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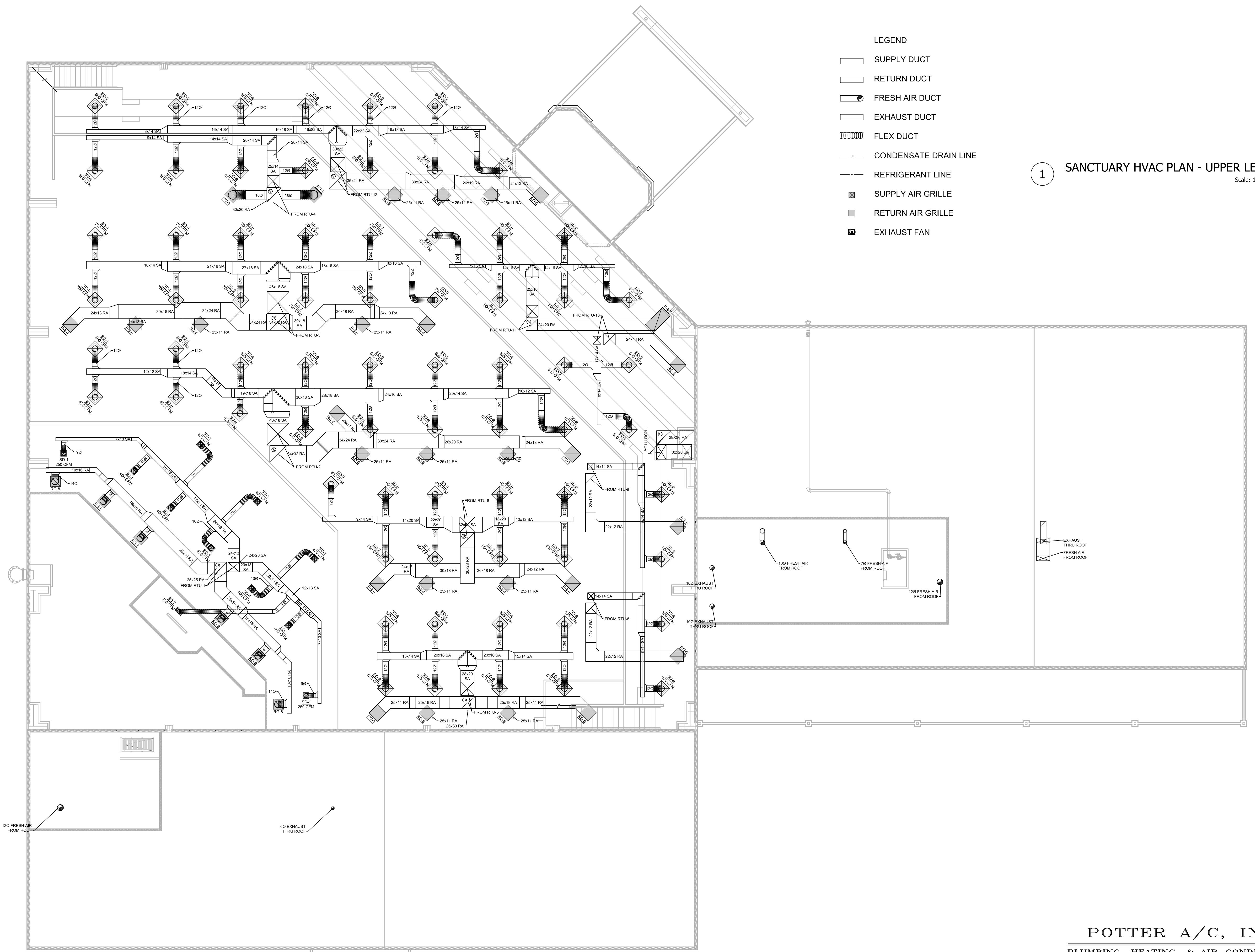
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SANCTUARY HVAC PLAN - ROOF

POTTER A/C, INC.
PLUMBING, HEATING, & AIR-CONDITIONING
9327 RANCHERO ST.
SAN ANTONIO, TEXAS 78240
(210) 690-5826
potterac@aol.com

SHEET NUMBER
M1.1
JULY 28, 2010



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M1.3

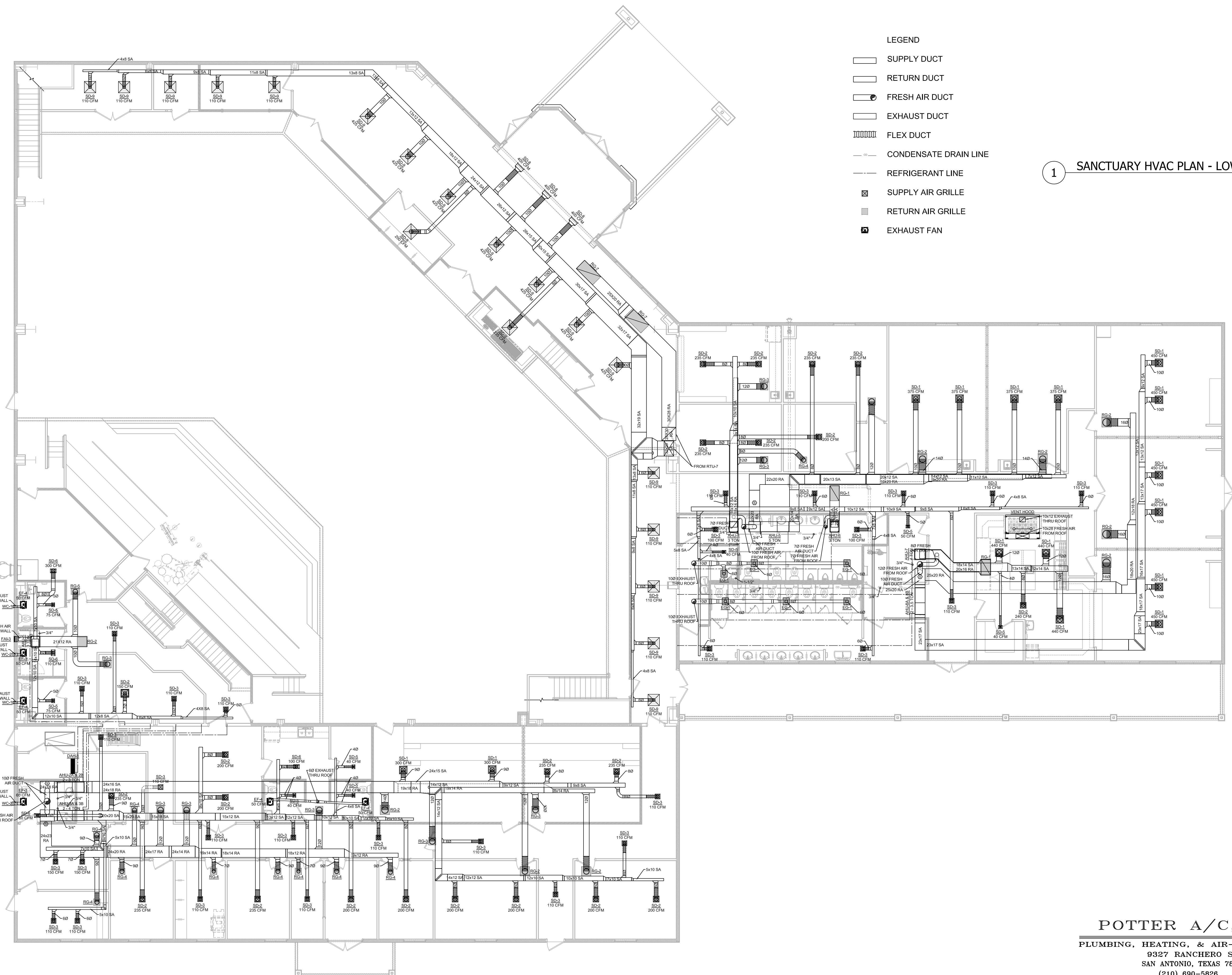
JULY 28, 2010

1 SANCTUARY HVAC PLAN - LOWER LEVEL

Scale: 1/8" = 1'

LEGEND

- SUPPLY DUCT
- RETURN DUCT
- FRESH AIR DUCT
- EXHAUST DUCT
- FLEX DUCT
- CONDENSATE DRAIN LINE
- REFRIGERANT LINE
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN



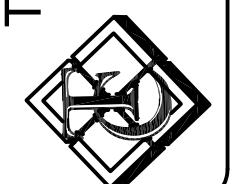
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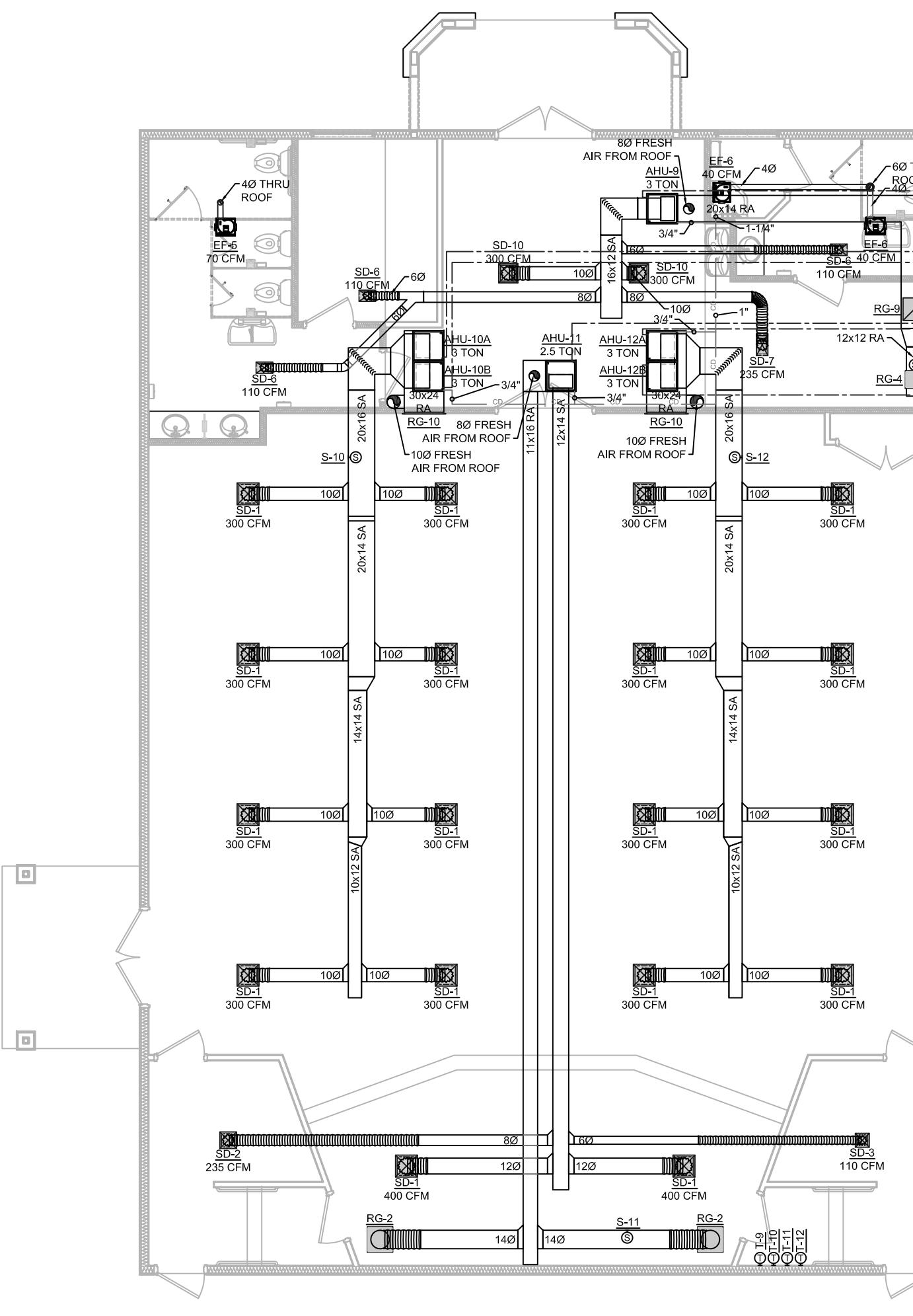
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CHAPEL HVAC PLAN AND AIR HANDLER DETAILS

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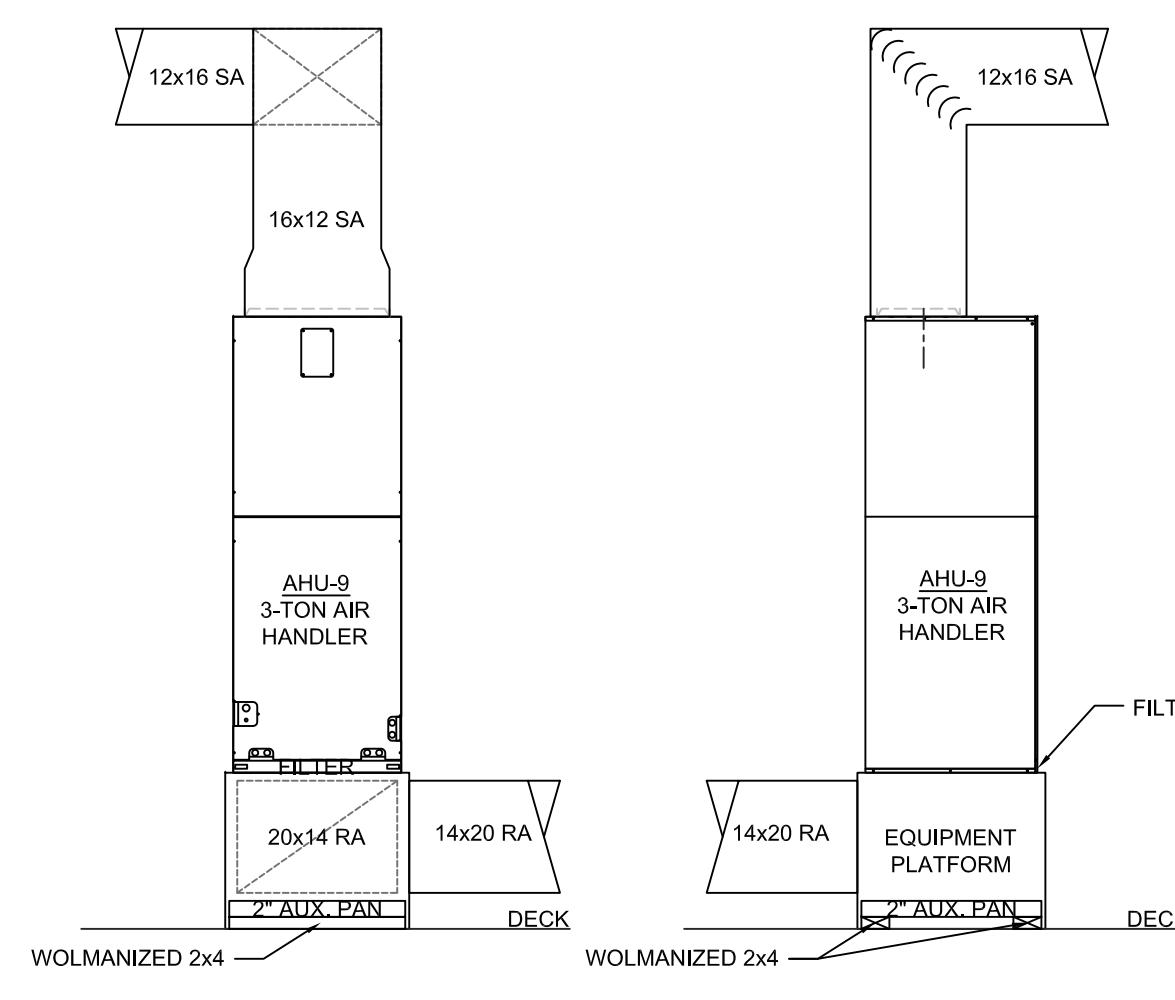


1 CHAPEL HVAC PLAN

Scale: 1/8" = 1'

LEGEND

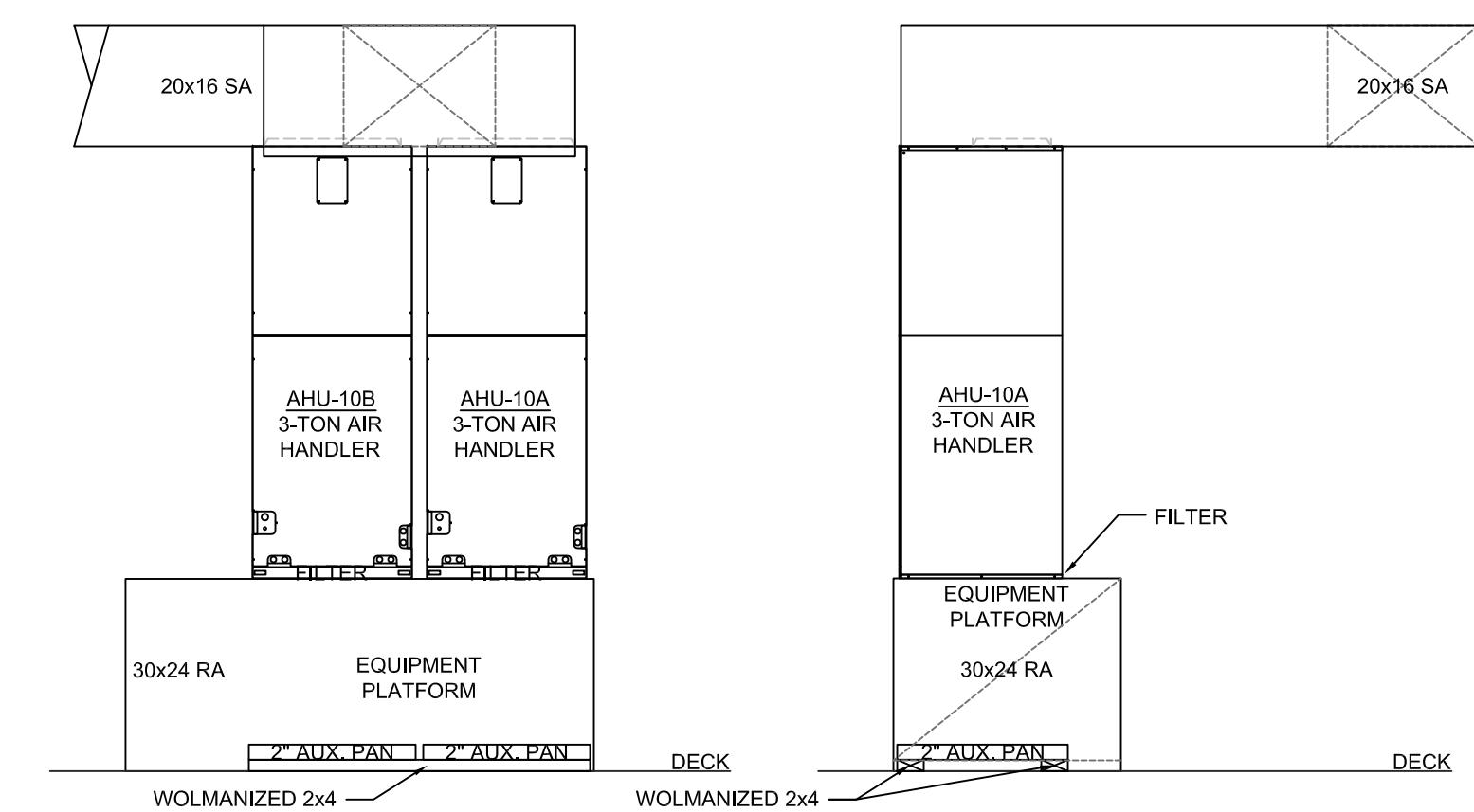
- SUPPLY DUCT
- RETURN DUCT
- FRESH AIR DUCT
- EXHAUST DUCT
- FLEX DUCT
- CONDENSATE DRAIN LINE
- REFRIGERANT LINE
- ☒ SUPPLY AIR GRILLE
- ☒ RETURN AIR GRILLE
- ☒ EXHAUST FAN
- ∅ THERMOSTAT
- ∅ SENSOR (DUCT MOUNTED)



