

(APPLY TO ALL NEW WORK DRAWINGS)

- DEMOLITION NOTES:

(THESE NOTES APPLY TO ALL DEMOLITION DRAWINGS)

- CEILING TILE NOTE:

- ## MECHANICAL NEW SYMBOL SCHEDULE

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- GENERAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- DUCTWORK NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- DUCTWORK SIZE NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

ASBESTOS NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS.)

(THESE ABBREVIATIONS APPLY TO ALL DRAWINGS)



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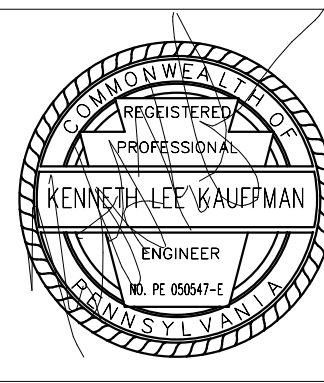


MECHANICAL NOTES AND
SYMBOLS

PLOT SCALE:
12" = 1'-0"

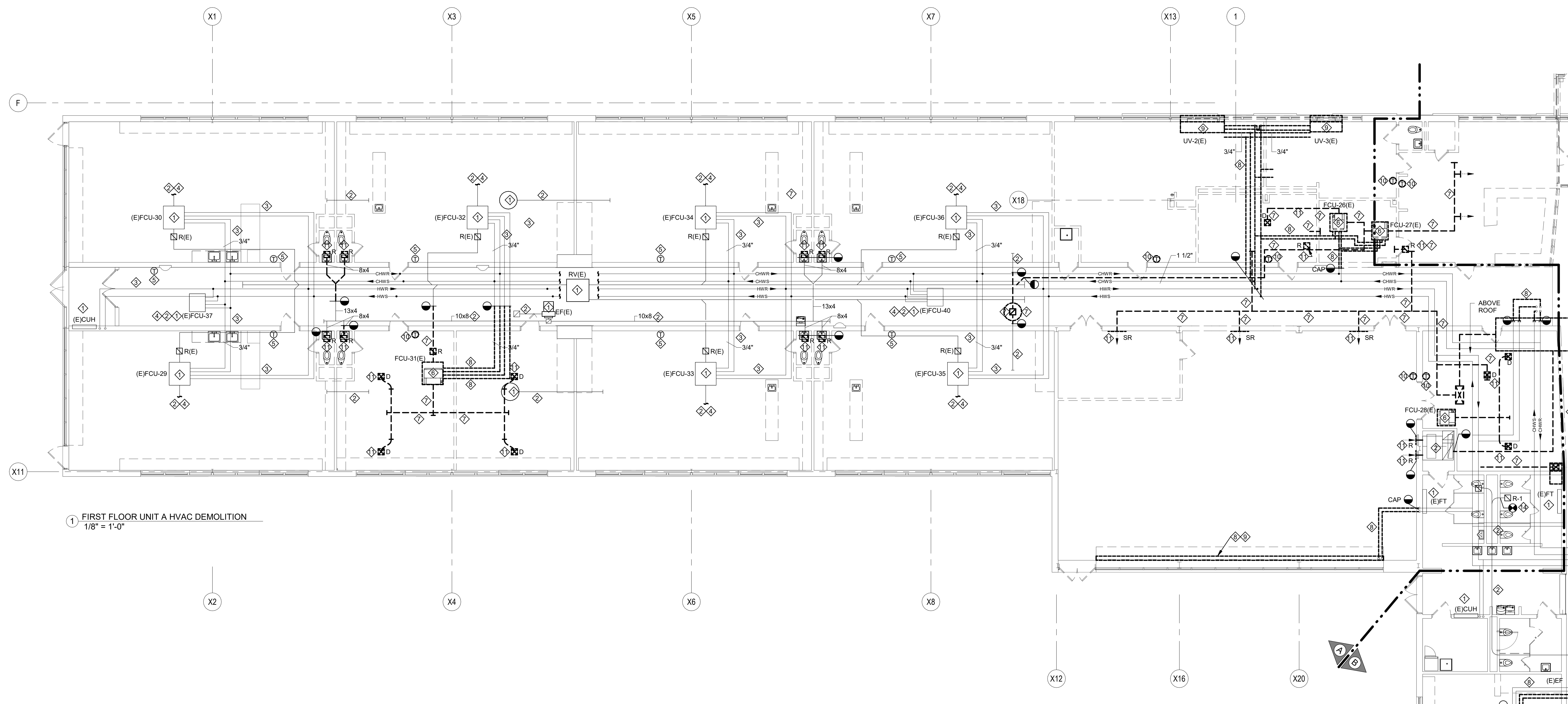
FILENAME:
24066

DATE:
MARCH 10, 2025



PROJECT
3758

M0.1



- DRAWING NOTES:**

 1. EXISTING HVAC EQUIPMENT TO REMAIN IN PLACE AND IN SERVICE.
 2. EXISTING DUCTWORK TO REMAIN IN PLACE AND IN SERVICE.
 3. EXISTING PIPING TO REMAIN IN PLACE AND IN SERVICE.
 4. EXISTING AIR DEVICE TO REMAIN IN PLACE AND IN SERVICE.
 5. EXISTING CONTROL DEVICE TO REMAIN IN PLACE AND IN SERVICE.
 6. REMOVE AND RETAIN FAN COIL UNIT FOR RELOCATION OR TURN OVER TO OWNER.
 7. REMOVE AND DISCARD DUCTWORK AND ASSOCIATED COMPONENTS.
 8. REMOVE AND DISCARD PIPING AND ASSOCIATED COMPONENTS.
 9. REMOVE HVAC EQUIPMENT AND ASSOCIATED COMPONENTS. TURN OVER EQUIPMENT TO OWNER. DISCARD EQUIPMENT INSTALL PRIOR TO 2020.
 10. REMOVE CONTROL DEVICE AND ASSOCIATED COMPONENTS. WHERE REQUIRED PATCH OPENING TO MATCH EXISTING. TURN OVER JCI CONTROL DEVICES TO OWNER.
 11. REMOVE AND DISCARD AIR DEVICE AND ASSOCIATED COMPONENTS.

1. EXISTING HVAC EQUIPMENT TO REMAIN IN PLACE AND IN SERVICE.
2. EXISTING DUCTWORK TO REMAIN IN PLACE AND IN SERVICE.
3. EXISTING PIPING TO REMAIN IN PLACE AND IN SERVICE.
4. EXISTING AIR DEVICE TO REMAIN IN PLACE AND IN SERVICE.
5. EXISTING CONTROL DEVICE TO REMAIN IN PLACE AND IN SERVICE.

6. REMOVE AND RETAIN FAN COIL UNIT FOR RELOCATION OR TURN OVER TO OWNER.
7. REMOVE AND DISCARD DUCTWORK AND ASSOCIATED COMPONENTS.
8. REMOVE AND DISCARD PIPING AND ASSOCIATED COMPONENTS.
9. REMOVE HVAC EQUIPMENT AND ASSOCIATED COMPONENTS. TURN OVER EQUIPMENT TO OWNER. DISCARD EQUIPMENT INSTALL PRIOR TO 2020.

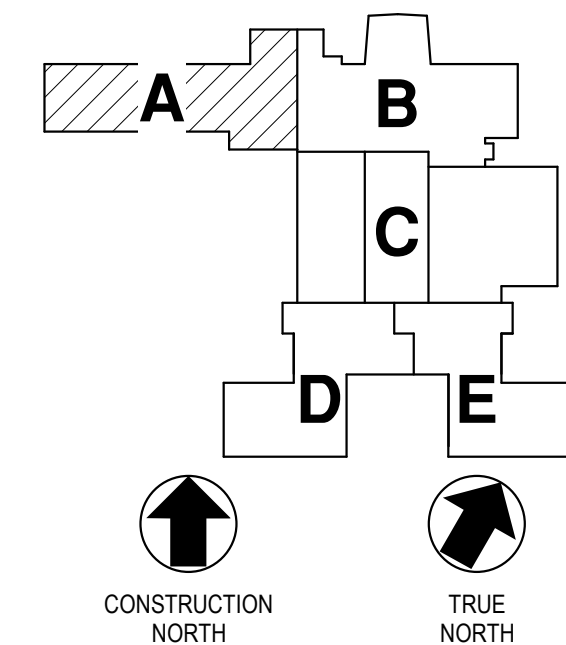
10. REMOVE CONTROL DEVICE AND ASSOCIATED COMPONENTS. WHERE REQUIRED PATCH OPENING TO MATCH EXISTING. TURN OVER JCI CO. DEVICES TO OWNER.
11. REMOVE AND DISCARD AIR DEVICE AND ASSOCIATED COMPONENTS.



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KEY PLAN



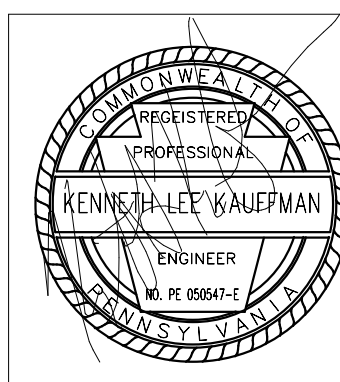
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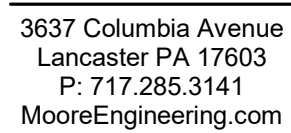


FIRST FLOOR UNIT A
DEMOLITION

PLOT SCALE:	1/8" = 1'-0"
FILENAME:	24066
DATE:	MAR 01 2006

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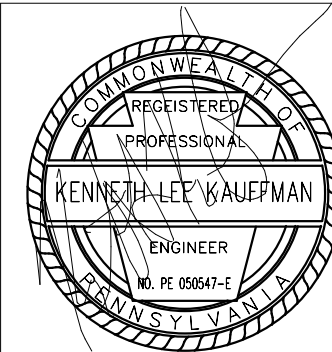
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FIRST FLOOR UNIT B HVAC
DEMOLITION

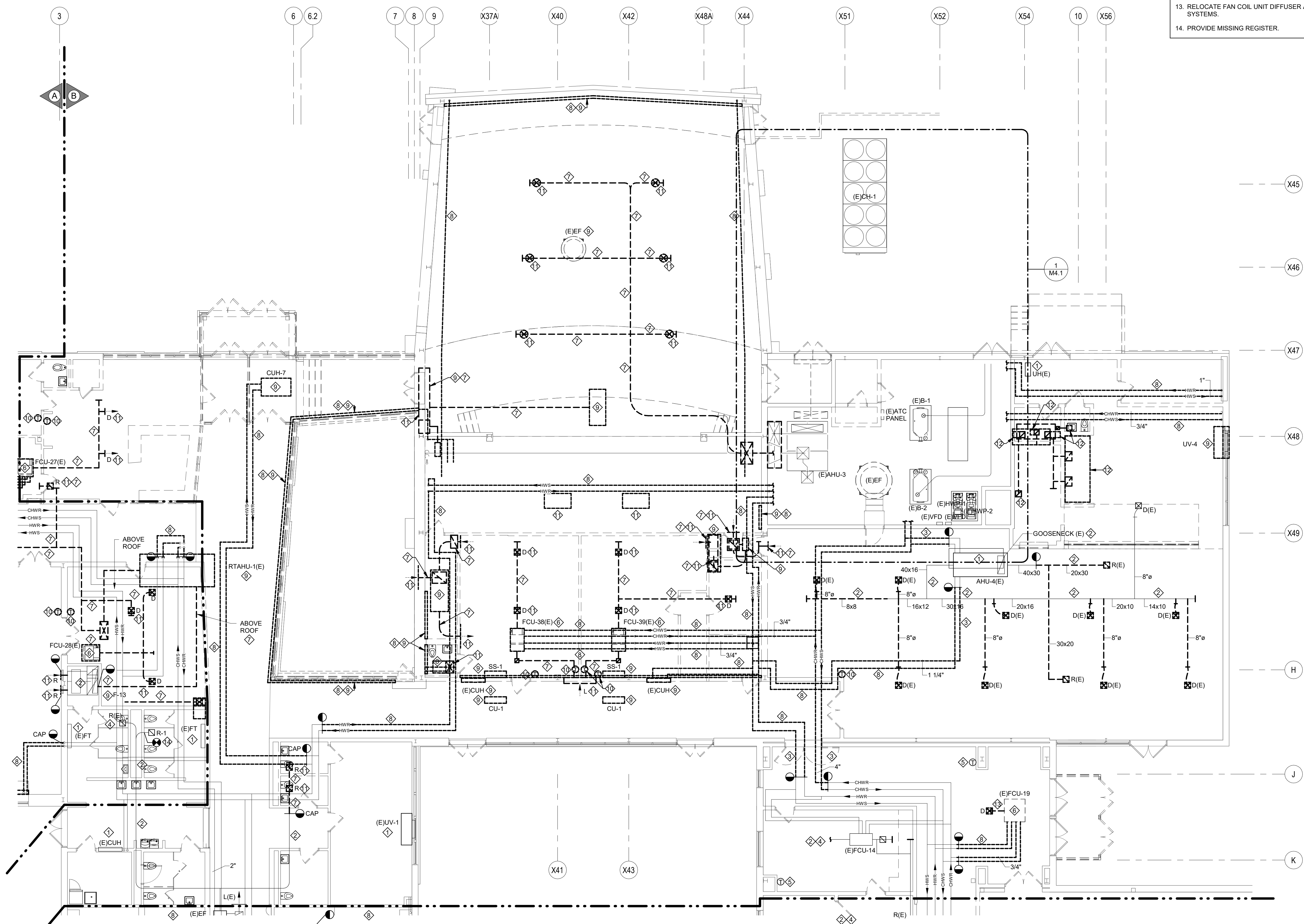
PLOT SCALE:
1/8" = 1'-0"

FILENAME

DATE: MARCH 10, 2025

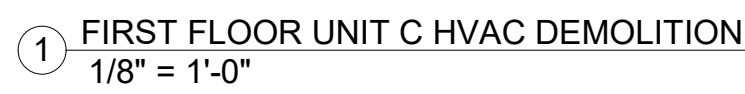
PROJECT
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M1.2



1 FIRST FLOOR UNIT B HVAC DEMOLITION
1/8" = 1'-0"

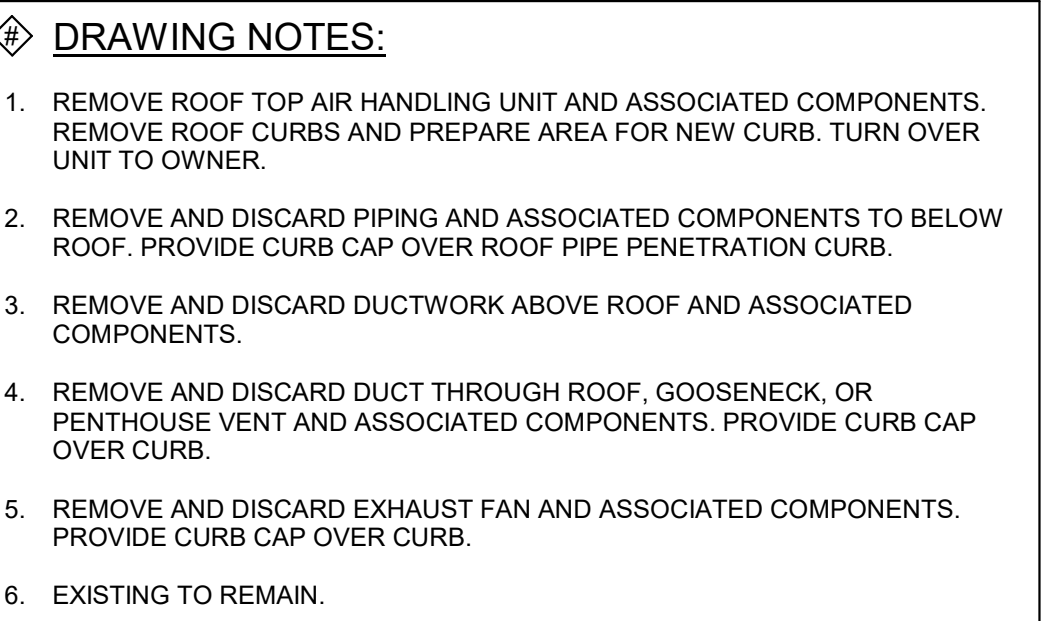
- ### **DRAWING NOTES:**
1. EXISTING HVAC EQUIPMENT TO REMAIN IN PLACE AND IN SERVICE.
 2. EXISTING DUCTWORK TO REMAIN IN PLACE AND IN SERVICE.
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 11. REMOVE AND DISCARD AIR DEVICE AND ASSOCIATED COMPONENTS.
 12. REMOVE AND DISCARD EXHAUST FANS, ROOF VENTILATOR, DUCTWORK, REGISTERS, HOODS, AND ASSOCIATED COMPONENTS.
 13. RELOCATE FAN COIL UNIT DIFFUSER AND DUCTWORK AND PIPING SYSTEMS.
 14. PROVIDE MISSING REGISTER.



