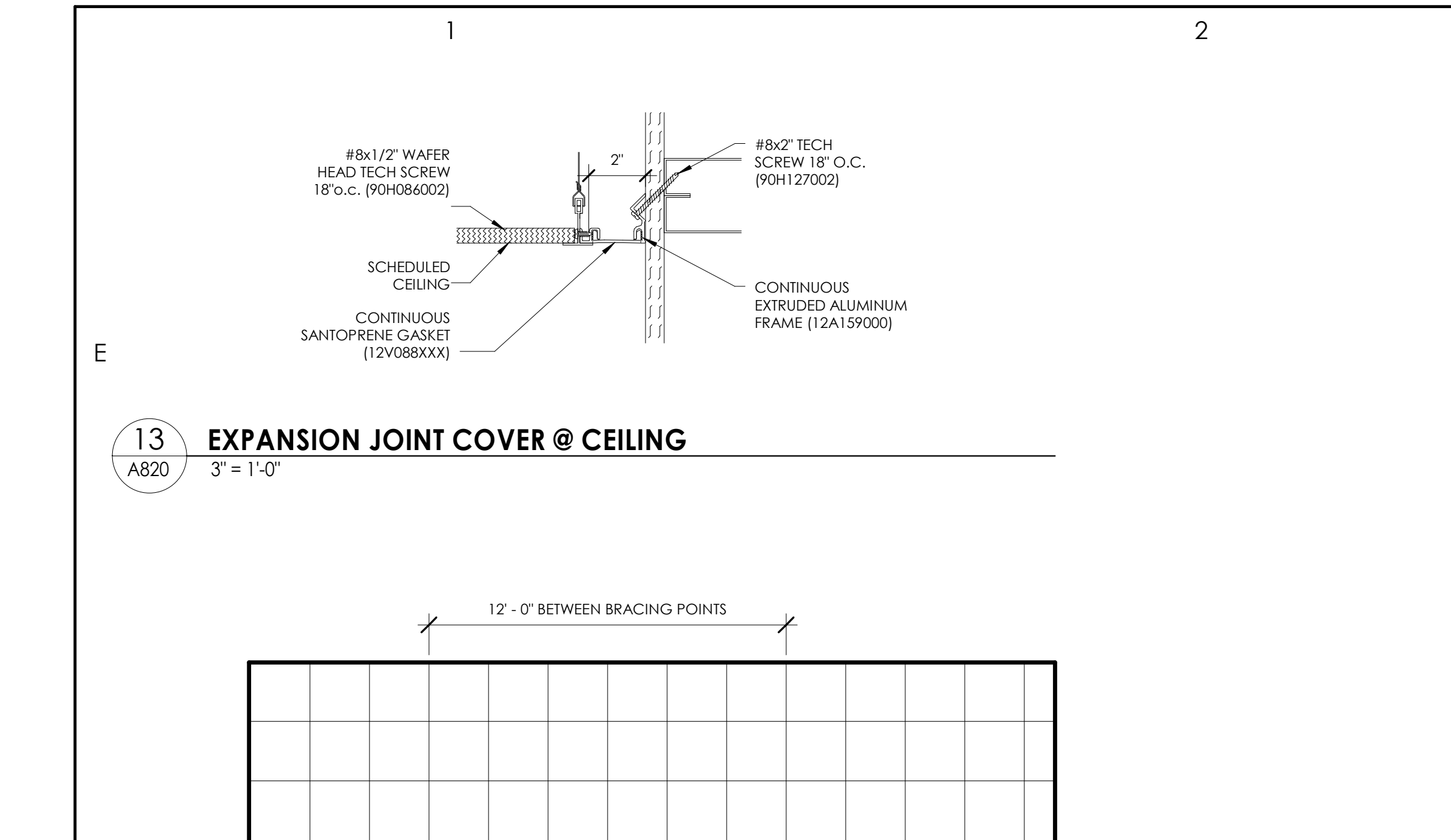
**4 RECEPTION DESK @ TRANSACTION TOP**  
1 1/2" = 1'-0"



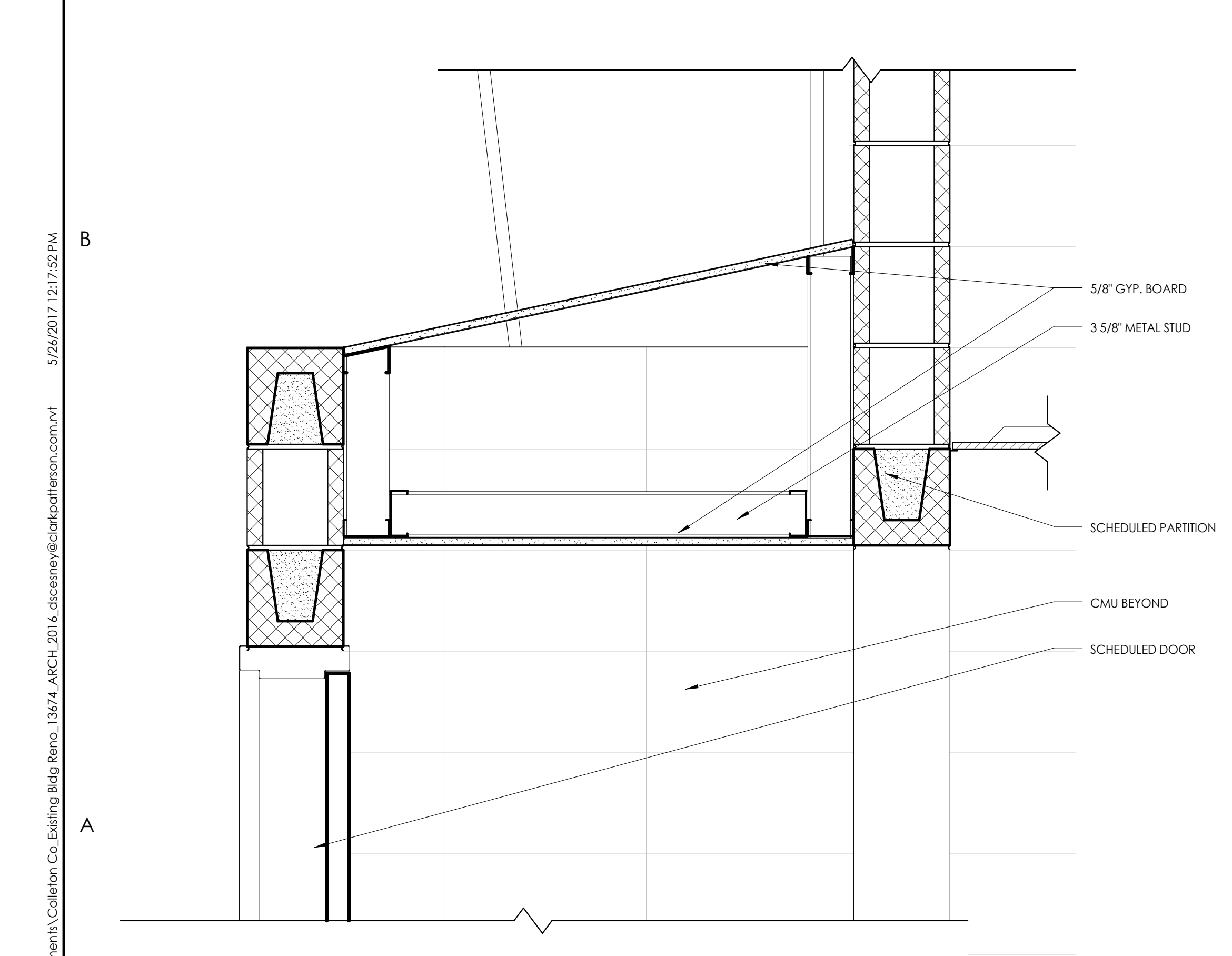
**8 TYP. GWB SOFFIT DETAIL @ WALL**  
1 1/2" = 1'-0"



**6 BULKHEAD DETAIL**  
1 1/2" = 1'-0"



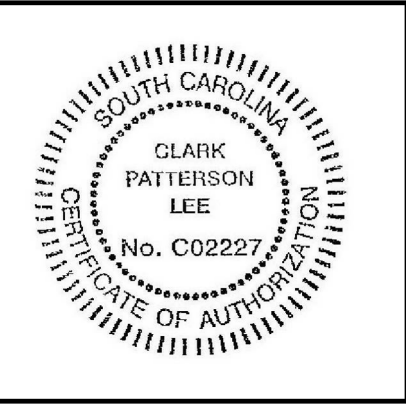
**12 CEILING BRACING DETAIL**  
1/2" = 1'-0"



**11 DETAIL @ CEILING AT CMU WALL**  
1 1/2" = 1'-0"



NO.	DATE	BY	CHKD	DESCRIPTION



COLLETON COUNTY  
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 280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG
SCALE	As indicated	
SHEET TITLE	DOOR SCHEDULE, DOOR FRAMES, AND WINDOW TYPES	

PROJECT NUMBER	13674.00
DRAWING NUMBER	CC A900

Door No.	SIZE		Type	MAT'L/ FINISH	LABEL RATING	FRAMES			AAOS Project HW Set	REMARKS		
	WIDTH	HEIGHT				FRAME TYPE	HEAD/JAMB DETAIL #'S	MAT'L/ FINISH			GLASS TYPE	
100-1	6'-0"	7'-0"	FG-FG	ALUM	-	EXIST	EXIST	EXIST	G3	1.0	REPLACE DOOR WITH NEW IN EXISTING FRAME. VERIFY SIZE IN FIELD. PANIC HARDWARE.	
100-2	6'-0"	7'-0"	FG-FG	ALUM	-	EXIST	EXIST	EXIST	G3	2.0	REPLACE DOOR WITH NEW IN EXISTING FRAME. VERIFY SIZE IN FIELD. PANIC HARDWARE.	
101-3	6'-0"	7'-0"	F-F	HM/PT	-	EXIST	EXIST	EXIST	-	4.0	REPLACE DOOR WITH NEW IN EXISTING FRAME. VERIFY SIZE IN FIELD. PANIC HARDWARE.	
101-4	3'-0"	7'-0"	F	HM/PT	-	EXIST	EXIST	EXIST	-	3.0	REPLACE DOOR WITH NEW IN EXISTING FRAME. VERIFY SIZE IN FIELD. ALTERNATE 01: CARD ACCESS CONTROL : HW# 3.1	
102-2	3'-0"	7'-0"	F	WD/ST	90 MIN	-	-	-	-	12.0	REPLACE DOOR AND FRAME WITH NEW IN EXISTING OPENING. VERIFY SIZE IN FIELD. MAGNETIC LOCK WITH HOLD OPENS	
121-1	3'-0"	7'-0"	F	WD/ST	-	1	1/A900, 2/A900	HM/PT	-	15.0	-	
123-1	6'-0"	7'-0"	NG-NG	WD/ST	-	2	1/A900, 2/A900	HM/PT	G2	8.0	PANIC HARDWARE	
123-2	6'-0"	7'-0"	F-F	WD/ST	90 MIN	2	1/A900, 2/A900	HM/PT	-	9.0	MAGNETIC LOCK WITH HOLD OPENS, PANIC HARDWARE.	
124-1	3'-0"	7'-0"	F	WD/ST	-	1	1/A900, 2/A900	HM/PT	-	13.0	-	
125-1	3'-0"	7'-0"	F	WD/ST	-	1	1/A900, 2/A900	HM/PT	-	15.0	-	
127-1	3'-0"	7'-0"	F	WD/ST	90 MIN	1	-	-	-	11.0	-	
129-1	6'-6"	7'-0"	FG-FG	ALUM	-	D	-	-	ALUM	G3	1.0	PANIC HARDWARE. ALTERNATE 01: CARD ACCESS CONTROL : HW# 1.1
130-1	7'-0"	7'-0"	FG-FG	ALUM	-	C	-	-	ALUM	G3	1.0	PANIC HARDWARE. ALTERNATE 01: CARD ACCESS CONTROL : HW# 1.1
132-1	3'-0"	7'-0"	F	WD/ST	-	1	1/A900, 2/A900	HM/PT	-	10.0	-	
133-1	6'-0"	7'-0"	NG-NG	WD/ST	-	2	1/A900, 2/A900	HM/PT	G2	8.0	PANIC HARDWARE	
133-2	6'-0"	7'-0"	NG-NG	WD/ST	-	2	1/A900, 2/A900	HM/PT	G2	8.0	PANIC HARDWARE	
133-3	6'-0"	7'-0"	F-F	HM/PT	-	4	-	-	HM/PT	-	5.0	PANIC HARDWARE. ALTERNATE 01: CARD ACCESS CONTROL : HW# 5.1
133-4	6'-0"	7'-0"	F-F	HM/PT	-	4	-	-	HM/PT	-	5.0	PANIC HARDWARE. ALTERNATE 01: CARD ACCESS CONTROL : HW# 5.1
134-1	6'-0"	7'-0"	F-F	WD/ST	-	2	1/A900, 2/A900	HM/PT	-	14.0	UNDERCUT DOORS 1"	
134-2	6'-0"	7'-0"	F-F	WD/ST	-	2	1/A900, 2/A900	HM/PT	-	14.0	-	
135-1	6'-0"	7'-0"	F-F	WD/ST	45 MIN	2	1/A900, 2/A900	HM/PT	-	7.0	PANIC HARDWARE	
136-1	6'-0"	7'-0"	NG-NG	WD/ST	-	2	1/A900, 2/A900	HM/PT	G2	8.0	-	
136-2	6'-0"	7'-0"	F	HM/PT	-	1	-	-	HM/PT	-	4.0	ALTERNATE 01: CARD ACCESS CONTROL : HW# 4.1

**DOOR AND FRAME NOTES**

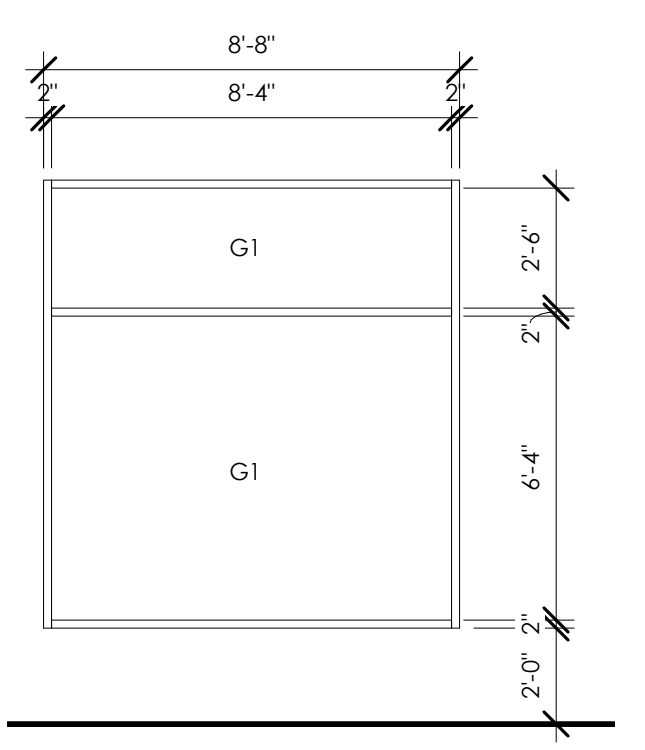
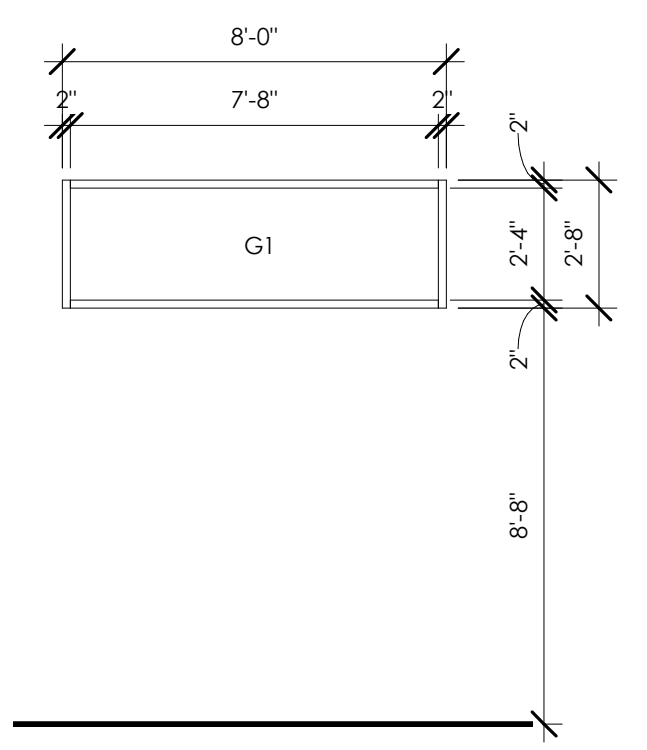
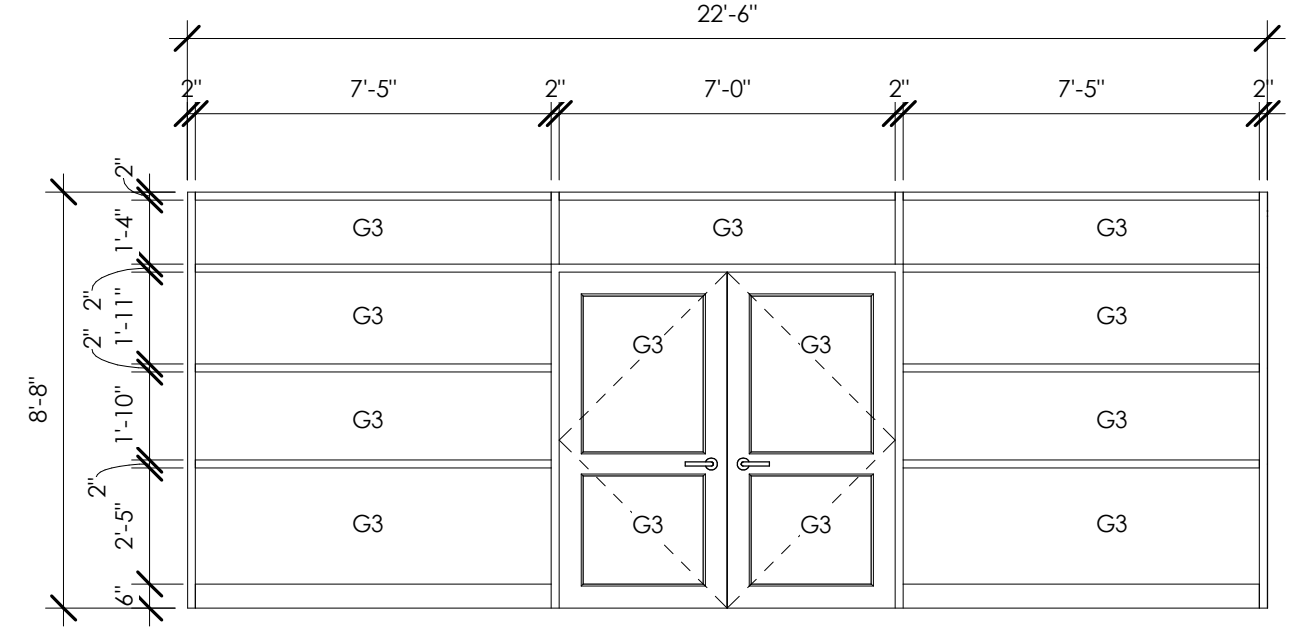
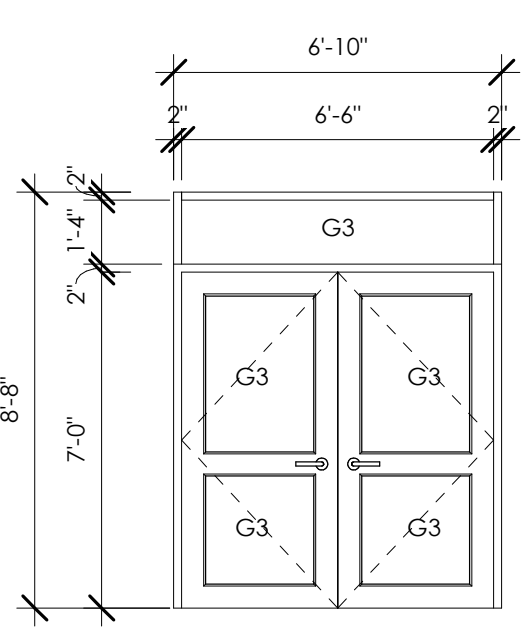
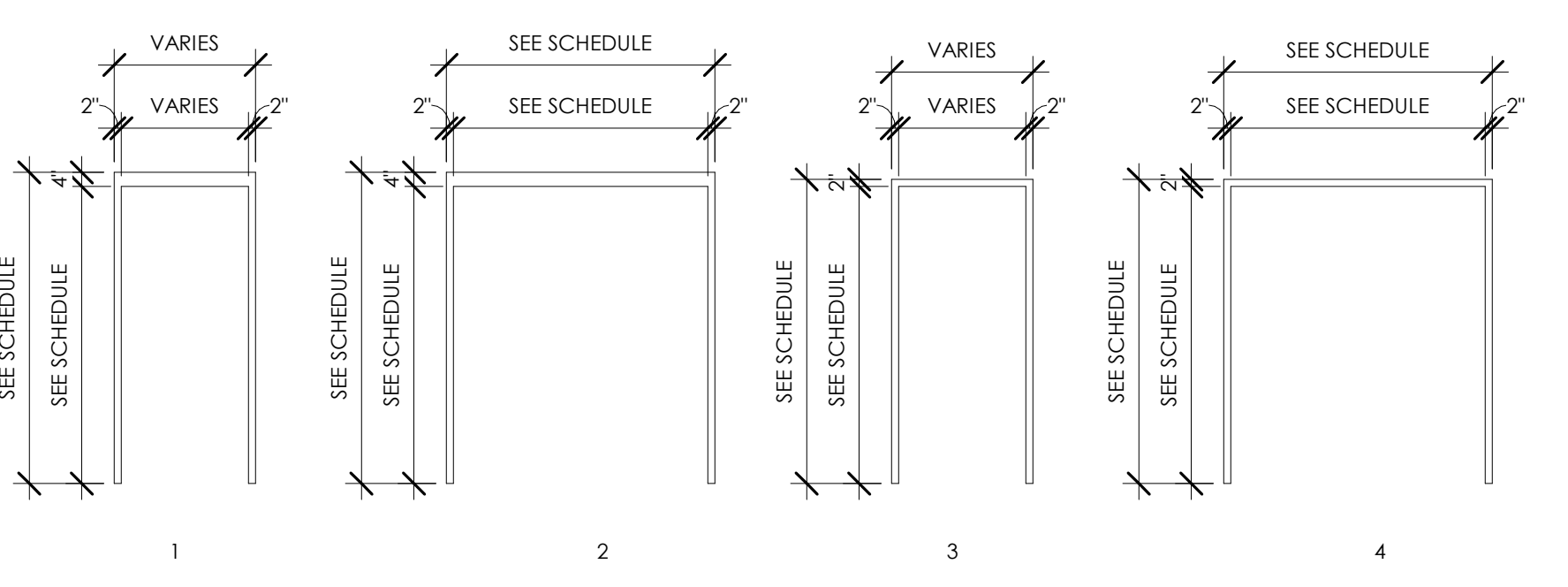
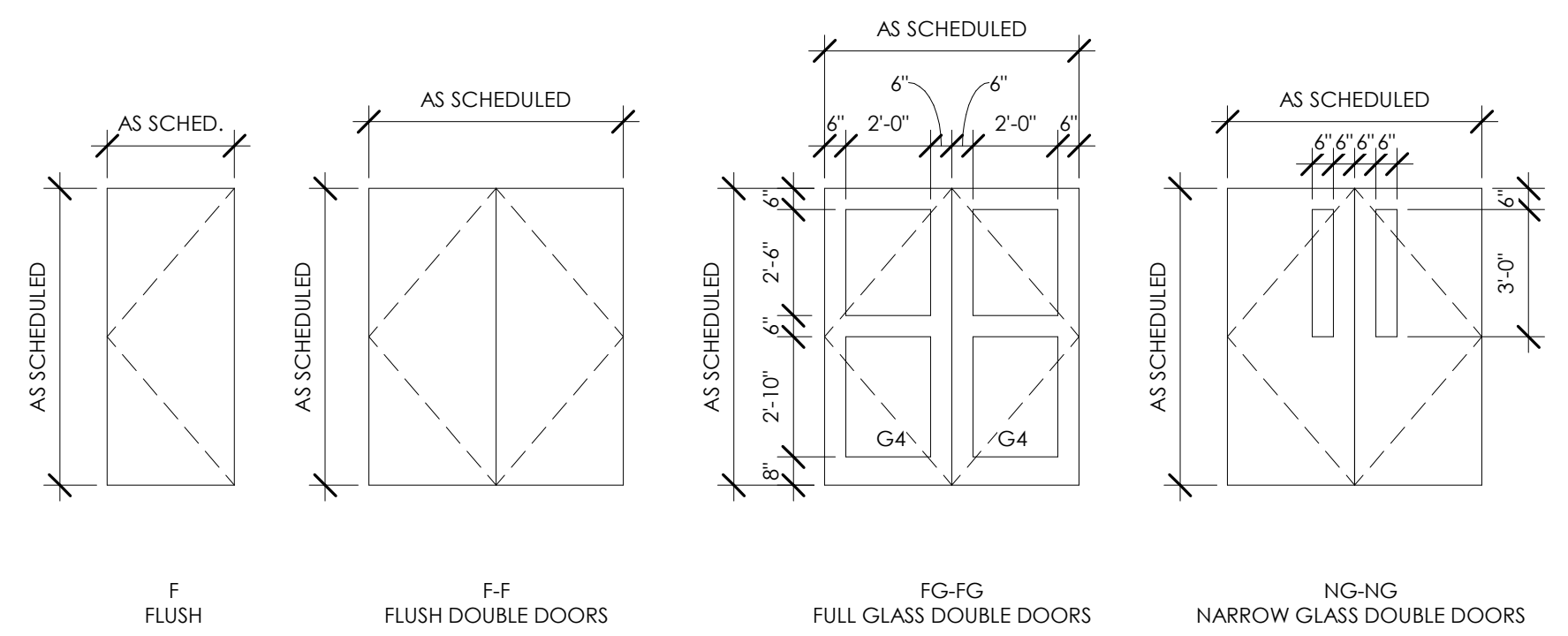
- ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT, INTERIOR AND EXTERIOR.
- ALL DOOR AND WINDOW DIMENSIONS ARE TO BE VERIFIED IN FIELD PRIOR TO FABRICATION.

**DOOR AND FRAME SCHEDULE LEGEND**

DOOR OR FRAME MATERIAL		DOOR OR FRAME FINISH	
ACR	ACROVYN DOOR	PTD	PAINT
ACR-L	ACROVYN LEAD LINED DOOR	ST	WOOD STAIN
ALUM	ALUMINUM	DB	DARK BRONZE (ANODIZED)
HM	HOLLOW METAL	SS	STAINLESS STEEL
HM-L	HOLLOW METAL LEAD LINED	BE	BAKED ENAMEL
IHM	INSULATED HOLLOW METAL		
WD	WOOD		
WD-L	WOOD LEAD LINED		

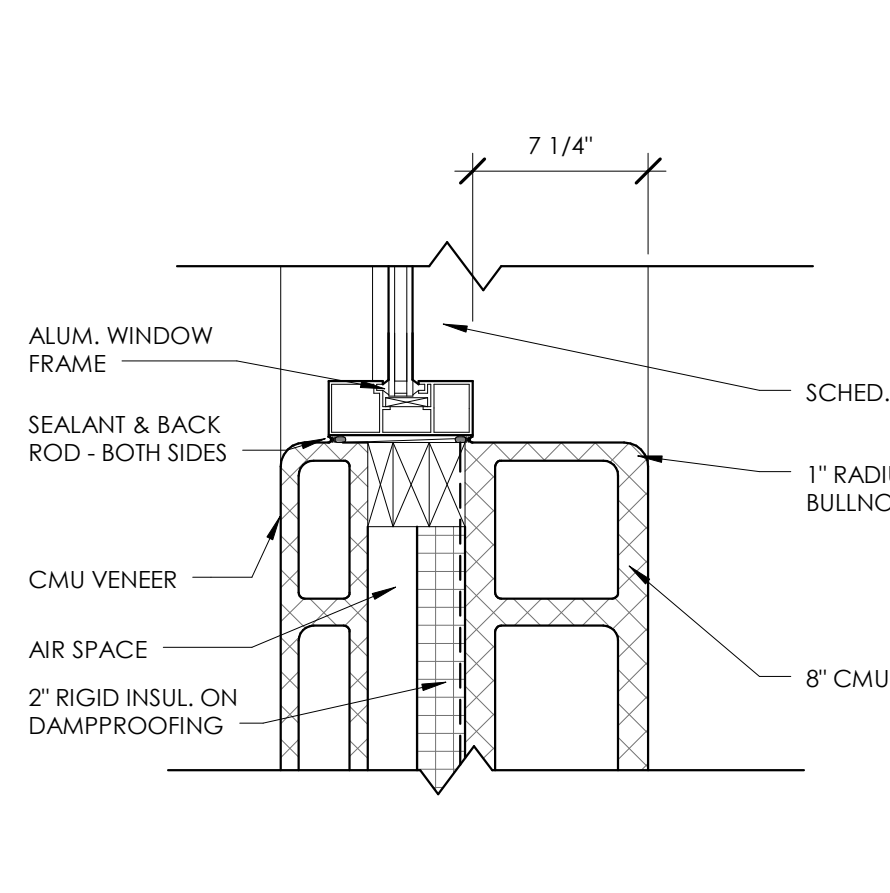
**GLASS TYPES:**

G1	1" INSULATED LOW E GLASS
G2	1/4" TEMPERED GLASS
G3	1" INSULATED TEMPERED GLASS

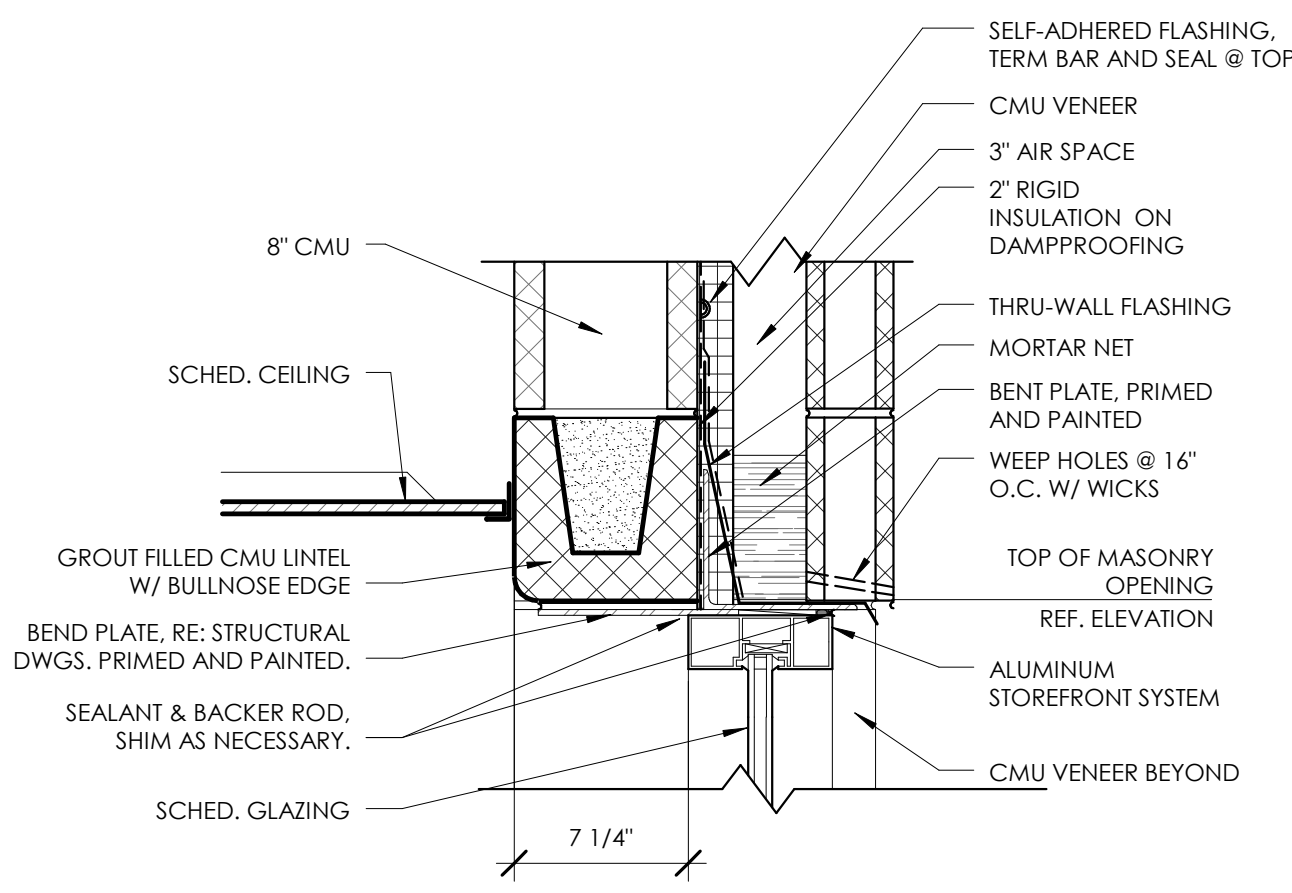


Door No.	DOORS SIZE		Type	AAOS Project HW Set	REMARKS
	WIDTH	HEIGHT			
101-1	6'-0"	7'-0"	F-F	14.0	PANIC HARDWARE
101-2	6'-0"	7'-0"	F-F	17.0	PANIC HARDWARE
102-1	5'-0"	7'-0"	F-F	26.0	-
103-1	3'-0"	7'-0"	F	22.0	-
104-1	3'-0"	7'-0"	F	19.0	-
105-1	3'-0"	7'-0"	F	19.0	-
106-1	3'-0"	7'-0"	F	19.0	-
107-1	3'-0"	7'-0"	F	18.0	-
108A-1	2'-0"	7'-0"	F	22.0	-
108B-1	2'-0"	7'-0"	F	22.0	-
109-1	3'-0"	7'-0"	F	18.0	-
109-2	3'-0"	7'-0"	F	18.0	-
110-1	3'-0"	7'-0"	F	20.0	-
111-1	3'-0"	7'-0"	F	18.0	-
111-2	3'-0"	7'-0"	F	18.0	-
113-1	3'-0"	7'-0"	F	25.0	-
114-1	3'-0"	7'-0"	F	25.0	-
116-1	3'-0"	7'-0"	F	22.0	-
117-1	6'-0"	7'-0"	F-F	23.0	-
118-1	3'-0"	7'-0"	F	20.0	-
118-2	3'-0"	7'-0"	F	20.0	-
119-1	6'-0"	7'-0"	F-F	23.0	-
119-2	6'-0"	7'-0"	F-F	24.0	-
120-1	3'-0"	7'-0"	F	19.0	-
121-2	3'-0"	7'-0"	F	21.0	-
125-2	3'-0"	7'-0"	F	25.0	-

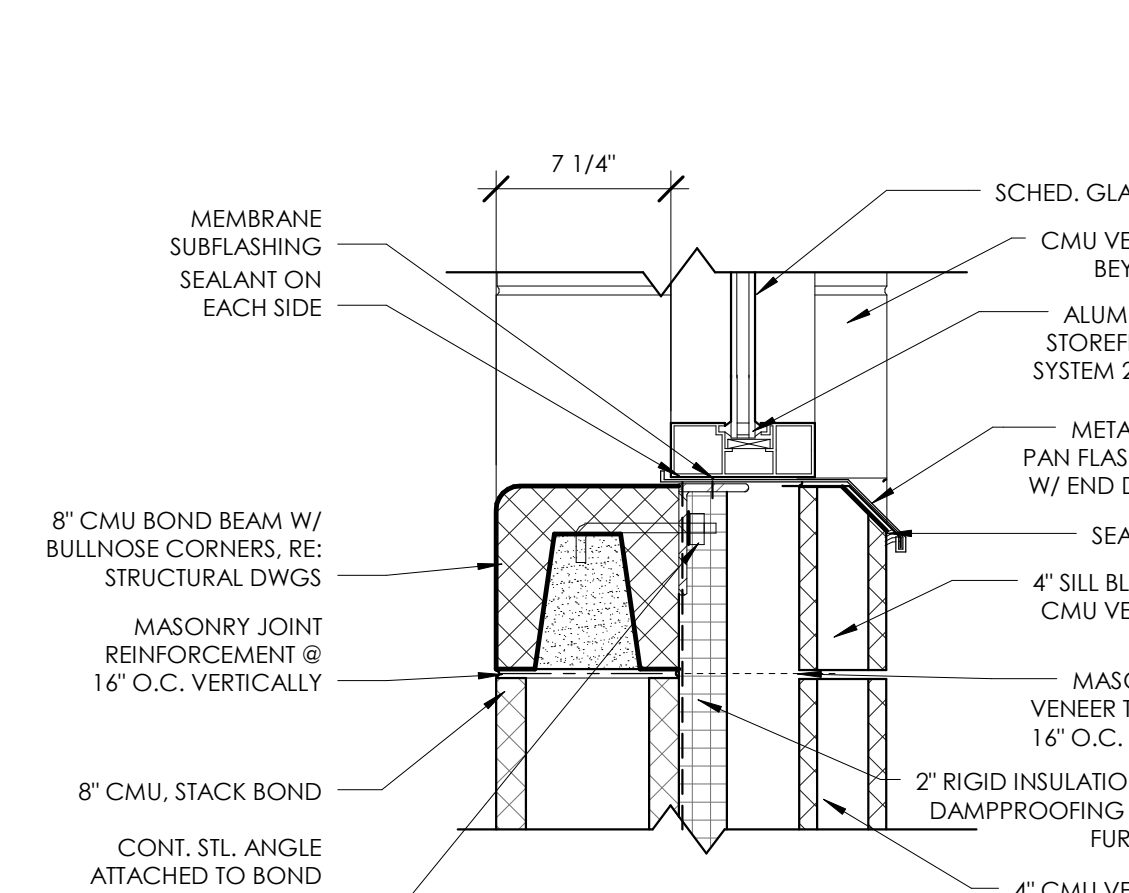
**5 JAMB @ ALUMINUM WINDOW SYSTEM**  
A900 1 1/2" = 1'-0"



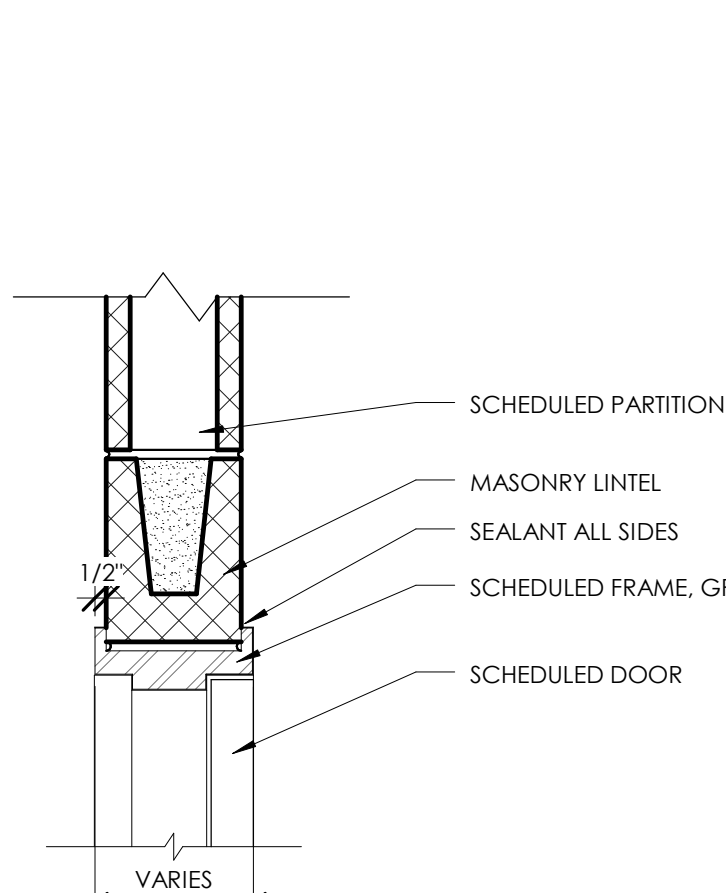
**4 HEAD @ ALUMINUM WINDOW SYSTEM**  
A900 1 1/2" = 1'-0"



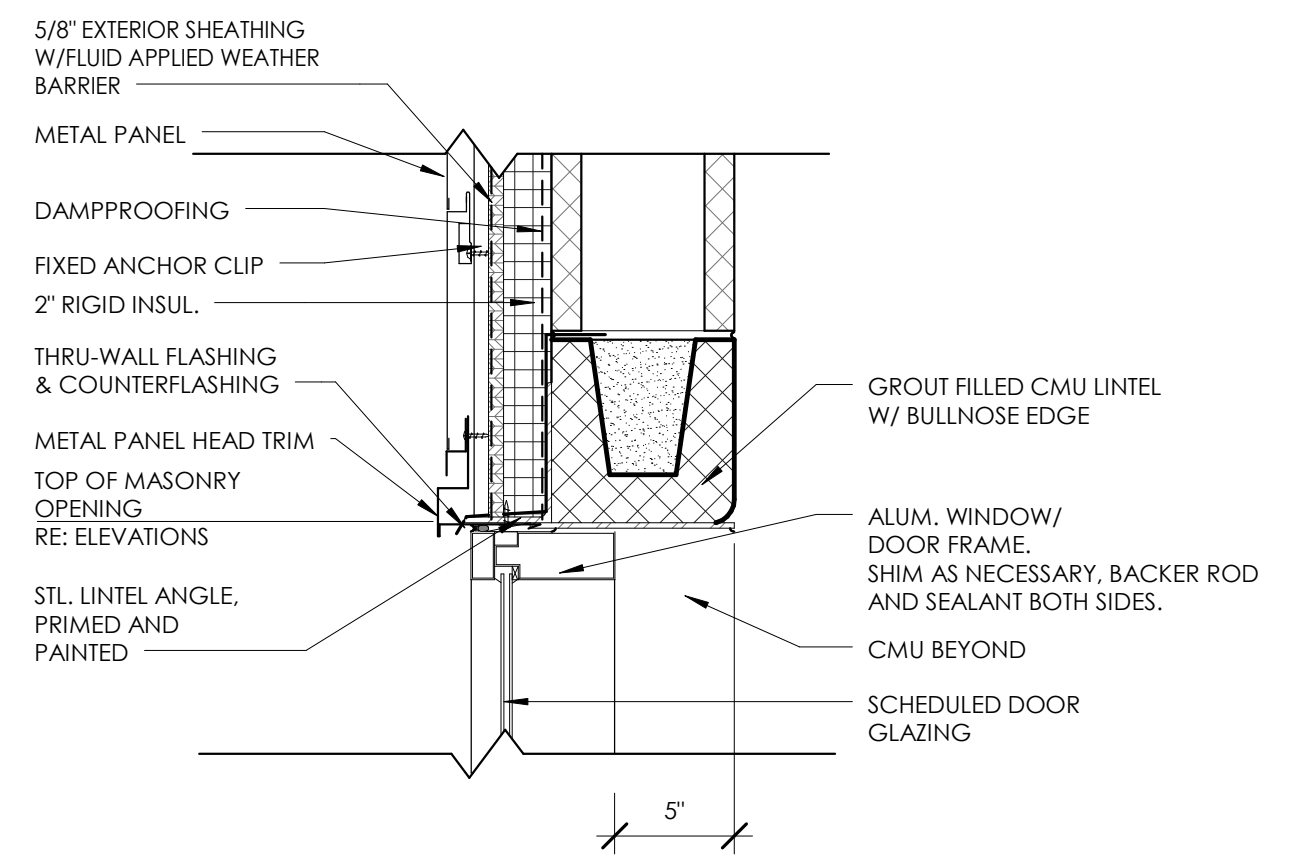
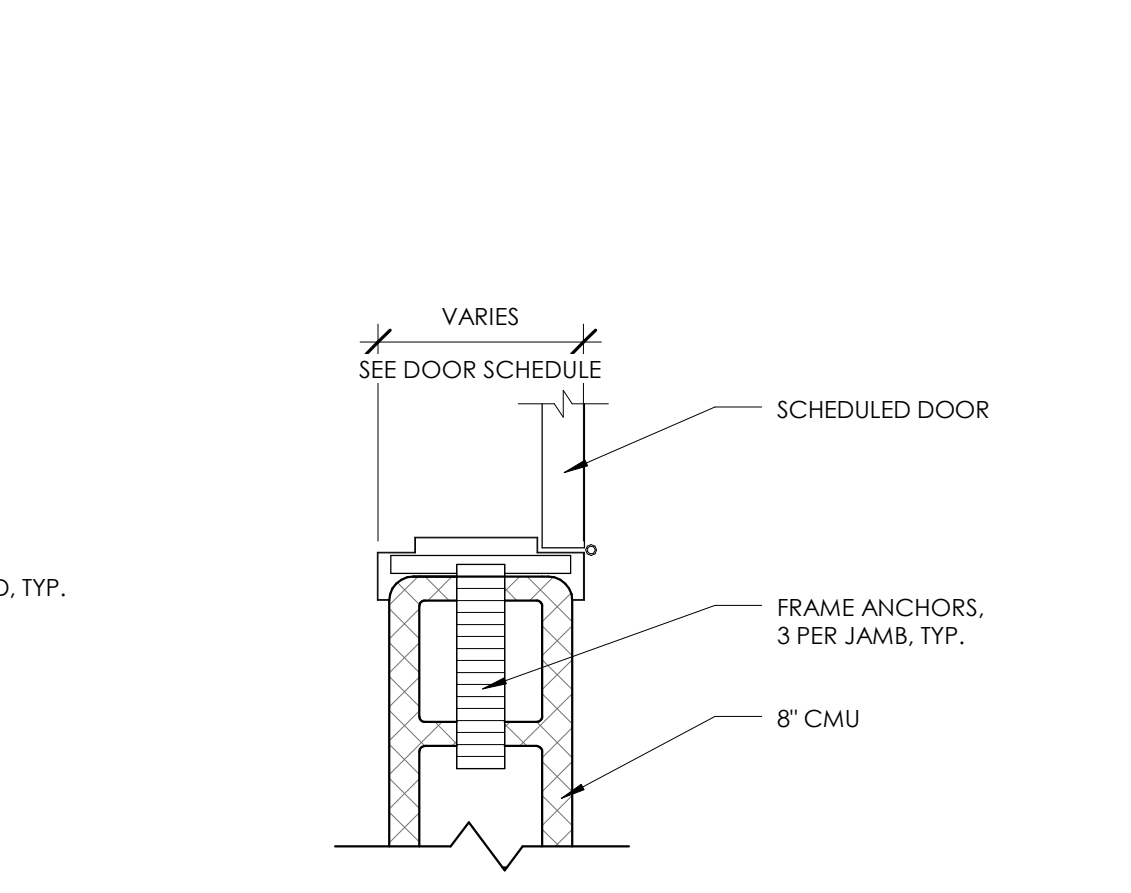
**3 SILL @ ALUMINUM WINDOW SYSTEM**  
A900 1 1/2" = 1'-0"



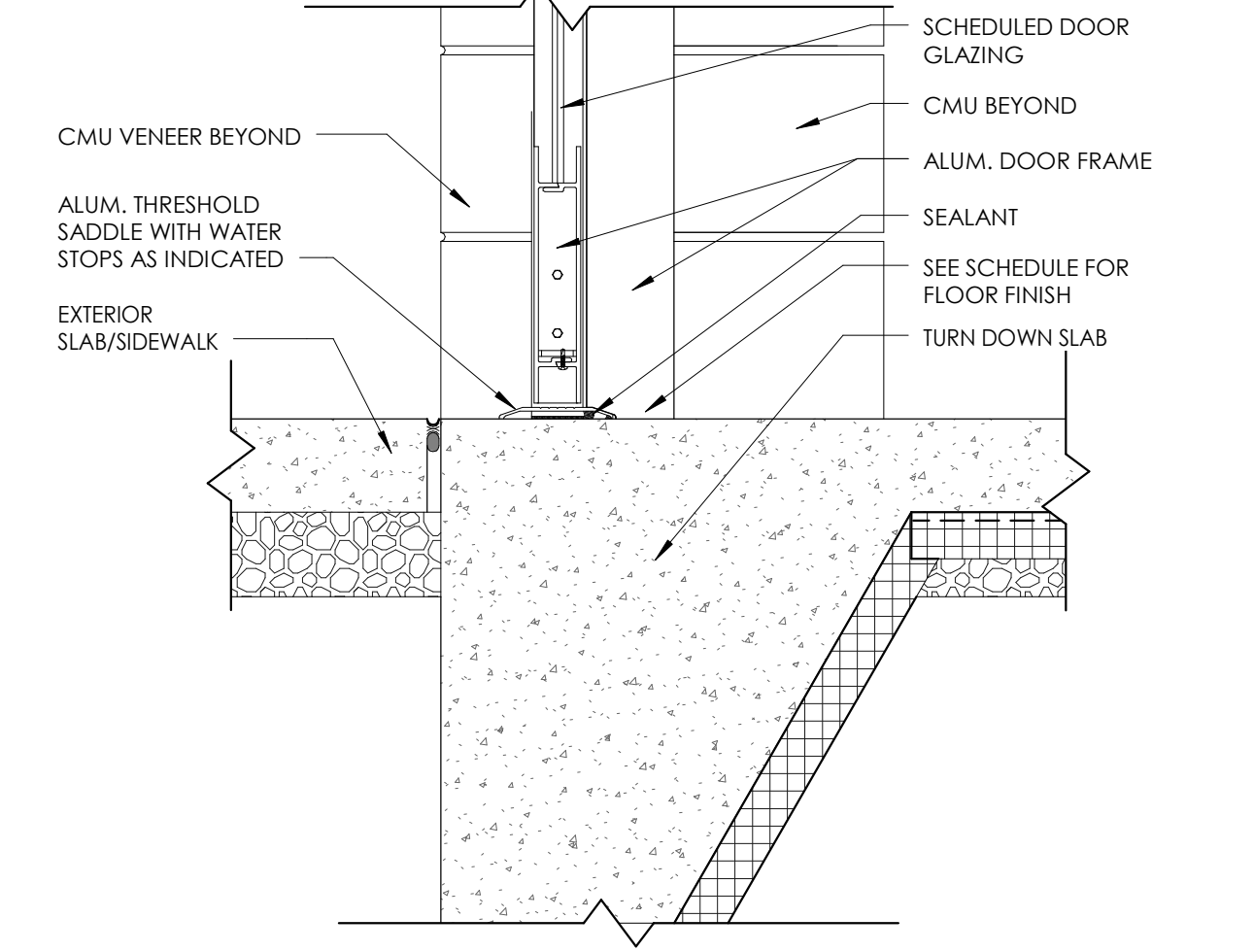
**2 HEAD @ MASONRY WALLS**  
A900 1 1/2" = 1'-0"



**1 JAMB @ MASONRY WALLS**  
A900 1 1/2" = 1'-0"

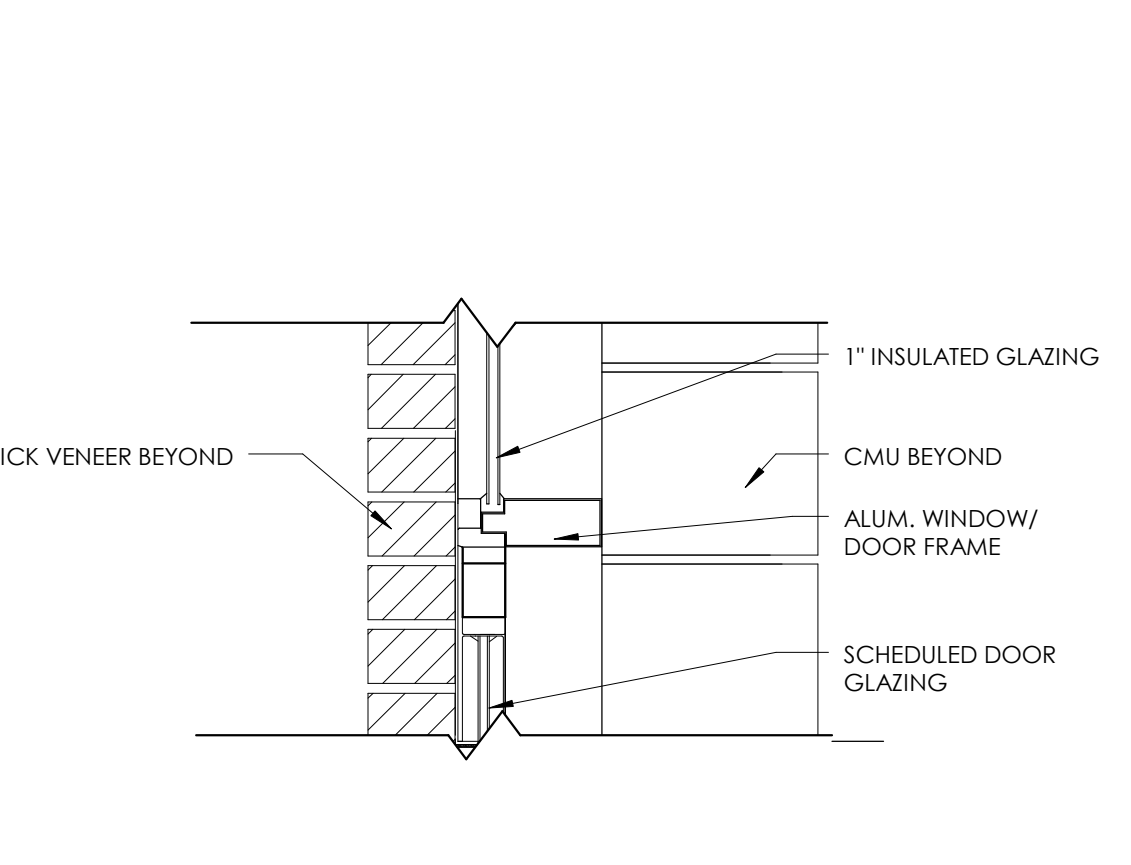


**7 HEAD @ TRANSOM WINDOW AND DOOR**  
A900 1 1/2" = 1'-0"



**6 SILL @ DOOR**  
A900 1 1/2" = 1'-0"

**8 HEAD @ TRANSOM WINDOW AND DOOR**  
A900 1 1/2" = 1'-0"

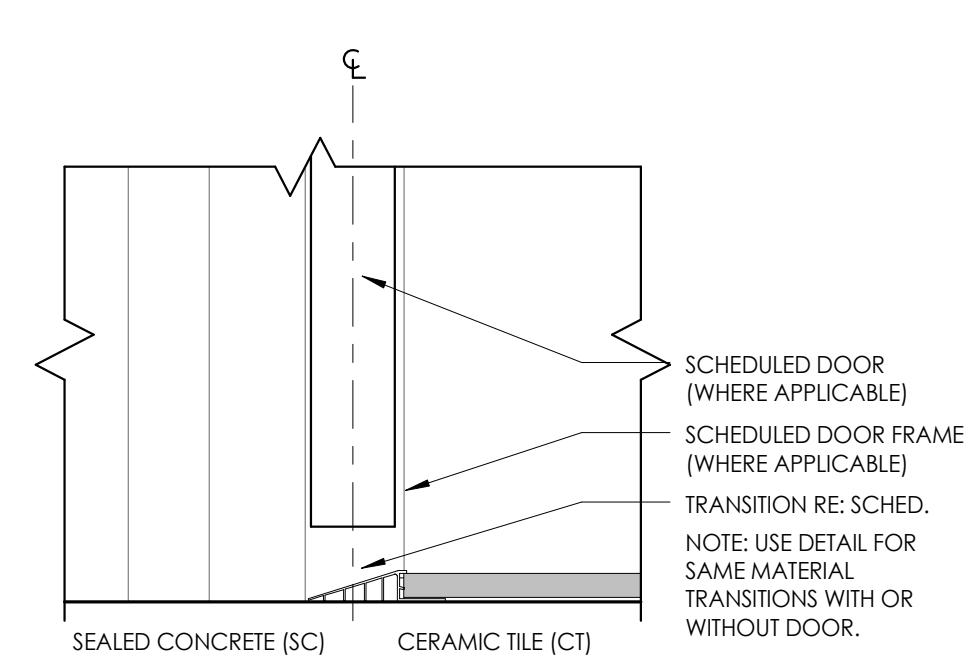




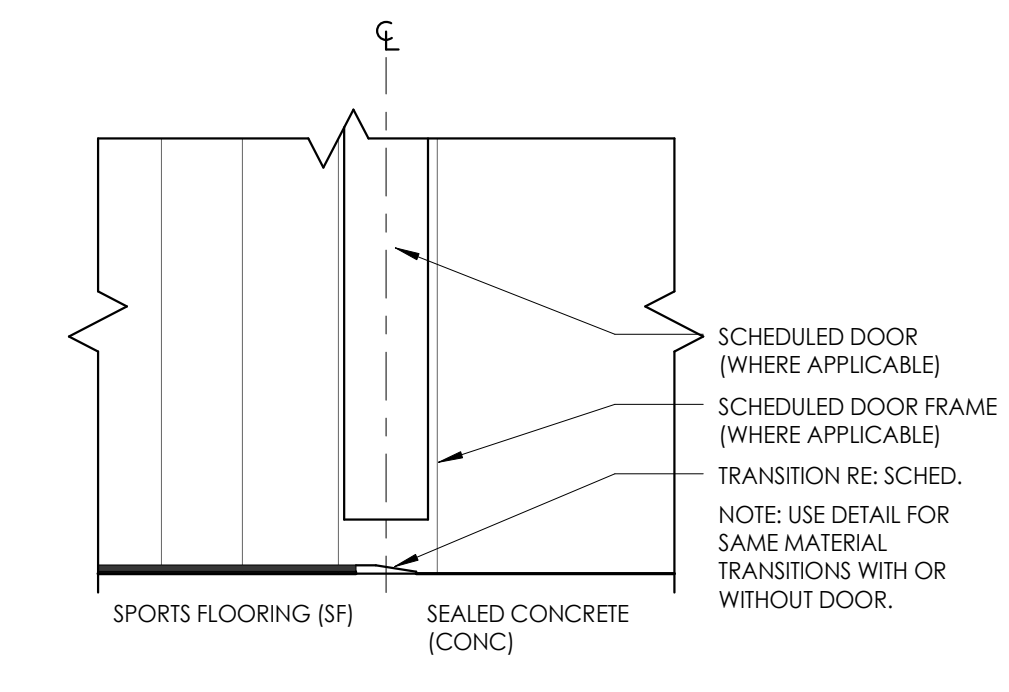




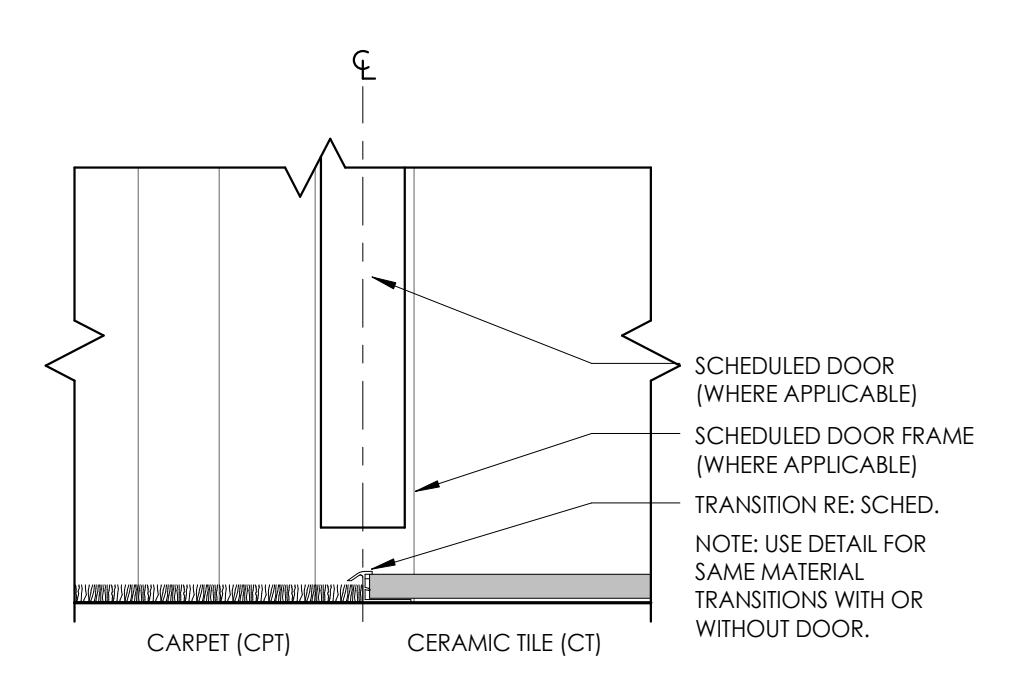
FINISHES LIST						
FINISH CODE	MANUFACTURER	STYLE/PATTERN	COLOR	DIMENSION	ADDITIONAL REQUIREMENTS	REMARKS
<b>ACOUSTIC CEILING TILE</b>						
ACT-1	Armstrong	Ultima Beveled Tegular 1911	White	24" x 24" x 3/4"	.70 NRC, 35 CAC, Class A Fire Rating, .90 Light Reflectance, Mold & Mildew resistant, sag resistant, washable	Prelude 15/16" suspension system (white)
ACT-2	Armstrong	Fine Fissured Tegular High NRC 1758	White	24" x 24" x 7/8"	.75 NRC, 35 CAC, 170 Articulation Class, Class A Fire Rating, .86 Light Reflectance	Prelude XL Suspension System (white)
ACT-3	Armstrong	Kitchen Zone Square Lay in 673	White	24" x 24" x 5/8"	33 CAC, Class A Fire Rating, .89 Light Reflectance, mold & mildew resistance, sag resistant, washable	15/16" Prelude suspension system
<b>CARPET</b>						
CPT-1	Shaw Contract Group	Reverse tile (or similar)	TBD	24" x 24"	Multi-level pattern loop, eco solution Q nylon, 100% solution dyed, Class I radiant panel testing	
<b>CERAMIC TILE</b>						
CT-1	American Olean	Inlusion	TBD	12" x 12"	Colorway to be selected by architect during submittals	Floor Tile
CT-2	American Olean	Inlusion	TBD	12" x 24"	Colorway to be selected by architect during submittals	Wall Tile
CT-3	American Olean	Inlusion	TBD	2" x 24"	Colorway to be selected by architect during submittals	Accent Wall Tile
CT-4	American Olean	Inlusion	TBD	1" x 2" mosaic	Colorway to be selected by architect during submittals	Floor Tile - Showers
CT-5	American Olean	Inlusion	TBD	6" x 24"	Colorway to be selected by architect during submittals	Wall Tile
<b>EPOXY PAINT</b>						
EPT-1	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Epoxy Finish, U.N.O.
<b>EXPANSION JOINT COVER</b>						
EJC-1	Construction Specialties	PC-200	TBD	5 1/4" W	For 2" expansion joint, floor to floor	Refer to 1/1200 for location
EJC-2	Construction Specialties	PCW-200	TBD	5 1/4" W	For 2" expansion joint, wall to floor	Refer to 1/1200 & A200A plans for locations.
EJC-3	Construction Specialties	PC-___	TBD	TBD	For 2" expansion joint, floor to floor. Size of cover to be determined & selected during submittal/ construction process	Refer to 1/1200 & A200A plans for locations.
<b>GROUT</b>						
GR-1	TBD	Epoxy Grout	TBD		Colorway to be selected by architect during submittals	sanded floor grout
GR-2	TBD	Epoxy Grout	TBD		Colorway to be selected by architect during submittals	unsanded wall grout
<b>PAINT</b>						
PT-1	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-2	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-3	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-4	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-5	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-6	Sherwin Williams	N/A	TBD	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-7	Sherwin Williams	N/A	TBD	N/A	For open structure, colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
PT-8	Sherwin Williams	N/A	SW7007 Ceiling Bright White	N/A	Colorway to be selected by architect during submittals	Eggshell Finish, U.N.O.
<b>PLASTIC LAMINATE</b>						
LAM-1	Wilsonart	N/A	Pallades Oak 7937-38			Toilet Rooms
LAM-2	Wilsonart	N/A	TBD		To be selected by architect during submittals	Reception Desk
<b>RESILIENT BASE</b>						
RB-1	Johrsonite	Traditional Cove Base	TBD	4"	Colorway to be selected by architect during submittals	Continuous Roll
<b>SOLID SURFACE MATERIAL</b>						
SSM-1	Corian	N/A	Cottage Lane	N/A		Toilet Rooms
SSM-2	Corian	N/A	Concrete	N/A		Reception Desk
<b>SPORTS FLOORING</b>						
SF-1	Gerflor	Taralex Sport M Plus- Uni	TBD	4'-11" roll width	Colorway to be selected by architect during submittals	Double Density CXP HD Foam Backing
<b>STAINED CONCRETE</b>						
SC-1	Scofield	Formula One Lithium Densifier MP	Soft Gray G388	N/A	N/A	Refer to manufacturer's installation instructions
<b>TRANSITION STRIP</b>						
TS-1	Schluter Systems	RENO-1K	TBD			Transition from CPT to Ceramic Tile
TS-2	Schluter Systems	RENO-RAMP	TBD	2 1/2" W x 3/8"H	Centerline of transition strip shall align with centerline of door	Transition from SC to Ceramic Tile
TS-3	Johrsonite	Wheeled Traffic Transition CTA-XX-P	TBD	2 1/2" W	3/8" material to subfloor	Transition from SF to SC
<b>TRIM PIECE</b>						
TRM-1	Schluter Systems	Jolly	Brushed Chrome Anodized Aluminum			To be used on all outside corners of ceramic tile, as well as top cap of ceramic tile in toilet rooms where indicated, U.N.O.
TRM-2	Schluter Systems	Dilex-HKW	Classic Grey			To be installed where ceramic wall tile meets floor tile. See finish plan for specific room locations.