FRONT VIEW

PROFILE VIEW

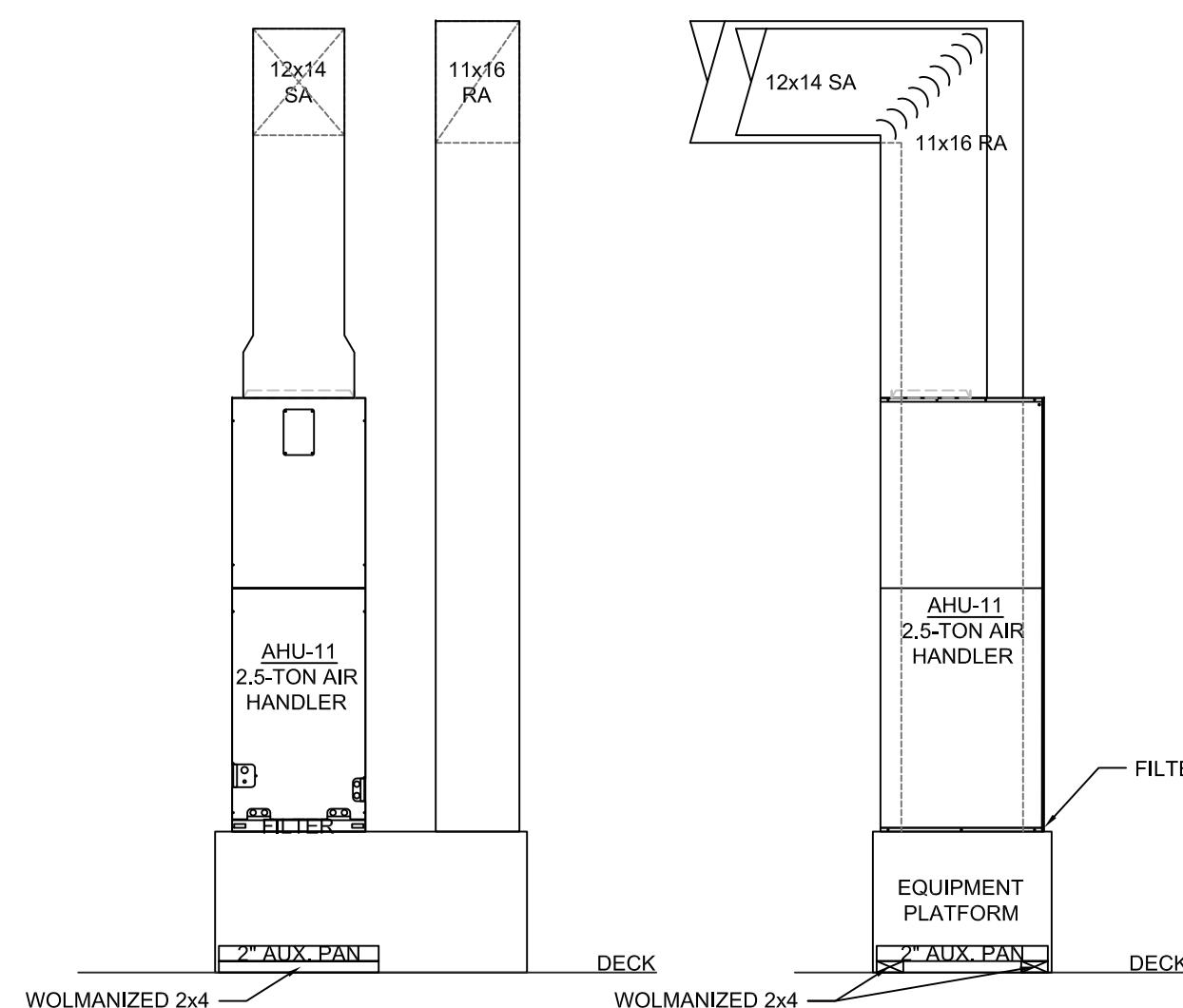
AIR HANDLER 9 DETAIL



FRONT VIEW

PROFILE VIEW

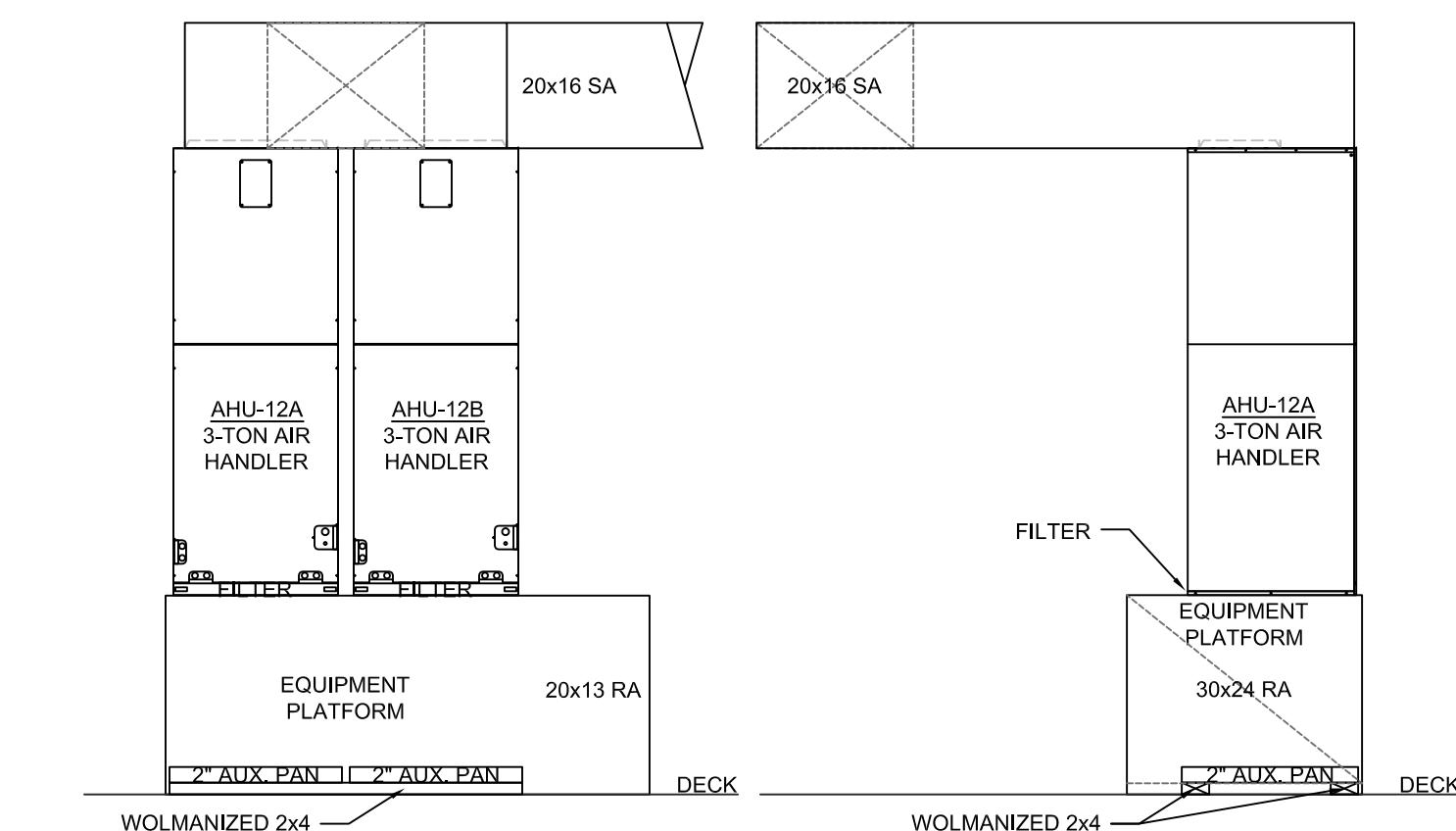
AIR HANDLER 10A & 10B DETAIL



FRONT VIEW

PROFILE VIEW

AIR HANDLER 11 DETAIL

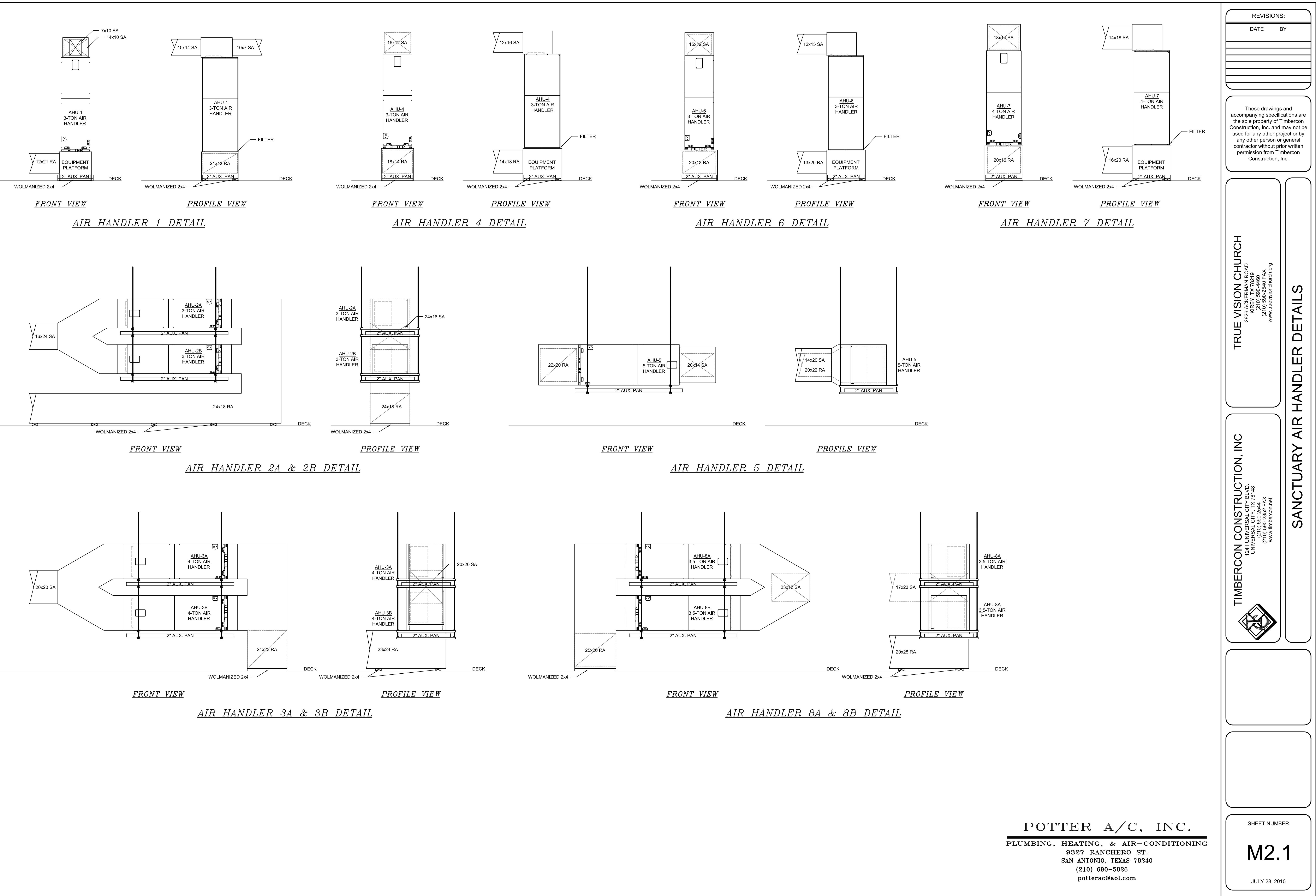


FRONT VIEW

PROFILE VIEW

AIR HANDLER 12A & 12B DETAIL

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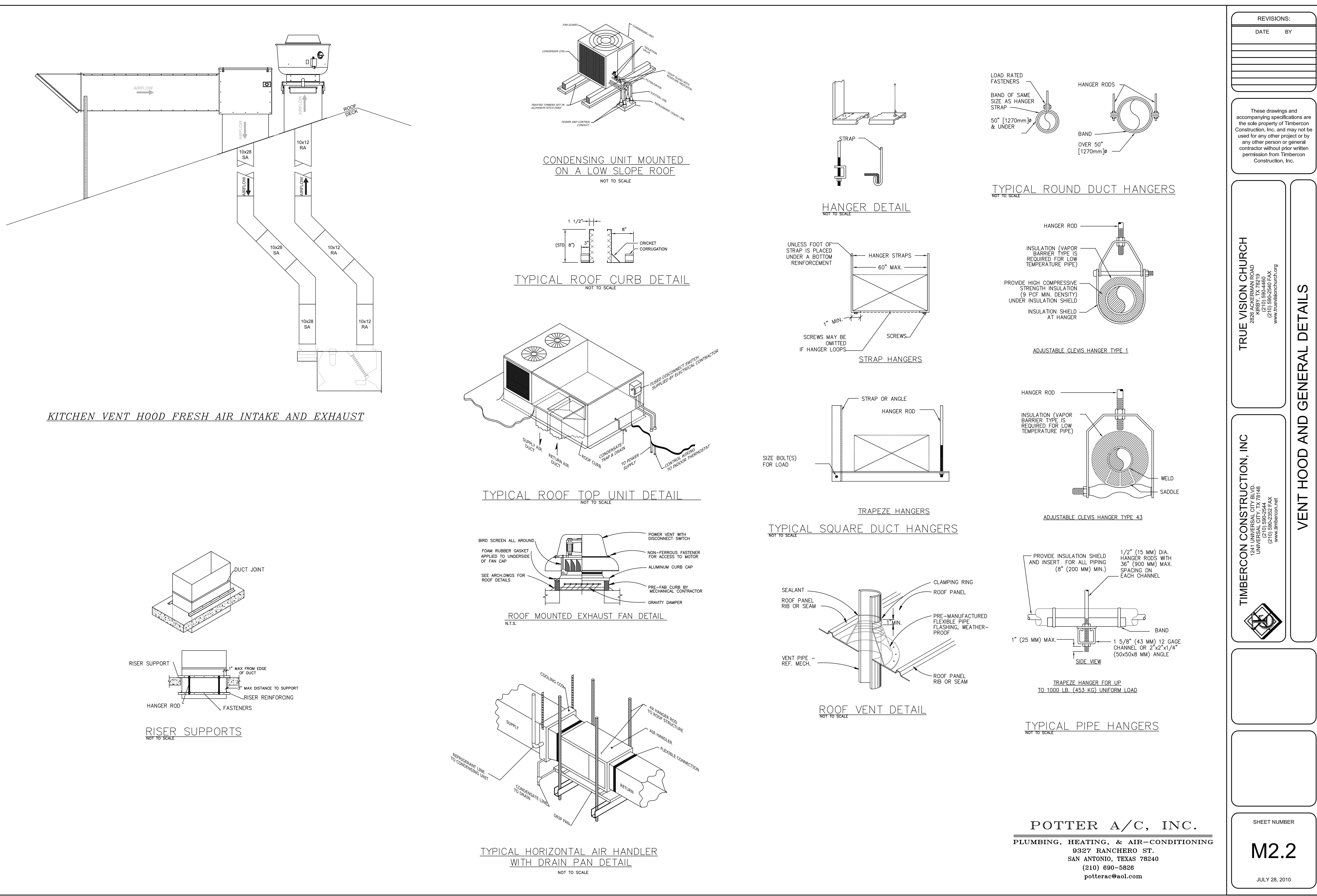
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VENT HOOD AND GENERAL DETAILS



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ROOF TOP PACKAGE UNIT SCHEDULE																			
UNIT DATA		COOLING DATA								HEATING DATA									
MARK	MANUFACTURER	MODEL	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (I.W.G.)	H.P.	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR DB/WB (°F)	LEAVING AIR DB/WB (°F)	FUEL TYPE	INPUT (kW)	ENTERING AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PHZ	MCA	MOCP	REMARKS
RTU-1	YORK	XP120CDN4AAA4	10	4000	600	0.6	3	116.30	90.70	80°/67°	58.1°/57.9°	ELECTRIC	24	60°	78.9°	460-3-60	64.60	70	
RTU-2	YORK	ZJ240E3DN4AAA1	20	8000	1200	0.5	7.5	253.3	190.2	80°/67°	58.1°/57.0°	ELECTRIC	36	60°	74.2°	460-3-60	63.10	70	DDC CONTROL SYSTEM; PROVIDE ECONOMIZER PACKAGE
RTU-4	YORK	XP078CDN4AAA4	6.5	2600	390	0.6	2	76.00	58.00	80°/67°	58.4°/57.8°	ELECTRIC	18	60°	81.9°	460-3-60	47.20	50	
RTU-5	YORK	XP096CDN4AAA4	12.5	5000	750	0.6	3	106.30	113.30	80°/67°	58.1°/57.0°	ELECTRIC	24	60°	74.2°	460-3-60	74.80	80	
RTU-6	YORK	XP160CDN4AAA1	8.0	3200	1200	0.5	7.5	270.3	195.3	80°/67°	57.4°/56.8°	ELECTRIC	36	60°	74.2°	460-3-60	66.60	70	
RTU-7	YORK	ZF240E3DN4AAA1	3	1200	180	0.6	1.5	34.34	25.72	80°/67°	58.1°/57.9°	ELECTRIC	10	60°	86.5°	460-3-60	47.20	30	
RTU-10	YORK	XP096CDN4AAA1	4	1600	240	0.6	1.5	46.12	34.98	80°/67°	58.8°/57.9°	ELECTRIC	15	60°	86.9°	460-3-60	34.70	35	
RTU-11	YORK	XP090CDN4AAA4	7.5	3000	450	0.6	3	90.65	67.05	80°/67°	58.4°/57.5°	ELECTRIC	18	60°	79°	460-3-60	49.50	50	
RTU-12	YORK	ZF240E3DN4AAA1	15	8000	1200	0.5	7.5	279.2	196.3	80°/67°	57.4°/55.8°	ELECTRIC	36	60°	74.2°	460-3-60	66.60	70	

SPLIT SYSTEM AIR HANDLER UNITS																				
UNIT DATA		COOLING DATA								HEATING DATA										
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (I.W.G.)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR DB/WB (°F)	LEAVING AIR DB/WB (°F)	FUEL TYPE	INPUT (kW)	ENTERING AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PHZ	MCA	MOCP	REMARKS
AHU-1, 4, 6	YORK	MA12BN41	AIR HANDLER UNIT	UPFLOW	3	1200	180	0.47	37.32	26.14	80°/67°	59.9°/57.1°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20	
AHU-2&8	YORK	MA12BN41	AIR HANDLER UNIT	HORIZONTAL LEFT	3	1200	180	0.47	37.32	26.14	80°/67°	59.9°/57.1°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20	
AHU-3&8	YORK	MA16CN41	AIR HANDLER UNIT	HORIZONTAL LEFT	4	1600	240	0.44	46.80	35.05	80°/67°	59.8°/57.9°	ELECTRIC	13.20	60°	86.2°	460-3-60	24.9	25	DDC CONTROL SYSTEM
AHU-7	YORK	MA24BN41	AIR HANDLER UNIT	UPFLOW	4	1600	240	0.44	46.60	35.05	80°/67°	59.8°/57.9°	ELECTRIC	13.20	60°	86.2°	460-3-60	24.9	25	
AHU-5	YORK	MC26203N1	CONDENSER COIL																	
AHU-4&8	YORK	MA16CN41	AIR HANDLER UNIT	HORIZONTAL LEFT	5	2000	300	0.57	54.80	43.30	80°/67°	60.0°/58.4°	ELECTRIC	13.20	60°	80.9°	460-3-60	26.3	30	
AHU-9, 10&B, 12&B	YORK	MA12BN41	AIR HANDLER UNIT	HORIZONTAL RIGHT	3.5	1400	210	0.60	40.50	31.10	80°/67°	59.5°/58.0°	ELECTRIC	8.80	60°	79.9°	460-3-60	17.8	25	
AHU-11	YORK	MC240E3N1	CONDENSER COIL	UPFLOW	3	1200	180	0.47	35.7	25.54	80°/67°	60.3°/57.7°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20	
		ZF240E3DN41	CONDENSER COIL	UPFLOW	2.5	1000	150	0.46	27.7	21.20	80°/67°	60.4°/58.3°	ELECTRIC	8.80	60°	87.9°	460-3-60	17.4	20	

HEAT PUMP/CONDENSING UNITS																				
UNIT DATA		COOLING DATA								ELECTRIC DATA										
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (I.W.G.)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR DB/WB (°F)	LEAVING AIR DB/WB (°F)	FUEL TYPE	INPUT (kW)	AMBIENT AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PHZ	MCA	MOCP	REMARKS
CU-1, 2A&B, 4, 6	YORK	THGD2684AS1	CONDENSING UNIT	N/A	3	1200	37.32	26.14	3.03	47°	90.1	460-3-60	64	15						
CU-5, 7	YORK	THGD06254S1	CONDENSING UNIT	N/A	5	2000	54.80	43.30	4.30	47°	86.9°	460-3-60	12.80	20						
CU-8&B	YORK	THGD25254S1	CONDENSING UNIT	N/A	3.5	1400	40.50	31.10	3.30	47°	88.4°	460-3-60	8.70	15						
CU-9, 10&B, 12&B	YORK	YHD30584S3	CONDENSING UNIT	N/A	3	1200	35.7	25.54	3.03	47°	90.1°	460-3-60	6.40	15						
CU-11	YORK	YHD30584S3	CONDENSING UNIT	N/A	2.5	1000	27.7	21.20	2.30	47°	88.3°	460-3-60	6.00	15						



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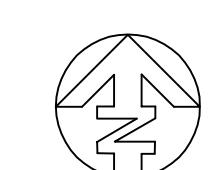
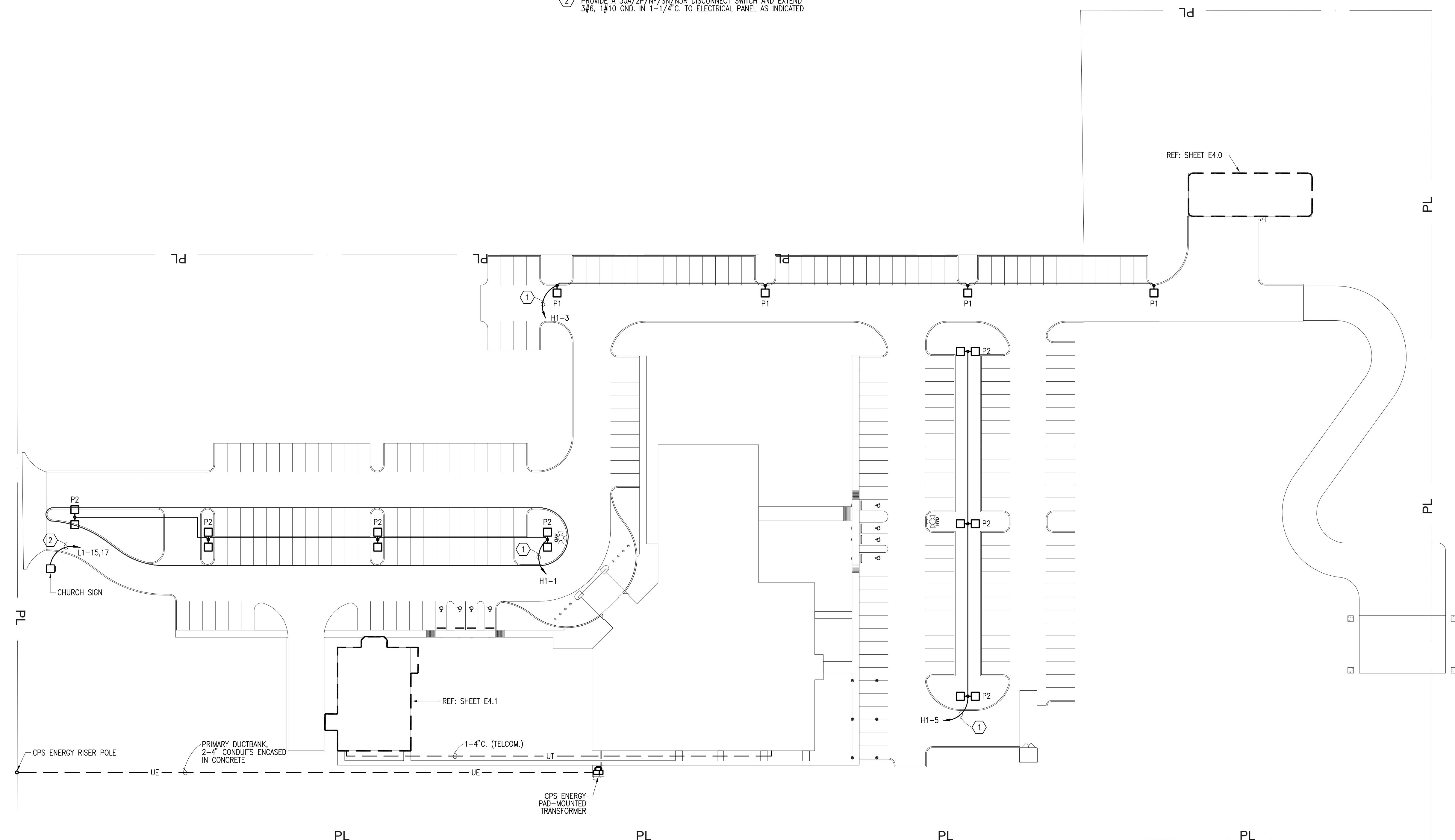
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Job No.:

SHEET NUMBER:

E1.0

KEYED NOTES: (THIS SHEET ONLY)

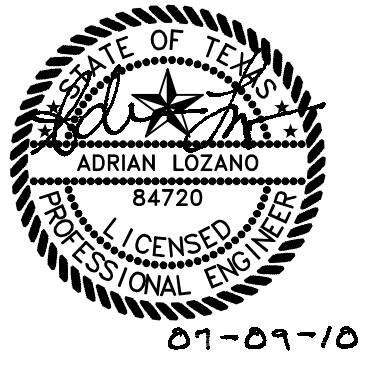
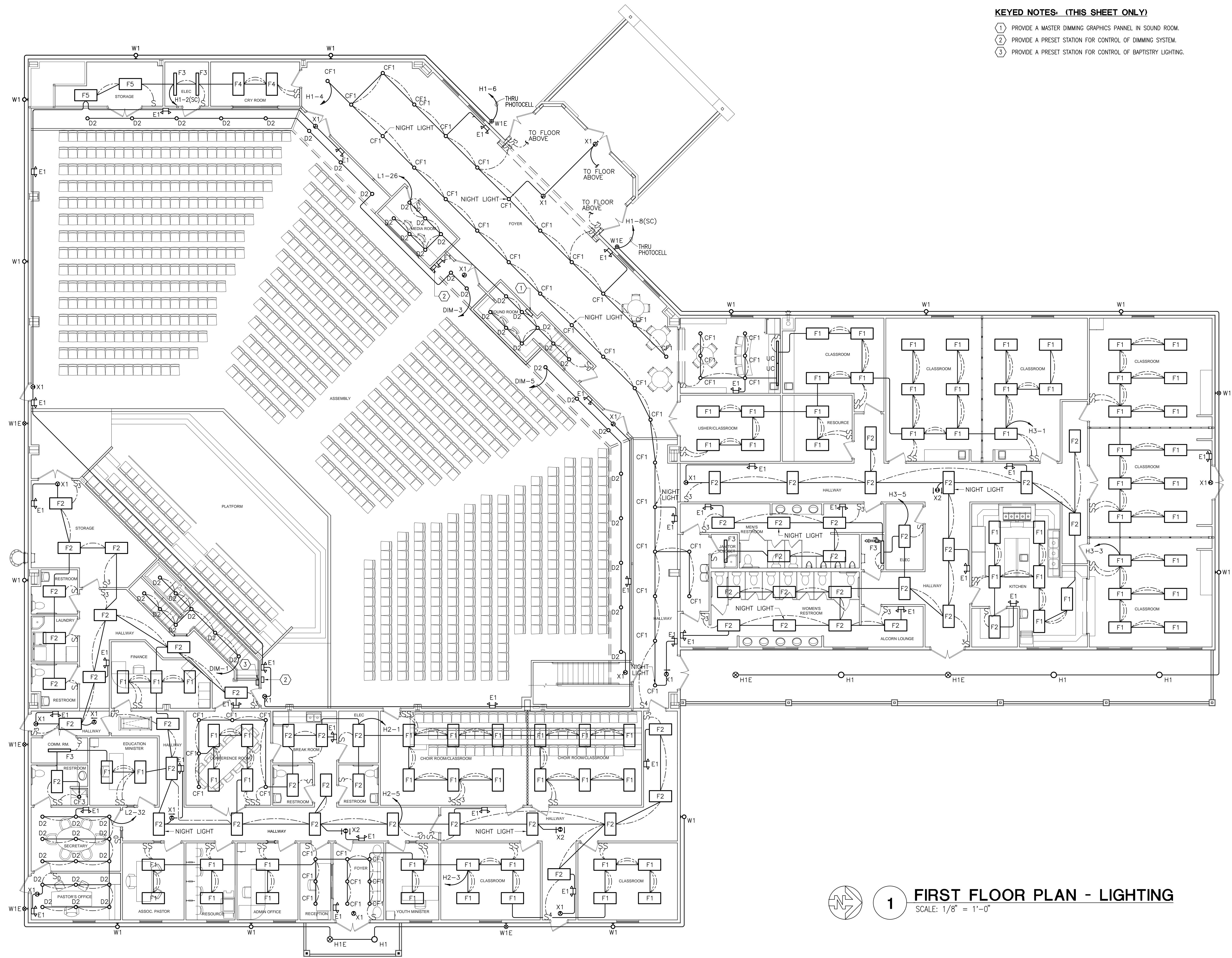
- ① EXTEND 2#8, 1#10 GND. IN 1" C. TO ELECTRICAL PANEL AS INDICATED.
- ② PROVIDE A 30A/2P/NF/SN/NSR DISCONNECT SWITCH AND EXTEND 3#6, 1#10 GND. IN 1-1/4" C. TO ELECTRICAL PANEL AS INDICATED