- M1.3



- M1.4



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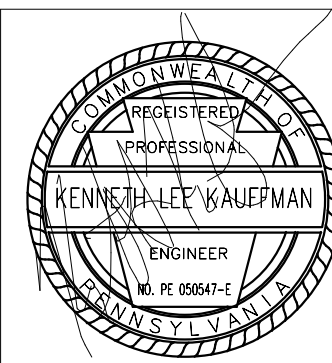
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ROOF HVAC DEMOLITION

PLOT SCALE:
1/16" = 1'-0"

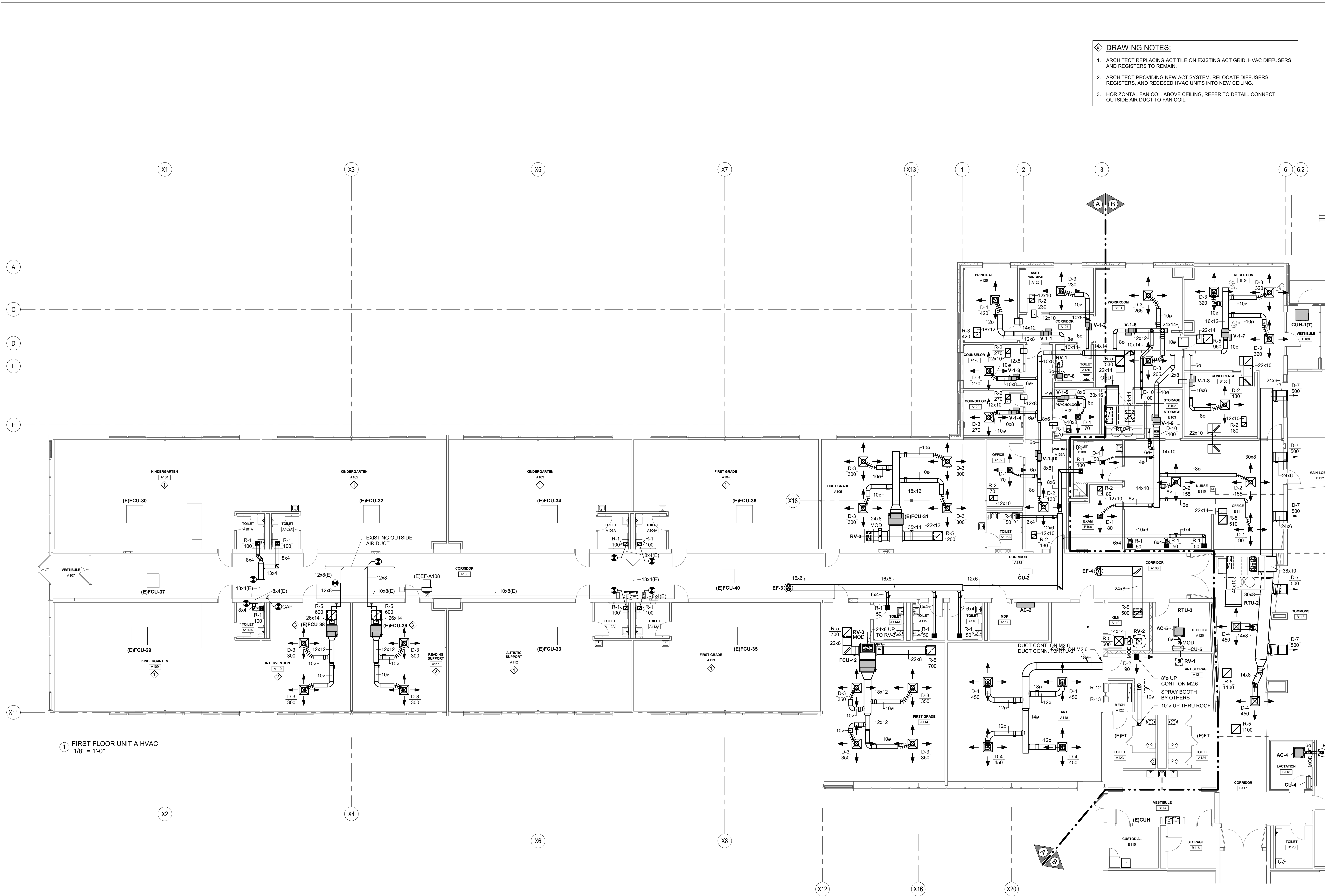
FILENAME

DATE: _____

MARCH 10, 2025

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M1.5



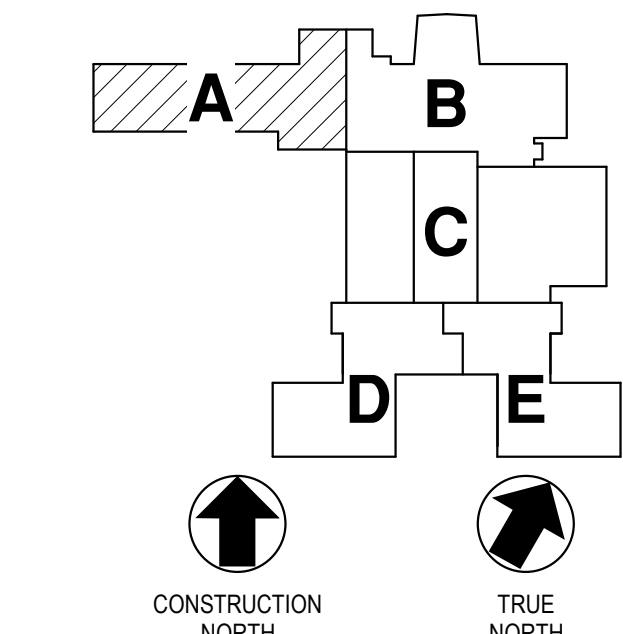
- DRAWING NOTES:**
1. ARCHITECT REPLACING ACT TILE ON EXISTING ACT GRID. HVAC DIFFUSERS, REGISTERS, AND RECESSED HVAC UNITS INTO NEW CEILING.
 2. ARCHITECT PROVIDING NEW ACT SYSTEM. RELOCATE DIFFUSERS, REGISTERS, AND RECESSED HVAC UNITS INTO NEW CEILING.
 3. HORIZONTAL FAN COIL ABOVE CEILING, REFER TO DETAIL. CONNECT OUTSIDE AIR DUCT TO FAN COIL.



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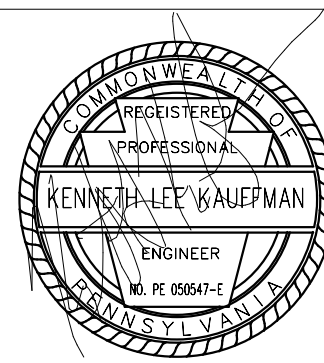
NO.	DATE	BY	NAME	DESCRIPTION OF CHANGES

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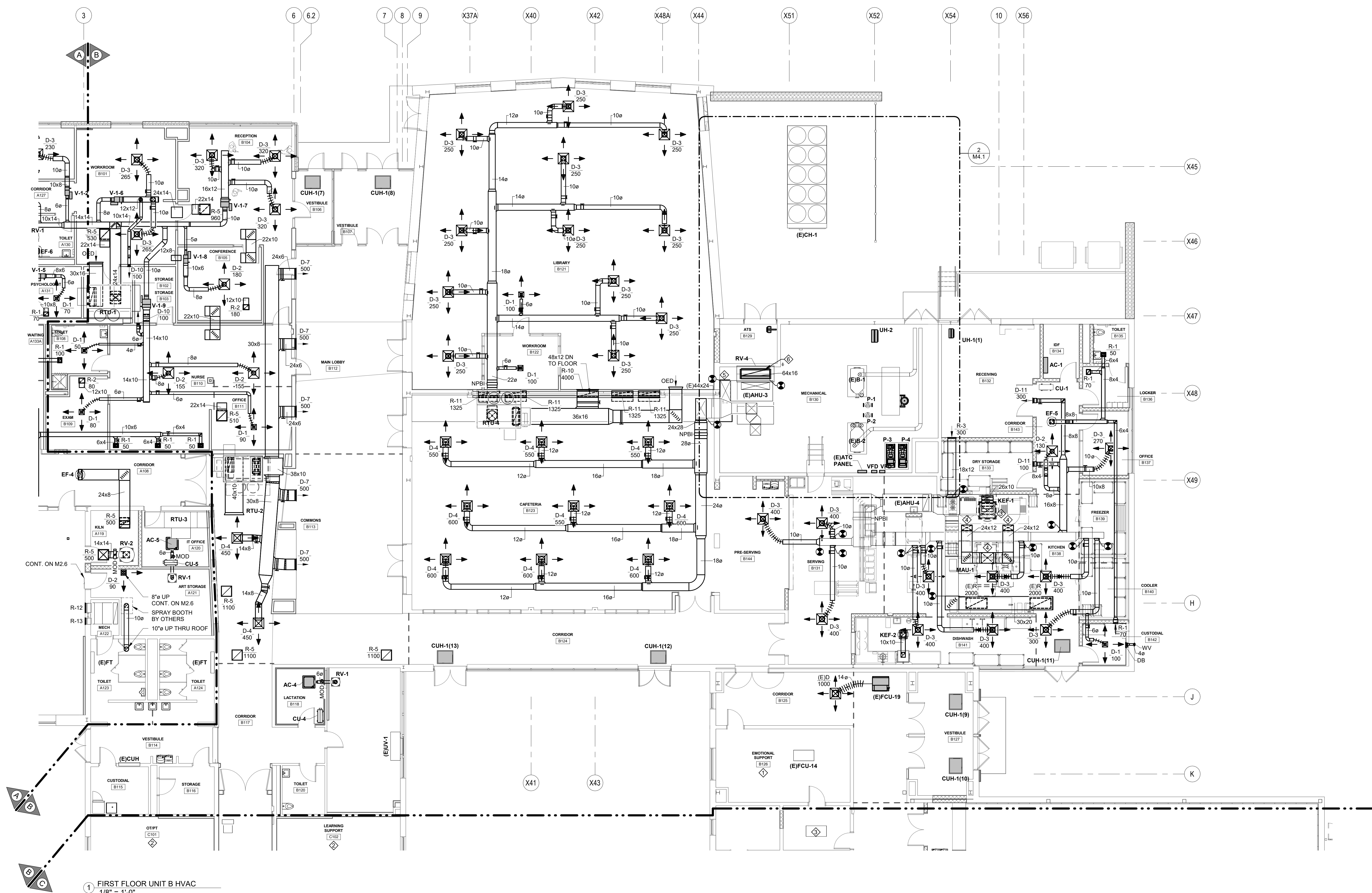
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FIRST FLOOR UNIT A HVAC
PLOT SCALE:
1/8" = 1'-0"
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758

M2.1



- DRAWING NOTES:**

 1. ARCHITECT REPLACING AC TILE ON EXISTING AC GRID. HVAC DIFFUSERS AND REGISTERS TO REMAIN.
 2. ARCHITECT PROVIDING NEW ACT SYSTEM. RELOCATE DIFFUSERS, REGISTERS, AND RECESSED HVAC UNITS INTO NEW CEILING.
 3. 26X10 DN TO HOOD EXHAUST CONNECTION. 26X18 UP TO KEF-1.
 4. 24X12 DN TO HOOD SUPPLY AIR CONNECTION. 2 PLACES. 28X14 UP TO MAU-1.
 5. PROVIDE NEW PLENUM RETURN BOX/DUCT OVER EXISTING TUNNEL EQUAL TO EXISTING SIZE. CONNECT AHU-3 RETURN DUCT TO NEW PLENUM BOX.
 6. 64X16 OUTSIDE AIR DUCT UP FROM (E)AHU-3 TO RV-4 ON ROOF.

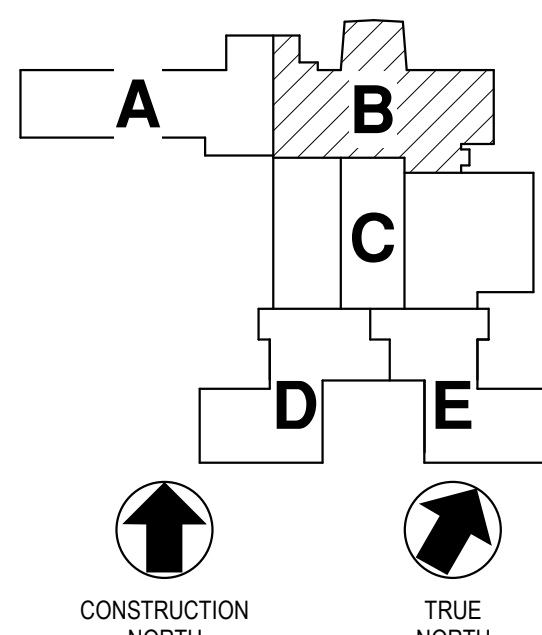
1. ARCHITECT REPLACING ACT TILE ON EXISTING ACT GRID. HVAC DIFFUSERS AND REGISTERS TO REMAIN.
2. ARCHITECT PROVIDING NEW ACT SYSTEM. RELOCATE DIFFUSERS, REGISTERS, AND RECESSED HVAC UNITS INTO NEW CEILING.
3. 26X10 DN TO HOOD EXHAUST CONNECTION. 26X18 UP TO KEF-1.
4. 24X12 DN TO HOOD SUPPLY AIR CONNECTION. 2 PLACES. 28X14 UP TO MAU-1.
5. PROVIDE NEW PLENUM RETURN BOX/DUCT OVER EXISTING TUNNEL EQUAL TO EXISTING SIZE. CONNECT AHU-3 RETURN DUCT TO NEW PLENUM BOX.
6. 64X16 OUTSIDE AIR DUCT UP FROM (E)AHU-3 TO RV4 ON ROOF.



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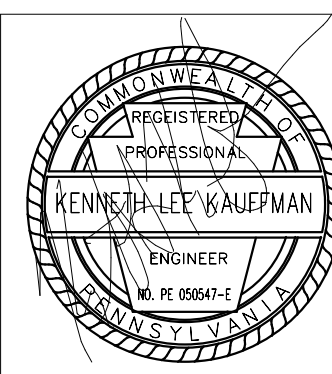
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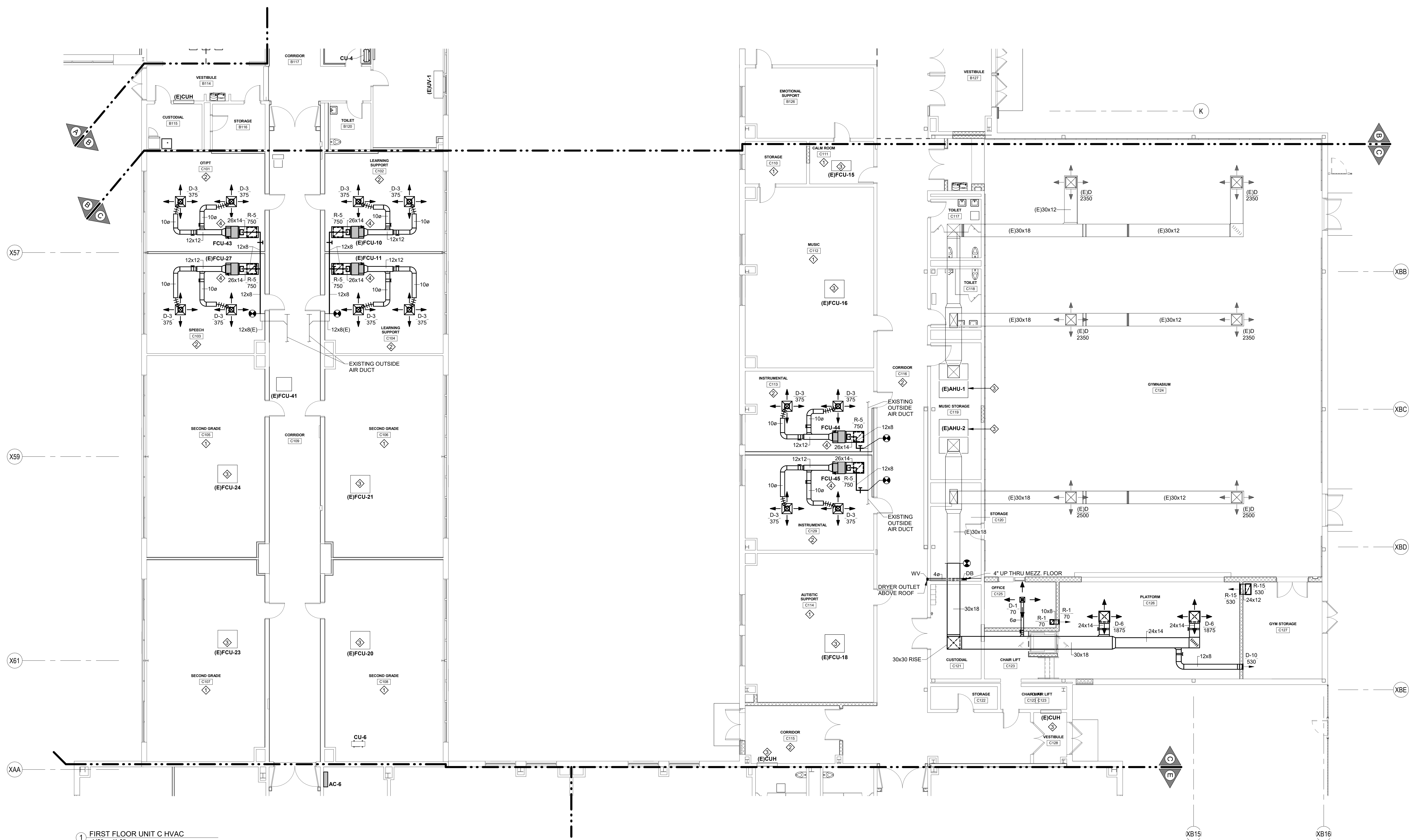
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FIRST FLOOR UNIT B HVAC
PLOT SCALE: 1/8" = 1'-0"
FILENAME: 24066
DATE: MARCH 10, 2025

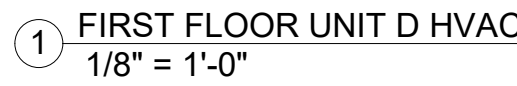
PROJECT
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M2.2