3 TS DETAIL - TILE TO CONC  
3" = 1'-0"



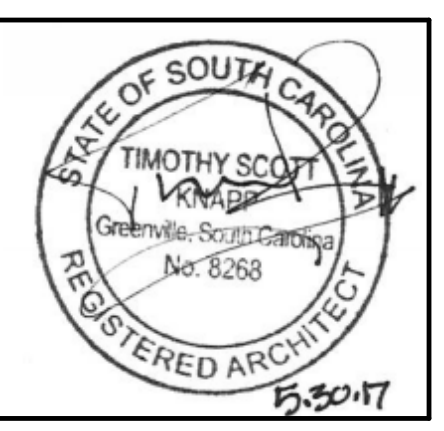
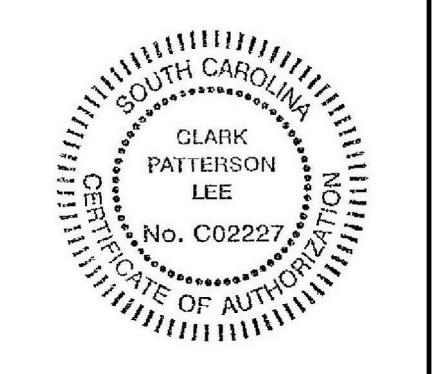
2 TS DETAIL - SHEET TO CONC  
3" = 1'-0"



1 TS DETAIL - CPT TO TILE  
3" = 1'-0"

**Clark Patterson Lee**  
 ARCHITECTURE | ENGINEERING | PLANNING  
 6302 Fairview Rd., Suite 102  
 Charlotte, North Carolina, 28210  
 Tel: (800) 274-9000  
 Fax: (704) 331-0402  
 www.clarkpatterson.com

NO.	DATE	BY	CHKD	DESCRIPTION



COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	CLA	RG
SCALE	3" = 1'-0"	
SHEET TITLE		
FINISH SPECIFICATIONS		

PROJECT NUMBER  
13674.00

**CC**  
1900

DRAWING NUMBER

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### HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AA	AUTOMATIC AIR DAMPER		CONNECTION - TOP		DUCT SECTION - SUPPLY		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
ACC	AIR-COOLED CONDENSING UNIT		CONNECTION - BOTTOM		DUCT SECTION - RETURN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
AD	ACCESS DOOR		DIRECTION OF FLOW		DUCT SECTION - EXHAUST		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
AFF	ABOVE FINISHED FLOOR		REDUCER		DUCT SECTION - ROUND DUCT IN INCHES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
AHU	AIR HANDLING UNIT		CAP OR PLUG		DUCT SECTION - FLAT OVAL DUCT IN INCHES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
BBD	BOILER BLOW DOWN		ELBOW DOWN		ACOUSTIC THERMAL LINING		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
BD	BACKDRAFT DAMPER		ELBOW UP		FLEXIBLE DUCTWORK		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CA	COMBUSTION AIR		TEE OUTLET - UP		FLEXIBLE CONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CD	COOLING COIL CONDENSATE DRAIN		TEE OUTLET - DOWN		FIRE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CFM	CUBIC FEET PER MINUTE		UNION		SMOKE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CHWR	CHILLED WATER RETURN		GATE VALVE		COMBINATION FIRE AND SMOKE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CHWS	CHILLED WATER SUPPLY		BALL VALVE		VOLUME DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CR	CONDENSER WATER RETURN		CHECK VALVE		DAMPER CONTROL, PARALLEL BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CW	CONDENSER WATER SUPPLY		BALANCING VALVE		DAMPER CONTROL, OPPOSED BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
CS	DOMESTIC COLD WATER		STRAINER		GLOBE VALVE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
D	DRAIN		STRAINER WITH BLOW-DOWN		AUTOMATIC AIR DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
(E)	EXISTING		BUTTERFLY VALVE		DAMPER CONTROL, PARALLEL BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
EA	EXHAUST AIR		BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY		DAMPER CONTROL, OPPOSED BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
EC	ELECTRICAL CONTRACTOR		BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR		GLOBE VALVE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
EF	EXHAUST FAN		CHECK VALVE		AUTOMATIC AIR DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
ERHC	ELECTRIC REHEAT COIL		FAN-COIL UNIT		GAS COCK, PLUG VALVE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
ETR	EXISTING TO REMAIN		FEET PER MINUTE		BACK DRAFT DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
EUH	ELECTRIC UNIT HEATER		FIN-TUBE		GENERAL CONTRACTOR		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
F&T	FLOAT AND THERMOSTATIC TRAP		LOUVERED DOOR W/ SQ. FT. OF FREE AREA		GLYCOL RETURN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
FCU	FAN-COIL UNIT		AIR VENT - MANUAL		GLYCOL SUPPLY		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
FPM	FEET PER MINUTE		AIR VENT - AUTOMATIC		HVAC CONTRACTOR		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
FT	FIN-TUBE		FLANGE		HEATING HOT WATER RETURN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
GC	GENERAL CONTRACTOR		CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY		HEATING HOT WATER SUPPLY		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
GR	GLYCOL RETURN		CONTROL VALVE, ELECTRIC 3-WAY		HEAT PUMP		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
GS	GLYCOL SUPPLY		CONTROL VALVE, PNEUMATIC 2-WAY		HIGH PRESSURE CONDENSATE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
HC	HVAC CONTRACTOR		CONTROL VALVE, PNEUMATIC 3-WAY		HIGH PRESSURE STEAM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
HHWR	HEATING HOT WATER RETURN		MULTI-BLADE AIR EXTRACTOR		LINEAR FOOTAGE OF FIN-TUBE RADIATION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
HHWS	HEATING HOT WATER SUPPLY		TURNING VANES		LOW PRESSURE CONDENSATE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
Hp	HEAT PUMP		EXISTING WORK TO BE REMOVED (HATCHED)		LOW PRESSURE STEAM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
HPC	HIGH PRESSURE CONDENSATE		POINT OF CONNECTION		LONG RADIUS 90° ELBOW R/W=1.5		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
HPS	HIGH PRESSURE STEAM		POINT OF DISCONNECTION		LONG RADIUS 45° ELBOW R/W=1.5		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		FILTER		LONG RADIUS 90° ELBOW WITH TURNING VANES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
LPC	LOW PRESSURE CONDENSATE		TRANSITION SQUARE TO ROUND		90° ELBOW WITH TURNING VANES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
LPG	LIQUEFIED PROPANE GAS		HUMIDIFIER DISPERSION TUBE		90° VERTICAL SPLIT OFF (PLAN VIEW)		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
LPS	LOW PRESSURE STEAM		RISE IN DUCT		DUCT TURNING UP OR DOWN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MBH	1,000 BTU/HR		DROP IN DUCT		AIR TERMINAL UNIT-DUCTWORK		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MC	MECHANICAL CONTRACTOR		WELL		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MPC	MEDIUM PRESSURE CONDENSATE		ROUND CEILING DIFFUSER		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MPS	MEDIUM PRESSURE STEAM		SQUARE OR RECTANGULAR CEILING GRILLE		MAX = MAXIMUM CFM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MRD	MONOFLO FITTING DOWN - HHWR		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		MIN = MINIMUM CFM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MSD	MONOFLO FITTING DOWN - HHWS		PRESSURE GAUGE		CPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
MUW	MAKE-UP WATER		PRESSURE GAUGE WITH 1/4" NEEDLE VALVE		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
NC	NORMALLY CLOSED		PNEUMATIC (CONTROL) TUBING		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
NG	NATURAL GAS		BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
NO	NORMALLY OPEN		PIPING		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
NTS	NOT TO SCALE		PIPING BELOW GRADE		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
OA	OUTSIDE AIR		BASE MOUNTED PUMP		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
PC	PLUMBING CONTRACTOR		IN-LINE PUMP		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
PD	PUMP DISCHARGE		AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
PHWR	PRIMARY HEATING HOT WATER RETURN		AIR TERMINAL UNIT WITH REHEAT COIL		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
PHWS	PRIMARY HEATING HOT WATER SUPPLY		AIR TERMINAL UNIT		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RA	RETURN AIR		AIR FLOW		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RD	REFRIGERANT DISCHARGE		ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RHC	HOT WATER REHEAT COIL		ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RL	REFRIGERANT LIQUID PIPE		ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK		U - UNIT TYPE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RS	REFRIGERANT SUCTION PIPE		ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK		GPM = GALLONS PER MIN		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RTU	ROOFTOP UNIT		WALL TO WALL FIN TUBE ENCLOSURE		MAX = MAXIMUM GPM		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
RV	ROOF VENT						
SA	SUPPLY AIR						
SHWR	SECONDARY HEATING HOT WATER RETURN						
SHWS	SECONDARY HEATING HOT WATER SUPPLY						
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)						
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)						
TC	TEMPERATURE CONTROLS CONTRACTOR						
UH	UNIT HEATER						
UV	UNIT VENTILATOR						
V	VENT						
WAHP	WATER-TO-AIR HEAT PUMP						
WWHP	WATER-TO-WATER HEAT PUMP						

#### SYMBOLS GENERAL NOTES:

- VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

MECHANICAL DESIGN CRITERIA		
CONDITION	CRITERIA	COMMENTS
SUMMER (COOLING): OUTSIDE AIR DESIGN	95 °F DB/78°F WB	DERIVED FROM ASHRAE 90.1 FOR CHARLESTON, SC
WINTER (HEATING): OUTSIDE AIR DESIGN	25 °F DB	DERIVED FROM ASHRAE 90.1 FOR CHARLESTON, SC
INDOOR DESIGN: OCCUPIED AREAS	75 °F DB	RELATIVE HUMIDITY (CONTROLLED): 50%

SEISMIC DESIGN CRITERIA FOR NON-STRUCTURAL COMPONENTS	
SEISMIC DESIGN CATEGORY	D
BUILDING RISK CATEGORY	III
MECHANICAL COMPONENT IMPORTANCE FACTOR (IP)	1.0
SEISMIC DESIGN REQUIREMENTS	SEE NOTE 1

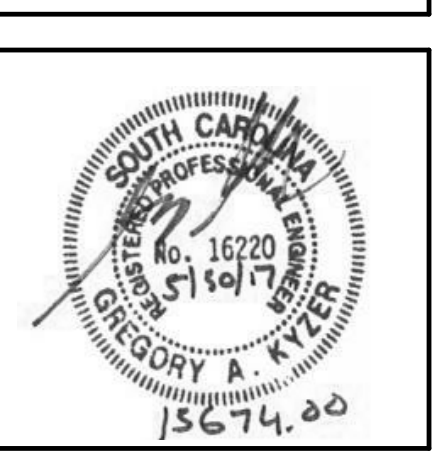
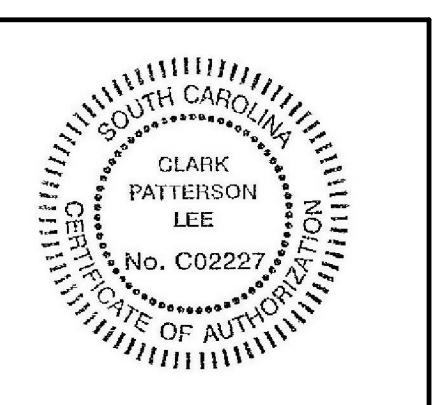
- NOTES:
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL HVAC COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ALL RESTRAINTS TO BE INSTALLED PER CODE REQUIREMENTS.

#### MECHANICAL GENERAL NOTES:

- ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.
- ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PATCH AND FINISH ALL DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS. PATCHING AND FINISHING SHALL MATCH CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE UNTELS PER UNTEL SCHEDULE.
- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND FIRE PROTECTION CODES WITH SOUTH CAROLINA MODIFICATIONS AND THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
- RADIUSED ELBOWS SHALL BE USED IN ALL RETURN AND EXHAUST DUCTWORK WHERE SPACE PERMITS. MITERED ELBOWS WITH TURNING VANES ARE PERMITTED WHERE SHOWN ON PLAN IF ACCESS DOORS FOR CLEANING ARE PROVIDED AT TURNING VANES.
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS INCLUDING LIGHT FIXTURES, SMOKE DETECTORS, SPRINKLER HEADS, ETC.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND HUMIDITY SENSORS AT 48" (CENTERLINE) ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE AND DOOR SWINGS.
- ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- ALL DUCT SIZES SHOWN AS INSIDE CLEAR DIMENSIONS.
- DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- ACCESS PANELS IN DUCTWORK AND CEILING SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. PROVIDE DUCT ACCESS DOORS ADJACENT TO ALL SQUARE ELBOWS WITH TURNING VANES FOR CLEANING.
- ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH PIECE OF EQUIPMENT INCLUDING FANS, AIR HANDLING UNITS, TERMINAL UNITS AND FAN COIL UNITS, ETC.
- RUNOUT DUCTS TO DIFFUSERS & GRILLES SHALL MATCH THE SCHEDULED DEVICE NECK SIZE UNLESS NOTED OTHERWISE. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEXIBLE DUCTS TO BE CONNECTED.
- MAINTAIN CLEARANCE OF A MINIMUM OF 4" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS. TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- UNLESS OTHERWISE NOTED, ALL DRAINS FOR EQUIPMENT AND VALVES SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.
- A MAXIMUM OF LENGTH 5'-0" FLEXIBLE DUCTWORK ALLOWED ON ANY RUNOUT TO ANY AIR DEVICE. FLEXIBLE DUCTWORK IS PROHIBITED FOR RETURN AND EXHAUST DUCTWORK.
- ALL AIR TERMINAL UNIT RUNOUT SIZES SHALL BE AS INDICATED. TERMINAL UNIT OUTLET LOW PRESSURE DUCT SHALL BE TERMINAL BOX OUTLET SIZE UNLESS OTHERWISE NOTED.
- ALL SUPPLY AND RETURN GRILLES SHALL BE A MINIMUM OF 36" AWAY FROM SMOKE DETECTOR LOCATIONS AS REQUIRED BY CODE.
- PENETRATIONS OF RATED WALL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. REFER TO ARCHITECTURAL SERIES DRAWINGS FOR WALL RATINGS.
- ALL FLEXIBLE DUCT CONNECTIONS DOWNSTREAM OF VAV BOXES TO HAVE MANUFACTURED SPIN-IN FITTINGS WITH VOLUME DAMPER AND MANUAL LOCKING QUADRANT WITH INSULATION STAND-OFF BRACKET. SECURE FLEXIBLE DUCT TO FITTING WITH STAINLESS STEEL BAND AND WORM GEAR OPERATED CLAMP.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- DUCTWORK AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH THE BUILDING STRUCTURE.
- PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT.
- CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF THE PROJECT.
- INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
- REPLACE FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.
- TERMINATE DUCT 18" MINIMUM BEYOND CENTERLINE OF OUTLET TO LAST DIFFUSER.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE DELIVERY CLEARANCE REQUIREMENTS OF LARGE EQUIPMENT WITH THE GENERAL CONTRACTOR TO PROVIDE SUFFICIENT ACCESS FROM THE DELIVERY POINT TO THE EQUIPMENT'S FINAL LOCATION.

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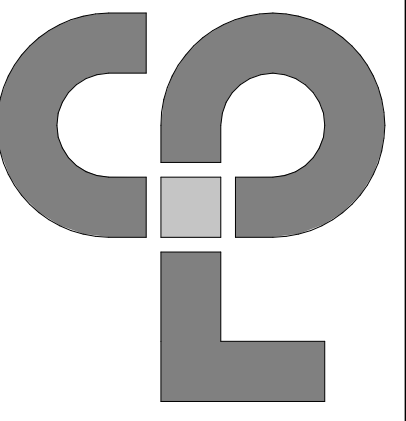
COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	AMT	GAK
SCALE	NOT TO SCALE	
SHEET TITLE	HVAC SYMBOLS LEGEND, NOTES & SYSTEM DIAGRAMS	

PROJECT NUMBER
13674.00
<b>CC</b> <b>H000</b>
DRAWING NUMBER

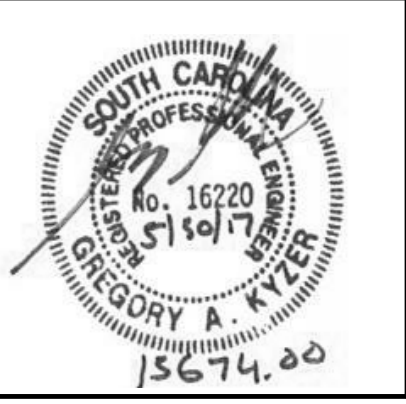
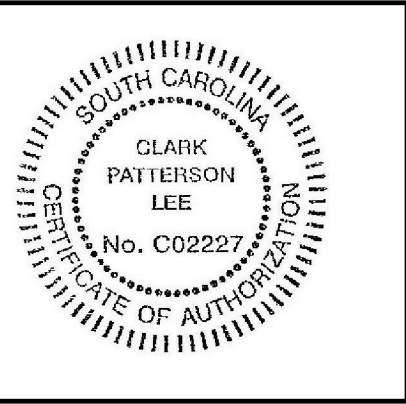
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SCALE	As indicated	
SHEET TITLE		
HVAC - GROUND FLOOR DEMOLITION PLAN		

PROJECT NUMBER	13674.00
<b>CC</b>	<b>H100</b>
DRAWING NUMBER	

**KEY NOTES:**

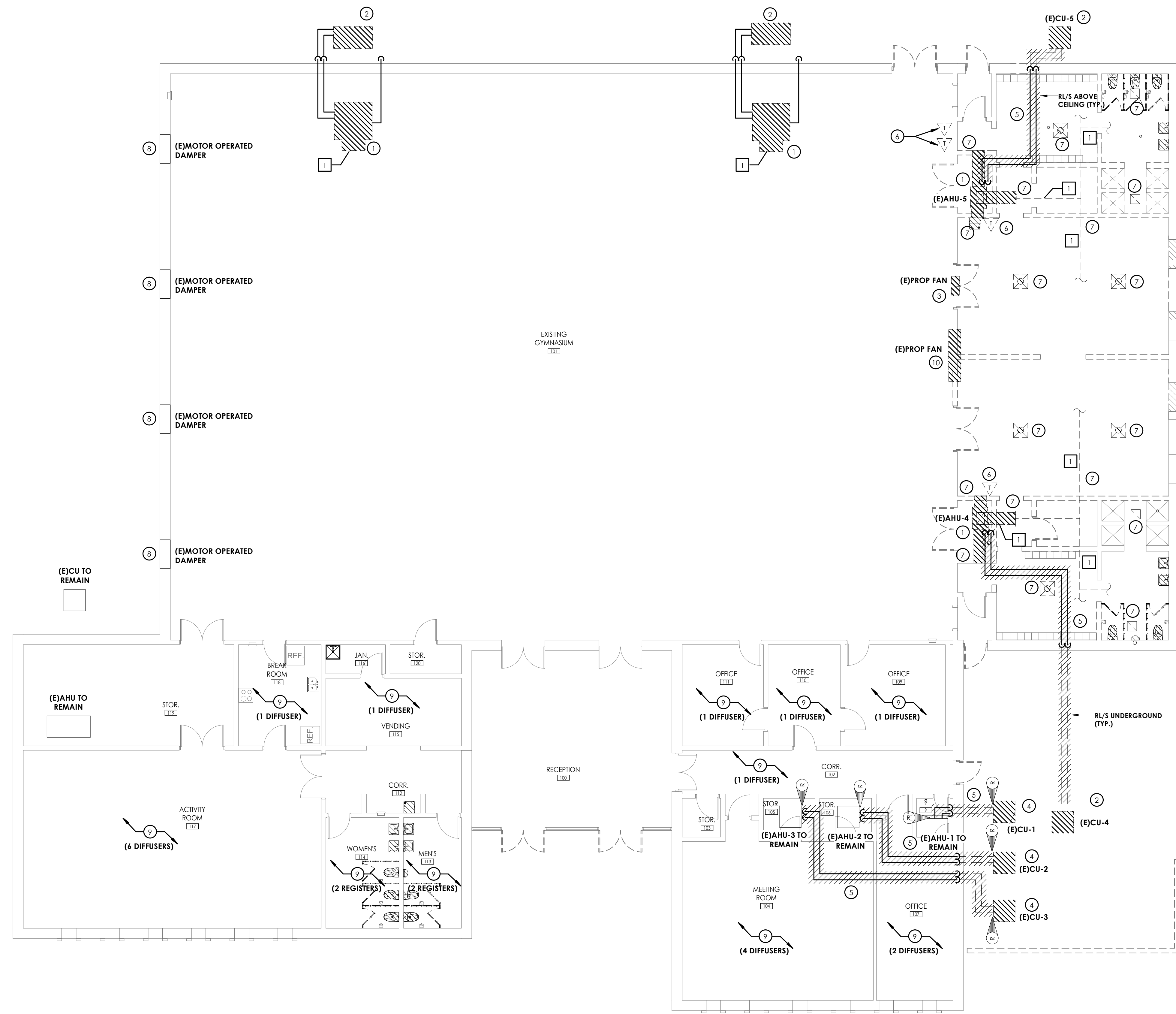
- REMOVE EXISTING AIR-HANDLING UNIT IN ITS ENTIRETY INCLUDING CONTROLS, SUPPORTS, REFRIGERANT PIPING AND CONDENSATE DRAIN LINES. PATCH PIPING PENETRATIONS IN EXTERIOR WALL TO MATCH EXISTING MATERIALS AND FINISHES.
- REMOVE EXISTING CONDENSING UNIT IN ITS ENTIRETY INCLUDING REFRIGERANT PIPING, CONTROL WIRING AND CONCRETE HOUSEKEEPING PAD.
- REMOVE EXISTING WALL-MOUNTED PROPELLER FAN IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS. PATCH OPENING IN WALL TO MATCH EXISTING MATERIALS AND FINISHES.
- REMOVE AND SALVAGE EXISTING CONDENSING UNIT MOUNTED AT GRADE. REMOVE EXISTING CONCRETE HOUSEKEEPING PAD. REFER TO NEW WORK PLANS FOR RE-INSTALLATION LOCATION OF SALVAGED UNIT.
- REMOVE EXISTING REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS IN ITS ENTIRETY. ABANDON AND CAP ANY PIPING CONCEALED IN CHASES/WALLS SLATED TO REMAIN IN PLACE. REFER TO NEW WORK PLANS FOR NEW REFRIGERANT PIPING ROUTING WHERE OUTDOOR UNITS ARE TO BE SALVAGED.
- REMOVE EXISTING WALL-MOUNTED THERMOSTAT AND ASSOCIATED CONTROL WIRING.
- REMOVE ALL EXISTING DUCTWORK IN ITS ENTIRETY INCLUDING MAINS, BRANCH DUCTWORK, AND AIR DEVICES THROUGHOUT LOCKER/FITNESS ROOM AREAS. FOLLOWING DUCTWORK REMOVAL, PATCH OPENINGS IN WALLS THAT ARE REMAINING.
- REMOVE EXISTING MOTOR OPERATED DAMPER IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS.
- REMOVE EXISTING GRILLES, REGISTERS AND RETURNS LOCATED IN EXISTING CEILING SYSTEM. EXISTING DUCTWORK TO REMAIN. AIR DEVICE QUANTITIES HAVE BEEN INDICATED ON PLANS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO START OF WORK.
- REMOVE EXISTING WALL-MOUNTED PROPELLER FAN IN ITS ENTIRETY INCLUDING LOUVER ALL ASSOCIATED COMPONENTS. EXISTING OPENING TO REMAIN FOR REUSE.

**ASBESTOS ABATEMENT KEY NOTES:**

- REMOVE BY ABATEMENT, ASBESTOS CONTAINING INSULATION AND MASTIC ASSOCIATED WITH OVERHEAD DUCTWORK. REFER TO HAZARDOUS MATERIALS SURVEY FOR FURTHER INFORMATION.

**GENERAL ASBESTOS ABATEMENT NOTES:**

- ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF MATERIALS TO BE ABATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS AND TO REVIEW THE ASBESTOS INSPECTION SURVEY INCLUDED IN THE PROJECT MANUAL PRIOR TO SUBMITTING A BID. IF THERE ARE ANY DISCREPANCIES WITH WHAT EXISTS TO WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPORT SAID DISCREPANCIES TO THE ARCHITECT PRIOR TO SUBMITTING A BID. IT IS THE INTENT OF THIS PROJECT IS TO COMPLETELY REMOVE ASBESTOS CONTAINING MATERIALS INDICATED AND TO PROVIDE CLEAN ACM FREE WORK AREA POST ABATEMENT.
- ALL ABATEMENT PROCEDURES TO BE IN ACCORDANCE WITH STANDARDS SET FORTH BY S.C.D.H.E.C., OSHA AND NESHAPS AND ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR IS TO EMPLOY A LICENSED ELECTRICIAN TO PERFORM ALL REQUIRED ELECTRICAL REMOVALS, POWER LOCKOUTS AND HVAC SYSTEM LOCKOUTS AND RESTORE THESE SERVICES UPON COMPLETION OF THE ABATEMENT WORK.
- ELECTRICAL POWER LOCKOUTS SHALL NOT AFFECT PORTIONS OF THE BUILDING THAT NEED TO REMAIN IN USE. THE CONTRACTOR SHALL MAKE PROVISIONS TO REROUTE POWER OR PROVIDE TEMPORARY POWER.
- THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING FINISHES NOT SCHEDULED FOR REMOVAL UNDER THE CONTRACT, PIPING AND EQUIPMENT NOT SCHEDULED FOR REMOVAL UNDER THE CONTRACT. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECTS SATISFACTION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ASBESTOS DUMPSTER WITH THE CONSTRUCTION MANAGER.
- THE CONTRACTOR MAY APPLY FOR PROJECT SPECIFIC VARIANCES. USE OF SUCH VARIANCES ARE SUBJECT TO APPROVAL BY THE ARCHITECT.

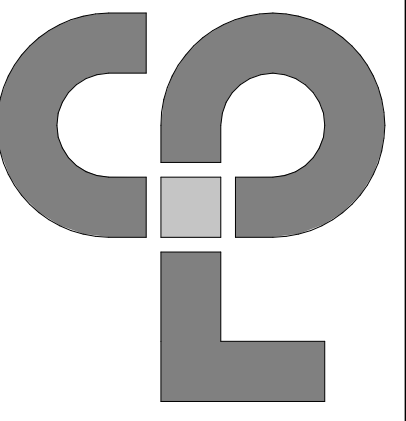


**1 HVAC - GROUND FLOOR DEMOLITION PLAN**  
 H100  
 1/8" = 1'-0"

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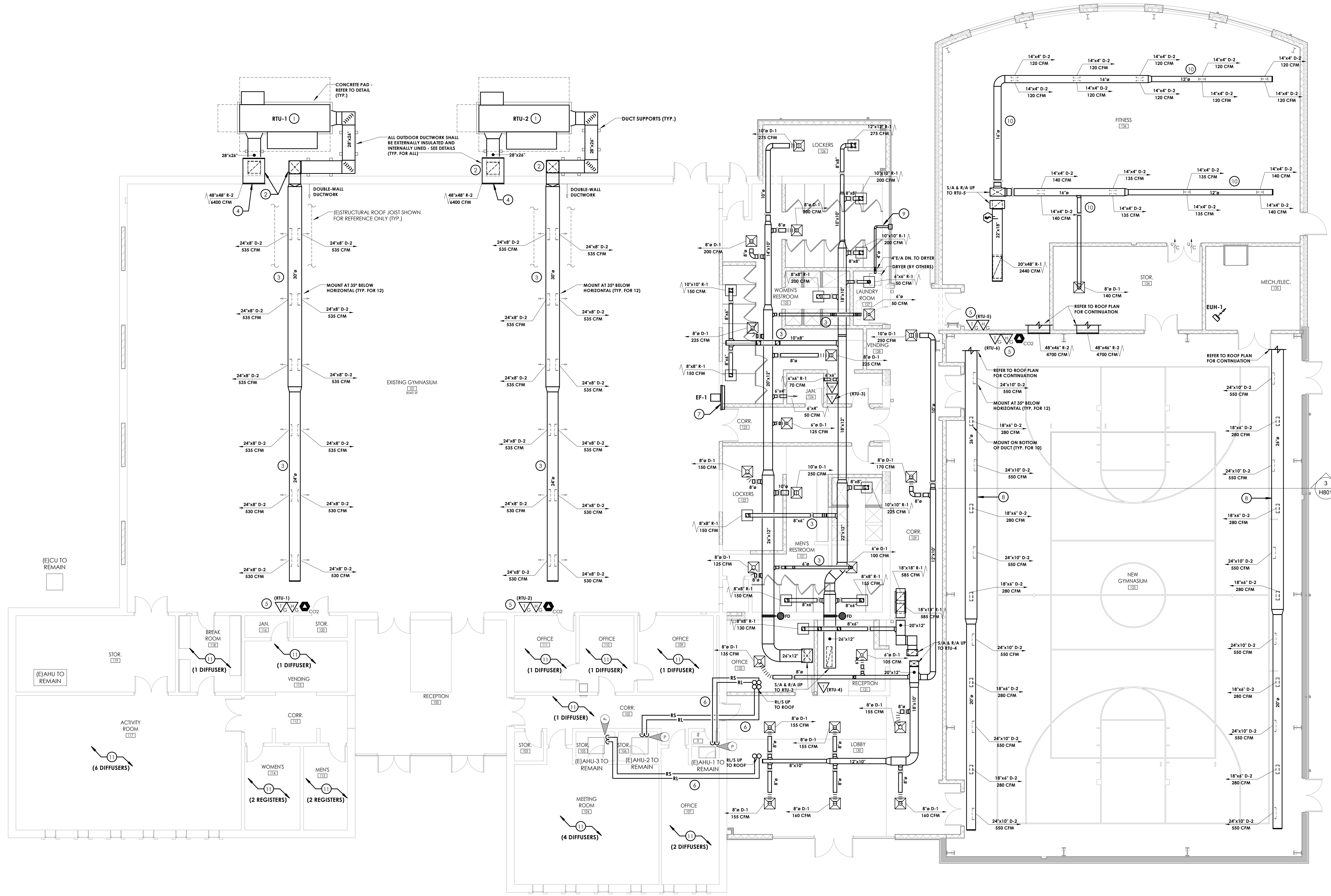




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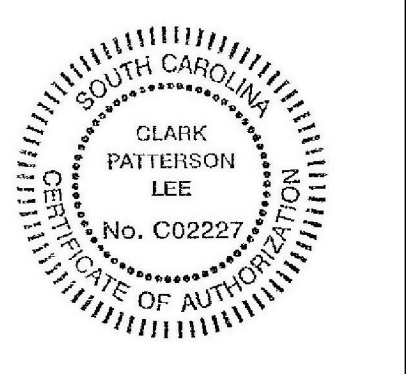
**KEY NOTES:**

- NEW UNIT SHALL BE MOUNTED AT GRADE. PROVIDE CONCRETE HOUSEKEEPING PAD. REFER TO DETAIL.
- SECURE VERTICAL DUCT RUNS TO EXTERIOR WALL. PROVIDE INTERNAL LINING AND EXTERNAL INSULATION ON ALL OUTDOOR SUPPLY AND RETURN DUCTWORK.
- ROUTE DUCT AS HIGH AS POSSIBLE BETWEEN BAYS OF EXISTING STRUCTURAL STEEL TIGHT TO CROSSMEMBERS. COORDINATE DUCT ROUTING WITH ADJACENT SYSTEMS INCLUDING CONDUITS AND LIGHTING FIXTURES.
- RETURN REGISTER TO BE MOUNTED ON WALL APPROXIMATELY 18" A.F.F.
- PROVIDE LOCKABLE WIRE COVER FOR ALL SENSORS RATED FOR GYMNASIUM APPLICATIONS.
- PROVIDE NEW INTERCONNECTING REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS. PIPING TO BE SIZED BASED ON EXISTING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW R-22 REFRIGERANT CHARGE PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEW EXHAUST FAN AND MOTORIZED BACKDRAFT DAMPER MOUNTED IN EXISTING PENETRATION FOLLOWING EXISTING FAN REMOVAL. MODIFY INFLIGHT OPENING AS REQUIRED TO FACILITATE INSTALLATION OF NEW FAN HOUSING. ALL PATCH WORK SHALL MATCH EXISTING MATERIALS AND FINISHES.
- ROUTE DUCTWORK HIGH AND TIGHT TO UNDERSIDE OF TRUSSES. COORDINATE ROUTING WITH BASKETBALL HOOPS AND LIGHTING FIXTURES.
- INSTALL DRYER VENT DUCT IN ACCORDANCE TO DRYER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE DRYER MANUFACTURER'S SIDEWALL VENT CAP.
- ROUTE DUCTS AS HIGH AS POSSIBLE BETWEEN AND THROUGH BAYS OF STRUCTURAL STEEL TIGHT TO CROSSMEMBERS. DUCTWORK ROUTED BELOW STEEL IS NOT ACCEPTABLE. COORDINATE DUCT ROUTING WITH ADJACENT SYSTEMS INCLUDING CONDUITS AND LIGHTING FIXTURES.
- PROVIDE NEW GRILLES, REGISTERS AND RETURNS LOCATED IN EXISTING CEILING SYSTEM. NEW AIR DEVICES TO MATCH EXISTING DEVICE OVERALL DIMENSIONS AND CONNECTION DIMENSIONS. RECONNECT EXISTING DUCTWORK TO NEW AIR DISTRIBUTION DEVICE. AIR DEVICE QUANTITIES HAVE BEEN INDICATED ON PLANS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.



**GROUND FLOOR - HVAC DUCTWORK PLAN**  
1/8" = 1'-0"

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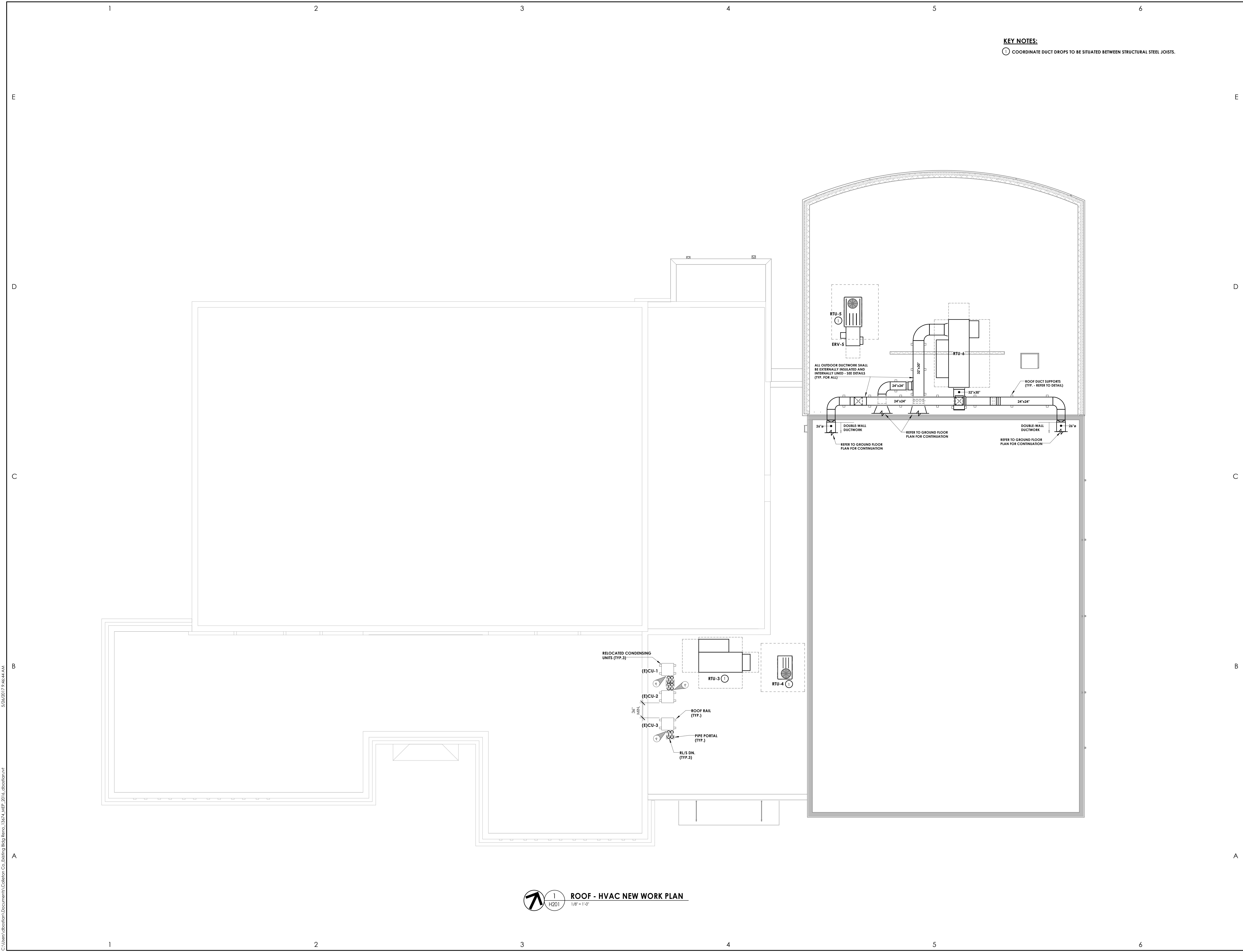
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SHEET TITLE	GROUND FLOOR DUCTWORK PLAN	

PROJECT NUMBER	13674.00
DRAWING NUMBER	CC H200

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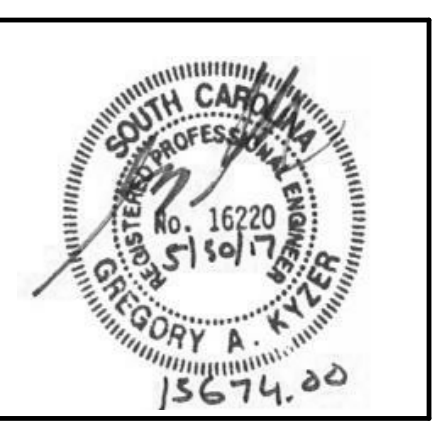
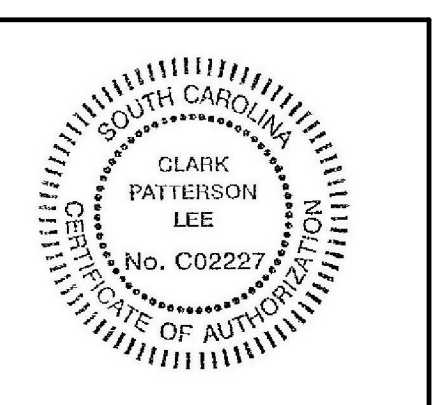




**KEY NOTES:**  
 ① COORDINATE DUCT DROPS TO BE SITUATED BETWEEN STRUCTURAL STEEL JOISTS.

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SHEET TITLE		
HVAC ROOF NEW WORK PLAN		

PROJECT NUMBER  
13674.00

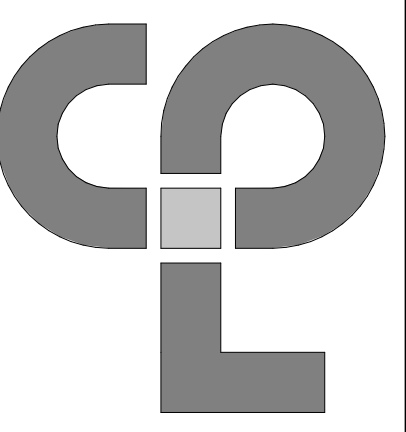
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 H201 **ROOF - HVAC NEW WORK PLAN**  
 1/8" = 1'-0"

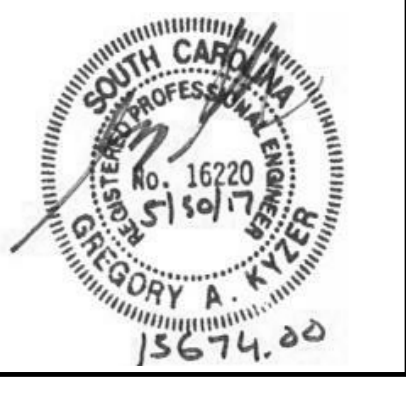
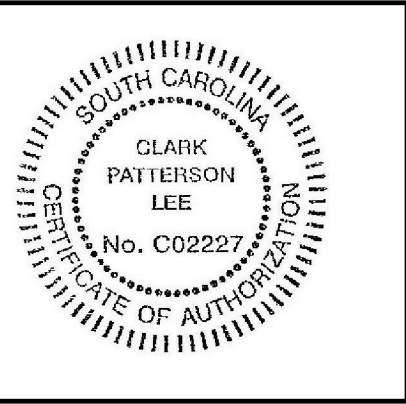
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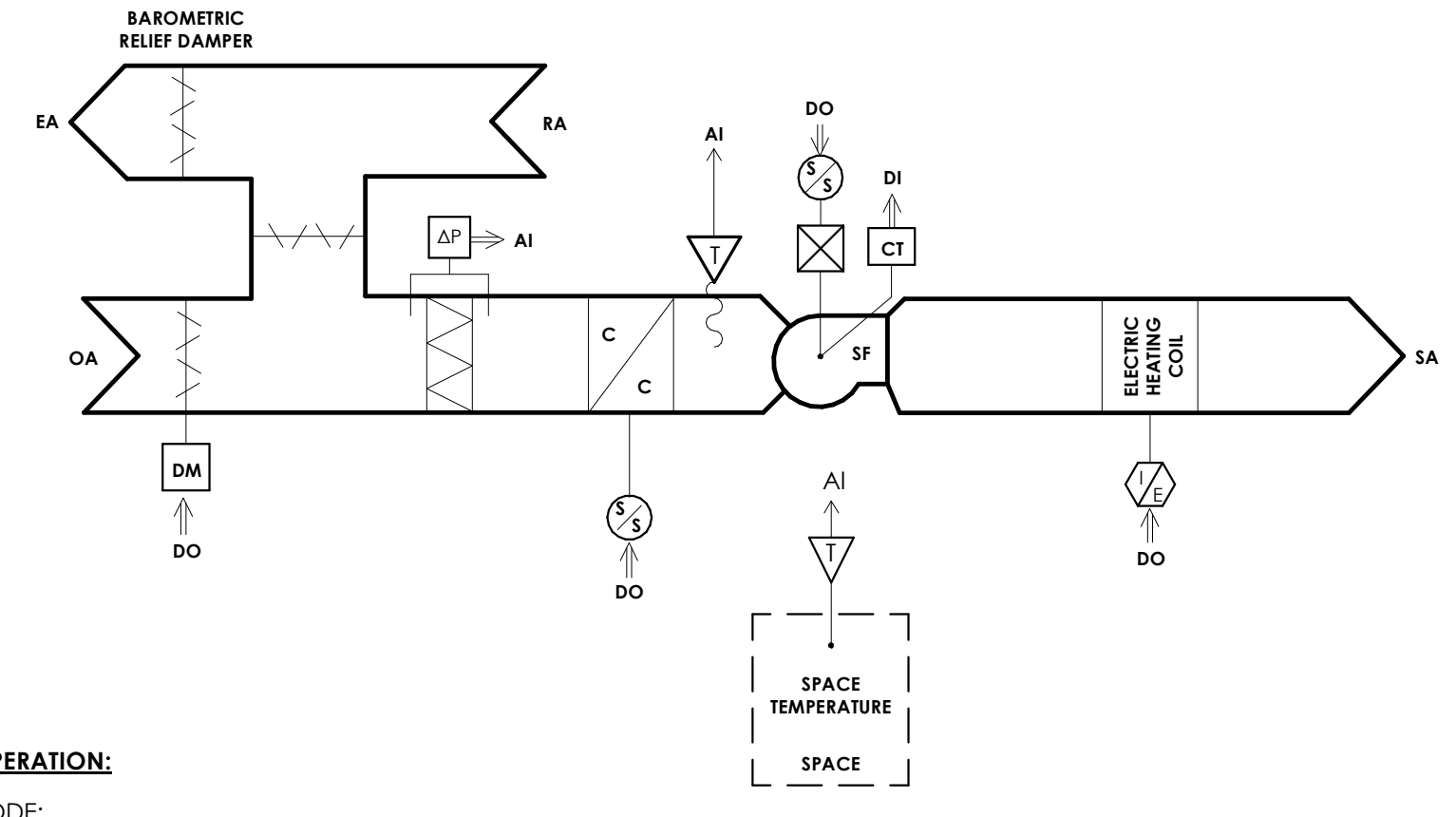
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SHEET TITLE	HVAC CONTROL DIAGRAMS AND SEQUENCES OF OPERATION	

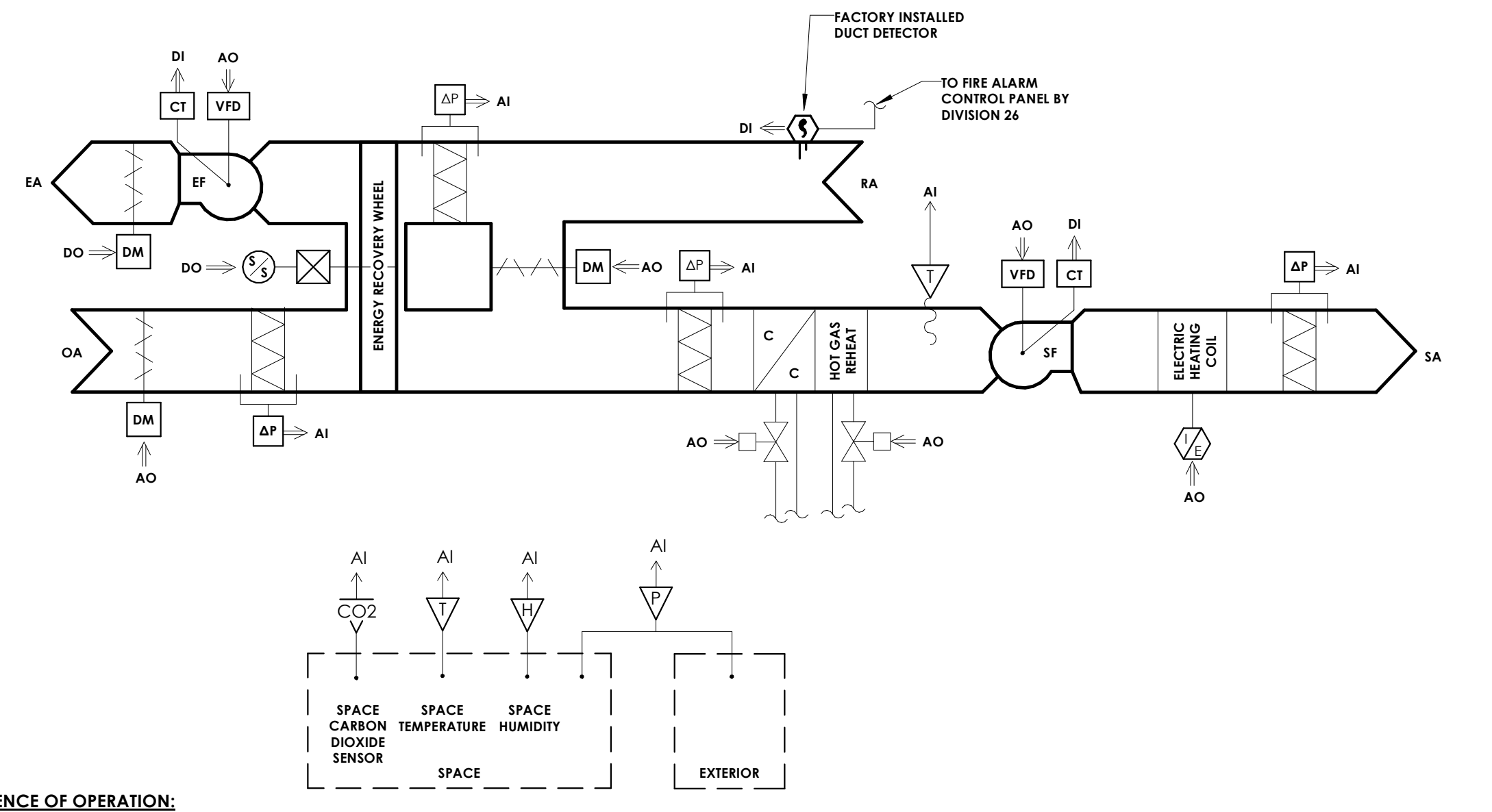
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**SEQUENCE OF OPERATION:**

- OCCUPIED MODE:**
1. THE RTU IS TO BE COMMANDED INTO THE OCCUPIED MODE BY THE UNIT CONTROLLER. TIME OF DAY SCHEDULING IS TO BE BASED UPON DIRECTION FROM THE OWNER.
  2. WHEN COMMANDED INTO THE OCCUPIED MODE THE RTU'S SUPPLY FAN IS TO BE ENERGIZED.
  3. THE OUTSIDE AIR DAMPER IS TO OPEN TO ITS MINIMUM POSITION.
  4. IF THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT OF 75°F (ADJ.), THE RTU REFRIGERATION CIRCUIT IS TO BE ENERGIZED.
  5. WHEN THE SPACE TEMPERATURE FALLS BELOW THE COOLING SETPOINT THE REFRIGERATION CIRCUIT CAN BE DE-ENERGIZED.
  6. UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT OF 70°F (ADJ.), THE ELECTRIC HEAT IS TO ACTIVATE TO MAINTAIN THE HEATING SETPOINT.
  7. ONCE THE HEATING SETPOINT IS SATISFIED, THE ELECTRIC HEAT CAN BE DE-ACTIVATED.
- UNOCCUPIED MODE:**
1. THE RTU OUTSIDE DAMPER IS TO FULLY SHUT.
  2. THE SUPPLY FAN, THE REFRIGERATION CIRCUIT AND THE GAS FURNACE ARE TO ALL BE DE-ACTIVATED.
  3. IF THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED COOLING SETPOINT OF 80°F (ADJ.), THE REFRIGERATION CIRCUIT AND THE SUPPLY FAN ARE TO BE ENERGIZED AND OPERATE UNTIL THE SETPOINT IS REACHED.
  4. IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OF 65°F (ADJ.) THE SUPPLY FAN AND ELECTRIC HEAT ARE TO BE ENERGIZED AND OPERATE UNTIL THE SETPOINT IS REACHED.
  5. THE OUTSIDE AIR DAMPER IS TO REMAIN IN ITS UNOCCUPIED MODE POSITION.
- AIR FILTER DIFFERENTIAL PRESSURE SENSORS**
1. THE DIFFERENTIAL PRESSURE ACROSS THE FILTER BANK SHALL BE MONITORED BY THE RTU CONTROLLER. WHENEVER THE DIFFERENTIAL PRESSURE OF THE FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 0.5" WC (ADJ.) OR MORE AN ALARM SHALL BE SET.

**4 ROOFTOP UNIT RTU-4 CONTROL SCHEMATIC**  
H500 N.T.S.



**SEQUENCE OF OPERATION:**

- OCCUPIED MODE**
1. THE RTU IS TO BE COMMANDED INTO THE OCCUPIED MODE BY THE UNIT CONTROLLER. TIME OF DAY SCHEDULING IS TO BE BASED UPON DIRECTION FROM THE OWNER.
  2. WHEN COMMANDED INTO THE OCCUPIED MODE THE RTU'S SUPPLY FAN IS TO BE ENERGIZED AND THE VARIABLE FREQUENCY DRIVE (VFD) IS TO BE COMMANDED TO 30% OF THE MAXIMUM SPEED.
  3. THE OUTSIDE AIR DAMPER IS TO OPEN TO ITS MINIMUM POSITION.
  4. THE RETURN AIR DAMPER IS TO FULLY OPEN.
  5. THE EXHAUST AIR DAMPER IS TO FULLY OPEN.
  6. THE EXHAUST FAN VFD IS TO MODULATE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 0.05" RELATIVE TO THE BUILDING EXTERIOR.
  7. IF THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT OF 75°F (ADJ.) THE RTU REFRIGERATION CIRCUIT IS TO BE ENERGIZED AND COMPRESSORS MODULATED TO MAINTAIN A MAXIMUM SPEED.
  8. THE SUPPLY FAN VFD IS TO MODULATE THE SUPPLY FAN SPEED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
  9. IF THE SPACE TEMPERATURE SETPOINT IS SATISFIED BUT THE SPACE RELATIVE HUMIDITY EXCEEDS THE SETPOINT OF 60% (ADJ.), THE SUPPLY FAN IS TO OPERATE AT ITS MINIMUM SPEED AND THE REFRIGERATION CIRCUIT IS TO MODULATE ITS HOT GAS REHEAT TO MAINTAIN THE SPACE TEMPERATURE ABOVE THE HEATING SETPOINT OF 70°F (ADJ.).
  10. IF THE SPACE TEMPERATURE AND RELATIVE HUMIDITY SETPOINTS ARE SATISFIED THE REFRIGERATION CIRCUIT SHALL BE DE-ENERGIZED.
  11. UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT OF 70°F (ADJ.), THE SUPPLY FAN IS TO RAMP UP TO 100% SPEED AND THE ELECTRIC HEAT IS TO MODULATE TO MAINTAIN THE HEATING SETPOINT.
  12. ONCE THE HEATING SETPOINT IS SATISFIED, THE ELECTRIC HEAT SHALL BE DE-ACTIVATED.
  13. WHEN IN THE OCCUPIED AND COOLING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE RETURN AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
  14. WHEN IN THE OCCUPIED AND HEATING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE RETURN AIR TEMPERATURE IS LESS THAN THE OUTSIDE AIR TEMPERATURE.
  15. UPON A RISE IN SPACE CARBON DIOXIDE (CO2) CONCENTRATION LEVEL ABOVE 1,000 PARTS PER MILLION (PPM, ADJ.) THE OUTSIDE AIR DAMPER IS TO MODULATE BETWEEN ITS MINIMUM AND MAXIMUM POSITIONS TO MAINTAIN THE CARBON DIOXIDE CONCENTRATION SETPOINT. IF THE OUTSIDE AIR DAMPER IS 100% OPEN AND THE CO2 CONCENTRATION LEVEL REMAINS ABOVE 1,000 PPM, THE SUPPLY FAN IS TO MODULATE ITS SPEED TO MAINTAIN THE CO2 CONCENTRATION SETPOINT. UPON A FALL IN CO2 LEVEL THE REVERSE IS TO OCCUR.
  16. WHEN THE RTU IS IN THE COOLING MODE AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THAT OF THE RETURN AIR, THE OUTSIDE AIR DAMPER IS TO FULLY OPEN, THE RETURN AIR DAMPER IS TO FULLY SHUT AND THE EXHAUST AIR DAMPER IS TO FULLY OPEN. THE RTU IS TO OTHERWISE OPERATE NORMALLY.
- UNOCCUPIED MODE**
1. THE RTU OUTSIDE DAMPER IS TO FULLY SHUT. THE EXHAUST AIR DAMPER IS TO FULLY SHUT AND THE RETURN AIR DAMPER IS TO FULLY OPEN.
  2. THE SUPPLY FAN, THE EXHAUST FAN, THE REFRIGERATION CIRCUIT AND THE ELECTRIC HEAT ARE TO ALL BE DE-ACTIVATED.
  3. IF THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED COOLING SETPOINT OF 80°F (ADJ.), THE REFRIGERATION CIRCUIT AND THE SUPPLY FAN ARE TO BE ENERGIZED AND OPERATE AT 100% UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
  4. IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OF 65°F (ADJ.) THE SUPPLY FAN AND ELECTRIC HEAT ARE TO BE ENERGIZED AND OPERATE AT 100% UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
- RETURN DUCT MOUNTED SMOKE DETECTOR**
1. UPON ACTIVATION OF THE RETURN AIR MOUNTED SMOKE DETECTOR, THE RTU SUPPLY AND EXHAUST FANS ARE TO BE DE-ENERGIZED AND THE OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- FIRE ALARM SHUTDOWN**
1. UPON ANY ACTIVATION OF THE FIRE ALARM SYSTEM, IN AN AREA SERVED BY THE RTU, THE RTU SUPPLY AND EXHAUST FANS ARE TO BE DE-ENERGIZED AND THE OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- AIR FILTER DIFFERENTIAL PRESSURE SENSORS**
1. THE DIFFERENTIAL PRESSURE ACROSS THE FILTER BANK SHALL BE MONITORED BY THE RTU CONTROLLER. WHENEVER THE DIFFERENTIAL PRESSURE OF THE FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 0.5" WC (ADJ.) OR MORE AN ALARM SHALL BE SET.
- WHEEL DEFROST CYCLE**
1. WHEN COMMANDED SO BY THE RTU CONTROLLER, THE RTU IS TO OPERATE IN THE WHEEL DEFROST CYCLE. THE WHEEL DEFROST CYCLE SHALL OPERATE PER THE MANUFACTURER'S INSTRUCTIONS.

**1 GYM ROOFTOP UNITS (RTU-1,2,6) WITH ENERGY WHEEL CONTROL SCHEMATIC**  
H500 N.T.S.

**SEQUENCE OF OPERATION:**

- OCCUPIED MODE:**
1. THE RTU IS TO BE COMMANDED INTO THE OCCUPIED MODE BY THE UNIT CONTROLLER. THE ERV IS TO BE COMMANDED INTO OCCUPIED MODE VIA TIME CLOCK. TIME OF DAY SCHEDULING IS TO BE BASED UPON DIRECTION FROM THE OWNER.
  2. WHEN COMMANDED INTO THE OCCUPIED MODE, THE RTU'S SUPPLY FAN IS TO BE ENERGIZED, THE ERV'S SUPPLY, EXHAUST AND ENERGY WHEEL ARE TO BE ENERGIZED.
  3. ERV OUTSIDE AND EXHAUST AIR DAMPERS ARE TO FULLY OPEN.
  4. IF THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT OF 75°F (ADJ.), THE RTU REFRIGERATION CIRCUIT IS TO BE ENERGIZED.
  5. IF THE SPACE TEMPERATURE IS SATISFIED BUT THE SPACE RELATIVE HUMIDITY EXCEEDS THE SETPOINT OF 60% (ADJ.), THE REFRIGERATION CIRCUIT IS TO MODULATE ITS HOT GAS REHEAT TO MAINTAIN THE SPACE TEMPERATURE ABOVE THE HEATING SETPOINT OF 70°F (ADJ.).
  6. IF THE SPACE TEMPERATURE AND RELATIVE HUMIDITY SETPOINTS ARE SATISFIED THE REFRIGERATION CIRCUIT CAN BE DE-ENERGIZED.
  7. UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT OF 70°F (ADJ.), THE ELECTRIC HEAT IS TO ACTIVATE TO MAINTAIN THE HEATING SETPOINT.
  8. ONCE THE HEATING SETPOINT IS SATISFIED, THE ELECTRIC HEAT CAN BE DE-ACTIVATED.
  9. WHEN IN THE OCCUPIED AND COOLING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
  10. WHEN IN THE OCCUPIED AND HEATING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE RETURN AIR TEMPERATURE IS LESS THAN THE OUTSIDE AIR TEMPERATURE.
  11. WHEN THE RTU IS IN THE COOLING MODE AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THAT OF THE RETURN AIR, THE OUTSIDE AIR DAMPER IS TO FULLY OPEN, THE RETURN AIR DAMPER IS TO FULLY SHUT AND THE EXHAUST AIR DAMPER IS TO FULLY OPEN. THE RTU IS TO OTHERWISE OPERATE NORMALLY.
- UNOCCUPIED MODE:**
1. THE ERV OUTSIDE AND EXHAUST DAMPERS ARE FULLY SHUT.
  2. THE RTU'S SUPPLY FAN, REFRIGERATION CIRCUIT AND THE ELECTRIC HEAT ARE TO ALL BE DE-ACTIVATED. THE ERV'S SUPPLY FAN, EXHAUST FAN AND ENERGY WHEEL ARE TO ALL BE DE-ACTIVATED.
  3. IF THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED COOLING SETPOINT OF 80°F (ADJ.), THE REFRIGERATION CIRCUIT AND THE SUPPLY FAN ARE TO BE ENERGIZED AND OPERATE UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
  4. IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OF 65°F (ADJ.), THE SUPPLY FAN AND ELECTRIC HEAT ARE TO BE ENERGIZED AND OPERATE UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
  5. THE OUTSIDE AIR DAMPER IS TO REMAIN IN ITS UNOCCUPIED MODE POSITION.
- RETURN DUCT MOUNTED SMOKE DETECTOR**
1. UPON ACTIVATION OF THE RETURN AIR MOUNTED SMOKE DETECTOR, THE RTU SUPPLY FAN IS TO BE DE-ENERGIZED AND THE OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- FIRE ALARM SHUTDOWN**
1. UPON ANY ACTIVATION OF THE FIRE ALARM SYSTEM, IN AN AREA SERVED BY THE RTU, THE RTU SUPPLY FAN IS TO BE DE-ENERGIZED AND THE ERV'S SUPPLY FAN, EXHAUST FAN, AND ENERGY WHEEL SHALL BE DE-ENERGIZED. THE ERV'S OUTSIDE AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- AIR FILTER DIFFERENTIAL PRESSURE SENSORS**
1. THE DIFFERENTIAL PRESSURE ACROSS THE FILTER BANK SHALL BE MONITORED BY THE RTU CONTROLLER. WHENEVER THE DIFFERENTIAL PRESSURE OF THE FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 0.5" WC (ADJ.) OR MORE AN ALARM SHALL BE SET.

**5 FITNESS CENTER ROOFTOP UNIT RTU-5 AND ENERGY RECOVERY VENTILATOR ERV-5 CONTROL DIAGRAM**  
H500 N.T.S.

**SEQUENCE OF OPERATION:**

- OCCUPIED MODE**
1. THE RTU IS TO BE COMMANDED INTO THE OCCUPIED MODE BY THE UNIT CONTROLLER. TIME OF DAY SCHEDULING IS TO BE BASED UPON DIRECTION FROM THE OWNER.
  2. WHEN COMMANDED INTO THE OCCUPIED MODE THE RTU'S SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) IS TO BE ENERGIZED AND SHALL OPERATE AT A CONSTANT VOLUME.
  3. THE OUTSIDE AIR DAMPER IS TO FULLY OPEN.
  4. THE RETURN AIR DAMPER IS TO FULLY CLOSE.
  5. THE EXHAUST AIR DAMPER IS TO FULLY OPEN.
  6. THE EXHAUST FAN VFD IS TO BE ENERGIZED AND SHALL OPERATE AT A CONSTANT VOLUME.
  7. IF THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT OF 75°F (ADJ.) THE RTU REFRIGERATION CIRCUIT IS TO BE ENERGIZED AND COMPRESSORS MODULATED TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55°F (ADJ.).
  8. IF THE SPACE TEMPERATURE SETPOINT IS SATISFIED BUT THE SPACE RELATIVE HUMIDITY EXCEEDS THE SETPOINT OF 60% (ADJ.), THE REFRIGERATION CIRCUIT IS TO MODULATE ITS HOT GAS REHEAT TO MAINTAIN THE SPACE TEMPERATURE ABOVE THE HEATING SETPOINT OF 70°F (ADJ.).
  9. IF THE SPACE TEMPERATURE AND RELATIVE HUMIDITY SETPOINTS ARE SATISFIED THE REFRIGERATION CIRCUIT SHALL BE DE-ENERGIZED.
  10. UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT OF 70°F (ADJ.), THE ELECTRIC HEAT IS TO MODULATE TO MAINTAIN THE HEATING SETPOINT.
  11. ONCE THE HEATING SETPOINT IS SATISFIED, THE ELECTRIC HEAT SHALL BE DE-ACTIVATED.
  12. WHEN IN THE OCCUPIED AND COOLING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
  13. WHEN IN THE OCCUPIED AND HEATING MODE THE ENERGY RECOVERY WHEEL IS TO BE ENERGIZED UNLESS THE RETURN AIR TEMPERATURE IS LESS THAN THE OUTSIDE AIR TEMPERATURE.
- UNOCCUPIED MODE**
1. THE RTU OUTSIDE DAMPER IS TO FULLY SHUT. THE EXHAUST AIR DAMPER IS TO FULLY SHUT AND THE RETURN AIR DAMPER IS TO FULLY OPEN.
  2. THE SUPPLY FAN, THE EXHAUST FAN, THE REFRIGERATION CIRCUIT AND THE ELECTRIC HEAT ARE TO ALL BE DE-ACTIVATED.
  3. IF THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED COOLING SETPOINT OF 80°F (ADJ.), THE SUPPLY FAN AND REFRIGERANT CIRCUIT ARE TO BE ENERGIZED AND COMPRESSORS MODULATED UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
  4. IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OF 65°F (ADJ.) THE SUPPLY FAN SHALL BE ENERGIZED AND ELECTRIC HEAT SHALL MODULATE UNTIL THE SETPOINT IS REACHED. ALL DAMPERS ARE TO REMAIN IN THEIR UNOCCUPIED MODE POSITIONS.
- RETURN DUCT MOUNTED SMOKE DETECTOR**
1. UPON ACTIVATION OF THE RETURN AIR MOUNTED SMOKE DETECTOR, THE RTU SUPPLY AND EXHAUST FANS ARE TO BE DE-ENERGIZED AND THE OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- FIRE ALARM SHUTDOWN**
1. UPON ANY ACTIVATION OF THE FIRE ALARM SYSTEM, IN AN AREA SERVED BY THE RTU, THE RTU SUPPLY AND EXHAUST FANS ARE TO BE DE-ENERGIZED AND THE OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS ARE TO CLOSE.
- AIR FILTER DIFFERENTIAL PRESSURE SENSORS**
1. THE DIFFERENTIAL PRESSURE ACROSS THE FILTER BANK SHALL BE MONITORED BY THE RTU CONTROLLER. WHENEVER THE DIFFERENTIAL PRESSURE OF THE FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 0.5" WC (ADJ.) OR MORE AN ALARM SHALL BE SET.
- WHEEL DEFROST CYCLE**
1. WHEN COMMANDED SO BY THE RTU CONTROLLER, THE RTU IS TO OPERATE IN THE WHEEL DEFROST CYCLE. THE WHEEL DEFROST CYCLE SHALL OPERATE PER THE MANUFACTURER'S INSTRUCTIONS.