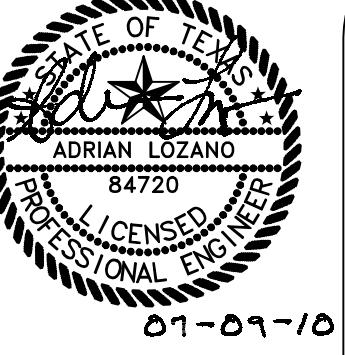
1

SITE PLAN - ELECTRICAL

SCALE: 1" = 40'-0"



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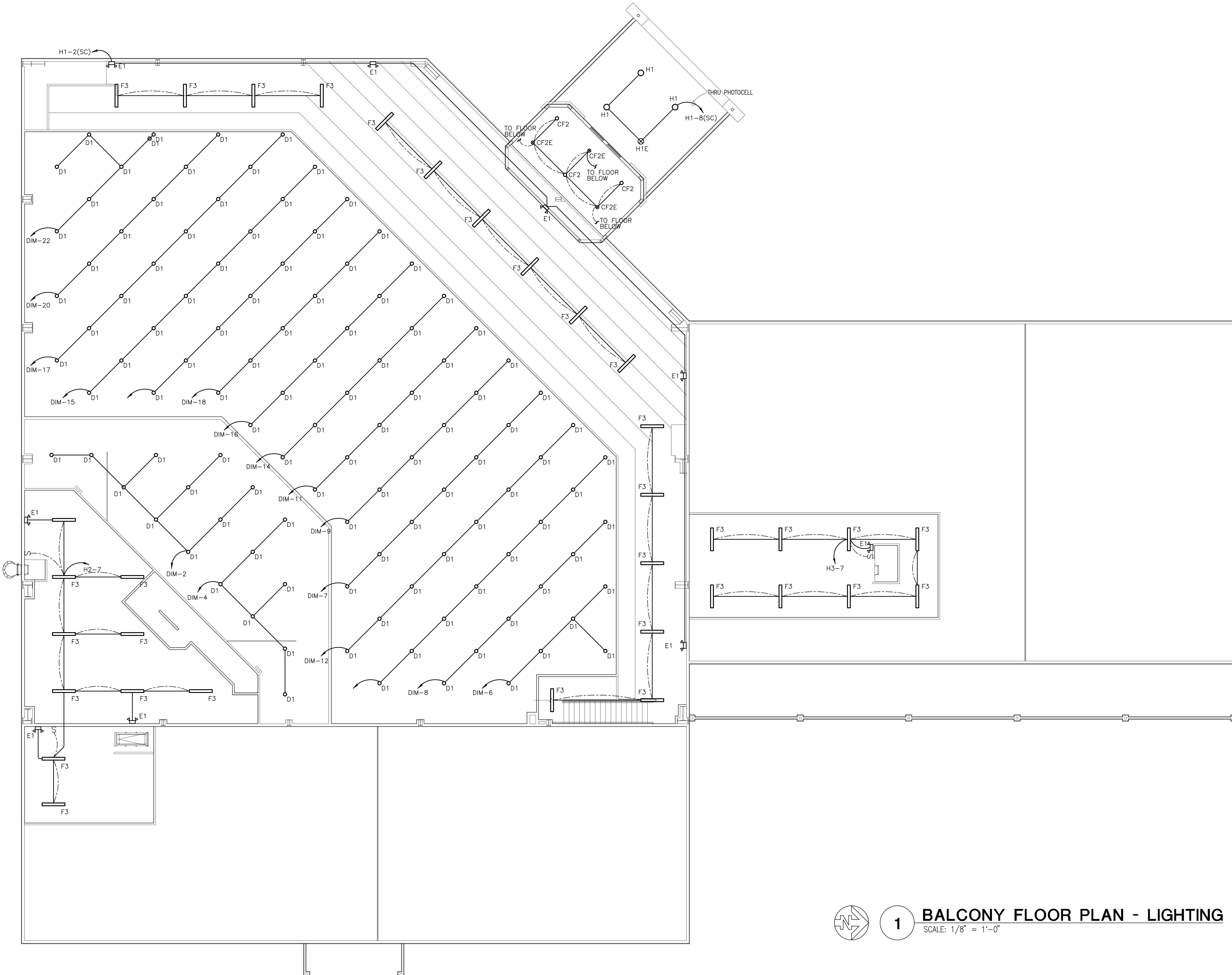
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Job No.

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E1.2



1

BALCONY FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



TRIPLE
R
ADRIAN LOZANO
LICENSED PROFESSIONAL ENGINEER
01-09-10

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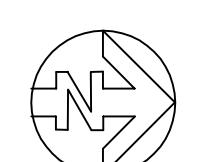
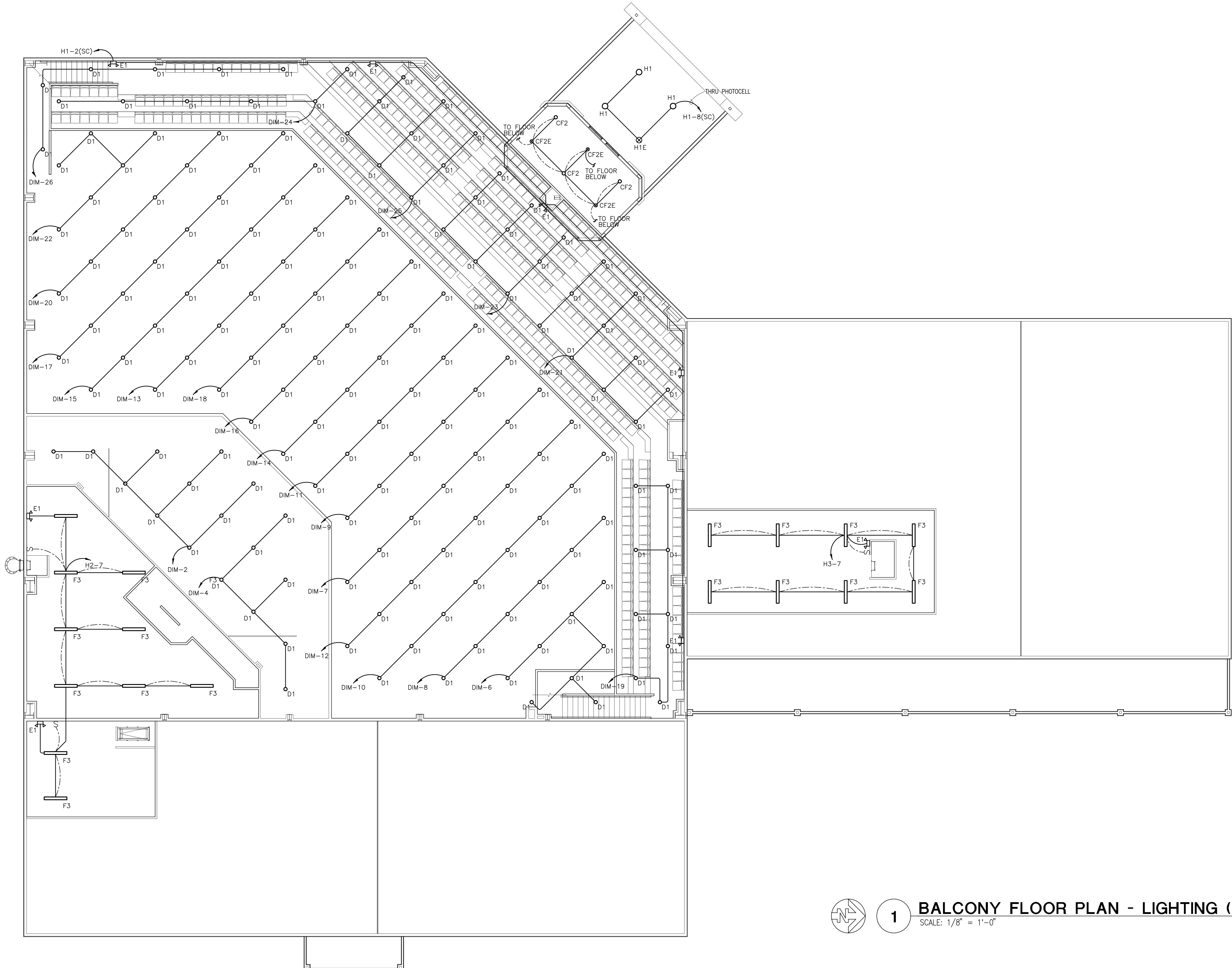
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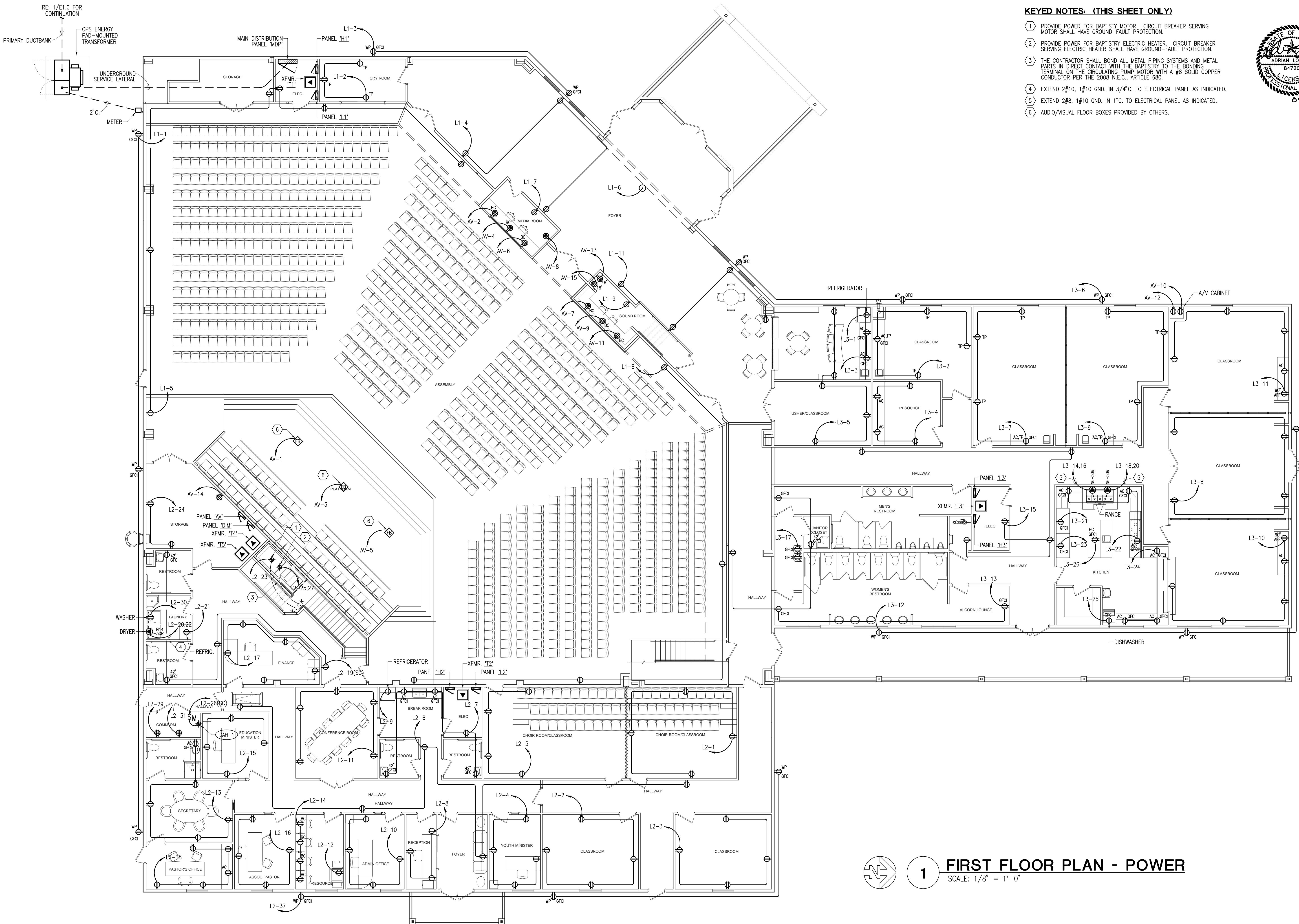
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E1.2A



1

BALCONY FLOOR PLAN - LIGHTING (ALT. 1)



KEYED NOTES: (THIS SHEET ONLY)

- 1 PROVIDE POWER FOR BAPTISTY MOTOR. CIRCUIT BREAKER SERVING MOTOR SHALL HAVE GROUND-FAULT PROTECTION.
- 2 PROVIDE POWER FOR BAPTISTRY ELECTRIC HEATER. CIRCUIT BREAKER SERVING ELECTRIC HEATER SHALL HAVE GROUND-FAULT PROTECTION.
- 3 THE CONTRACTOR SHALL BOND ALL METAL PIPING SYSTEMS AND METAL PARTS IN DIRECT CONTACT WITH THE BAPTISTRY TO THE BONDING TERMINAL ON THE CIRCULATING PUMP MOTOR WITH A #8 SOLID COPPER CONDUCTOR PER THE 2008 N.E.C., ARTICLE 680.
- 4 EXTEND 2#10, 1#10 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
- 5 EXTEND 2#8, 1#10 GND. IN 1" C. TO ELECTRICAL PANEL AS INDICATED.
- 6 AUDIO/VISUAL FLOOR BOXES PROVIDED BY OTHERS.



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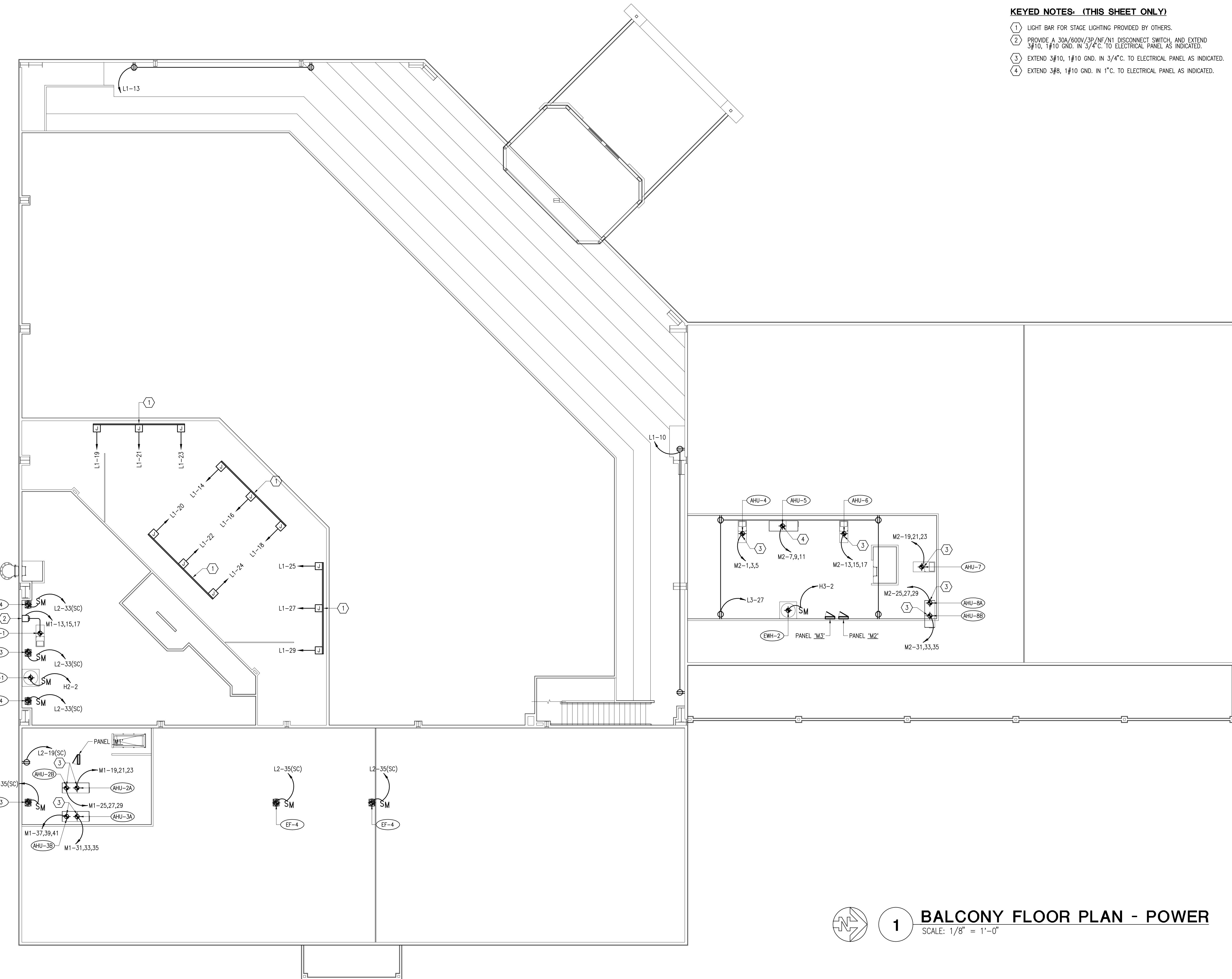
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Job No.

SHEET NUMBER:

501

E2.1



1

BALCONY FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

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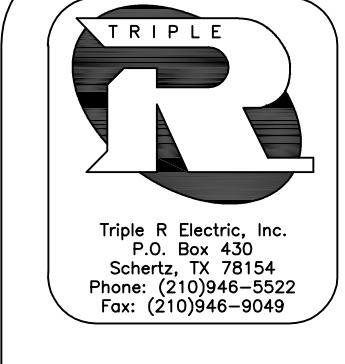
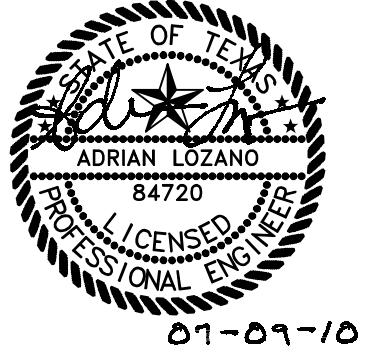
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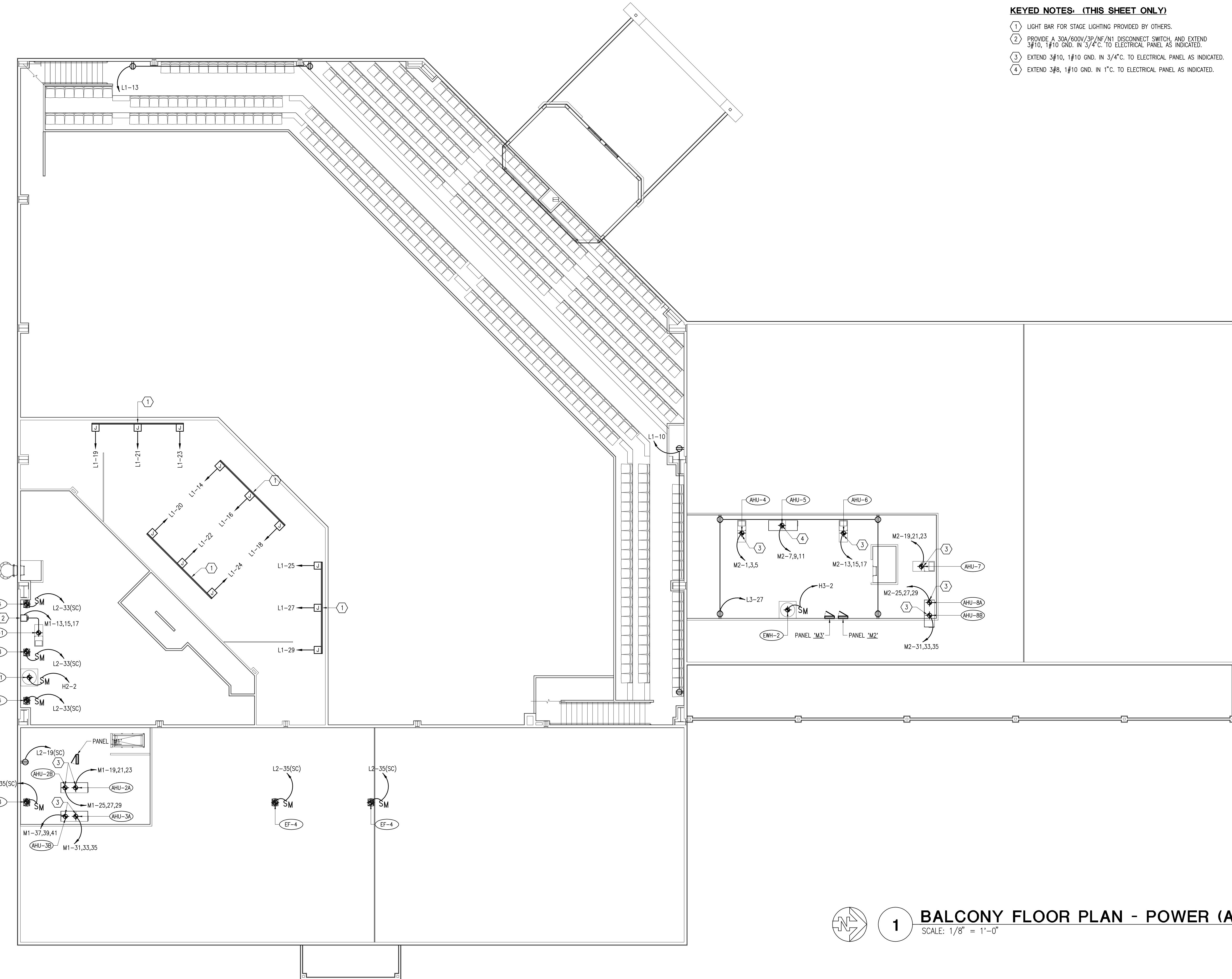
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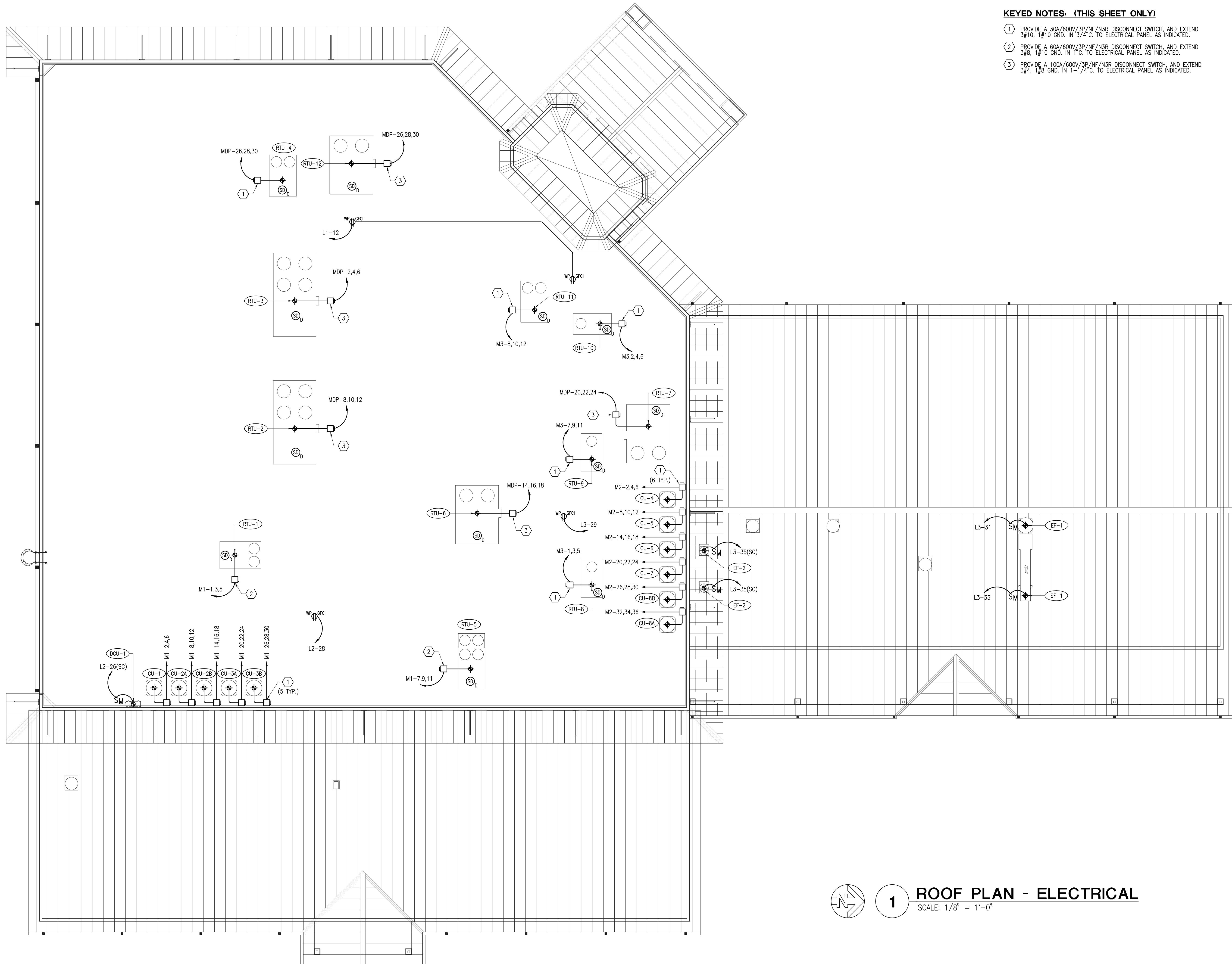
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E2.2







1 ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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E2.3



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LICENSED PROFESSIONAL ENGINEER
07-09-10

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KEYED NOTES: (THIS SHEET ONLY)

(1) AUDIO/VIDEO FLOOR BOXES PROVIDED BY OTHERS.
 (2) PROVIDE 2-4" C. UNDERGROUND AND CONNECT TO PULL BOXES AS INDICATED.