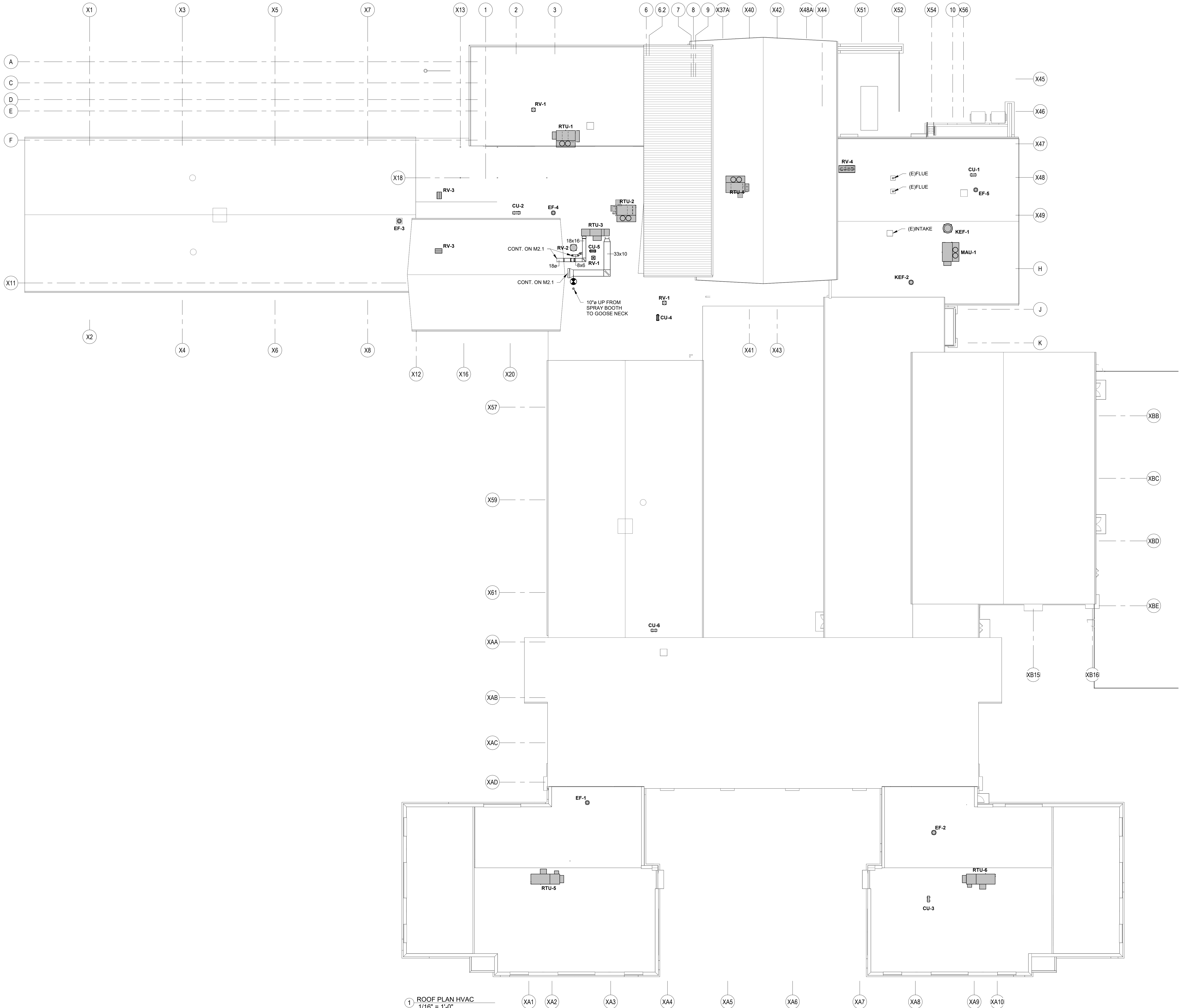


- DRAWING NOTES:**

 1. ARCHITECT REPLACING ACT TILE ON EXISTING ACT GRID. HVAC DIFFUSERS AND REGISTERS TO REMAIN.
 2. ARCHITECT PROVIDING NEW ACT SYSTEM. RELOCATE DIFFUSERS, REGISTERS, AND RECESSED HVAC UNITS INTO NEW CEILING.
 3. EXISTING HVAC SYSTEM TO REMAIN.
 4. HORIZONTAL FAN COIL ABOVE CEILING. REFER TO DETAIL. CONNECT OUTSIDE AIR DUCT TO FAN COIL.



- PROJECT
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M2.4



1 ROOF PLAN HVAC
1/16" = 1'-0"



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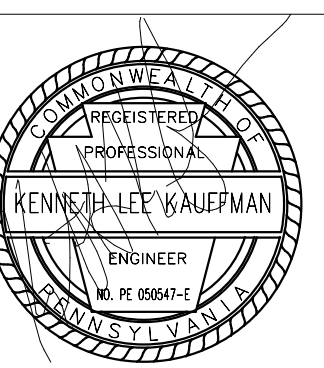
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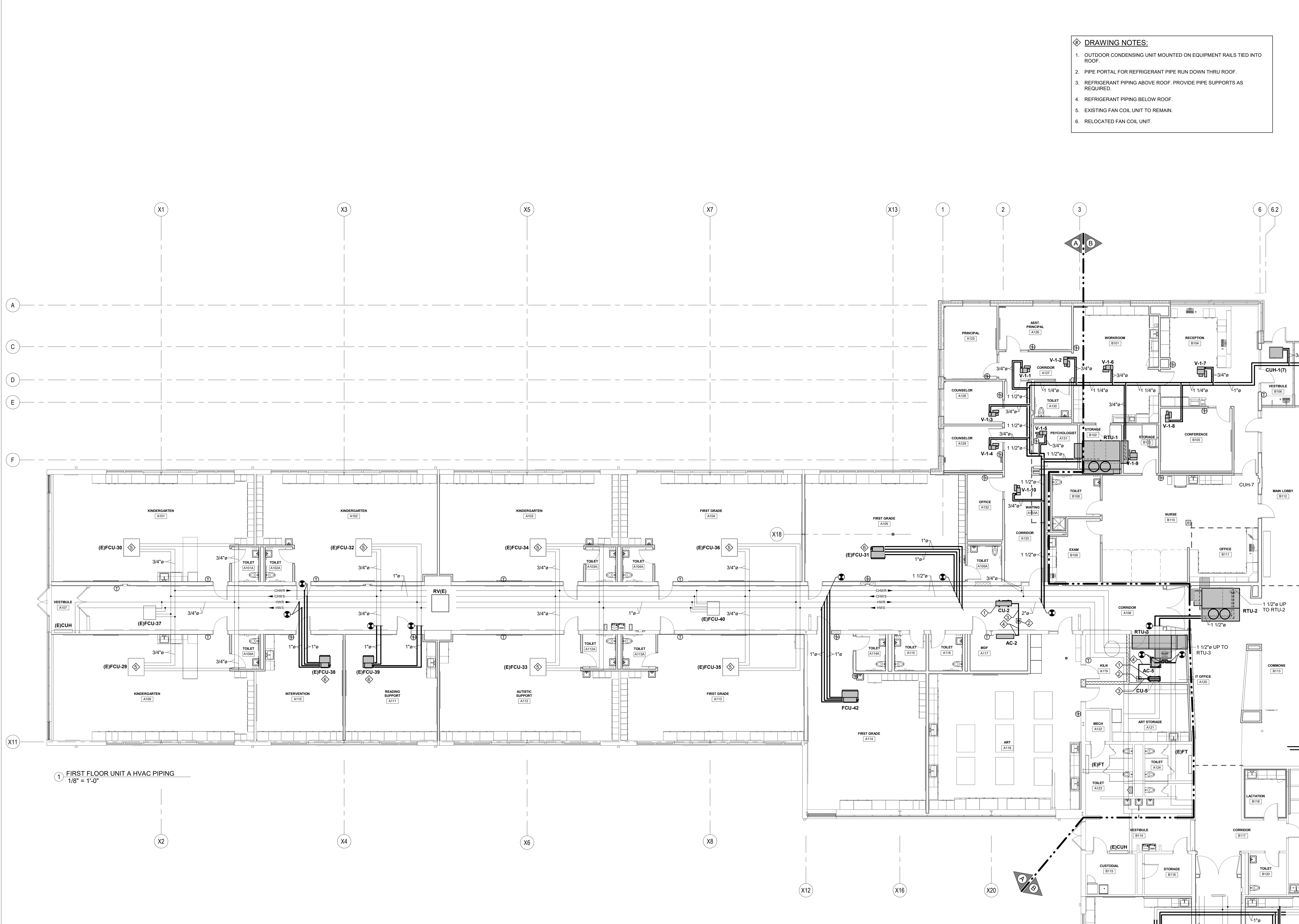


ROOF HVAC

PLOT SCALE:
1/16" = 1'-0"
FILENAME:
240066
DATE:
MARCH 10, 2025

PROJECT
3758

M2.6



- DRAWING NOTES:**
1. OUTDOOR CONDENSING UNIT MOUNTED ON EQUIPMENT RAILS TIED INTO ROOF.
 2. PIPE PORTAL FOR REFRIGERANT PIPE RUN DOWN THRU ROOF.
 3. REFRIGERANT PIPING ABOVE ROOF. PROVIDE PIPE SUPPORTS AS REQUIRED.
 4. REFRIGERANT PIPING BELOW ROOF.
 5. EXISTING FAN COIL UNIT TO REMAIN.
 6. RELOCATED FAN COIL UNIT.

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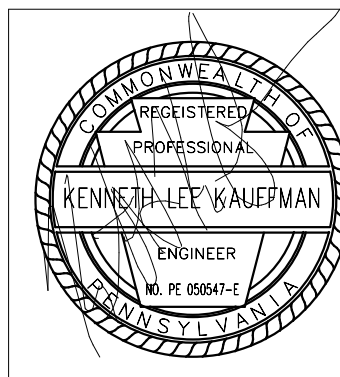
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FIRST FLOOR UNIT A HVAC
PIPING

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

FILENAME:
240066

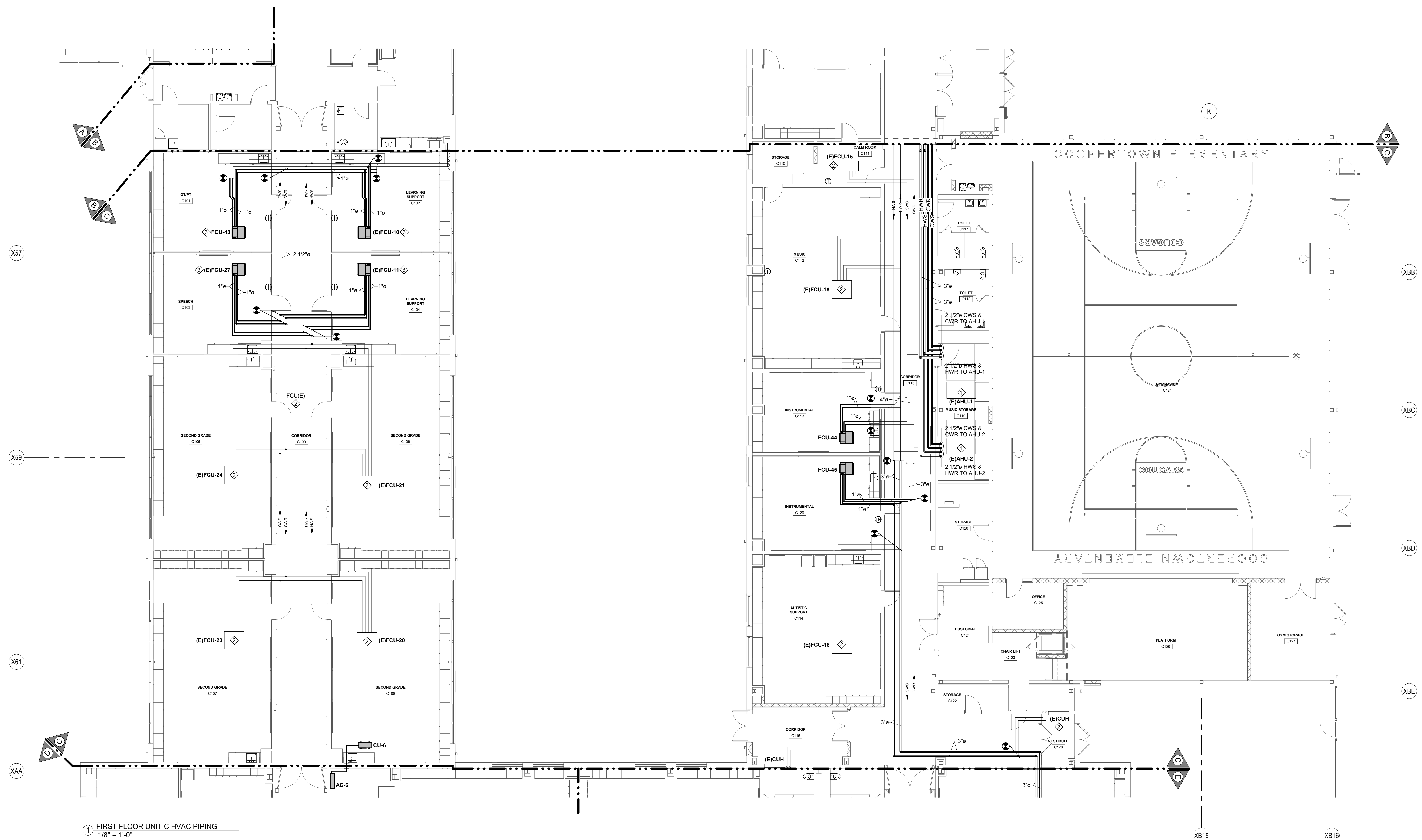
DATE:
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M3.1



- ### M3.2



- DRAWING NOTES:**

 1. EXISTING AIR HANDLER TO REMAIN. EXISTING COIL PIPING AND CONTROLS TO REMAIN. RECONNECT PIPING TO NEW PIPING.
 2. EXISTING FAN COIL UNIT TO REMAIN.
 3. RELOCATED FAN COIL UNIT.

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KEY PLAN

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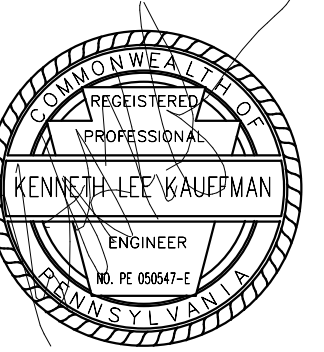
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M3.3



CR

FIRST FLOOR UNIT C HVAC
PIPING

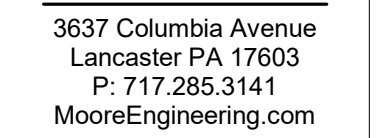
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FILENAME:
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DATE:
MARC