**2 LOCKER ROOM ROOFTOP UNIT (RTU-3) WITH ENERGY WHEEL CONTROL SCHEMATIC**  
H500 N.T.S.

**6 EXHAUST FAN CONTROL DIAGRAM**  
H500 N.T.S.

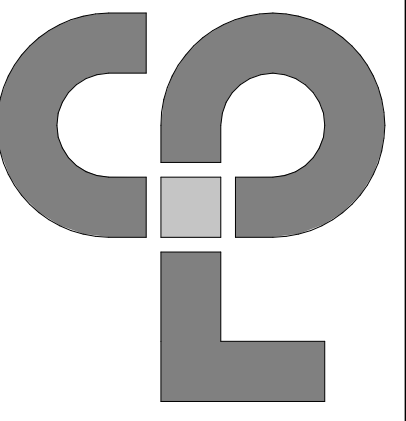
- SEQUENCE OF OPERATION**
1. WHEN THE WALL SWITCH IS PLACED IN THE "ON" POSITION, THE EXHAUST FAN MOTORIZED SHUTTER SHALL FULLY OPEN AND EXHAUST FAN SHALL BE ENERGIZED.
  2. WHEN THE WALL SWITCH IS PLACED IN THE "OFF" POSITION, THE EXHAUST FAN MOTORIZED SHUTTER SHALL FULLY CLOSE AND EXHAUST FAN SHALL BE DE-ENERGIZED.

**3 ELECTRIC UNIT HEATER CONTROL DIAGRAM**  
H500 N.T.S.

- SEQUENCE OF OPERATION:**
1. ELECTRIC HEATER SHALL OPERATE TO MAINTAIN SPACE HEATING TEMPERATURE SETPOINT VIA MANUFACTURER'S INTEGRAL THERMOSTAT.

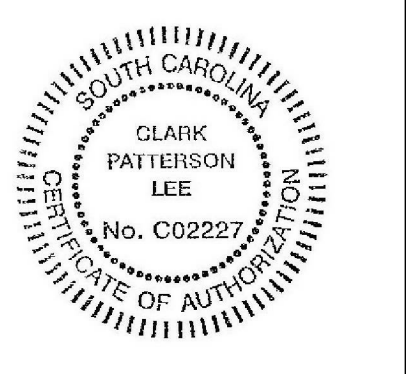
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NO.	DATE	BY	CHKD	DESCRIPTION

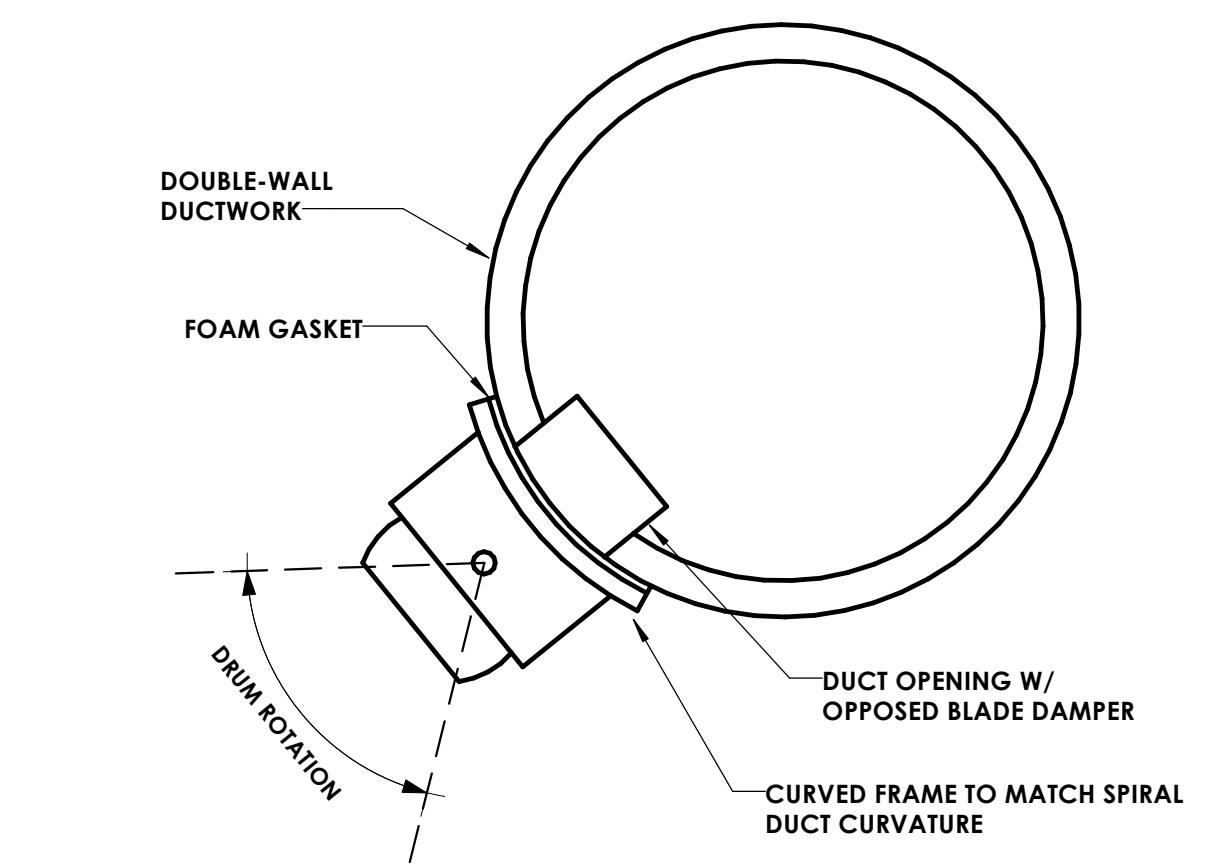


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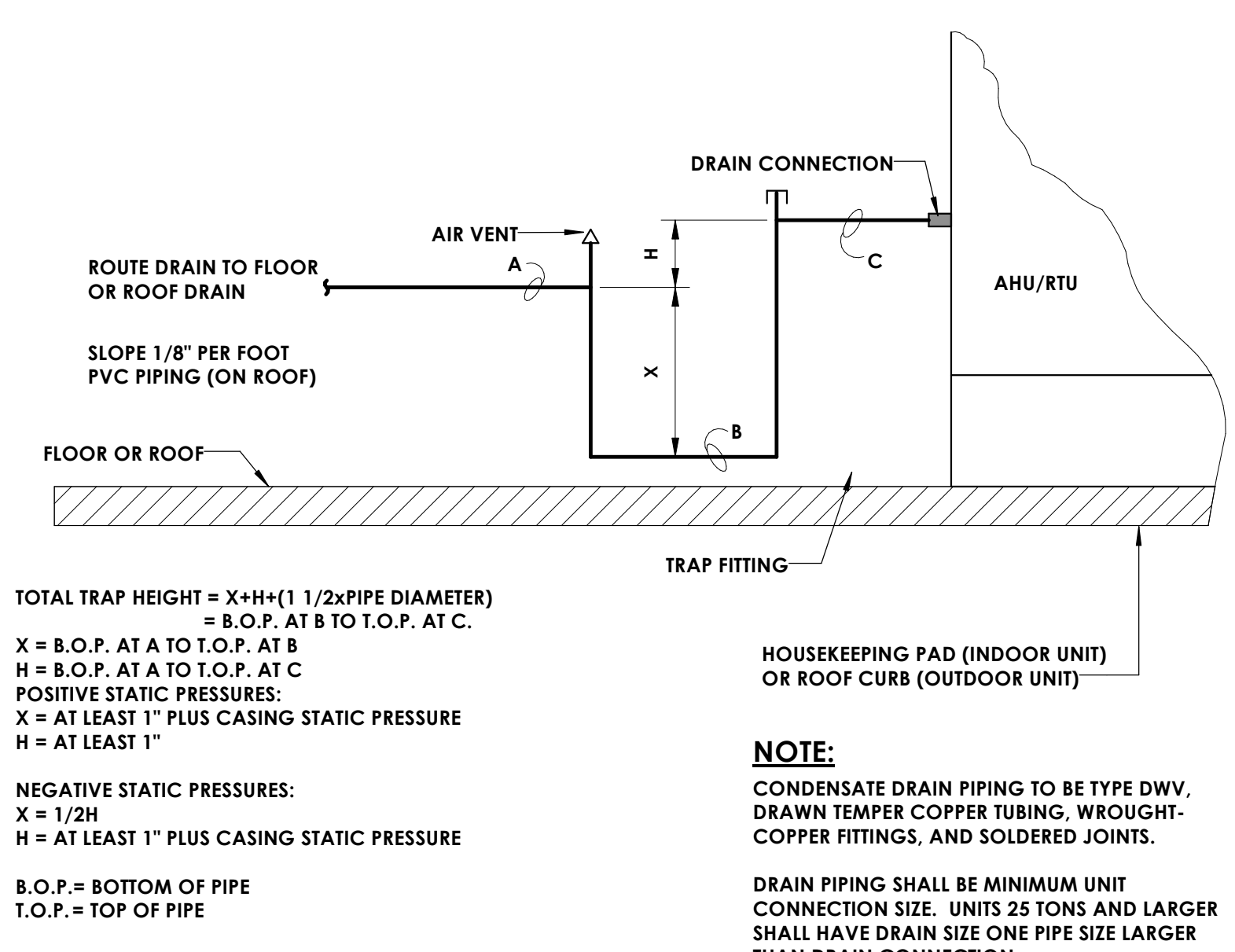
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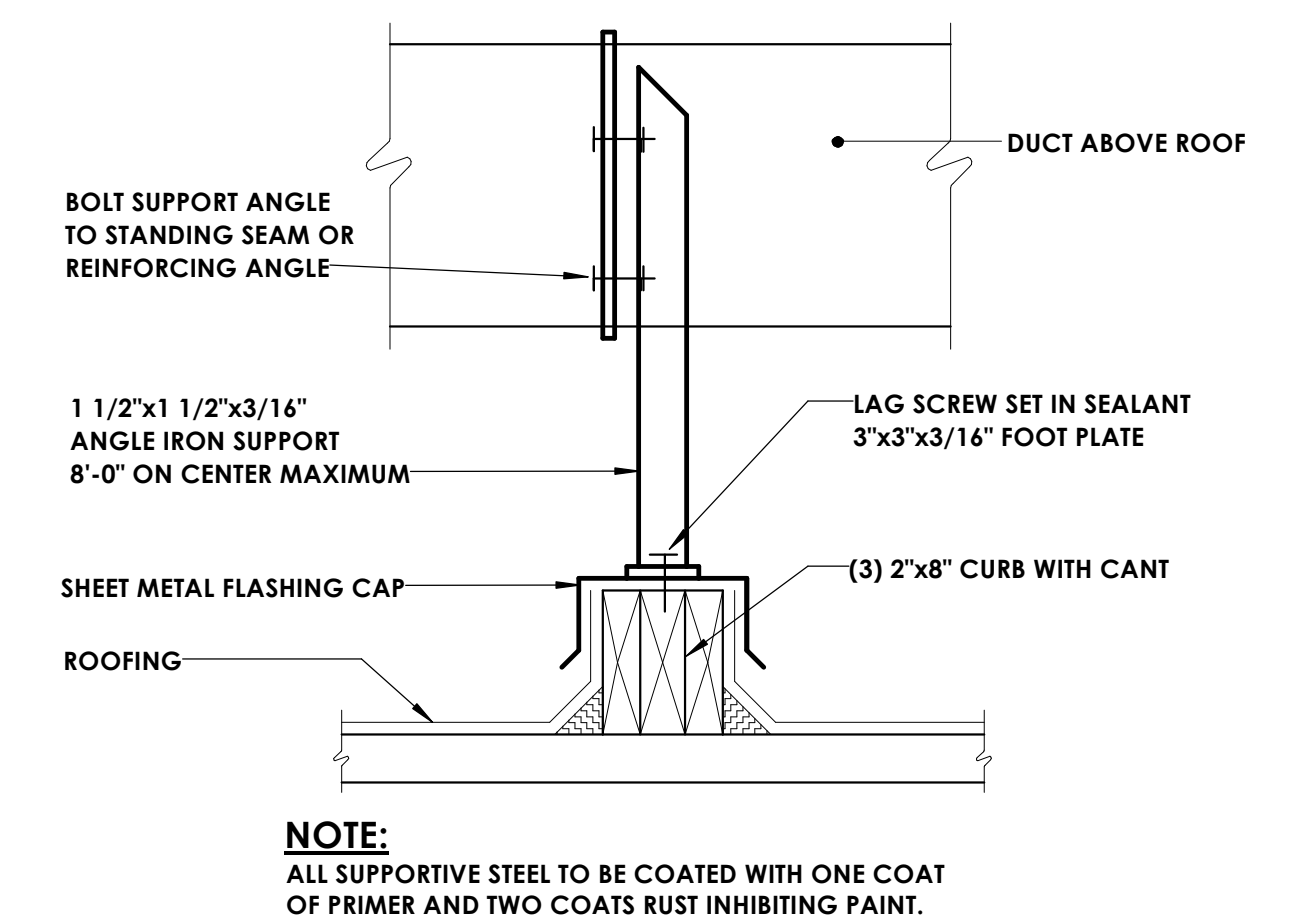
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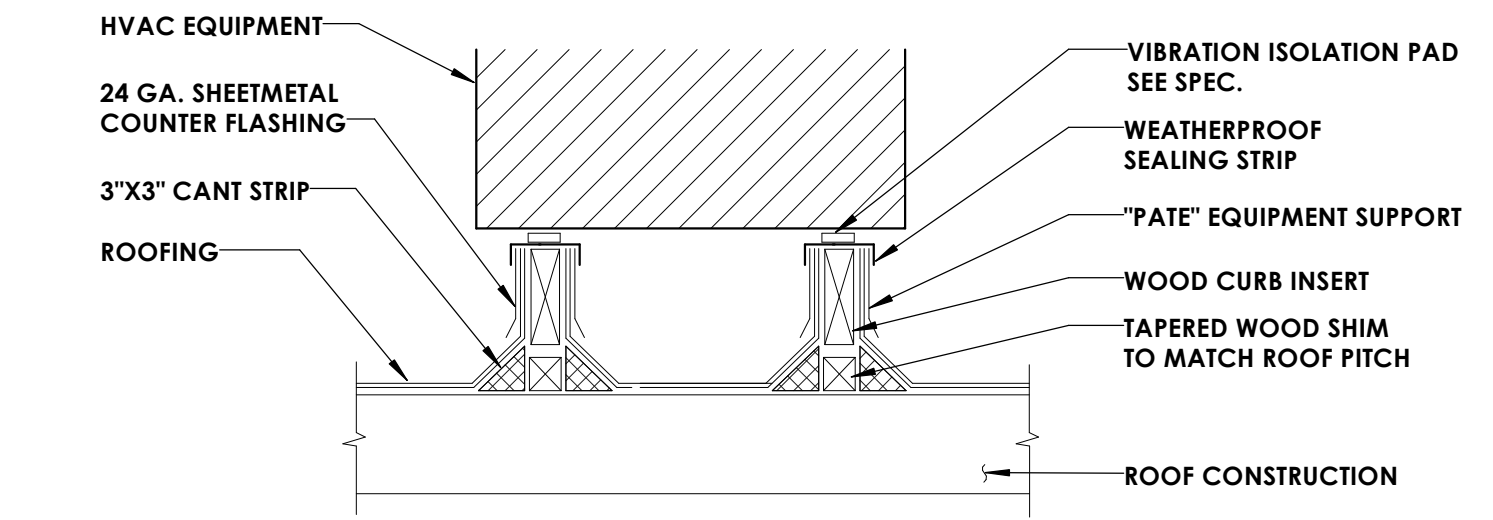
**9 DRUM LOUVER INSTALLATION DETAIL**  
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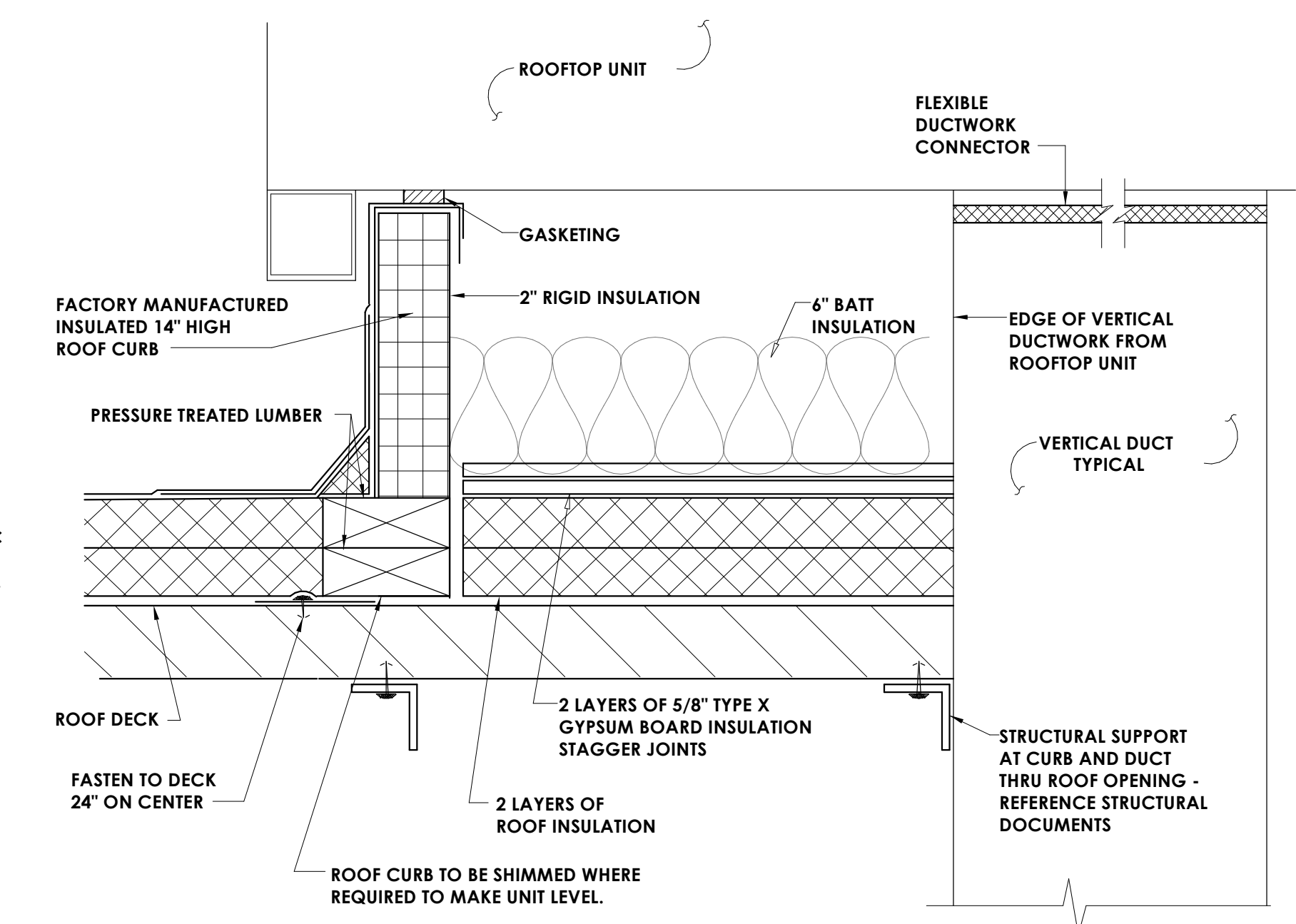
**10 TYPICAL AHU/RTU CONDENSATE DRAIN DETAIL**  
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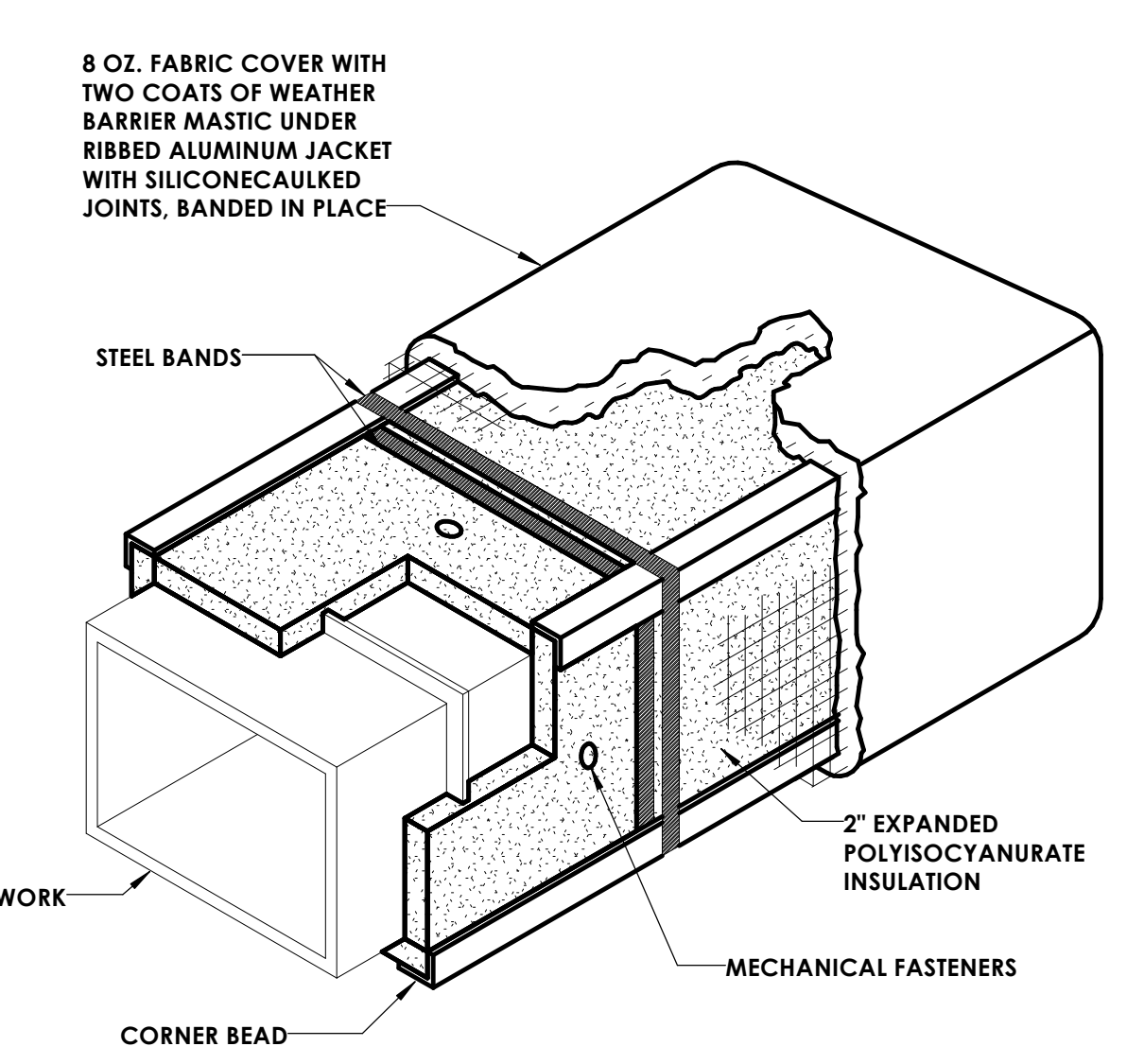
**11 DUCT SUPPORT CURB**  
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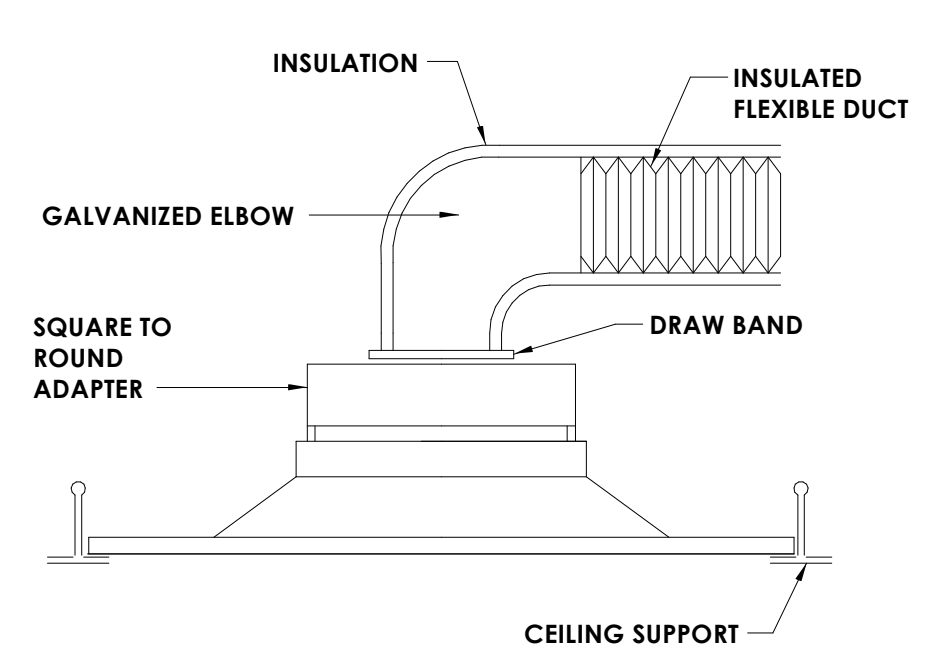
**12 EQUIPMENT BASE**  
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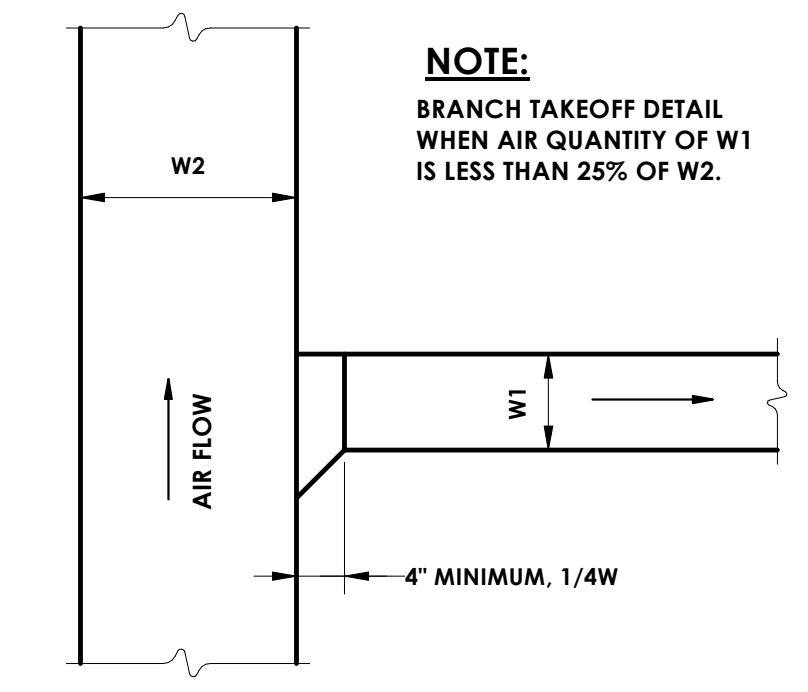
**5 ROOFTOP UNIT CURB DETAIL**  
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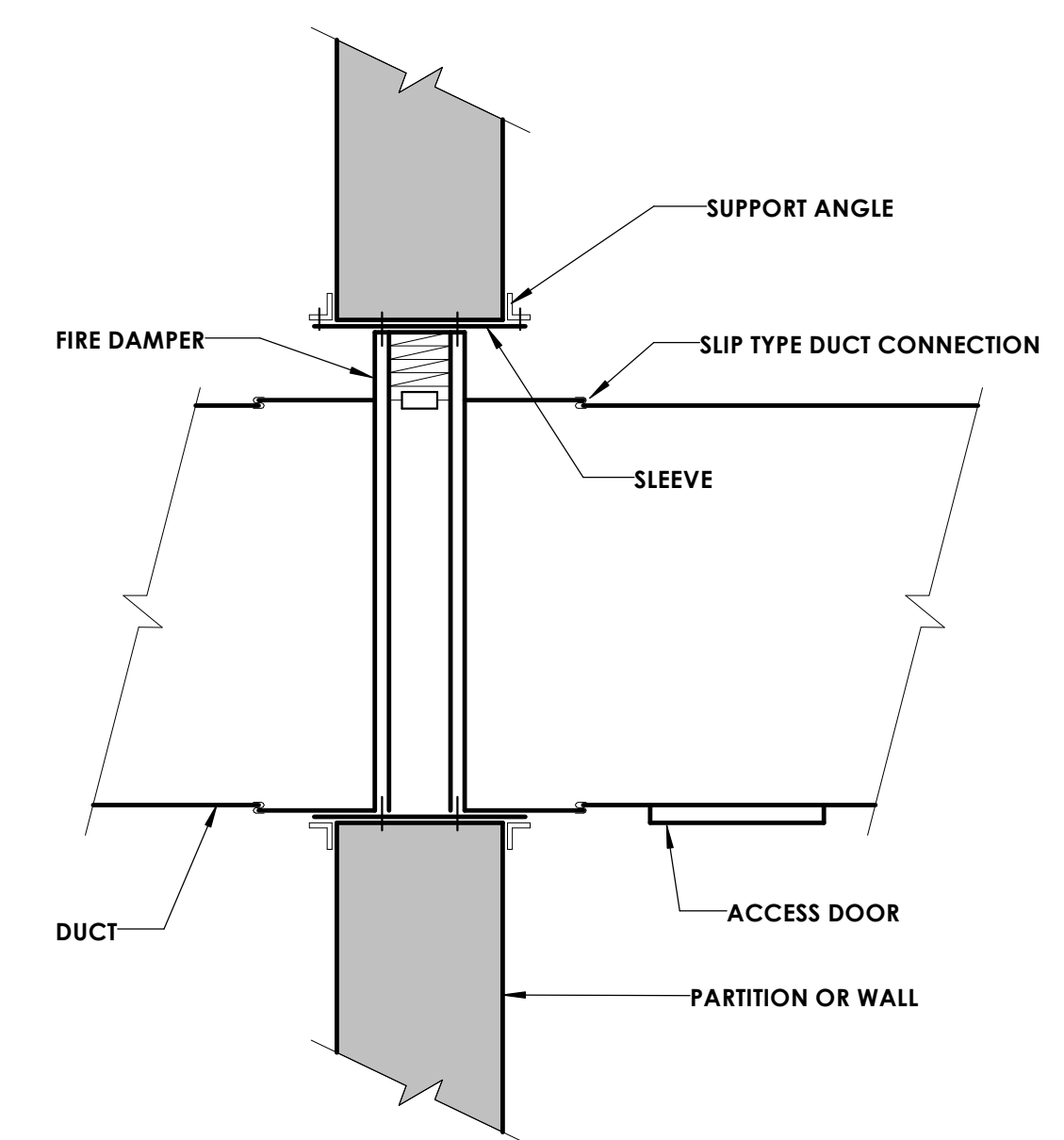
**6 EXTERIOR DUCTWORK INSULATION DETAIL**  
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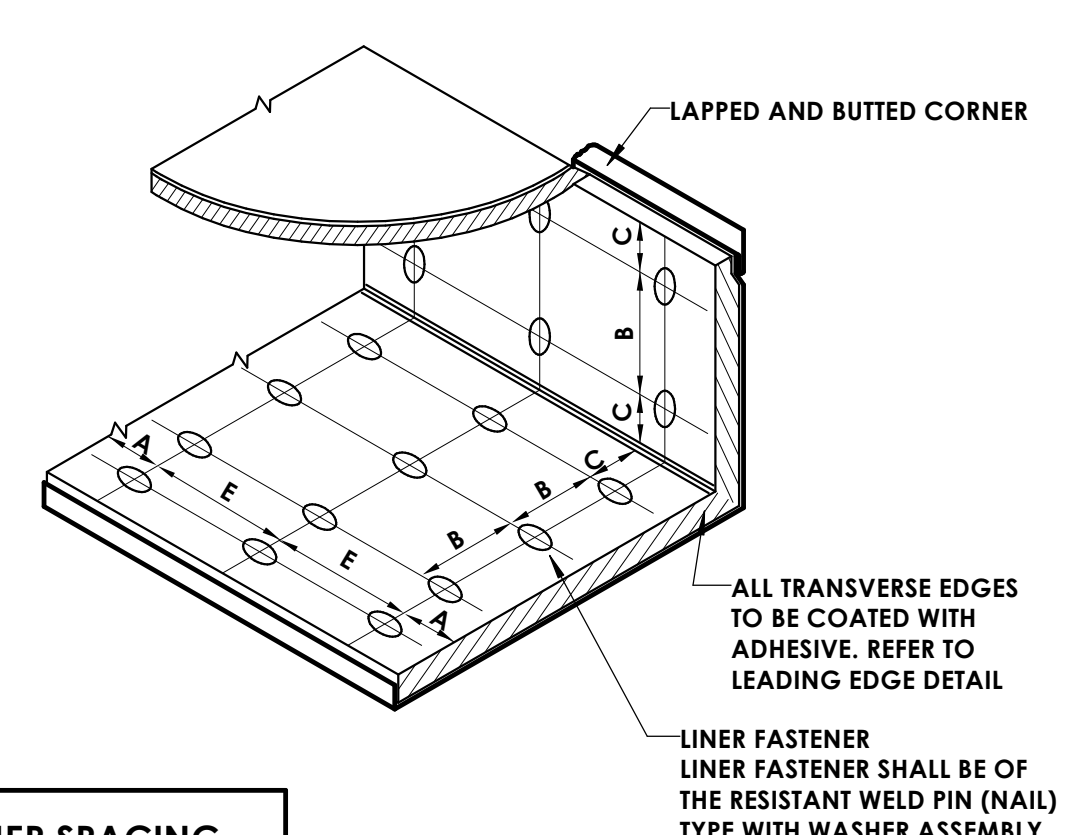
**7 DIFFUSER DETAIL**  
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**8 BRANCH TAKE-OFF DETAIL**  
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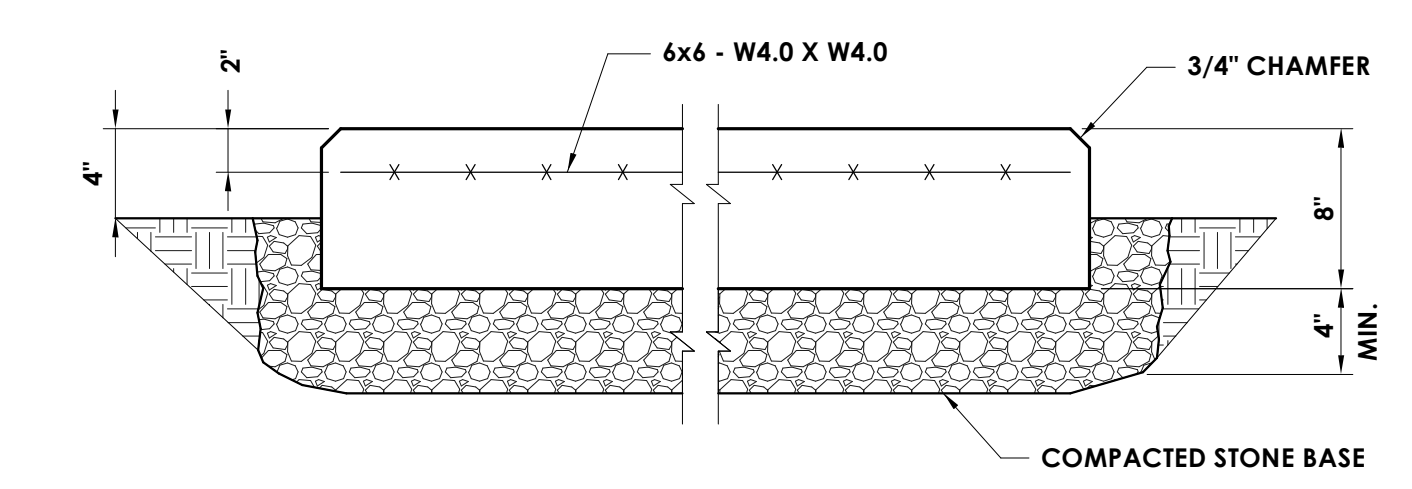


**2 VERTICAL FIRE DAMPER DETAIL**  
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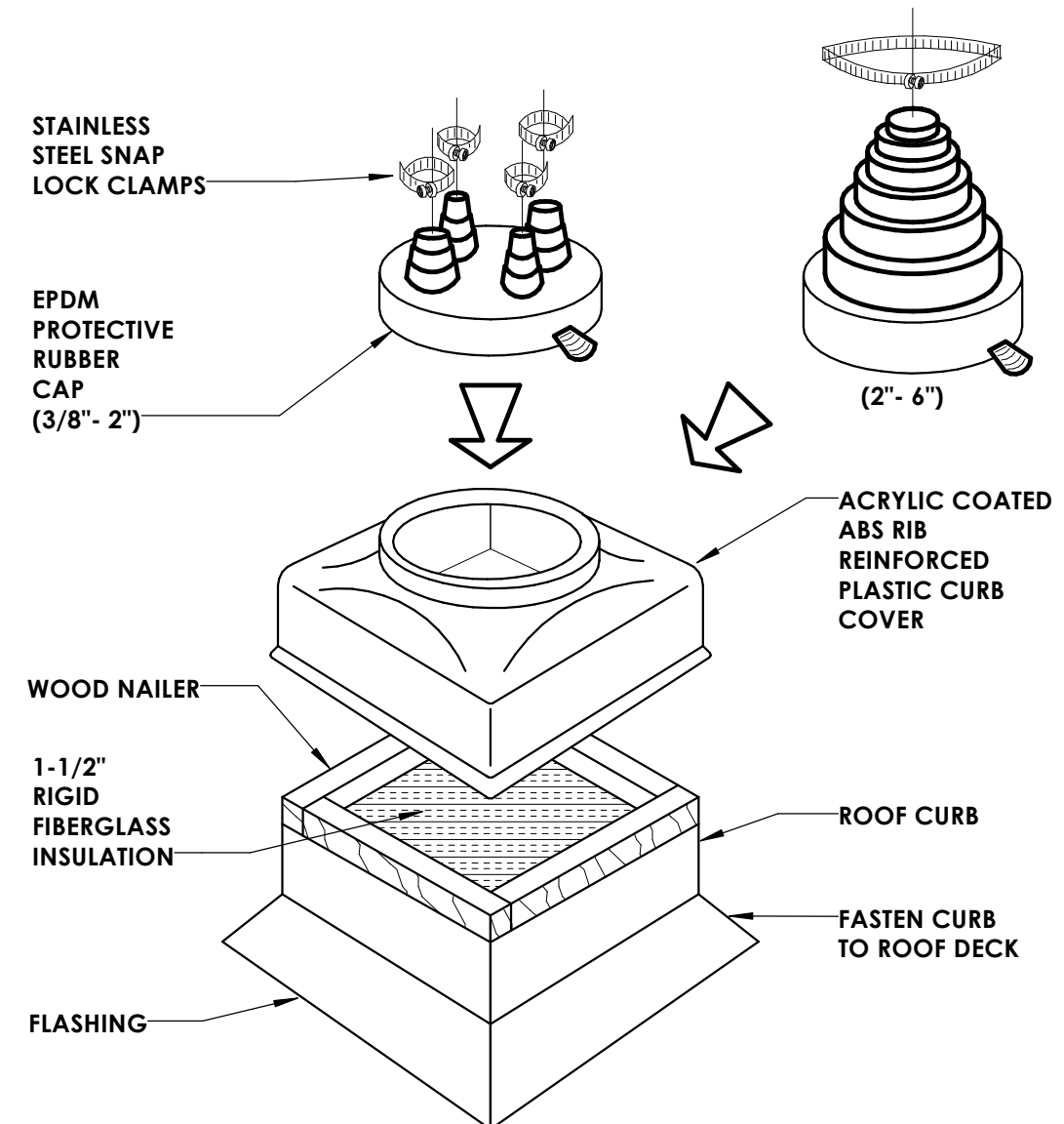


VELOCITY	DIMENSIONS			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

**3 DUCT LINER INSTALLATION DETAIL**  
 H800 NOT TO SCALE



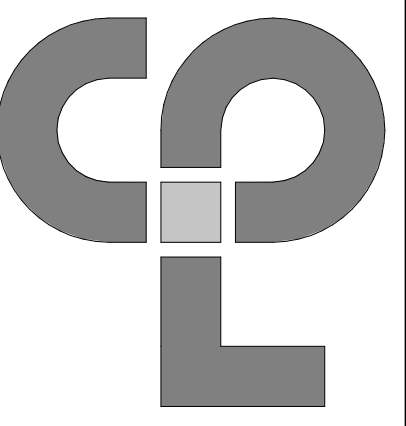
**1 EXTERIOR CONCRETE PAD DETAIL**  
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**4 PIPE PORTAL**  
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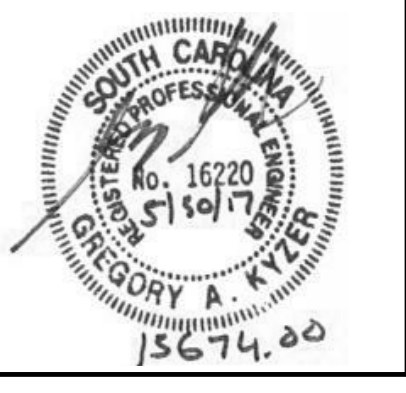
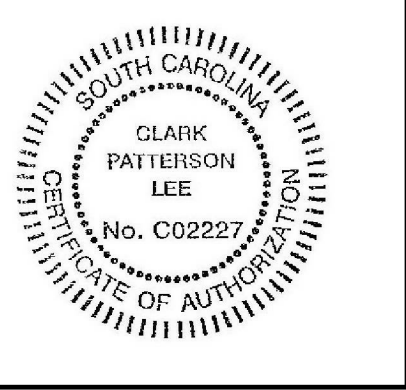
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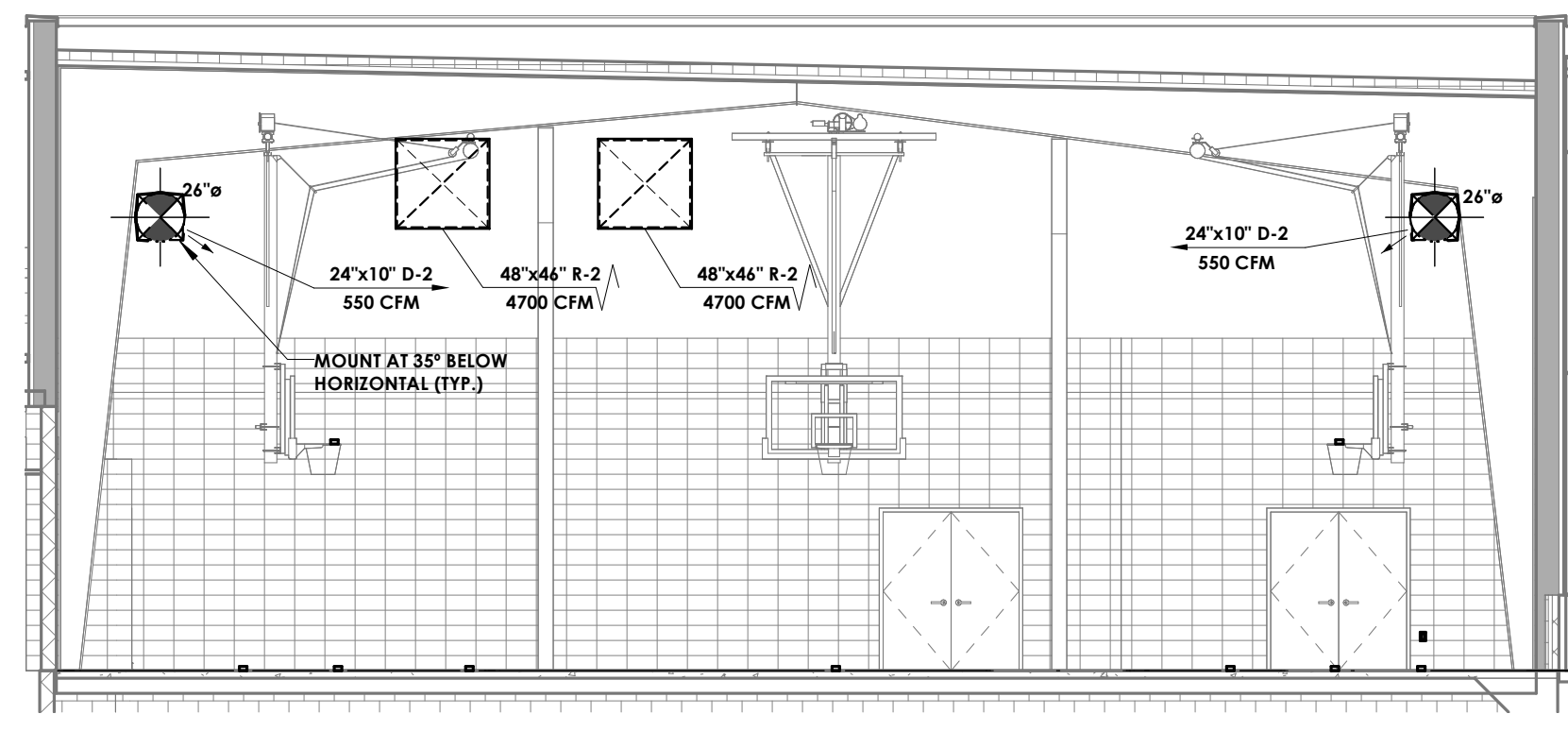
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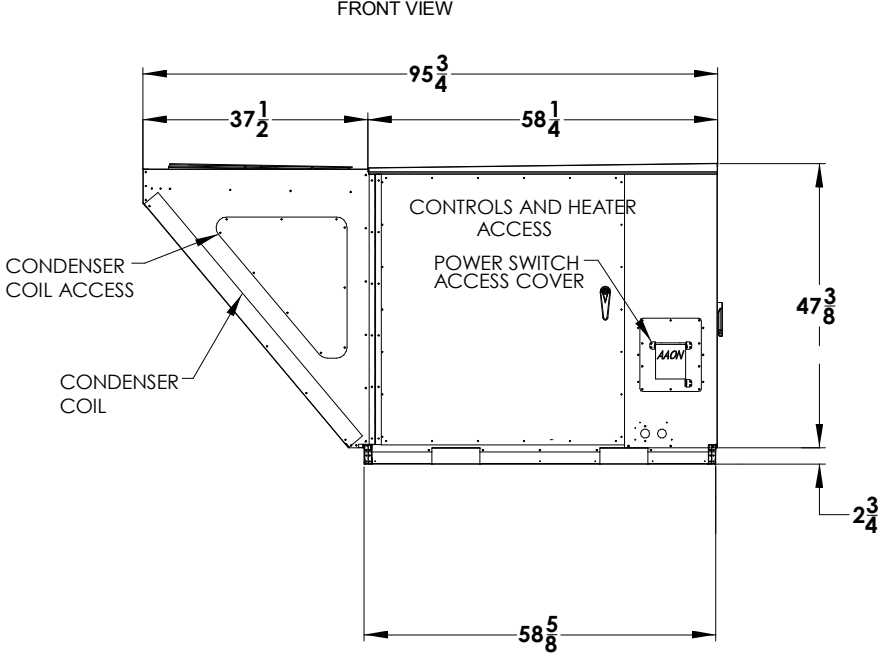
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 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	AMT	GAK
SCALE	As indicated	
SHEET TITLE	HVAC DETAILS	

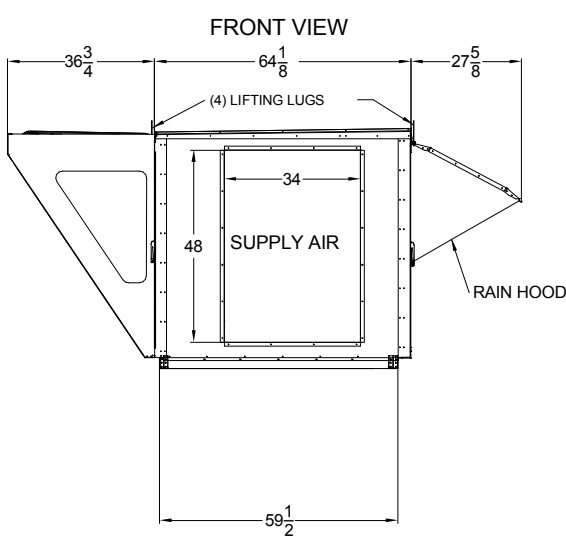
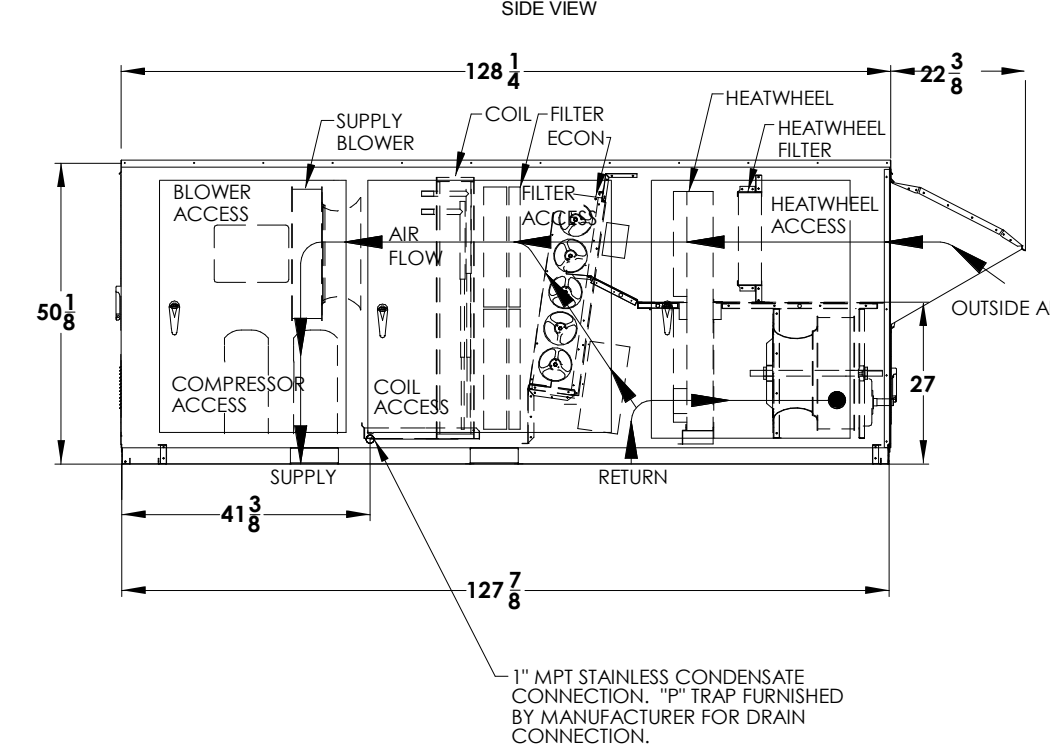
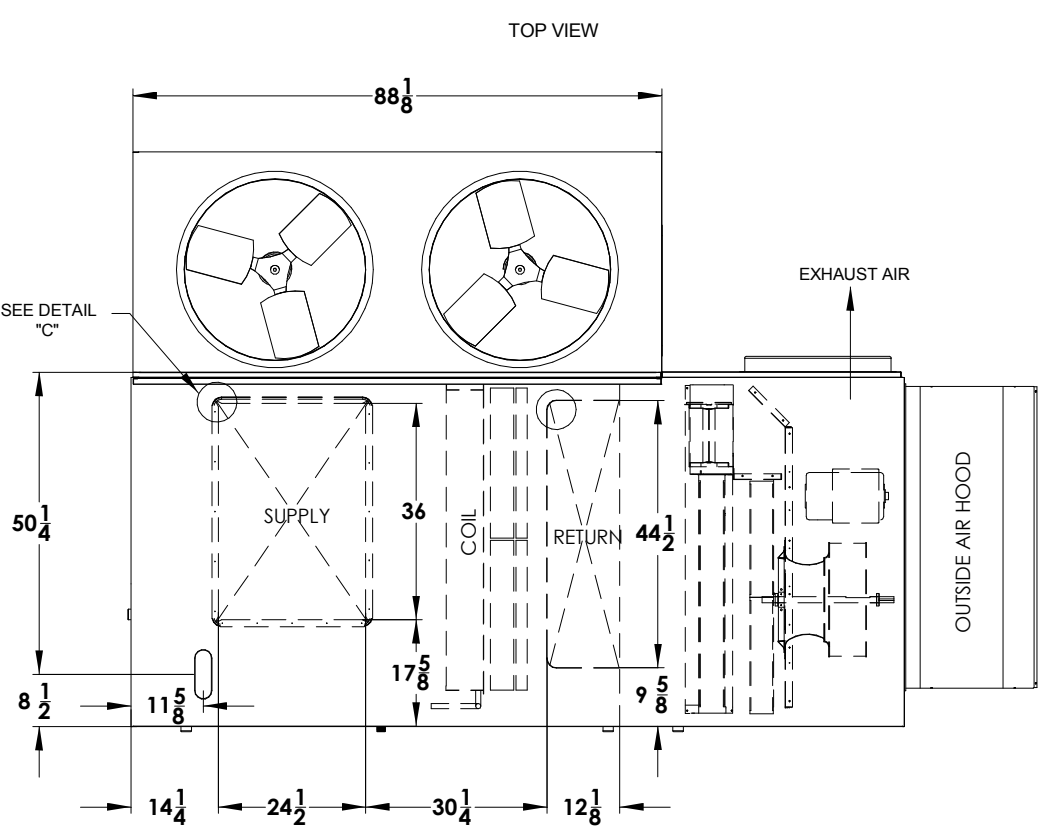
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CC	H801
DRAWING NUMBER	



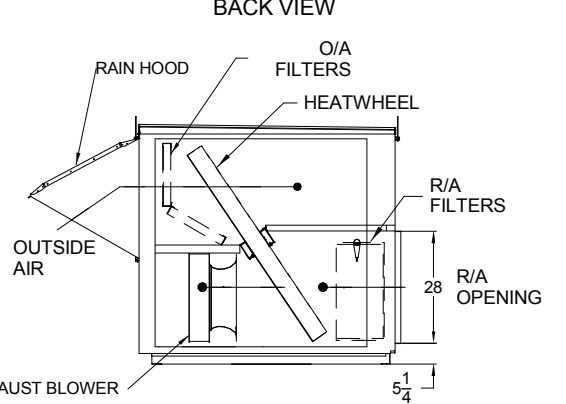
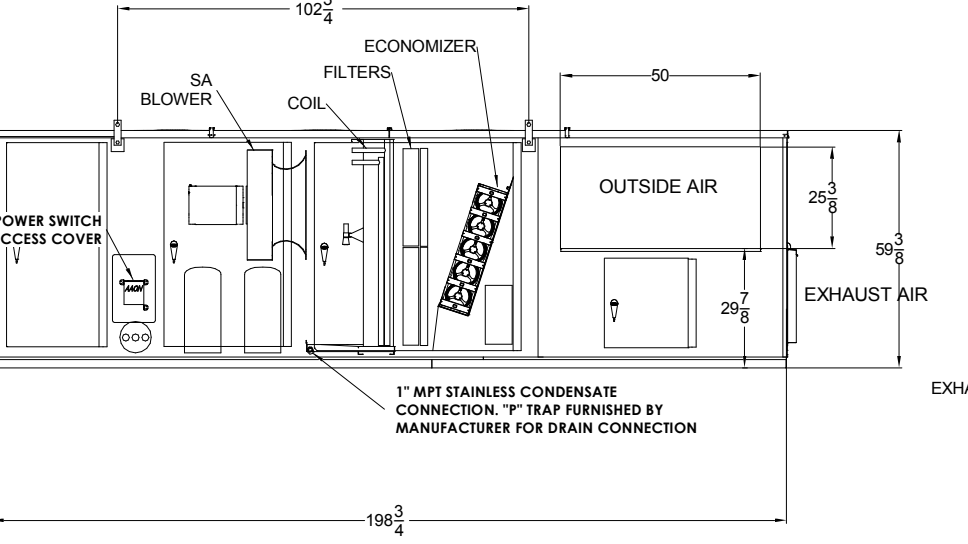
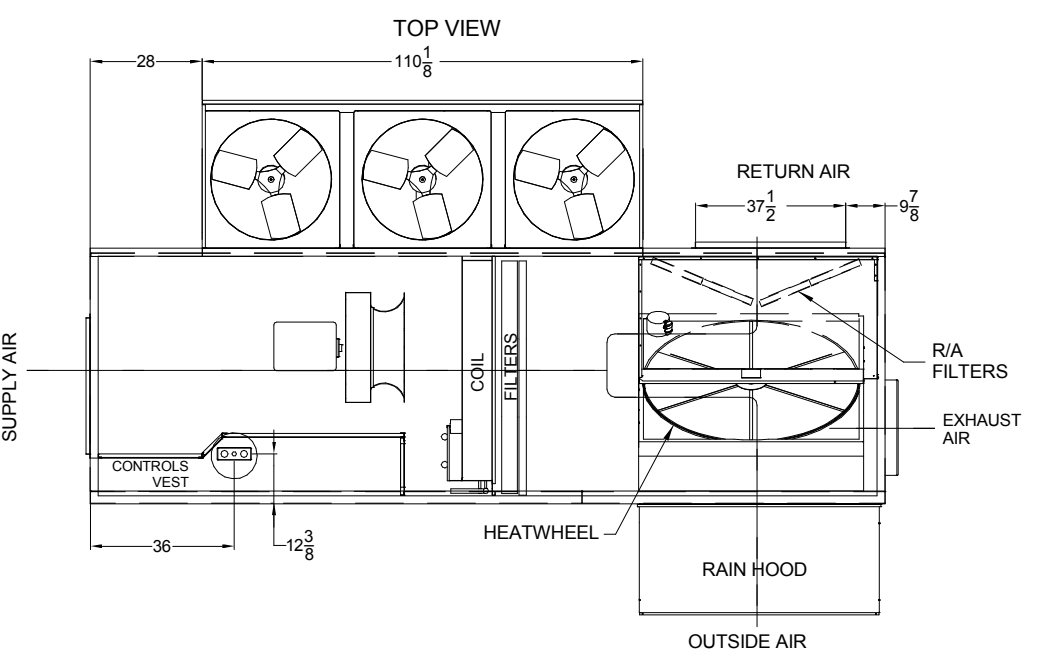
**3 SECTION - NEW GYM 133**  
 H801 1/8" = 1'-0"



**2 DETAIL - LOCKER ROOM UNIT RTU-3**  
 H801 NOT TO SCALE

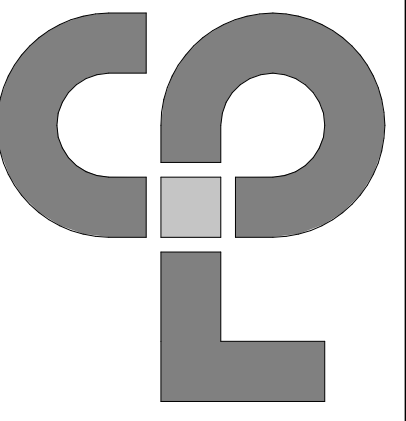


**1 DETAIL - GYM UNITS RTU-1,2,6**  
 H801 NOT TO SCALE



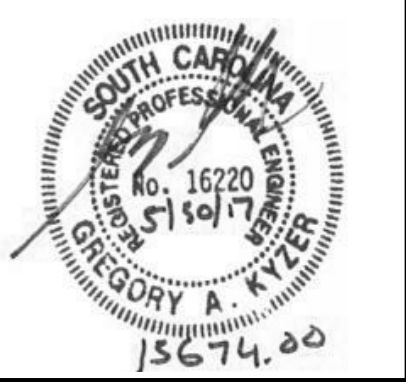
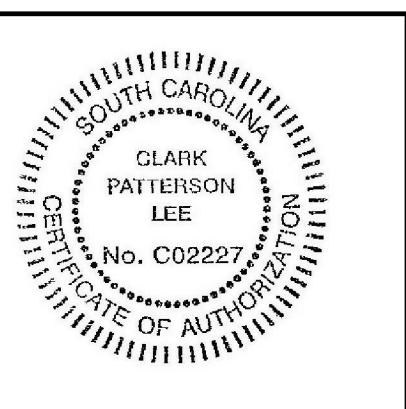
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Revision Schedule  
NO. DATE BY CHKD DESCRIPTION



COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE: 05/30/17  
SCALE: N.T.S.  
SHEET TITLE: SCHEDULES

PROJECT NUMBER: 13674.00

CC H900  
DRAWING NUMBER

ELECTRIC HEATER SCHEDULE									
MARK	CONFIGURATION	MANUFACTURER	MODEL	KW	CFM	VOLT/PHASE	MCA	REMARKS	
EUH-1	CEILING-SUSPENDED	QMARK	MUH03-81	3	350	208/1	14.5	1-2	

**REMARKS**  
1. PROVIDE MANUFACTURER'S INTEGRAL DISCONNECT SWITCH.  
2. PROVIDE MANUFACTURER'S INTEGRAL THERMOSTAT.

DIFFUSER/GRILLE SCHEDULE					
MARK	APPLICATION	MATERIAL	FINISH	DESIGN EQUIPMENT	REMARKS
D-1	SUPPLY DIFFUSER	STEEL	WHITE	TITUS, TMS	1, 4, 5
D-2	DRUM SUPPLY GRILLE	ALUMINUM	(3)	TITUS, S-DL WITH OPPOSED BLADE DAMPER	4, 5
D-3	SUPPLY GRILLE	STEEL	WHITE	TITUS, 300RL	4, 5
R-1	RETURN GRILLE	STEEL	WHITE	TITUS, 355RL	2, 4, 5
R-2	RETURN GRILLE - HEAVY DUTY	STEEL	WHITE	TITUS, 33RL	4, 5

**REMARKS**  
1. PROVIDE 24"x24" MODULE. COORDINATE WITH SPACE CEILING TYPE FOR LAY-IN OR SURFACE MOUNTING.  
2. FOR GRILLES MOUNTED IN LAY-IN CEILING SYSTEM, PROVIDE MANUFACTURER'S 24"x24" STANDARD ADAPTOR MODULE TO FIT IN GRID.  
3. COLOR TO BE SELECTED BY ARCHITECT.  
4. SEE PLANS FOR NECK SIZE AND AIRFLOW RATE.  
5. PROVIDE HANGERS AND MOUNTING ACCESSORIES SUITABLE FOR CEILING TYPE. COORDINATE DIFFUSERS/GRILLES WITH ARCHITECTURAL CEILING AND LIGHTING PLANS.

FAN SCHEDULE													
MARK	MANUFACTURER	MODEL	TYPE	SPACE SERVED	CFM	EXTERNAL STATIC PRESSURE	MOTOR HP	FAN RPM	MOTOR RPM	DRIVE TYPE	CONFIGURATION	VOLTAGE/PHASE	REMARKS
EF-1	COOK	48A108	PROPELLER	EXISTING GYM 101	20500	0.30' W.C.	3	613	1725	BELT	SIDEWALL	208/3	1-3

**REMARKS**  
1. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.  
2. PROVIDE WITH MANUFACTURER'S WALL COLLAR, WIREGUARD (MOTOR SIDE), 120V MOTORIZED SHUTTER, AND WEATHER HOOD.  
3. FAN OPERATION TO BE CONTROLLED BY WALL-MOUNTED MANUAL MOTOR STARTER.

ENERGY RECOVERY VENTILATOR UNIT SCHEDULE																					
MARK	MANUF.	MODEL	SUPPLY FAN				EXHAUST FAN				SUMMER WHEEL PERFORMANCE			WINTER WHEEL PERFORMANCE			ELECTRICAL		REMARKS		
			EQUIPMENT DESIGN CFM	E.S.P. (IN-WG)	MOTORS BHP	HP	EQUIPMENT DESIGN CFM	E.S.P. (IN-WG)	MOTORS BHP	HP	AMBIENT DB/WB	R.A. DB/WB	WHEEL L.A.T. DB/WB	AMBIENT DB/WB	R.A. DB/WB	WHEEL L.A.T. DB/WB	VOLTAGE	PHASE		MCA (A)	MOCP (A)
ERV-5	SEMCO	SP-2200	1215	0.30	0.65	0.75	1215	0.30	0.60	0.75	95.0/78.2	74.2/66.4	80.8/69.6	25.0/21.0	72.0/55.8	60.5/46.4	208	3	8.5	15.0	1-5

**REMARKS**  
1. PROVIDE DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION.  
2. UNIT DESIGNED TO ATTACH TO BASIS OF DESIGN ROOFTOP UNIT. PROVIDE MANUFACTURER'S ADJUSTABLE PEDESTAL SUPPORT FOR UNIT INSTALLATION AND ADAPTOR PLATE FOR ATTACHMENT TO RTU.  
3. UNIT TO BE INSTALLED WITH RTU-5.  
4. PROVIDE MANUFACTURER'S MOTORIZED OUTDOOR AIR DAMPER CONTROL, FLOW MEASURING SYSTEM AND ROTATION DETECTOR SENSOR.  
5. UNIT SHALL BE CONTROLLED BY TIMECLOCK PROVIDED BY DIVISION 26. TIMECLOCK SCHEDULING SHALL BE DETERMINED BY OWNER.