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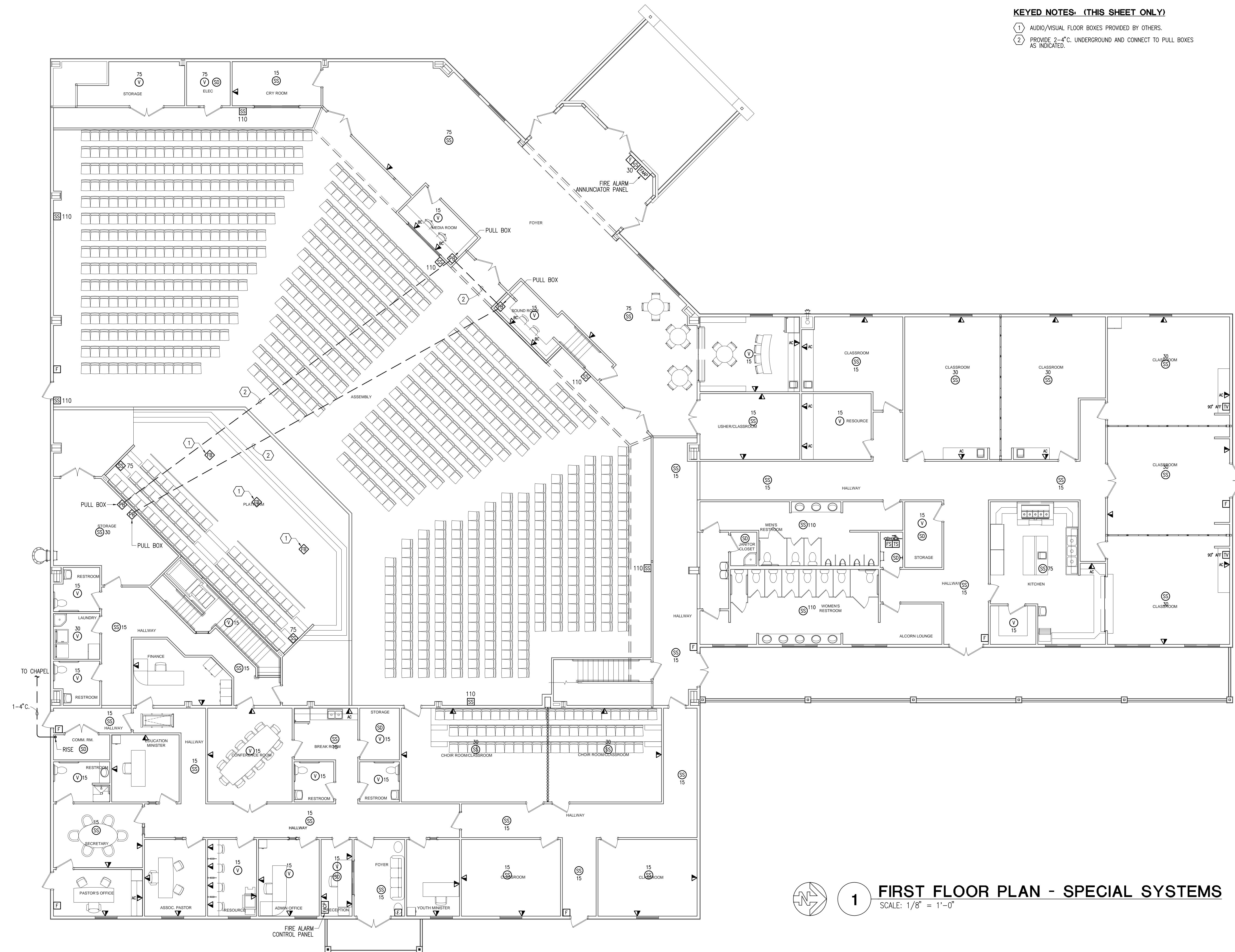
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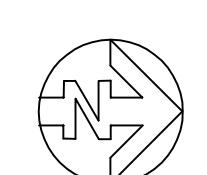
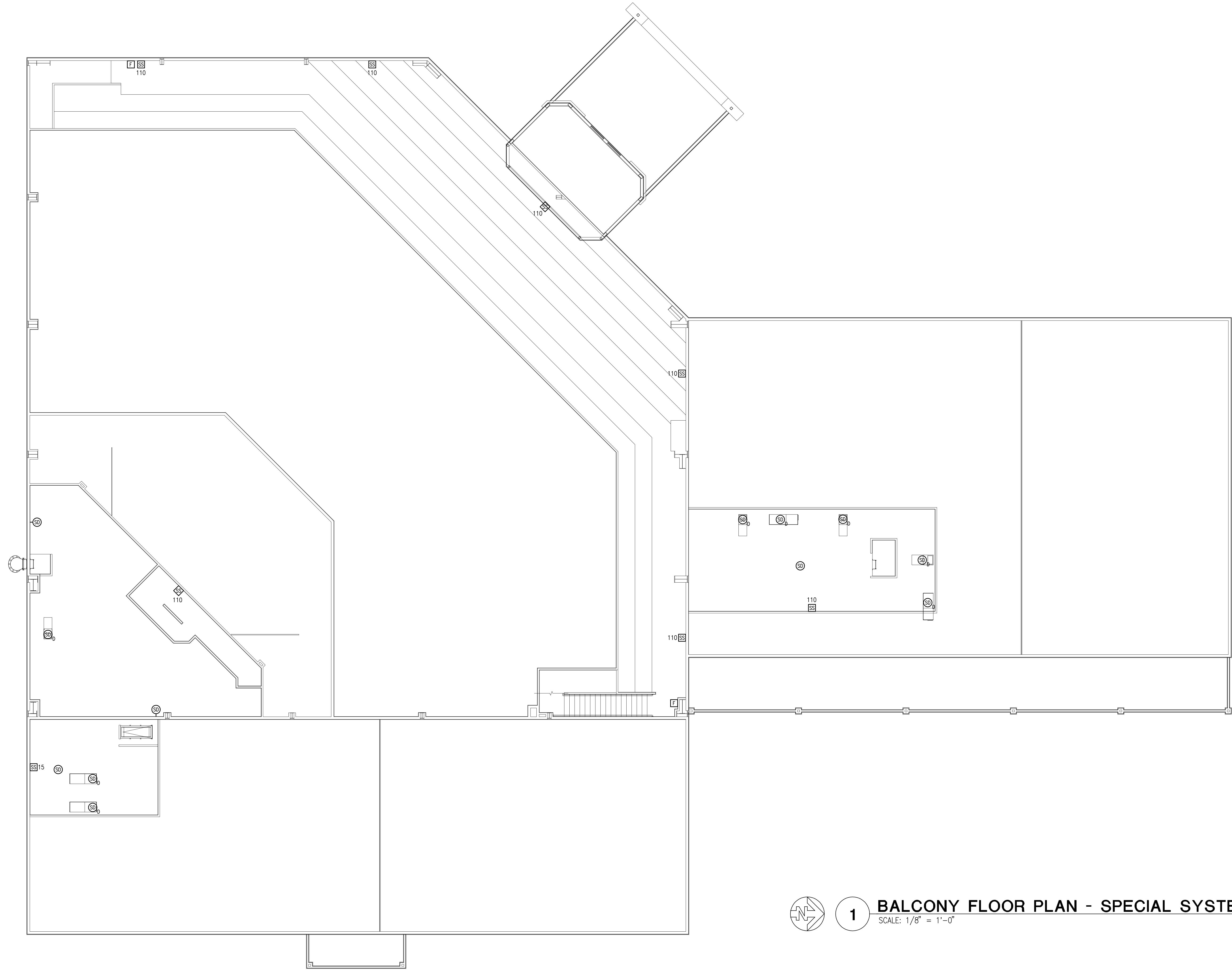
E3.1



1

FIRST FLOOR PLAN - SPECIAL SYSTEMS

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



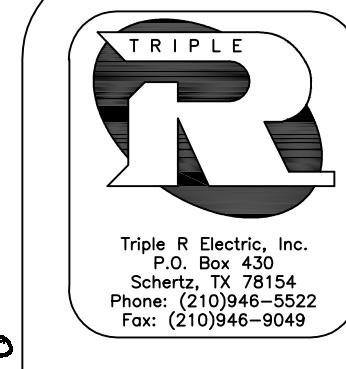
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BALCONY FLOOR PLAN - SPECIAL SYSTEMS

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



STATE OF TEXAS
ADRIAN LOZANO
LICENCED PROFESSIONAL ENGINEER
01-09-10



Triple R Electric, Inc.
P.O. Box 430
Schertz, TX 78154
Phone: (210) 446-5522
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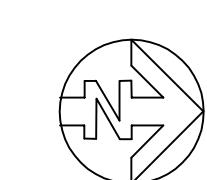
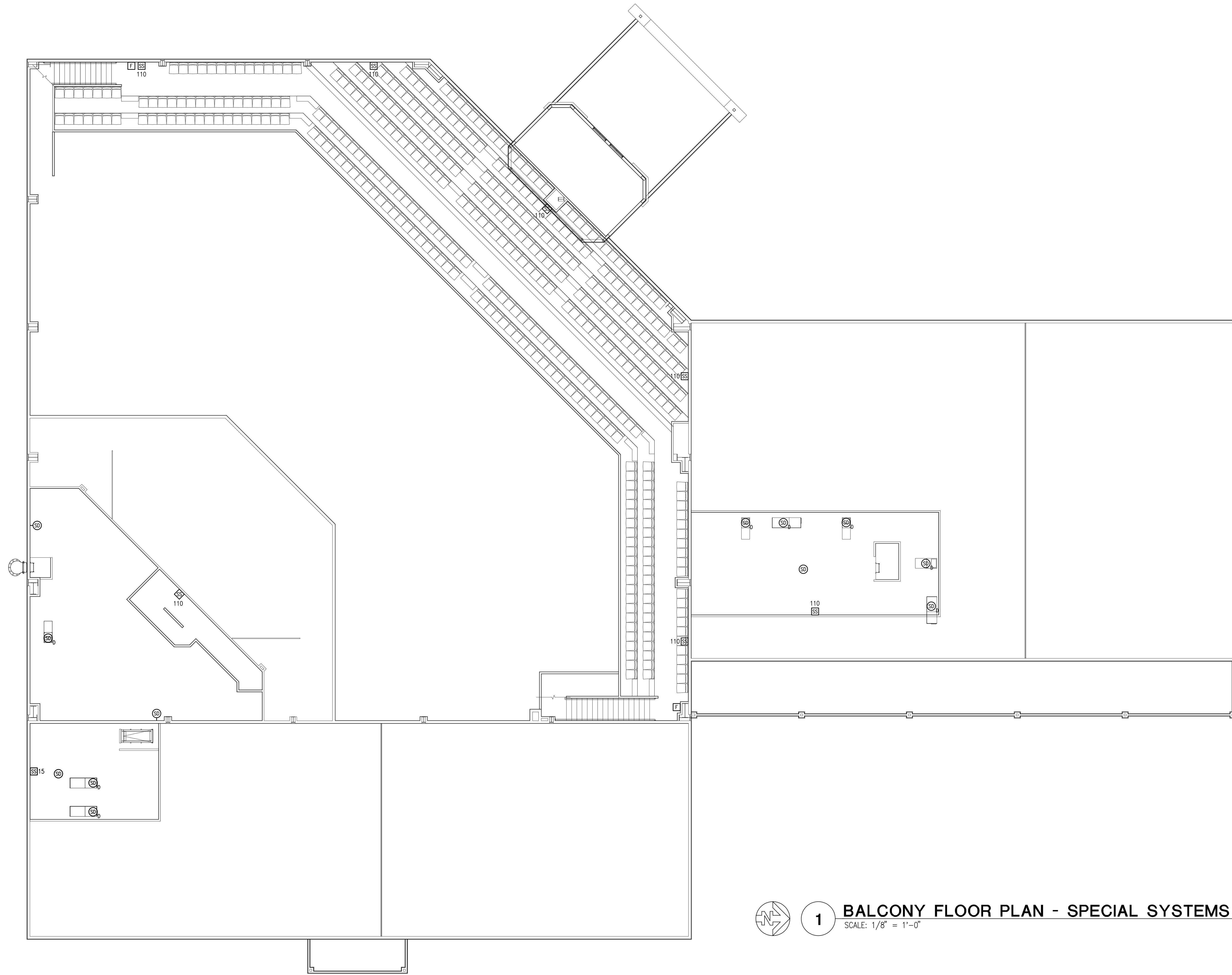
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E3.2



1

BALCONY FLOOR PLAN - SPECIAL SYSTEMS (ALT. 1)

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

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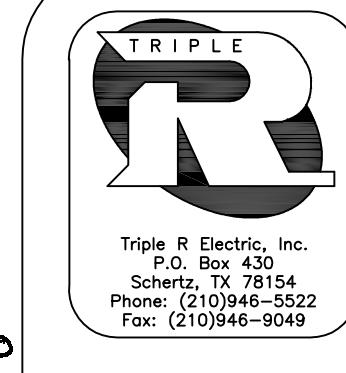
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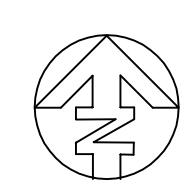
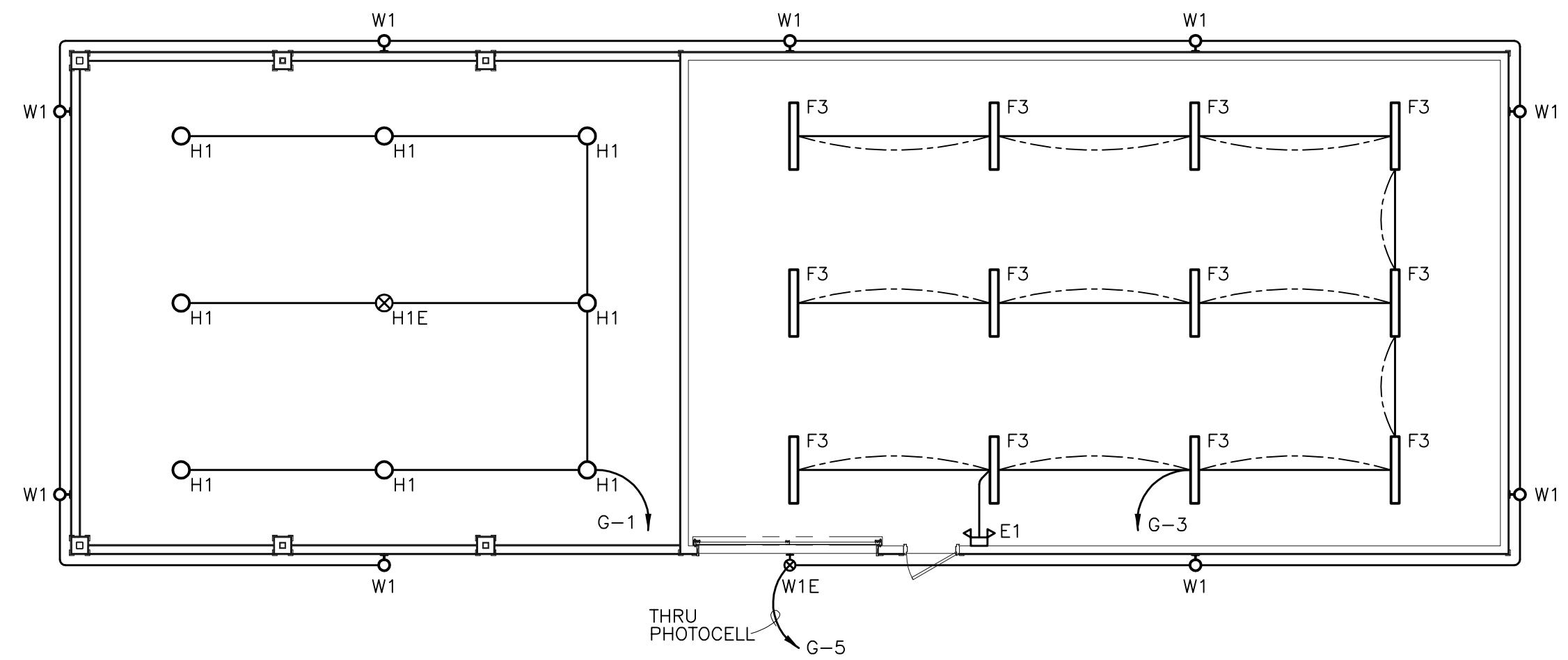


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84720
LICENSED PROFESSIONAL ENGINEER
01-09-10



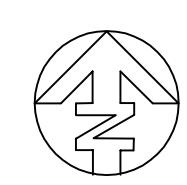
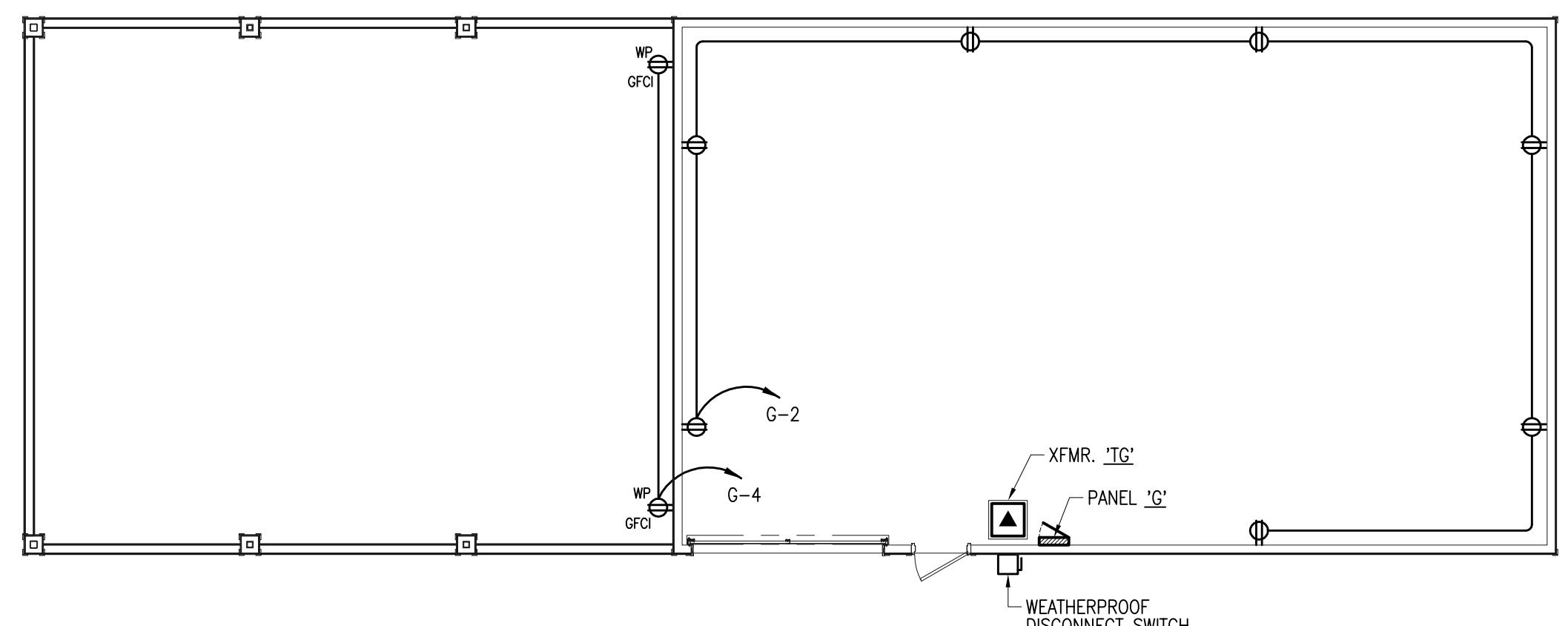
Triple R Electric, Inc.
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1 GARAGE (ALT. 2) FLOOR PLAN - LIGHTING

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



2 GARAGE (ALT. 2) FLOOR PLAN - POWER

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

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2826 ACKERMAN RD
SAN ANTONIO, TX 78219

drawn by: RLA date: 07/09/10

Job No.:

SHEET NUMBER:

E4.0

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KEYED NOTES: (THIS SHEET ONLY)

- ① AUDIO/VIDEO FLOOR BOXES PROVIDED BY OTHERS.
- ② PROVIDE A 30A/600V/3P/NF/N1 DISCONNECT SWITCH, AND EXTEND 3#10, 1#12 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
- ③ PROVIDE A 30A/600V/3P/NF/N3R DISCONNECT SWITCH, AND EXTEND 3#10, 1#12 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
- ④ EXTEND 3#10, 1#10 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.