MARCH 10, 2025



XA6

- M3.4



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TOWSON, MARYLAND

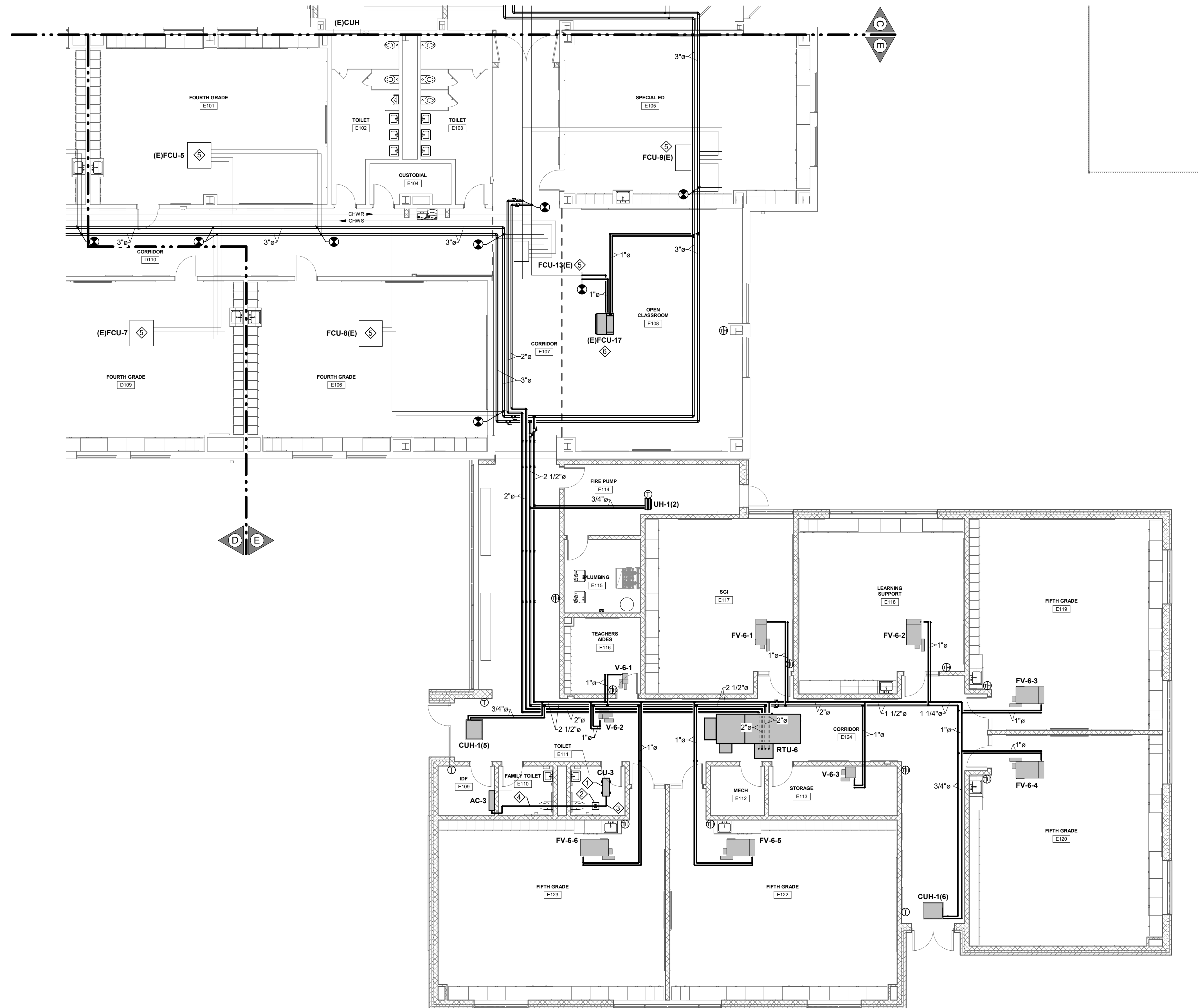
CHARLOTTESVILLE, VIRGINIA
WHITE SULPHUR SPRINGS, WEST VIRGINIA

ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010



PLOT SCALE:	1/8" = 1'-0"
FILENAME:	24066
DATE:	MARCH 10, 2025

PROJECT
3758
M3.5



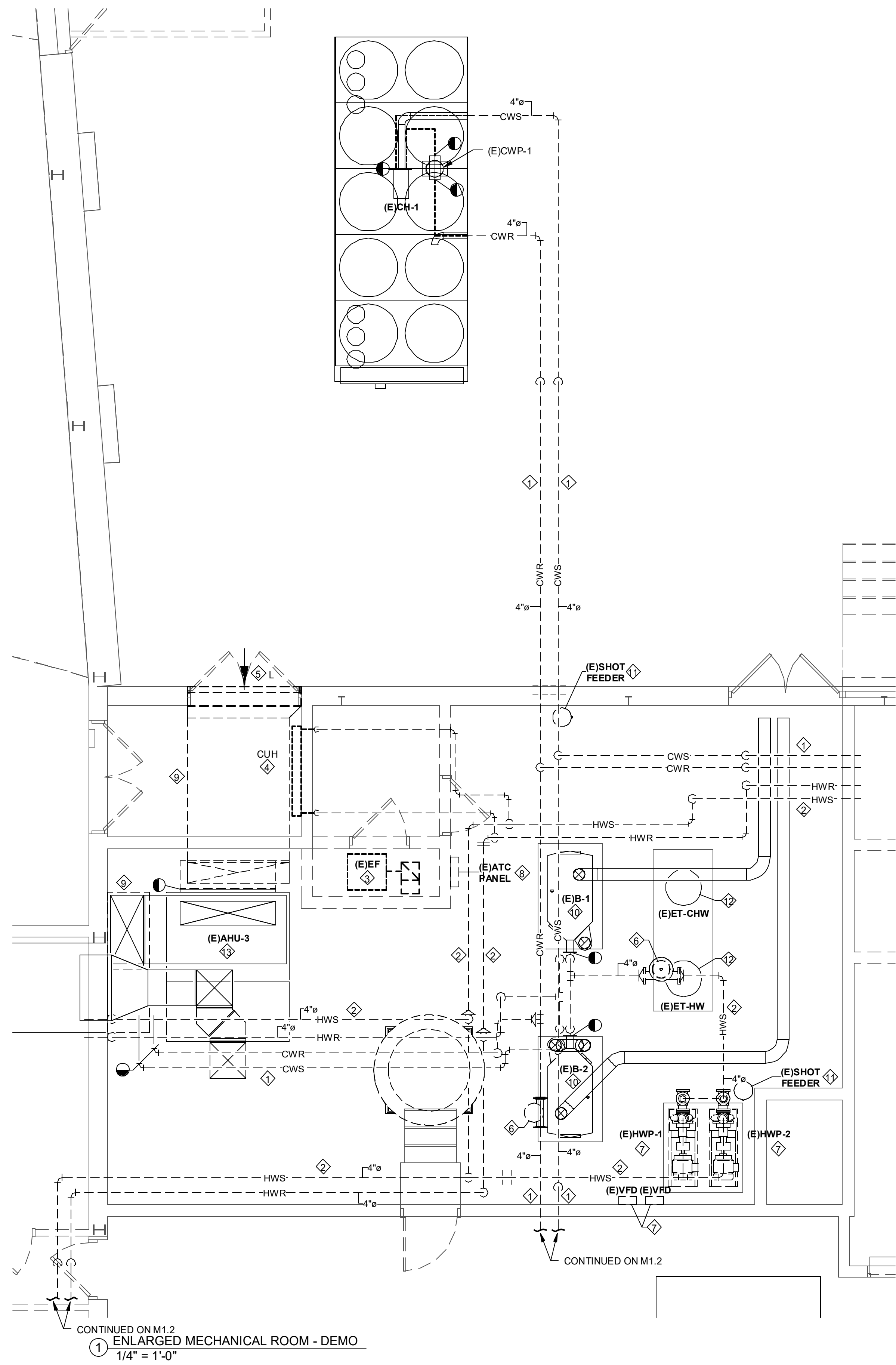
① FIRST FLOOR UNIT E HVAC PIPING
1/8" = 1'-0"

XA8

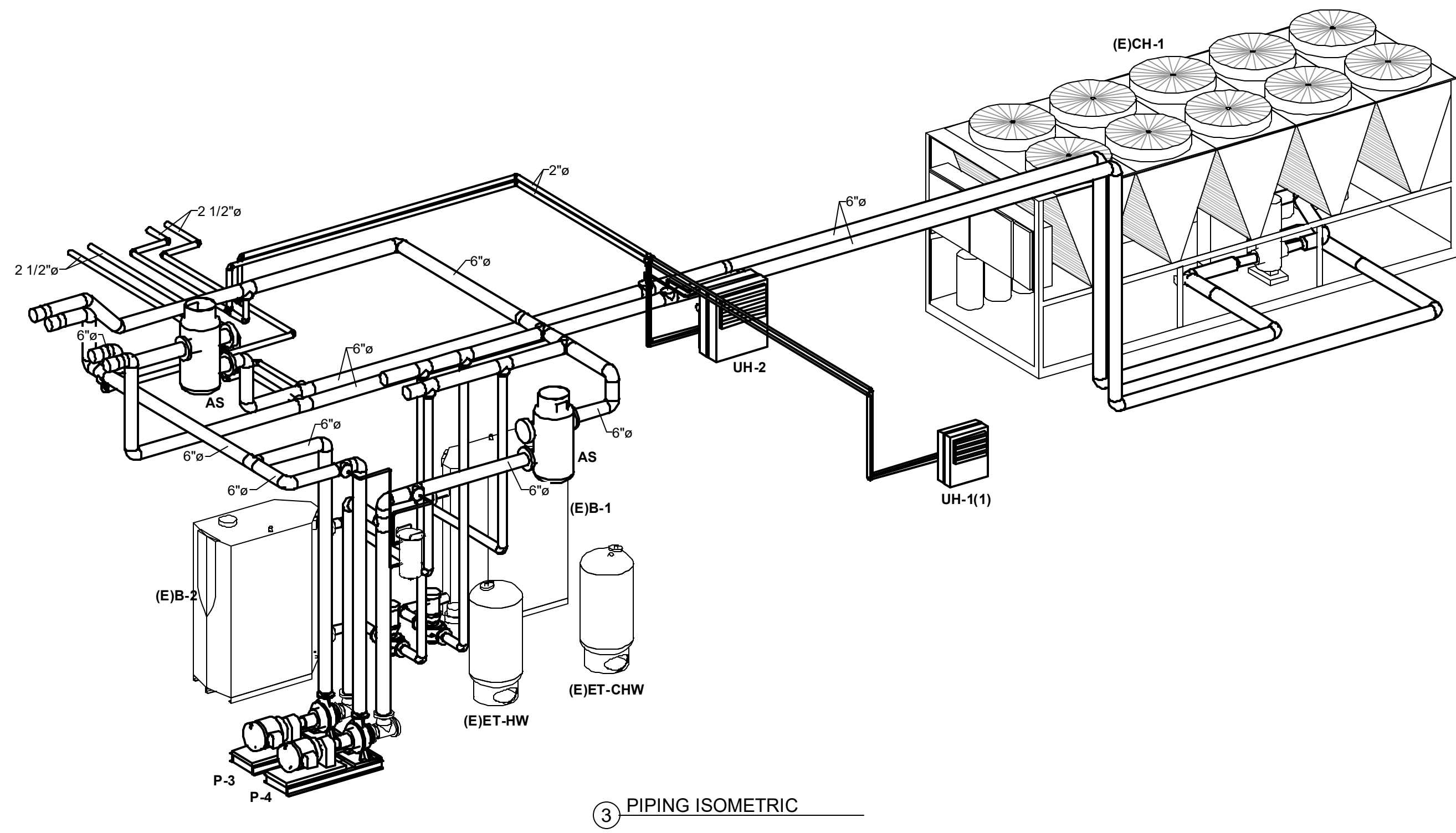
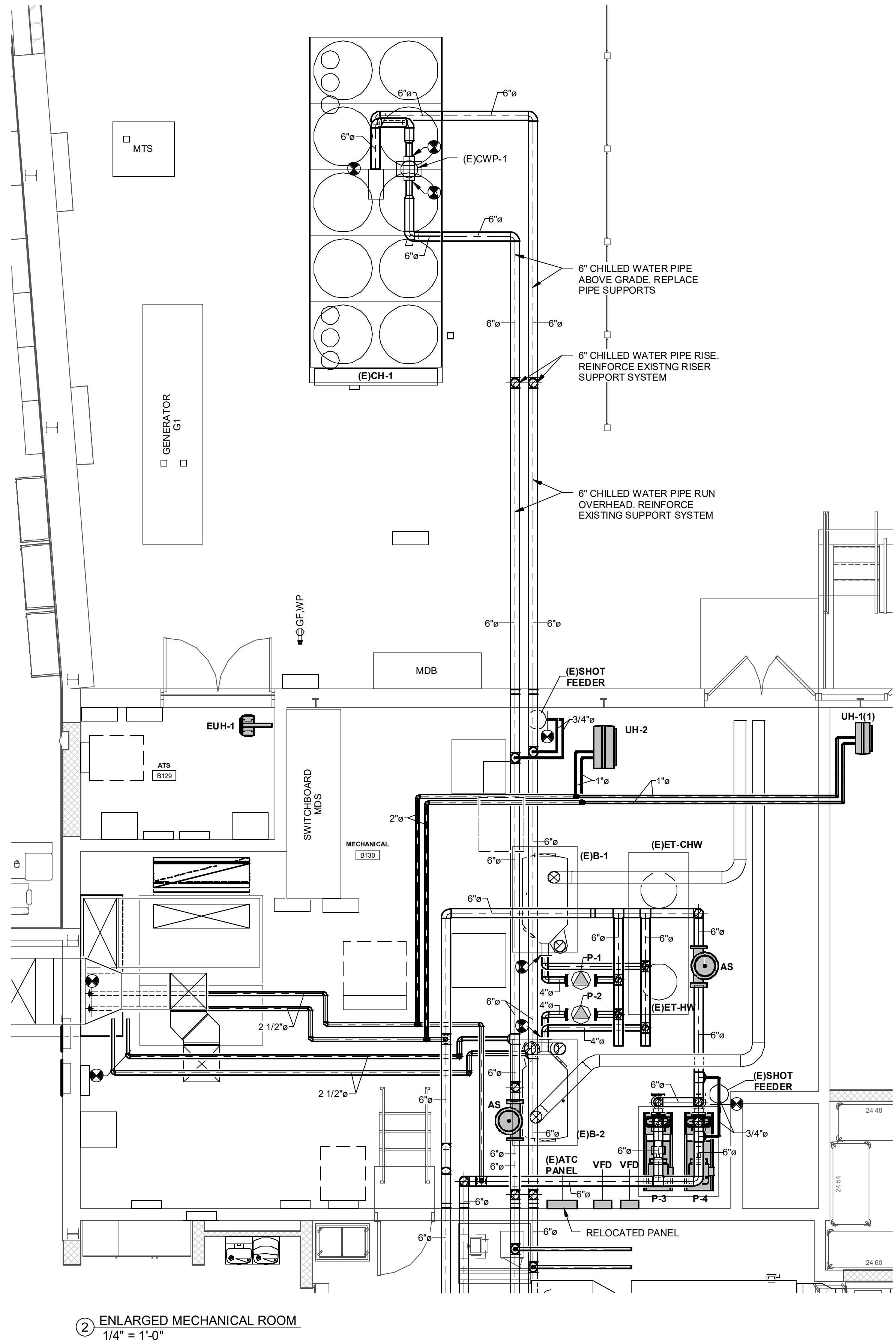
XA9

XA10

1. OUTDOOR CONDENSING UNIT MOUNTED ON EQUIPMENT RAILS TIED INTO ROOF.
2. PIPE PORTAL FOR REFRIGERANT PIPE RUN DOWN THRU ROOF.
3. REFRIGERANT PIPING ABOVE ROOF. PROVIDE PIPE SUPPORTS AS REQUIRED.
4. REFRIGERANT PIPING BELOW ROOF.
5. EXISTING FAN COIL UNIT TO REMAIN.
6. RELOCATED FAN COIL UNIT.



- DEMOLITION DRAWING NOTES:**
1. REMOVE AND DISCARD CHILLED WATER PIPING AND ASSOCIATED COMPONENTS.
 2. REMOVE AND DISCARD HOT WATER PIPING AND ASSOCIATED COMPONENTS.
 3. REMOVE AND DISCARD EXHAUST FAN, DUCTWORK, CONTROLS, AND ASSOCIATED COMPONENTS.
 4. REMOVE AND DISCARD CABINET UNIT HEATER AND ASSOCIATED COMPONENTS.
 5. REMOVE AND DISCARD LOUVER AND ASSOCIATED COMPONENTS.
 6. REMOVE AND DISCARD AIR SEPARATOR AND ASSOCIATED COMPONENTS.
 7. REMOVE HOT WATER PUMPS, VFD'S, AND ASSOCIATED COMPONENTS. TURN OVER TO OWNER.
 8. RELOCATE ATC PANEL.
 9. REMOVE AND DISCARD DUCTWORK AND ASSOCIATED COMPONENTS.
 10. EXISTING BOILERS, INTAKE VENT, FLUE VENT, AND CONTROL COMPONENTS TO REMAIN.
 11. EXISTING SHOT FEEDER TO REMAIN. REMOVE ASSOCIATED PIPING. RECONNECT TO NEW PIPING.
 12. EXISTING EXPANSION TANKS TO REMAIN. REMOVE ASSOCIATED PIPING. RECONNECT TO NEW PIPING.
 13. EXISTING AIR HANDLER TO REMAIN. EXISTING COIL PIPING AND CONTROLS TO REMAIN. RECONNECT TO NEW PIPING.



3637 Columbia Avenue
Lancaster, PA 17603
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REVISIONS

NO.	DATE	NAME	DESCRIPTION OF CHANGES

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
401 EAST WINDING HILL ROAD
MECHANICSBURG, PA 17055
717-458-0272

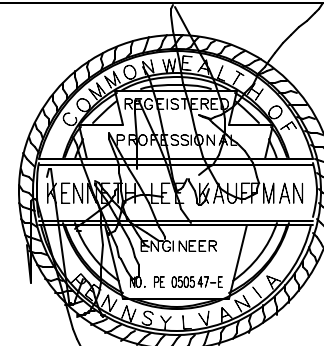
TOWSON, MARYLAND

CHARLOTTEVILLE, VIRGINIA

WHITE SULPHUR SPRINGS, WEST VIRGINIA

ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010

CR



ENLARGED MECHANICAL
ROOM PLANS

PLOTS SCALE
1/4" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758

M4.1

ROOFTOP UNITS (DX R454B)																																				
SYMBOL	UNIT TYPE	SERVING	OA CFM	S/A FAN PERFORMANCE					COOLING COIL CAPACITY						HOT GAS REHEAT		EFFICIENCY		HOT WATER COIL CAPACITY (WATER)										NOM. TONS	UNIT WEIGHT LBS.	ELECTRICAL			REMARKS		
				CFM	ESP	MOTOR			TOTAL	SENS.	EAT	EAT	LAT	LAT							EAT	LAT	LAT	EWT	LWT											
				(MAX.)	(MIN.)	IN. WC.	BHP	HP	MBH	MBH	F DB	F WB	F DB	F WB	CAP. MBH	LAT F	EER	IEER	MBH	EAT F DB	LAT F DB	F	F	GPM	WPD	ROWS/ FINS	VOLTAGE	MCA			MOCp					
RTU-1	MZV	ADMIN	800	3,720	1,860	1.0	2.96	5	146.4	89.5	79	66	53	53	69.8	74	12.1	15.4	178.4	56	100	160	120	9.1	5	4/8	12.5	1,400	208/3	77.4	90					
RTU-2	SZV	LOBBY	380	3,400	---	0.9	2.23	3	114.3	78.6	78.5	65	53	53	56.4	72	12.2	15.2	185.3	50	100	160	120	9.5	5	4/8	10	1,200	208/3	54.8	70					
RTU-4	SZV	MEDIA LIBRARY	630	3,400	---	0.9	2.23	3	114.3	78.6	78.5	65	53	53	56.4	72	12.2	15.2	185.3	50	100	160	120	9.5	5	4/8	10	1,200	208/3	54.8	70					

NOTES:

- RTU SELECTION IS BASED ON JCI YORK MODEL KJ.
- _____.
- UNITS ARE SINGLE POINT ELECTRICAL CONNECTION.
- VERIFYING WEIGHTS WITH APPROVED SUBMITTALS.

- FAN RPM FOR VAV UNITS ARE SCHEDULED AT 100% OPERATION.
- INCLUDE NEEDLEPOINT BIPOLAR IONIZATION MOUNTED IN SUPPLY FAN AREA.
- INDOOR DESIGN CONDITIONS: SUMMER = 75 F db/50% R.H WINTER = 70 F db/35% R.H.
- OUTDOOR DESIGN CONDITIONS: SUMMER = 95 F DB/75 F WB WINTER = 0 F DB

- INCLUDE MERV 13 FILTERS.