ROOF TOP UNIT SCHEDULE																										
MARK	MANUFACTURER	MODEL	SUPPLY FAN				DX COOLING							ELECTRIC HEATING					ELECTRICAL			UNIT WEIGHT (LBS)	REMARKS			
			SUPPLY CFM	O/A CFM	S.P.	MOTOR HP	E.A.T. (DB/WB)	L.A.T. (DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AMBIENT TEMP	REFRIGERANT	EER (SEER)	COMPRESSOR TYPE	COMPRESSOR QUANTITY	HEAT E.A.T.	HEAT L.A.T.	INPUT (KW)	UNIT MCA (AMP)	UNIT MOCP (AMP)	VOLTAGE/PHASE					
RTU-4	TRANE	TSC060	1600	300	0.50	1.0	79.6/66.9	57.3/56.2	89.2	57.0	95.0	R-410A	12.0	SCROLL	1	61.6	85.2	12.0	39.9	40.0	208/3	730	1-6, 8-15			
RTU-5	TRANE	THC092	2440	1215	0.50	1.0	78.5/68.0	57.9/56.7	89.2	57.0	95.0	R-410A	12.6	SCROLL	2	61.5	84.7	18.0	57.5	60.0	208/3	1230	1-15			

**REMARKS**  
1. PROVIDE MANUFACTURER'S DISCONNECT SWITCH.  
2. PROVIDE ROOF CURB, 14" MIN HEIGHT.  
3. PROVIDE WITH COMPARATIVE ENTHALPY ECONOMIZER INCLUDING MOTORIZED DAMPERS.  
4. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER.  
5. PROVIDE WITH BAROMETRIC RELIEF DAMPER.  
6. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPERS.  
7. PROVIDE WITH DEHUMIDIFICATION CONTROL PACKAGE INCLUDING HOT GAS REHEAT.  
8. PROVIDE WITH RELIABLE MICROPROCESSOR CONTROLLER OR EQUAL IF NOT UNIT THAT IS THE BASIS OF DESIGN.  
9. PROVIDE WITH PHASE MONITORING PROTECTION.  
10. PROVIDE WITH SINGLE POINT THROUGH THE BASE POWER CONNECTION.  
11. PROVIDE WITH CONDENSATE OVERFLOW SWITCH.  
12. PROVIDE WITH HINGED ACCESS DOORS.  
13. PROVIDE WITH STAINLESS STEEL DRAIN PAN.  
14. PROVIDE WITH CLOGGED FILTER/FAN FAILURE SWITCH.  
15. PROVIDE WITH 2" PLEATED MERV 8 FILTERS.

ROOF TOP UNIT WITH ENERGY WHEEL SCHEDULE																																														
MARK	MANUFACTURER	MODEL	SUPPLY FAN						EXHAUST FAN						DX COOLING						ELECTRIC HEATING				ENERGY WHEEL					ELECTRICAL					REMARKS											
			MIN. SUPPLY CFM	MAX. SUPPLY CFM	MIN. O/A CFM	MAX. O/A CFM	E.S.P.	FAN RPM	OPERATING HP	MOTOR HP	EXHAUST CFM	ECONOMIZER CFM	E.S.P.	FAN RPM	OPERATING HP	MOTOR HP	E.A.T. (DB/WB)	COIL L.A.T. (DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AMBIENT TEMP	REFRIGERANT	EER (SEER)	COMPRESSOR QUANTITY	HEAT E.A.T.	HEAT L.A.T.	INPUT (KW)	HEATER QTY.	SUPPLY EAT (DB/WB)	SUPPLY LAT (DB/WB)	E/A EAT (DB/WB)	E/A LAT (DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)		SUPPLY EAT (DB/WB)	SUPPLY LAT (DB/WB)	EXHAUST EAT (DB/WB)	EXHAUST LAT (DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	UNIT MCA (AMP)	UNIT MOCP (AMP)	VOLTAGE/PHASE	UNIT WEIGHT (LBS)	
			RTU-1	AAON	RNA-016	3200	6400	180	1800	1.00	1368	4.5	7.5	1800	4400	0.50	1554	3.10	5.0	77.9/66.8	57.8/56.8	194.7	136.3	95.0	R-410A	11.7	2	67.5	97.2	60.1	8	1800	95.0/78.2	80.1/68.9		77.0/66.0	91.9/75.9	69.5	29.7	25.0/21.0	62.0/52.3	69.6/58.0	32.4/30.1	113.9	72.1	219
RTU-2	AAON	RNA-016	3200	6400	180	1800	1.00	1368	4.5	7.5	1800	4400	0.50	1554	3.10	5.0	77.9/66.8	57.8/56.8	194.7	136.3	95.0	R-410A	11.7	2	67.5	97.2	60.1	8	1800	95.0/78.2	80.1/68.9	77.0/66.0	91.9/75.9	69.5	29.7	25.0/21.0	62.0/52.3	69.6/58.0	32.4/30.1	113.9	72.1	219	225	208/3	3930	1.3-8.10
RTU-3	AAON	RN-009	1975	1975	1975	1975	1.00	2050	1.3	2.0	1975	-	0.70	1327	0.93	2.0	81.6/69.9	55.0/54.2	94.5	55.3	95.0	R-410A	12.6	2	56.1	92.1	22.5	3	1975	95.0/78.2	81.6/69.9	76.0/65.0	89.4/74.1	68.3	29.3	25.0/21.0	56.1/49.0	69.0/59.0	37.9/35.9	109.6	66.5	98	100	208/3	2270	1.4, 6, 7, 9, 10
RTU-6	AAON	RNA-030	4700	9400	340	3380	1.00	1632	13.2	15.0	3380	8500	0.50	1525	3.04	10.0	78.6/67.4	55.6/55.1	346.4	229.5	95.0	R-410A	10.8	2	65.6	85.9	60.1	8	3380	95.0/78.2	81.4/69.8	77.0/66.0	90.6/75.1	119.1	50.7	25.0/21.0	58.6/50.1	69.6/58.0	34.0/33.0	195.3	123.0	265	300	208/3	4325	1-8.10

**REMARKS**  
1. PROVIDE MANUFACTURER'S DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION.  
2. PROVIDE VIBRATION ISOLATION ROOF CURB, 14" MINIMUM HEIGHT. REFER TO SPECIFICATION SECTION 23 0548 FOR ADDITIONAL REQUIREMENTS.  
3. PROVIDE WITH DEMAND CONTROLLED VENTILATION CONTROL PACKAGE.  
4. PROVIDE WITH DEHUMIDIFICATION CONTROL PACKAGE INCLUDING HOT GAS REHEAT.  
5. PROVIDE WITH ENTHALPY ECONOMIZER.  
6. PROVIDE WITH FULLY MODULATING ELECTRIC HEAT.  
7. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER.  
8. PROVIDE WITH MANUFACTURER'S FACTORY MOUNTED AND WIRED INTEGRAL SMOKE DETECTOR.  
9. PROVIDE WITH MINIMUM 14" HIGH ROOF CURB.  
10. PROVIDE WITH MANUFACTURER'S VFDs FOR SUPPLY AND EXHAUST FANS.

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**GENERAL FIRE PROTECTION NOTES:**

- ALL EQUIPMENT AND MATERIAL CUT SHEETS MUST BE SUBMITTED FOR APPROVAL BY ENGINEER OF RECORD.
- THE FIRE SPRINKLER SYSTEM AND WET STANDPIPE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ADOPTED NFPA 13, AND NFPA 14. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.
- FIRE SPRINKLER CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS, CALCULATION AND MANUFACTURER'S LITERATURE CUT SHEETS ON ALL MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNERS REPRESENTATIVE. DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL FIRE SPRINKLER ENGINEER OR CONTRACTOR REGISTERED IN THE STATE OF SOUTH CAROLINA.
- SUBMIT DRAWINGS AND CALCULATIONS TO THE DEPARTMENT OF FIRE PREVENTION OF THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- IT IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS OUTSIDE AND WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.
- IT IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR TO REMOVE AND REPLACE ANY CEILINGS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS FOR PERFORMING NEW WORK WITHIN THE BUILDING. THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEM TO MATCH THE ORIGINAL INSTALLATION. ANY CEILING SYSTEM COMPONENT DAMAGED DURING STORAGE, OR REINSTALLATION SHALL BE REPLACED WITH NEW AT NO EXPENSE TO THE OWNER.
- ALL PIPING AND CONDUIT PENETRATIONS THRU FIRE RATED WALLS OR FLOORS SHALL BE PROVIDED WITH UL FIRE/SMOKE STOPPING.
- UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR TO PATCH AND FINISH ALL EXISTING PIPE PENETRATIONS AND TRENCHING THRU FLOOR AND WALLS. IN ADDITION, ALL NEW PENETRATIONS AND TRENCHING SHALL BE PROVIDED FOR INSTALLATION OF PLUMBING SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC.
- ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING SHALL BE CHROME-PLATED SEMI-RECESSED PENDANT TYPE WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.
- ALL SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILING SHALL BE BRASS UPRIGHT HEAD TYPE WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED AND PAINTED TO MATCH ADJOINING AREAS. DO NOT PAINT HEADS.
- THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK AND PLUMBING LINES. MAKE ANY MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.

**FIRE PROTECTION LEGEND**

- XX --- PIPING BELOW GRADE
- FP FIRE PROTECTION PIPING
- NEW PENDENT SPRINKLER HEAD
- NEW UPRIGHT SPRINKLER HEAD WITH GUARD
- ▽ NEW SIDEWALL DRY SPRINKLER HEAD

**SEISMIC DESIGN CRITERIA FOR NON-STRUCTURAL COMPONENTS**

SEISMIC DESIGN CATEGORY	D
BUILDING RISK CATEGORY	III
COMPONENT IMPORTANCE FACTOR (IP)	1.5
SEISMIC DESIGN REQUIREMENTS	SEE NOTE 1

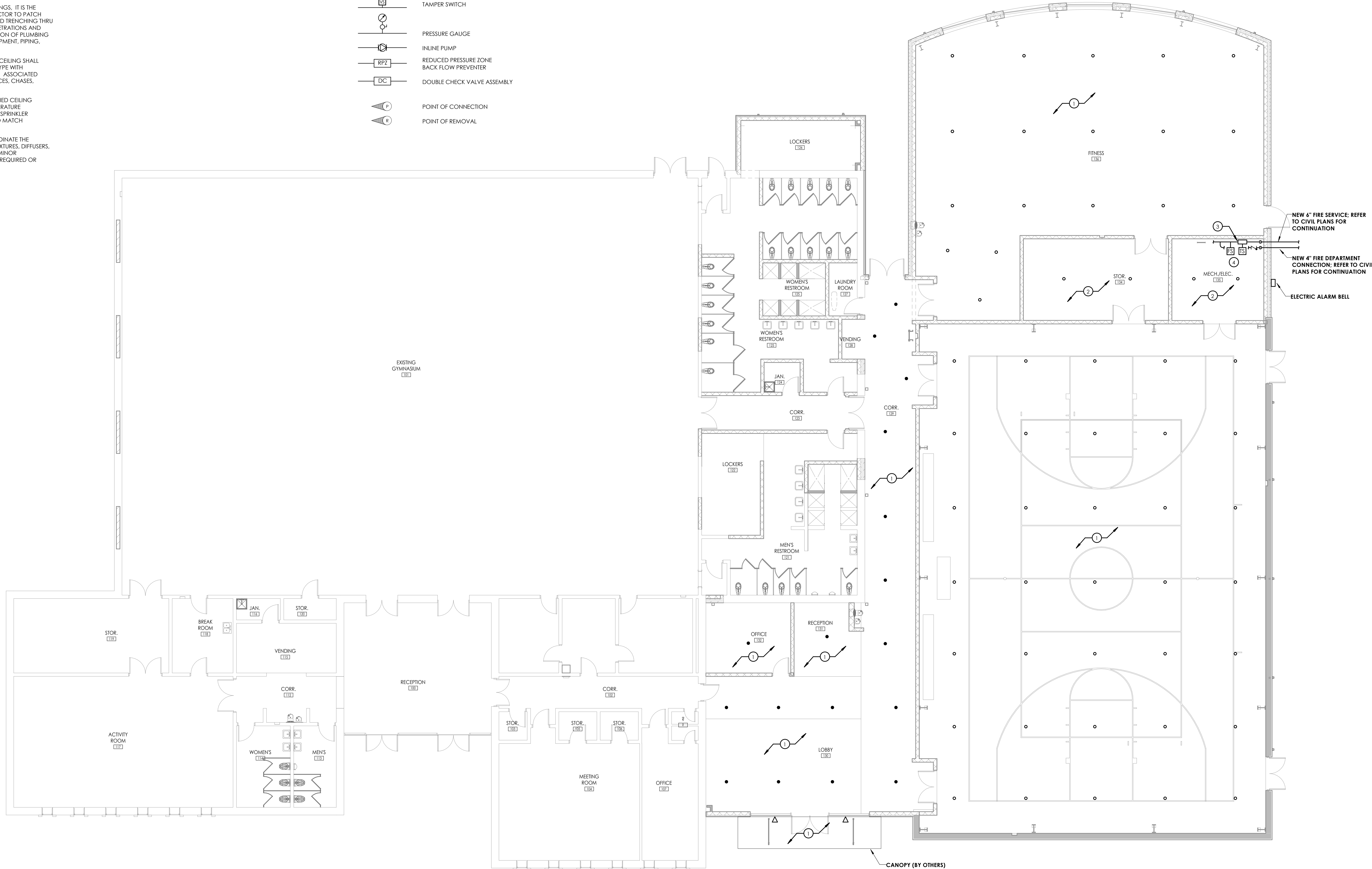
- NOTES:
- PROVIDE SEISMIC RESTRAINTS FOR FIRE PROTECTION SPRINKLER SYSTEM PER CODE REQUIREMENTS. REFER TO SPECIFICATION SECTION 210548 FOR ADDITIONAL REQUIREMENTS.

**FIXTURES & FITTINGS LEGEND**

- TEE OUTLET - UP
- TEE OUTLET - DOWN
- CONNECTION - BOTTOM
- CONNECTION - TOP
- ELBOW - TURNED UP
- ELBOW - TURNED DOWN
- PIPE CAP
- BALL VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- CONTROL VALVE, PNEUMATIC 2-WAY
- GATE VALVE
- GLOBE VALVE
- FLOW SWITCH
- TAMPER SWITCH
- PRESSURE GAUGE
- INLINE PUMP
- REDUCED PRESSURE ZONE BACK FLOW PREVENTER
- DOUBLE CHECK VALVE ASSEMBLY
- POINT OF CONNECTION
- POINT OF REMOVAL

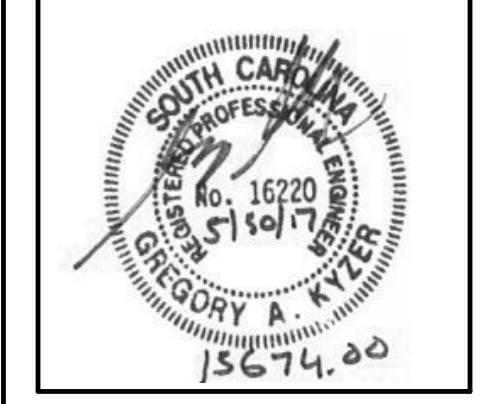
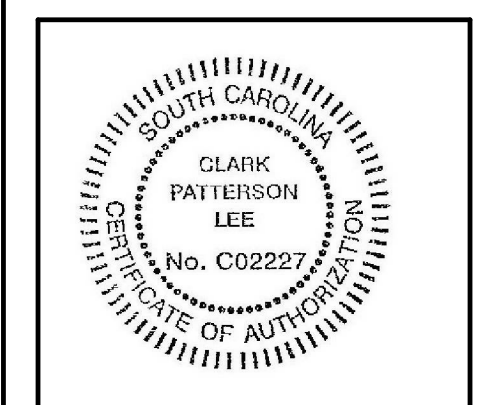
**KEY NOTES:**

- PROVIDE SPRINKLER HEADS FOR ROOM / CEILING LAYOUT. SPRINKLER COVERAGE SHALL BE LIGHT HAZARD (0.10 GPM/FT<sup>2</sup>).
- PROVIDE SPRINKLER HEADS FOR ROOM / CEILING LAYOUT. SPRINKLER COVERAGE SHALL BE ORDINARY HAZARD GROUP 1 (0.15 GPM/FT<sup>2</sup>).
- PROVIDE FIRE SPRINKLER RISER WITH ZONE VALVE, FLOW SWITCH AND TAMPER SWITCH. DIVISION 26 SHALL PROVIDE ALL FIRE ALARM TIE-INS. REFER TO CIVIL PLANS FOR EXACT ROUTING OF FIRE SERVICE MAIN TO BUILDING.
- COORDINATE ROUTING OF FIRE PIPING WITH ELECTRICAL PANELS TO ENSURE PIPING IS NOT ROUTED ABOVE ELECTRICAL EQUIPMENT. MAINTAIN NEC AND CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL PANELS.



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NO.	DATE	BY	CHKD	DESCRIPTION



COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	AMT	GAK
SCALE	As indicated	
SHEET TITLE		
FIRE PROTECTION - GROUND FLOOR WORK PLAN		

PROJECT NUMBER:  
13674.00

**CC**  
FP200

DRAWING NUMBER

**1 FIRE PROTECTION - GROUND FLOOR NEW WORK PLAN**  
1/8" = 1'-0"

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PLUMBING EQUIPMENT & FIXTURE SCHEDULE									
MARK	FIXTURE	CW	HW	SAN	V	CA	DESCRIPTION	MODEL NUMBER	REMARKS
WC-1	WATER CLOSET, ACCESSIBLE	1"	-	3"	2"	-	FLOOR MOUNT WATER CLOSET, ELONGATED BOWL MANUAL FLUSH VALVE, INSTALLED AT ACCESSIBLE HEIGHT, 1.6 GPF, WITH OPEN FRONT SEAT	ZURN # Z5445-BWL1, MANUAL FLUSHMETER (FV-1) ZURN # Z6000AV-WS1	1
WC-2	WATER CLOSET	1"	-	3"	2"	-	FLOOR MOUNT WATER CLOSET, ELONGATED BOWL MANUAL FLUSH VALVE, INSTALLED AT NON-ACCESSIBLE HEIGHT, 1.6 GPF WITH OPEN FRONT SEAT	ZURN # Z5455-BWL1, MANUAL FLUSHMETER (FV-1) ZURN # Z6000AV-WS1	
UR-1	URINAL, ACCESSIBLE	3/4"	-	2"	2"	-	WALL MOUNT URINAL, MANUAL FLUSH VALVE, TOP SPUD, 1.0 GPF, PROVIDE WALL MOUNT CARRIER	ZURN # Z5755-U, MANUAL FLUSHMETER (FV-2) ZURN # Z6000AV-WS1	1
UR-2	URINAL	3/4"	-	2"	2"	-	WALL MOUNT URINAL, MANUAL FLUSH VALVE, TOP SPUD, 1.0 GPF, PROVIDE WALL HUNG CARRIER	ZURN # Z5755-U, MANUAL FLUSHMETER (FV-2) ZURN # Z6000AV-WS1	
LAV-1	LAVATORY, ACCESSIBLE	1/2"	1/2"	1 1/2"	1 1/2"	-	UNDERMOUNT LAVATORY, 19" x 14" x 5" DEPTH, WITH MANUAL FAUCET, 0.5GPM, WITH GRID STRAINER, ADA OFFSET TRAP, SUPPLIES AND STOPS TO SUIT.	ZURN # Z5220 FAUCET ZURN # 81000-XL-3M W/ THERMAL MIXING VALVE (TMV-2)	1
LAV-2	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	-	WALL HUNG LAVATORY, CONCEALED ARM CARRIER, 20" x 18", 4" CENTERSET HOLES, WITH MANUAL FAUCET, 0.5 GPM, MOUNTED AT ACCESSIBLE HEIGHT, GRID STRAINER, STOPS, ADA OFFSET TRAP, TRAPS AND SUPPLIES INSULATED WITH TRUBRO BRAND HANDI-LAV GUARD, PROVIDE WALL HUNG CARRIER	ZURN # Z5340 FAUCET ZURN # Z81000-XL-3M W/ THERMAL MIXING VALVE (TMV-2)	
MR-1	MOP RECEPTOR	3/4"	3/4"	3"	2"	-	24"X24"X12" FLOOR MOP SINK TERRAZZO, STAINLESS STEEL CAP, WALL GUARDS, WALL MOUNTED FAUCET AND MOP BRACKET, PROVIDE HOSE CONNECTION VACUUM BREAKER (BFP) AS PER ASSE 1011.	FIAT # T58 3000-MSG FIAT # 830-AA FIAT # 832-AA WATTS # 8A	2
SH-1	SHOWER, ACCESSIBLE	1/2"	1/2"	-	-	-	SINGLE HANDLE BALANCING MIXING SHOWER UNIT WITH HAND/WALL SHOWER HEAD, INSTALL PER ADA REQUIREMENTS.	ZURN # Z7120-SS-LH-HW	1
SH-2	SHOWER	1/2"	1/2"	-	-	-	SINGLE HANDLE BALANCING MIXING SHOWER UNIT WITH STANDARD SHOWER HEAD.	ZURN # Z7120-SS-LH	
EW-C-1	HI-LO WATER COOLER ACCESSIBLE	1/2"	-	1 1/2"	1 1/2"	-	BI-LEVEL ELECTRIC WATER COOLER, NO LEAD, 8.0 GPM, REINFORCED WALL MOUNTED, 115V, 60HZ, 4.0 FLA, 370 W	EKAY # EZ0818C STAINLESS STEEL SHROUDS	1
BFS-1	BOTTLE FILLING STATION / HI-LO WATER COOLER ACCESSIBLE	1/2"	-	1 1/2"	1 1/2"	-	BOTTLE FILLING STATION AND BI-LEVEL ELECTRIC WATER COOLER, NO LEAD, 8.0 GPM, REINFORCED WALL MOUNTED, 115V, 60HZ, 4.0 FLA, 370 W	EKAY E2H20 SYSTEM #L215LBWS STAINLESS STEEL SHROUDS	1
FD-1	FLOOR DRAIN	-	-	3"	2"	-	FLOOR DRAIN, 5" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY, DEEP SEAL P TRAP AND TRAP PRIMER CONNECTION	ZURN # ZN-415-ZB-P (1/2")	2
TMV-1	THERMOSTATIC HIGH-LOW MIXING VALVE	3/4"	3/4"	-	-	-	THERMOSTATIC HI-LOW MASTER MIXING VALVE, LEAD FREE BRASS DESIGN, OUTLET TEMPERATURE SET POINT 120 DEGREES, 3/4" CW/HW/HWR INLETS, 1" TEMPERED WATER OUTLET, 28.5 GPM AT 20 PSI PRESSURE DROP, SURFACE MOUNTED CABINET, AND INTEGRAL INLET/OUTLET VALVES; ASSE 1017 COMPLIANT.	BRADLEY # 559-3045-B-P-SE	
TMV-2	THERMOSTATIC MIXING VALVE FOR HAND WASHING	1/2"	1/2"	-	-	-	POINT OF USE MIXING VALVE, LEAD FREE BRASS DESIGN, OUTLET TEMP. OUTLET TEMP. SET POINT 105 DEGREES, 1/2" CW/HW INLET, 1/2" TEMPERED WATER OUTLET, ASSE 1070 COMPLIANT.	WATTS #LFMMV-UT-M1	
TP-1	TRAP PRIMER VALVE	1/2"	-	-	-	-	PRESSURE DROP ACTIVATED TRAP SEAL PRIMER, 1/2" INLET/OUTLET, PRIMES UP TO 3 DRAINS, PROVIDE MI-GAP AIR GAP FITTING.	MIFAB # M2-500	
WB-1	WASHING MACHINE OUTLET BOX	1/2"	1/2"	-	-	-	WASHING MACHINE OUTLET BOX, CW/HW SUPPLY VALVES, MINI-RESTER WATER HAMMER ARRESTERS, WITH 2" DRAIN CONNECTION, INSTALL PER MANUFACTURER'S CONNECTION REQUIREMENTS.	SIOUX CHIEF WASHING MACHINE OUTLET BOX # 696 SERIES	
WHA	WATER HAMMER ARRESTOR	-	-	-	-	-	PISTON TYPE WATER HAMMER ARRESTOR, TYPE L COPPER TUBE, ANSI/ASSE 1010 CERTIFIED.	SIOUX CHIEF MODEL # 650 SERIES	
FPWH-1	FREEZE PROOF WALL HYDRANT	3/4"	-	-	-	-	KEY OPERATED, NON-FREEZE, CONCEALED OUTLET, FLUSH MOUNTED BOX WITH COVER, INTERGAL VACUUM BREAKER WITH HOSE CONNECTION AS PER ASSE 1011.	WOODFORD # 845	

**REMARKS**  
1. ALL ACCESSIBLE EQUIPMENT/FIXTURES TO BE INSTALLED PER ADA REQUIREMENTS.  
2. SIZED PER PLAN.

**GENERAL PLUMBING EQUIPMENT & FIXTURE COMMENT**

A. PLUMBING CONTRACTOR SHALL PROVIDE ALL RISERS, CARRIERS, P-TRAPS, STOPS, STRAINERS, TAIL PIECES, DRAINS, ETC., REQUIRED TO FACILITATE COMPLETE INSTALLATION OF ALL SCHEDULED EQUIPMENT.

ELECTRIC WATER HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL	ELECT.	INPUT (KW)	AMPS	GALS STORAGE	1ST HR. GPH	GPH @ 100° F TEMP. RISE	COLD/HOT WATER CONNECTIONS	REMARKS
EW-1	A.O. SMITH	DVE-250-180	208V/3PH	180.0	499	250	886	686	1-1/2"	1-2

**REMARKS:**  
1. PROVIDE 4" CONCRETE HOUSEKEEPING PAD.  
2. PROVIDE WITH DISCONNECT SWITCH.

HOT WATER RECIRCULATION PUMP SCHEDULE											
MARK	LOCATION	ARRANGEMENT	GPM	HEAD (TDH)	MOTOR			DESIGN EQUIPMENT	REMARKS		
					FLA	RPM	HP				
HWRP-1	MECH./ELEC. 135	IN-LINE PUMP	1.5	12.0	1.1	2950	125 WATTS	115	1	BELL & GOSSETT # NBF-33	1-2

**REMARKS:**  
1. PLACE RECIRCULATOR PUMP ON HOT WATER RECIRCULATION PIPING. REFER TO WATER HEATER DETAIL.  
2. PROVIDE WITH DISCONNECT SWITCH.

SEISMIC DESIGN CRITERIA FOR NON-STRUCTURAL COMPONENTS	
SEISMIC DESIGN CATEGORY	D
BUILDING RISK CATEGORY	III
COMPONENT IMPORTANCE FACTOR (IP)	1.0
SEISMIC DESIGN REQUIREMENTS	SEE NOTE 1

**NOTES:**  
1. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL PLUMBING COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ALL RESTRAINTS TO BE INSTALLED PER CODE REQUIREMENTS.

**PIPING LEGEND**

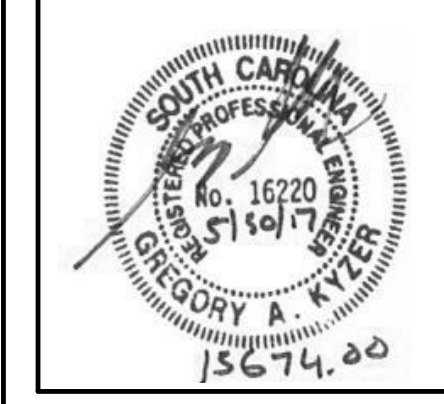
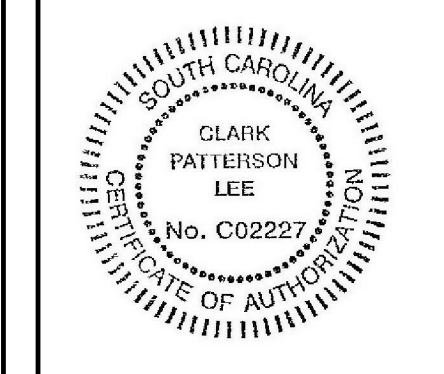
— XX —	PIPING
--- XX ---	PIPING BELOW GRADE
----- X -----	VENT PIPING
ACW	AUTOMATIC CLOTHES WASHER
CA	COMPRESSOR AIR
CW	COLD WATER
CW (E)	COLD WATER EXISTING
HW	HOT WATER
HW (E)	HOT WATER EXISTING
HWR	HOT WATER RECIRCULATING
HWR (E)	HOT WATER RECIRCULATING EXISTING
NG	NATURAL GAS
SPD	SUMP PUMPED DRAINAGE
SAN	SANITARY
SAN U/G	SANITARY UNDERGROUND
SAN (E)	SANITARY EXISTING
SAN U/G (E)	SANITARY UNDERGROUND EXISTING
ST	STORM
ST (E)	STORM EXISTING
ST2	STORM SECONDARY
ST2 (E)	STORM SECONDARY EXISTING
TW	TEMPERED WATER
V	VENT
V (E)	EXISTING VENT
ETR	EXISTING TO REMAIN
////	EXISTING TO BE REMOVED / DEMOLISHED

**FIXTURES & FITTINGS LEGEND**

	TEE OUTLET - UP
	TEE OUTLET - DOWN
	CONNECTION - BOTTOM
	CONNECTION - TOP
	ELBOW - TURNED UP
	ELBOW - TURNED DOWN
	PIPE CAP
	UNION
	FLANGE
	BALL VALVE
	BALL VALVE WITH MEMORY STOP
	BALANCING VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	CONTROL VALVE, PNEUMATIC 2-WAY
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	PRESSURE RELIEF VALVE
	TEMPERATURE-PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	COMBINATION VALVE (ISOLATION, CHECK, BALANCING)
	MOTOR OPERATED VALVE
	SOLENOID OPERATED VALVE
	GAS PRESSURE REGULATOR
	THERMOSTATIC MIXING VALVE
	HW RECIRC VALVES
	CLEAN OUT
	FLOOR CLEAN OUT / GRADE CLEAN OUT
	WALL CLEAN OUT
	HOSE BIBB
	NON FREEZE HOSE BIBB
	NON FREEZE WALL HYDRANT
	YARD HYDRANT
	HUB DRAIN
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK
	ROOF DRAIN
	DOWN SPOUT
	FLOW SWITCH
	PRESSURE SWITCH
	AQUASTAT
	PRESSURE GAUGE
	THERMOMETER
	STRAINER
	STRAINER WITH BLOWOFF
	VACUUM BREAKER
	INLINE PUMP
	WATER HAMMER ARRESTER
	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
	DOUBLE CHECK VALVE ASSEMBLY
	SHOWER HEAD
	POINT OF CONNECTION
	POINT OF REMOVAL

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NO.	DATE	BY	CHKD	DESCRIPTION



COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	AMT	GAK
SCALE 12" = 1'-0"		
SHEET TITLE		
PLUMBING SCHEDULES, LEGEND, & GENERAL NOTES		

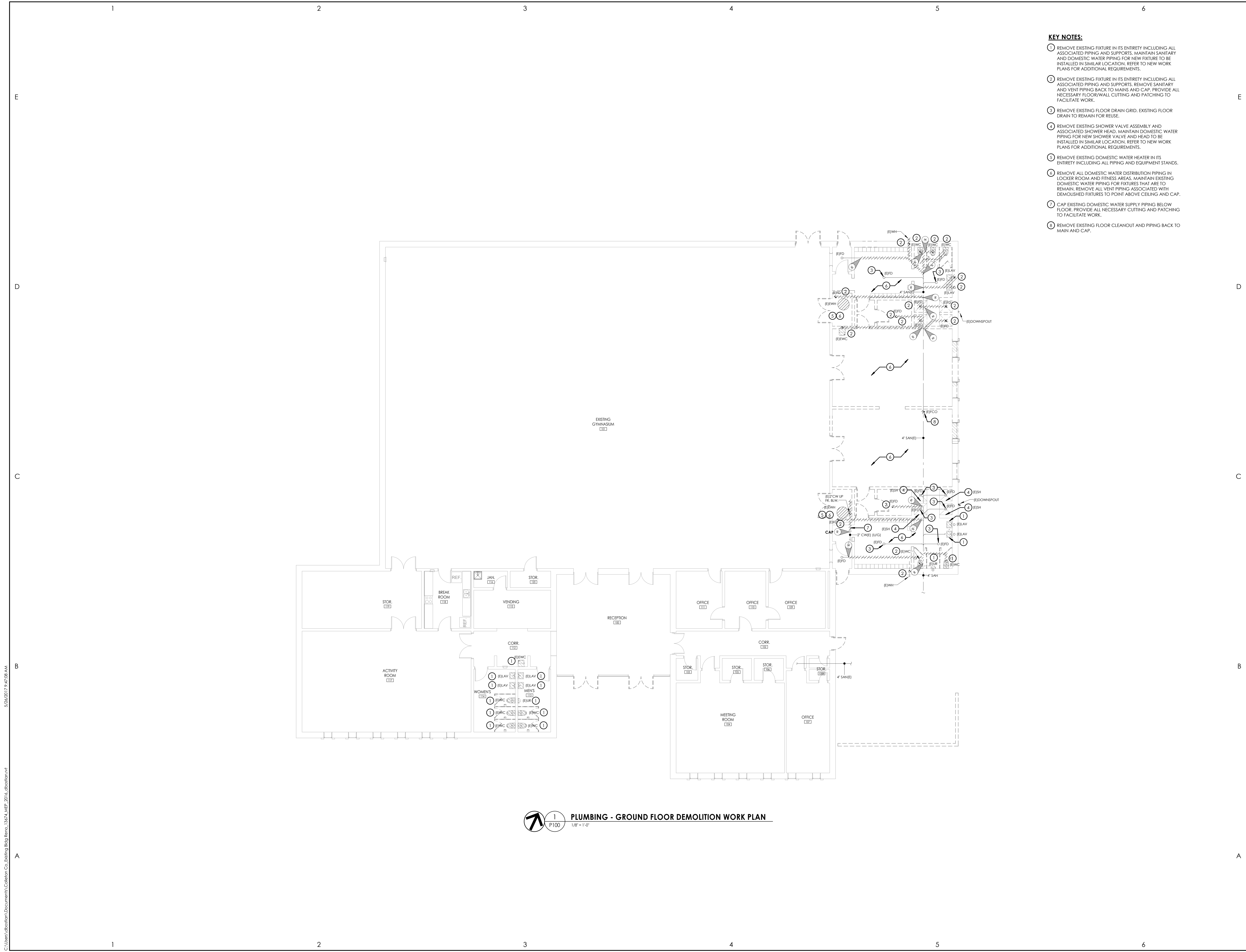
PROJECT NUMBER  
13674.00

**CC**  
**P000**

DRAWING NUMBER

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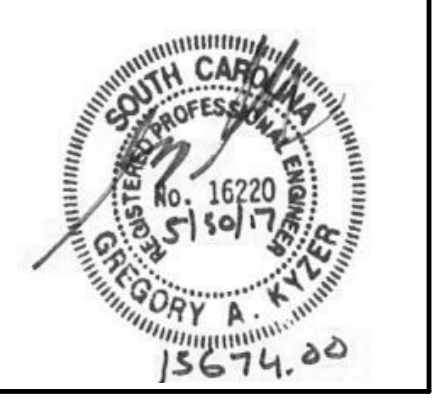
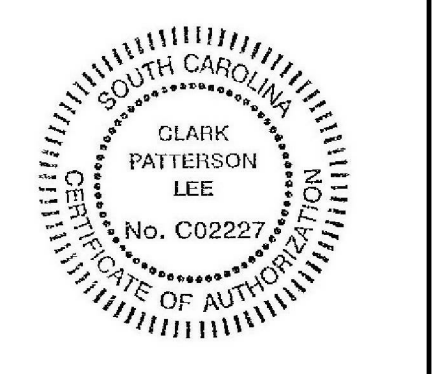


**KEY NOTES:**

- 1 REMOVE EXISTING FIXTURE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED PIPING AND SUPPORTS. MAINTAIN SANITARY AND DOMESTIC WATER PIPING FOR NEW FIXTURE TO BE INSTALLED IN SIMILAR LOCATION. REFER TO NEW WORK PLANS FOR ADDITIONAL REQUIREMENTS.
- 2 REMOVE EXISTING FIXTURE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED PIPING AND SUPPORTS. REMOVE SANITARY AND VENT PIPING BACK TO MAINS AND CAP. PROVIDE ALL NECESSARY FLOOR/WALL CUTTING AND PATCHING TO FACILITATE WORK.
- 3 REMOVE EXISTING FLOOR DRAIN GRID. EXISTING FLOOR DRAIN TO REMAIN FOR REUSE.
- 4 REMOVE EXISTING SHOWER VALVE ASSEMBLY AND ASSOCIATED SHOWER HEAD. MAINTAIN DOMESTIC WATER PIPING FOR NEW SHOWER VALVE AND HEAD TO BE INSTALLED IN SIMILAR LOCATION. REFER TO NEW WORK PLANS FOR ADDITIONAL REQUIREMENTS.
- 5 REMOVE EXISTING DOMESTIC WATER HEATER IN ITS ENTIRETY INCLUDING ALL PIPING AND EQUIPMENT STANDS.
- 6 REMOVE ALL DOMESTIC WATER DISTRIBUTION PIPING IN LOCKER ROOM AND FITNESS AREAS. MAINTAIN EXISTING DOMESTIC WATER PIPING FOR FIXTURES THAT ARE TO REMAIN. REMOVE ALL VENT PIPING ASSOCIATED WITH DEMOLISHED FIXTURES TO POINT ABOVE CEILING AND CAP.
- 7 CAP EXISTING DOMESTIC WATER SUPPLY PIPING BELOW FLOOR. PROVIDE ALL NECESSARY CUTTING AND PATCHING TO FACILITATE WORK.
- 8 REMOVE EXISTING FLOOR CLEANOUT AND PIPING BACK TO MAIN AND CAP.

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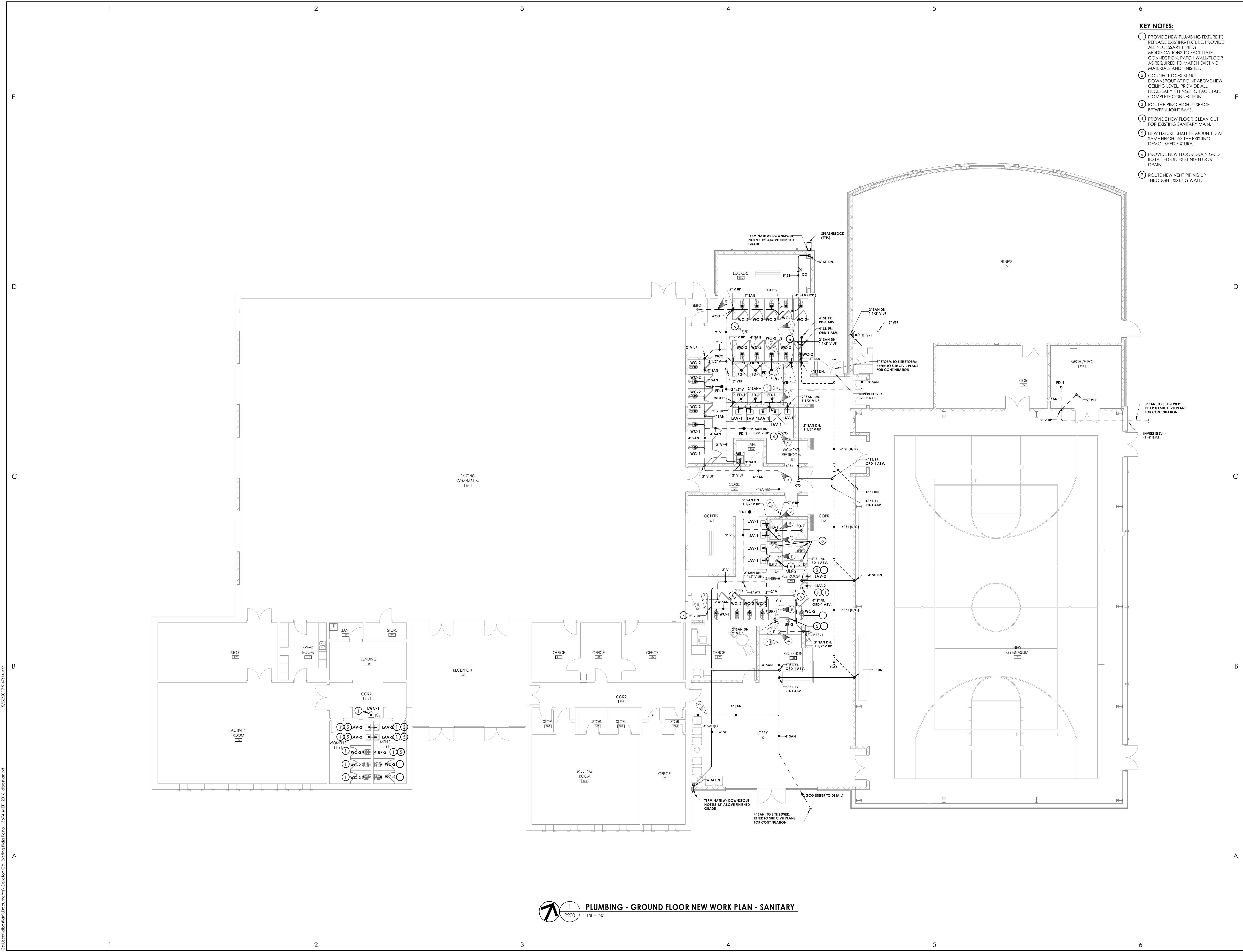
COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	AMT	GAK
SCALE	As indicated	
SHEET TITLE		
PLUMBING - GROUND FLOOR DEMOLITION WORK PLAN		

PROJECT NUMBER	13674.00
DRAWING NUMBER	CC P100

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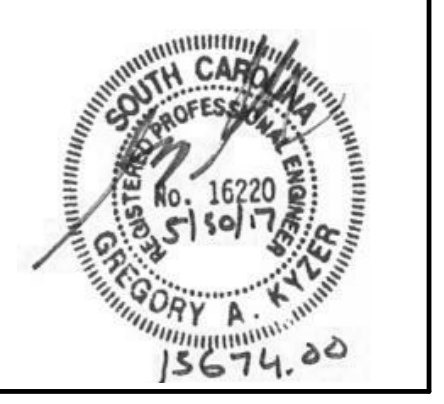
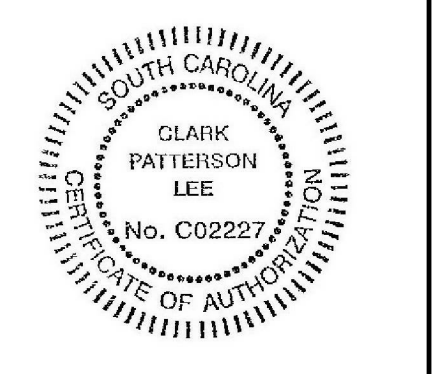


- KEY NOTES:**
- 1 PROVIDE NEW PLUMBING FIXTURE TO REPLACE EXISTING FIXTURE. PROVIDE ALL NECESSARY PIPING MODIFICATIONS TO FACILITATE CONNECTION. PATCH WALL/FLOOR AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.
  - 2 CONNECT TO EXISTING DOWNSPOUT AT POINT ABOVE NEW CEILING LEVEL. PROVIDE ALL NECESSARY FITTINGS TO FACILITATE COMPLETE CONNECTION.
  - 3 ROUTE PIPING HIGH IN SPACE BETWEEN JOINT BAYS.
  - 4 PROVIDE NEW FLOOR CLEAN OUT FOR EXISTING SANITARY MAIN.
  - 5 NEW FIXTURE SHALL BE MOUNTED AT SAME HEIGHT AS THE EXISTING DEMOLISHED FIXTURE.
  - 6 PROVIDE NEW FLOOR DRAIN GRID INSTALLED ON EXISTING FLOOR DRAIN.
  - 7 ROUTE NEW VENT PIPING UP THROUGH EXISTING WALL.

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280 RECREATION LN., WALTERBORO, SC 29488

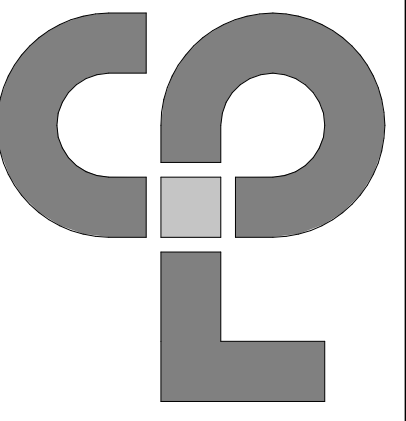
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05/30/17	AMT	GAK
SCALE	As indicated	
SHEET TITLE		
PLUMBING - GROUND FLOOR NEW WORK PLAN - SANITARY		

PROJECT NUMBER	13674.00
CC P200	
DRAWING NUMBER	

**1 PLUMBING - GROUND FLOOR NEW WORK PLAN - SANITARY**  
1/8" = 1'-0"

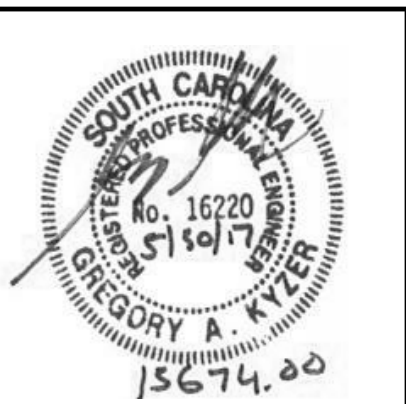
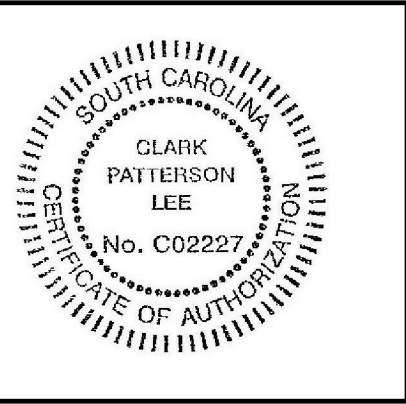
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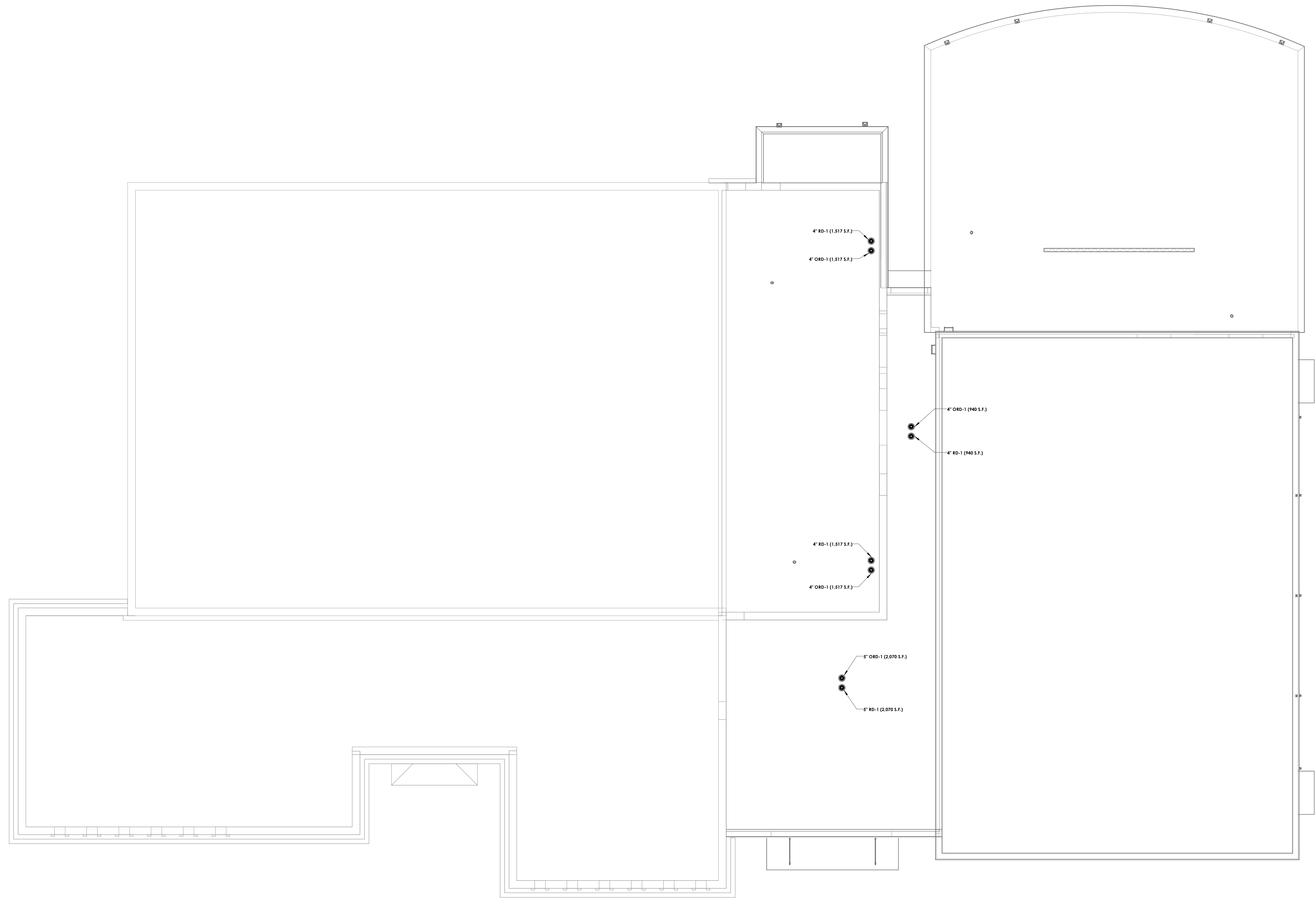
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COLLETON COUNTY  
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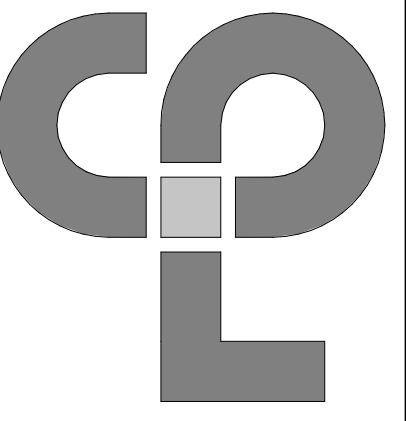
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05/30/17	AMT	GAK
SCALE 1/8" = 1'-0"		
SHEET TITLE		
PLUMBING - ROOF NEW WORK PLAN - SANITARY		

PROJECT NUMBER	13674.00
<b>CC</b>	<b>P201</b>
DRAWING NUMBER	



**1** PLUMBING - ROOF NEW WORK PLAN - SANITARY  
 P201 1/8" = 1'-0"

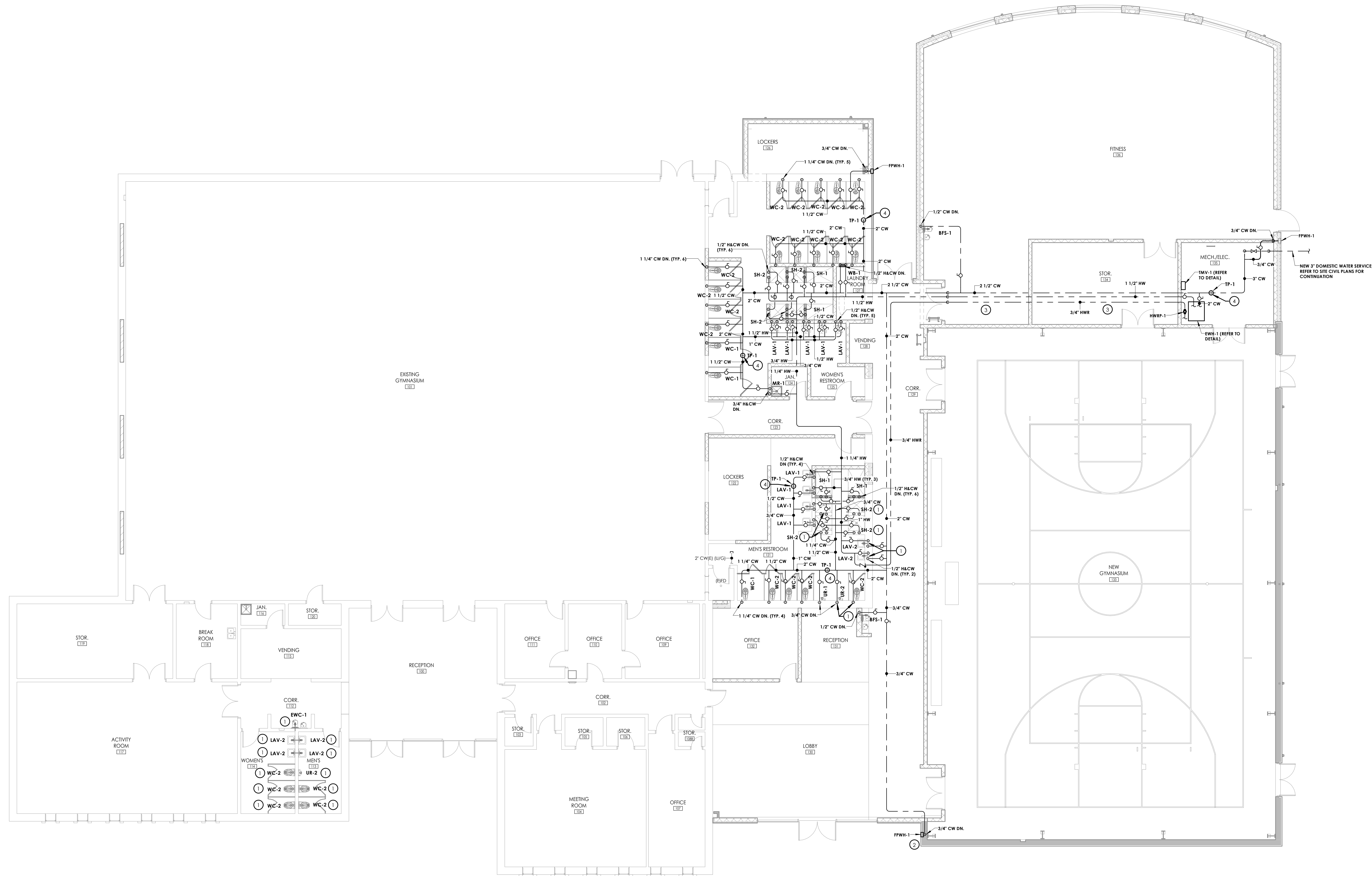
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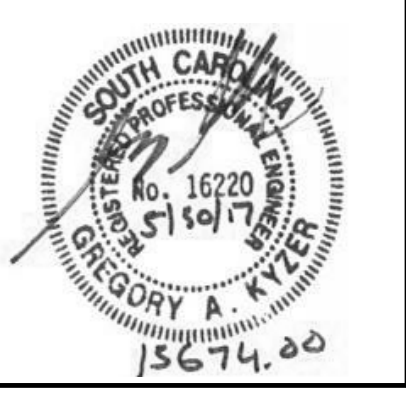
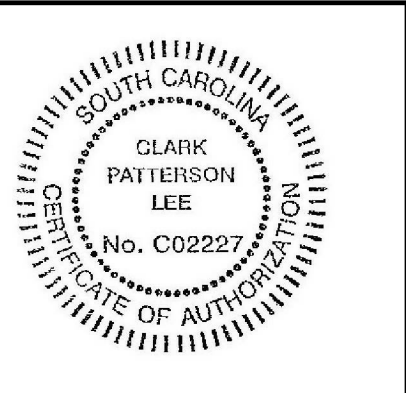
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**KEY NOTES:**

- 1 PROVIDE NEW PLUMBING FIXTURE TO REPLACE EXISTING FIXTURE. PROVIDE ALL NECESSARY PIPING MODIFICATIONS TO FACILITATE CONNECTION TO EXISTING CONCEALED PIPING. PATCH WALL/FLOOR AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.
- 2 ROUTE PIPING CONCEALED WITHIN WALL. PROVIDE ALL NECESSARY BLOCKING TO FACILITATE WALL HYDRANT CLAMP INSTALLATION.
- 3 ROUTE PIPING HIGH AND TIGHT TO UNDERSIDE OF STRUCTURE BETWEEN JOISTS.
- 4 PROVIDE 1/2" CW DN. CONCEALED WITHIN WALL AND BELOW FLOOR NEAREST FLOOR DRAIN(S).



NO.	DATE	BY	CHKD	DESCRIPTION



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 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO, SC 29488

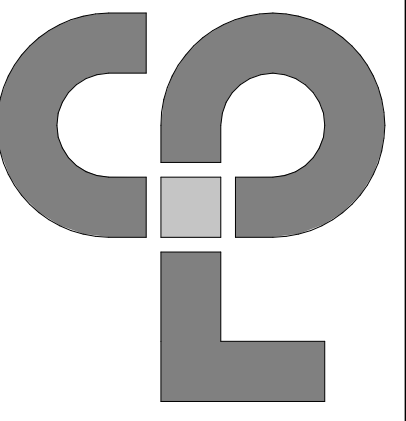
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05/30/17	AMT	GAK
SCALE	As indicated	
SHEET TITLE	PLUMBING - GROUND FLOOR NEW WORK PLAN - DOMESTIC WATER	

PROJECT NUMBER	13674.00
<b>CC</b>	<b>P300</b>
DRAWING NUMBER	

**1** PLUMBING - GROUND FLOOR NEW WORK PLAN - DOMESTIC WATER  
 1/8" = 1'-0"

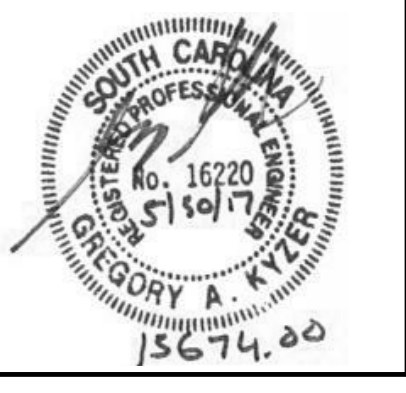
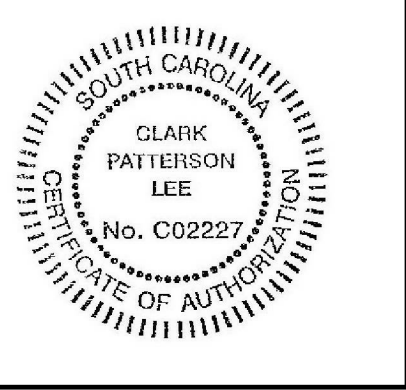
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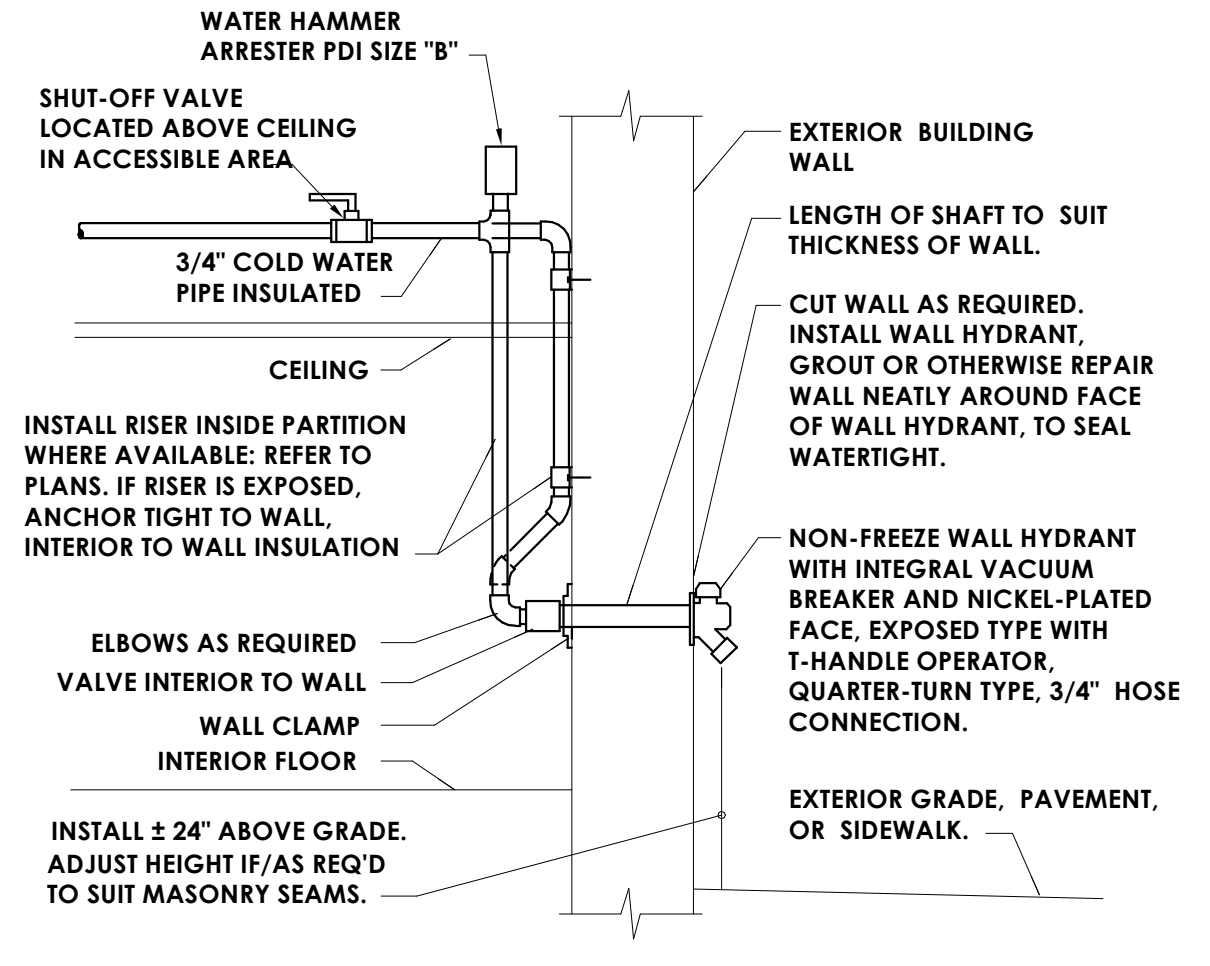
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280 RECREATION LN., WALTERBORO, SC 29488

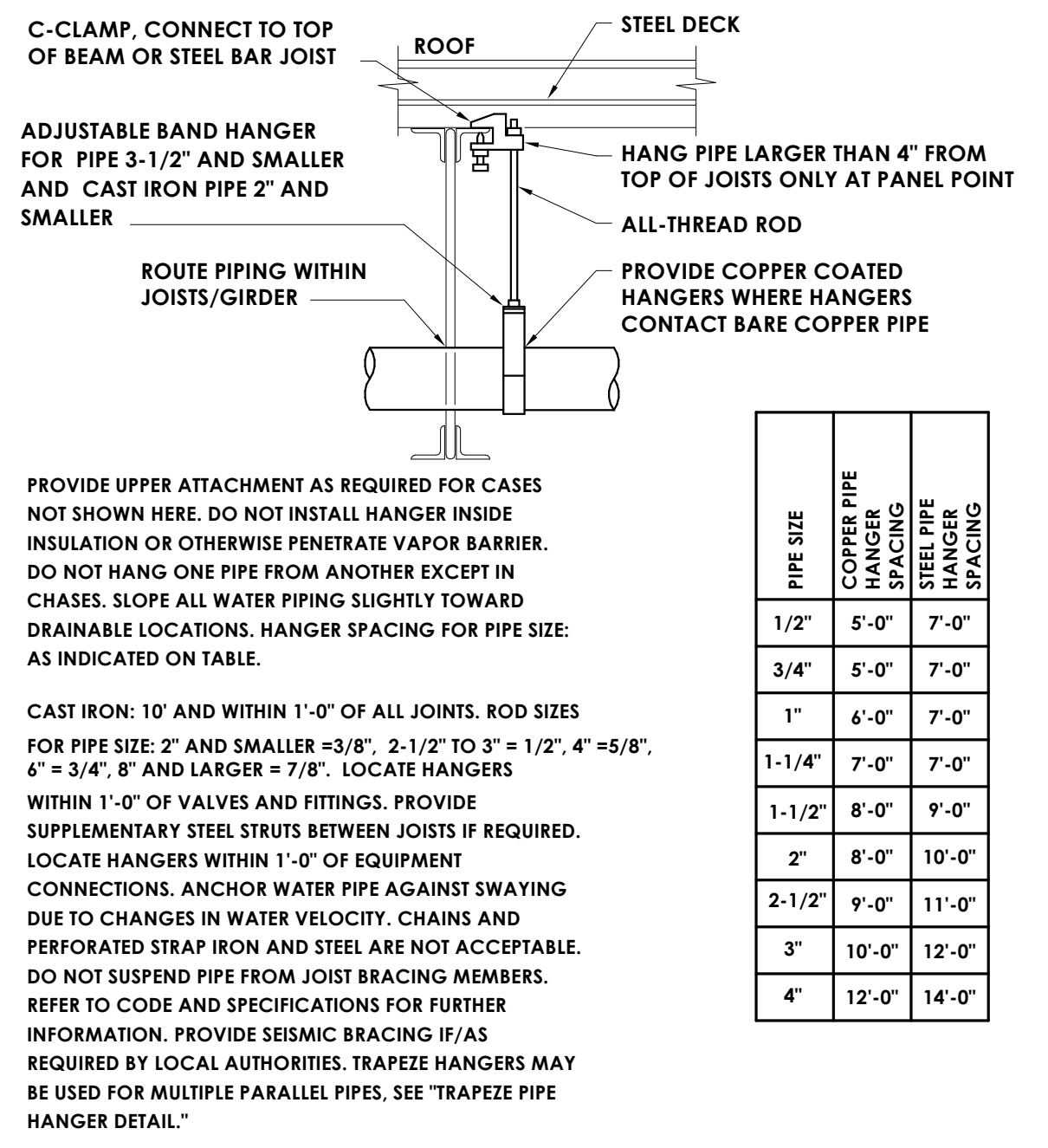
DATE: 05/30/17 DRAWN: AMT CHECKED: GAK  
SCALE: As indicated  
SHEET TITLE: PLUMBING DETAILS