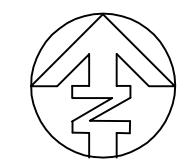
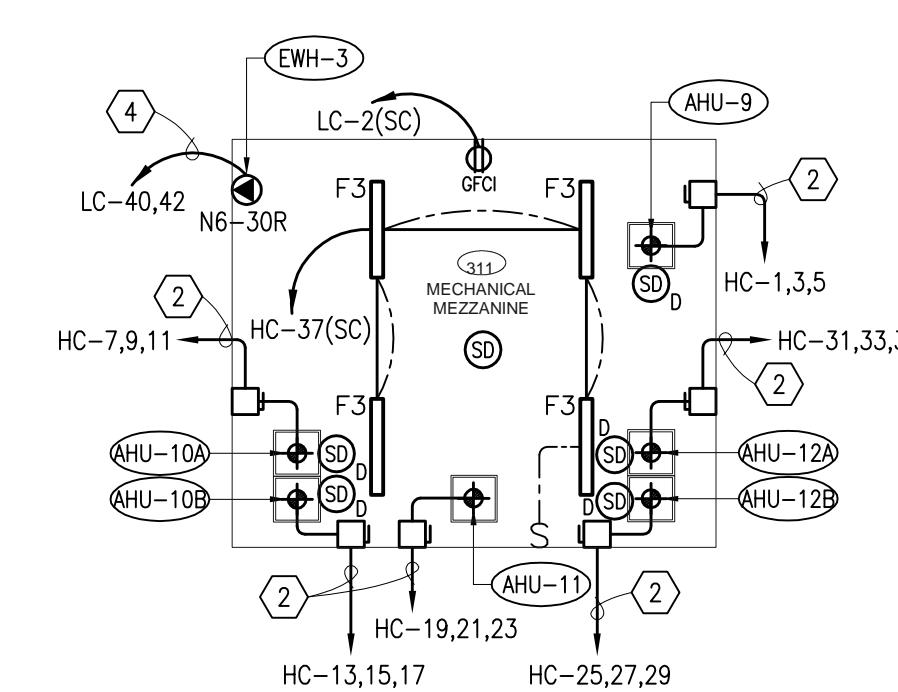
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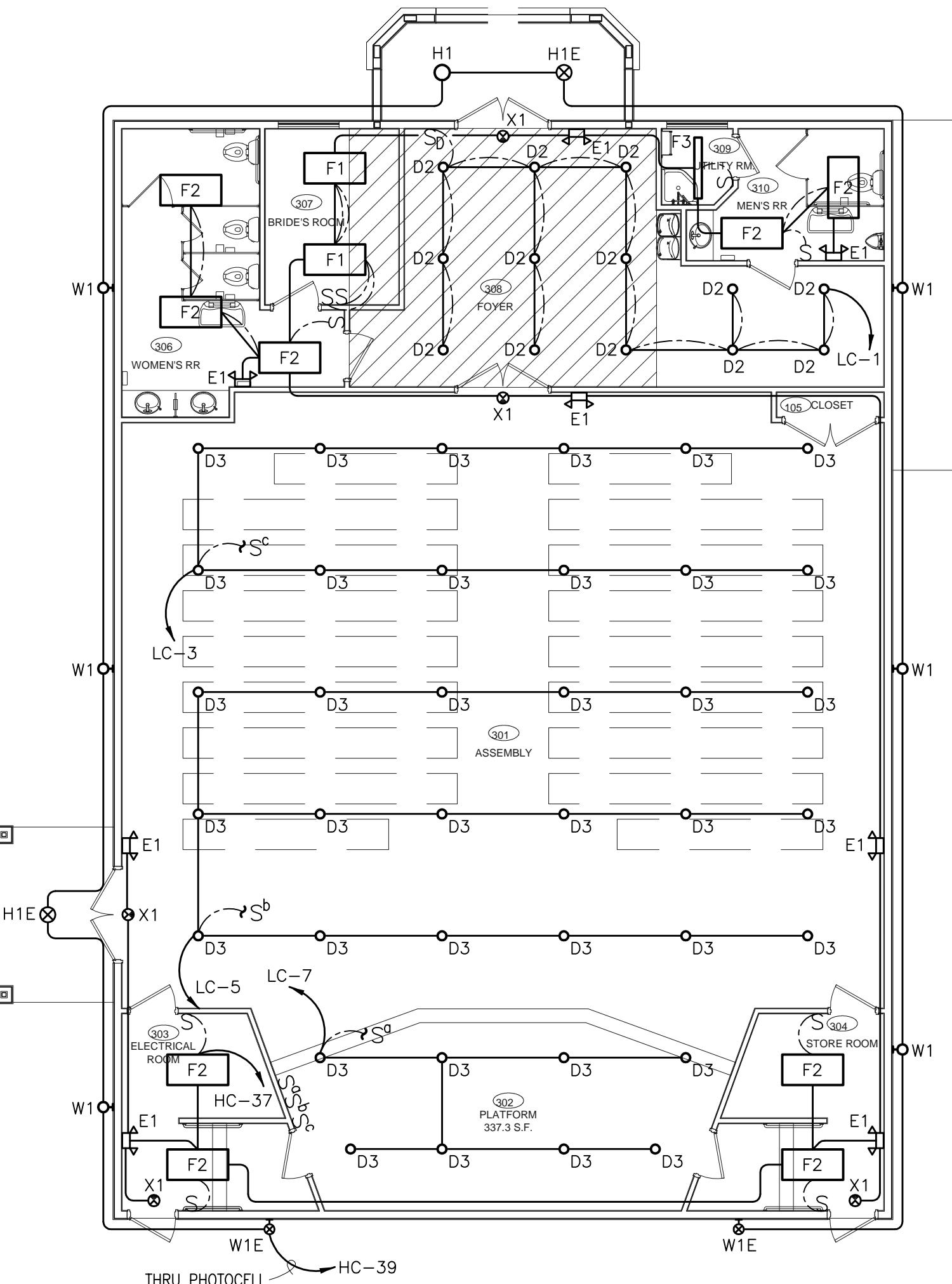
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3 MEZZANINE LEVEL - ELECTRICAL

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





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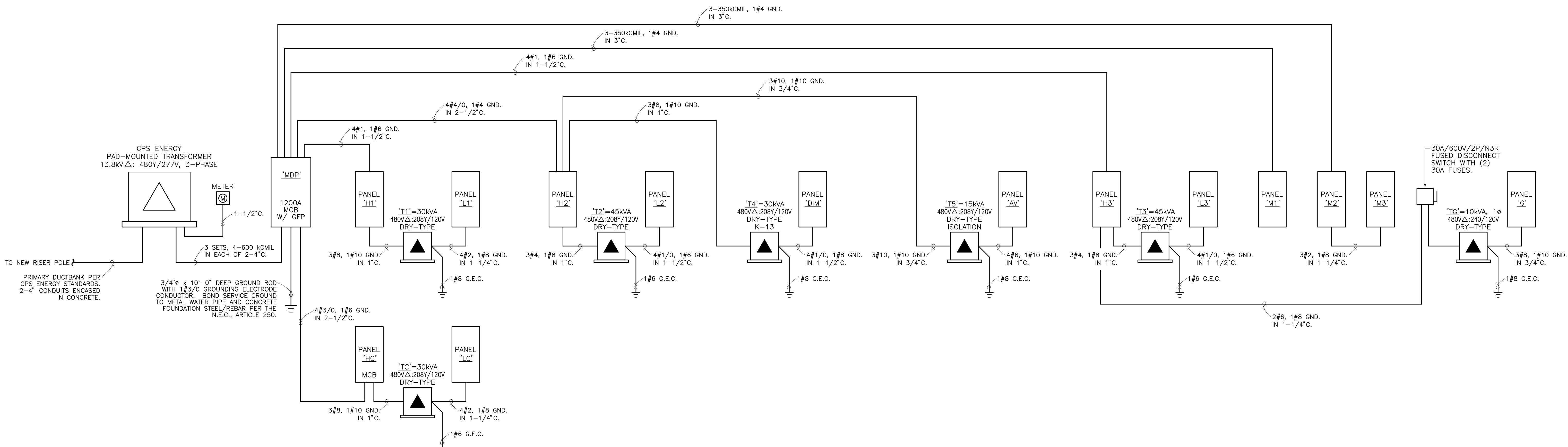
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RLA 07/09/10

SHEET NUMBER:

E5.0

ELECTRICAL LOAD ANALYSIS - BINGO BUILDING			
LOAD TYPE	LOAD - kVA	DEMAND FACTOR	DEMAND LOAD - kVA
LIGHTING	68.7	1.25	85.9
RECEPTACLES	39.6	0.63	24.8
A/C COOLING & HEAT PUMPS	712.3	1.00	712.3
ELECTRIC SPACE HEATING (NON-COINCIDENTAL)	348.0	0.00	0.0
MOTORS	4.6	1.00	4.6
OTHER / MISCELLANEOUS	44.0	1.00	44.0
ELECTRIC WATER HEATING	13.5	1.25	16.9
TOTAL LOAD (kVA)			888.4
TOTAL AMPS @ 480/277 VOLT - 3 PHASE			1069
ELECTRICAL SERVICE CAPACITY			1200 AMPS



1 ELECTRICAL RISER DIAGRAM

NOT TO SCALE



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PANEL: 'MDP'		VOLTAGE: 480/277 3PH, 4W			1200 AMP MCB* SURFACE MOUNT - NEMA 1 42K AIC SYM.							
					VOLT-AMPS							
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE		
6	1	PANEL 'H1'	125/3	9640	A	15400	70/3	RTU-2	2	3		
6	3	-	-	7440	B	15400	-	-	4	3		
6	5	-	-	8660	C	15400	-	-	6	3		
6	7	PANEL 'H2'	125/3	35535	A	15400	70/3	RTU-3	8	3		
6	9	-	-	26445	B	15400	-	-	10	3		
6	11	-	-	24370	C	15400	-	-	12	3		
6	13	PANEL 'H3'	125/3	21840	A	15400	70/3	RTU-6	14	3		
6	15	-	-	15056	B	15400	-	-	16	3		
6	17	-	-	13979	C	15400	-	-	18	3		
6	19	PANEL 'M1'	300/3	53540	A	15400	70/3	RTU-7	20	3		
6	21	-	-	53540	B	15400	-	-	22	3		
6	23	-	-	53540	C	15400	-	-	24	3		
6	25	PANEL 'M2'	300/3	63285	A	14000	70/3	RTU-12	26	3		
6	27	-	-	63285	B	14000	-	-	28	3		
6	29	-	-	63285	C	14000	-	-	30	3		
6	31	PANEL 'H4'	200/3	38955	A	4250	25/3	RTU-4	32	3		
6	33	-	-	39665	B	4250	-	-	34	3		
6	35	-	-	39580	C	4250	-	-	36	3		
37	BUSSED SPACE			A				BUSSED SPACE	38			
39	BUSSED SPACE			B				BUSSED SPACE	40			
41	BUSSED SPACE			C				BUSSED SPACE	42			
VOLT-AMPS		A PHASE	302645	NOTES: * PROVIDE MCB WITH GROUND-FAULT PROTECTION								
VOLT-AMPS		B PHASE	284681									
VOLT-AMPS		C PHASE	283264									
TOTAL CONNECTED VOLT-AMPS			870590	LOAD TYPE SUMMARY			KVA					
1 = LIGHTING												
2 = RECEPTACLES												
3 = COOLING												
4 = HEATING								239.6				
5 = MOTORS												
6 = OTHER								599.8				

PANEL: 'M1'		VOLTAGE: 480 3PH, 3W			400 AMP MLO SURFACE MOUNT - NEMA 1 25K AIC SYM.							
					VOLT-AMPS							
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE		
3	1	RTU-1	35/3	15400	A	1420	15/3	CU-1	2	3		
3	3	-	-	15400	B	1420	-	-	4	3		
3	5	-	-	15400	C	1420	-	-	6	3		
3	7	RTU-5	50/3	8000	A	1420	15/3	CU-2A	8	3		
3	9	-	-	8000	B	1420	-	-	10	3		
3	11	-	-	8000	C	1420	-	-	12	3		
3	13	AHU-1	20/3	3860	A	1420	15/3	CU-2B	14	3		
3	15	-	-	3860	B	1420	-	-	16	3		
3	17	-	-	3860	C	1420	-	-	18	3		
3	21	AHU-2	20/3	3860	A	1600	15/3	CU-3B	26	3		
3	23	-	-	3860	B	1600	-	-	28	3		
3	25	-	-	3860	C	1600	-	-	30	3		
3	31	AHU-3A	25/3	5550	A	-	-	BUSSED SPACE	32			
3	33	-	-	5550	B	-	-	BUSSED SPACE	34			
3	35	-	-	5550	C	-	-	BUSSED SPACE	36			
3	37	AHU-3B	25/3	5550	A	-	-	BUSSED SPACE	38			
3	39	-	-	5550	B	-	-	BUSSED SPACE	40			
3	41	-	-	5550	C	-	-	BUSSED SPACE	42			
VOLT-AMPS		A PHASE	53540	NOTES: * PROVIDE MCB WITH GROUND-FAULT PROTECTION								
VOLT-AMPS		B PHASE	53540									
VOLT-AMPS		C PHASE	53540	LOAD TYPE SUMMARY			KVA					
1 = LIGHTING												
2 = RECEPTACLES												
3 = COOLING								168.0				
4 = HEATING												
5 = MOTORS												
6 = OTHER												

PANEL: 'H2'		VOLTAGE: 277/480 3PH, 4W			225 AMP MLO SURFACE MOUNT - NEMA 1 25K AIC SYM		



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drawn by: date:
RLA 01/09/10
Job No.

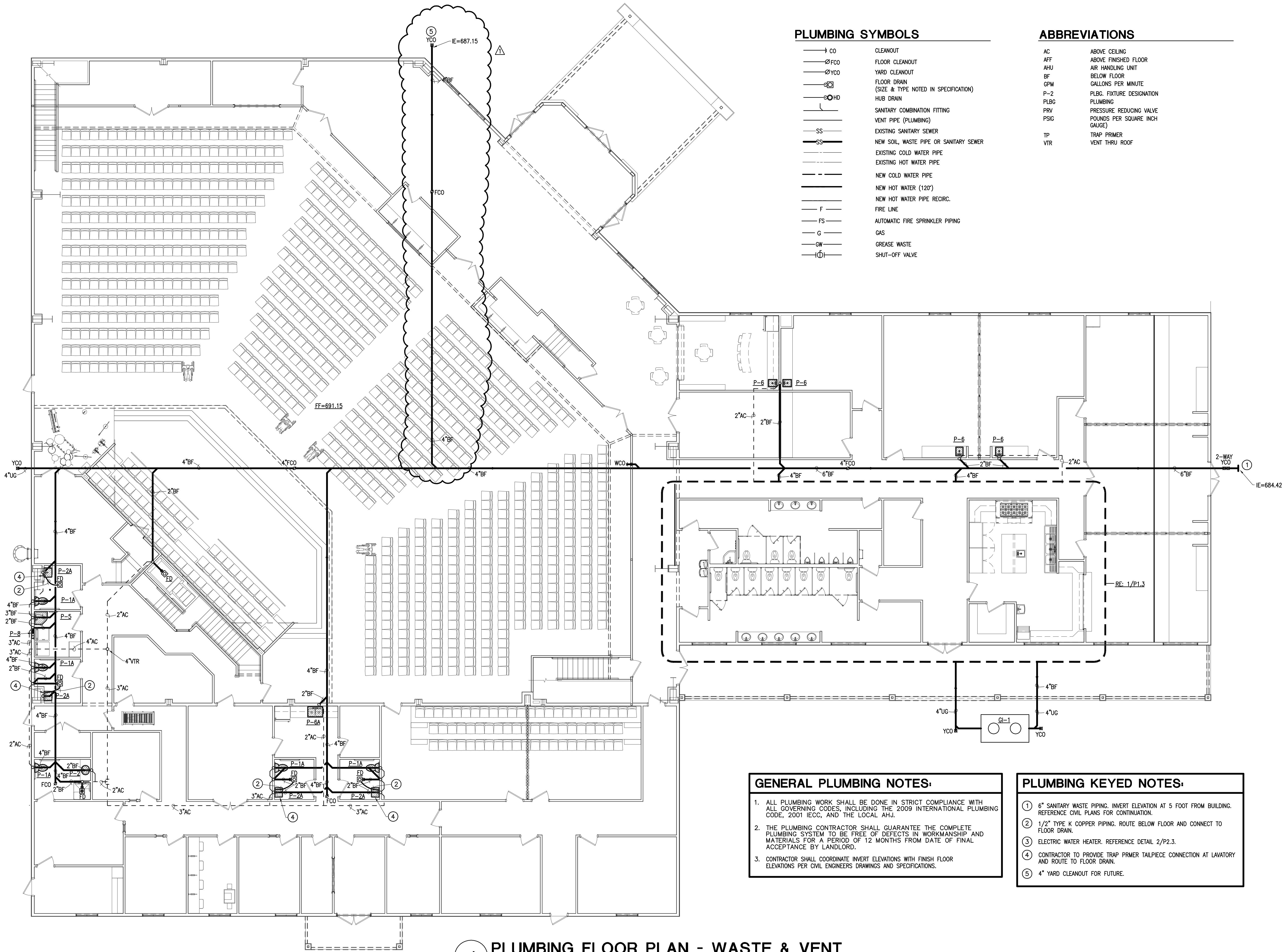
Sheet Number:

E6.1

DIM		VOLTAGE: 120/208 3PH, 4W		100 AMP MCB	SURFACE MOUNT - NEMA 1 10K AIC SYM.	
				225A BUS	200% NEUTRAL BUS	
				VOLT-AMPS		
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD
1	1	BAPTISTRY LIGHTING	20/1	600	A	1200
1	3	ASSEMBLY LIGHTING	20/1	750	B	900
1	5	ASSEMBLY LIGHTING	20/1	600	C	1200
1	7	ASSEMBLY LIGHTING	20/1	1050	A	900
1	9	ASSEMBLY LIGHTING	20/1	900	B	1200
1	11	ASSEMBLY LIGHTING	20/1	900	C	1200
1	13	ASSEMBLY LIGHTING	20/1	1050	A	900
1	15	ASSEMBLY LIGHTING	20/1	1200	B	900
1	17	ASSEMBLY LIGHTING	20/1	1200	C	900
1	19	ASSEMBLY LIGHTING	20/1	1350	A	900
1	21	ASSEMBLY LIGHTING	20/1	1350	B	900
1	23	ASSEMBLY LIGHTING	20/1	1350	C	900
1	25	ASSEMBLY LIGHTING	20/1	1350	A	900
27		SPARE	20/1		B	
29		SPARE	20/1		C	
31		SPARE	20/1		A	
33		BUSSED SPACE	20/1		B	
35		BUSSED SPACE	20/1		C	
37		BUSSED SPACE	20/1		A	
39		BUSSED SPACE	20/1		B	
41		BUSSED SPACE	20/1		C	
VOLT-AMPS		A PHASE	10200	NOTE:		
VOLT-AMPS		B PHASE	8100			
VOLT-AMPS		C PHASE	8250			
TOTAL CONNECTED VOLT-AMPS			26550	LOAD TYPE SUMMARY		
1		1 = LIGHTING	26.6			
2		2 = RECEPTACLES	-			
3		3 = COOLING	-			
4		4 = HEATING	-			
5		5 = MOTORS	-			
6		6 = OTHER	-			
PANEL VOLTAGE			208			
TOTAL CONNECTED LOAD - AMPS			73.7			

AV		VOLTAGE: 120/208 3PH, 4W		100 AMP MCB	SURFACE MOUNT - NEMA 1 10K AIC SYM.	
				225A BUS	200% NEUTRAL BUS	
				VOLT-AMPS		
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD
6	1	A/V FLOOR BOXES	20/1	800	A	800
6	3	A/V FLOOR BOXES	20/1	800	B	800
6	5	A/V FLOOR BOXES	20/1	800	C	800
6	7	SOUND ROOM EQUIP.	20/1	800	A	800
6	9	SOUND ROOM EQUIP.	20/1	800	B	800
6	11	SOUND ROOM EQUIP.	20/1	800	C	800
6	13	SOUND ROOM EQUIP.	20/1	800	A	800
6	15	SOUND ROOM EQUIP.	20/1	800	B	800
17		SPARE	20/1		C	
19		SPARE	20/1		A	
21		SPARE	20/1		B	
23		BUSSED SPACE	20/1		C	
25		BUSSED SPACE	20/1		A	
27		BUSSED SPACE	20/1		B	
29		BUSSED SPACE	20/1		C	
31		BUSSED SPACE	20/1		A	
33		BUSSED SPACE	20/1		B	
35		BUSSED SPACE	20/1		C	
37		BUSSED SPACE	20/1		A	
39		BUSSED SPACE	20/1		B	
41		BUSSED SPACE	20/1		C	
VOLT-AMPS		A PHASE	4800	NOTE:		
VOLT-AMPS		B PHASE	4000			
VOLT-AMPS		C PHASE	3200			
TOTAL CONNECTED VOLT-AMPS			12000	LOAD TYPE SUMMARY		
1		1 = LIGHTING	-			
2		2 = RECEPTACLES	-			
3		3 = COOLING	-			
4		4 = HEATING	-			
5		5 = MOTORS	-			
6		6 = OTHER	-			
PANEL VOLTAGE			208			
TOTAL CONNECTED LOAD - AMPS			33.3			

L3		VOLTAGE: 120/208 3PH, 4W		150 AMP MCB	SURFACE MOUNT - NEMA 1 10K AIC SYM.	
				225A BUS	200% NEUTRAL BUS	
				VOLT-AMPS		
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD
6	1	REFRIGERATOR	20/1	1200	A	720
2	3	GFCI RECEPTACLES	20/1	360	B	720
2	5	GFCI RECEPTACLES	20/1	900	C	540
2	7	GFCI RECEPTACLES	20/1	720	A	720
2	9	GFCI RECEPTACLES	20/1	720	B	900
2	11	GFCI RECEPTACLES	20/1	900	C	540
2	13	GFCI RECEPTACLES	20/1	900	A	4000
2	15	GFCI RECEPTACLES	20/1	720	B	4000
6	17	ELEC. DRINKING FOUNTAIN	20/1	1000	C	4000
6	19	SPARE	20/1		A	4000
6	21	REFRIGERATOR	20/1	1200	B	540
6	23	REFRIGERATOR	20/1	1200	C	540
6	25	DISHWASHER	20/1	800	A	180
2	27	GFCI RECEPTACLES	20/1	720	B	20/1
2	29	WATER FOUNTAIN	20/1	180	C	20/1
6	31	EF-1	20/1	1200	A	20/1
6	33	EF-1	20/1	900	B	20/1
6	35	(2) EF-2	20/1	696	C	20/1
37		SPARE	20/1		A	
39		SPARE	20/1		B	
41		SPARE	20/1		C	
VOLT-AMPS		A PHASE	14440	NOTE:		
VOLT-AMPS		B PHASE	10780			
VOLT-AMPS		C PHASE	10496			
TOTAL CONNECTED VOLT-AMPS			35716	LOAD TYPE SUMMARY		
1		1 = LIGHTING	-			



PLUMBING SYMBOLS

— CO	CLEANOUT
— Ø FCO	FLOOR CLEANOUT
— Ø YCO	YARD CLEANOUT
— ☐ ☐	FLOOR DRAIN (SIZE & TYPE NOTED IN SPECIFICATION)
— ☐ ☐ HD	HUB DRAIN
— L	SANITARY COMBINATION FITTING
— — — —	VENT PIPE (PLUMBING)
— SS — — —	EXISTING SANITARY SEWER
— SS — — —	NEW SOIL, WASTE PIPE OR SANITARY SEWER
— — — —	EXISTING COLD WATER PIPE
— — — —	EXISTING HOT WATER PIPE
— — — —	NEW COLD WATER PIPE
— — — —	NEW HOT WATER (120°)
— — — —	NEW HOT WATER PIPE RECIRC.
— F — — —	FIRE LINE
— FS — — —	AUTOMATIC FIRE SPRINKLER PIPING
— G — — —	GAS
— GW — — —	GREASE WASTE
— Ø	SHUT-OFF VALVE

ABBREVIATIONS

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BF	BELOW FLOOR
GPM	GALLONS PER MINUTE
P-2	PLBG. FIXTURE DESIGNATION
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
TP	TRAP PRIMER
VTR	VENT THRU ROOF

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SAN

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SHEET NUMBER

P1 .