MZV - MULTI-ZONE VARIABLE AIR VOLUME
SZV = SINGLE ZONE VARIABLE AIR VOLUME

ROOFTOP UNIT (CHW, HW)																																						
SYMBOL	UNIT TYPE	SERVING	MAX/ MIN. O/A CFM	SUPPLY				PREHEAT HOT WATER COIL (WATER)								CHILLED WATER COIL (WATER)								REHEAT HOT WATER COIL (WATER)								ELECTRIC			UNIT WEIGHT (LBS)	REMARKS		
				CFM	ESP (IN.)	TYPE	BHP	HP	TOTAL MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT)	ROWS/ FINS	TOTAL MBH	SENS. MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT)	ROWS/ FINS	TOTAL MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT)	ROWS/ FINS	VOLTAGE			MCA	MOP
RTU-3	SZV	ART	575/ 755	1,800	0.5	VFD	0.75	1.5	19.0	40	50	160	120	1.0	1	1/8	78.2	56.6	82.2/ 67.4	53.9/ 53.5	45	55	15.6	4.1	6/10	99.0	50	100	160	120	5.1	1	2/11	208/3	5.6	15	2100	

NOTES:

- UNIT SELECTION BASED ON YORK MODEL XTO.
- INCLUDE PIPING VESTBULE.
- UNITS ARE SINGLE POINT ELECTRICAL CONNECTION.
- VERIFYING WEIGHTS WITH APPROVED SUBMITTALS.

- INCLUDE MERVE 13 FILTERS
- INCLUDE NEEDLEPOINT BIPOLAR IONIZATION MOUNTED IN SUPPLY FAN AREA.
- INDOOR DESIGN CONDITIONS: SUMMER = 75 F db/50% R.H WINTER = 70 F db/35% R.H.
- OUTDOOR DESIGN CONDITIONS: SUMMER = 95 F DB/75 F WB WINTER = 0 F DB

MZV - MULTI-ZONE VARIABLE AIR VOLUME
SZV = SINGLE ZONE VARIABLE AIR VOLUME

ROOFTOP UNIT (CHW, HW, ENERGY WHEEL)																																								
SYMBOL	UNIT TYPE	SERVING	O/A CFM	SUPPLY				EXHAUST				ENERGY WHEEL				CHILLED WATER COIL (WATER)								HOT WATER COIL (WATER)								ELECTRIC			UNIT WEIGHT (LBS)	REMARKS				
				CFM	ESP (IN.)	TYPE	BHP	HP	CFM	ECONO. CFM	ESP (IN.)	TYPE	BHP	ECONO. BHP	HP	EFF. %	SUMMER LAT (°F)	WINTER LAT (°F)	TOTAL MBH	SENS. MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT)	ROWS / FINS	TOTAL MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT)			ROWS / FINS	VOLTAGE	MCA	MOP
RTU-5	MZV	CLASSROOM	2,280	5,160	0.7	VFD	4.56	7.5	2055	4910	0.5	VFD	0.91		5.0	60	81.7/ 67.3	45.3/ 39.0	181.5	141.3	78/ 64	53	45	55	35.7	6.9		139.3	55	80	160	130.0	7.8	1		208/3	38.2	50	3100	
RTU-6	MZV	CLASSROOM	2,620	5,360	0.7	VFD	4.70	7.5	2360	5100	0.5	VFD	1.20		5.0	60	82.2/ 67.6	43.5/ 37.7	192.1	148.5	79/ 65	53	45	55	40.8	7.7		144.7	55	80	160	130.0	8.7	1		208/3	42.0	60	3100	

NOTES:

- _____.
- RTU SELECTION IS BASED ON _____
- UNITS ARE SINGLE POINT ELECTRICAL CONNECTION
- VERIFYING WEIGHTS WITH APPROVED SUBMITTALS

- FAN RPM FOR VAV UNITS ARE SCHEDULED AT 100% OPERATION.
- INDOOR DESIGN CONDITIONS: SUMMER = 75 F db/50% R.H WINTER = 70 F db/35% R.H.
- OUTDOOR DESIGN CONDITIONS: SUMMER = 95 F DB/75 F WB WINTER = 0 F DB
- NEEDLEPOINT BIPOLAR IONIZATION MOUNTED IN SUPPLY FAN AREA.

- FILTER MERV 13

MZV - MULTI-ZONE VARIABLE AIR VOLUME
SZV = SINGLE ZONE VARIABLE AIR VOLUME

100 PERCENT MAKE-UP AIR UNITS																								
SYMBOL	SUPPLY CFM	ESP	HP	FAN RPM	COOLING (DX)						HEATING (INDIRECT GAS-FIRED)					ELECTRICAL			UNIT WEIGHT LBS.	BASIS OF DESIGN		REMARKS		
					NOM. TONS	TOT MBH	SENS MBH	EAT DB/WB	LAT DB/WB	REFRIG. TYPE	COMPRESSOR TYPE	INPUT MBH	OUTPUT MBH	EAT	LAT	TURNDOWN	VOLTAGE	MCA		MOP	MANUFACTURER AND MODEL NO.			
MAU-1	2,640	0.5	(1) 1	1301	12.5	153.6	99.9	95 / 75	57.5/57.4	R-454B	INVERTER SCROLL	300.0	243.0	0	85.1	4:1 MOD.	208/3	59.9	90	2,300	GREENHECK RV-25-12.5I-J-E2			

SPLIT SYSTEM AIR CONDITIONING/HEAT PUMP																
SYMBOL	TYPE	COOLING MBH	SEER2	EER2	HEATING MBH	HSPF2	AMB TEMP.	CFM	O/A	EVAPORATOR FAN			ELECTRICAL			REMARKS
										ESP	FLA	VOLTAGE	VOLTAGE	MCA	MOP	
AC-1/CU-1	WALL	11	18	12	12	8.5	95°F	148 (LOW)	0	---	1.00	280/1	208/1	10	15	
AC-2/CU-2	WALL	33	20	10	35	8.5	95°F	601 (LOW)	0	---	0.90	280/1	208/1	23	30	
AC-3/CU-3	WALL	11	18	12	12	8.5	95°F	148 (LOW)	0	---	1.00	280/1	208/1	10	15	
AC-4/CU-4	2x2 CASSETTE	9	22.2	13.9	11	10	95°F	230 (LOW)	0	---	0.65	280/1	208/1	13.4	15	
AC-5/CU-5	2x2 CASSETTE	9	22.2	13.9	11	10	95°F	230 (LOW)	30	---	0.65	280/1	208/1	13.4	15	
AC-6/CU-6	WALL	11	18	12	12	8.5	95°F	148 (LOW)	0	---	1.00	280/1	208/1	10	15	

NOTES:

1. (E) DENOTES EXISTING UNIT
2. ACTION: ETR=EXISTING TO REMAIN, REMOVE=REMOVE UNIT AND TURN OVER TO OWNER, RELOCATE=MOVE THE UNIT TO ANOTHER ROOM.
3. PLENUM RETURN: MIXING BOX WITH LINKAGE, MIXING BOX DAMPER LOCATION TOP AND REAR INLET.
4. PLENUM RETURN: CEILING ACCESS RETURN PANEL.

NOTES:

1. PLENUM RETURN: MIXING BOX WITH LINKAGE, MIXING BOX DAMPER LOCATION TOP.
2. PLENUM RETURN: CEILING ACCESS RETURN PANEL.

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[illegible]

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CRABTREE ROHRBAUGH
401 EAST WINDING HILL ROAD
MECHANICSBURG PA 17055
717-458-0272

HVAC SCHEDULES	PROJECT 3758
PLOT SCALE: 12" = 1'-0"	M5.2
FILENAME: 24066	
DATE: MARCH 10, 2025	

FAN POWERED VAV BOXES																						
SYMBOL	UNIT SIZE	INLET DIA.	COOLING CFM	MIN. CFM	INLET SP	OUTLET SP	HOT WATER HEATING COIL								ELECTRICAL				MANUF.	MODEL	REMARKS	
							CFM	MBH	EAT	LAT	EWT	LWT	GPM	WPD	VOLTAGE	FLA	HP	TYPE				
FV-5-1	1211E-Lo	12	930	445	0.25	0.5	930	40.2	60	100	160	135	3.7	3.3	208 / 1	5	1/2	ECM	JCI	TCL		
FV-5-2	0808E-Lo	8	580	255	0.25	0.5	580	25.1	60	100	160	134	2.5	0.7	208 / 1	3	1/3	ECM	JCI	TCL		
FV-5-3	0406E-Lo	4	190	65	0.25	0.5	190	8.2	60	100	160	131	0.8	0.2	208 / 1	3	1/3	ECM	JCI	TCL		
FV-5-4	1011E-Lo	10	880	455	0.25	0.5	880	38.0	60	100	160	135	3.6	2.8	208 / 1	5	1/2	ECM	JCI	TCL		
FV-5-5	1011E-Lo	10	920	455	0.25	0.5	920	39.7	60	100	160	135	3.7	2.8	208 / 1	5	1/2	ECM	JCI	TCL		
FV-5-6	1211E-Lo	12	940	445	0.25	0.5	940	40.6	60	100	160	135	3.7	3.3	208 / 1	5	1/2	ECM	JCI	TCL		
FV-6-1	0806E-Lo	8	510	285	0.25	0.5	510	22.0	60	100	160	133	1.9	0.6	208 / 1	3	1/3	ECM	JCI	TCL		
FV-6-2	0808E-Lo	8	650	295	0.25	0.5	650	28.1	60	100	160	134	2.7	1.6	208 / 1	3	1/3	ECM	JCI	TCL		
FV-6-3	1011E-Lo	10	820	445	0.25	0.5	820	35.4	60	100	160	135	3.4	2.8	208 / 1	5	1/2	ECM	JCI	TCL		
FV-6-4	1011E-Lo	10	820	445	0.25	0.5	820	35.4	60	100	160	135	3.4	2.8	208 / 1	5	1/2	ECM	JCI	TCL		
FV-6-5	1011E-Lo	10	700	455	0.25	0.5	700	30.2	60	100	160	135	3.1	2.8	208 / 1	5	1/2	ECM	JCI	TCL		
FV-6-6	1011E-Lo	10	890	455	0.25	0.5	890	38.4	60	100	160	135	3.6	2.8	208 / 1	5	1/2	ECM	JCI	TCL		

PUMPS														
SYMBOL	ACTION	SERVICE	TYPE	FLUID	GPM	FT. HD	H.P.	RPM	EFF.	IMP. SIZE (IN.)	MOTOR	DRIVE TYPE	VOLTAGE	BASIS OF DESIGN MANUFACTURER AND MODEL
(E)HWP-1	REMOVE	PRIMARY HOT WATER	END-SUCTION	WATER	360	85	15	1760	72.2%	9.55	ODP	VFD	208/3	TACO FI 3011D
(E)HWP-2	REMOVE	PRMARY HOT WATER	END-SUCTION	WATER	360	85	15	1760	72.2%	9.55	ODP	VFD	208/3	TACO FI 3011D
P-3	NEW	SECONDARY HOT WATER	END-SUCTION	WATER	457	126	25	1760	75.0%	11.85	ODP	VFD	208/3	TACO FI 3013D
P-4	NEW	SECONDARY HOT WATER	END-SUCTION	WATER	457	126	25	1760	75.0%	11.85	ODP	VFD	208/3	TACO FI 3013D
(E)CWP-1	ETR	CHILLER HYDROKIT PUMP PRIMARY CHILLED WATER CH-1	DUAL	WATER	394.6	121.1	20	3540	73.0%	7.92	ODP	VFD	208/3	ARMSTRONG N/S 4392 0308-0200
P-1	NEW	PRIMARY BOILER PUMP	INLINE	WATER	200	30	3	1760	78.0%	FULL	ODP	VFD	208/3	TACO KV3007D
P-2	NEW	PRIMARY BOILER PUMP	INLINE	WATER	200	30	3	1760	78.0%	FULL	ODP	VFD	208/3	TACO KV3007D

NOTES:
1. (E) DENOTES EXISTING UNIT
2. ACTION: ETR=EXISTING TO REMAIN, REMOVE=REMOVE UNIT AND TURN OVER TO OWNER.