PROJECT NUMBER: 13674.00  
CC  
P800  
DRAWING NUMBER

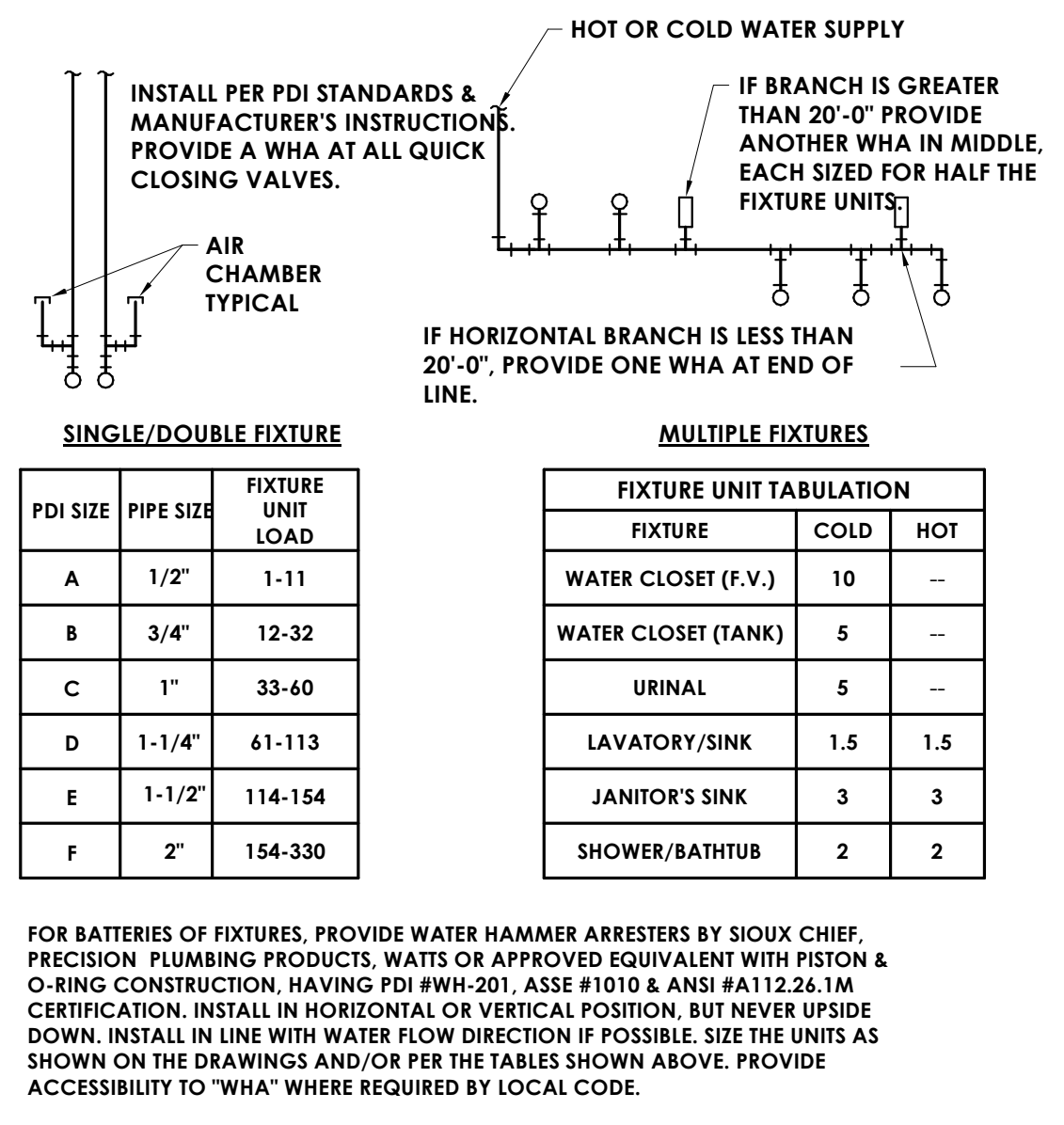


10 NON-FREEZE WALL HYDRANT DETAIL  
P800 NOT TO SCALE

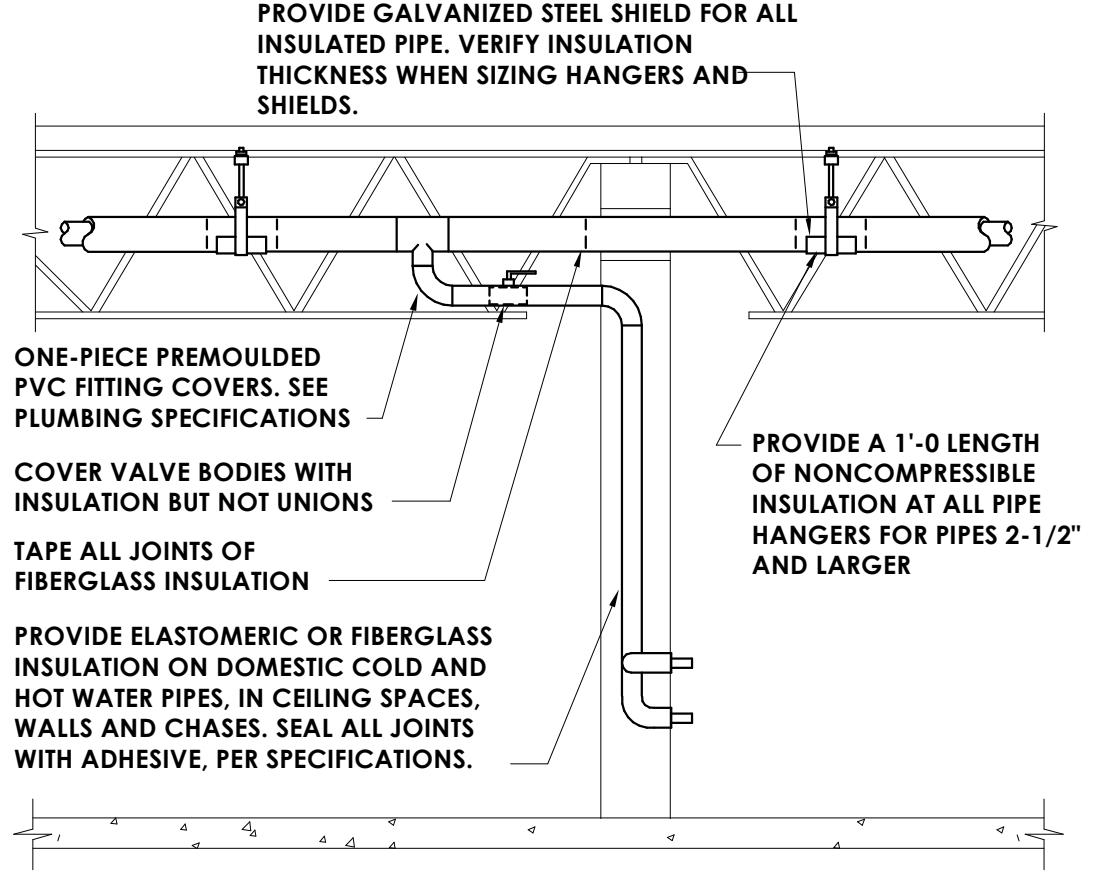
PIPE SIZE	COPPER PIPE HANGER SPACING	STEEL PIPE HANGER SPACING
1/2"	5'-0"	7'-0"
3/4"	5'-0"	7'-0"
1"	6'-0"	7'-0"
1-1/4"	7'-0"	7'-0"
1-1/2"	8'-0"	9'-0"
2"	8'-0"	10'-0"
2-1/2"	9'-0"	11'-0"
3"	10'-0"	12'-0"
4"	12'-0"	14'-0"



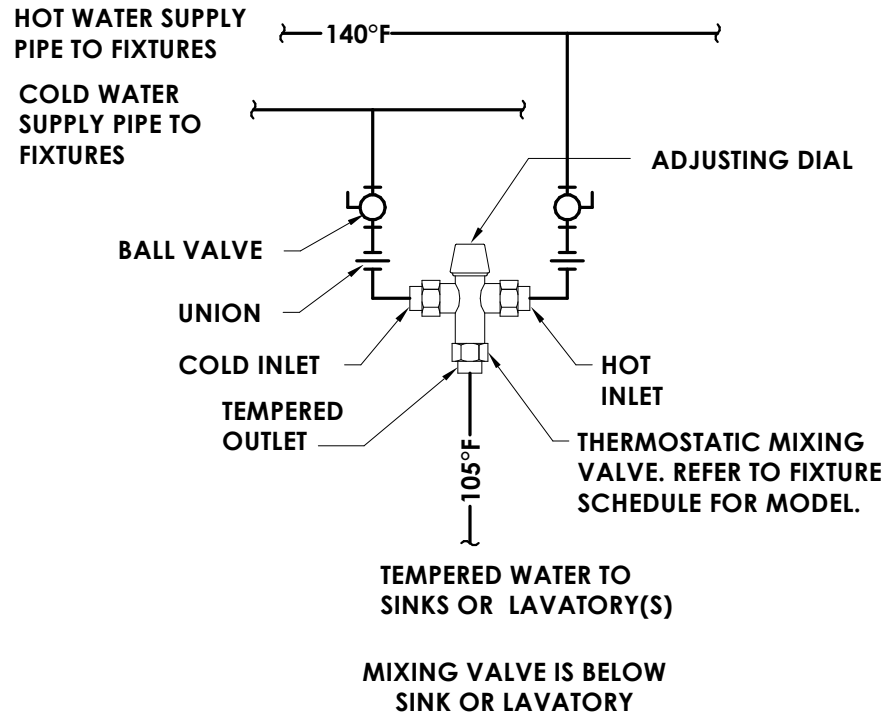
11 PIPE HANGER - BAR JOIST DETAIL  
P800 NOT TO SCALE



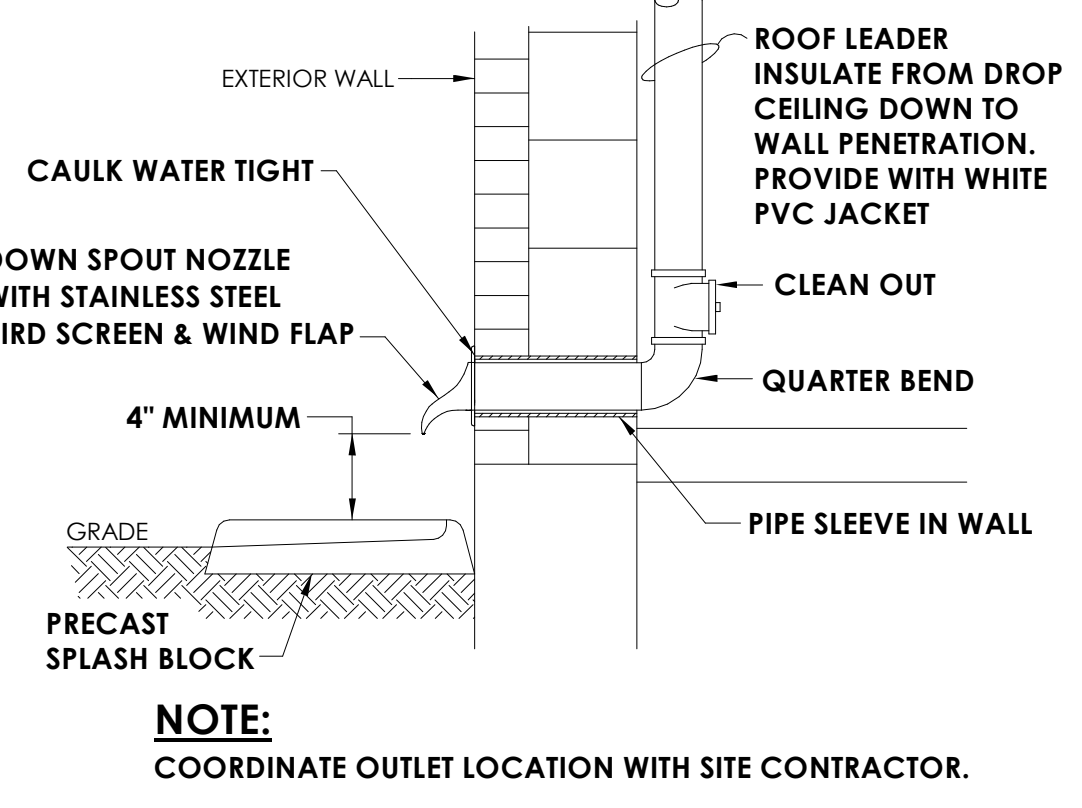
12 WATER HAMMER ARRESTERS DETAIL  
P800 NOT TO SCALE



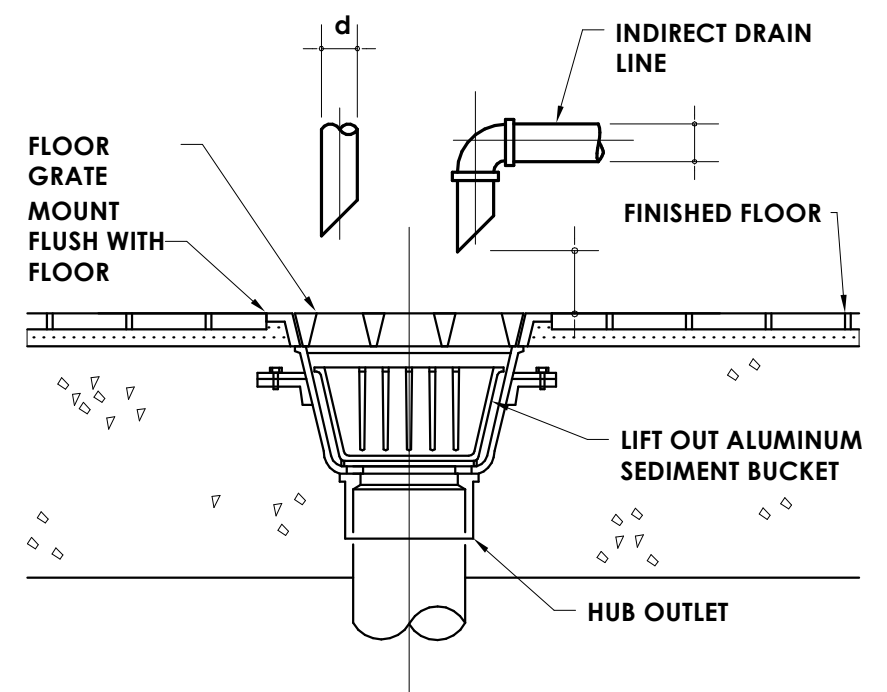
13 PIPE INSULATION - BAR JOIST DETAIL  
P800 NOT TO SCALE



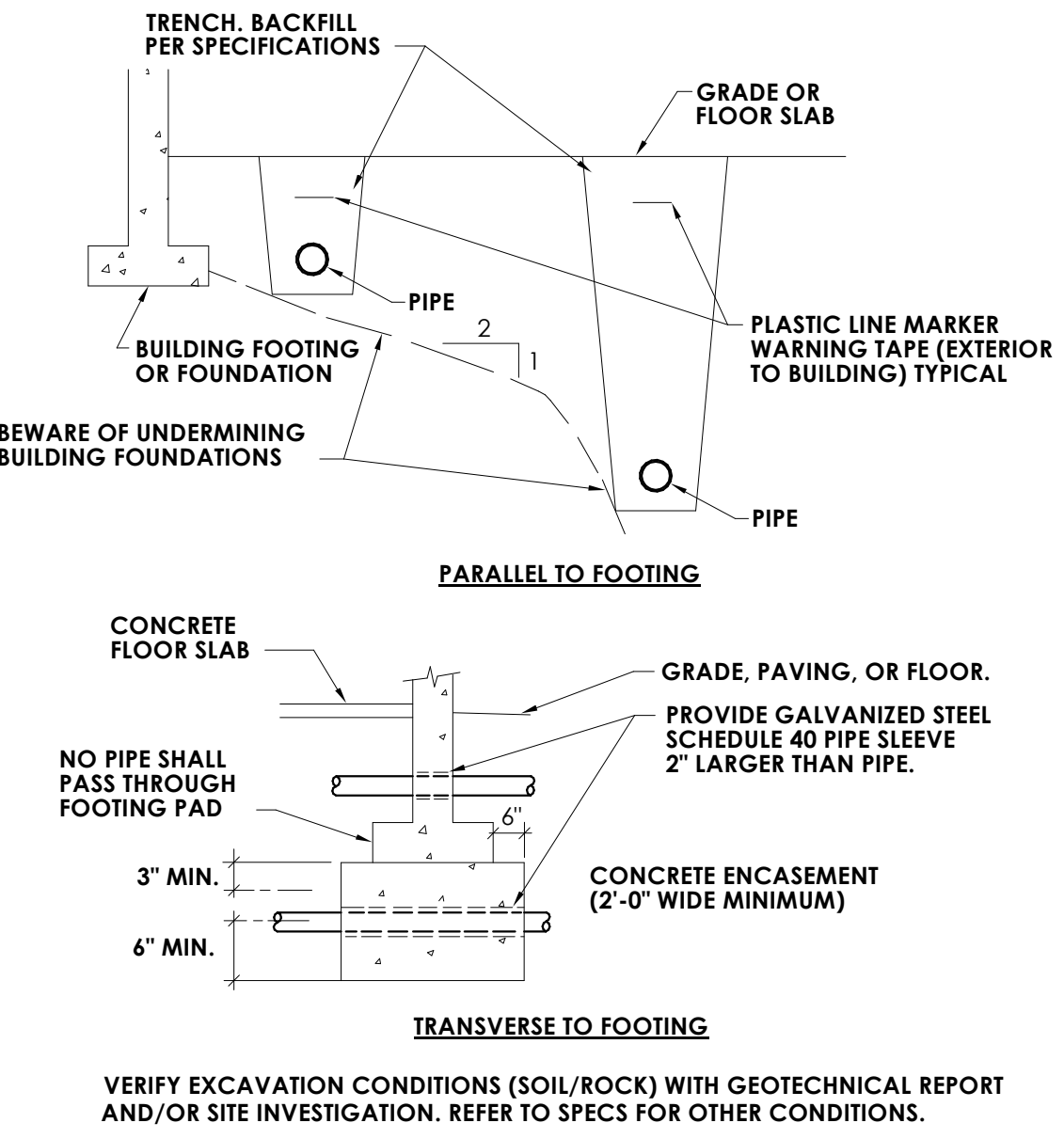
14 THERMOSTATIC MIXING VALVE (TMV-2) DETAIL  
P800 NOT TO SCALE



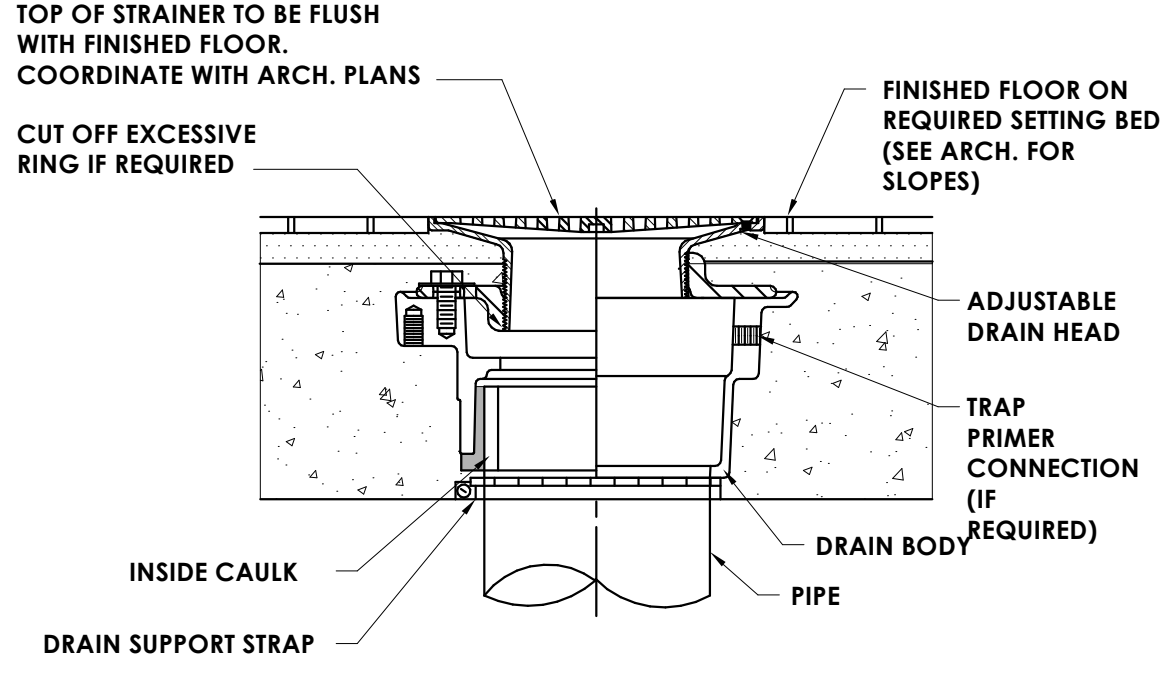
5 STORM PIPING OUTLET DETAIL  
P800 1 1/2" x 1'-0"



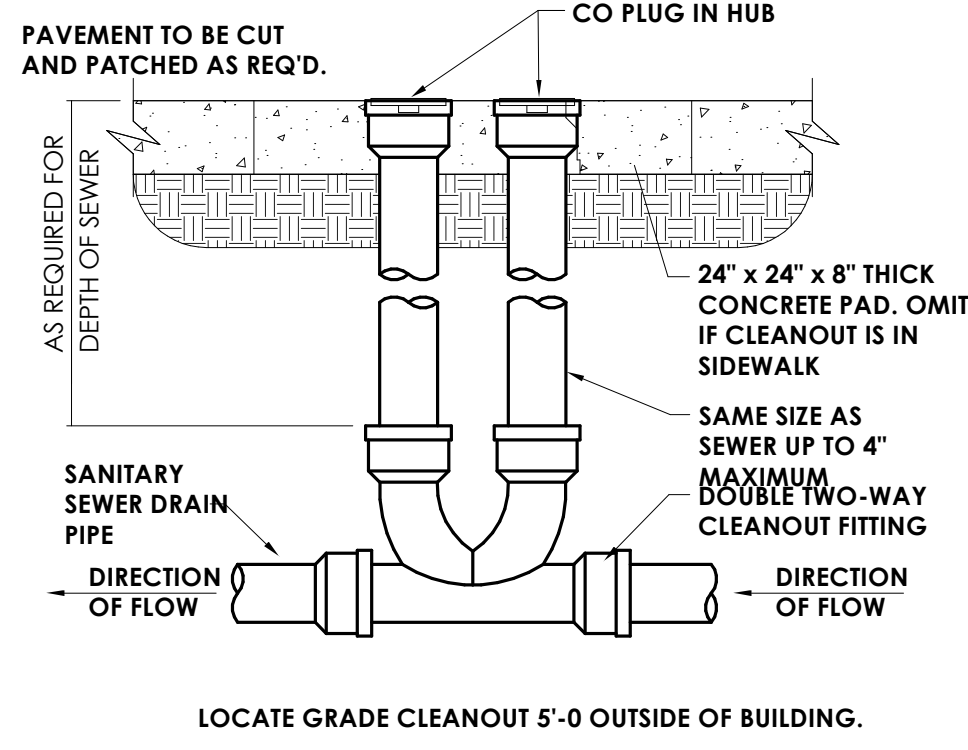
6 INDIRECT DRAIN DETAIL  
P800 NOT TO SCALE



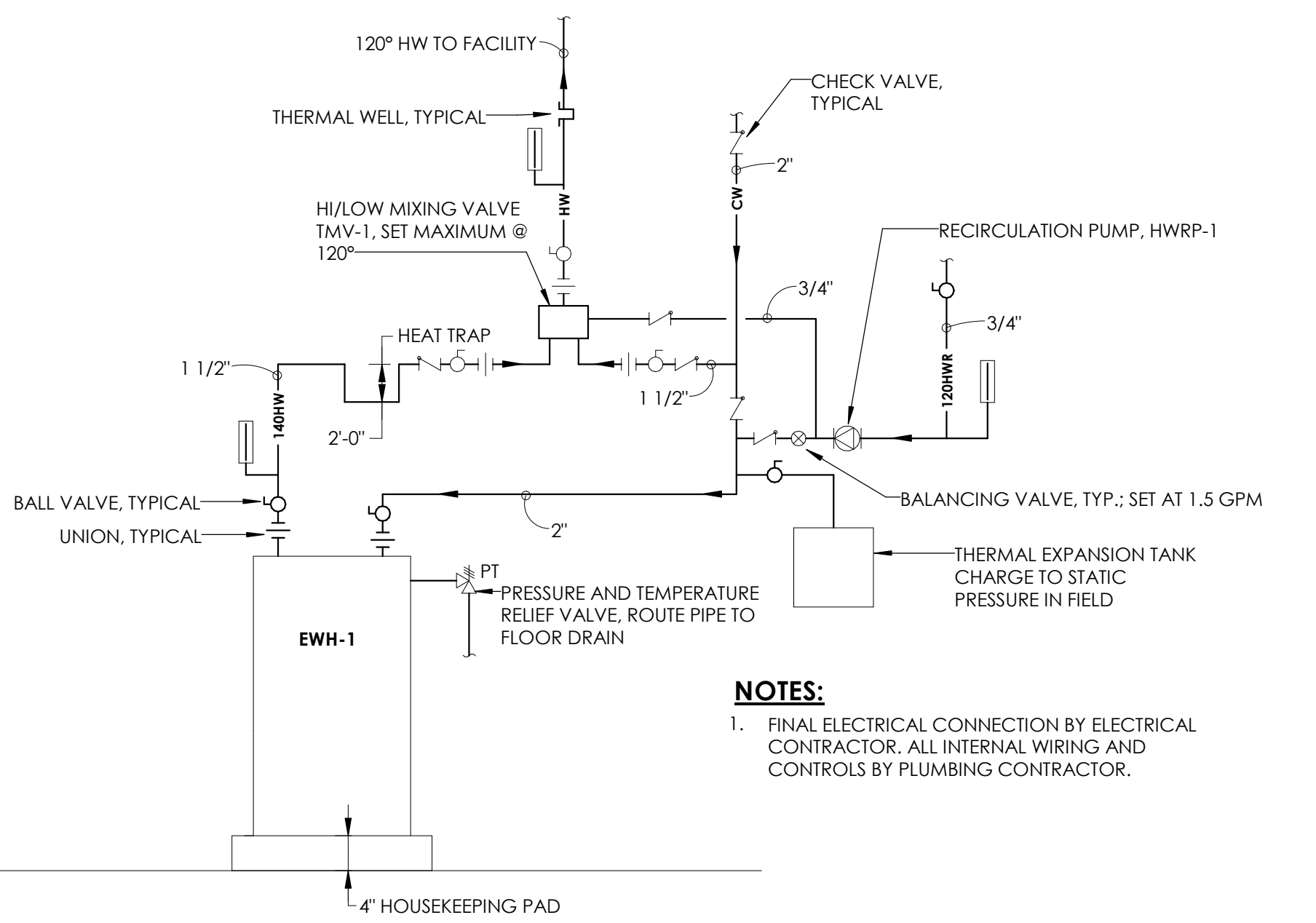
7 PIPE AND TRENCH LOCATION DETAIL  
P800 NOT TO SCALE



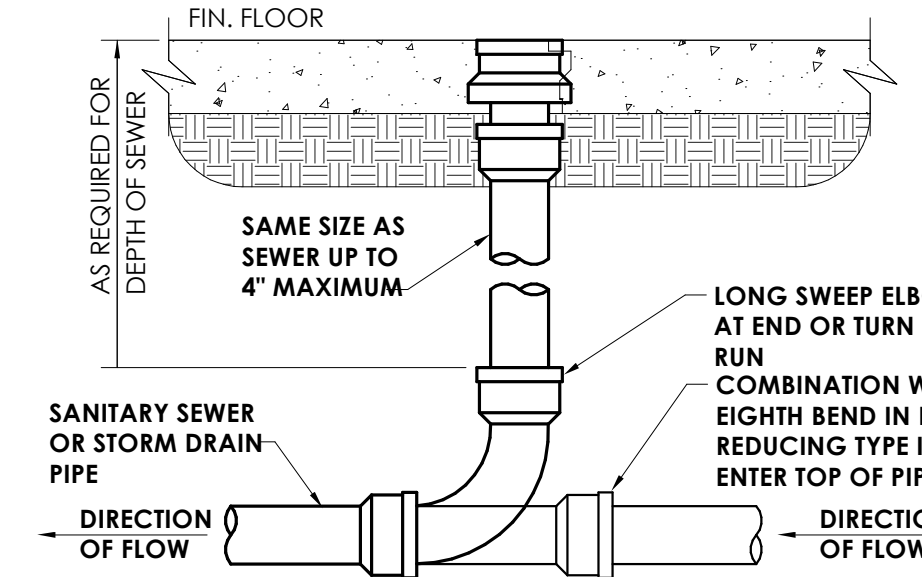
8 FLOOR DRAIN DETAIL  
P800 NOT TO SCALE



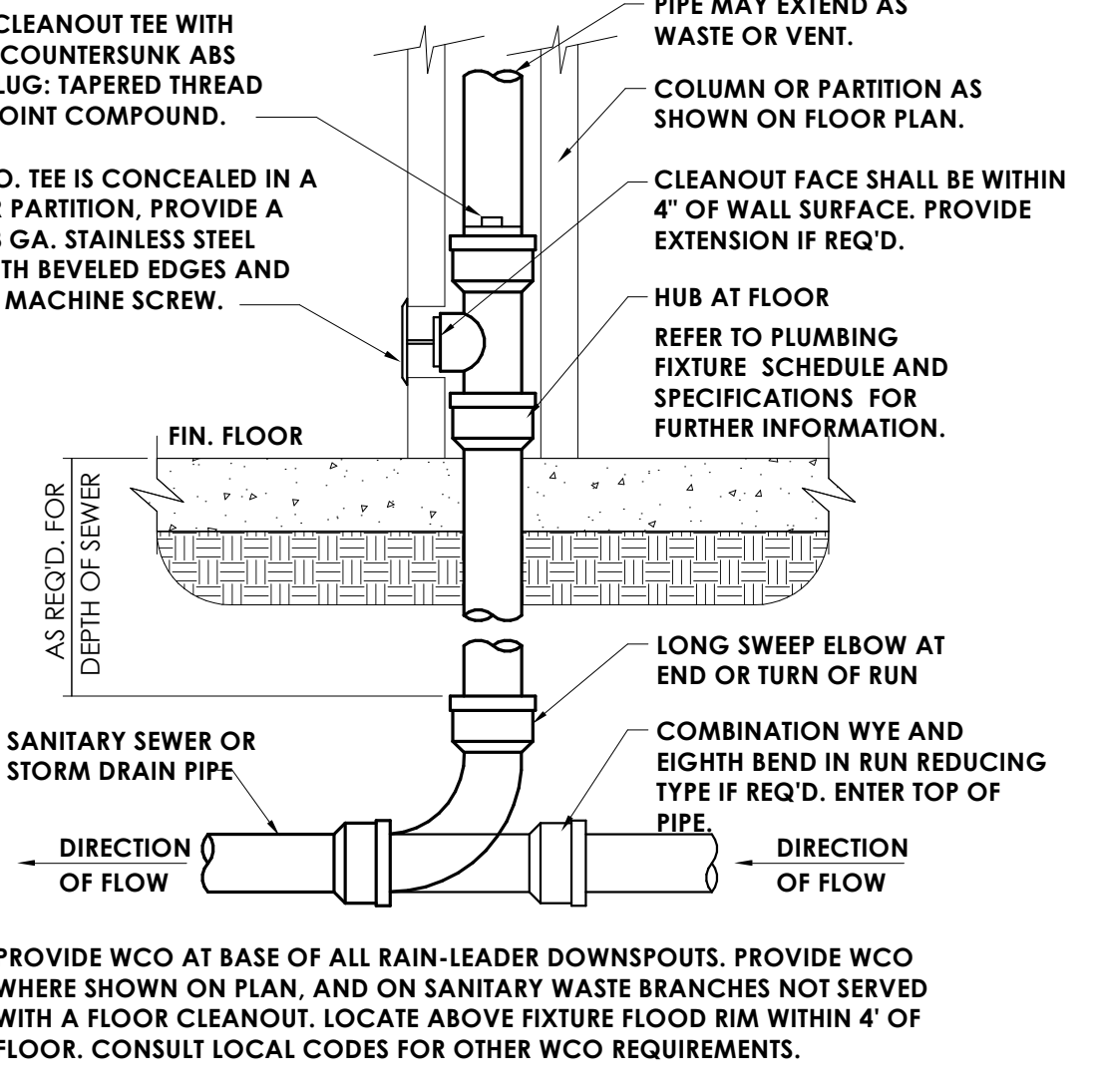
9 GRADE CLEANOUT - GCO DETAIL  
P800 NOT TO SCALE



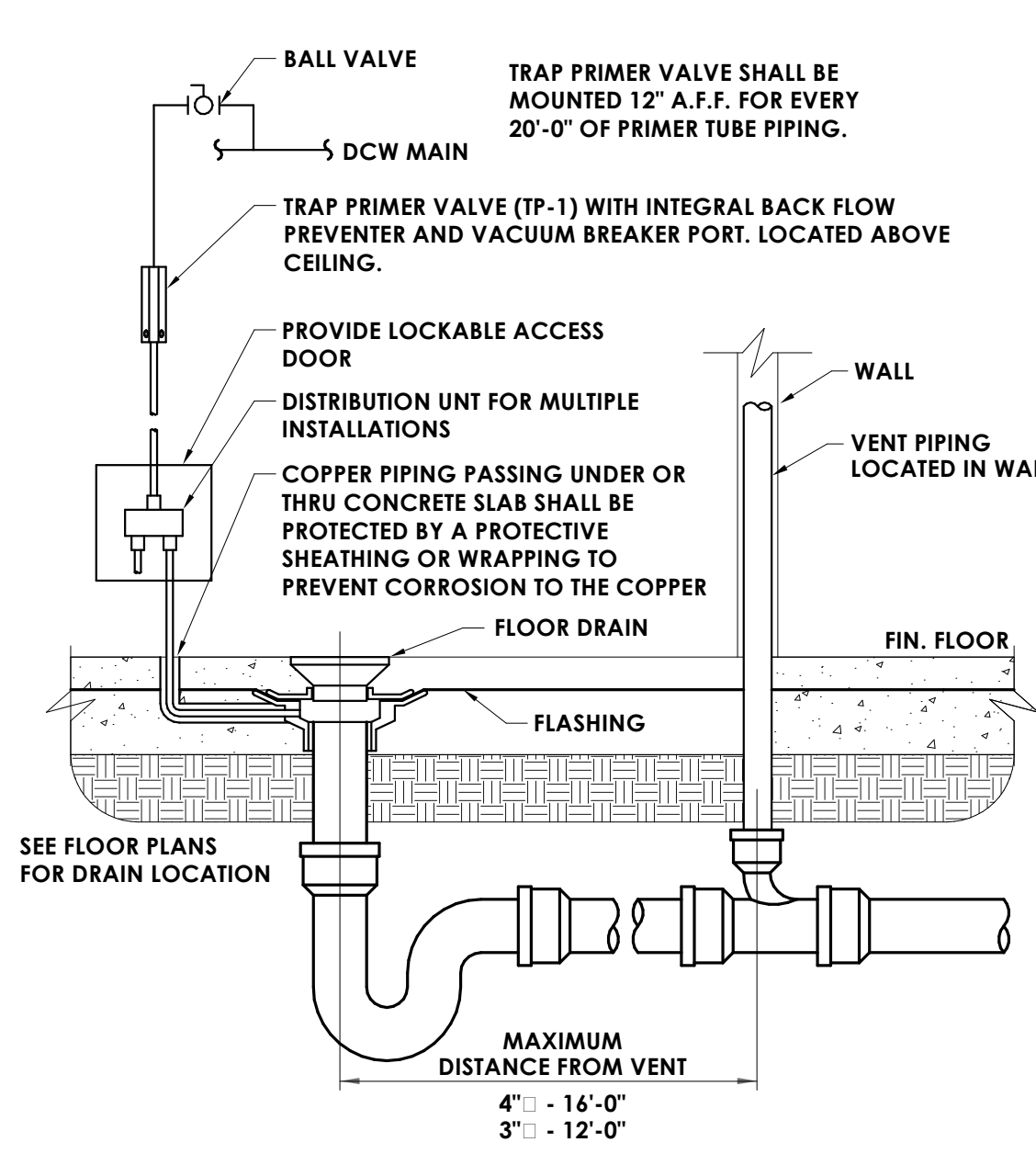
1 DOMESTIC WATER HEATER SCHEMATIC  
P800 NOT TO SCALE



2 FLOOR CLEANOUT - FCO DETAIL  
P800 NOT TO SCALE



3 WALL CLEANOUT - WCO DETAIL  
P800 NOT TO SCALE

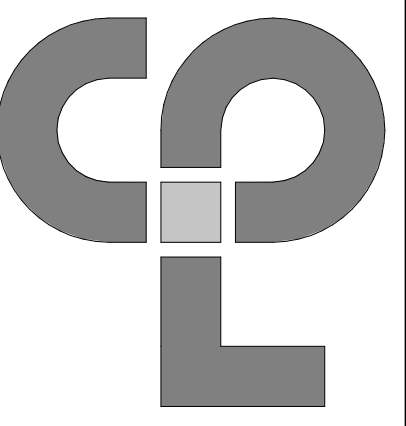


4 FLOOR DRAIN DETAIL  
P800 NOT TO SCALE

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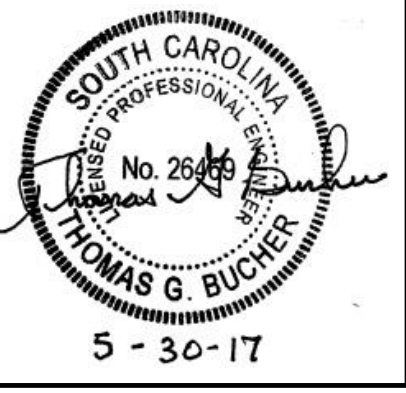
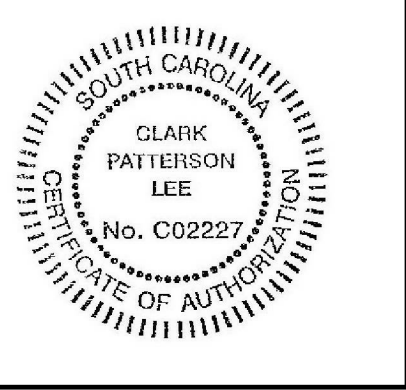






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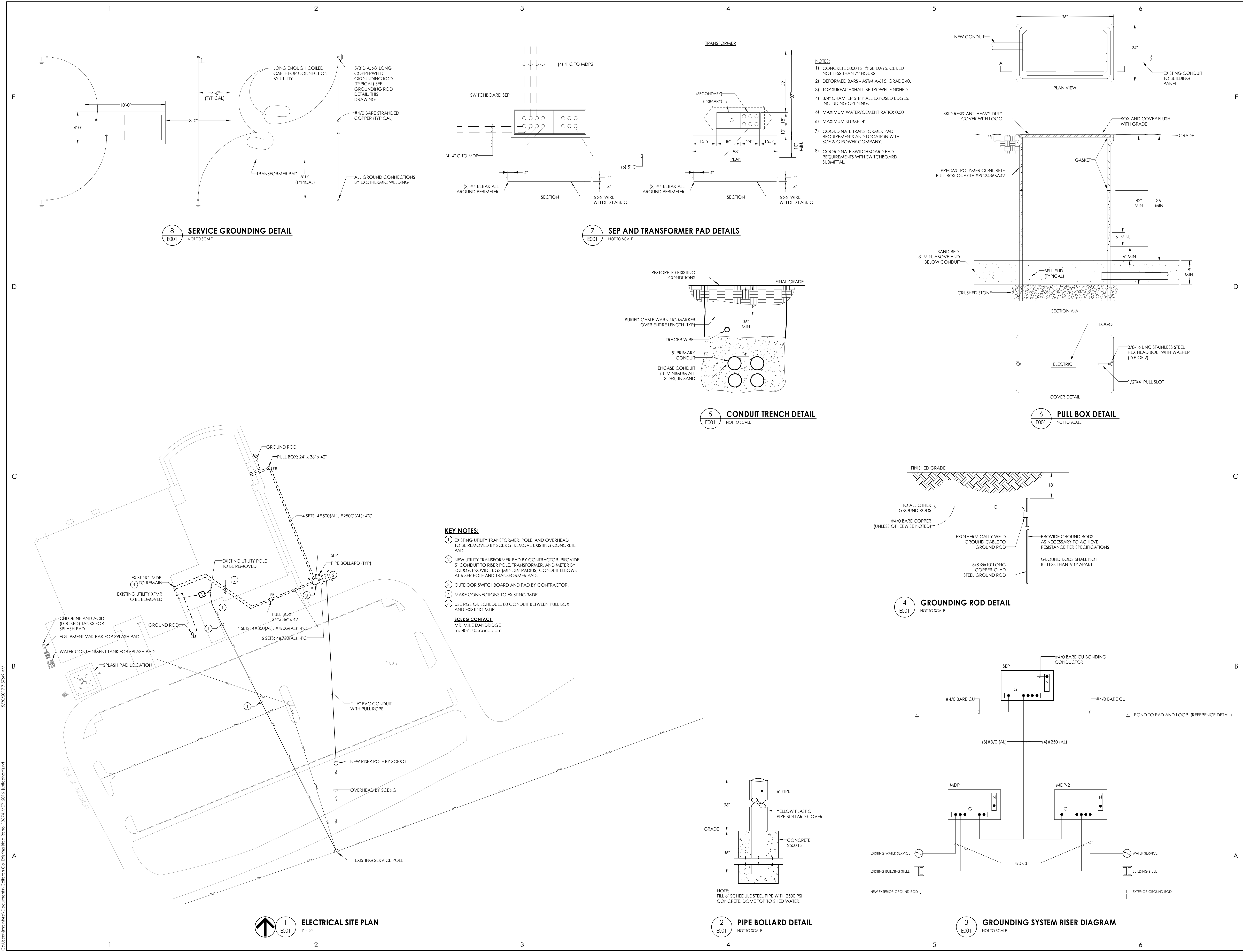


COLLETON COUNTY  
 RECREATION CENTER ADDITION AND RENOVATION  
 280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	DCC	TGB

SCALE: As indicated  
 SHEET TITLE: ELECTRICAL SITE PLAN

PROJECT NUMBER: 13674.00
<b>CC</b> E001
DRAWING NUMBER



**8 SERVICE GROUNDING DETAIL**  
 E001 NOT TO SCALE

**7 SEP AND TRANSFORMER PAD DETAILS**  
 E001 NOT TO SCALE

**5 CONDUIT TRENCH DETAIL**  
 E001 NOT TO SCALE

**6 PULL BOX DETAIL**  
 E001 NOT TO SCALE

**4 GROUNDING ROD DETAIL**  
 E001 NOT TO SCALE

**2 PIPE BOLLARD DETAIL**  
 E001 NOT TO SCALE

**3 GROUNDING SYSTEM RISER DIAGRAM**  
 E001 NOT TO SCALE

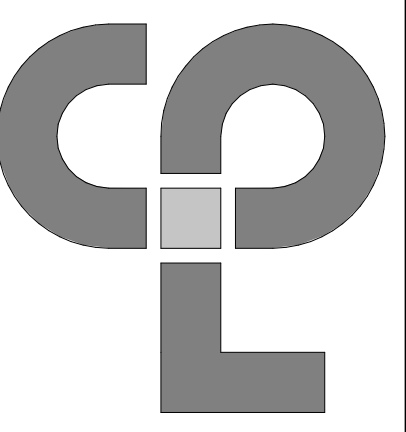
- NOTES:**
- 1) CONCRETE 3000 PSI @ 28 DAYS, CURED NOT LESS THAN 72 HOURS
  - 2) DEFORMED BARS - ASTM A-615, GRADE 40
  - 3) TOP SURFACE SHALL BE TROWEL FINISHED.
  - 4) 3/4" CHAMFER STRIP ALL EXPOSED EDGES, INCLUDING OPENING.
  - 5) MAXIMUM WATER/CEMENT RATIO: 0.50
  - 6) MAXIMUM SLUMP: 4"
  - 7) COORDINATE TRANSFORMER PAD REQUIREMENTS AND LOCATION WITH SCE & G POWER COMPANY.
  - 8) COORDINATE SWITCHBOARD PAD REQUIREMENTS WITH SWITCHBOARD SUBMITTAL.

- KEY NOTES:**
- 1) EXISTING UTILITY TRANSFORMER, POLE, AND OVERHEAD TO BE REMOVED BY SCE&G. REMOVE EXISTING CONCRETE PAD.
  - 2) NEW UTILITY TRANSFORMER PAD BY CONTRACTOR. PROVIDE 5' CONDUIT TO RISER POLE, TRANSFORMER, AND METER BY SCE&G. PROVIDE RGS (MIN. 36" RADIUS) CONDUIT ELBOWS AT RISER POLE AND TRANSFORMER PAD.
  - 3) OUTDOOR SWITCHBOARD AND PAD BY CONTRACTOR.
  - 4) MAKE CONNECTIONS TO EXISTING 'MDP'.
  - 5) USE RGS OR SCHEDULE 80 CONDUIT BETWEEN PULL BOX AND EXISTING 'MDP'.
- SCE&G CONTACT:**  
 MR. MIKE DANDRIDGE  
 md40714@sceandg.com

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 jmc@clarkpatterson.com







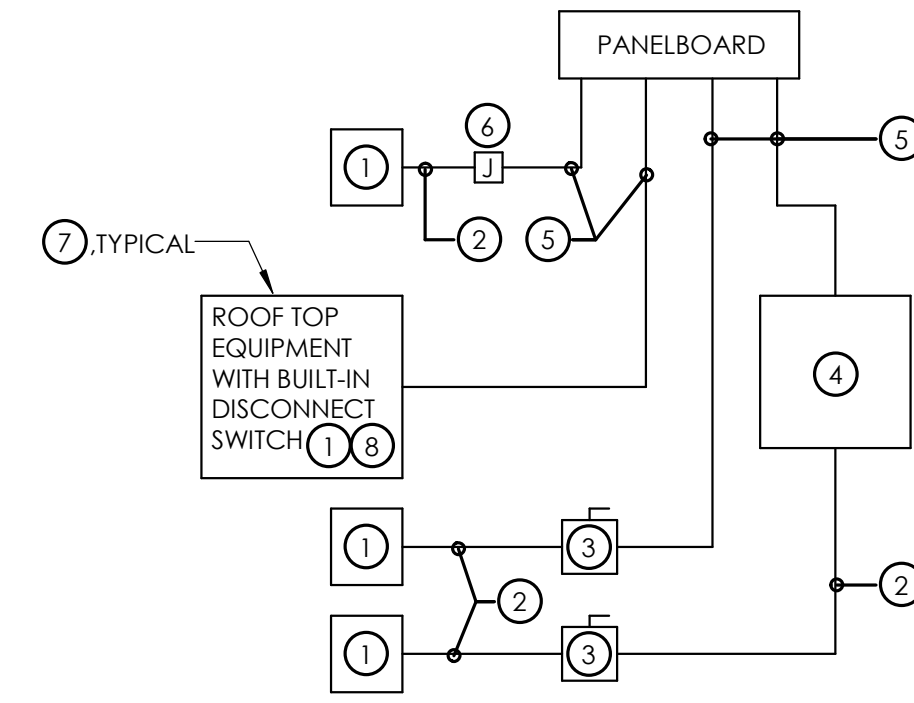
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**KEY NOTES:**

- 1 PROVIDE GFI CIRCUIT BREAKER IN INDICATED PANEL.
- 2 ALL EXISTING RECEPTACLE DEVICES AND DATA/TELE COMMUNICATION DEVICES, ARE EXISTING TO REMAIN IN THE AREA/ROOM UNLESS NOTED OTHERWISE.
- 3 NOTE NOT USED.
- 4 PROVIDE (2) 3P-225A CIRCUIT BREAKERS IN EXISTING PANEL 'MDP'.
- 5 PROVIDE 1P-20A CIRCUIT BREAKER WITH RED HANDLE AND LOCKING DEVICE IN EXISTING PANEL.
- 6 COORDINATE UNDERGROUND CONDUITS WITH RTU INSTALLATION.
- 7 SMOKE DETECTOR IN RETURN AIR FURNISHED BY EQUIPMENT MANUFACTURER. WIRED FOR FAN SHUTDOWN UPON ACTIVATION.
- 8 PROVIDE CONDUIT SYSTEM FOR FIRE ALARM CONNECTIONS.
- 9 INSTALL CONDUIT HIGH TO AVOID CONFLICT WITH DUCT INSTALLATION.
- 10 PREP DOOR FOR FUTURE ACCESS CONTROL FOR PER DETAIL.
- 11 PROVIDE GFCI RECEPTACLE FOR NEW WATER COOLER.

**ELECTRICAL EQUIPMENT CONNECTION DETAIL KEY NOTES:**

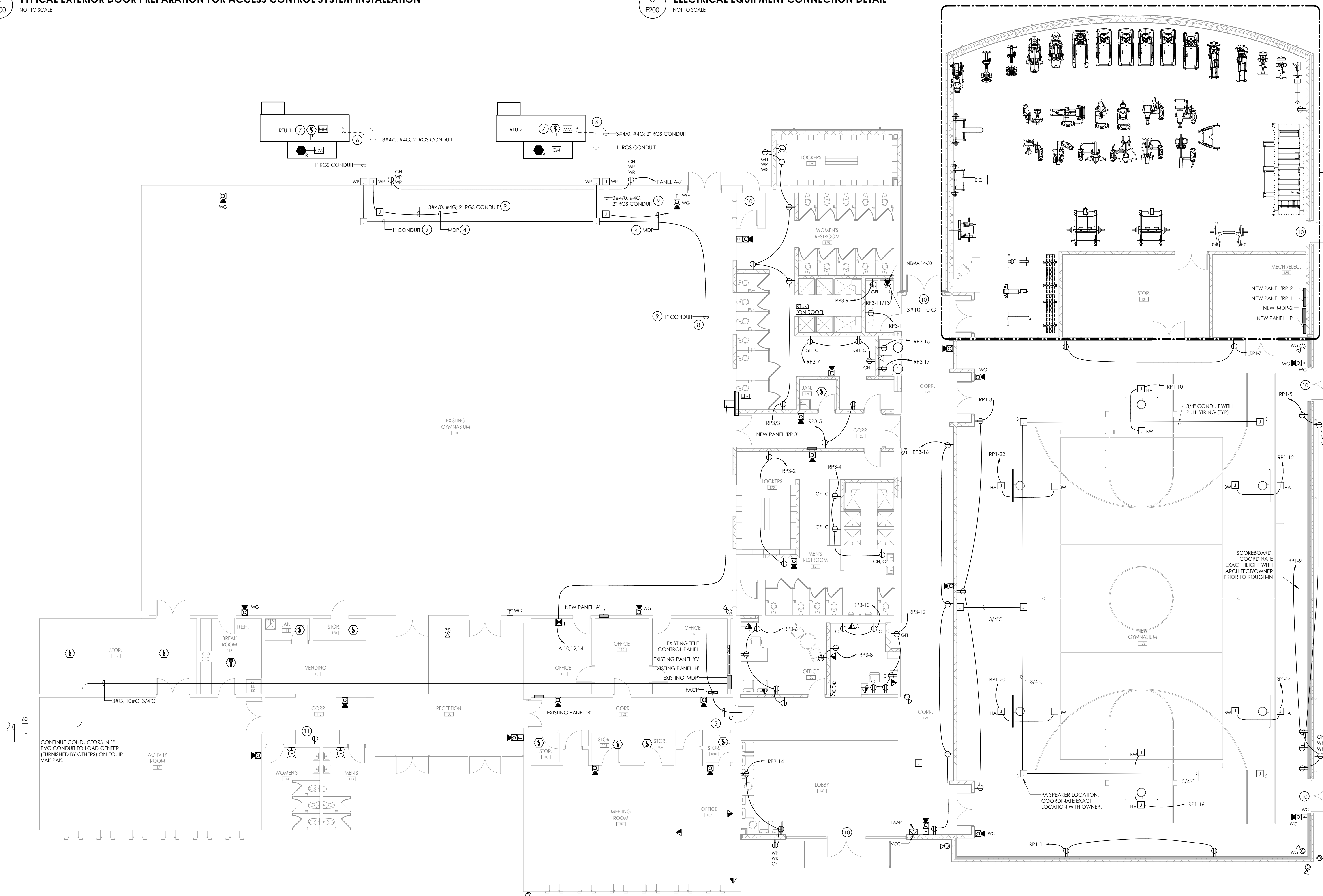
- 1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- 2 CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY THE NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- 4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- 5 BRANCH CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD AND MECHANICAL EQUIPMENT CONNECTION SCHEDULES FOR BREAKER AND WIRE SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT, IF NO STARTER OR DISCONNECT IS SUPPLIED. A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- 7 IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- 8 IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.



IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.

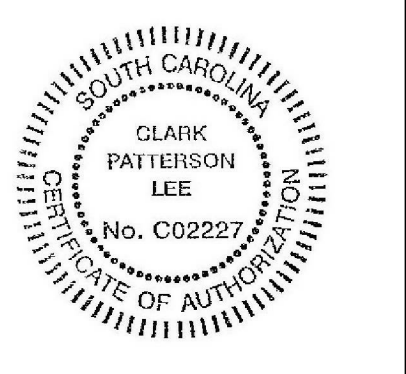
**2 TYPICAL EXTERIOR DOOR PREPARATION FOR ACCESS CONTROL SYSTEM INSTALLATION**  
E200  
NOT TO SCALE

**3 ELECTRICAL EQUIPMENT CONNECTION DETAIL**  
E200  
NOT TO SCALE



**1 ELECTRICAL GROUND FLOOR POWER AND SYSTEMS PLAN**  
E200  
1/8" = 1'-0"

NO.	DATE	BY	CHKD	DESCRIPTION



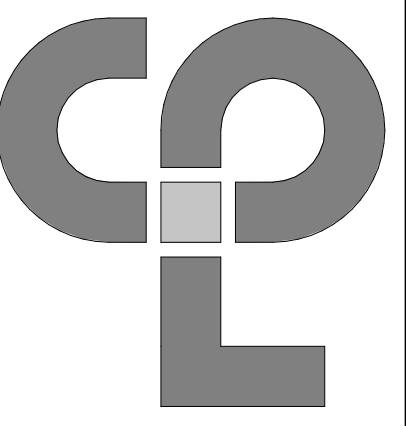
COLLETON COUNTY  
RECREATION CENTER ADDITION AND RENOVATION  
280 RECREATION LN., WALTERBORO, SC 29488

DATE	DRAWN	CHECKED
05/30/17	JMM	TGB

SCALE: As indicated  
SHEET TITLE: ELECTRICAL GROUND FLOOR POWER AND SYSTEMS PLAN

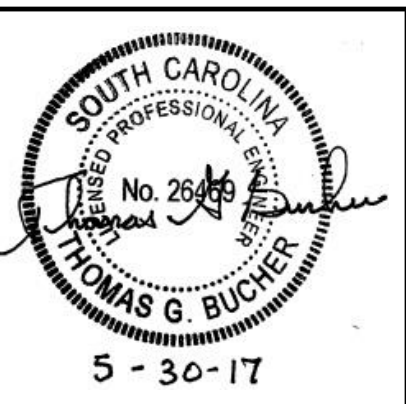
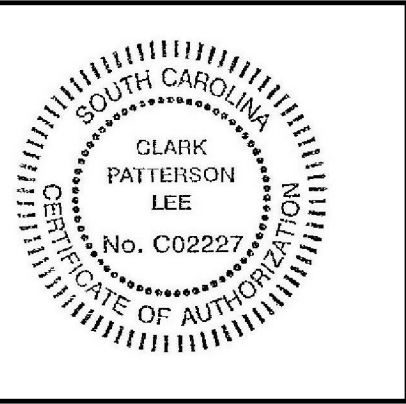
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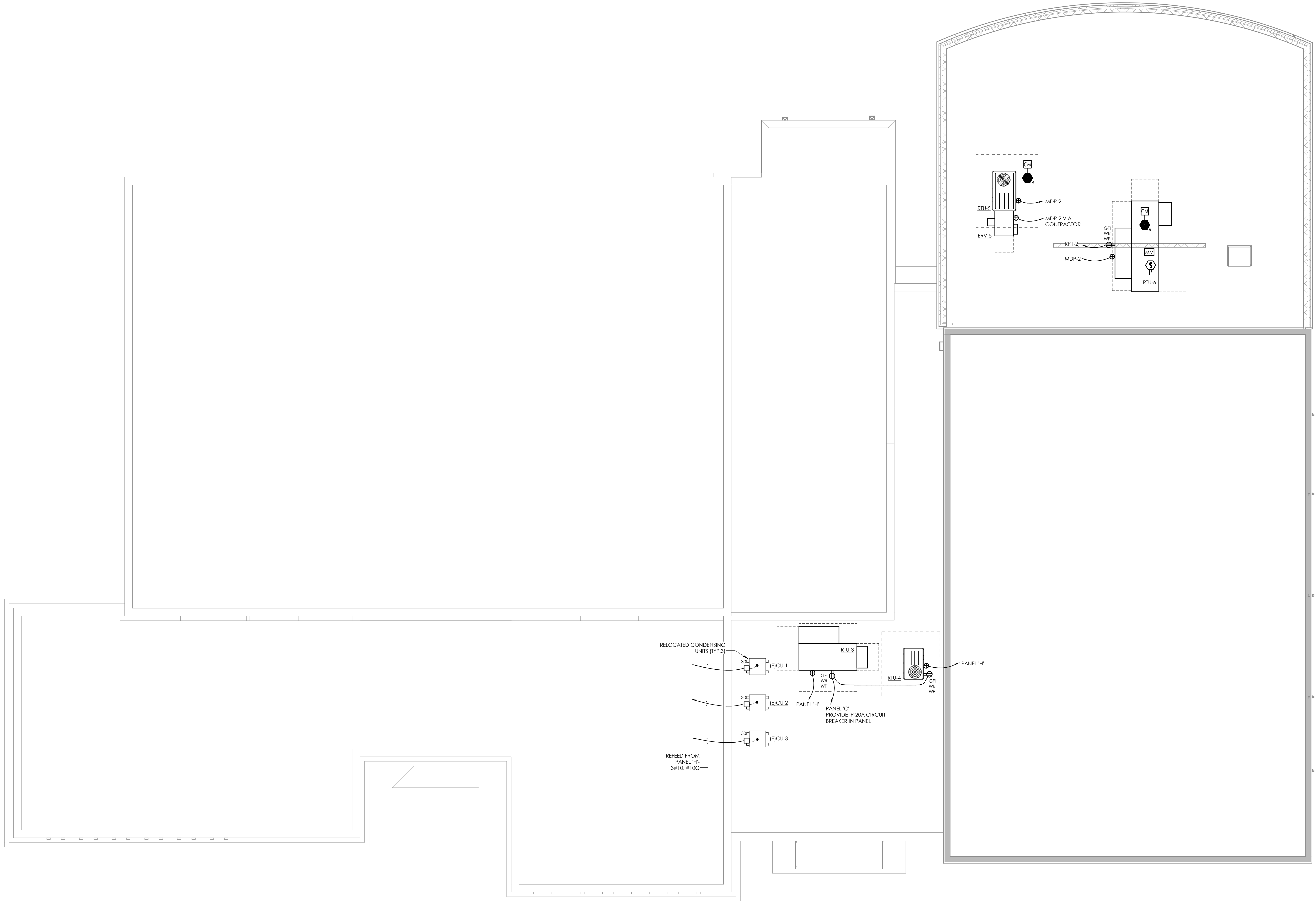
NO.	DATE	BY	CHKD	DESCRIPTION



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 280 RECREATION LN., WALTERBORO, SC 29488

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SHEET TITLE		
ELECTRICAL ROOF POWER PLAN		

PROJECT NUMBER	13674.00
CC	E201
DRAWING NUMBER	



**ELECTRICAL ROOF POWER PLAN**  
 1  
 E201  
 1/8" = 1'-0"

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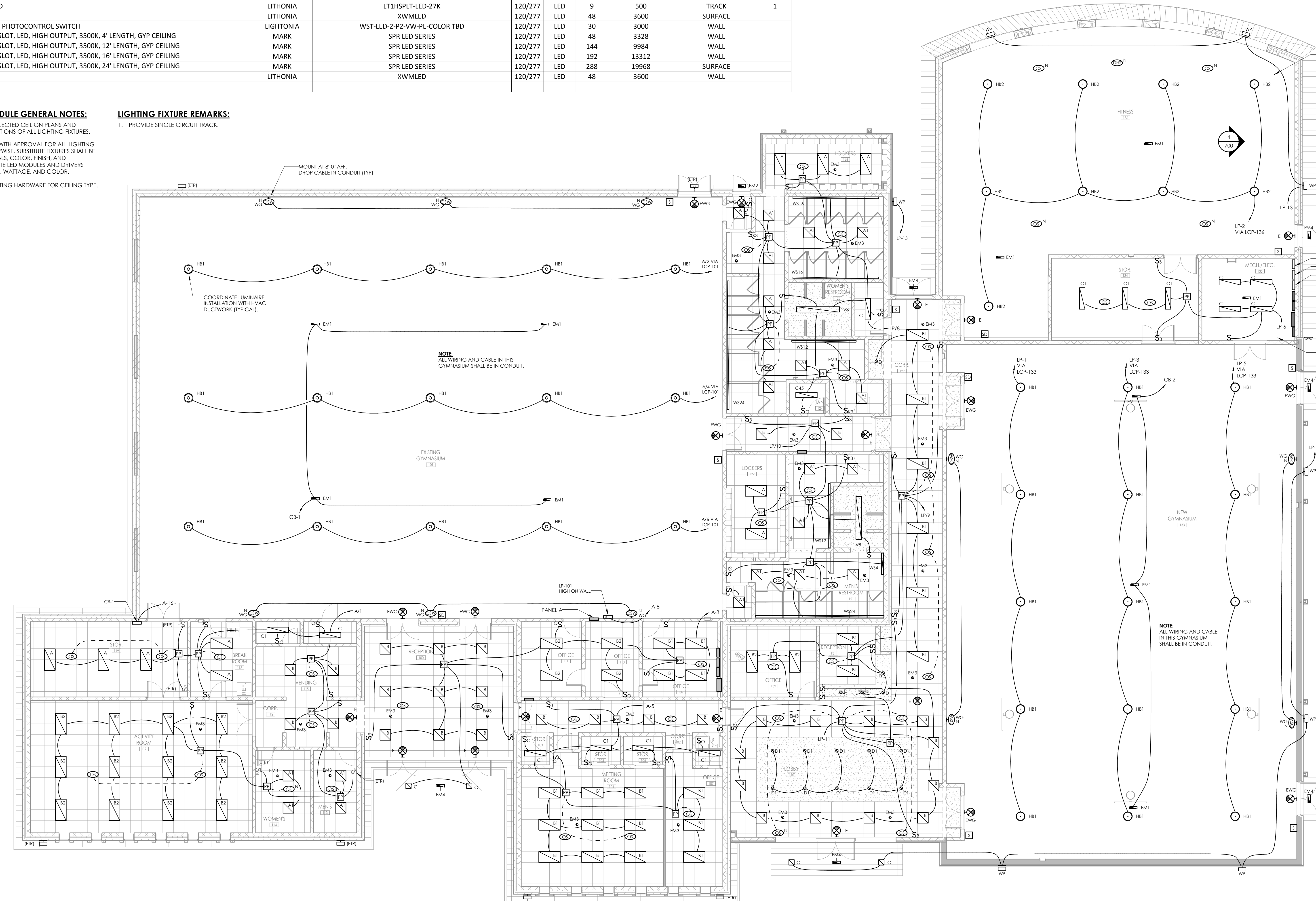


TYPE	DESCRIPTION	DESIGN MAKE	MODEL NUMBER	VOLTS	LUMEN SOURCE		MOUNTING	NOTES	
					TYPE	WATTS			LUMENS
A	2'X4' LED GRID TROFFER, ALUMINUM DOOR	LITHONIA	2GTL4-60L-FW-LP835	120/277	LED	54.8	6000	GRID	
A1	2'X2' LED GRID TROFFER, ALUMINUM DOOR	LITHONIA	2GTL2-20L-FW-LP835	120/277	LED	19.6	2000	GRID	
B	2'X2' LED RECESSED VOLUMETRIC TROFFER	LITHONIA	2RTL2-40L-LP-835	120/277	LED	40	3991	GRID	
B1	2'X4' LED RECESSED VOLUMETRIC TROFFER	LITHONIA	2RTL4-60L-3500K	120/277	LED	55	5418	GRID	
B2	2'X4' LED RECESSED VOLUMETRIC TROFFER	LITHONIA	2RTL4-72L-3500K	120/277	LED	71	6984	GRID	
C	1'X1' LED SURFACE MOUNT EXTERIOR HIGH ABUSE LUMINAIRE, UL LISTED FOR WET LOCATIONS	KENALL	MS11FL-PP-DB-20L35K-DV-BPC-SA	120/277	LED	41	3389	SURFACE	
C1	SURFACE WRAPAROUND	LITHONIA	CA-232-MVOLT-GE810RS	120/277	LED	39	4542	PENDANT	
D	LED 4" DOWNLIGHT	GOTHAM	EVO-35/15-4WR-MD-LD-MVOLT	120/277	LED	17.3	1500	RECESSED	
D1	LED 6" DOWNLIGHT, 0-10V DIM TO 1%	GOTHAM	EVO-35/40-6WR-WD-LD-MVOLT-EZ1	120/277	LED	48.1	4000	RECESSED	
E	EXIT SIGN, RED LETTERS	SIGNTEX	RPR-REC-1-R-W-TW	24	LED	2	-	WALL/CEILING	
EM1	EMERGENCY LIGHT, HIGH OUTPUT, SURFACE	SIGNTEX	MHE-RE-30-S-W	24	LED	30	-	SURFACE	
EM2	EMERGENCY WALL MOUNTED FIXTURE	SIGNTEX	MAE-RE-10-A-W	24	LED	10	-	WALL	
EM3	EMERGENCY DOWNLIGHT	SIGNTEX	MLD-RE-10-W	24	LED	10	-	RECESSED	
EM4	EMERGENCY CANOPY MOUNTED FIXTURE	SIGNTEX	MAE-RE-10-A-T	24	LED	10	-	CANOPY	
EWG	EXIT SIGN, RED LETTERS, WIRE GUARD	SIGNTEX	RPR-REC-1-R-W-TW-WG	24	LED	2	-	WALL/CEILING	
HB1	PENDANT MOUNTED LED WITH ALUMINUM REFLECTOR, SAFETY CABLE, SWIVEL STEM	LITHONIA	JCBL-24000LM-DALR-MVOLT-GZ10-35K-80CRI-PM-JCBLSC120	120/277	LED	193	24,000	PENDANT	
HB2	PENDANT MOUNTED LED WITH FROSTED ACRYLIC REFLECTOR, CONICAL LENS	LITHONIA	JCBL-12000LM-ACFR-ACRCON-MVILT-GZ10-35K-80CRI-PM	120/277	LED	90	12,000	PENDANT	
T	TRACK MOUNTED LED	LITHONIA	LT1HSPLT-LED-27K	120/277	LED	9	500	TRACK	1
V8	8' LED VAPORTIGHT	LITHONIA	XWMLLED	120/277	LED	48	3600	SURFACE	
WP	LED WALLPACK WITH PHOTOCONTROL SWITCH	LIGHTONIA	WST-LED-2-P2-VV-PE-COLOR TBD	120/277	LED	30	3000	WALL	
WS4	CONTINUOUS WALL SLOT, LED, HIGH OUTPUT, 3500K, 4' LENGTH, GYP CEILING	MARK	SPR LED SERIES	120/277	LED	48	3328	WALL	
WS12	CONTINUOUS WALL SLOT, LED, HIGH OUTPUT, 3500K, 12' LENGTH, GYP CEILING	MARK	SPR LED SERIES	120/277	LED	144	9984	WALL	
WS16	CONTINUOUS WALL SLOT, LED, HIGH OUTPUT, 3500K, 16' LENGTH, GYP CEILING	MARK	SPR LED SERIES	120/277	LED	192	13312	WALL	
WS24	CONTINUOUS WALL SLOT, LED, HIGH OUTPUT, 3500K, 24' LENGTH, GYP CEILING	MARK	SPR LED SERIES	120/277	LED	288	19968	SURFACE	
V8	8' LED VAPORTIGHT	LITHONIA	XWMLLED	120/277	LED	48	3600	WALL	

- GENERAL NOTES:**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LIGHTING FIXTURE LOCATIONS.
  - CONNECT ALL EXIT SIGNS TO CONTINUOUSLY HOT CONDUCTOR OF CIRCUIT INDICATED AHEAD OF ANY SWITCHING OR OTHER CONTROL.
  - COORDINATE ALL LIGHT SWITCH/CONTROL LOCATIONS WITH DOOR SWINGS PRIOR TO ROUGH-IN. REGARDLESS OF HOW SHOWN ON PLAN, LIGHT SWITCHES IN ROOM CONTROLLING FIXTURES ON EMERGENCY POWER SHALL BE CLOSEST TO DOOR JAMB.

- LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
  - SUBSTITUTIONS ARE ALLOWED WITH APPROVAL FOR ALL LIGHTING FIXTURES UNLESS NOTED OTHERWISE. SUBSTITUTE FIXTURES SHALL BE EQUAL IN TYPE, STYLE, MATERIALS, COLOR, FINISH, AND ELECTRICAL RATINGS. SUBSTITUTE LED MODULES AND DRIVERS SHALL BE EQUAL IN TYPE, STYLE, WATTAGE, AND COLOR.
  - PROVIDE WITH PROPER MOUNTING HARDWARE FOR CEILING TYPE.

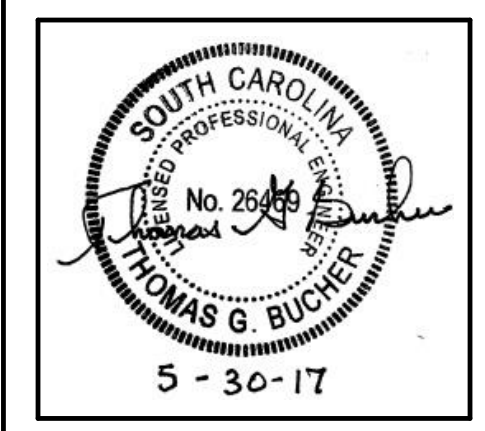
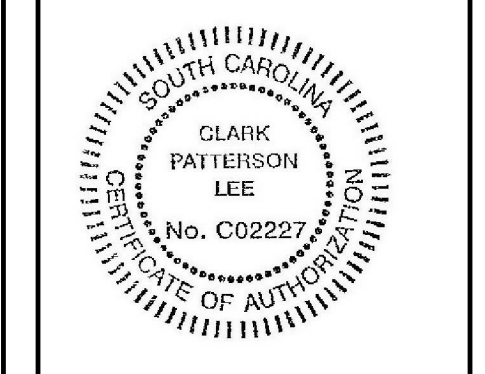
- LIGHTING FIXTURE REMARKS:**
- PROVIDE SINGLE CIRCUIT TRACK.



**ELECTRICAL GROUND FLOOR LIGHTING CEILING**  
1/8" = 1'-0"

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280 RECREATION LN., WALTERBORO, SC 29488

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SHEET TITLE	ELECTRICAL GROUND FLOOR LIGHTING PLAN	

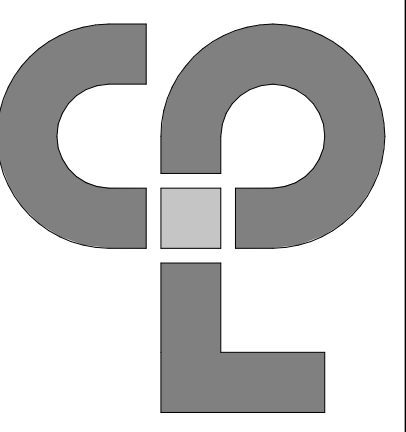
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**CC**  
E300

DRAWING NUMBER

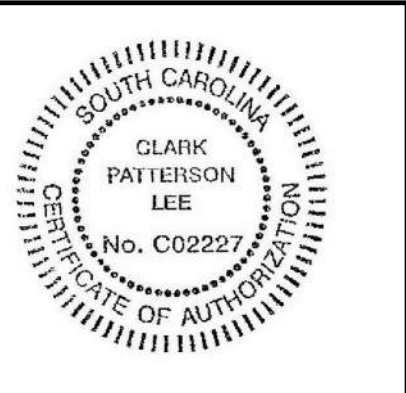
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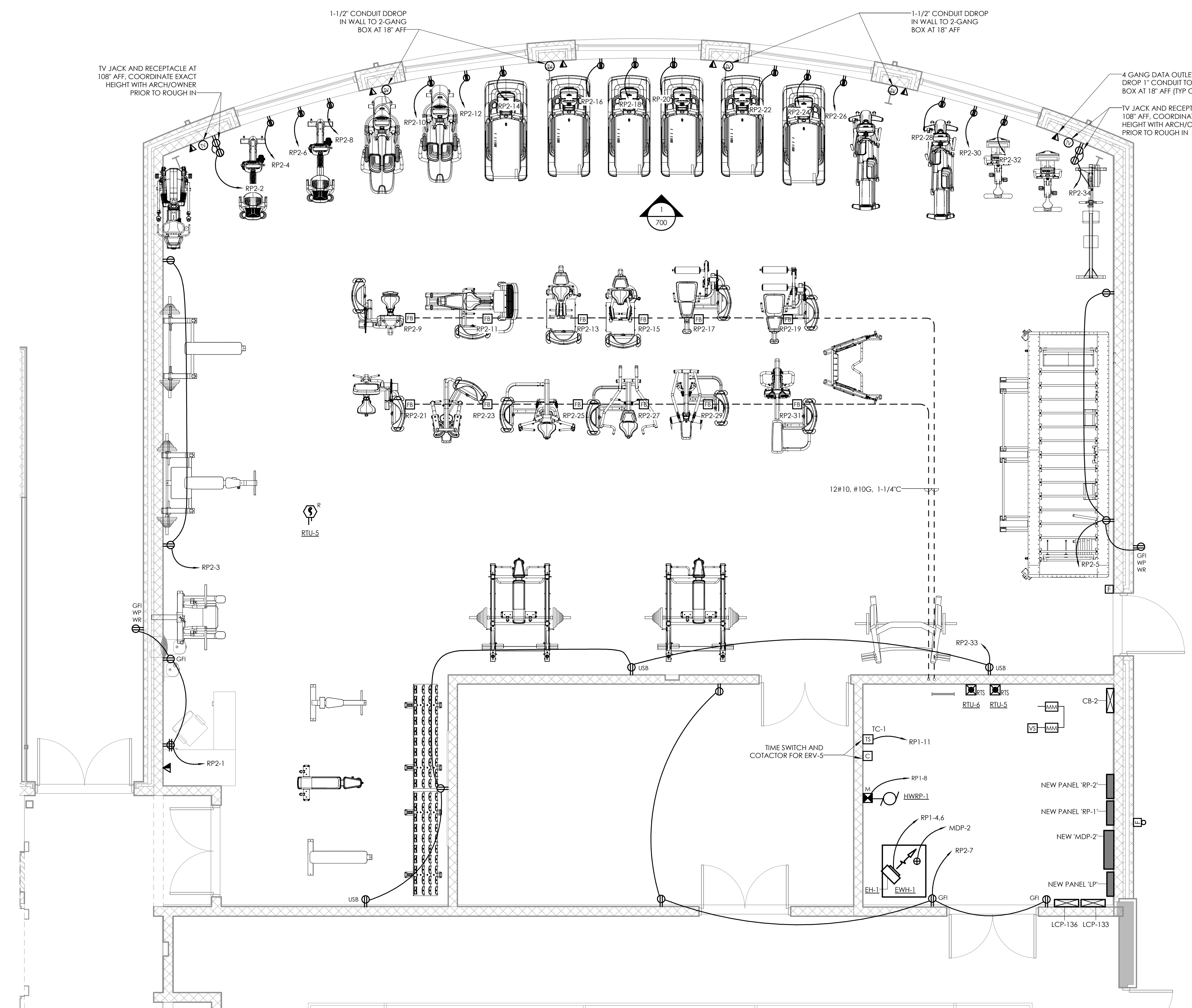
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DATE	DRAWN	CHECKED
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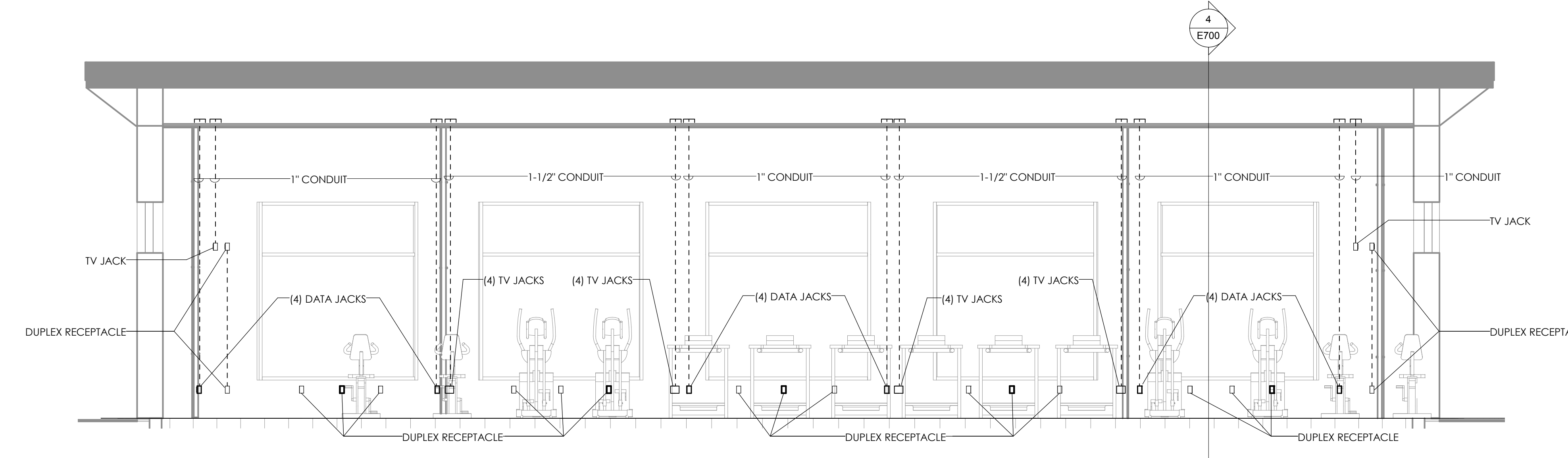
SCALE: As indicated  
 SHEET TITLE: ENLARGED PLANS AND FIRE ALARM RISER DIAGRAM SECTIONS.

PROJECT NUMBER: 13674.00
<b>CC</b> E700
DRAWING NUMBER

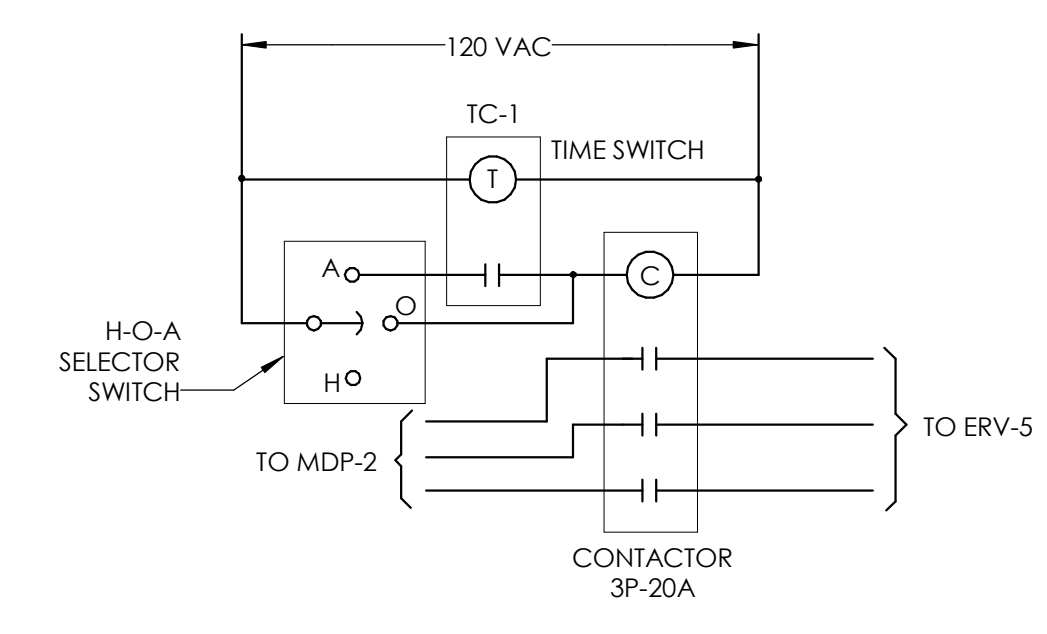
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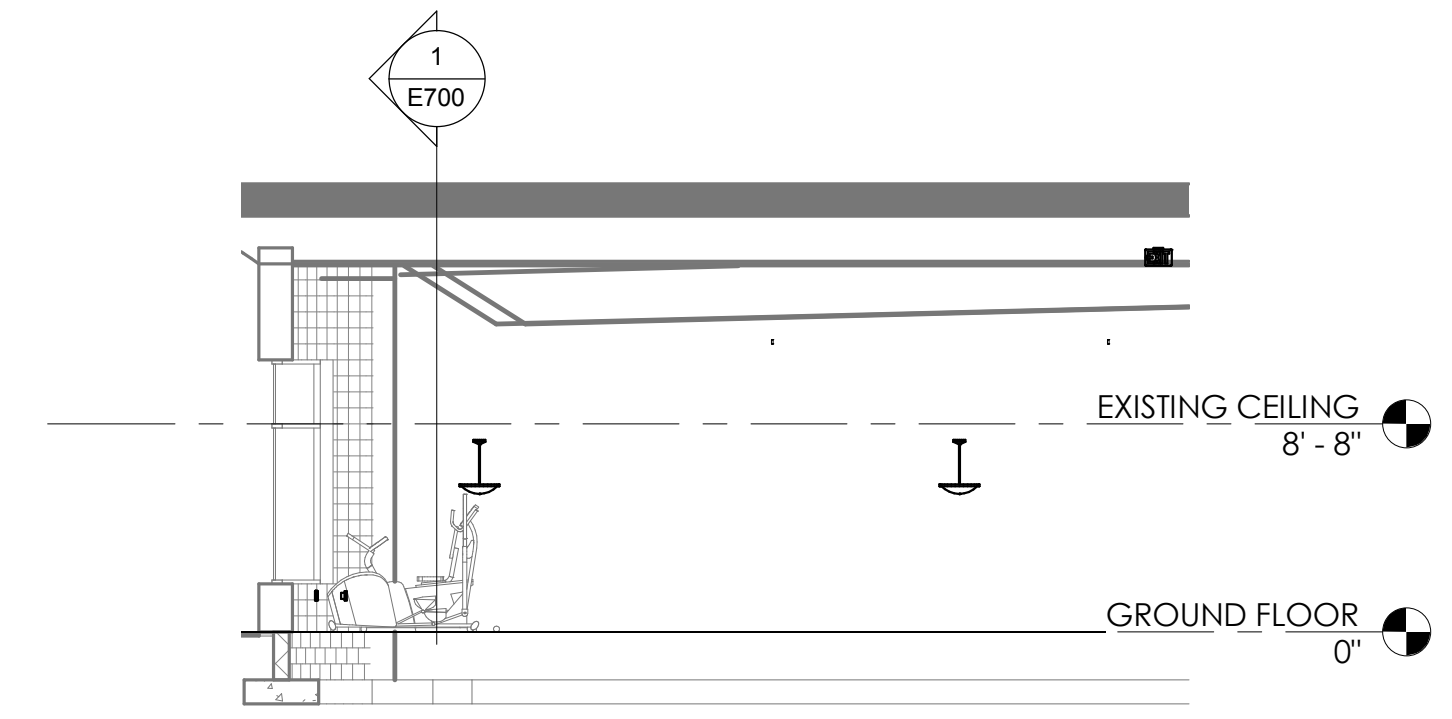
**3 ENLARGED FITNESS AREA ELECTRICAL POWER AND SYSTEMS PLAN**  
 1/4" = 1'-0"



**1 FITNESS AREA-NORTH WALL**  
 1/4" = 1'-0"

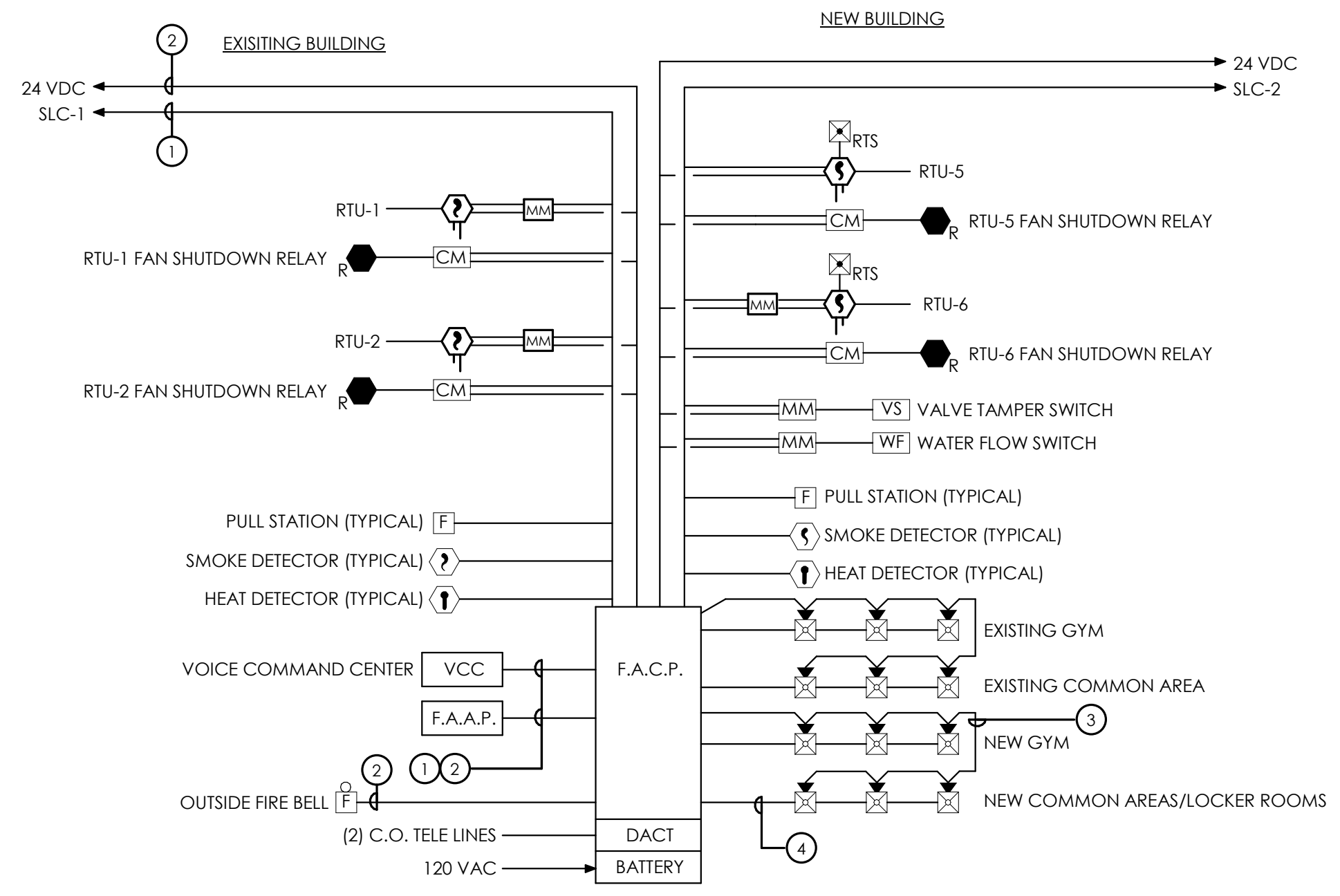


**5 ERV-5 CONTROL SCHEMATIC**  
 NOT TO SCALE



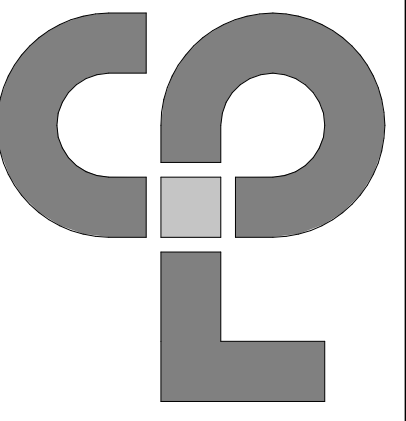
**4 Section 18**  
 1/8" = 1'-0"

TYPE	SERVICE	SERVICE	DESIGN BASE
1	SIGNAL LINE CIRCUIT	#18 T.S.P.	WEST PENN #060975
2	24VDC/CONTROL	#14 U.T.P.	WEST PENN #060938
3	NAC SPEAKER CIRCUIT	#18 T.S.P.	WEST PENN #060975
4	NAC STROBE CIRCUIT	#14 U.T.P.	WEST PENN #060938



**2 FIRE ALARM RISER**  
 NOT TO SCALE

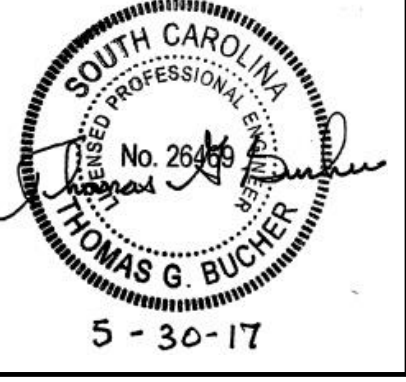
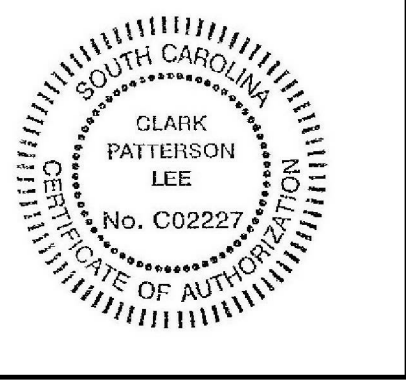




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Revision Schedule

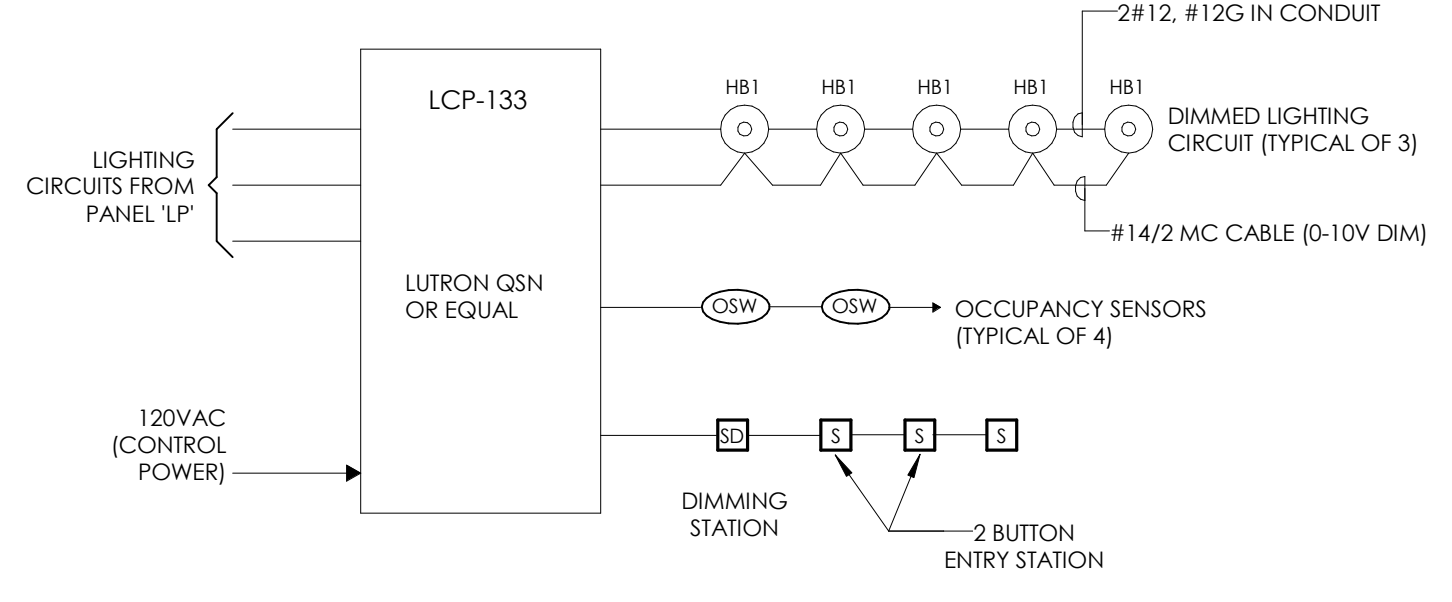
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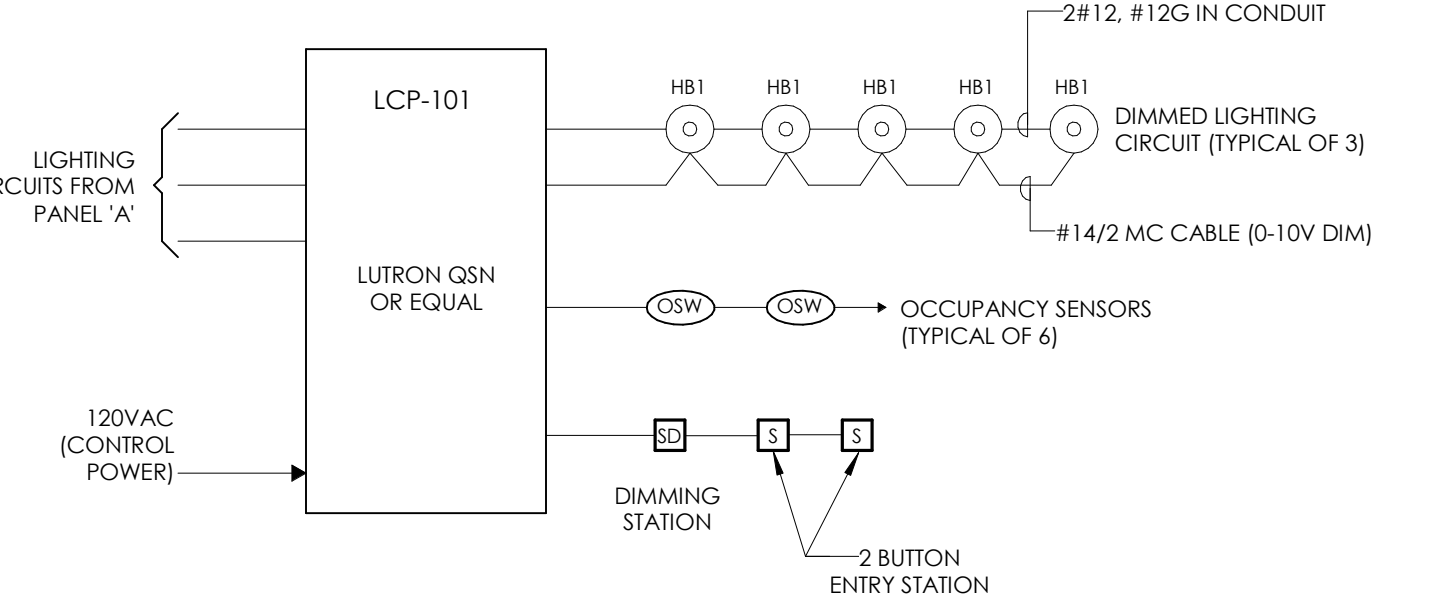
COLLETON COUNTY  
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DATE: 05/30/17  
 SCALE: As indicated  
 SHEET TITLE: ELECTRICAL DETAILS

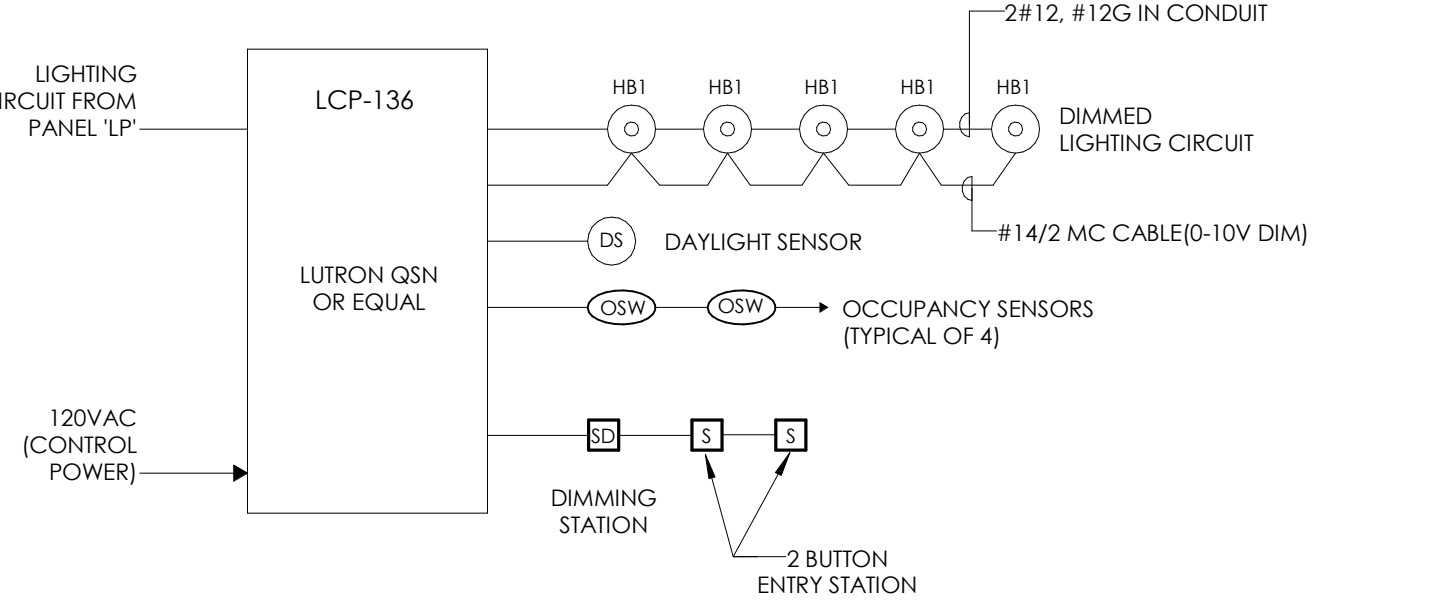
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 CC  
 E800  
 DRAWING NUMBER



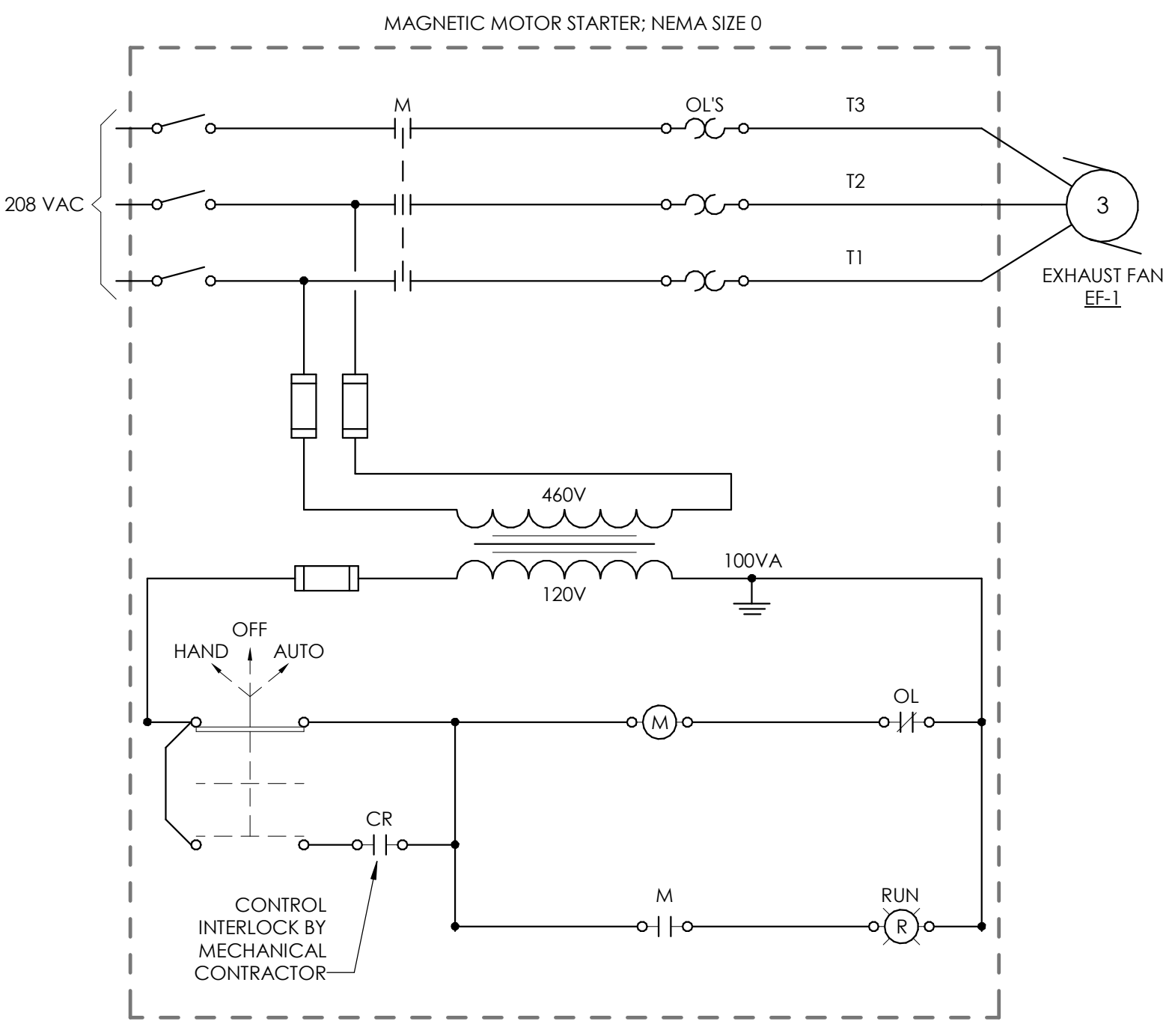
**3 GYMNASIUM 133 LIGHTING CONTROL RISER DIAGRAM**  
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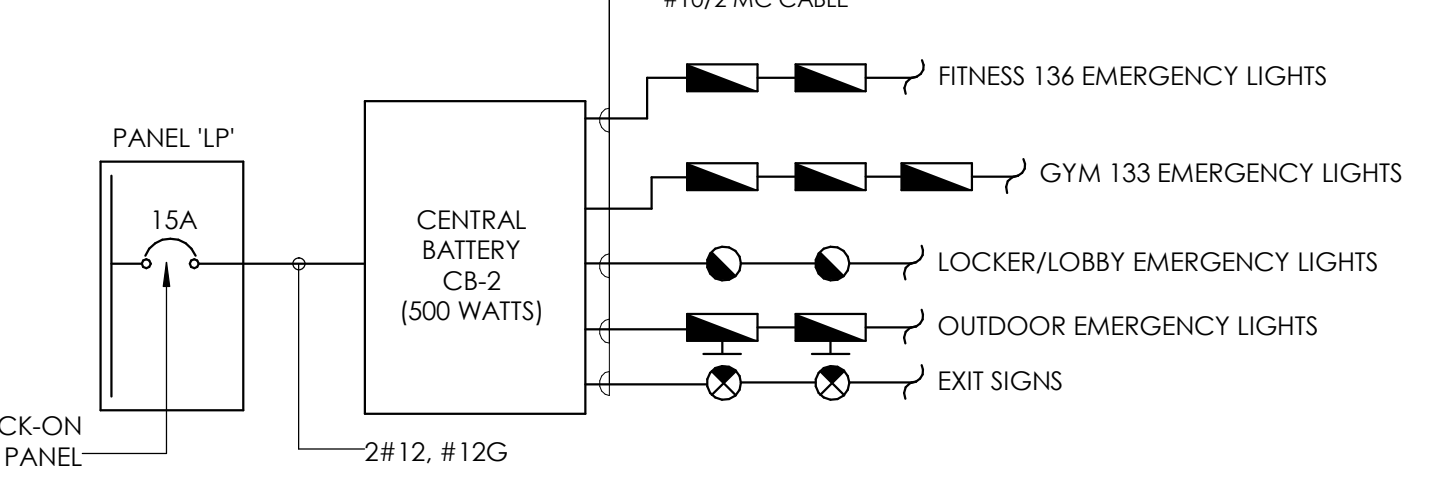
**2 GYMNASIUM 101 LIGHTING CONTROL RISER DIAGRAM**  
 E800 NOT TO SCALE



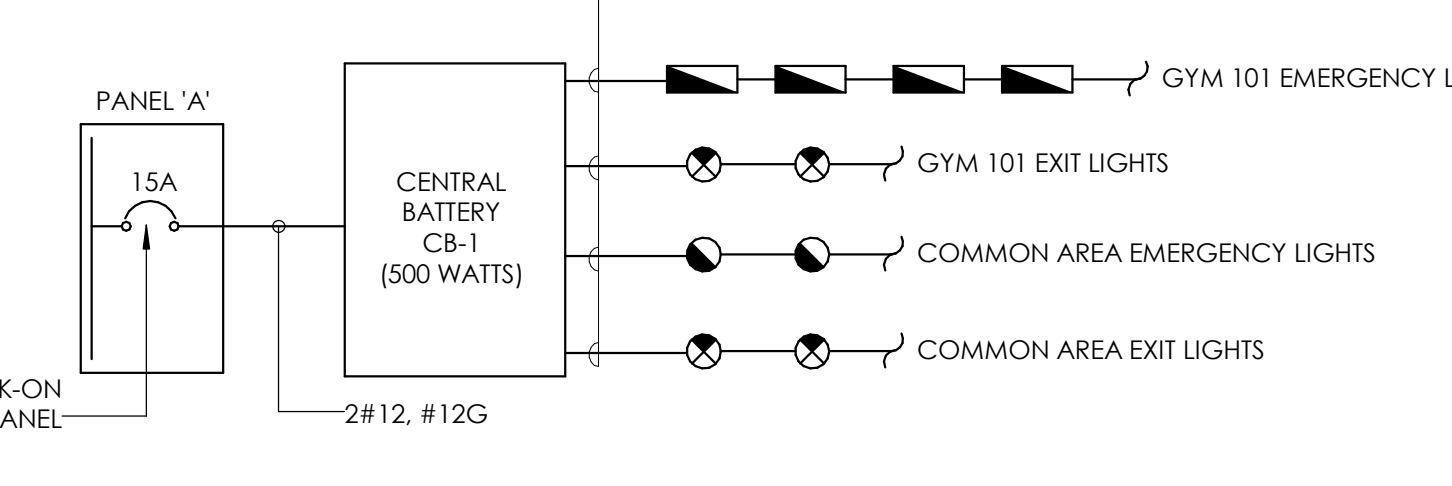
**1 FITNESS 136 LIGHTING CONTROL RISER DIAGRAM**  
 E800 NOT TO SCALE



**6 EXHAUST FAN EF-1 CONTROL SCHEMATIC**  
 E800 NOT TO SCALE



**5 NEW BUILDING EMERGENCY LIGHTING RISER DIAGRAM**  
 E800 NOT TO SCALE



**4 EXISTING BUILDING EMERGENCY LIGHTING RISER DIAGRAM**  
 E800 NOT TO SCALE

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PANEL PANEL A		VOLTAGE: 208/120V	3 PH 4W	100A		MLO	AIC RATING: 10K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		ACTIVITY AREA LIGHTING	1500	1	A	2	1000	GYM LIGHTING CIRCUIT		20/1
20/1		OFFICE/OBBY LIGHTING	1000	3	B	4	1000	GYM LIGHTING CIRCUIT		20/1
20/1		MEETING AREA LIGHTING	600	5	C	6	1000	GYM LIGHTING CIRCUIT		20/1
20/1		OUTDOOR REC AT RTU'S	360	7	A	8	60	LP-101 LIGHTING CONTROL PANEL		15/1
20/1		EXISTING BRANCH CIRCUIT	540	9	B	10	1134	EXHAUST FAN EF-1		20/3
20/1		EXISTING BRANCH CIRCUIT	540	11	C	12	1134	↓		↓
20/1		EXISTING BRANCH CIRCUIT	540	13	A	14	1134	↓		↓
20/1		EXISTING BRANCH CIRCUIT	540	15	B	16	45	CENTRAL BATTERY CB-1	LO	15/1
20/1		EXISTING BRANCH CIRCUIT	540	17	C	18	540	LCP-101 CONTROL POWER		20/1
20/1		EXISTING BRANCH CIRCUIT	540	19	A	20	540	EXISTING BRANCH CIRCUIT		20/1
20/1		EXISTING BRANCH CIRCUIT	540	21	B	22	540	EXISTING BRANCH CIRCUIT		20/1
20/1		EXISTING BRANCH CIRCUIT	540	23	C	24	540	EXISTING BRANCH CIRCUIT		20/1
20/1		EXISTING BRANCH CIRCUIT	540	25	A	26	540	EXISTING BRANCH CIRCUIT		20/1
20/1		EXISTING BRANCH CIRCUIT	540	27	B	28	540	EXISTING BRANCH CIRCUIT		20/1
20/1		EXISTING BRANCH CIRCUIT	540	29	C	30	540	EXISTING BRANCH CIRCUIT		20/1
<b>Connected Load Per Phase</b>			<b>PH A:</b>	<b>#REF!</b>	<b>PH B:</b>	<b>#REF!</b>	<b>PH C:</b>	<b>#REF!</b>		
Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	Amps	
6300	3402	0	4140	0	0	6035		19877	55.2	
<b>Connected VA Demand Factor</b>										
1.25	1.00	1.00	NEC	1.00	1.00	1.00				
<b>Demand VA</b>	3402	0	4140	0	0	6035		21452	59.5	

PANEL SEP		VOLTAGE: 208/120V	3 PH 4W	2400A		MCB	AIC RATING: 35K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
1000/3		MDP	89500	1	A	2	105448	PANEL MDP2		1200/3
↓		↓	89500	3	B	4	108138	↓		↓
↓		↓	89500	5	C	6	104791	↓		↓
60/3		SURGE PROTECTIVE DEVICE	0	7	A	8	0	SPACE		↓
↓		↓	0	9	B	10	0	↓		↓
↓		↓	0	11	C	12	0	↓		↓
↓		↓	0	13	A	14	0	SPACE		↓
↓		↓	0	15	B	16	0	↓		↓
↓		↓	0	17	C	18	0	↓		↓
<b>Connected Load Per Phase</b>			<b>PH A:</b>	<b>194548</b>	<b>PH B:</b>	<b>197638</b>	<b>PH C:</b>	<b>194291</b>		
Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	Amps	
8328	85979	0	34810	0	0	457360		586477	1627.9	
<b>Connected VA Demand Factor</b>										
1.25	1.00	1.00	NEC	1.00	1.00	1.00				
<b>Demand VA</b>	85979	0	22405	0	0	457360		576154	1599.3	

PANEL MDP2		VOLTAGE: 208/120V	3 PH 4W	1200A		MCB	AIC RATING: 35K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
1000/3		PANEL LP	3665	1	A	2	9000	RTU-5		60/3
↓		↓	2885	3	B	4	9000	↓		↓
↓		↓	1818	5	C	6	9000	↓		↓
1000/3		PANEL RP-1	2960	7	A	8	1000	ERV-5		15/3
↓		↓	4740	9	B	10	1000	↓		↓
↓		↓	3900	11	C	12	1000	↓		↓
225/3		PANEL RP-2	7350	13	A	14	60000	EW-1	LO	700/3
↓		↓	7520	15	B	16	60000	↓		↓
↓		↓	6980	17	C	18	60000	↓		↓
1000/3		PANEL RP-3	3480	19	A	20	0	PREPARED SPACE		
↓		↓	5400	21	B	22	0	PREPARED SPACE		
↓		↓	4500	23	C	24	0	PREPARED SPACE		
300/3		RTU-6	17593	25	A	26	0	PREPARED SPACE		
↓		↓	17593	27	B	28	0	PREPARED SPACE		
↓		↓	17593	29	C	30	0	PREPARED SPACE		
↓		↓	0	31	A	32	0	PREPARED SPACE		
↓		↓	0	33	B	34	0	PREPARED SPACE		
↓		↓	0	35	C	36	0	PREPARED SPACE		
↓		↓	0	37	A	38	0	PREPARED SPACE		
↓		↓	0	39	B	40	0	PREPARED SPACE		
↓		↓	0	41	C	42	0	PREPARED SPACE		
<b>Connected Load Per Phase</b>			<b>PH A:</b>	<b>105048</b>	<b>PH B:</b>	<b>108138</b>	<b>PH C:</b>	<b>104791</b>		
Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	Amps	
8328	85979	0	34810	0	0	188860		317977	882.6	
<b>Connected VA Demand Factor</b>										
1.25	1.00	1.00	NEC	1.00	1.00	1.00				
<b>Demand VA</b>	85979	0	22405	0	0	188860		307654	854.0	

PANEL LP		VOLTAGE: 208/120V	3 PH 4W	100A		MLO	AIC RATING: 10K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		GYM 133 LIGHTING	965	1	A	2	810	FITNESS LIGHTING		20/1
20/1		GYM 133 LIGHTING	965	3	B	4	20	LCP-135 CONTROL POWER		20/1
20/1		GYM 133 LIGHTING	965	5	C	6	273	ELECTRICAL STORAGE LIGHTS		20/1
20/1		LCP-133 CONTROL POWER	20	7	A	8	1320	WOMENS LOCKER AREA LIGHTS		20/1
20/1		CORRIDOR/OFFICE LIGHTS	700	9	B	10	1200	MENS LOCKER AREA LIGHTS		20/1
20/1		LOBBY LIGHTS	580	11	C	12	0	EMERGENCY BATTERY CB-2	LO	15/1
20/1		WALL PACKS	550	13	A	14	0	PREPARED SPACE		↓
20/1		SPARE	0	15	B	16	0	PREPARED SPACE		↓
20/1		SPARE	0	17	C	18	0	PREPARED SPACE		↓
20/1		SPARE	0	19	A	20	0	PREPARED SPACE		↓
20/1		SPARE	0	21	B	22	0	PREPARED SPACE		↓
20/1		SPARE	0	23	C	24	0	PREPARED SPACE		↓
20/1		SPARE	0	25	A	26	0	PREPARED SPACE		↓
20/1		SPARE	0	27	B	28	0	PREPARED SPACE		↓
20/1		SPARE	0	29	C	30	0	PREPARED SPACE		↓
20/1		SPARE	0	31	A	32	0	PREPARED SPACE		↓
20/1		SPARE	0	33	B	34	0	PREPARED SPACE		↓
20/1		SPARE	0	35	C	36	0	PREPARED SPACE		↓
20/1		SPARE	0	37	A	38	0	PREPARED SPACE		↓
20/1		SPARE	0	39	B	40	0	PREPARED SPACE		↓
20/1		SPARE	0	41	C	42	0	PREPARED SPACE		↓
<b>Connected Load Per Phase</b>			<b>PH A:</b>	<b>3665</b>	<b>PH B:</b>	<b>2885</b>	<b>PH C:</b>	<b>1818</b>		
Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	Amps	
8328	0	0	0	0	0	40		8368	23.2	
<b>Connected VA Demand Factor</b>										
1.25	1.00	1.00	NEC	1.00	1.00	1.00				
<b>Demand VA</b>	0	0	0	0	0	40		10450	29.0	

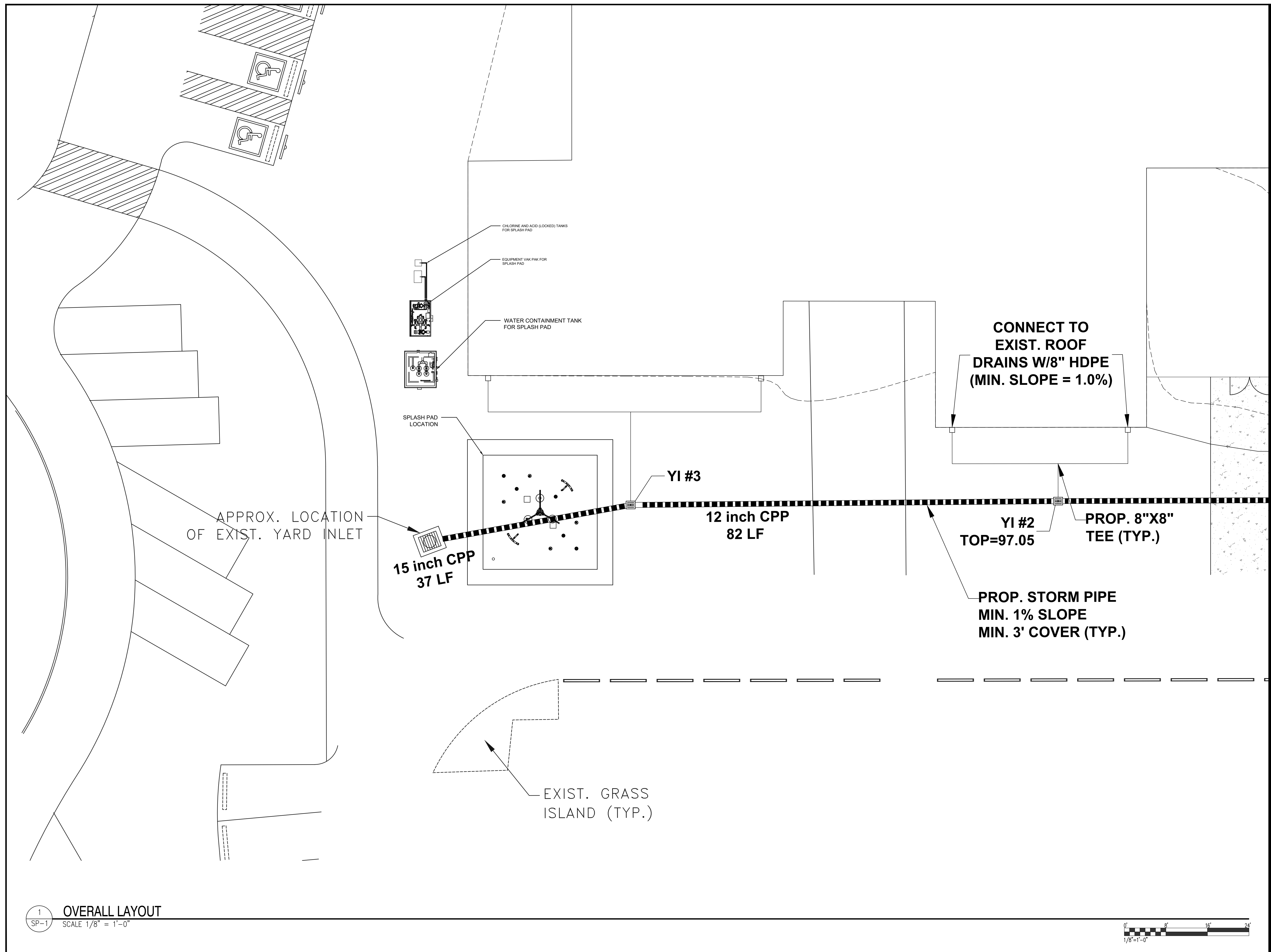
**PANEL SCHEDULE NOTES:**  
 LO PROVIDE PERMANENT LOCKING PROVISIONS  
 G PROVIDE GFCI CIRCUIT BREAKER  
 H PROVIDE RED HANDLE-ON CIRCUIT BREAKER

PANEL RP-1		VOLTAGE: 208/120V	3 PH 4W	100A		MLO	AIC RATING: 10K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		RECEPTABLES - GYM 133	360	1	A	2	180	ROOFTOP SERVICE RECEPTACLE		20/1
20/1		RECEPTABLES - GYM 133	540	3	B	4	1500	EUH-1	J	20/2
20/1		RECEPTABLES - GYM 133	900	5	C	6	1500	↓		↓
20/1		RECEPTABLES - GYM 133	720	7	A	8	200	HWRP-1	J	15/1
20/1		SCOREBOARD RECEPTACLE	1200	9	B	10	750	BASKETBALL WINCH		20/1
20/1		ERV-5 CONTROL	100	11	C	12	750	BASKETBALL WINCH		20/1
20/1		SPARE	0	13	A	14	750	BASKETBALL WINCH		20/1
20/1		SPARE	0	15	B	16	750	BASKETBALL WINCH		20/1
20/1		SPARE	0	17	C	18	750	BASKETBALL WINCH		20/1
20/1		SPARE	0	19	A	20	750	BASKETBALL WINCH		20/1
20/1		SPARE	0	21	B	22	0	PREPARED SPACE		20/1
20/1		SPARE	0	23	C	24	0	PREPARED SPACE		20/1
20/1		SPARE	0	25	A	26	0	PREPARED SPACE		20/1
20/1		SPARE	0	27	B	28	0	PREPARED SPACE		20/1
20/1		SPARE	0	29	C	30	0	PREPARED SPACE		20/1
20/1		SPARE	0	31	A	32	0	PREPARED SPACE		20/1
20/1		SPARE	0	33	B	34	0	PREPARED SPACE		20/1
20/1		SPARE	0	35	C	36	0	PREPARED SPACE		20/1
20/1		SPARE	0	37	A	38	0	PREPARED SPACE		20/1
20/1		SPARE	0	39	B	40	0	PREPARED SPACE		20/1
20/1		SPARE	0	41	C	42	0	PREPARED SPACE		20/1
<b>Connected Load Per Phase</b>			<b>PH A:</b>	<b>2960</b>	<b>PH B:</b>	<b>4740</b>	<b>PH C:</b>	<b>4000</b>		
Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	Amps	
0	3200	0	3900	0	0	4600		11700	32.5	
<b>Connected VA Demand Factor</b>										
0	3200	0	3900	0	0	4600				

PANEL RP-2		VOLTAGE: 208/120V	3 PH 4W	225A		MLO	AIC RATING: 10K	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CTK	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		RECEPTABLES - FITNESS 136	720	1	A	2	360	RECEPTACLE - FITNESS TELE		20/1
20/1										



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APPROX. LOCATION  
 OF EXIST. YARD INLET

15 inch CPP  
 37 LF

12 inch CPP  
 82 LF

YI #2  
 TOP=97.05

PROP. 8"X8"  
 TEE (TYP.)

PROP. STORM PIPE  
 MIN. 1% SLOPE  
 MIN. 3' COVER (TYP.)

EXIST. GRASS  
 ISLAND (TYP.)