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL GOVERNING CODES, INCLUDING THE 2009 INTERNATIONAL PLUMBING CODE, 2001 IECC, AND THE LOCAL AHJ.
2. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE BY LANDLORD.
3. CONTRACTOR SHALL COORDINATE INVERT ELEVATIONS WITH FINISH FLOOR ELEVATIONS PER CIVIL ENGINEERS DRAWINGS AND SPECIFICATIONS.

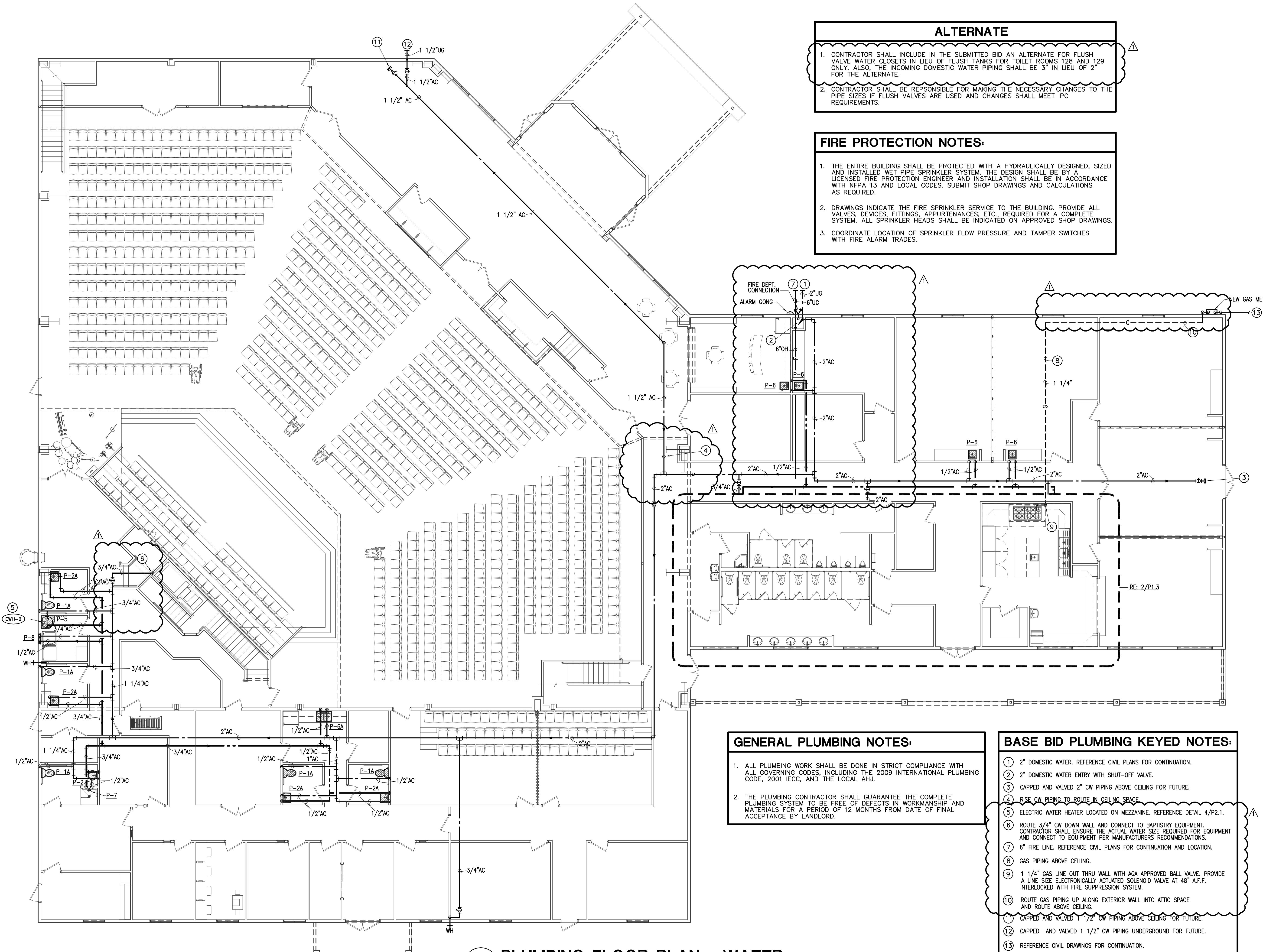
PLUMBING KEYED NOTES:

- ① 6" SANITARY WASTE PIPING. INVERT ELEVATION AT 5 FOOT FROM BUILDING. REFERENCE CIVIL PLANS FOR CONTINUATION.
- ② 1/2" TYPE K COPPER PIPING. ROUTE BELOW FLOOR AND CONNECT TO FLOOR DRAIN.
- ③ ELECTRIC WATER HEATER. REFERENCE DETAIL 2/P2.3.
- ④ CONTRACTOR TO PROVIDE TRAP PRIMER TAILPIECE CONNECTION AT LAVATORY AND ROUTE TO FLOOR DRAIN.
- ⑤ 4" YARD CLEANOUT FOR FUTURE.

REVISIONS:

DATE BY
8/2/10TRUE VISION CHURCH
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PLUMBING FLOOR PLAN - WATER



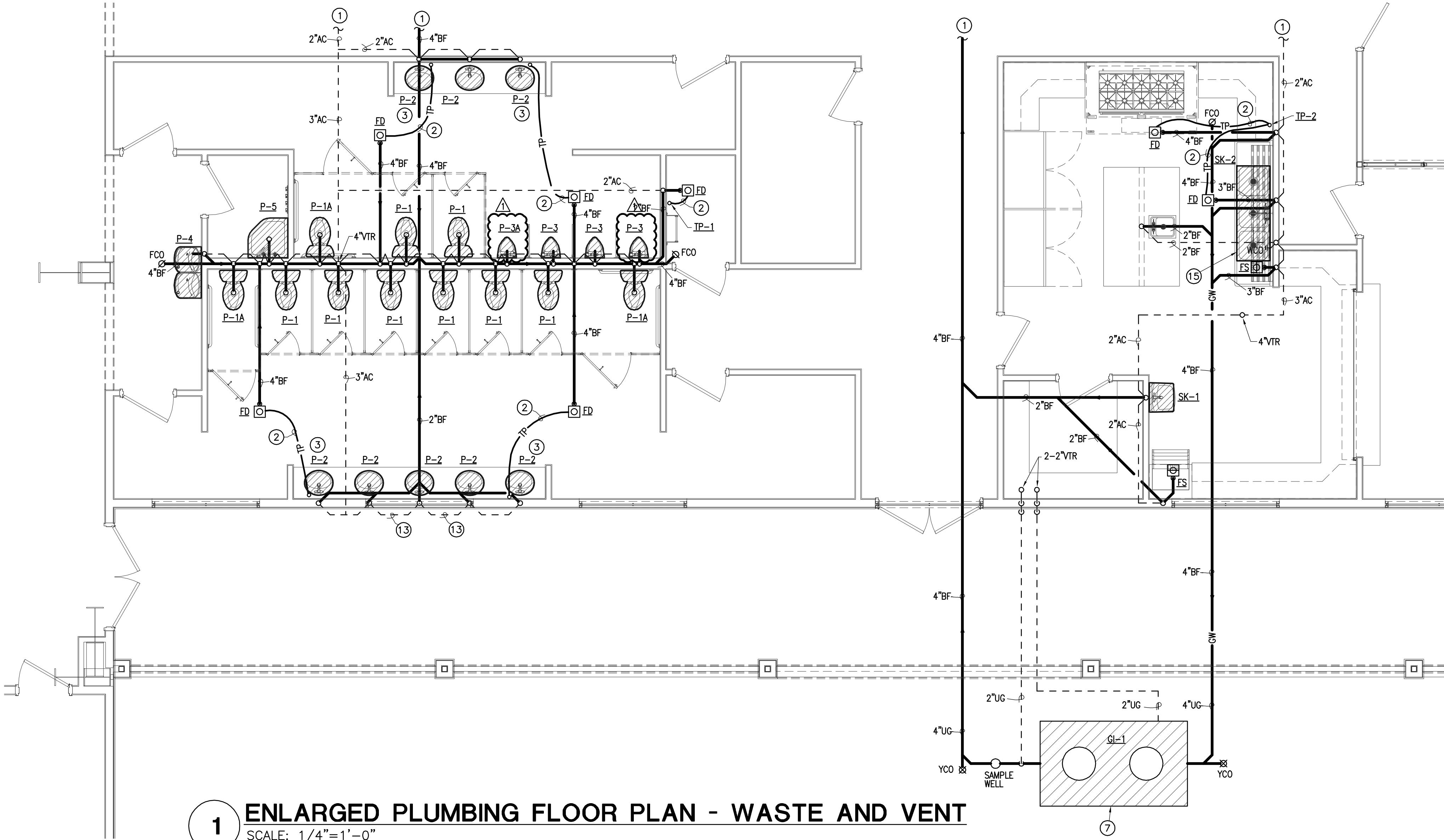
1 PLUMBING FLOOR PLAN - WATER
SCALE: 1/8"=1'-0"

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P1.2

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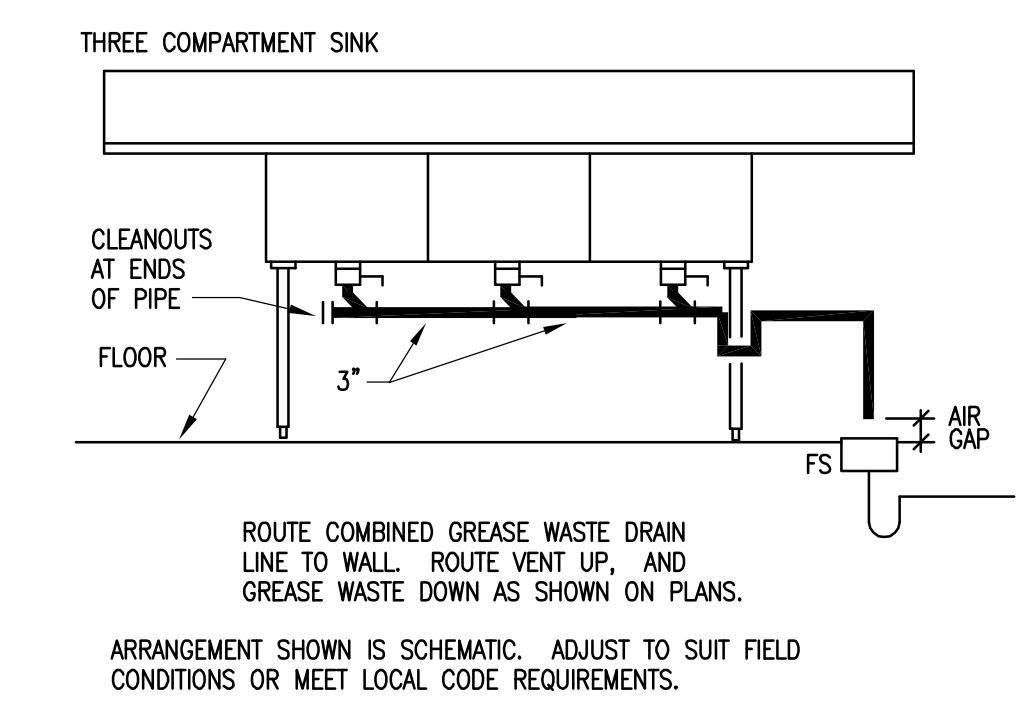
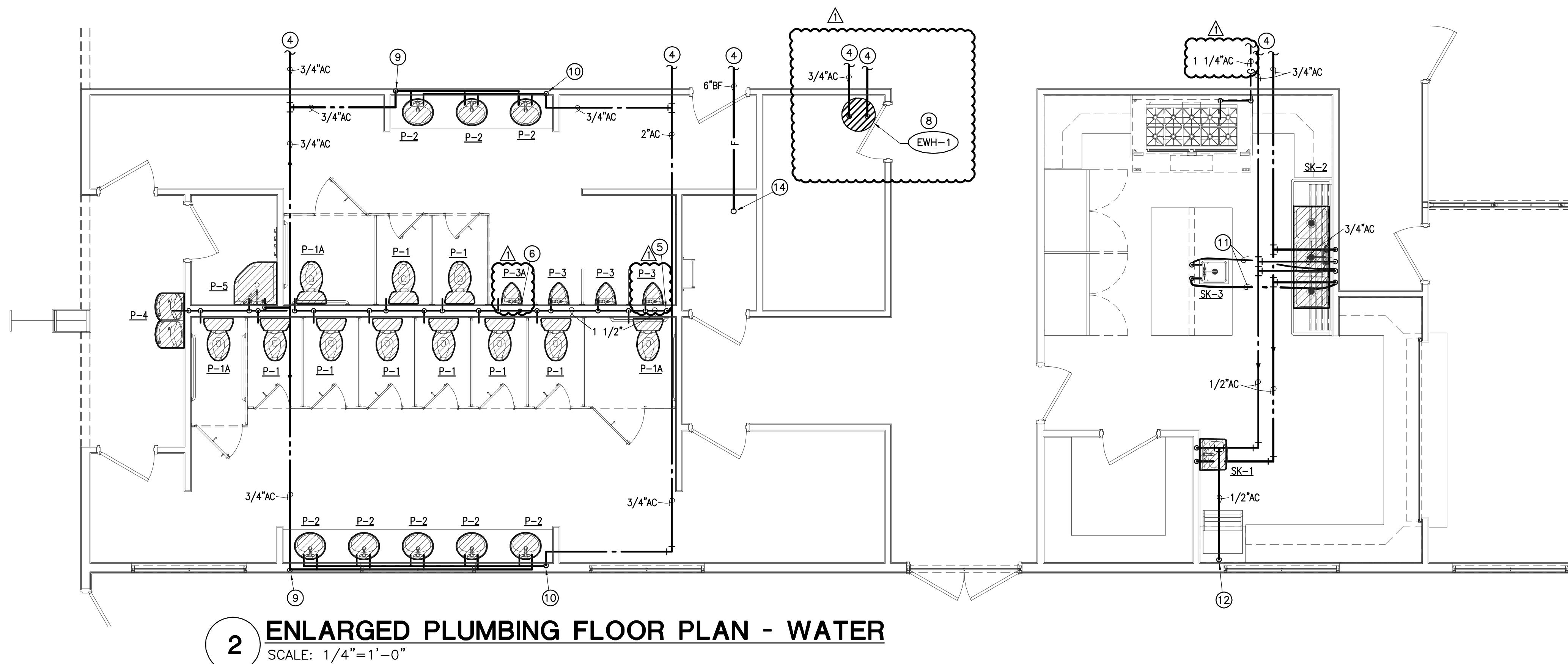


GENERAL PLUMBING NOTES:

- ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL GOVERNING CODES, INCLUDING THE 2009 IPC, 2001 IECC, AND THE LOCAL AHJ.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE BY LANDLORD.

PLUMBING KEYED NOTES:

- REFERENCE SHEET P1.1 FOR CONTINUATION
- 1/2" TYPE K COPPER PIPING. ROUTE BELOW FLOOR AND CONNECT TO FLOOR DRAIN.
- CONTRACTOR TO PROVIDE TRAP PRIMER TAILPIECE CONNECTION AT LAVATORY AND ROUTE TO FLOOR DRAIN.
- REFERENCE SHEET P1.2 FOR CONTINUATION
- 1 1/2" CW DOWN AND CONNECT TO 1 1/2" CW HEADER IN CHASE.
- PROVIDE TYPE "C" WATER HAMMER ARRESTOR WITH ACCESS DOOR.
- GREASE INTERCEPTOR. REFERENCE DETAIL 3/P2.2.
- WATER HEATER IN MEZZANINE REFERENCE DETAIL 4/P2.1.
- 3/4" HW DOWN AND ROUTE TO FIXTURES.
- 3/4" CW DOWN AND ROUTE TO FIXTURES.
- 1/2" HOT AND COLD WATER SOFT COPPER PIPING IN FLOOR SLAB.
- 1/2" CW DOWN AND CONNECT TO OWNER PROVIDED ICE MAKER FILTER.
- VENT PIPING ROUGH-IN SHALL BE ROUTED BELOW WINDOW FRAMING.
- 6" FIRE LINE. REFERENCE DETAIL 5/P2.1.
- SK-2, THREE COMPARTMENT SINK SHALL DISCHARGE THROUGH AN INDIRECT WASTE PIPING IN ACCORDANCE WITH IPC AND LOCAL PLUMBING CODE.



3 THREE COMPARTMENT SINK DETAIL

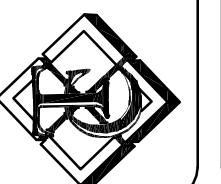
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A ##### (INT'S)

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PLUMBING FLOOR PLANS - CHAPEL BUILDING

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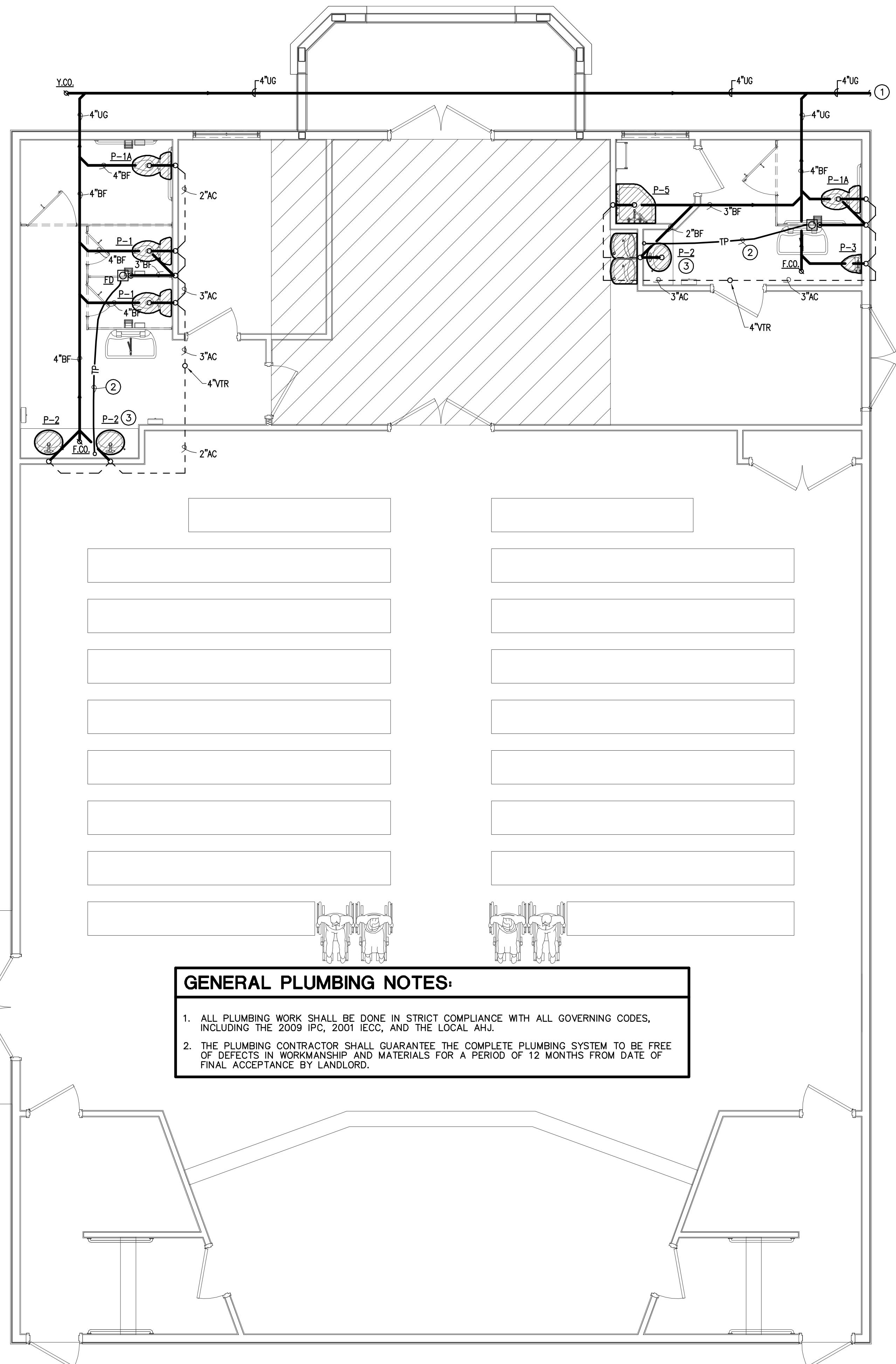