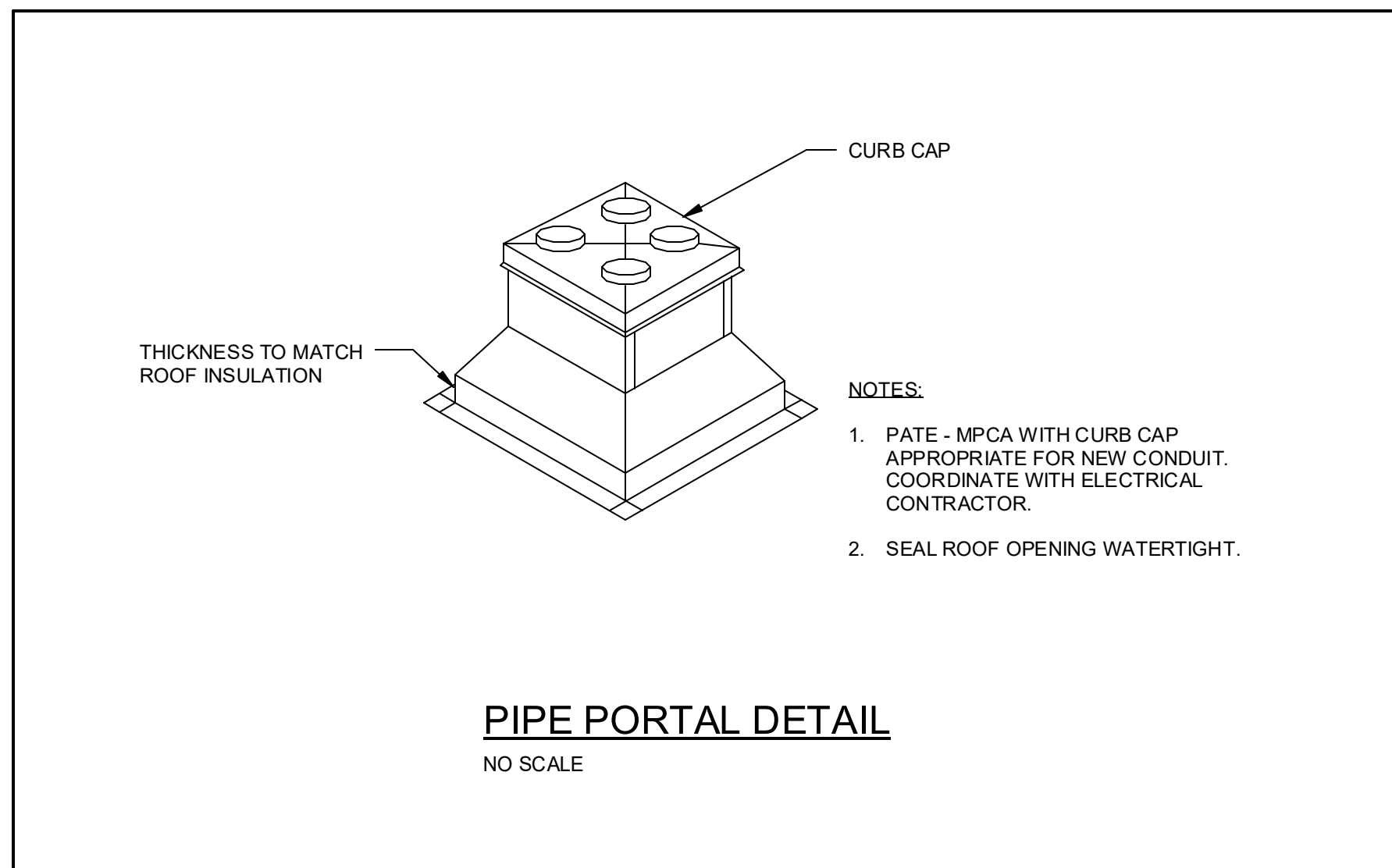
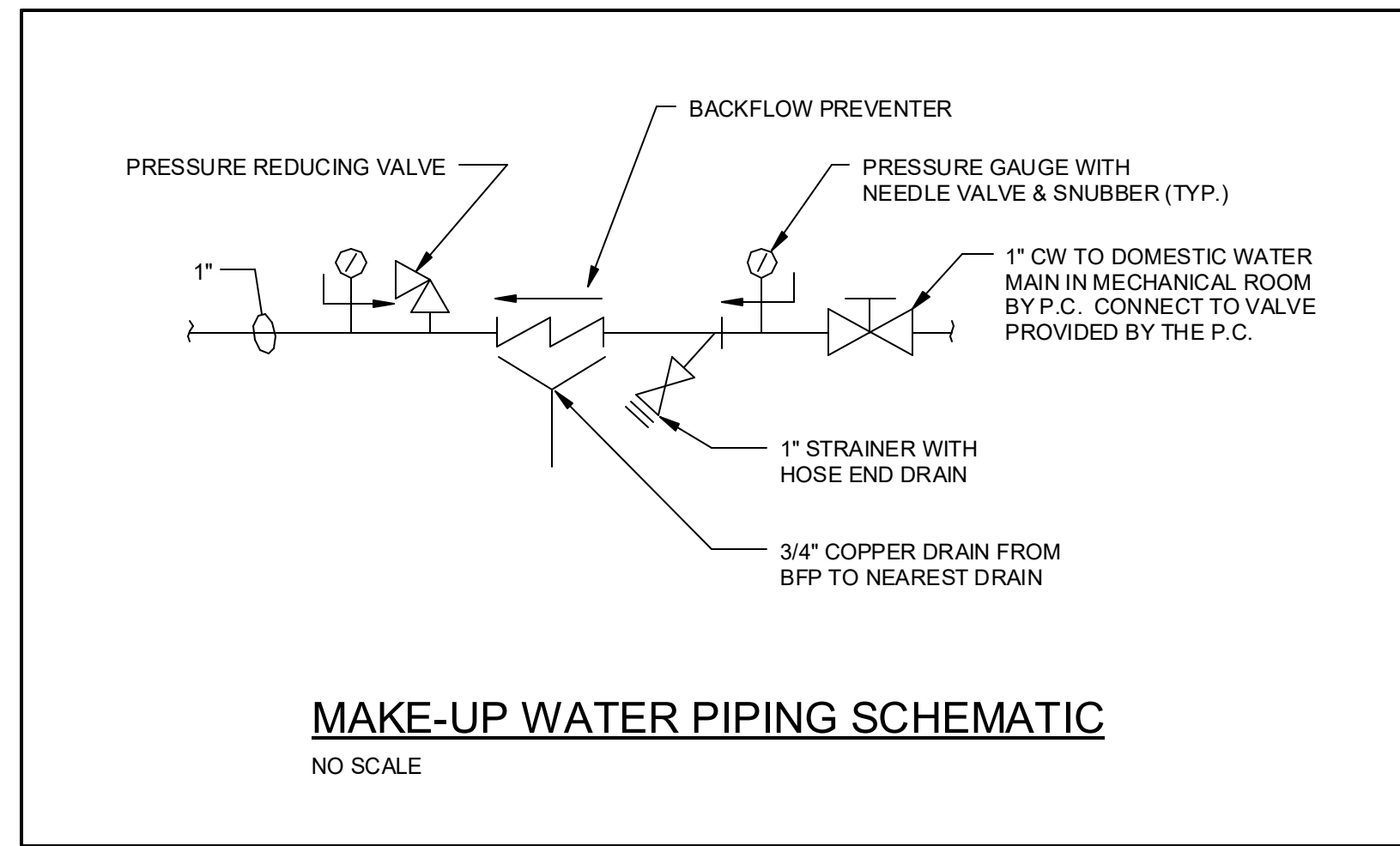
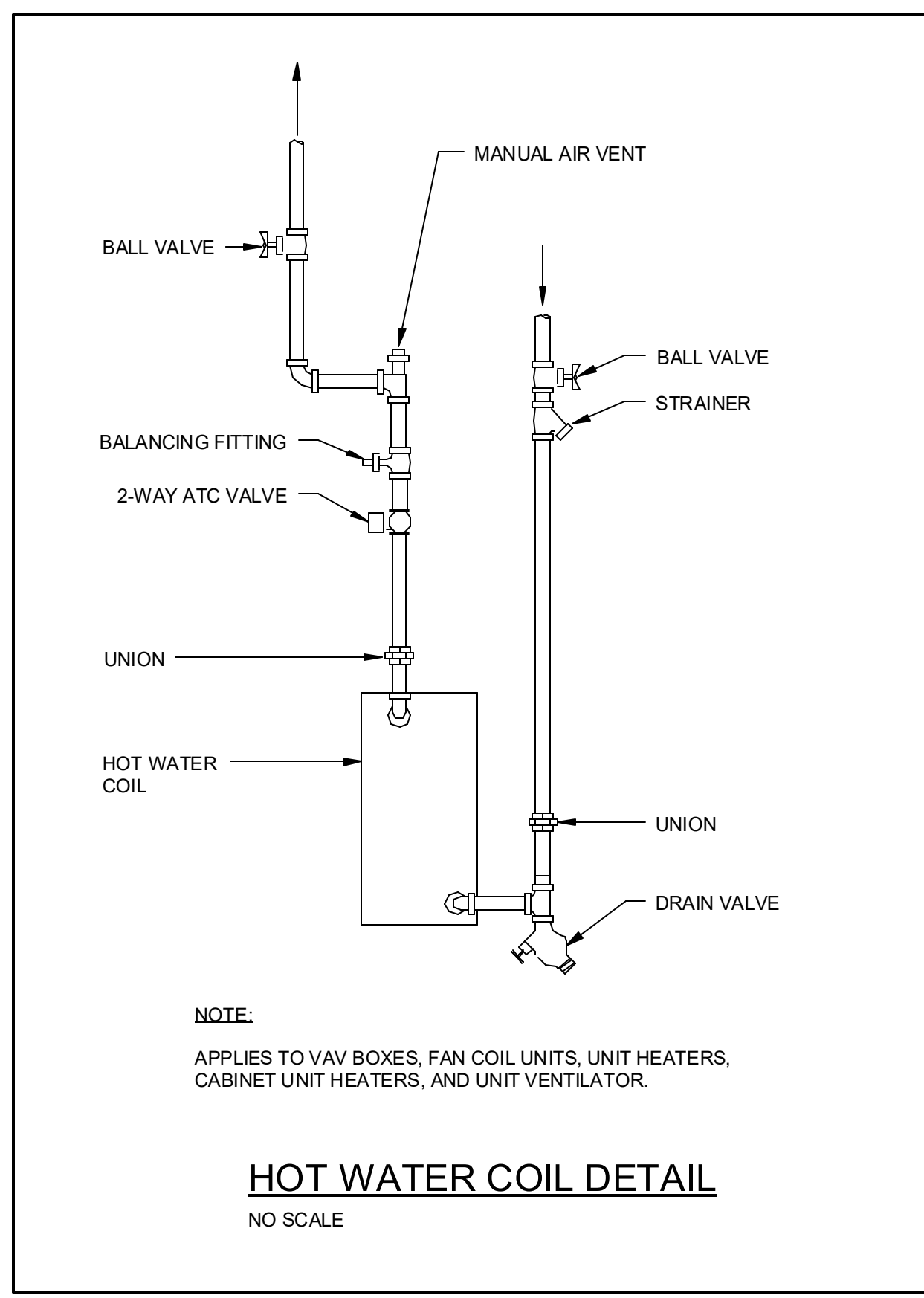
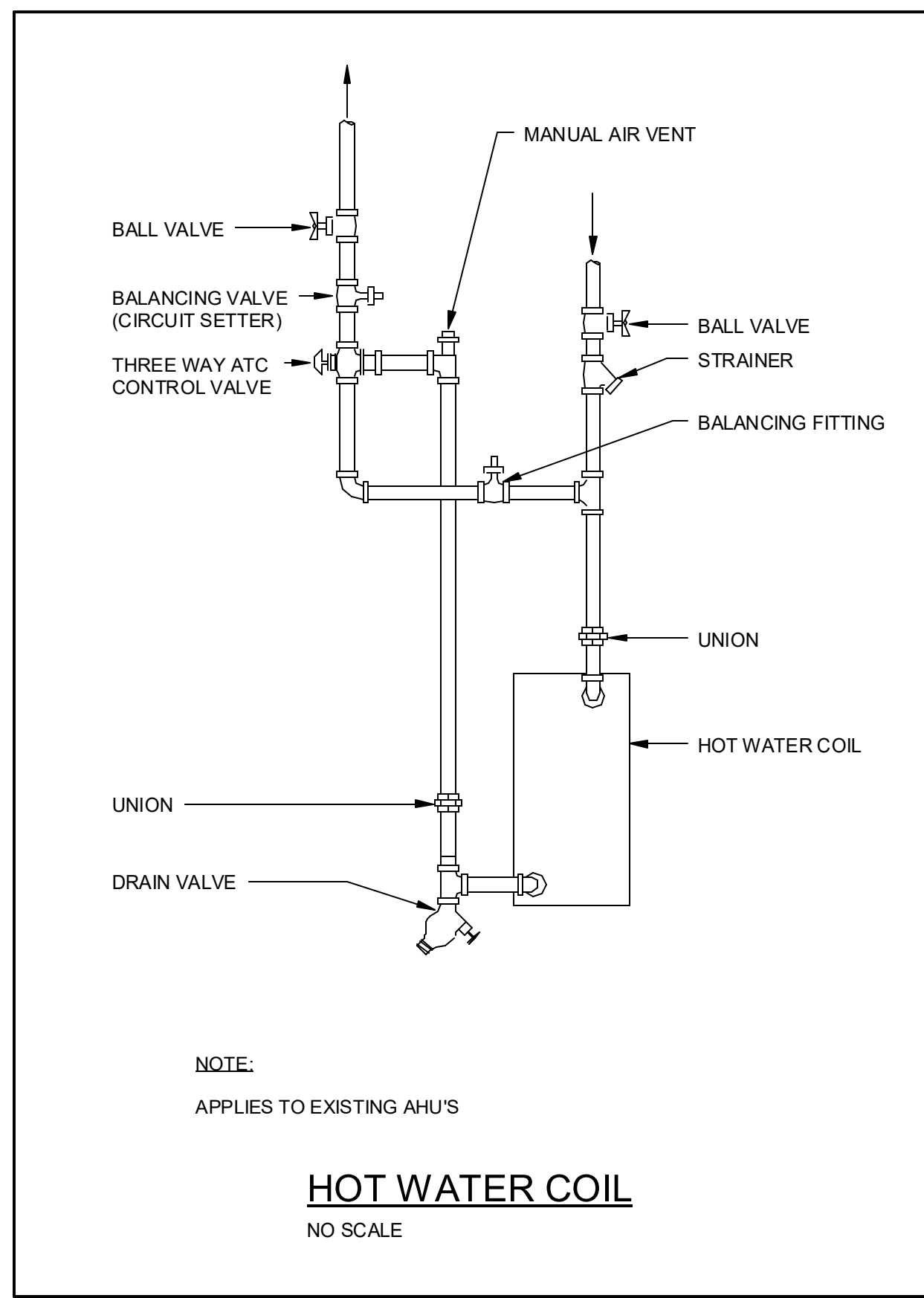
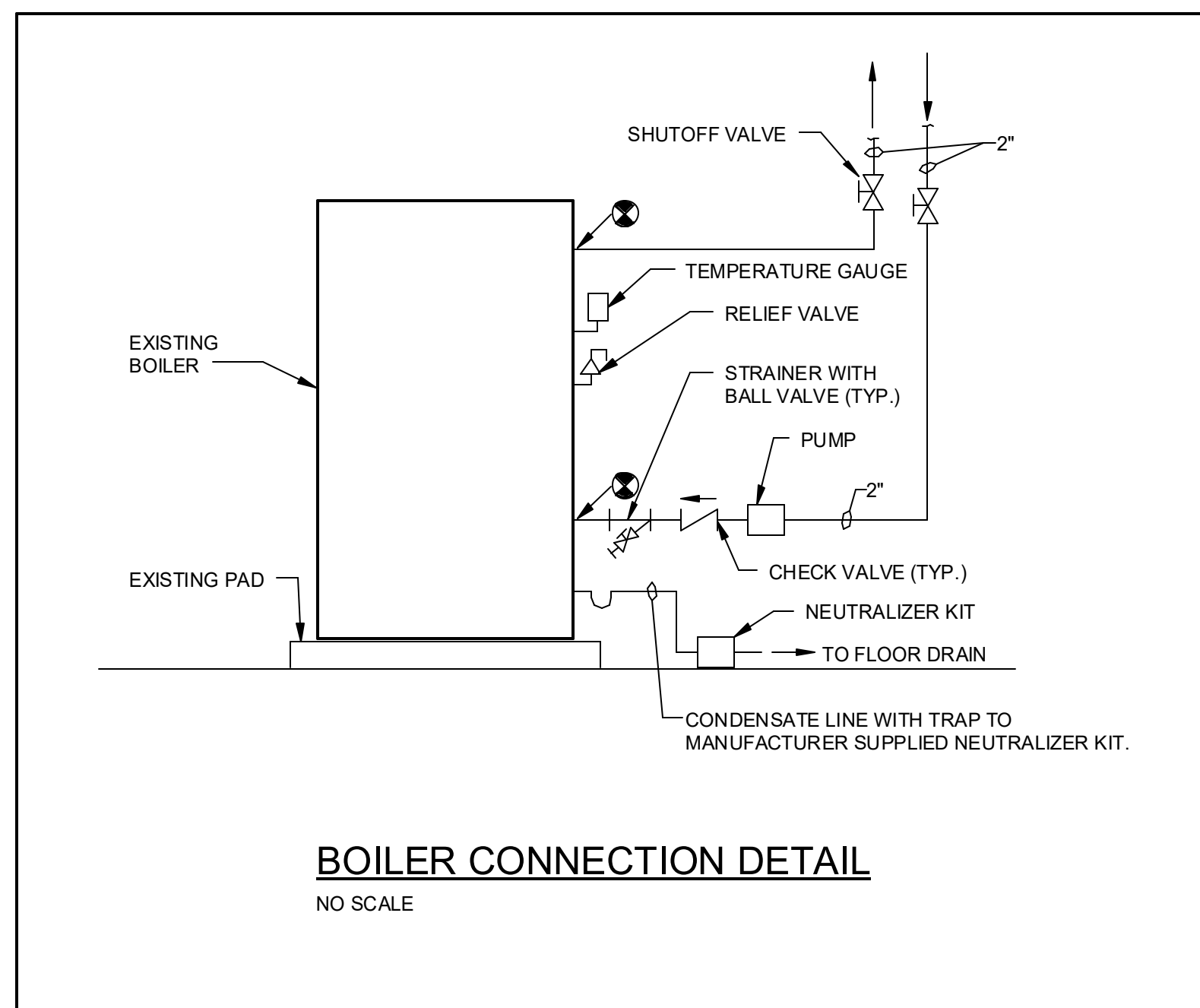
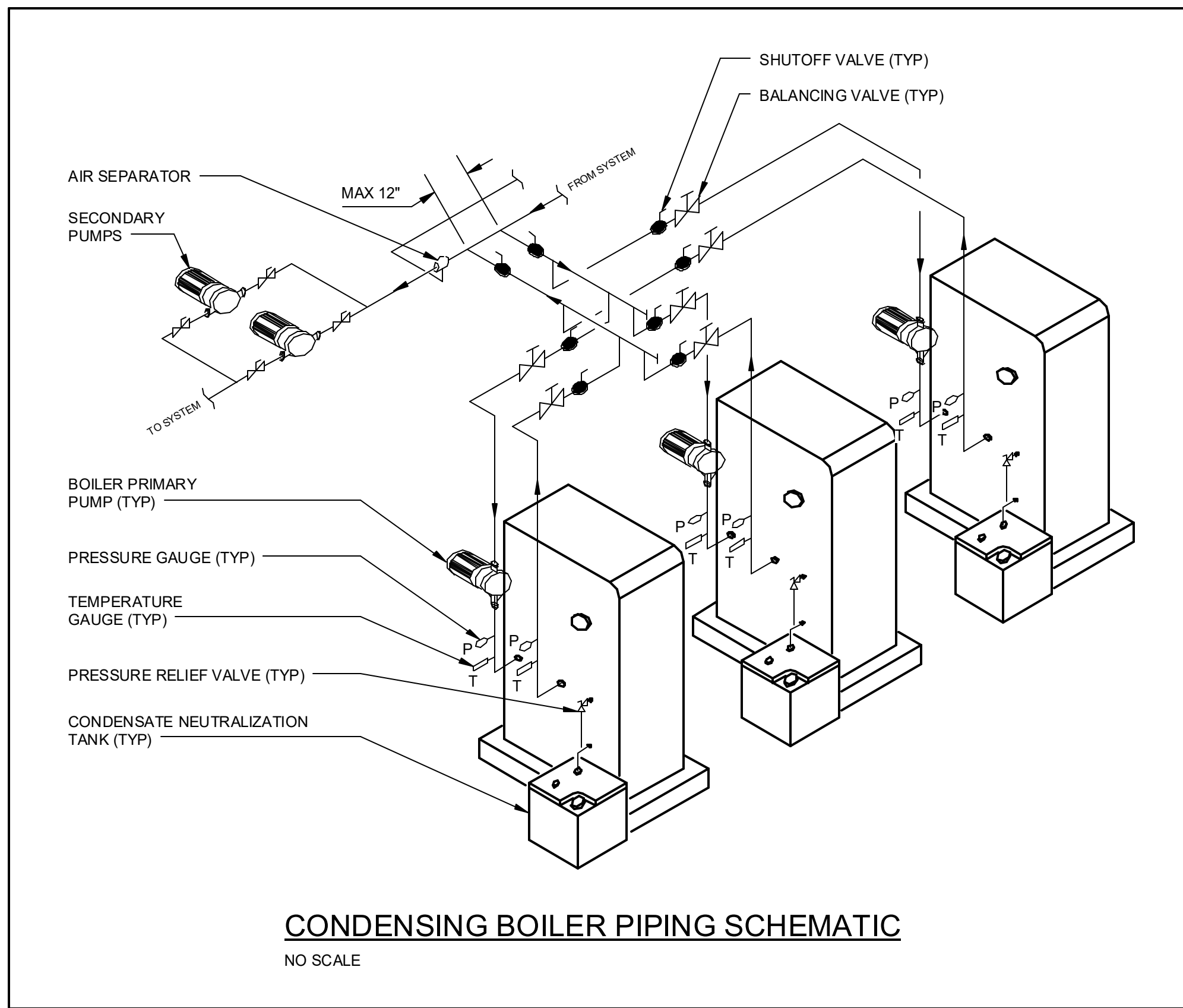
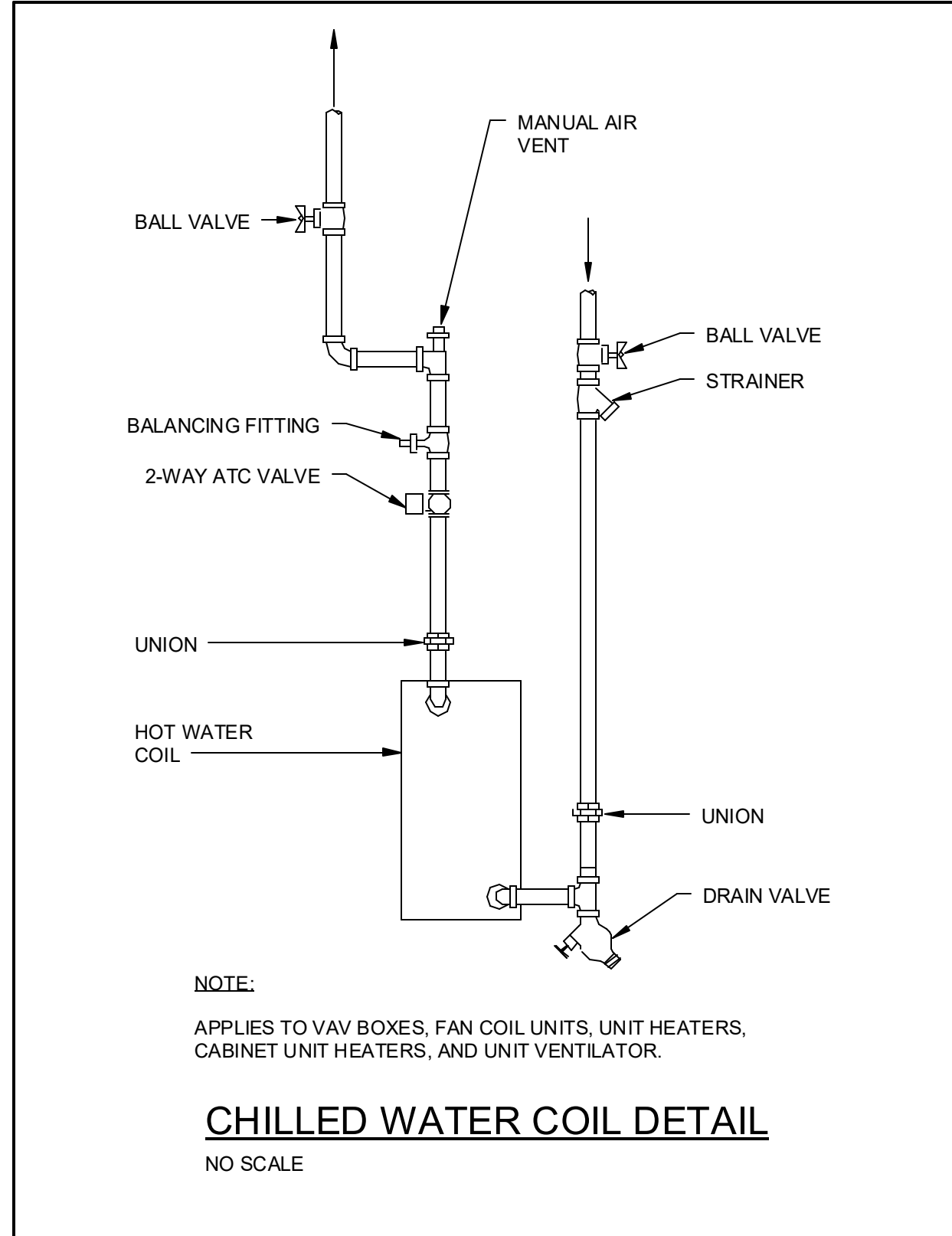
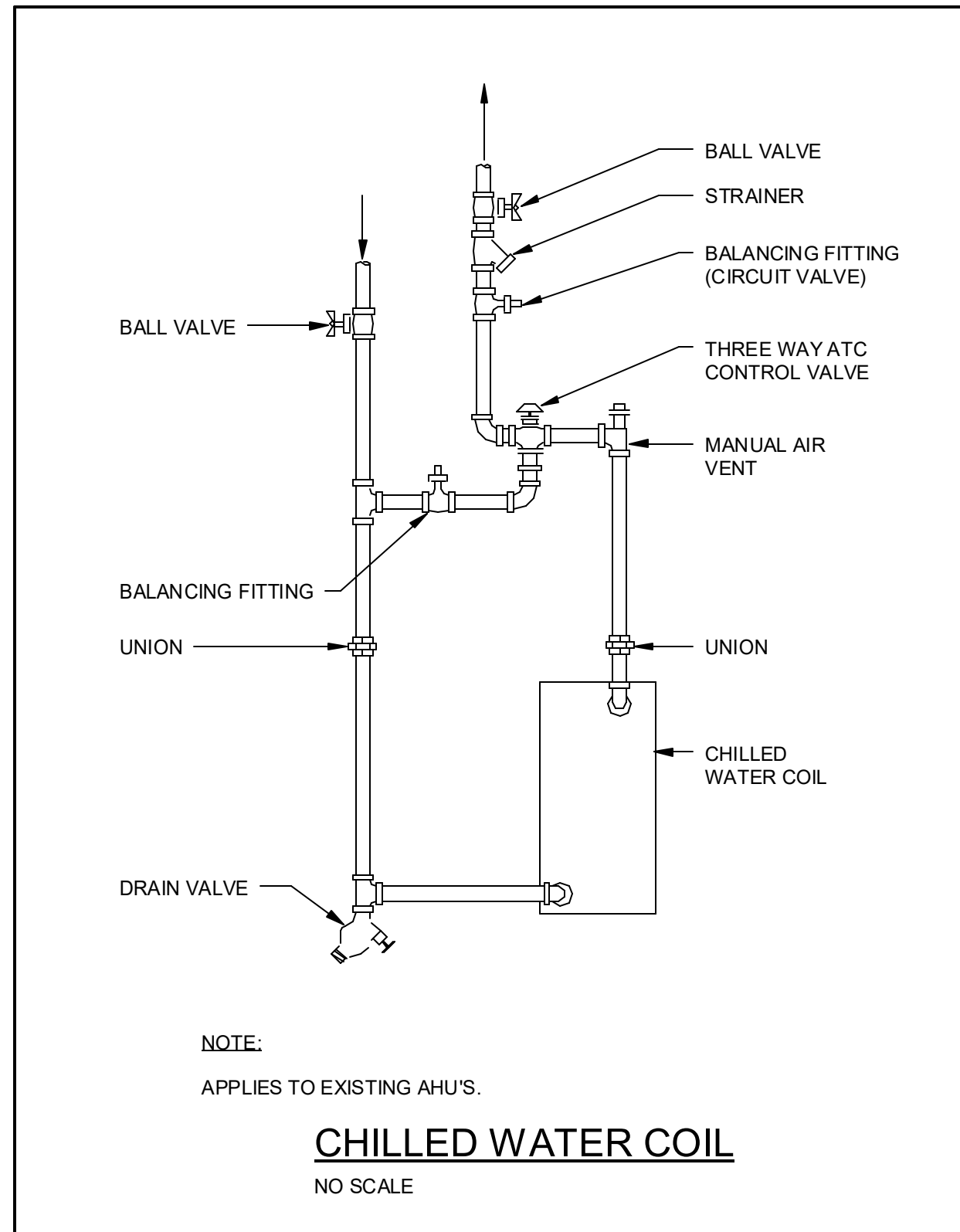
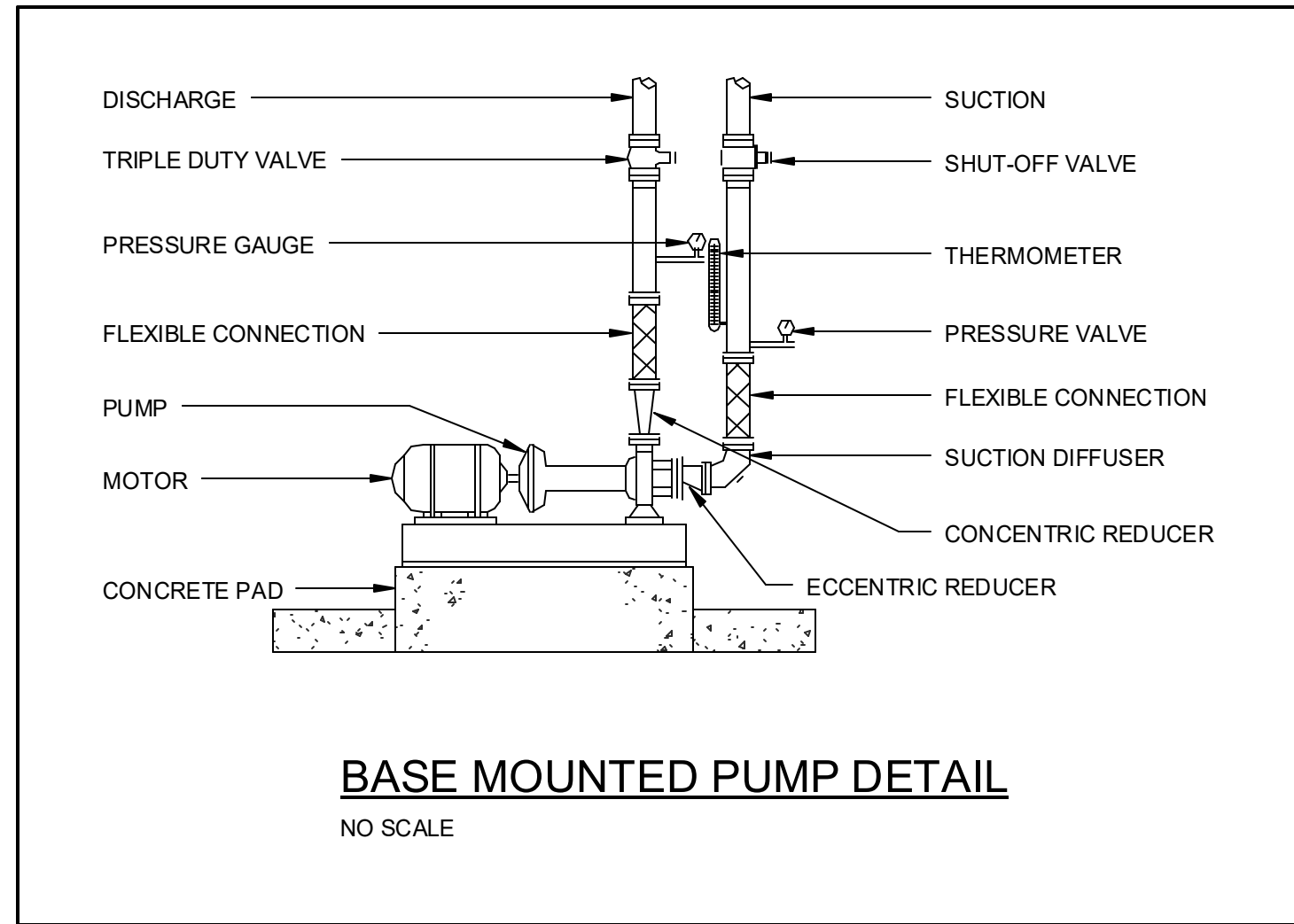
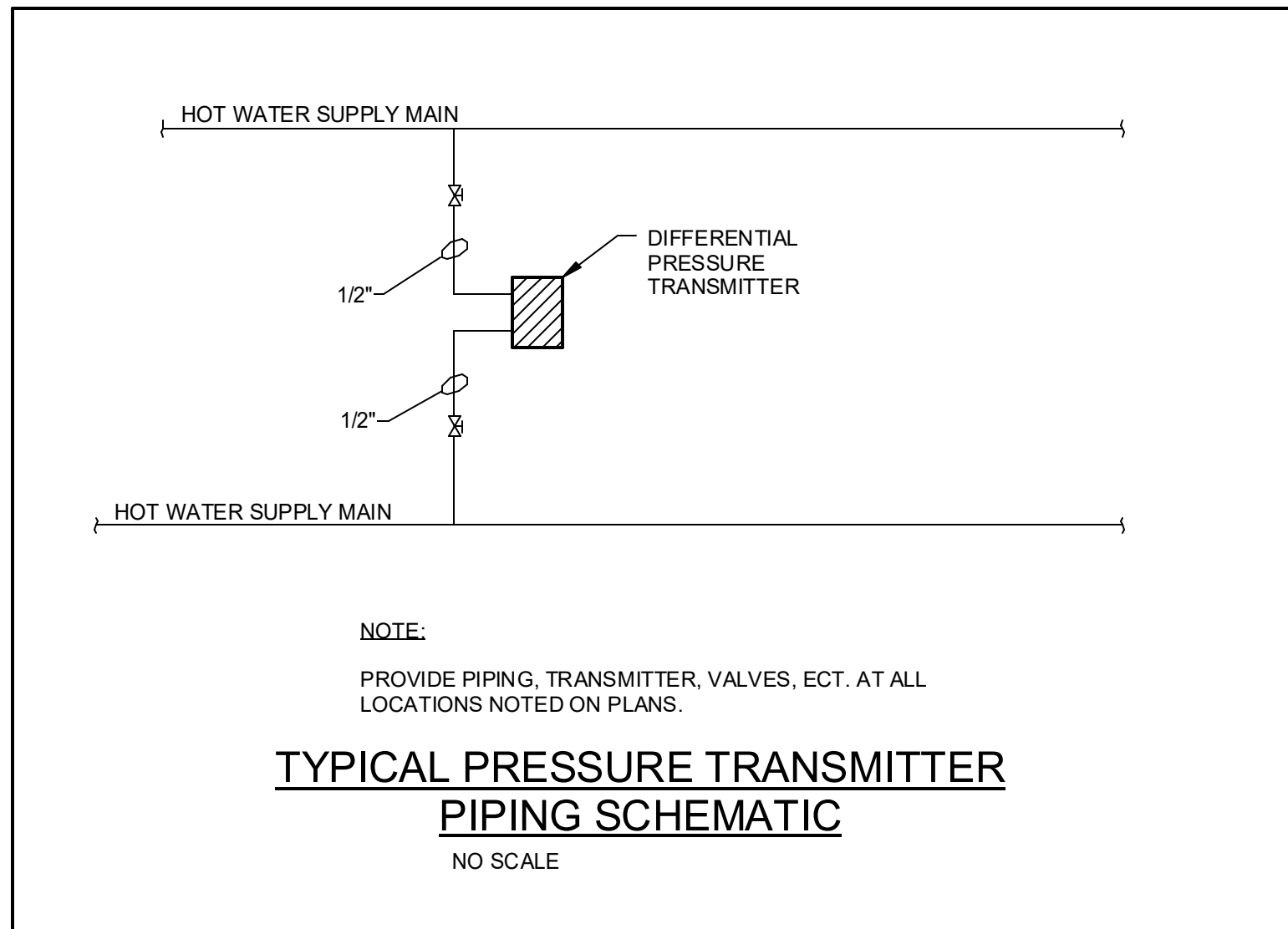
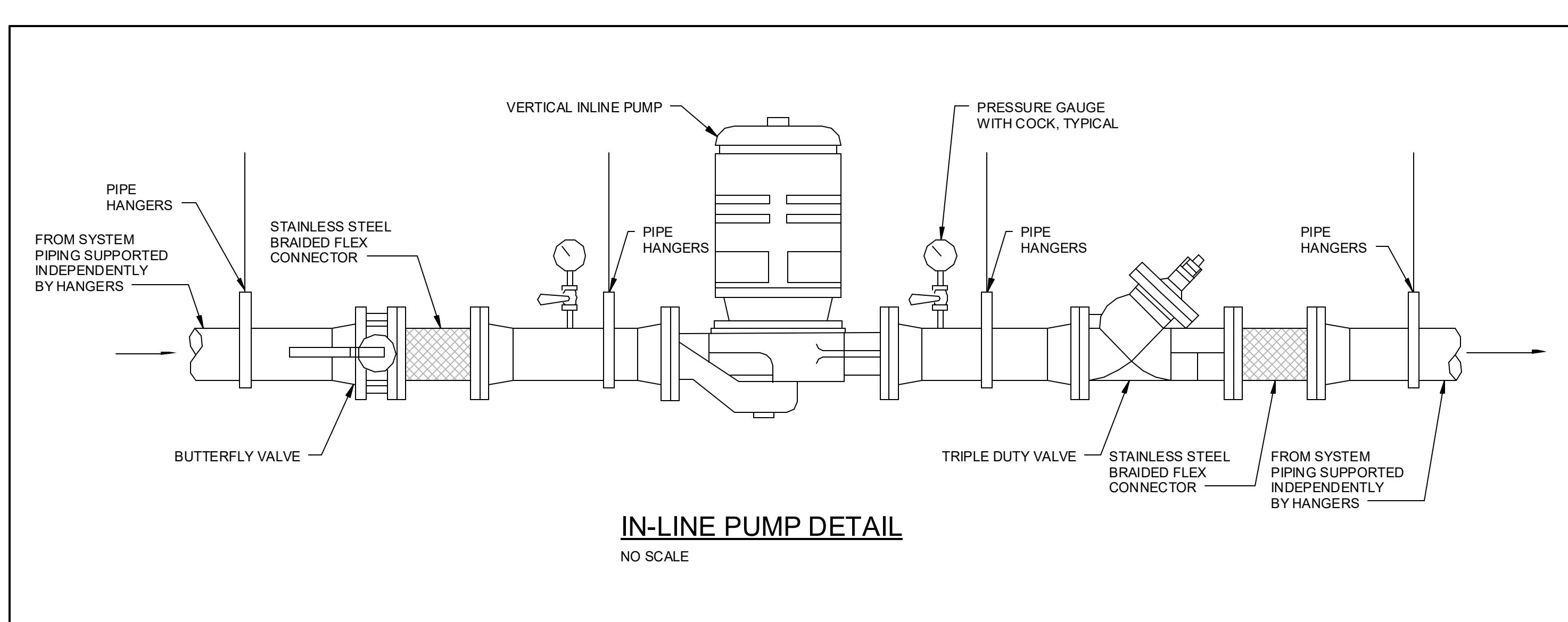
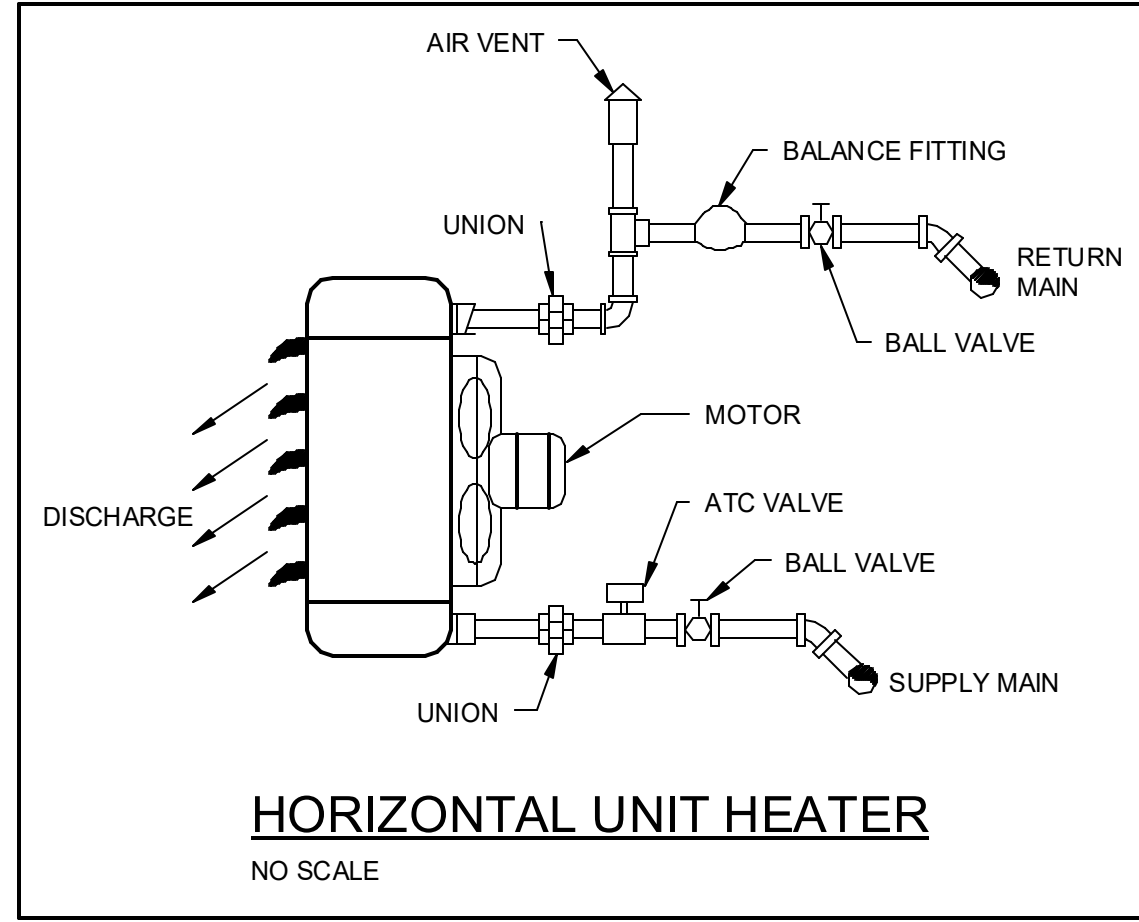
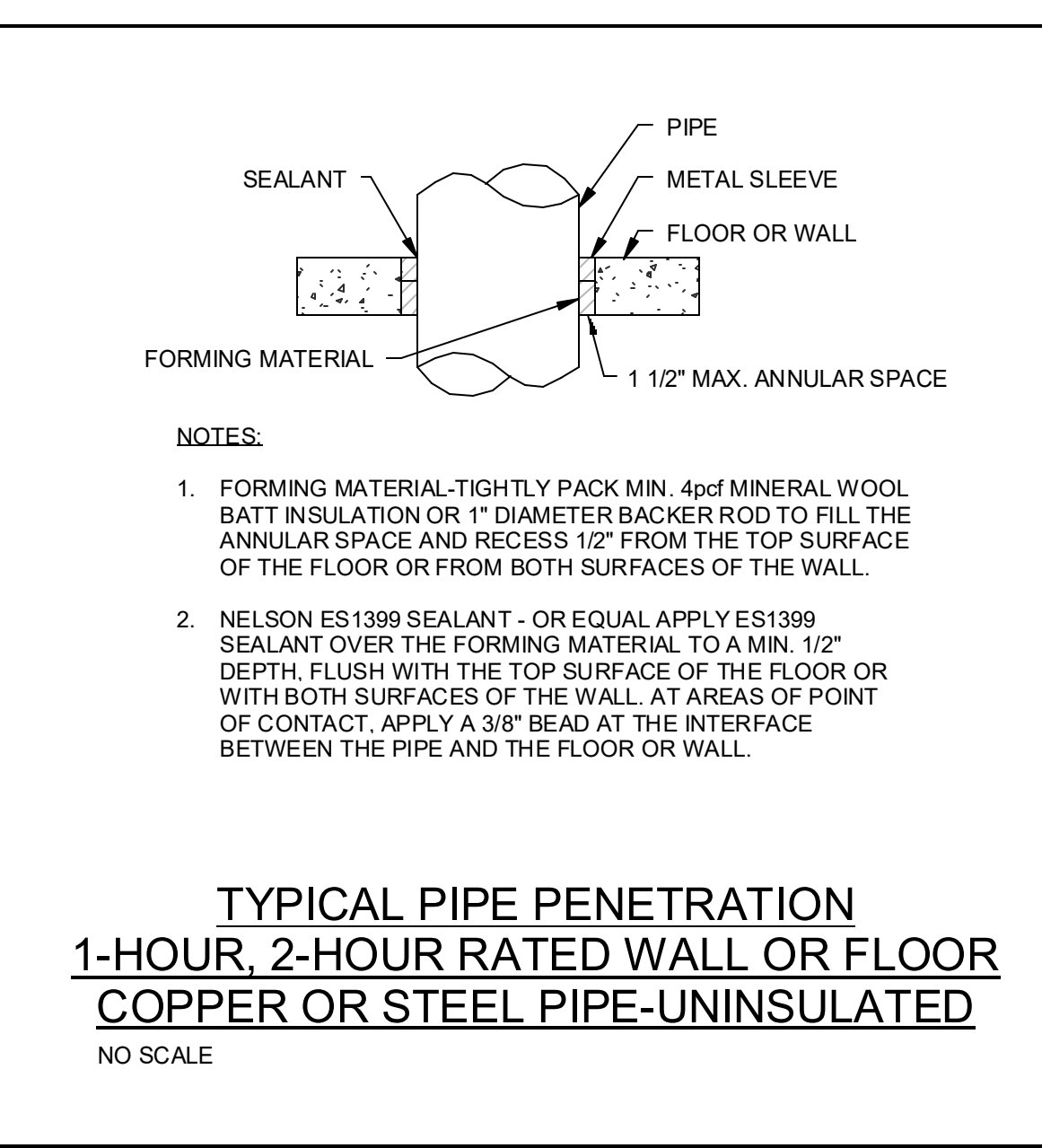
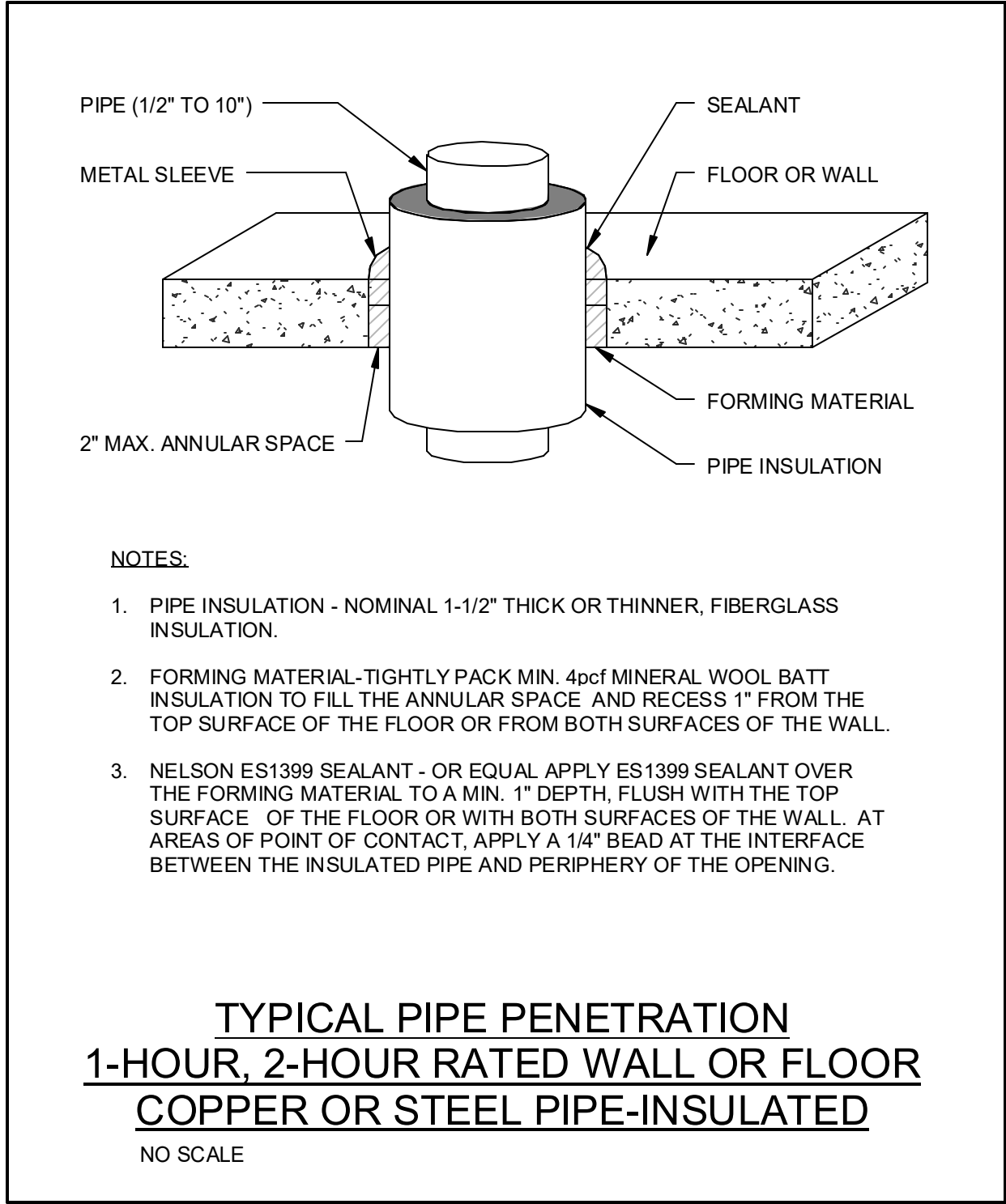
EXISTING BOILERS																				
SYMBOL	FUEL	MIN. INPUT MBH	MAX. INPUT MBH	GROSS OUTPUT MBH	AHRI OUTPUT MBH	EFF.	AHRI EFF.	TURN DOWN	MAX. GPM	MIN. GPM	20°F ΔT WATER FLOW (GPM)	WPD (FT)	40°F ΔT WATER FLOW (GPM)	WPD (FT)	INLET/ OUTLET CONN.	VENT SIZE	ELECTRICAL			EXISTING
																	VOLTS/PH	MCA	MOP	MANUFACTURERS AND MODEL NO.
(E)B-1	NATURAL GAS	80	1,999	1,923	1,672	96%	84%	25:1	350	25	192	14.5	96	8.1	4	8	120/1	16	20	LOCHINVAR FB 2001
(E)B-2	NATURAL GAS	80	1,999	1,923	1,672	96%	84%	25:1	350	25	192	14.5	96	8.1	4	8	120/1	16	20	LOCHINVAR FB 2001