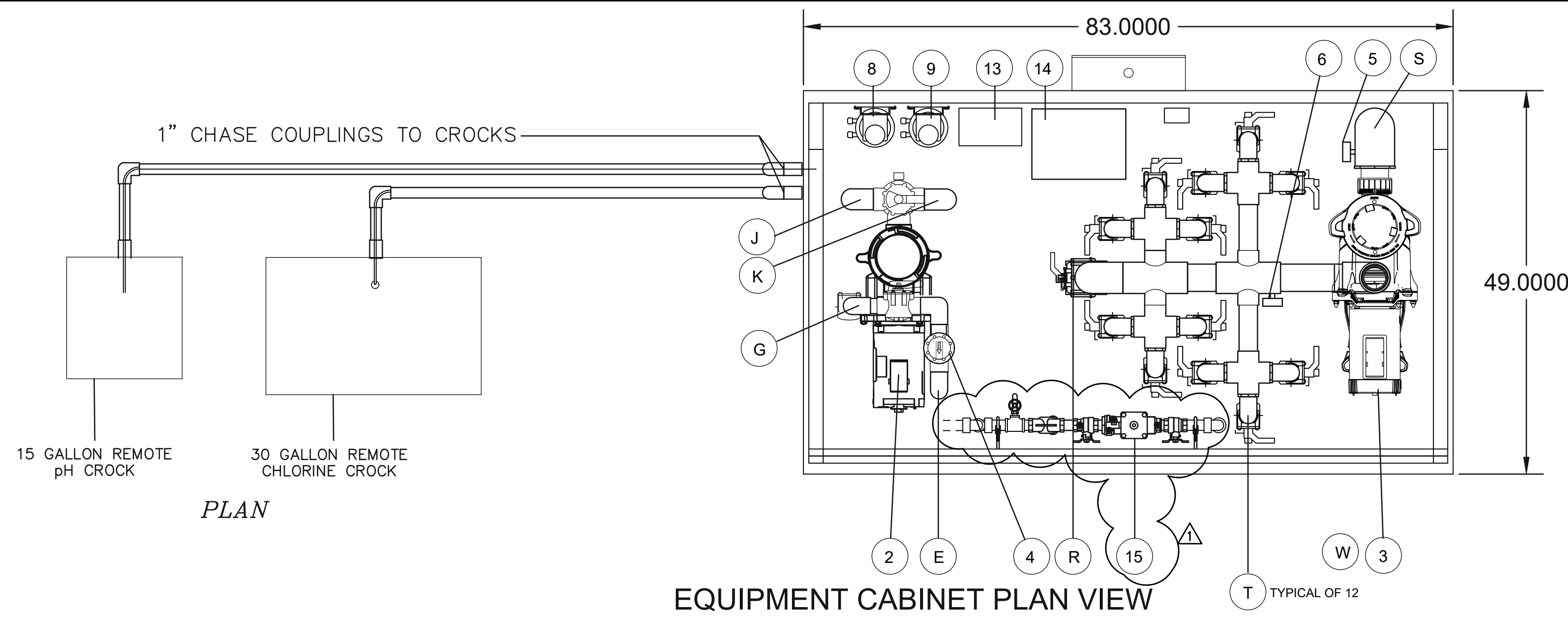
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1	REVISED PER DHEC COMMENTS	05.30.17	TDE
0	ISSUE FOR PERMIT/CONSTRUCTION	02.16.17	TDE

**COLLETON COUNTY  
 RECREATION CENTER**  
 280 Recreation Lane.  
 Walterboro, SC 29488

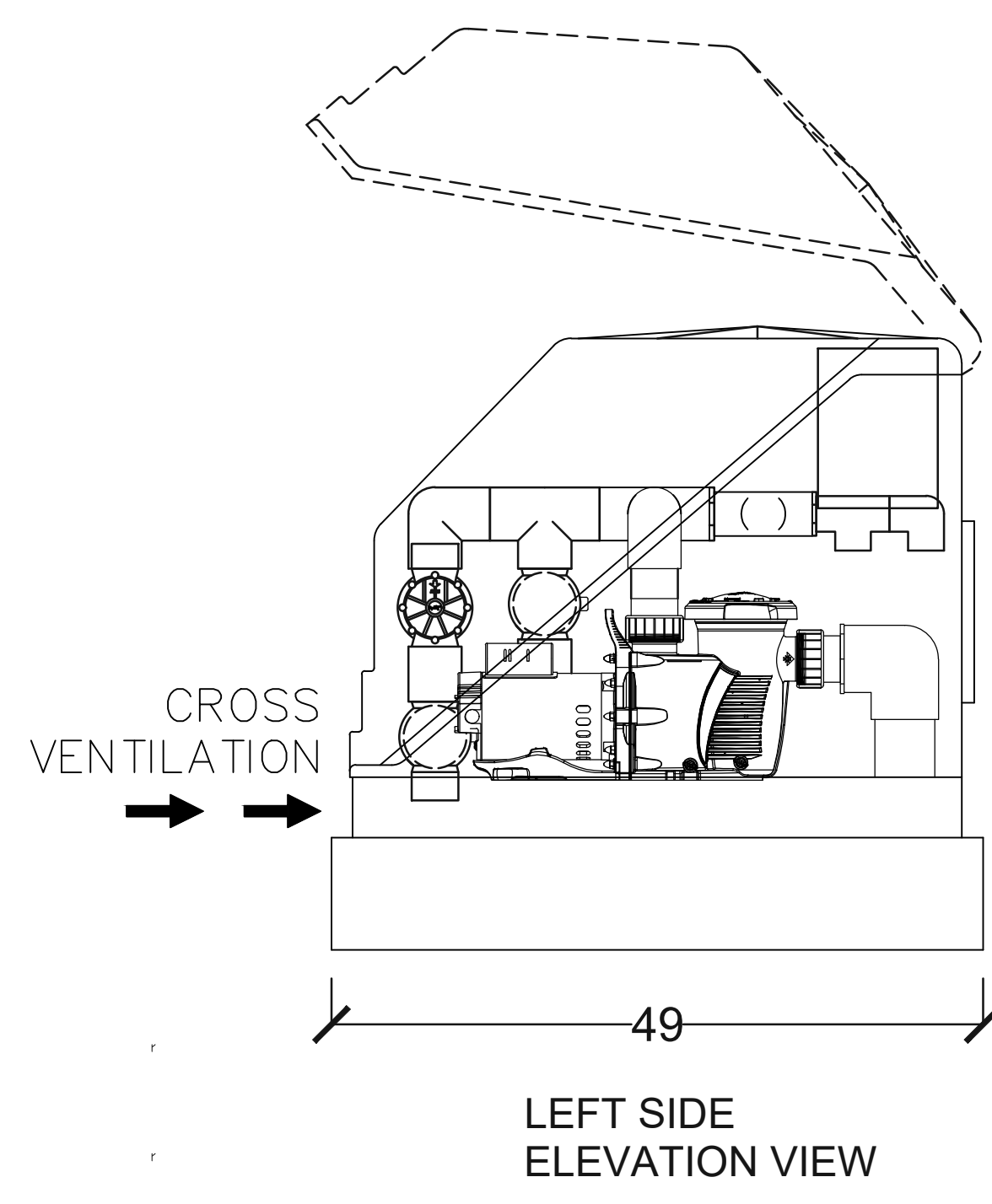
**SPLASH PAD  
 COVER SHEET**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170

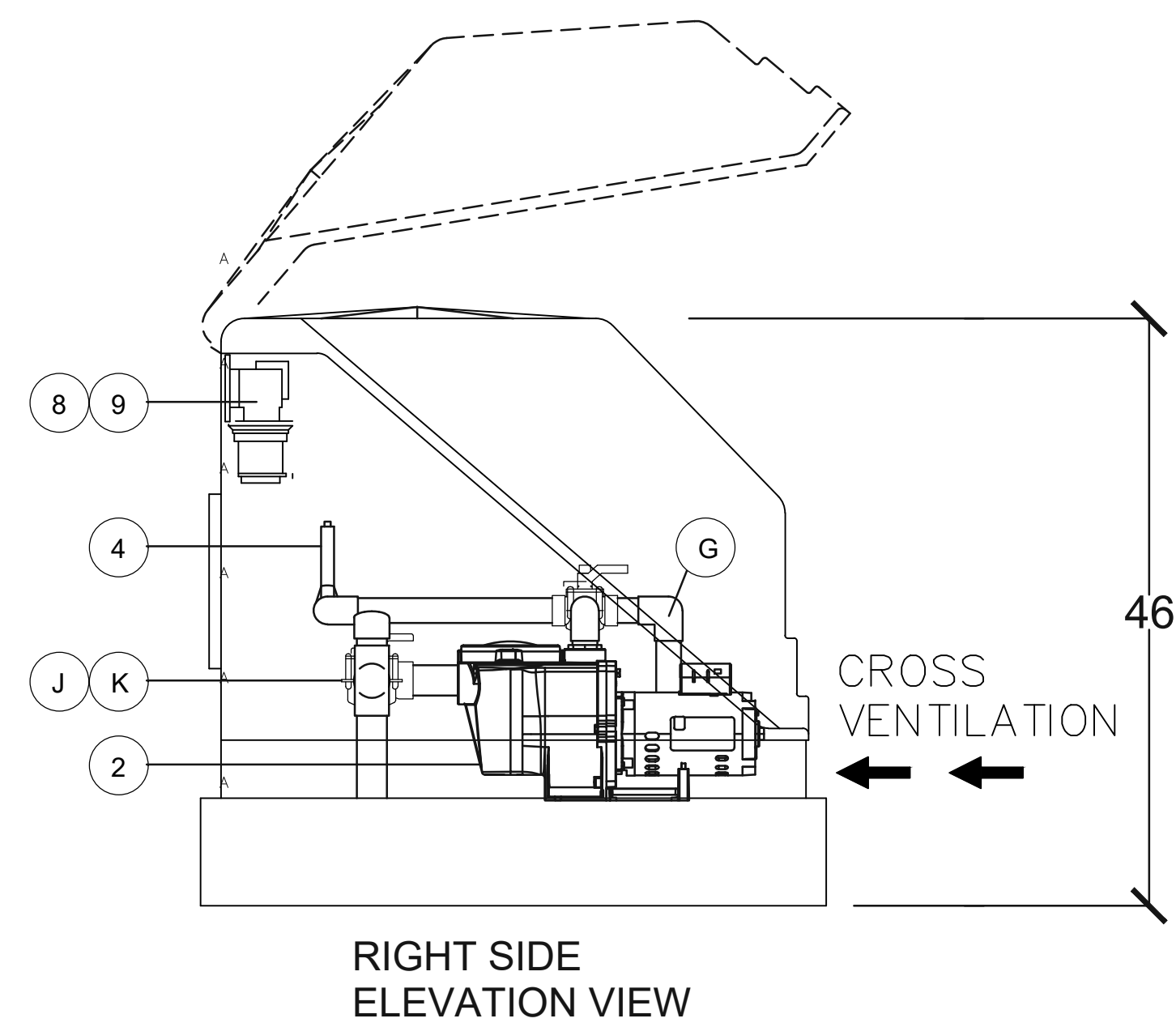
**SP-1**



EQUIPMENT CABINET PLAN VIEW

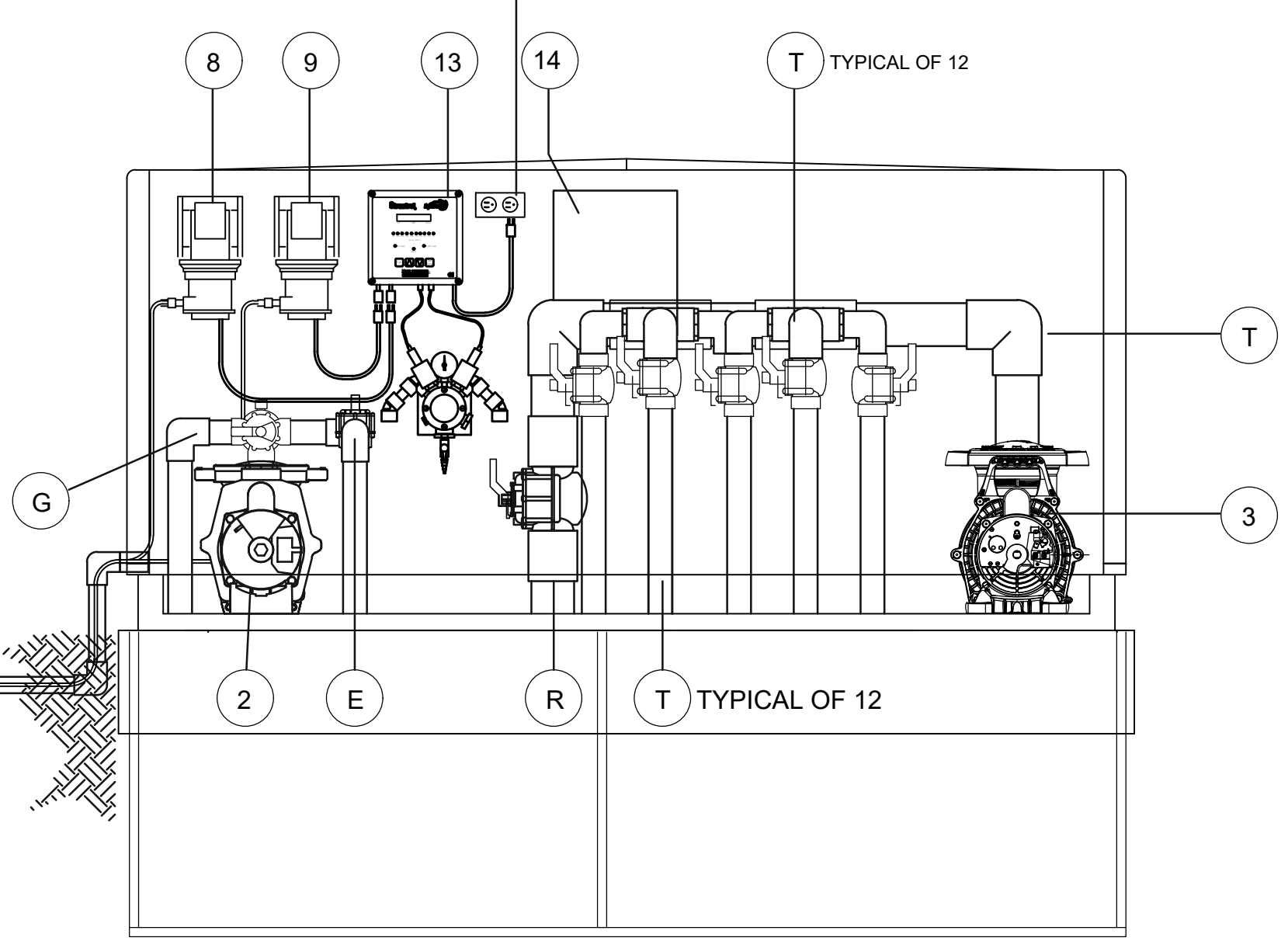


LEFT SIDE ELEVATION VIEW



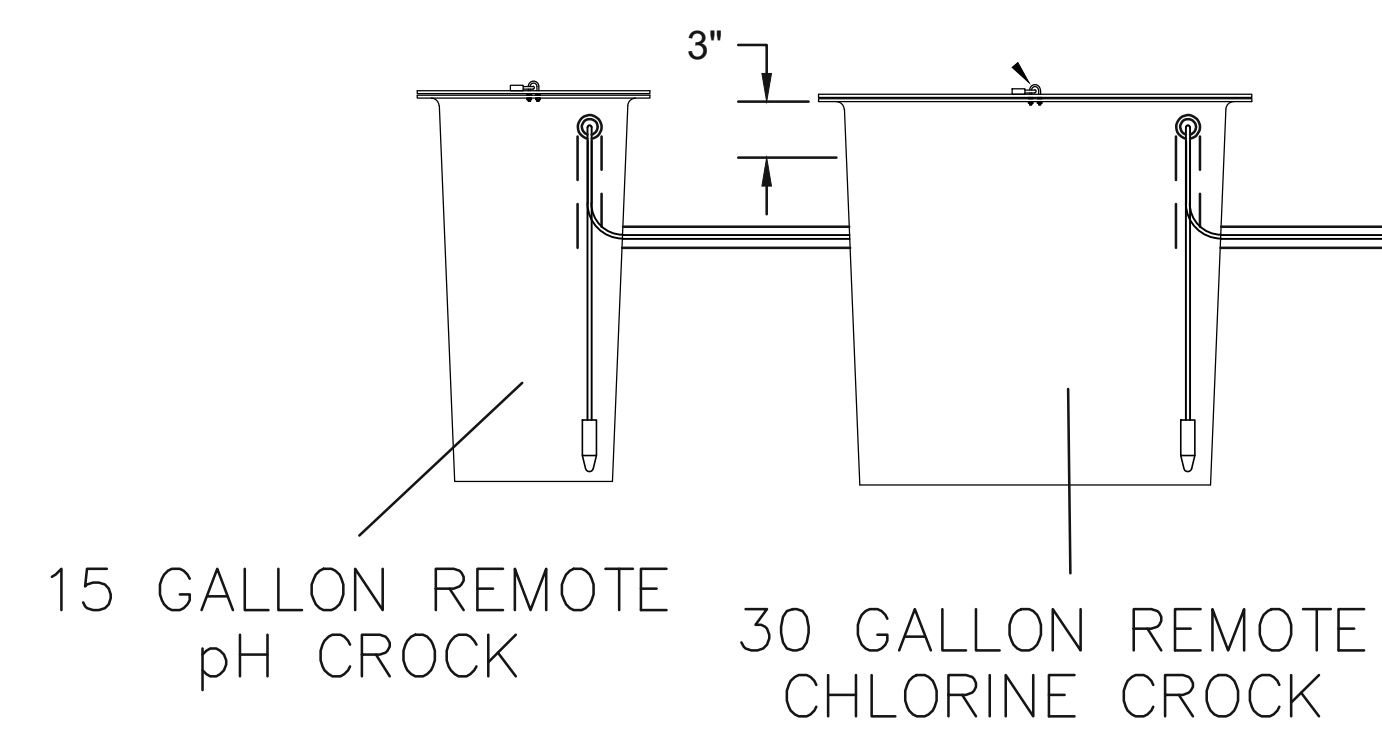
RIGHT SIDE ELEVATION VIEW

INTERLOCKED CHEMICAL RECEPTACLE



FRONT ELEVATION VIEW

NOTE: LEAVE AT LEAST 3" OR CROCK BODY ABOVE GRADE TO PREVENT WATER SEEPAGE



COMMERCIAL VACUUM CARTRIDGE FILTER SYSTEM	
CP200IWF-12CBRD 1,100 GALLONS IN 30 MINUTES	
45 GPM @ .375 GPM FILTER RATE, 150 SQ. FT. TOTAL	
①	1 - VAK PAK, DP150, CARTRIDGE FILTER, 150 SQ. FT.
②	1/2HP - PENTAIR RECIRCULATION PUMP WFE-2 1 PHASE 230 VOLTS, 45 GPM @ 55 TDH, 6" STRAINER
③	5HP - PENTAIR FEATURE PUMP XFE-20 1 PHASE 230 VOLTS, 232 GPM @ 55 TDH, 6" STRAINER
④	1.5" FLO-VIS FLOWMETER, MODEL FV-C-15 10 TO 90 GPM
⑤	VAC GAUGE 0# TO -30#, 2" FACE
⑥	PRESSURE GAUGE, 0#-60#, 2" FACE
⑦	(4)150 SQ.FT. VACUUM CARTRIDGE FILTER ELEMENTS, 600 SQ.FT. TOTAL FOR 100% FEATURE PUMP FILTRATION
⑧	CL2 FEEDER BY STENNER, MODEL 45M5, 50 GPD 30 GALLON REMOTE TANK, LABELED
⑨	PH FEEDER BY STENNER, MODEL 45M2, 10 GPD 15 GALLON REMOTE TANK, LABELED
⑫	1 PHASE 12 CIRCUIT MAIN LUG BREAKER PANEL WITH VAPOR PROOF SERVICE LIGHT 125A 120/208-230V
⑬	PENTAIR MODEL AK110 CHEMICAL CONTROLLER
⑭	RAIN-DROP MODEL TMR-008 PUMP TIMER
⑮	WATTS REGULATOR MODEL #009M2 RPZ BACKFLOW PREVENTER OR EQUAL

VALVES AND PIPE SIZES		POOL
A	MAIN DRAIN (COUPLING ONLY)	6"
E	FILTER RETURN TO TANK	1.5"
G	PUMP TO WASTE	1.5"
I	FRESH WATER FILL (HOSE BIBB W/VAC BKR)	1"
J	FILTER TANK DRAIN	2"
K	RECIRCULATION SUCTION	2"
O	COLLECTOR TANK OVERFLOW	2"
R	FEATURE BYPASS TO TANK	3"
S	FEATURE SUCTION	4"
T	FEATURE RETURNS	(12)1.5"
U	___ GALLON COLLECTOR TANK	1100

NOTES:  
ALL PIPING "NSF-PW" APPROVED / ALL ELECTRICAL WIRING IN COMPLIANCE WITH NEC  
ELECTRICAL INTERLOCK OF ELECTRICAL FEED EQUIPMENT WITH RECIRCULATION PUMP  
HYDRAULIC INTERLOCK OF EROSION FEED EQUIPMENT WITH RECIRCULATION PUMP FLOW  
PROPORTIONING VALVES WHEN REQUIRED: 3" AND UNDER - JANDY DIVERTER  
4" AND ABOVE - BUTTERFLY VALVE

MODEL #CP200IWF-12CBRD  
 RECORD # 27444  
 DHRS PRODUCT APPROVAL # -  
 DWG # CP-IWF-CBRD  
 COMMERCIAL FILTRATION/RECIRCULATION/DISPLAY SYSTEMS  
 VAKPAK inc.  
 P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403

COLLETON SPLASH PAD  
 WALTERBORO, SOUTH CAROLINA  
 REVISION 10/11/16 TK  
 CB502 CABINET

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0	ISSUE FOR PERMIT/CONSTRUCTION	02.16.17	TDE

**COLLETON COUNTY RECREATION CENTER**  
 280 Recreation Lane.  
 Waterboro, SC 29488

**EQUIPMENT VAK PAK**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170



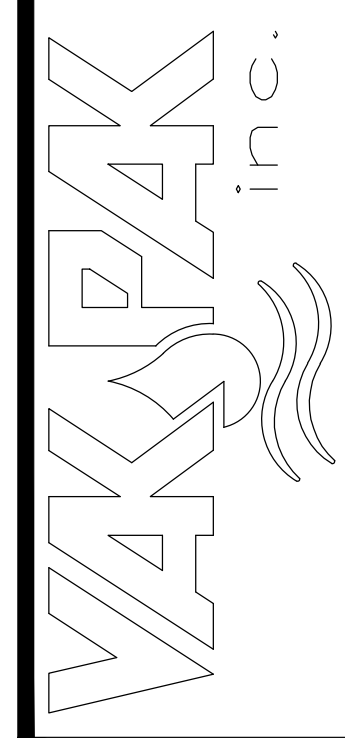
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COLLETON SPLASH PAD  
 1100 GAL. COLLECTOR TANK

MODEL # CT1000LP  
 RECORD # 27444  
 DWG # CT1000LP

COMMERCIAL  
 FILTRATION/RECIRCULATION/DISPLAY  
 SYSTEMS

P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403



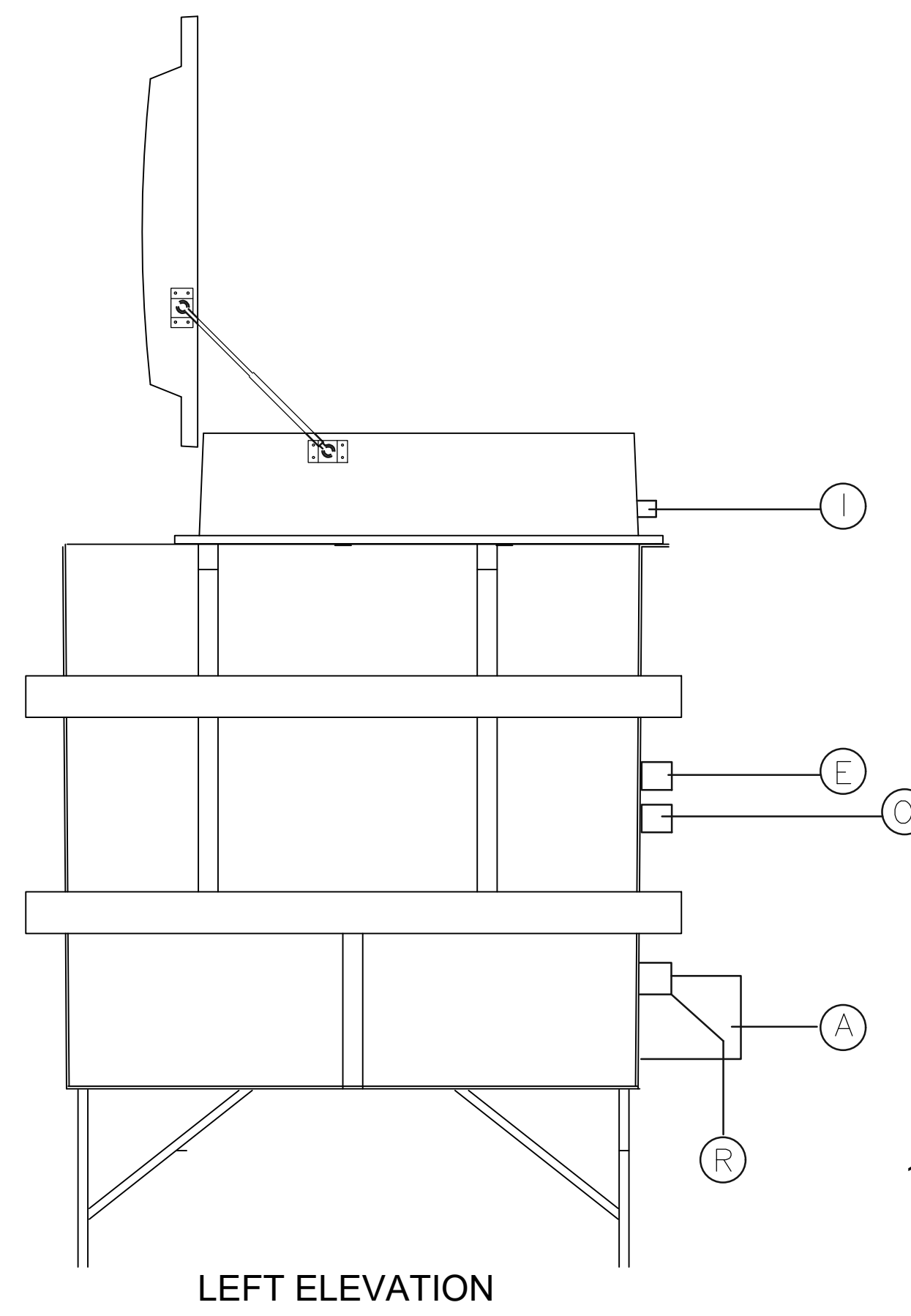
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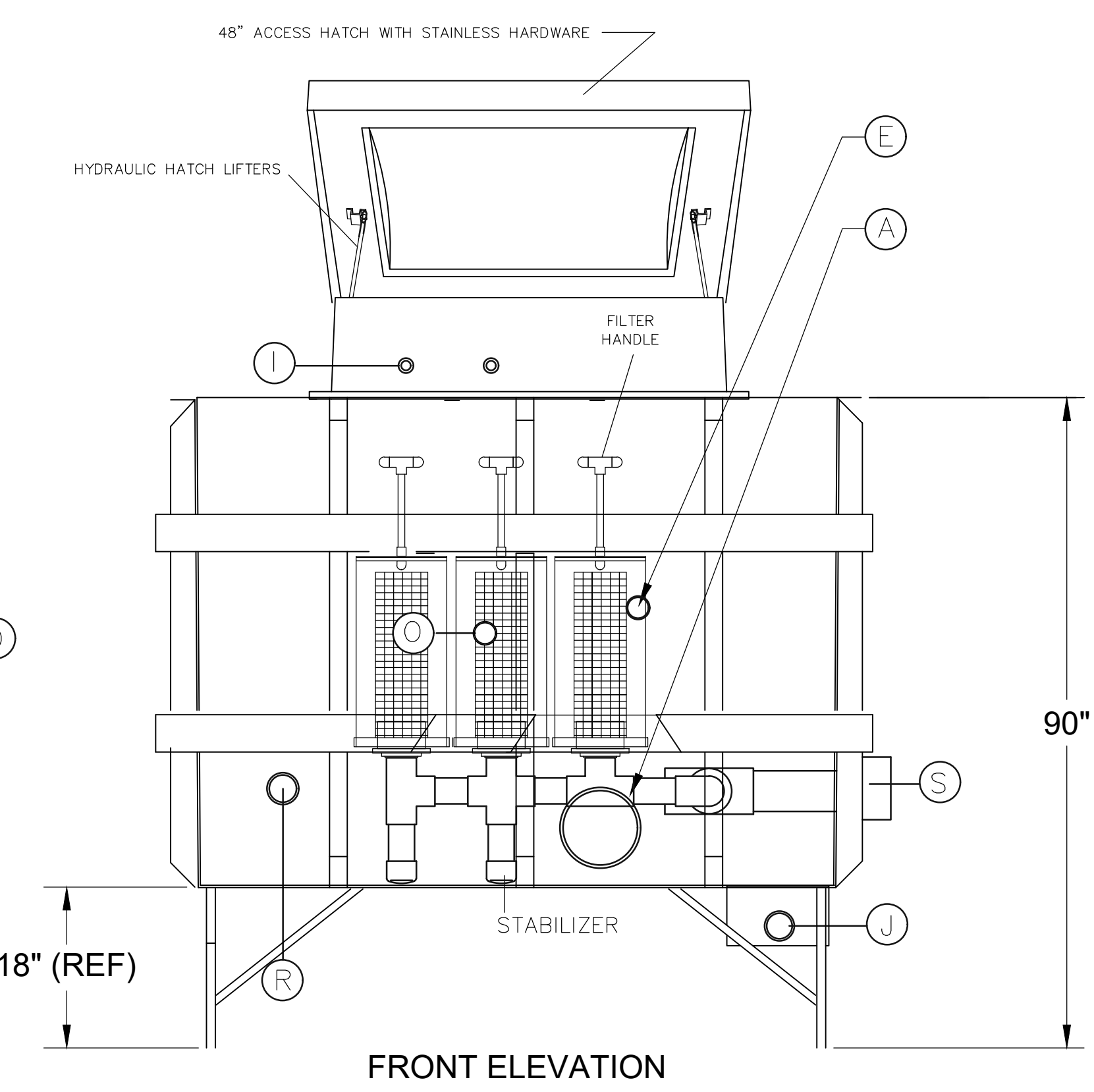
**VAK PAK WATER CONTAINMENT TANK**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170

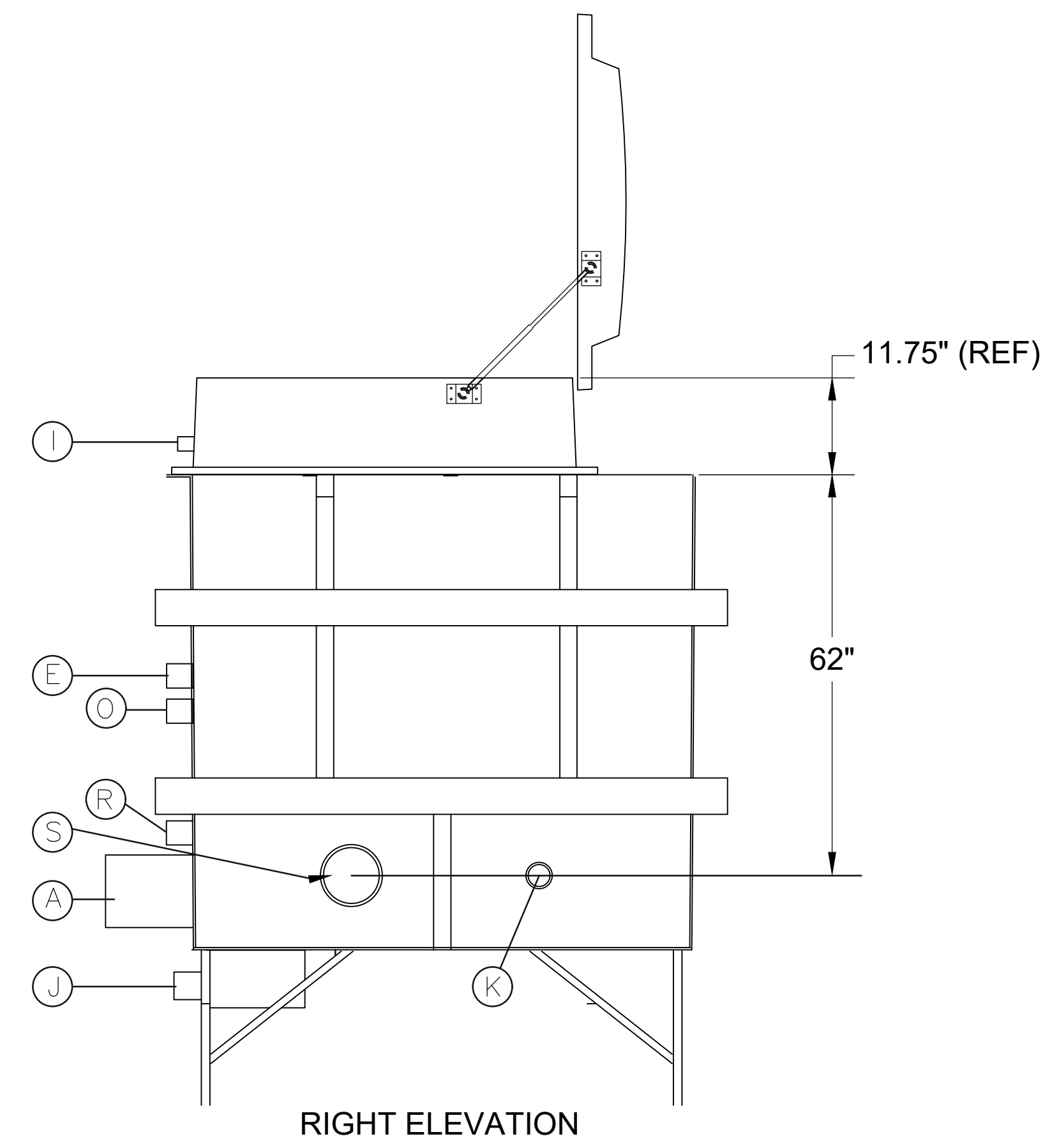
**SP-3**



LEFT ELEVATION

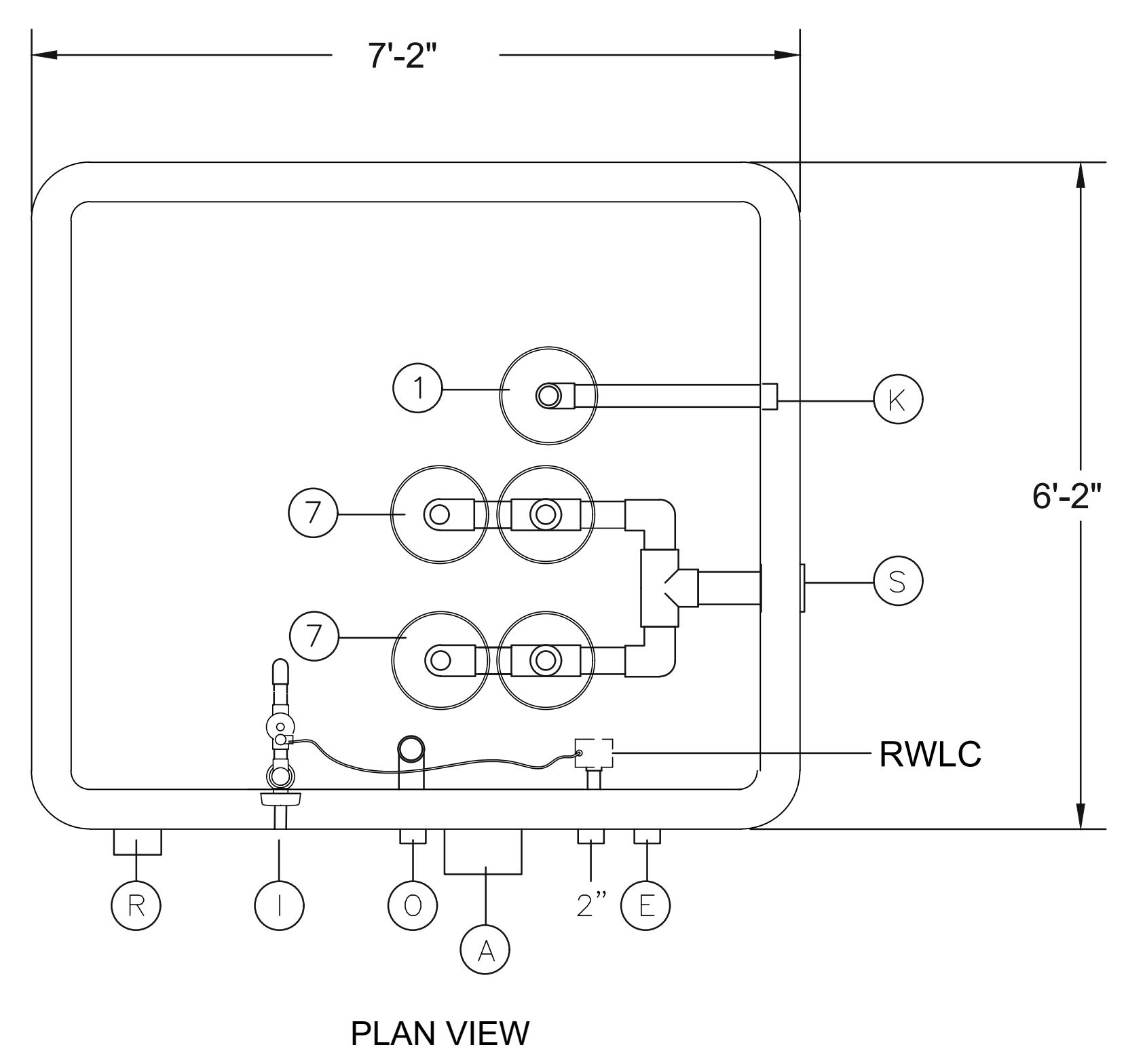


FRONT ELEVATION



RIGHT ELEVATION

VALVES AND PIPE SIZES		POOL
A	MAIN DRAIN (COUPLING ONLY)	6"
E	FILTER RETURN TO TANK	1.5"
G	PUMP TO WASTE	1.5"
I	FRESH WATER FILL (HOSE BIBB W/VAC BKR)	1"
J	FILTER TANK DRAIN	2"
K	RECIRCULATION SUCTION	2"
O	COLLECTOR TANK OVERFLOW	2"
R	FEATURE BYPASS TO TANK	3"
S	FEATURE SUCTION	4"
T	FEATURE RETURNS	(12) 2"
U	1100 GALLON COLLECTOR TANK	1100

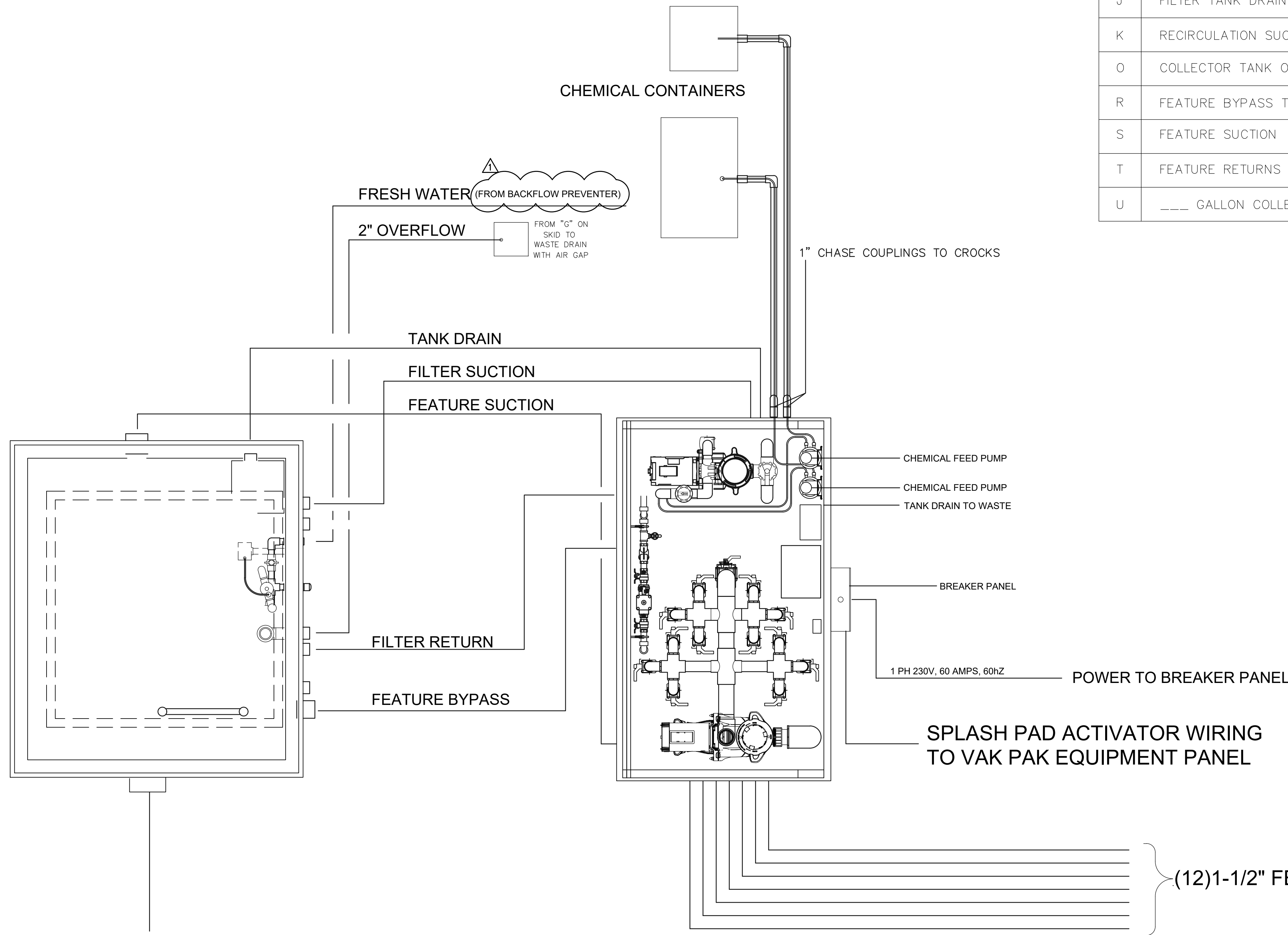


PLAN VIEW

- NOTES:
1. ALL TANKS HAVE COVED CORNERS
  2. ALL FILTER TANKS HAVE SLOPE FLOOR TO DRAIN.
  3. ALL PIPING "NSF-PW" APPROVED / ALL ELECTRICAL WIRING IN COMPLIANCE WITH NEC ELECTRICAL INTERLOCK OF ELECTRICAL FEED EQUIPMENT WITH RECIRCULATION PUMP HYDRAULIC INTERLOCK OF EROSION FEED EQUIPMENT WITH RECIRCULATION PUMP FLOW PROPORTIONING VALVES WHEN REQUIRED: 2 1/2" AND UNDER - JANDY DIVERTER 3" AND ABOVE - BUTTERFLY VALVE

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VALVES AND PIPE SIZES		POOL
A	MAIN DRAIN (COUPLING ONLY)	6"
E	FILTER RETURN TO TANK	1.5"
G	PUMP TO WASTE	1.5"
I	FRESH WATER FILL (RPZ BACKFLOW PREVENTER)	1"
J	FILTER TANK DRAIN	2"
K	RECIRCULATION SUCTION	2"
O	COLLECTOR TANK OVERFLOW	2"
R	FEATURE BYPASS TO TANK	3"
S	FEATURE SUCTION	4"
T	FEATURE RETURNS	(12)1.5"
U	--- GALLON COLLECTOR TANK	1100



MODEL # CP200IWF-12CBRD  
RECORD # 27444  
DHSR PRODUCT APPROVAL #  
DWG # CP-IWF-CBRD

COMMERCIAL  
FILTRATION/RECIRCULATION/DISPLAY  
SYSTEMS

**VAK PAK** inc.  
P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403

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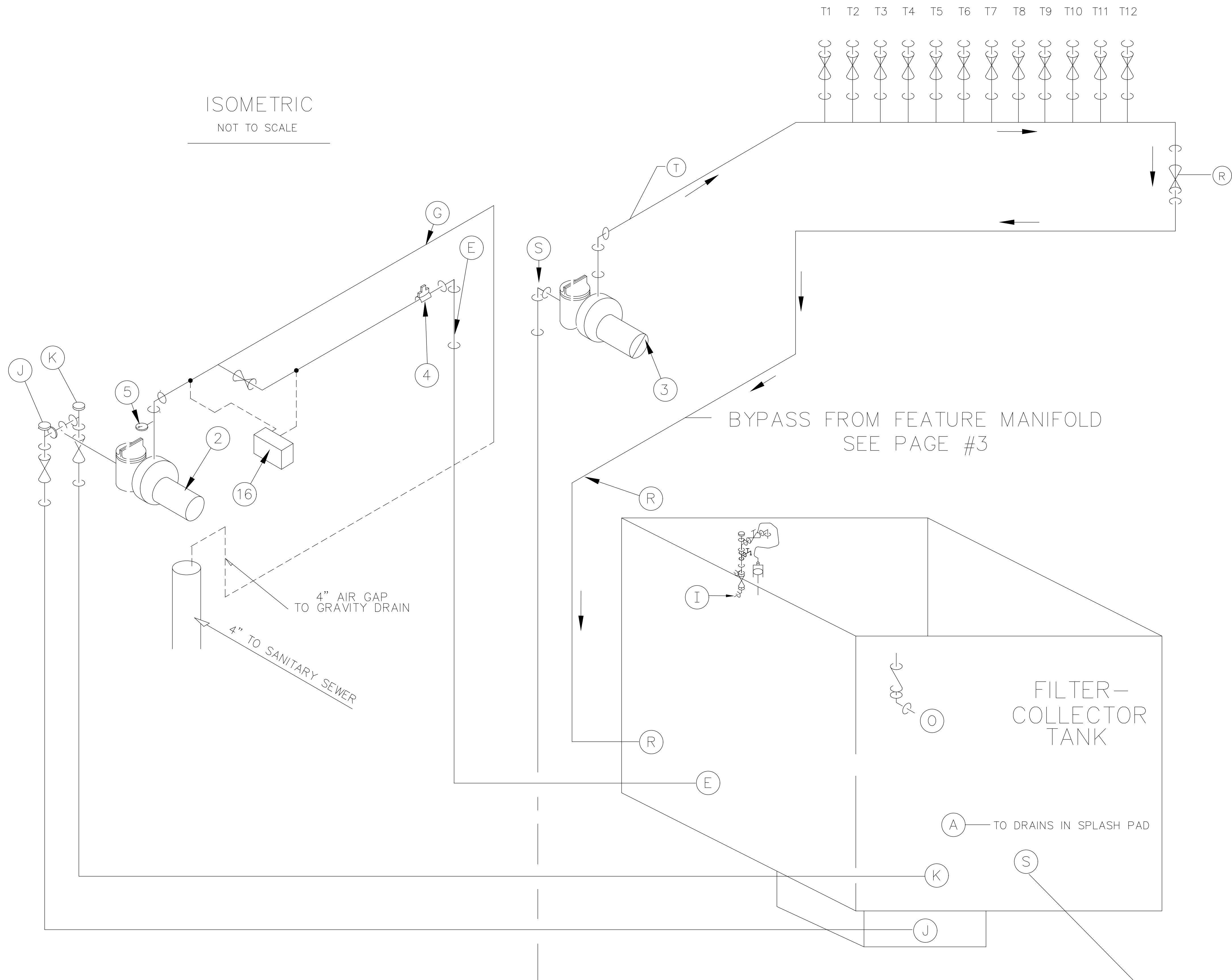
VAK PAK PLUMBING FROM EQUIPMENT TO CONTAINMENT TANK

DATE: 6.01.16  
DRAWN BY: TDE CHECKED BY: TDE  
PROJECT NO: 0170

**SP-4**  
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COLLETON SPLASH PAD  
WALTERBORO, SOUTH CAROLINA  
REVISION 10/11/16 TK  
CB502 CABINET





ISOMETRIC  
NOT TO SCALE

T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12

BYPASS FROM FEATURE MANIFOLD  
SEE PAGE #3

FILTER-COLLECTOR  
TANK

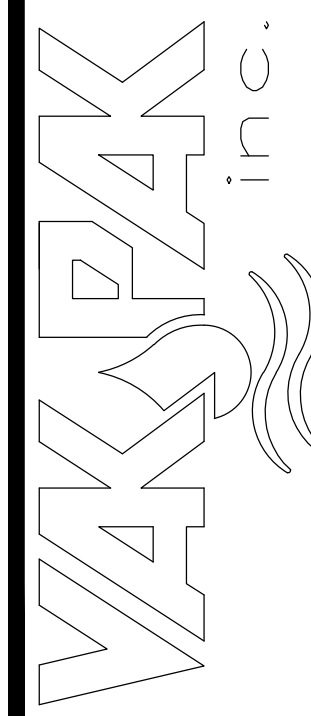
A TO DRAINS IN SPLASH PAD

4" AIR GAP  
TO GRAVITY DRAIN  
4" TO SANITARY SEWER

INTERACTIVE WATER FEATURE SYSTEM  
ISOMETRIC  
COLLETON SPLASH PAD  
WALTERBORO, SOUTH CAROLINA

MODEL # CP-2001WF-12  
RECORD # 27444  
DHS PRODUCT APPROVAL #  
DWG # CP-1WF-12

COMMERCIAL  
FILTRATION/RECIRCULATION/DISPLAY  
SYSTEMS  
P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403



**AQUATICS H<sub>2</sub>O**  
AQUATIC FACILITY CONSULTING  
P.O. BOX 654 DRAYTON, SC 29555  
O: (864) 285-4487 C: (864) 586-1498

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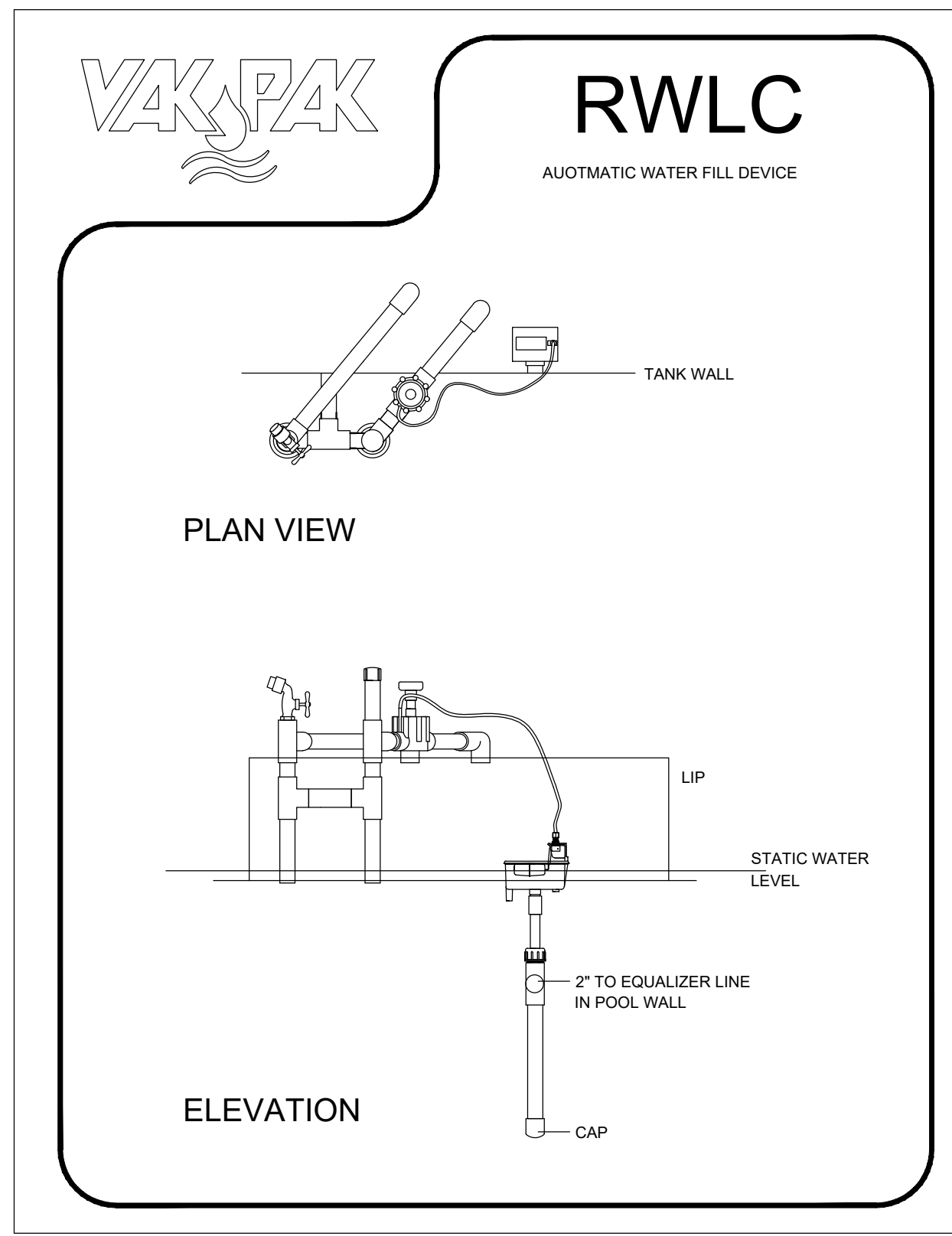
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280 Recreation Lane.  
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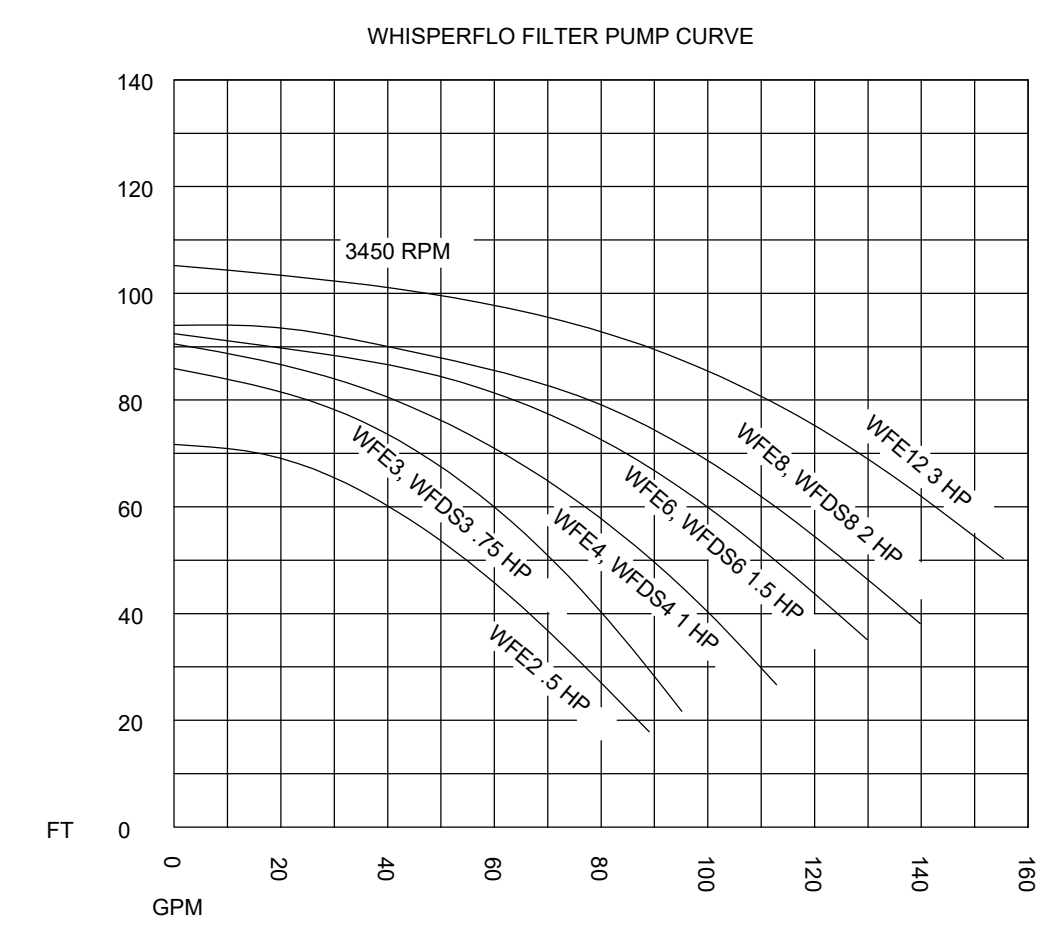
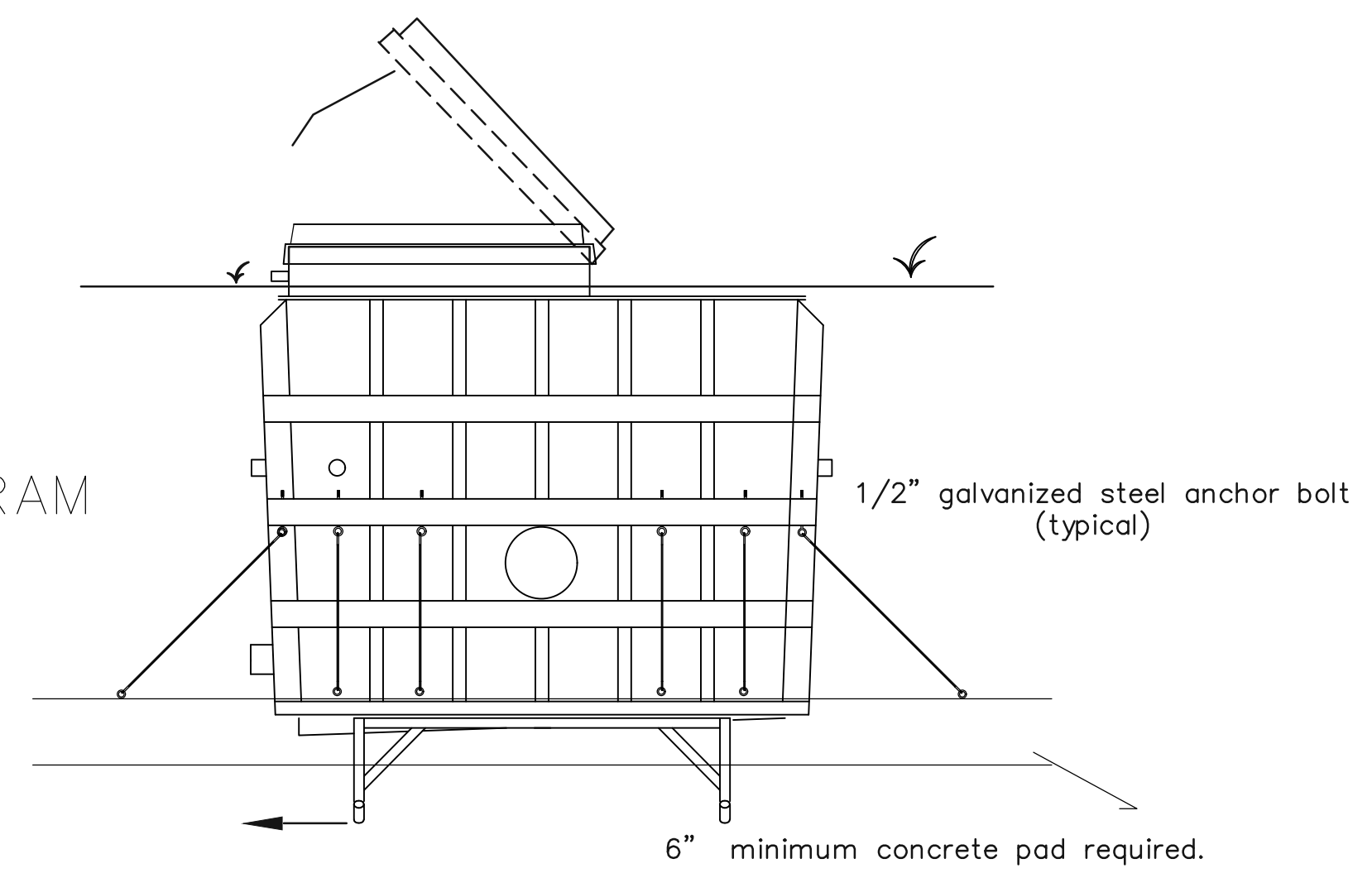
VAK PAK ISOMETRIC  
PLUMBING LAYOUT

DATE: 6.01.16  
DRAWN BY: TDE CHECKED BY: TDE  
PROJECT NO: 0170

**SP-5**



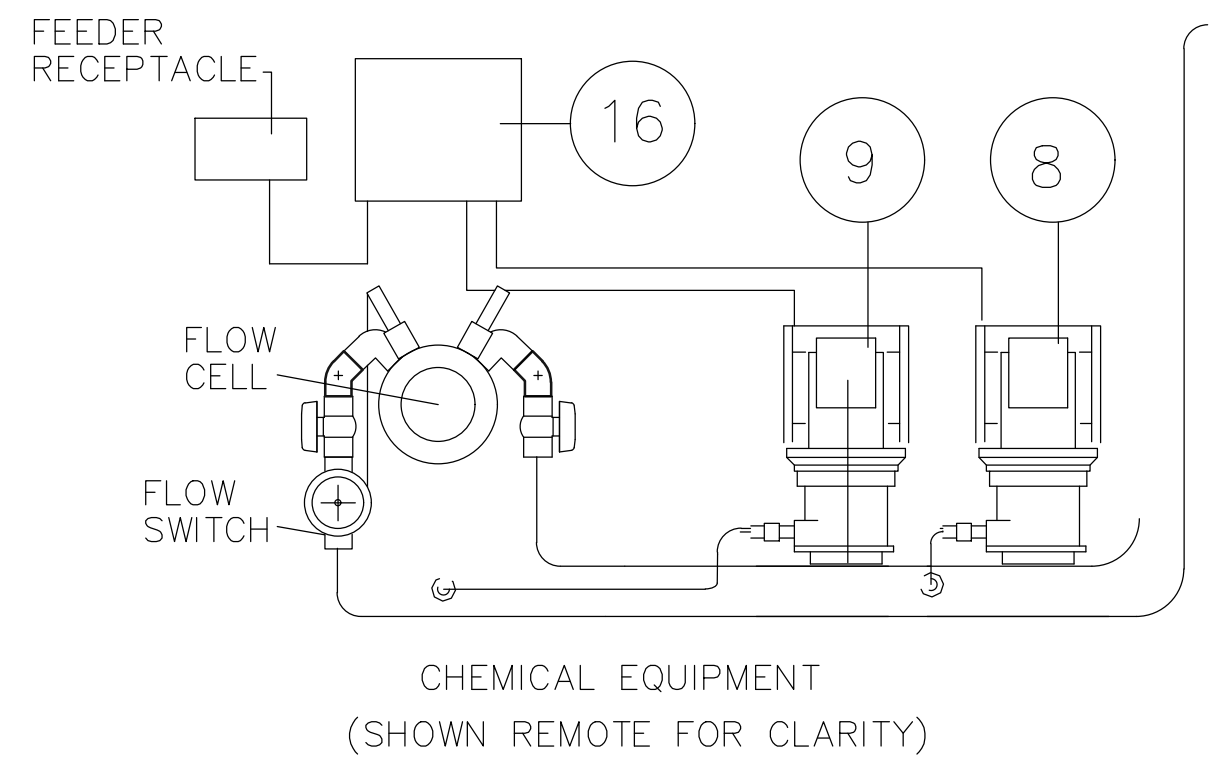
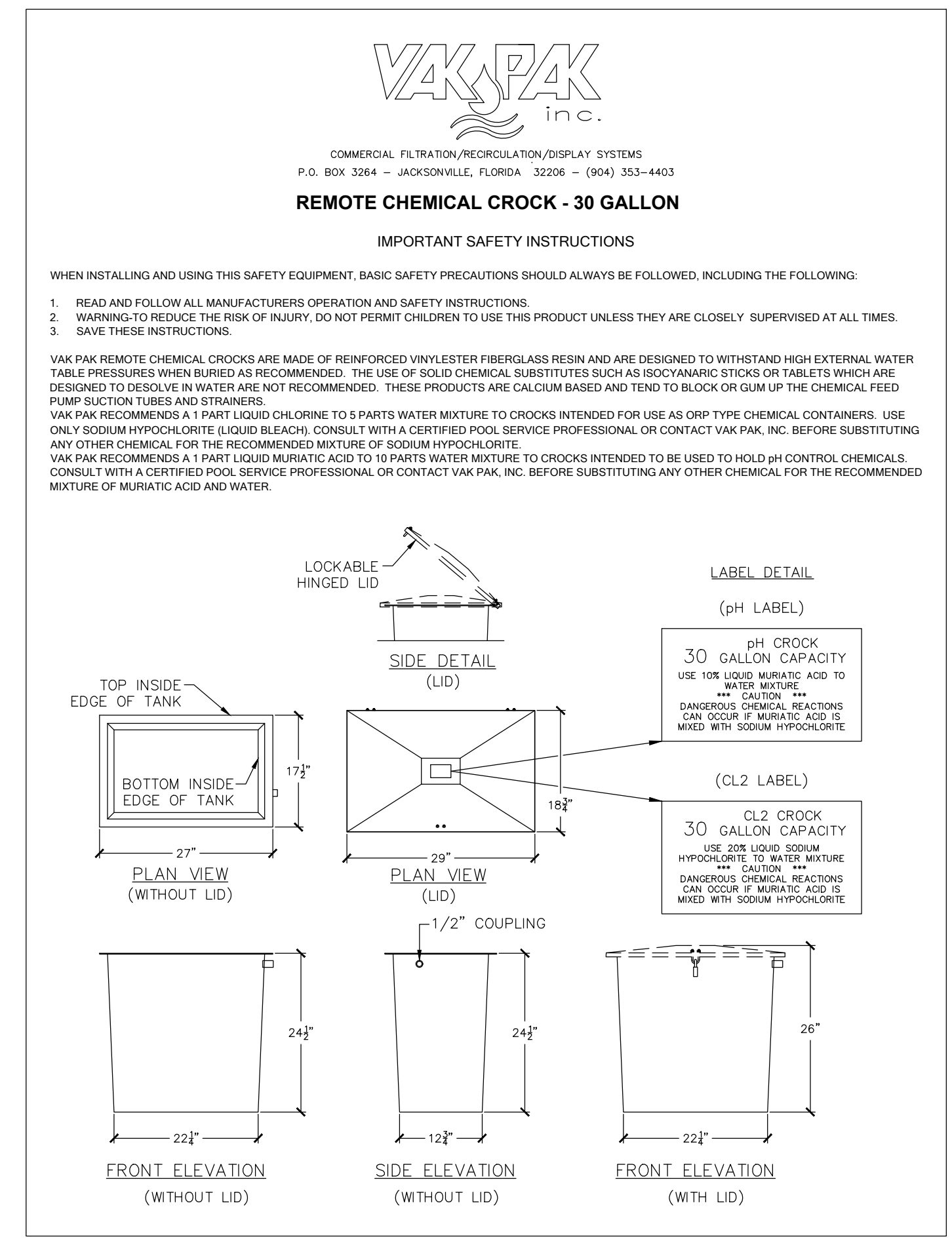
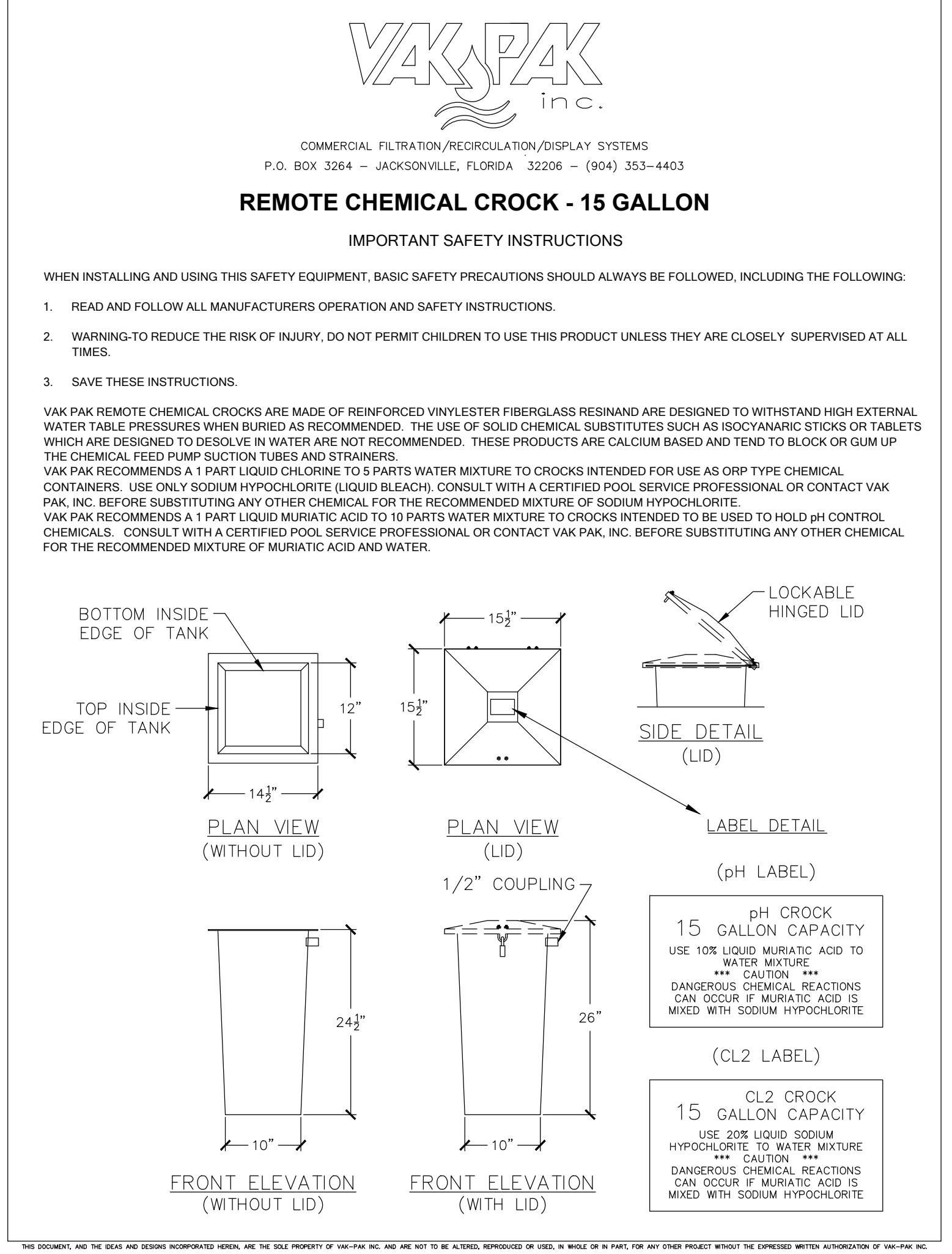
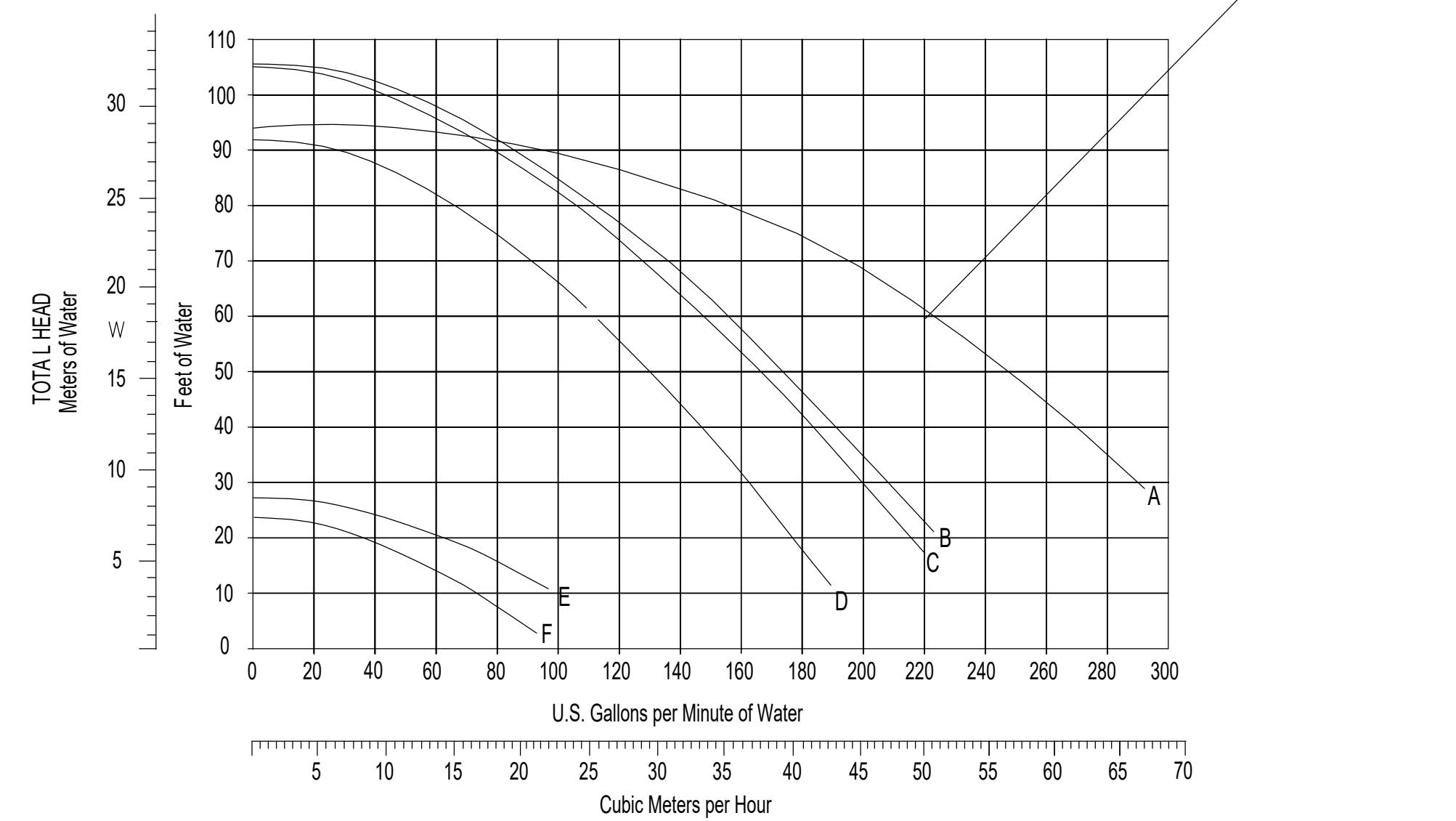
TYPICAL INSTALL DIAGRAM



PIPE SIZE	GPF	TOTAL FOOTAGE
1"	.040	*
1.5"	.092	*
2"	.163	*
2.5"	.255	*
3"	.368	*
4"	.654	*
6"	1.47	*
8"	2.617	*

NOTES:  
 ALL EXTERNAL PLUMBING TO TANK BY OTHERS.  
 12" OF 3/8" PEA GRAVEL OR SAND REQUIRED FOR BACKFILL AROUND TANK.  
 GALVANIZED STEEL ANCHOR BOLTS ATTACHED TO EXTERIOR OF VAULT FOR CABLE ATTACHMENT BY OTHERS.  
 48" NON-CORROSIVE ACCESS HATCH WITH STAINLESS STEEL HARDWARE AND 60# HYDRAULIC PISTON TYPE LIFTERS.  
 TANK MEETS OR EXCEEDS FLORIDA BUILDING CODE AND FLORIDA DEPARTMENT OF HEALTH 64E-9 REQUIREMENTS FOR INTERACTIVE WATER FEATURE COLLECTOR TANKS.