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SHEET NUMBER

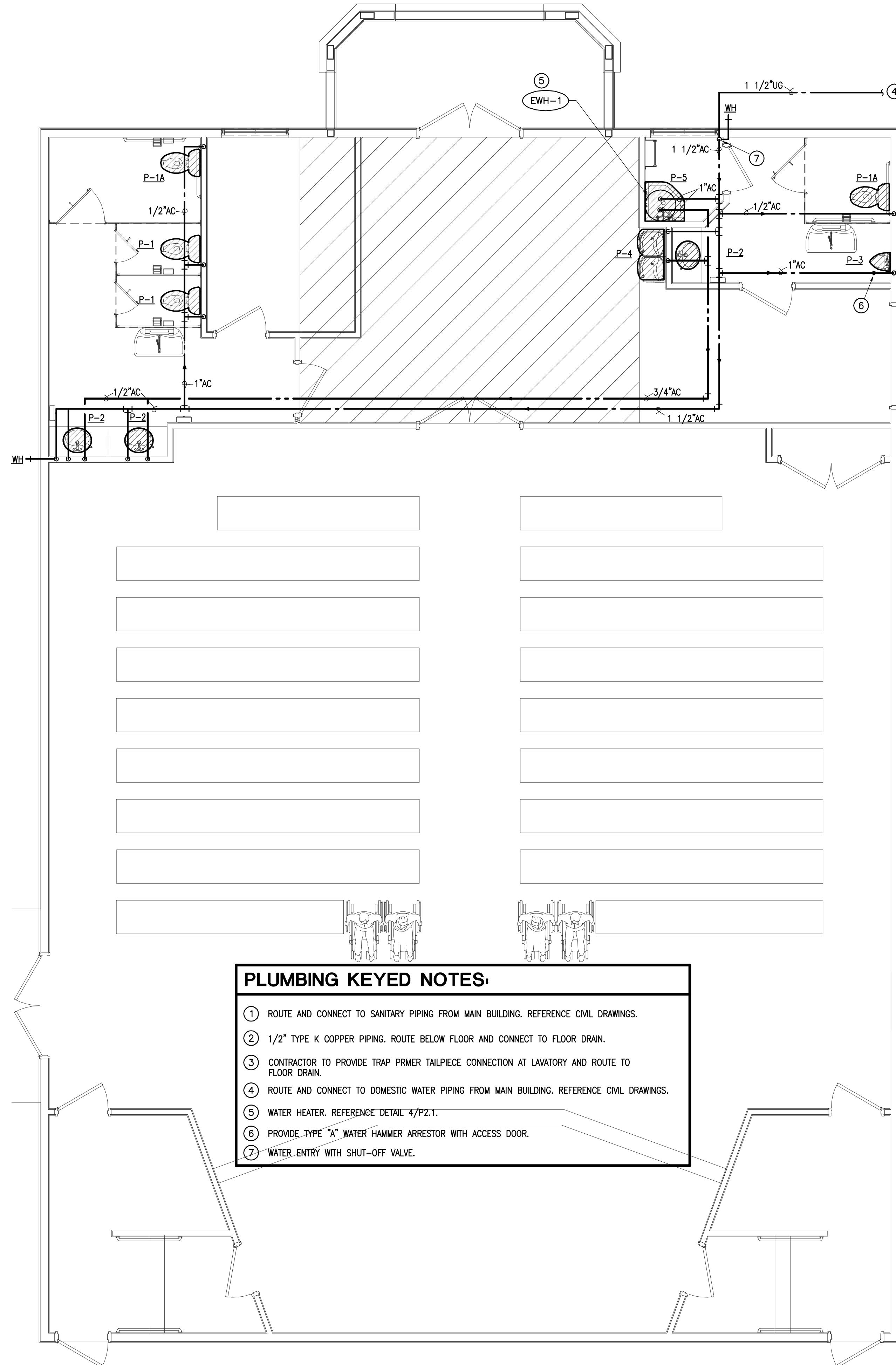
P1.4



1

PLUMBING FLOOR PLAN - WASTE AND VENT

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



2

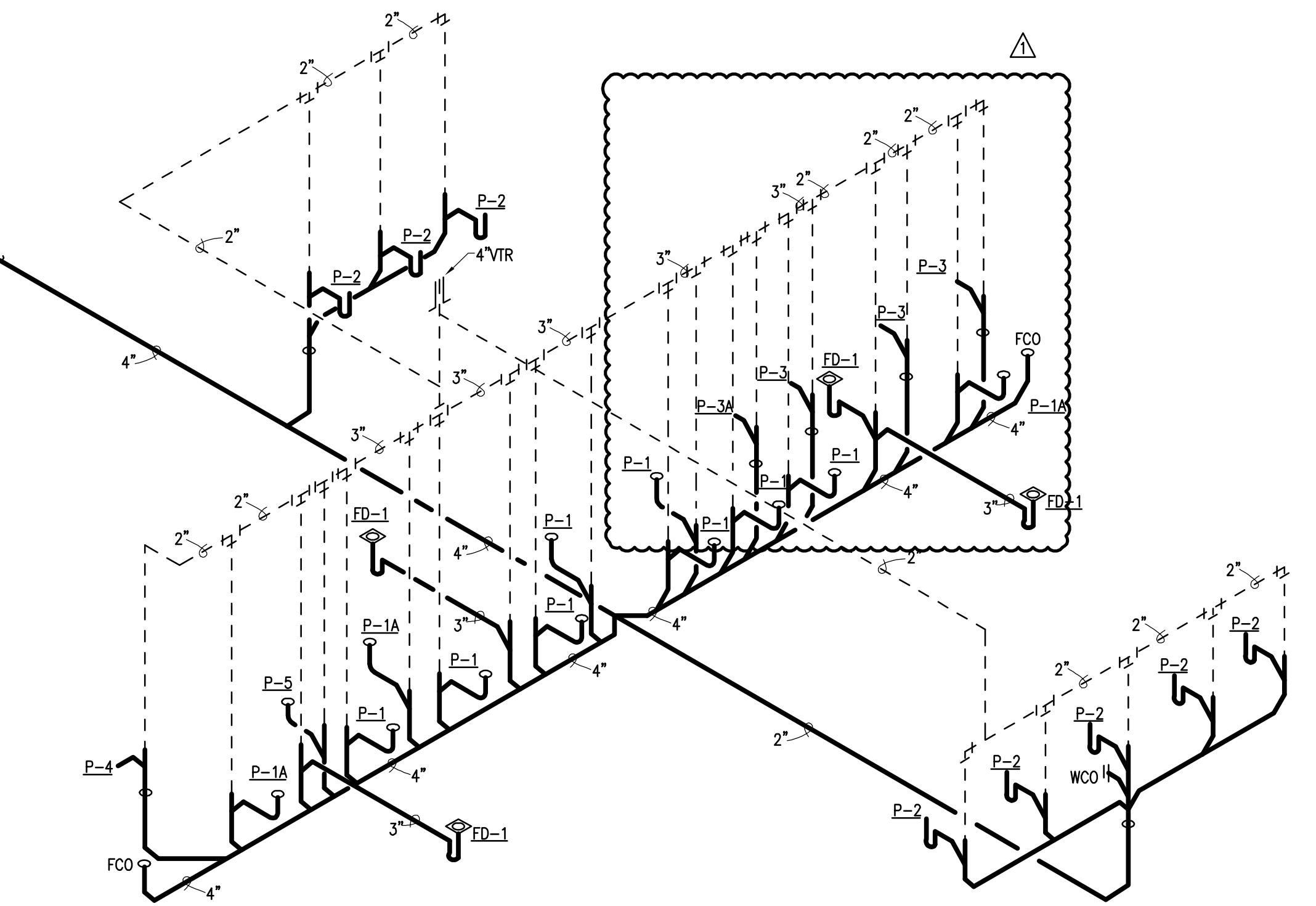
PLUMBING FLOOR PLAN - WATER

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

REVISIONS:
DATE BY
8/2/10

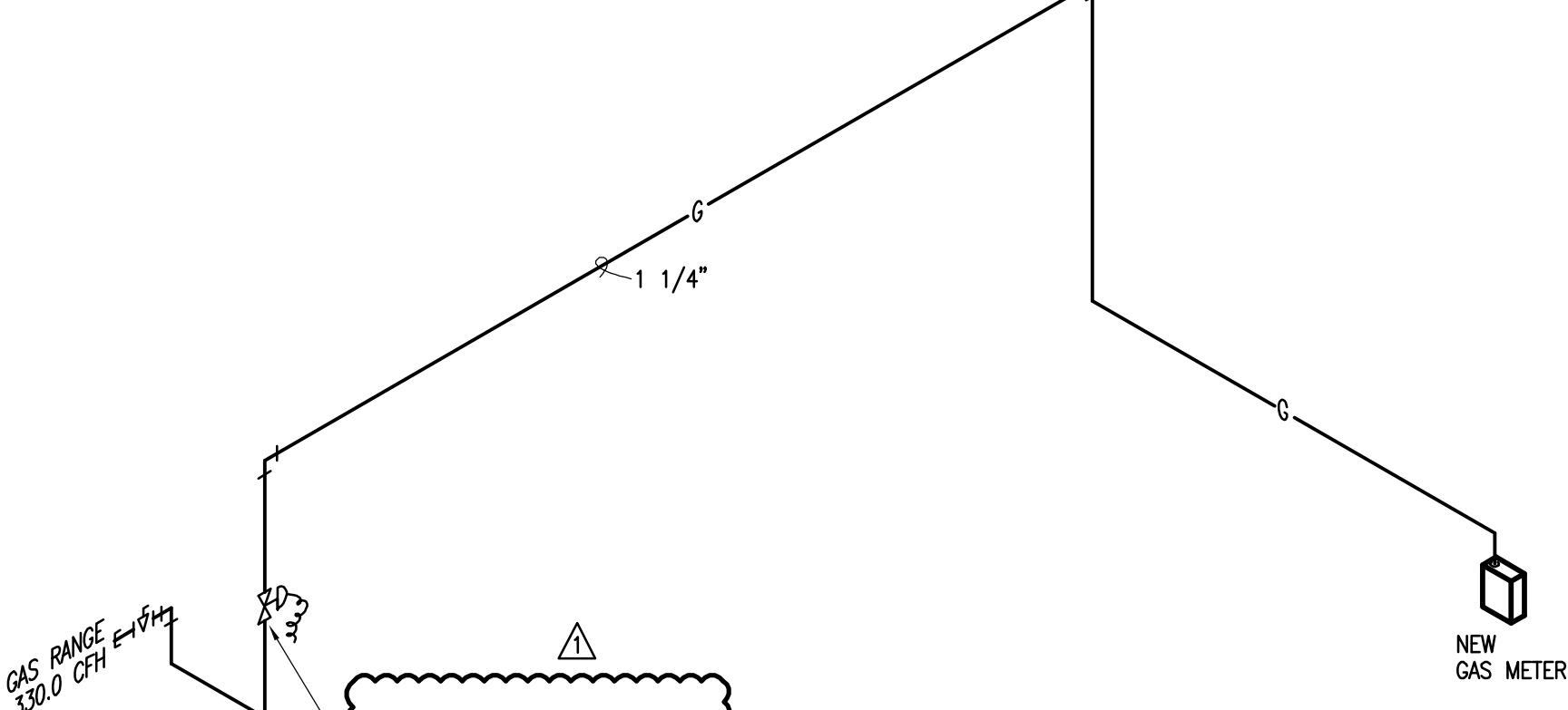
TRUE VISION CHURCH
ACKERMAN ROAD
SAN ANTONIO, TX 78219

PLUMBING RISERS



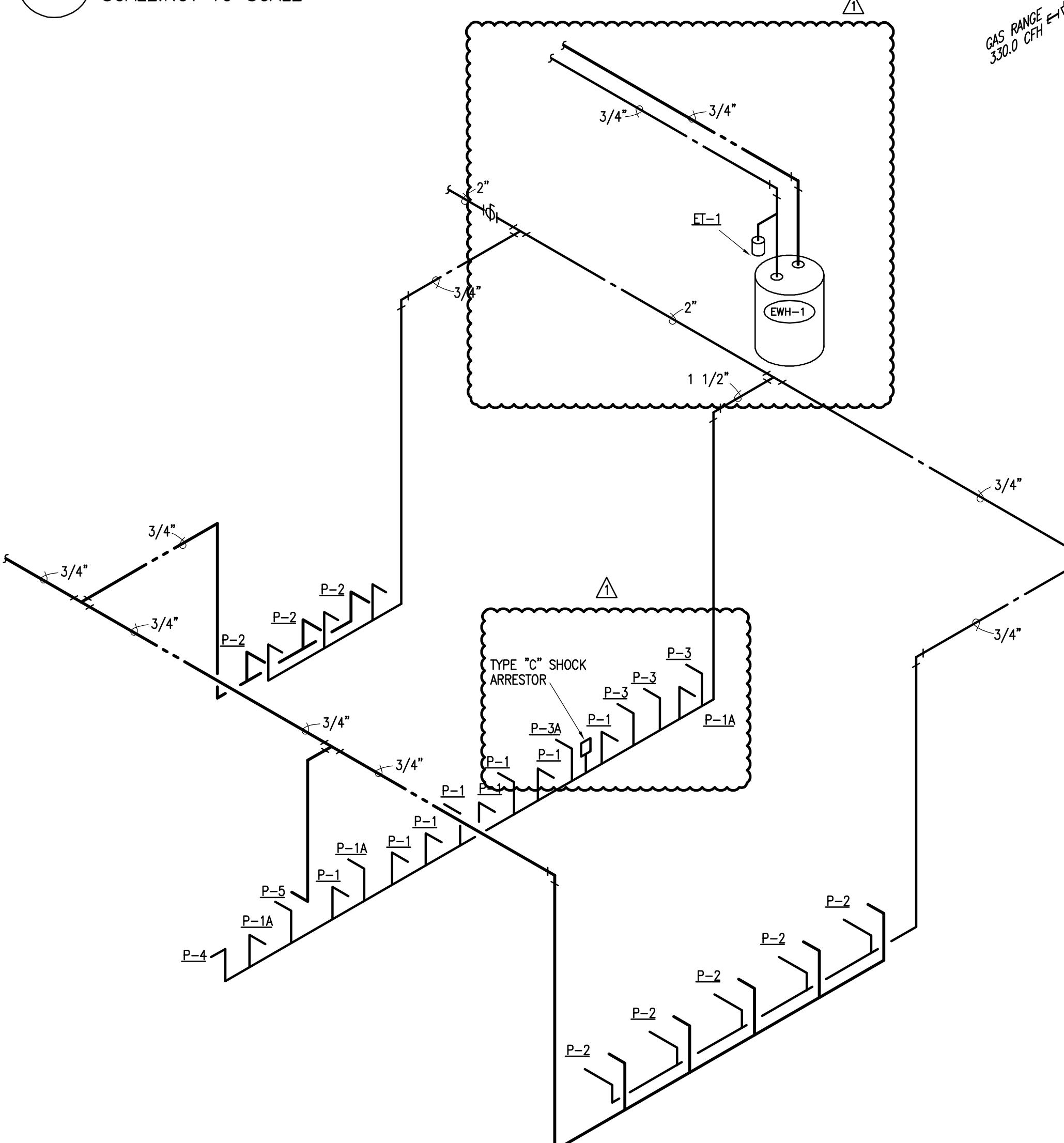
1 PLUMBING RISER - WASTE AND VENT

SCALE: NOT TO SCALE



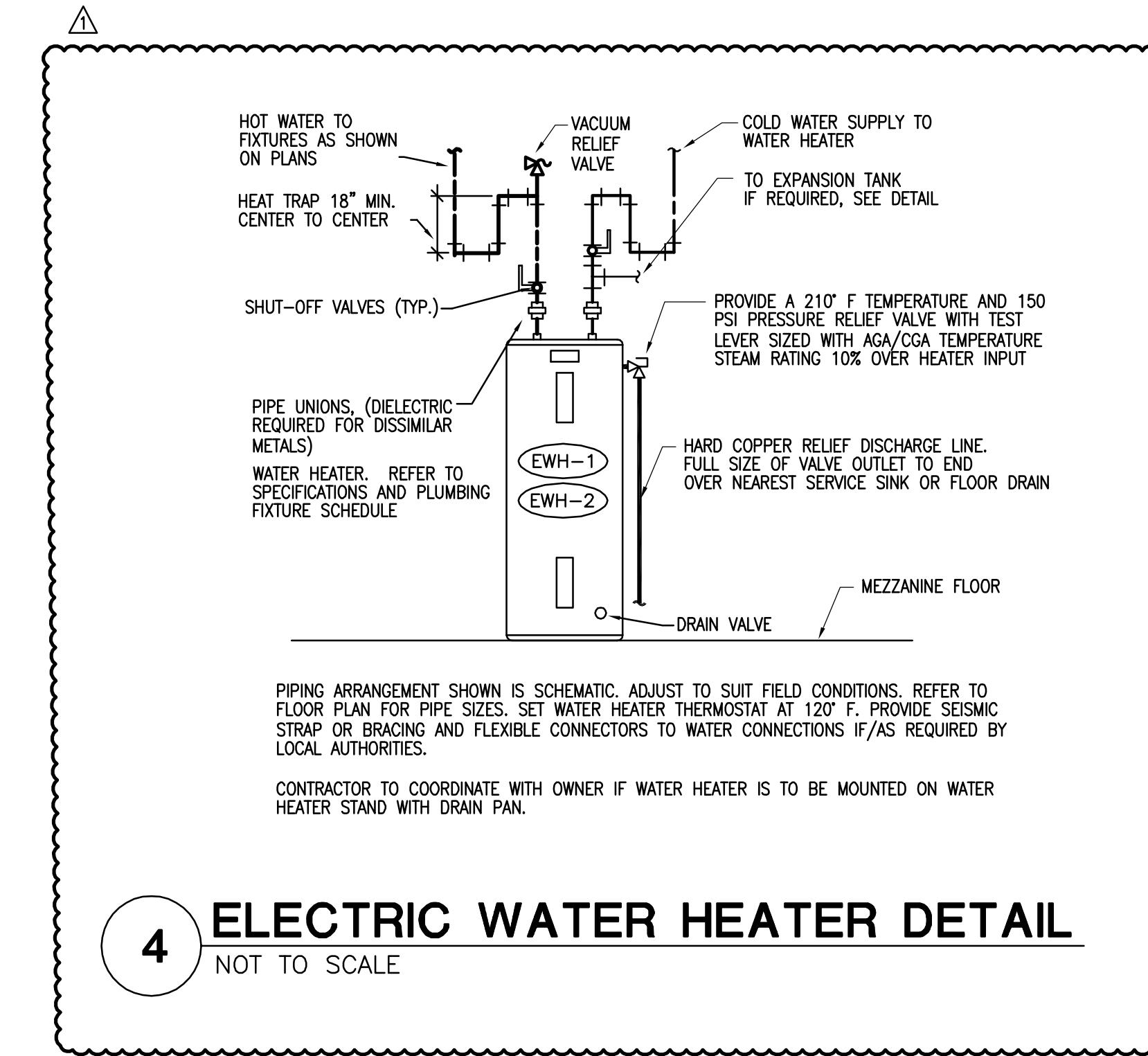
3 PLUMBING RISER - GAS

SCALE: NOT TO SCALE



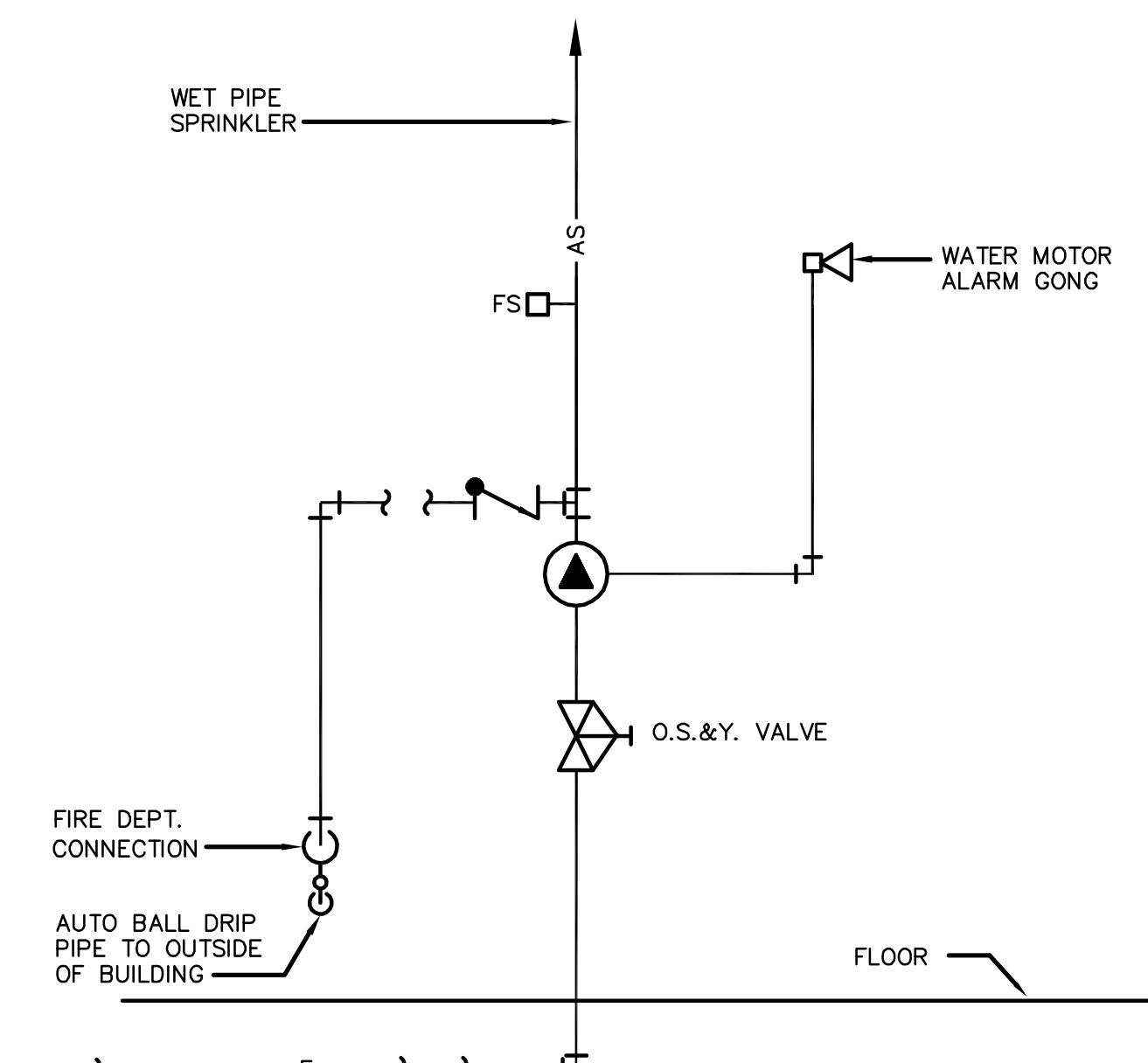
2 PLUMBING RISER - WATER

SCALE: NOT TO SCALE



4 ELECTRIC WATER HEATER DETAIL

NOT TO SCALE



5 FIRE SPRINKLER ALARM
VALVE ASSEMBLY SCHEMATIC
(DETAIL IS FOR REFERENCE ONLY)

P2.1

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ENGINEERING
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(210) 257-9887
m.garcia82@yahoo.com
F#12219