EXISTING CHILLER																																		
SYMBOL	SYSTEM	NET COOLING TONS	TYPE	REFRIG.	EER	IPLV/IP	NPLV/IP	EVAPORATOR DATA						ELECTRICAL							OPERATING WEIGHT LBS.	REMARKS	CHILLER SOUND POWER LEVELS (AHRI 370)											
								GPM	EWT F	LWT F	WPD FT	FLUID	MIN GPM	MAX GPM	VOLTAGE	CIRCUIT - 1 - 2			2 PUMPS	MCA			MOCP	STARTER TYPE	PERCENT LOAD	OCTAVE BAND CENTER FREQUENCY, HZ								LWA (dBA)
																COMP.	RLA	FAN QTY/ FLA								HIGH LRA	63	125	250	500	1000	2000	4000	
(E)CH-1	AIR COOLED CHILLER	172.6	SCROLL	R-410A	9.829	16.17	16.34	412	55.0	45.0	22.6	WATER	149.9	624.5	208/3	106.0	5/ 7.6	652.0	54.0	794.0	800.0	ACROSS THE LINE	9,423		100	100.0	99.0	95.0	96.0	93.0	89.0	86.0	83.0	98
															120/1	UNIT CONTROL SUPPLY			30	30				77	100.0	99.0	95.0	95.0	92.0	88.0	85.0	83.0	97	