PERFORMANCE CURVES WHISPERFLO XF



INTERACTIVE WATER FEATURE SYSTEM COMPONENT DETAILS COLLETON PARK SPLASH PAD WALTERBORO, SOUTH CAROLINA  
 MODEL # CP200WF-12  
 RECORD # 27444  
 DHR'S PRODUCT APPROVAL #  
 DWG # CP-IWF-12  
 COMMERCIAL FILTRATION/RECIRCULATION/DISPLAY SYSTEMS  
 VAK PAK inc.  
 P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403

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 O. (864) 285-4487 C. (864) 586-1498

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NO.	REVISION	DATE	BY
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**COLLETON COUNTY RECREATION CENTER**  
 280 Recreation Lane.  
 Waterboro, SC 29488

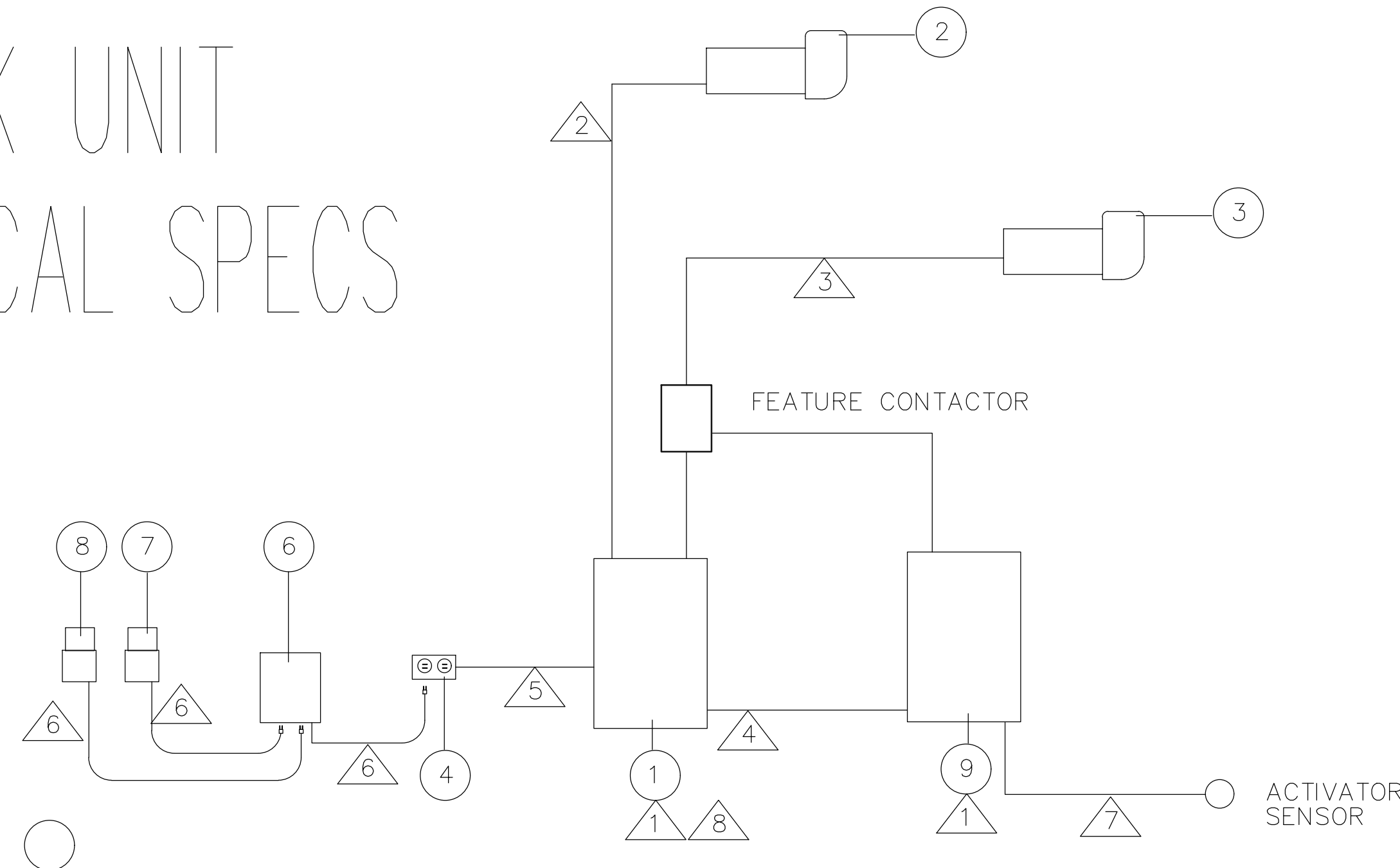
**VAK PAK WATER LEVEL CONTROL AND CHEMICAL CROCKS**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170

**SP-6**



# VAK PAK UNIT ELECTRICAL SPECS



#	manufacture	part#	description
1	SIEMENS	WO1224ML1125CU	Main lug breaker panel, 12 circuit, 125A capacity, 1 phase 120,208-230v
2	PENTAIR	WFE-2	1/2Hp Recirculation pump, 1 ph 230v
3	PENTAIR	XFE-20	5hp Feature pump, 1ph 208-230v
4	LEVITON	5320	chemical feeder receptacle, 115v
6	PENTAIR	AK110	Chemical controller, 115v
7	STENNER	45M5	Liquid Chlorine feeder, 115v
8	STENNER	45M2	Liquid pH feeder, 115v

#	CONDUCTORS				REMARKS
	PHASE	NEUTRAL	GROUND	CONDUIT	
1					PANEL FEED
2	2-#12		1-#12	1/2"	UL SEALTITE
3	2-#10		1-#10	3/4"	UL SEALTITE
4	1-#12	1-#12		1/2"	SEALTITE TO LIGHT
5	1-#14	1-#14	1-#14	1/2"	SEALTITE TO RECEPT.
6	1-#12	1-#12	1-#12		CORD AND PLUG
7	2-#16	1-#16			3 CONDUCTOR CORD
8	INDICATES WIRE AND CONDUIT INSTALLED BY OTHERS				

ALL 1 PHASE BREAKERS ARE GFCI RATED

PANEL SCHEDULE				
115/208-230V, 1 PHASE, 3 WIRE, 60Hz TYPE Q SURFACE MOUNT, 125A MLU				
CIRCUIT	POLES	TRIP	LOAD	AMPS
1	2	15A	RECIRC. PUMP W/INTERLOCKED REC.	8.8
2	2	30A	FEATURE PUMP	19.9
6	1	15A	SERVICE LIGHT	1.5
7	1	15A	TIME CONTROLLER	10.5
TOTAL LOAD				40.7

**VAK PAK inc.**  
COMMERCIAL - RESIDENTIAL  
FILTRATION / IRRIGATION / FOUNTAIN  
PUMP STATIONS - COMPONENTS  
P.O. Box 3264 - Jacksonville, Florida 32206 - (904) 353-4403

DRAWN/DATE	REVISIONS
Q1/17	
RECORD # 27444	
SCALE not to scale	
SHEET 1 of 1	

COLLETON PARK SPLASH PAD  
MODEL# CP2001WF-12  
1 PHASE 230 VOLTS



AQUATIC FACILITY CONSULTING  
PO BOX 654 DRAYTON, SC 29555  
O: (864) 285-4487 C: (864) 586-1498

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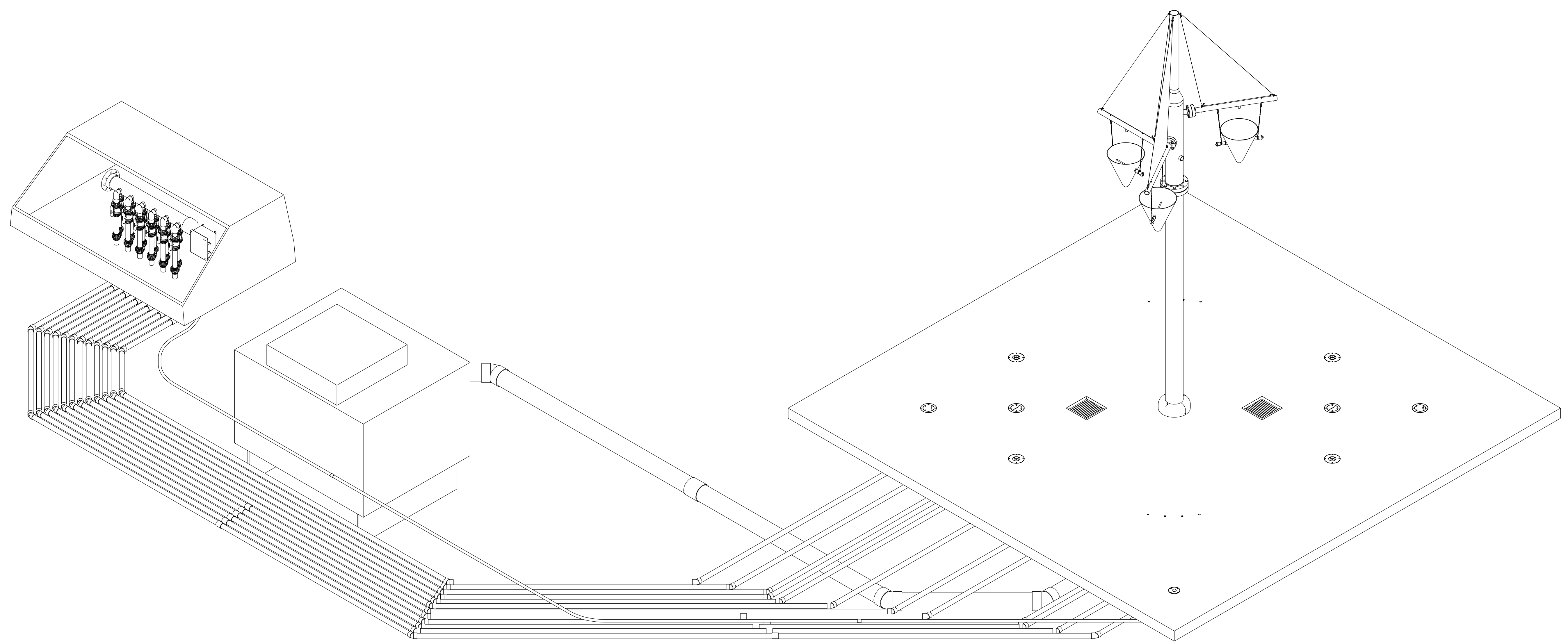
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VAK PAK ELECTRICAL

DATE: 6.01.16  
DRAWN BY: TDE CHECKED BY: TDE  
PROJECT NO: 0170

**SP-7**

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SIZE	PROJECT #	DWG NO	REV
B	13619	13619-2016-15C-WALTERBORO-COLLETON CO REC CTR-11	1
DRAWN		9/8/2016	SHEET OF 7
gwillis			

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NO.	REVISION	DATE	BY
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0	ISSUE FOR PERMIT/CONSTRUCTION	02.16.17	TDE

**COLLETON COUNTY RECREATION CENTER**  
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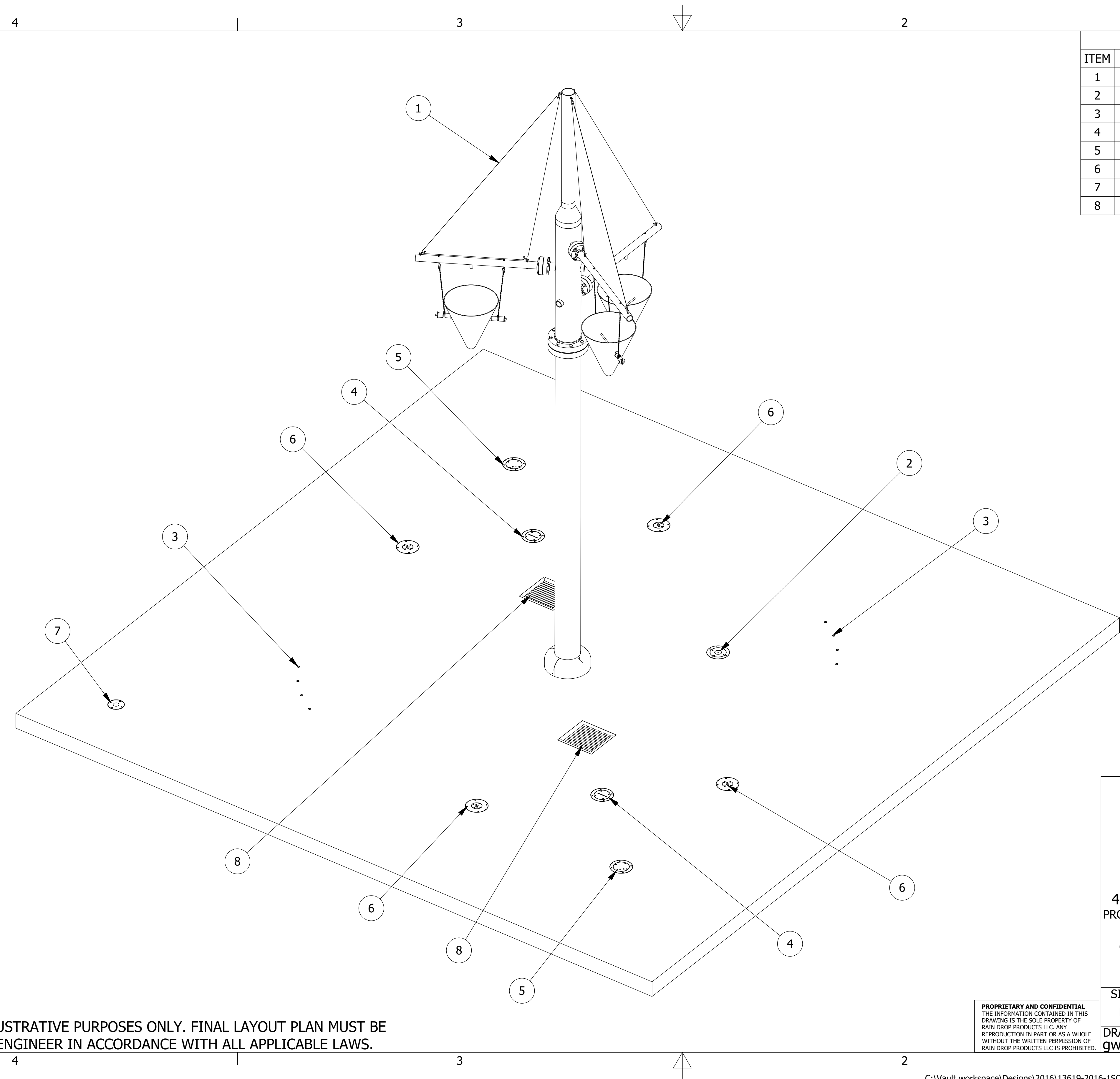
**SPLASHPAD ISOMETRIC LAYOUT**

DATE: 6.01.16  
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 PROJECT NO: 0170

**SP-8**



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PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	GPM
1	1	TBKT-004-OM	TUMBLE BUCKET X3 W/ SAIL, OMNI	46.7
2	1	TIER-002-OM	TWO TIER TOOLIP JET, OMNI	12.3
3	2	PPJT-004	POP JET, CURVED, 4 OUTLET	27
4	2	PCJT-001-OM	PEACOCK JET, OMNI	18.5
5	2	FNJT-003-OM	FAN JET, OMNI	7.6
6	4	SLJT-003-OM	SLANT JET, OMNI	3.8
7	1	ACT-A001	ACTIVATOR, STEP	N/A
8	2	DRN12-002	DRAIN-12X12X12 FIBERGLASS-6"	135

- NOTES -
- DESIGNS ARE PREPARED FOR REVIEW ONLY AND NOT INTENDED AS A CONSTRUCTION DOCUMENT.
  - CONCRETE PAD LAYOUT AND SIZE ARE FOR REFERENCE ONLY AND MAY BE ALTERED TO BEST ACCOMODATE EXISTING FIELD CONDITIONS.
  - CONSTRUCTION SHALL CONFORM TO THE LATEST STATE DEPARTMENT OF HEALTH STANDARDS AND SPECIFICATIONS, AND LOCAL SUPPLEMENTAL CODES AND SPECIFICATIONS.
  - CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONSTRUCTION MATERIAL AND LABOR TO PROPERLY CONNECT AND INSTALL EQUIPMENT AND WATER FEATURES.
  - AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOBSITE AT ALL TIMES.



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B	13619	13619-2016-1SC-WALTERBORO-COLLETON CO REC CTR-11	1
DRAWN		DATE	SHEET OF
gwillis		9/8/2016	7

NO.	REVISION	DATE	BY
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**SPLASHPAD FEATURE LAYOUT**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170

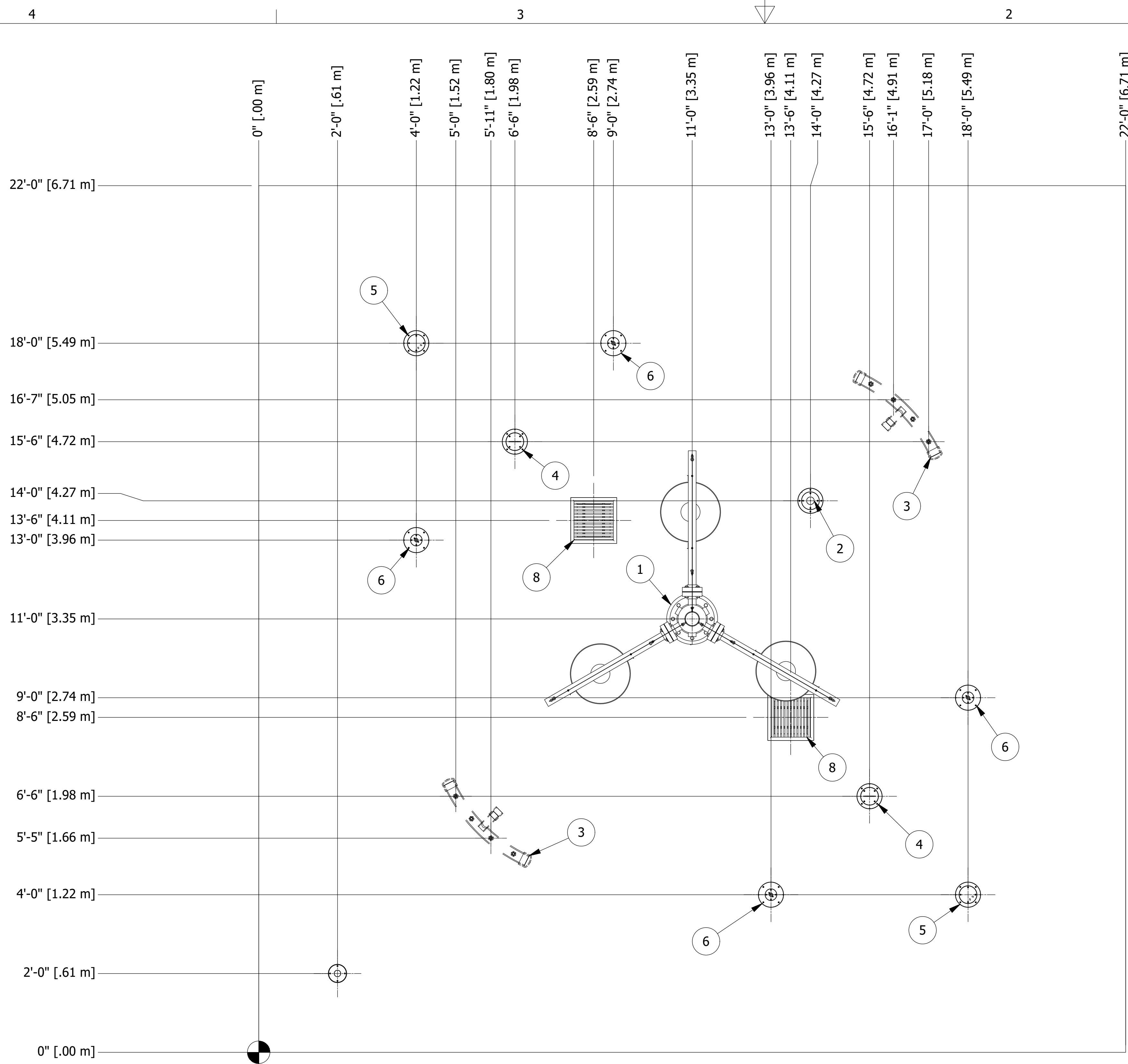
**SP-9**

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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TBKT-004-OM	TUMBLE BUCKET X3 W/ SAIL, OMNI
2	1	TIER-002-OM	TWO TIER TOOLIP JET, OMNI
3	2	PPJT-004	POP JET, CURVED, 4 OUTLET
4	2	PCJT-001-OM	PEACOCK JET, OMNI
5	2	FNJT-003-OM	FAN JET, OMNI
6	4	SLJT-003-OM	SLANT JET, OMNI
7	1	ACT-A001	ACTIVATOR, STEP
8	2	DRN12-002	DRAIN-12X12X12 FIBERGLASS-6"

- CONCRETE -
- 1 - CONCRETE PAD LAYOUT AND SIZE ARE FOR REFERENCE ONLY AND MAY BE ALTERED TO BEST ACCOMODATE EXISTING FIELD CONDITIONS.
  - 2 - ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH WITH 6% AIR ENTRAPMENT.
  - 3 - GRADE SHALL BE SLOPED 2% FROM THE PERIMETER TO THE MAIN DRAINS.
  - 4 - A 5 FOOT OVERSPRAY BUFFER ZONE IS INCORPORATED BETWEEN THE PERIMETER AND THE INTENDED AREA OF INFLUENCE, AND IS CALCULATED INTO THE OVERALL DIMENSIONS OF THE CONCRETE PAD.
  - 5 - ALL REINFORCEMENT STEEL SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH ACI 318-99, AND CRSI MSP-1-01.
  - 6 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
  - 7 - EACH WATER FEATURE SHALL BE LOCATED WITHIN A SINGLE CONCRETE PANEL UNLESS OTHERWISE NOTED.
  - 8 - OMNIPOD COVER MUST BE CAST FLUSH AND LEVEL WITH THE FINISHED CONCRETE SURFACE.
  - 9 - SURFACE SPRAY NOZZLES SHALL BE CAST FLUSH AND LEVEL WITH THE FINISHED CONCRETE.
  - 10 - EARTHFORMS MAY BE USED UNDER SLAB.
  - 11 - SPRAYGROUND AREA IS 484 SQUARE FEET [45 SQUARE METERS]



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B	13619	13619-2016-1SC-WALTERBORO-COLLETON CO REC CTR-11	1
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**SPLASHPAD DIMENSION LAYOUT**

DATE: 6.01.16  
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 PROJECT NO: 0170

**SP-10**

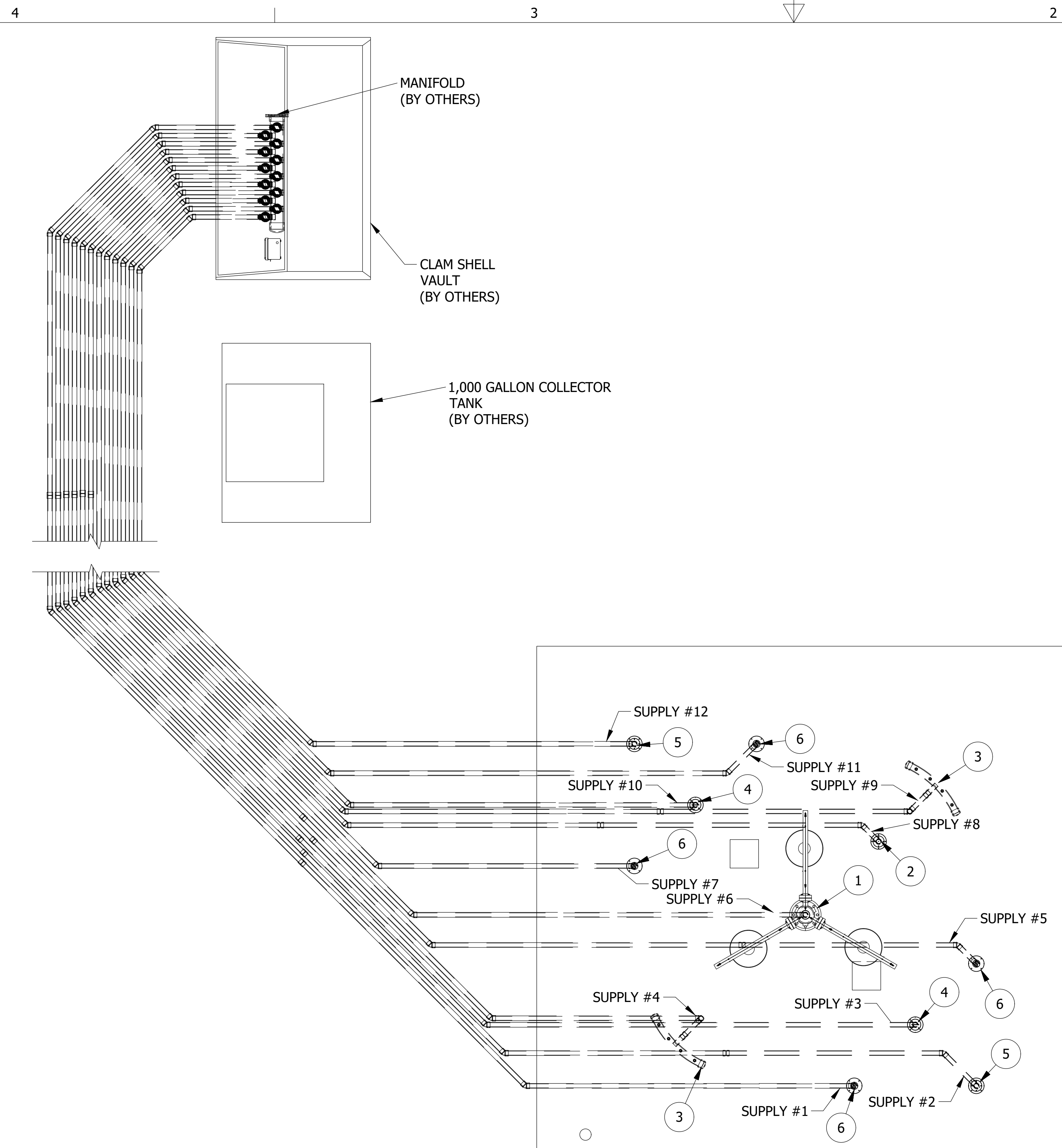
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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TBKT-004-OM	TUMBLE BUCKET X3 W/ SAIL, OMNI
2	1	TIER-002-OM	TWO TIER TOOLIP JET, OMNI
3	2	PPJT-004	POP JET, CURVED, 4 OUTLET
4	2	PCJT-001-OM	PEACOCK JET, OMNI
5	2	FNJT-003-OM	FAN JET, OMNI
6	4	SLJT-003-OM	SLANT JET, OMNI

- PVC PIPING -**
- 1 - SCHEDULE 80 PVC PIPE AND SOCKET TYPE FITTINGS SHALL CONFORM TO ASTM D2467, ASTM D1785-12, AND ALL APPLICABLE LOCAL CODES.
  - 2 - ALL PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL FOR POTABLE WATER.
  - 3 - ALL PIPING SHALL BE LABELED WITH DIRECTIONAL FLOW ARROWS.
  - 4 - ALL PIPING TO BE PRESSURE TESTED BEFORE POURING CONCRETE.
  - 5 - PIPING DESIGNED TO CARRY THE REQUIRED QUANTITIES OF WATER AT VELOCITIES NOT TO EXCEED 10 FPS OR PER LOCAL CODES AND REGULATIONS.
  - 6 - SUPPLY LINES TO BE CHEMICALLY WELDED TO OMNIPOD FEATURE RECIEVER.
  - 7 - ALL PIPING TO BE 2" SCHEDULE 80 PVC UNLESS OTHERWISE SPECIFIED.
  - 8 - DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH CONTRACTOR.



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**SPLASHPAD PLUMBING LAYOUT**

DATE: 6.01.16  
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**SP-11**

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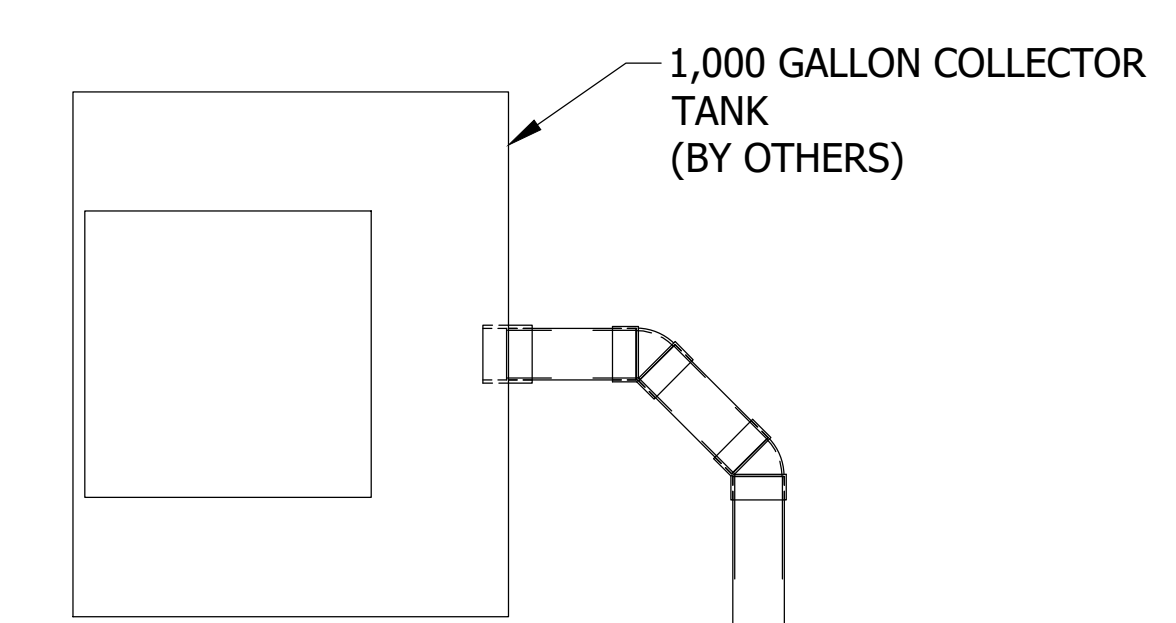
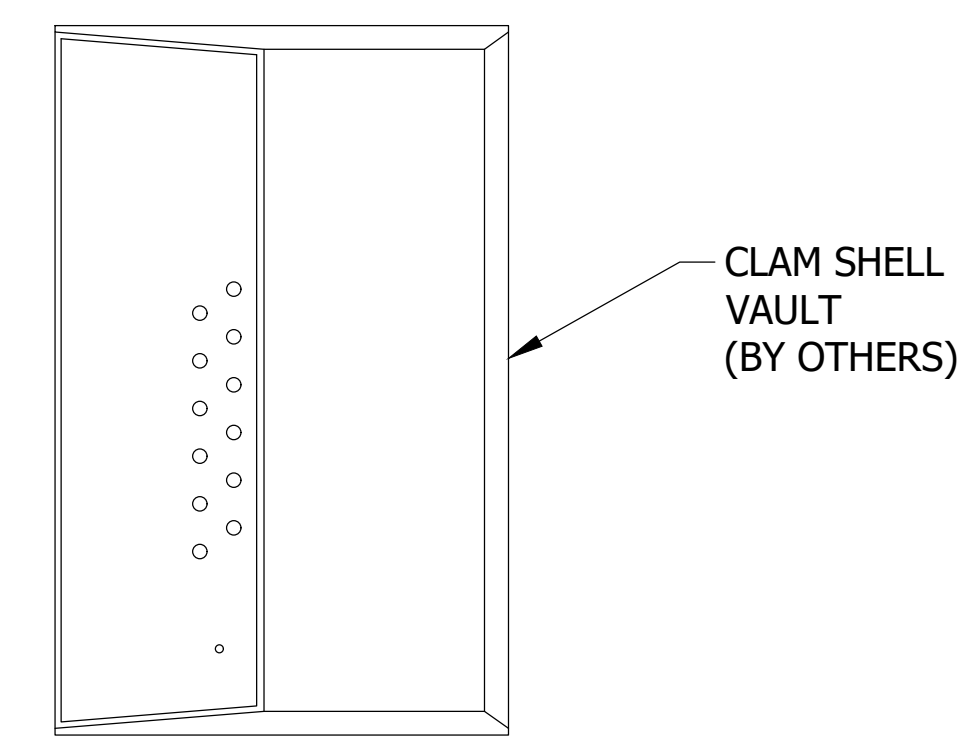
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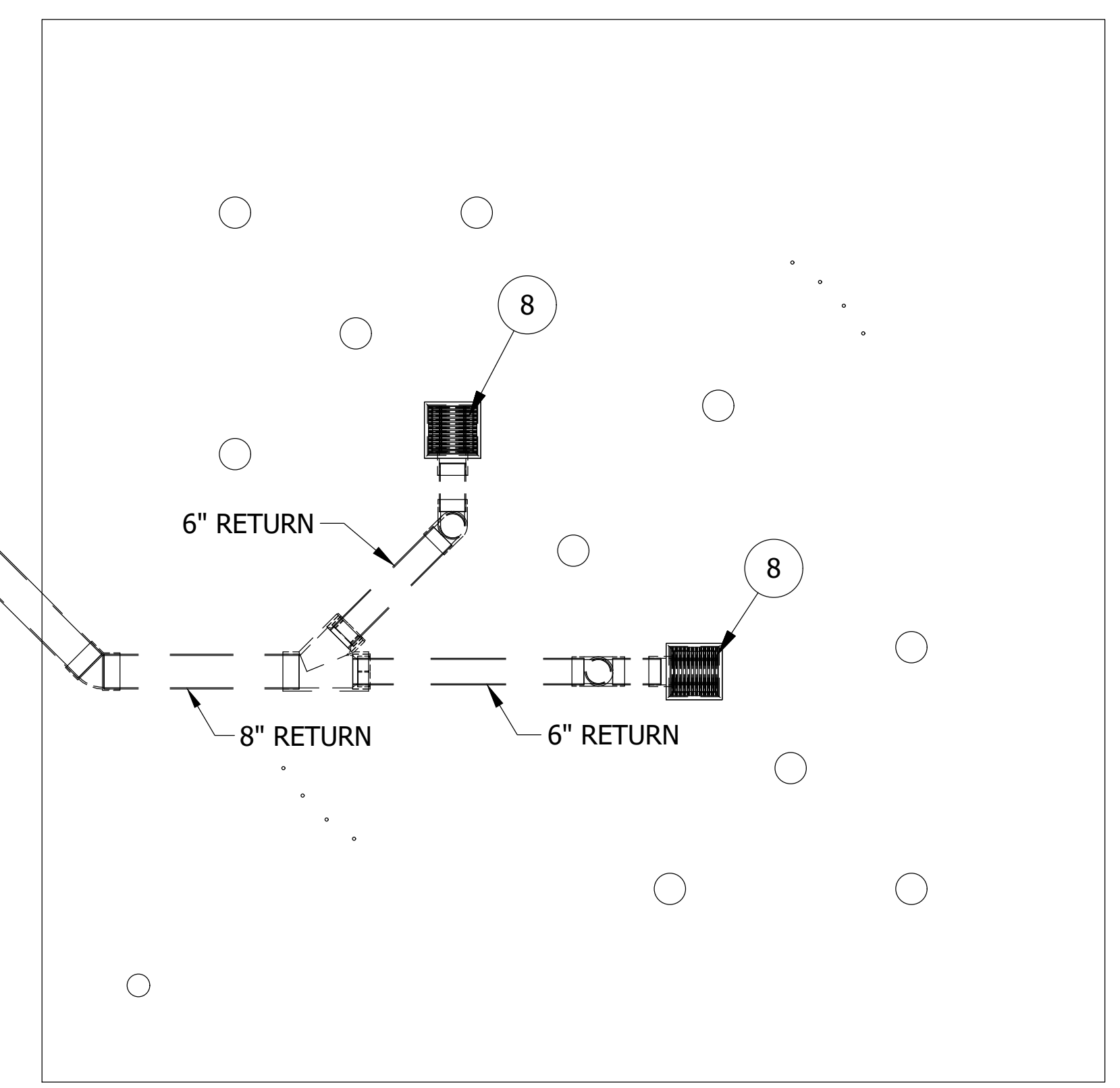
3

2

1



8" RETURN TO  
COLLECTOR  
TANK



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
8	2	DRN12-002	DRAIN-12X12X12 FIBERGLASS-6"

- DRAINS -**
- 1 - DRAIN PIPE AND FITTINGS SHALL CONFORM TO ASTM D2665. CONNECTIONS SHALL BE A SOLVENT WELD, UNLESS OTHERWISE SPECIFIED.
  - 2 - ALL PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL FOR POTABLE WATER.
  - 3 - ALL PIPING SHALL BE LABELED WITH DIRECTIONAL FLOW ARROWS.
  - 4 - SOLVENT WELD CEMENT FOR THE SOCKET CONNECTIONS SHALL MEET THE REQUIREMENTS OF ASTM D2564.
  - 5 - PIPING SHALL BE DESIGNED TO CARRY THE REQUIRED QUANTITIES OF WATER AT VELOCITIES NOT EXCEEDING 1.5 FEET PER SECOND IN GRAVITY PIPING.
  - 6 - ALL PIPING TO BE SLOPED 2% TO RESERVOIR.
  - 7 - DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE, RESERVOIR, AND SEDIMENT TRAP LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH CONTRACTOR.



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**SPLASHPAD MAIN DRAIN PLUMBING LAYOUT**

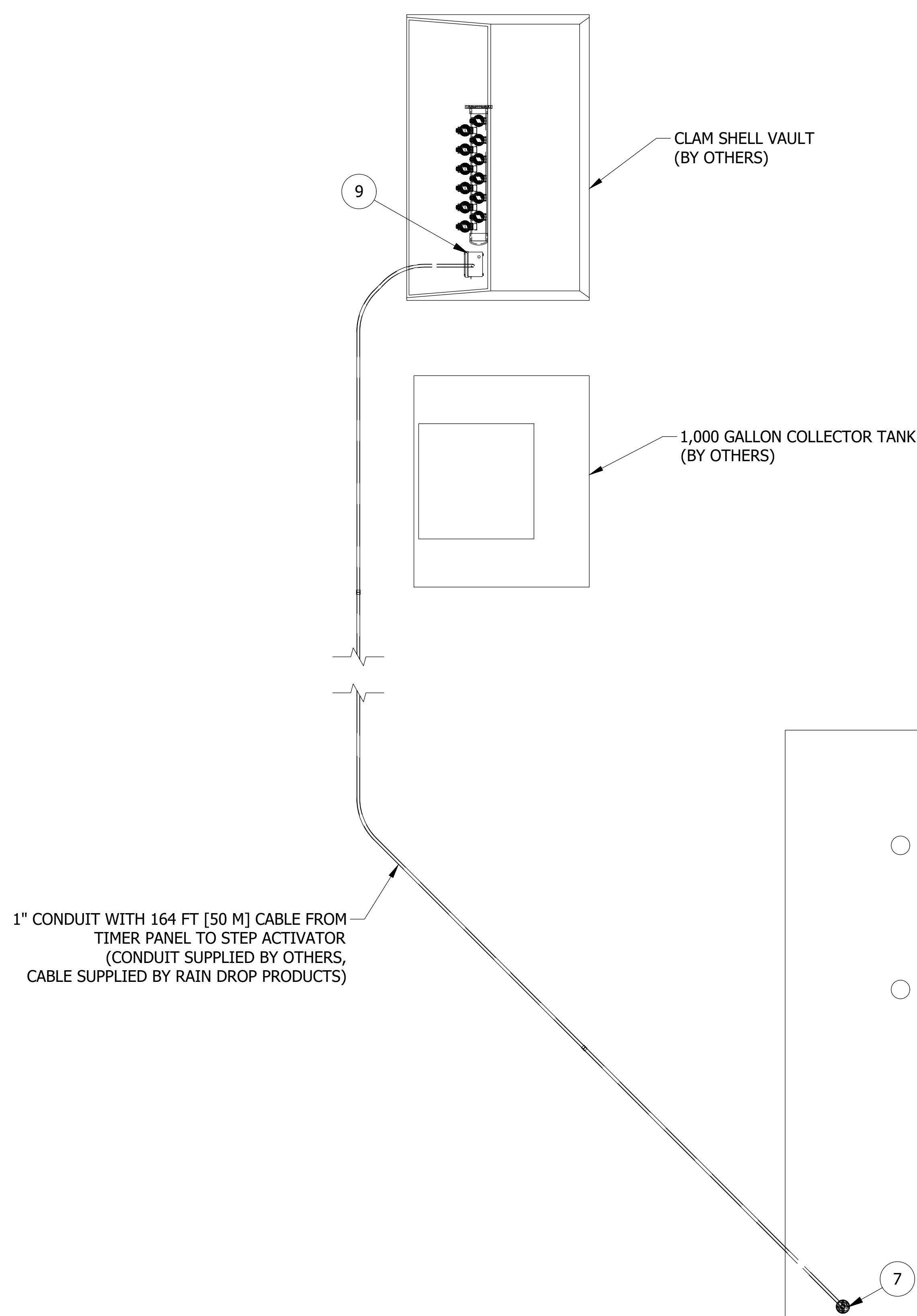
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**SP-12**



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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
7	1	ACT-A001	ACTIVATOR, STEP
9	1	TMR-008	TIMER PANEL



- ELECTRICAL -**
- 1 - ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES. IN ADDITION, ALL WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
  - 2 - THE CONTRACTOR SHALL VERIFY THE SERVICE REQUIREMENTS FOR ALL PIECES OF EQUIPMENT.
  - 3 - DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL CONDUIT AND CONTROLLER LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH CONTRACTOR.



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**COLLETON COUNTY RECREATIONAL CENTER**  
WALTERBORO, SC 29488

SIZE	PROJECT #	DWG NO	REV
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**SPLASHPAD ACTIVATOR LAYOUT**

DATE: 6.01.16  
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PROJECT NO: 0170

**SP-13**

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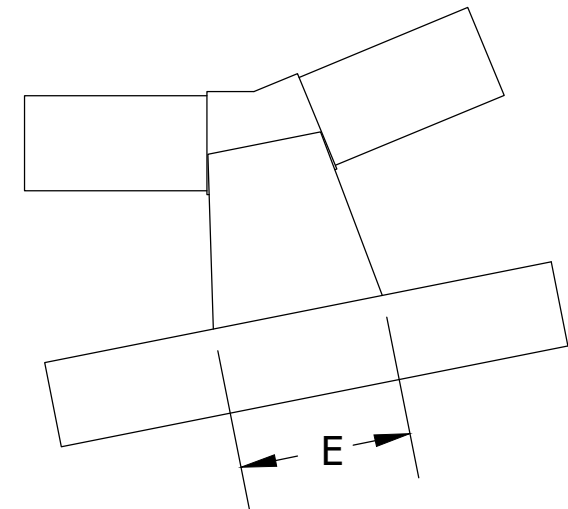
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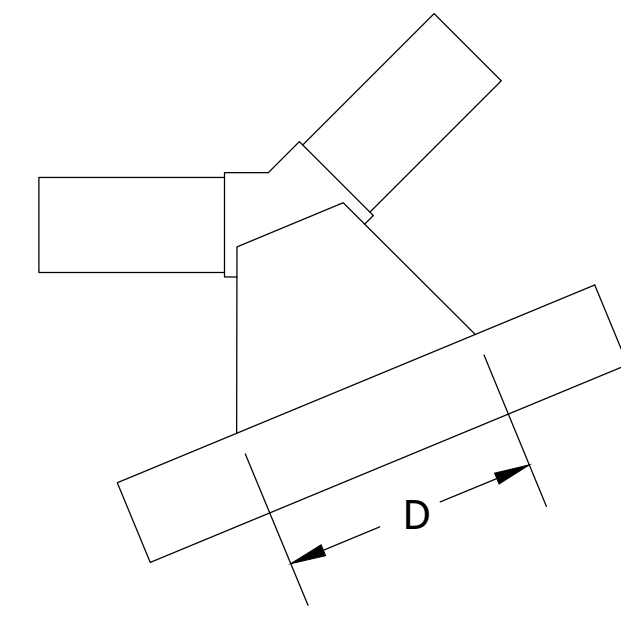
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PIPE SIZE	A	B	C	D	E
4"	1'-6"	1'-0"	2'-6"	1'-0"	1'-0"
6"	2'-0"	1'-6"	3'-0"	1'-6"	1'-0"
8"	2'-6"	2'-0"	3'-6"	2'-0"	1'-0"
10"	3'-6"	2'-6"	4'-6"	2'-6"	1'-6"
12"	4'-0"	3'-0"	5'-6"	3'-0"	1'-6"

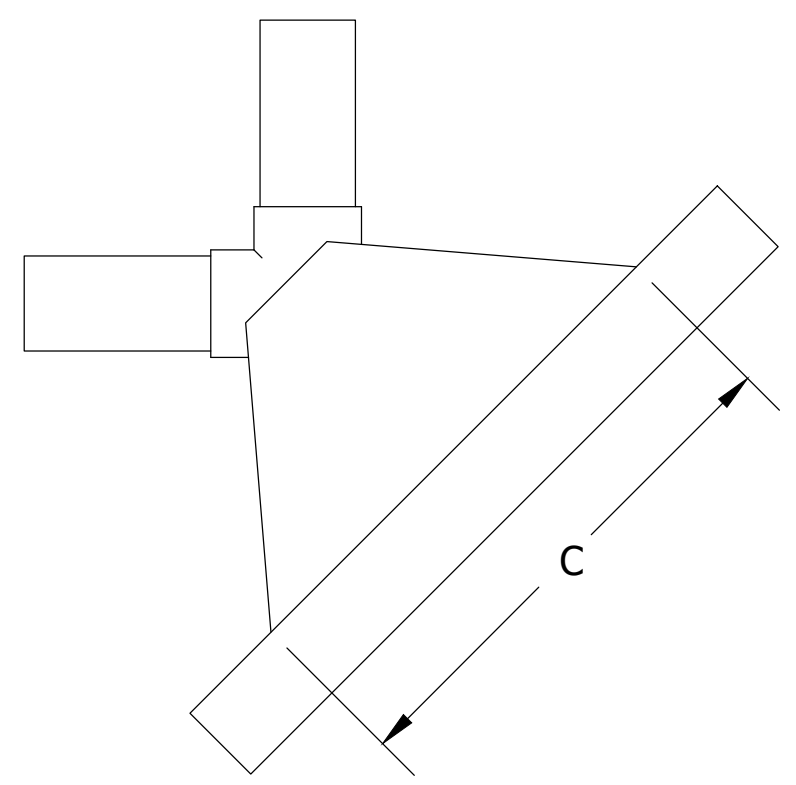
- NOTES:  
 1 - CONCRETE TO BE 4000 PSI.  
 2 - ALL FITTINGS TO BE GLUE JOINTS.  
 3 - THRUST BLOCK TO BE PLACED AGAINST UNDISTURBED EARTH. USE ADDITIONAL CONCRETE OF OVER-EXCAVATION.  
 4 - NO CONCRETE SHALL BE POURED ON ANY PART OF THE JOINT.  
 5 - THE CONSULTING ENGINEER SHALL BE RESPONSIBLE TO VERIFY THE TYPE AND SIZE OF ALL THRUST BLOCKS.



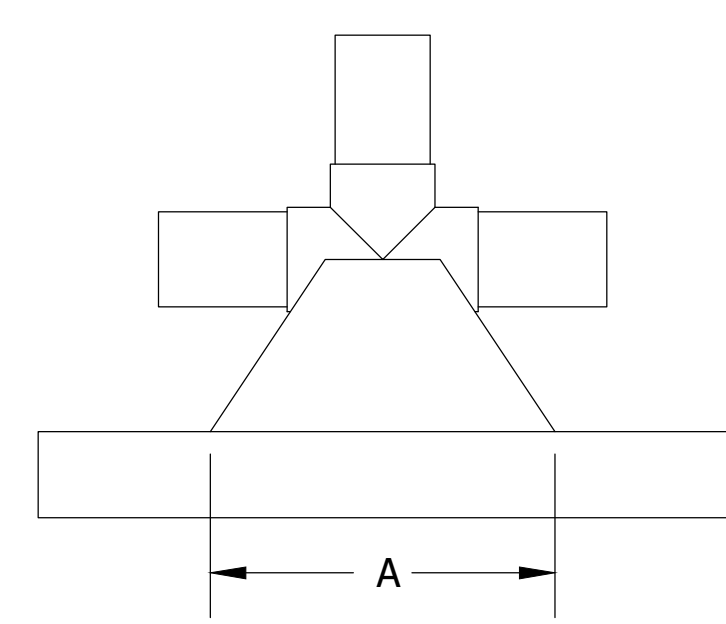
11 1/4° & 22 1/2° BEND



45° BEND

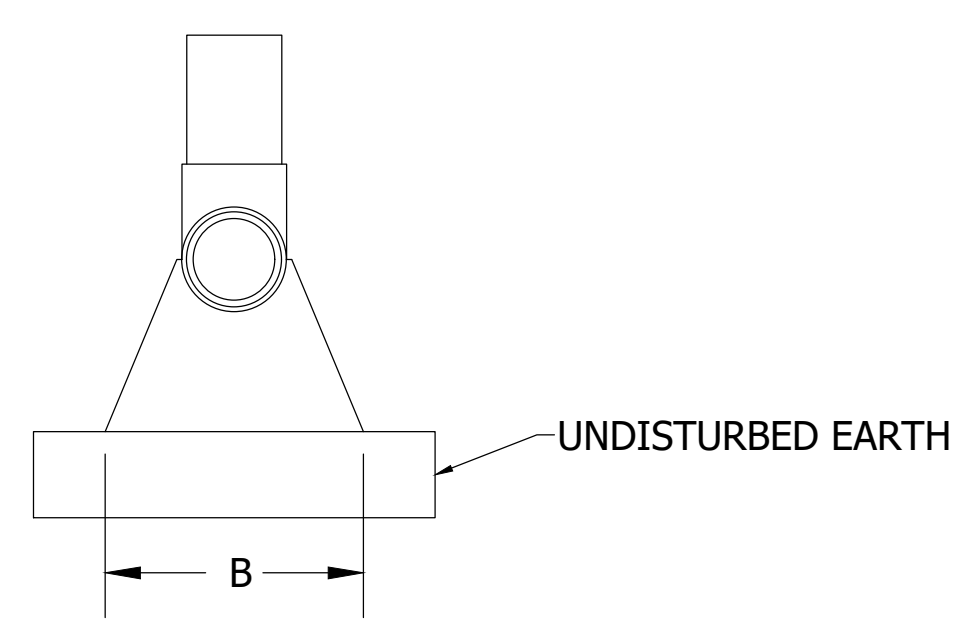


90° BEND

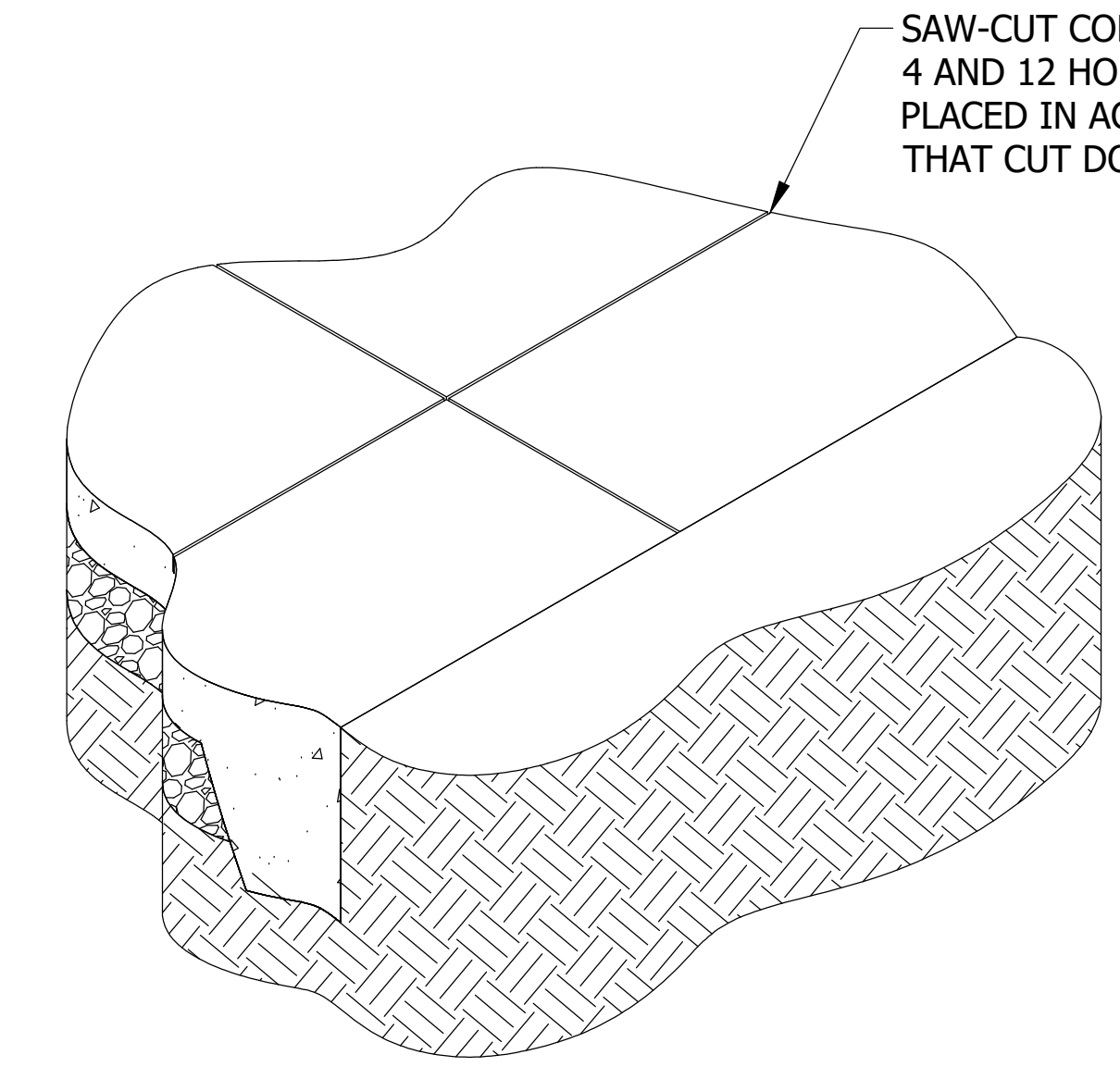


TEE

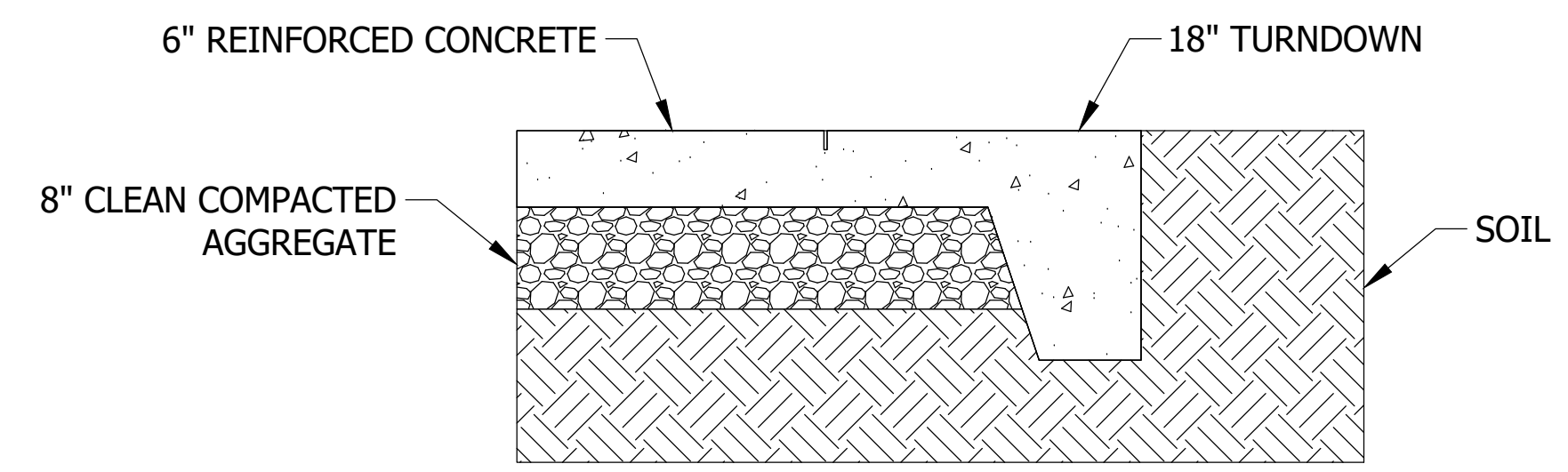
THRUST BLOCK DETAILS  
 NOT TO SCALE



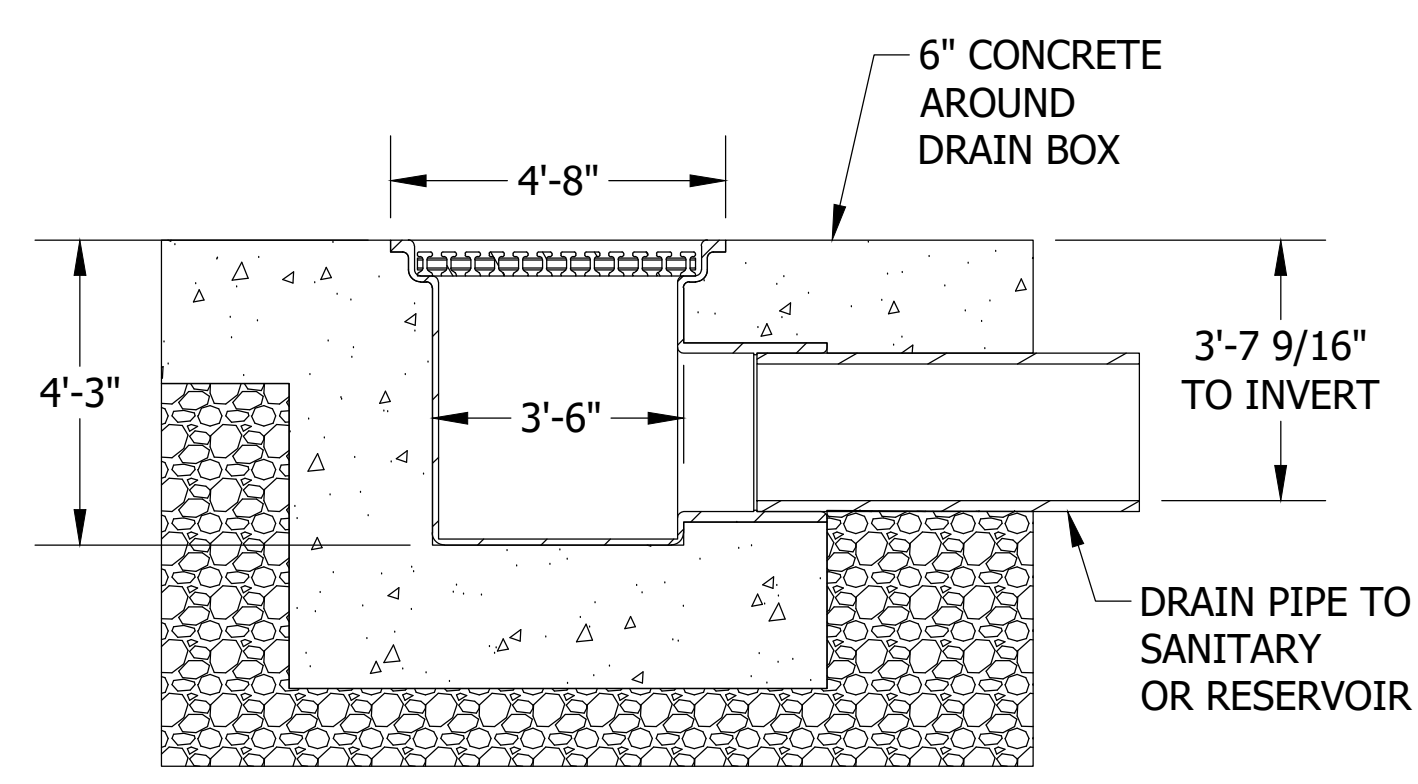
TYPICAL SIDE ELEVATION



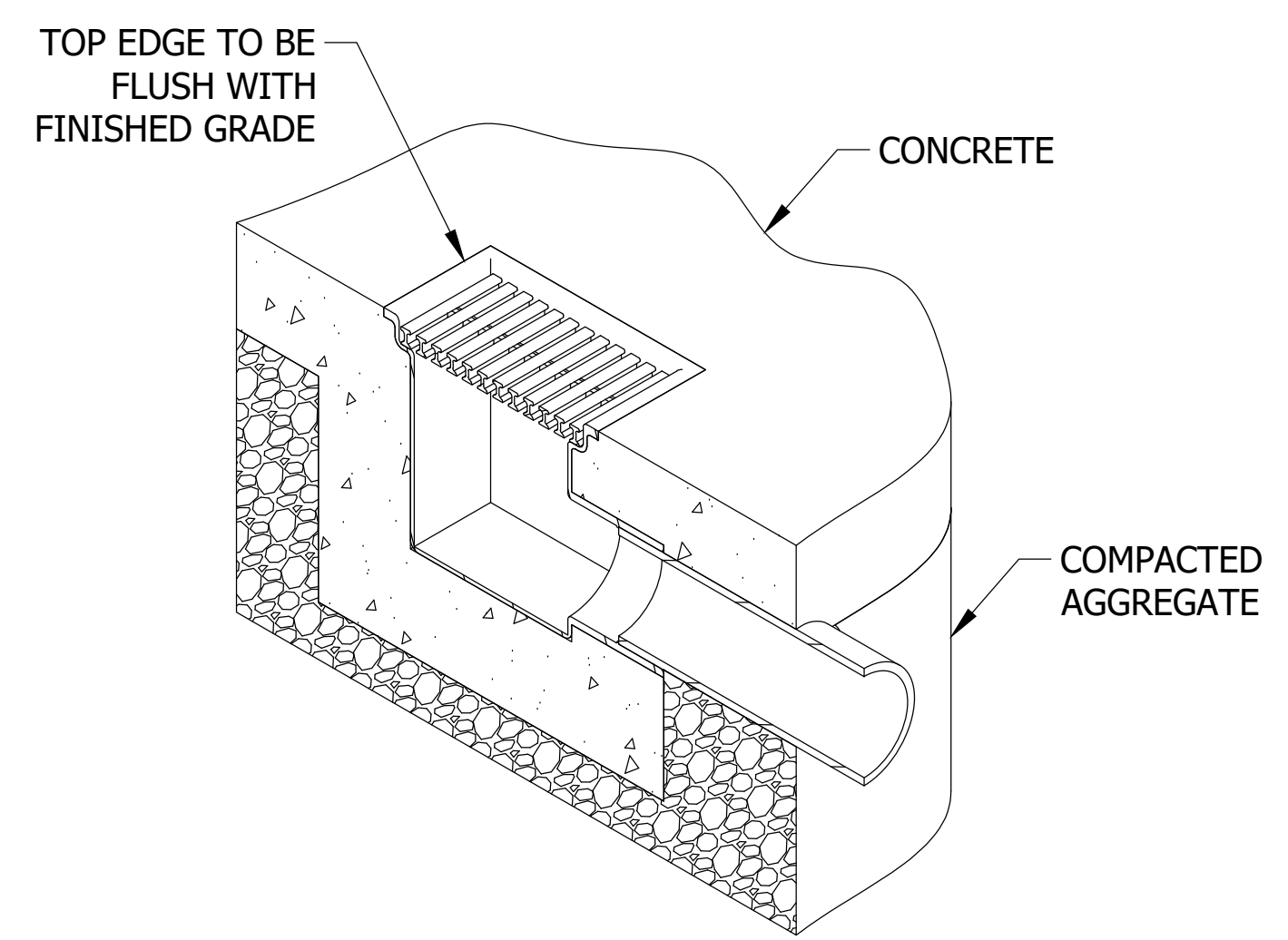
SAW-CUT CONTROL JOINTS 1 1/2" DEEP BETWEEN 4 AND 12 HOURS AFTER POUR. SAW JOINT TO BE PLACED IN ACCORDANCE TO ACI 318 AND SO THAT CUT DOES NOT INTERSECT ANY FEATURE.



CONCRETE DETAIL  
 NOT TO SCALE



12" DRAIN DETAIL  
 NOT TO SCALE



COMPACTED AGGREGATE



2121 COTTAGE ST. ASHLAND, OHIO 44805  
 419.207.1229 WWW.RAIN-DROP.COM

**COLLETON COUNTY RECREATIONAL CENTER**  
 WALTERBORO, SC 29488

SIZE	PROJECT #	DWG NO	REV
B	13619	13619-2016-1SC-WALTERBORO-COLLETON CO REC CTR-11	1
DRAWN		9/8/2016	SHEET OF 7
gwills			

NO.	REVISION	DATE	BY
1	REVISED PER DHEC COMMENTS	05.30.17	TDE
0	ISSUE FOR PERMIT/CONSTRUCTION	02.16.17	TDE

**COLLETON COUNTY RECREATION CENTER**  
 280 Recreation Lane.  
 Walterboro, SC 29488

**SPLASHPAD DETAILS**

DATE: 6.01.16  
 DRAWN BY: TDE CHECKED BY: TDE  
 PROJECT NO: 0170

**SP-14**

**IMPORTANT NOTICE:**  
 THIS LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL LAYOUT PLAN MUST BE STAMPED BY CERTIFIED ENGINEER IN ACCORDANCE WITH ALL APPLICABLE LAWS.