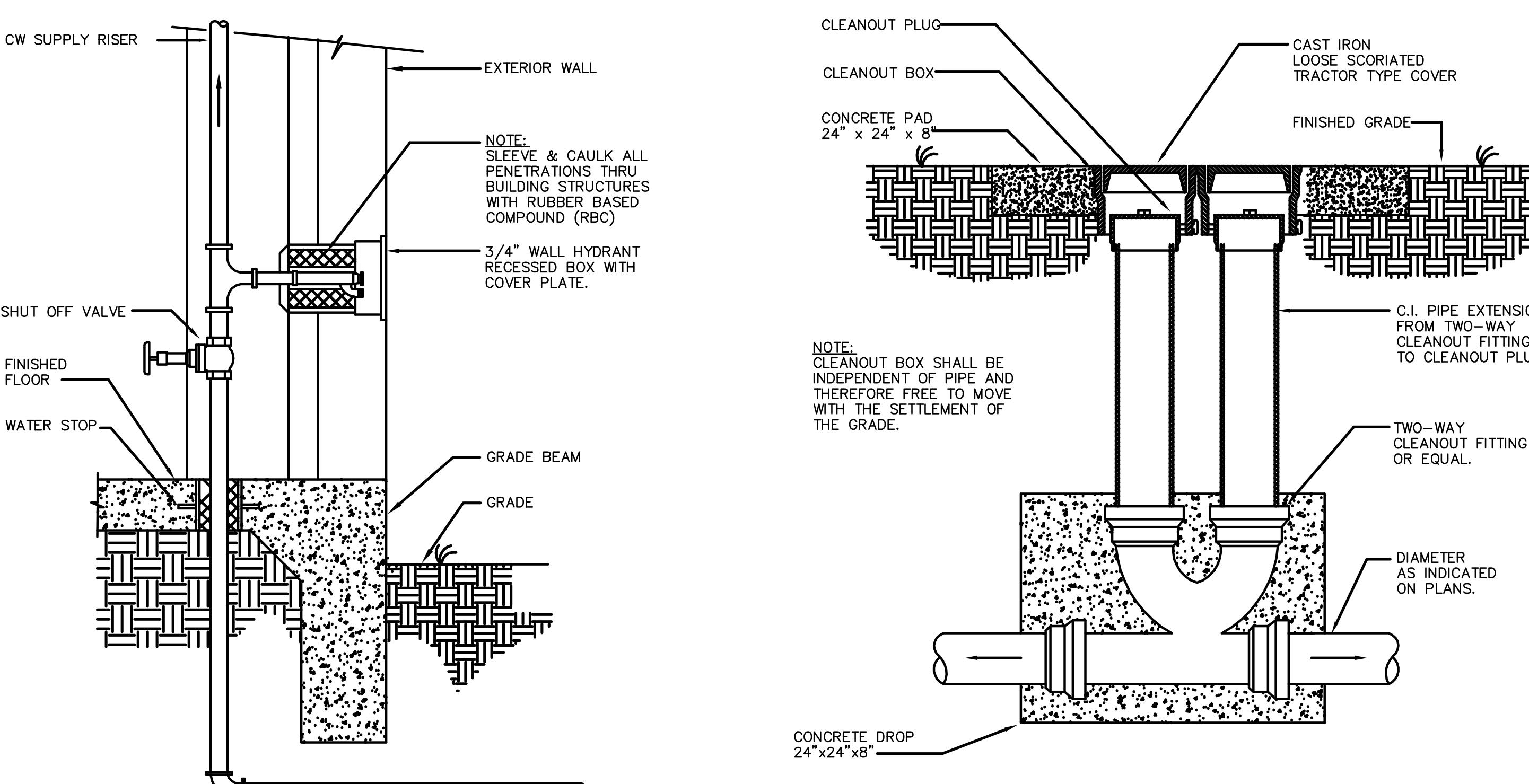
SHEET NUMBER

PLUMBING FIXTURE SCHEDULE						
MARK	ITEM	CW	HW	DRAIN	VENT	REMARKS
P-1	WATER CLOSET	1/2"	--	4"	2"	AMERICAN STANDARD #2898.012 CADET 14 3/4" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP.
P-1A	WATER CLOSET, ADA	1/2"	--	4"	2"	AMERICAN STANDARD #2998.012 CADET 16 1/2" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP. INSTALL IN ACCORDANCE W/ADA REQUIREMENTS
P-2	LAVATORY, OVAL, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0476.028 "AQUALYN" ADA COUNTERTOP LAVATORY; 'ADA' SELF RIMMING WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-2A	LAVATORY, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0355.012 "LUCERNE" WALL HUNG LAVATORY: VITREOUS CHINA WITH INTEGRAL BACKSPLASH WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-3	URINAL	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE.
P-3A	URINAL, ADA	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-4	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	ELKAY #FZSTL8C; WALL MOUNTED, BI-LEVEL BARRIER-FREE, NO LEAD WATER COOLER, STAINLESS STEEL CABINET, STAINLESS STEEL TOP WITH BUFFED SATIN FINISH, FLEXGUARD SAFETY BUBBLER, SELF CLOSING FRONT AND SIDE PUSH BARS COMPLETE WITH APRON FOR UPPER FOUNTAIN. SUPPLY: CHICAGO #1006, 3/8-INCH I.P.S. WITH 3/8-INCH O.D. 12-INCH LONG FLEXIBLE RISER, CHROME PLATED, P-TRAP: MC GUIRE #8902, 1-1/4" x 1-1/2" x 17 GAUGE, CHROME PLATED CAST BRASS ADJUSTABLE SWIVEL P-TRAP CARRIER: WADE #W-400; TOP AND BOTTOM HANGER PLATE CARRIER. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-5	SERVICE SINK	1/2"	1/2"	3"	1 1/2"	STERN WILLIAMS "CORLOW" #SBC-1700, 24" x 24" x 12" CORNER MOP SINK WITH S.S. CAP. T&S #B-0657-RGH FAUCET.
P-6	SINK, ADA	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-1517; SINGLE COMPARTMENT, 18-GAUGE, STAINLESS STEEL, SELF-RIMMING, THREE HOLE PUNCHING, FAUCET: ZURN #Z-824B0, STRAINER: MC GUIRE #1151AWC, SUPPLY MC GUIRE #2165; P-TRAP: MC GUIRE #8912 INSULATION: MC GUIRE "PROWRAP" ANTI-MICROBIAL, SATIN WHITE, MOLDED, SEAMLESS INSULATORS, A.D.A. APPROVED.
P-6A	SINK, ADA	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-3321-3, 18-GAUGE, TYPE 302 SELF RIM, STAINLESS STEEL 3-HOLE PUNCHING, TWO COMPARTMENT SINK WITH CHICAGO #786-EXKCP FAUCET, MC GUIRE #1151WC, OFFSET STRAINER AND MC GUIRE #8912 P-TRAP AND MC GUIRE #2165 SUPPLY. INSULATE HOT AND COLD WATER SUPPLY, OFFSET SINK STRAINER, TAILPIECE AND P-TRAP WITH "PROWRAP" OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH A.D.A. REGULATIONS
P-7	SHOWER	1/2"	1/2"	-	-	SYMONS #1-25-FSRC X: SHOWER SYSTEM CONSISTING OF CHROME PLATED SAFETY MIX PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, WALL/HAND HELD SHOWER WITH 5' METAL HOSE, 2.5 GPM FLOW RESTRICTOR. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-8	WASHER BOX	1/2"	1/2"	2"	1 1/2"	GUY GRAY "ECONO BOX" WASHER BOX
FD	FLOOR DRAIN	-	-	2" - 4"	2"	ZURN #ZN-415 SERIES; CAST IRON DRAIN, INTEGRAL REVERSABLE CLAMPING COLLAR, 6-INCH DIAMETER, SATIN NICKEL BRONZE
FS	FLOOR SINK	-	-	2" - 4"	2"	ZURN #ZN-1910-23; CAST IRON DRAIN SQUARE FLOOR SINK, 8" x 8" x 6" DEEP, WITH A.R.E. INTERIOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, ALUMINUM SEDIMENT BUCKET
WH	WALL HYDRANT	3/4"	-	-	-	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, WALL SUPPORTS, REPLACEABLE SEAT WASHER, 3/4" MALE HOSE CONNECTION, ZURN NO. Z1345
SK-1	HAND SINK	1/2"	1/2"	2"	1 1/2"	KOHLER "KINGSTON" #K-2005, WALL HUNG LAVATORY OR APPROVED EQUAL, WITH CHICAGO FAUCET #797-317 CHROME PLATED WITH WRIST BLADE HANDLES FAUCET, MC GUIRE # 2165-LK CHROME PLATED ANGLE SUPPLY 1/2" IPS X 3/8" OD LOOSE KEY STOP WITH CHROME PLATED ONE PIECE ESCUTCHEON 3/8". INSTALL MILFAB # MC-31 SERIES WALL CARRIER FOR CONCEALED ARM SUPPORT AND TUBRO HANDI-LAV GUARD KIT ON P-TRAP AND BOTH WATER RISERS.
SK-2	THREE COMPARTMENT SINK	3/4"	3/4"	-	-	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR
SK-3	SINK	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-1517; SINGLE COMPARTMENT, 18-GAUGE, STAINLESS STEEL, SELF-RIMMING, THREE HOLE PUNCHING, FAUCET: CHICAGO FAUCET #786-GN2FC. STRAINER: MC GUIRE #1151AWC, SUPPLY MC GUIRE #2165; P-TRAP: MC GUIRE #8912 INSULATION: MC GUIRE "PROWRAP" ANTI-MICROBIAL, SATIN WHITE, MOLDED, SEAMLESS INSULATORS, A.D.A. APPROVED.
	BAPTISTRY					MODEL #110, HEATING AND CIRCULATING SYSTEM, FILL FAUCET, AND DRAIN / OVERFLOW BY: SUPERIOR FIBERGLASS INC. PLUMBING CONTRACTOR TO INSTALL AS PER MANUFACTURER REQUIREMENTS

WATER HEATER SCHEDULE								
MARK	RECOVERY		STORAGE (GALLONS)	LINING	MAXIMUM INPUT		ELECTRICAL	REMARKS
	GPH	RISE (F)			FUEL	CFH	VOLTS/PH/HZ.	KW
EWH-1	27	60	50	GLASS	ELEC	-	120/1/60	4
EWH-2	17	60	30	GLASS	ELEC	-	120/1/60	2.5
								A.O. SMITH DEL-50
								A.O. SMITH DEL-30

TRAP PRIMER SCHEDULE		
MARK	NO. OF DRAINS	DISTRIBUTION UNIT WITH OUTLETS
TP-1	1	--
TP-2	2	2
TP-3	3	3
TP-4	4	4

NOTE:
1.) PRESSURE DROP ACTIVATED.
2.) AIR GAP/VACUUM BREAKER.
3.) MIFAB NO. M-500 SERIES, P.P.P. NO. PR-500, APPROVED EQUAL.
4.) INSTALL AT 48" A.F.F.

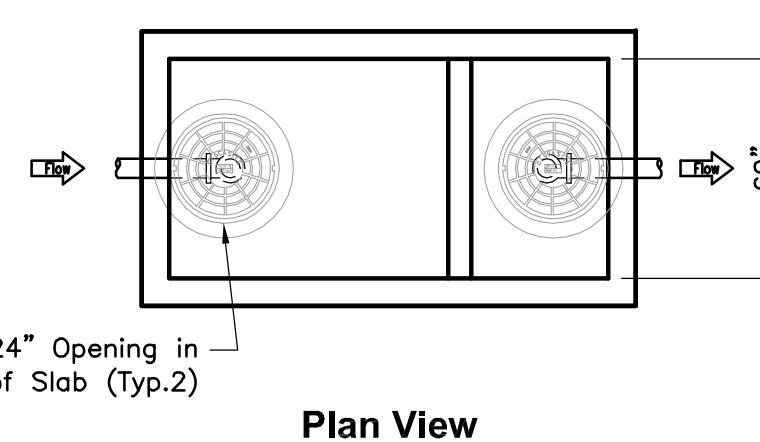


1 COLD WATER ENTRY DETAIL
NOT TO SCALE

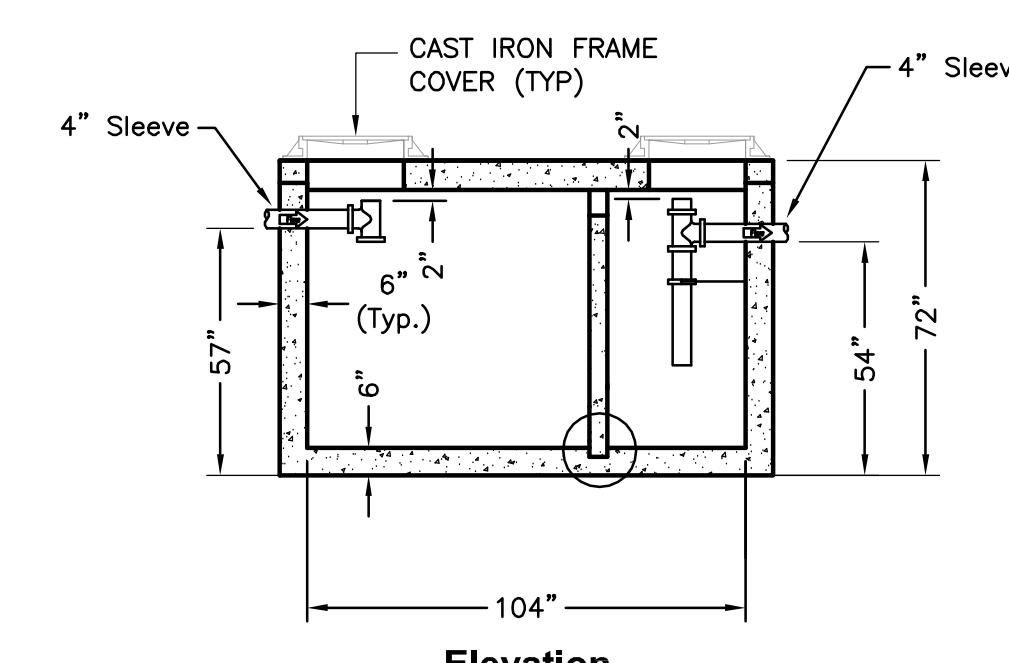
2 YARD CLEANOUT DETAIL TWO-WAY
NOT TO SCALE

GREASE TRAP SCHEDULE						
MARK	SUPPLIED QTY.	INSTALL. G.C. OWN.	ITEM	DESCRIPTION	MANUF. MODEL NO. / REMARKS	UTILITIES
					CW HW DR	
GI-1	1	●	●	GREASE INTERCEPTOR ①	PARK #GT-1000 1000 GALLON CAPACITY	- - 4"

① GREASE INTERCEPTOR SHALL BE INSTALLED AS PER LOCAL AND CITY CODES.



Plan View



Elevation

3 GREASE INTERCEPTOR DETAIL
NOT TO SCALE

REVISIONS:
DATE BY
A ##### (INT'S)

TRUE VISION CHURCH

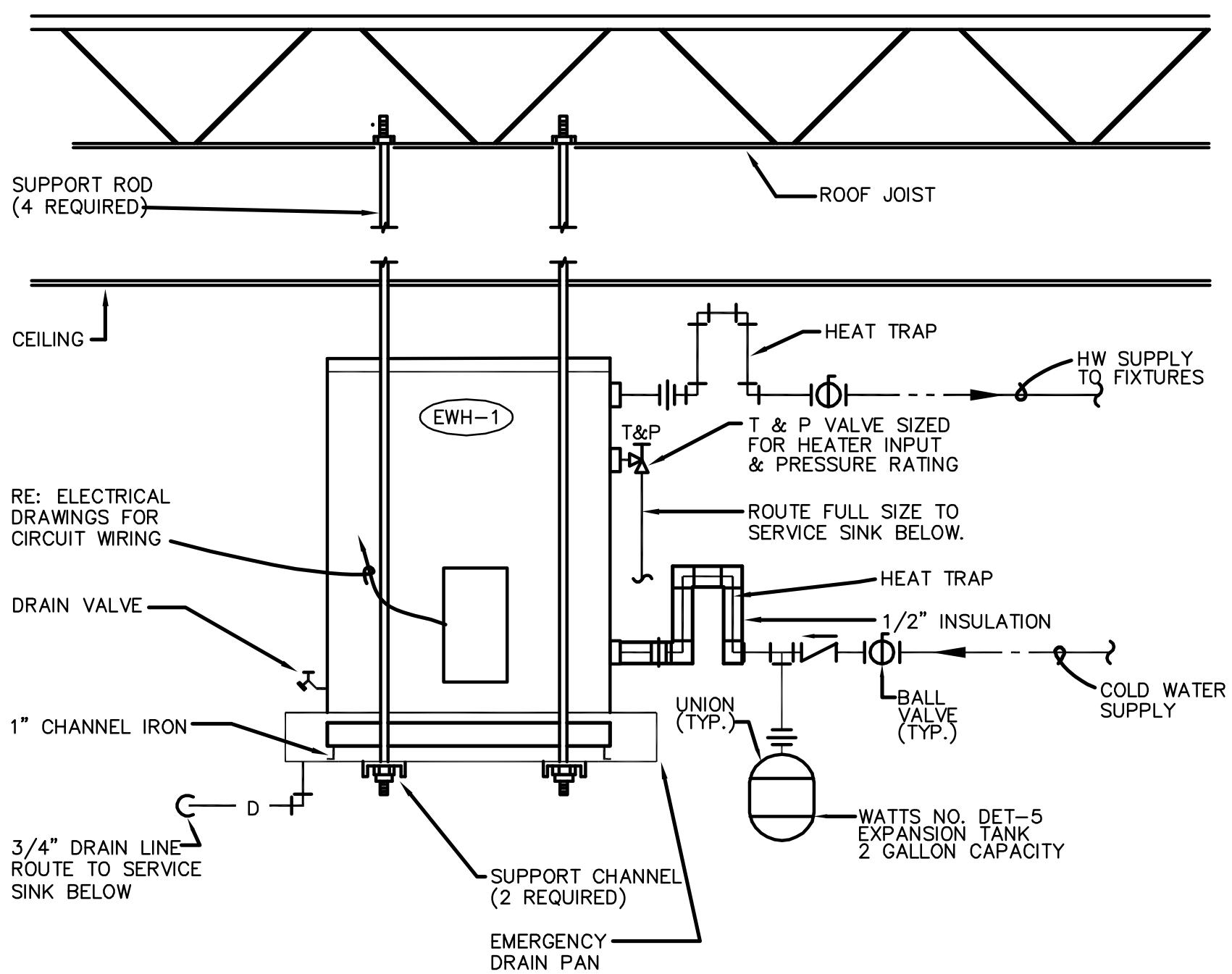
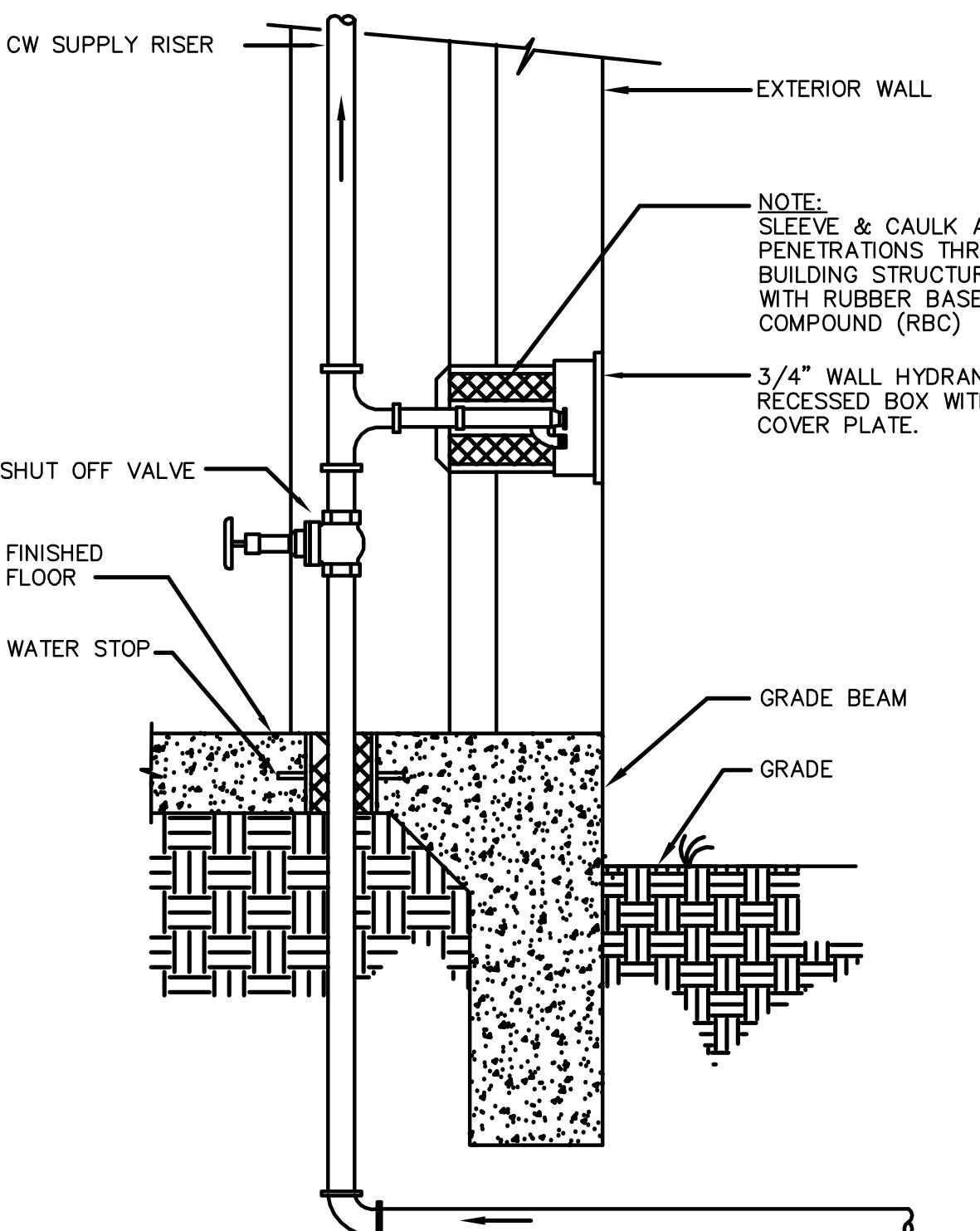
ACKERMAN ROAD

SAN ANTONIO, TX 78219

PLUMBING SCHEDULES AND DETAILS - CHAPEL BUILDING

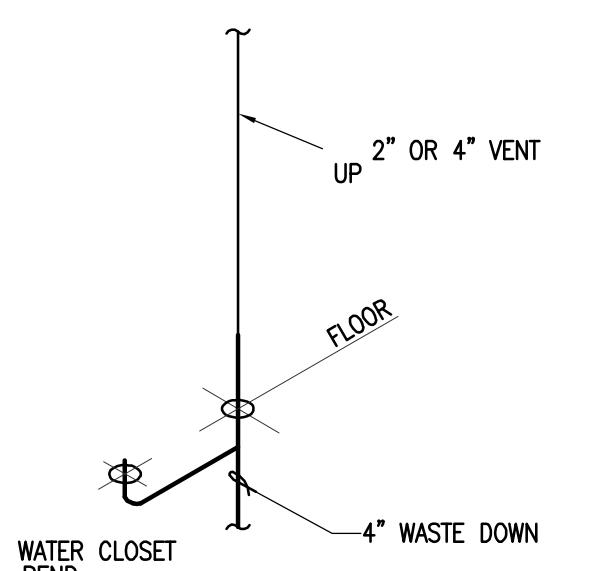
PLUMBING FIXTURE SCHEDULE						
MARK	ITEM	CW	HW	DRAIN	VENT	REMARKS
P-1	WATER CLOSET	1/2"	--	4"	2"	AMERICAN STANDARD #2898.012 CADET 14 3/4" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP.
P-1A	WATER CLOSET, ADA	1/2"	--	4"	2"	AMERICAN STANDARD #2898.012 CADET 16 1/2" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP. INSTALL IN ACCORDANCE W/ADA REQUIREMENTS
P-2	LAVATORY, OVAL, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0476.028 "AQUALYN" ADA COUNTERTOP LAVATORY: 'ADA' SELF RIMMING WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-3	URINAL, ADA	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-4	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	ELKAY #EZSTLBC; WALL MOUNTED, BI-LEVEL BARRIER-FREE, NO LEAD WATER COOLER, STAINLESS STEEL CABINET, STAINLESS STEEL TOP WITH BUFFED SATIN FINISH, FLEXIGUARD SAFETY BUBBLER, SELF CLOSING FRONT AND SIDE PUSH BARS COMPLETE WITH APRON FOR UPPER FOUNTAIN. SUPPLY: CHICAGO #1006; 3/8-INCH I.P.S. WITH 3/8-INCH O.D. 12-INCH LONG FLEXIBLE RISER, CHROME PLATED. P-TRAP: MCQUIRE #8902; 1-1/4"x1-1/2"x17 GAUGE, CHROME PLATED CAST BRASS ADJUSTABLE SWIVEL P-TRAP CARRIER: WADE #W-400; TOP AND BOTTOM HANGER PLATE CARRIER. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-5	SERVICE SINK	1/2"	1/2"	3'	1 1/2"	STERN WILLIAMS "CORLOW" #SBC-1700, 24"x24"x12" CORNER MOP SINK WITH S.S. CAP. T&S #B-0667-RGH FAUCET.
FD	FLOOR DRAIN	-	-	2" - 4"	2"	ZURN #ZN-415 SERIES; CAST IRON DRAIN, INTEGRAL REVERSIBLE CLAMPING COLLAR, 6-INCH DIAMETER, SATIN NICKEL BRONZE
WH	WALL HYDRANT	3/4"	-	-	-	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, WALL SUPPORTS, REPLACEABLE SEAT WASHER, 3/4" MALE HOSE CONNECTION, ZURN NO. 21345

WATER HEATER SCHEDULE									
MARK	RECOVERY		STORAGE (GALLONS)	LINING	MAXIMUM INPUT		ELECTRICAL		REMARKS
	GPH	RISE (F)			FUEL	CFH	VOLTS/PH/HZ.	KW	
EWH-1	17	60	30	GLASS	ELEC	-	120/1/60	2.5	A.O. SMITH DEL-30

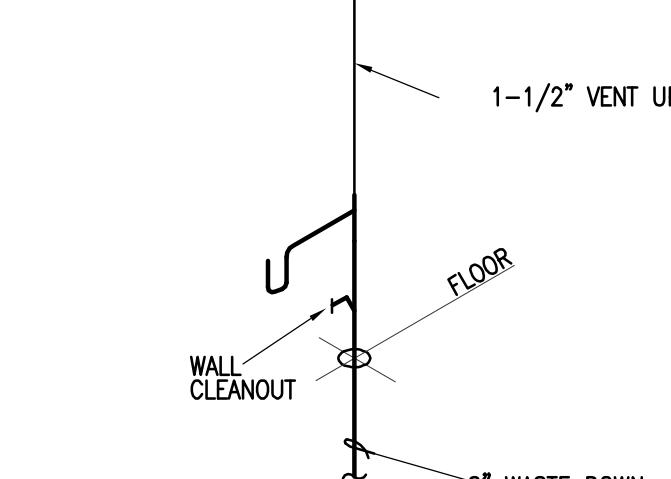


1 COLD WATER ENTRY DETAIL
NOT TO SCALE
SLAB ON GRADE

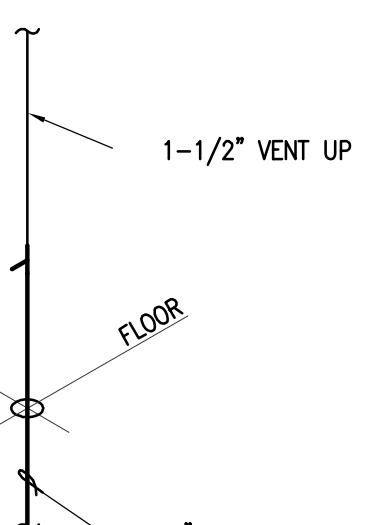
2 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



3 RISER - WATER CLOSET
SCALE:NOT TO SCALE



4 RISER - LAVATORY
SCALE:NOT TO SCALE



5 RISER - URINAL
SCALE:NOT TO SCALE

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SHEET NUMBER

P2.3

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