EXISTING AIR HANDLING UNITS																																		
SYMBOL	ACTION	MODEL	SIZE	UNIT TYPE	SUPPLY CFM	MIN. O/A CFM	ESP	HP	MOTOR TYPE	COOLING COIL (WATER)											HEATING COIL (WATER)								FILTER	ELECTRIC DATA			UNIT WEIGHT LBS.	REMARKS
										TOTAL MBH	SENS. MBH	EAT DB	EAT WB	LAT DB	LAT DB	EWT	LWT	GPM	WPD	ROWS	TOTAL MBH	EAT	LAT	EWT	LWT	GPM	WPD	ROWS		VOLTAGE	MCA	MOP		
(E)AHU-1	ETR	AMI-V	17	HORIZONTAL PLENUM RETURN	9,350	2,500	1	(1) 10	TEFC	339.1	254.4	78.3	64.8	53.7	52.6	45	54.9	67.9	15.4	6	459.0	55.3	100.6	120	140	46.7	3.9	3	2" MERV 8	208/3	38.5	60	2058	
(E)AHU-2	ETR	AMI-V	17	HORIZONTAL PLENUM RETURN	9,350	2,500	1	(1) 10	TEFC	312.4	240.0	78.3	64.8	55.1	53.6	45	54.9	62.7	13.3	6	459.0	55.3	100.6	120	140	46.7	3.9	3	2" MERV 8	208/3	38.5	60	2041	
(E)AHU-3	ETR	AMI-V	17	HORIZONTAL PLENUM RETURN	6,000	1,200	1	(1) 5	TEFC	235.7	189.7	78.3	64.8	55.4	54.4	45	54.9	47.2	2.3	6	407.9	55.3	105.4	120	140	41.7	3.1	2	2" MERV 8	208/3	21	35	1986	
(E)AHU-4	ETR	AMI-V	17	HORIZONTAL PLENUM RETURN	4,000	1,000	0.5	(1) 3	ODP PREMIUM	139.5	107.1	78.3	64.8	54.1	53.1	45	55	27.9	6.6	8	213.4	55.3	104.5	120	140	22	3.5	2	2" MERV 8	208/3	14.75	25	1043	
(E)RTAHU-1	REMOVE	XTO	42X66	HORIZONTAL PLENUM RETURN	6,000	1,500	1	(1) 5	ODP PREMIUM	198.0	151.0	78.3	64.8	55	53.6	45	55.3	38.9	7.8	5	295.0	55.3	100.7	120	140	29.1	2.7	2	2" MERV 8	208/3	17.5	30	2701	

NOTES:
1. (E) DENOTES EXISTING UNIT
2. ACTION: ETR=EXISTING TO REMAIN, REMOVE=REMOVE UNIT AND HANDOVER TO OWNER, RELOCATE=MOVE THE UNIT TO ANOTHER ROOM.

VAV BOXES																	
SYMBOL	INLET SIZE	COOLING CFM	MIN. CFM	INLET SP	OUTLET SP	HOT WATER HEATING COIL								MANUF.	MODEL	REMARKS	
						CFM	MBH	EAT	LAT	EWT	LWT	FLOW	WPD				
V-1-1	08	430	45	1	0.25	430	17.3	60	100	160	130	1.2	0.3	JCI	TSS		
V-1-2	06	240	25	1	0.25	240	10.4	60	100	160	130	0.7	0.1	JCI	TSS		
V-1-3	06	280	30	1	0.25	280	12.2	60	100	160	130	0.8	0.2	JCI	TSS		
V-1-4	06	280	30	1	0.25	280	12.2	60	100	160	130	0.8	0.2	JCI	TSS		
V-1-5	04	70	15	1	0.25	70	3.0	60	100	160	130	0.3	0.1	JCI	TSS		
V-1-6	08	530	120	1	0.25	530	23.0	60	100	160	130	1.5	0.3	JCI	TSS		
V-1-7	12	990	145	1	0.25	990	43.0	60	100	160	130	2.8	1.8	JCI	TSS		
V-1-8	05	190	85	1	0.25	190	8.2	60	100	160	130	0.5	0.1	JCI	TSS		
V-1-9	08	510	285	1	0.25	510	22.1	60	100	160	130	1.4	0.3	JCI	TSS		
V-1-10	05	200	40	1	0.25	200	8.7	60	100	160	130	0.6	0.1	JCI	TSS		
V-5-1	10	820	250	1	0.25	820	32.3	60	100	160	130	2.3	1.0	JCI	TSS		
V-5-2	10	540	160	1	0.25	540	20.6	60	100	160	130	1.5	0.4	JCI	TSS		
V-6-1	05	140	70	1	0.25	140	6.0	60	100	160	130	0.4	0.1	JCI	TSS		
V-6-2	10	990	300	1	0.25	990	41.7	60	100	160	130	2.8	1.8	JCI	TSS		
V-6-3	10	600	180	1	0.25	600	25.8	60	100	160	130	1.7	0.6	JCI	TSS		



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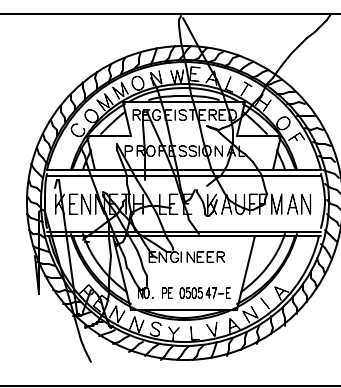
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ADDITIONS AND RENOVATIONS TO

COOPERTOWN ELEMENTARY SCHOOL

SCHOOL DISTRICT OF HAVERFORD TOWNSHIP

800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010



HVAC DETAILS

PLOTS/SCALE
As indicated

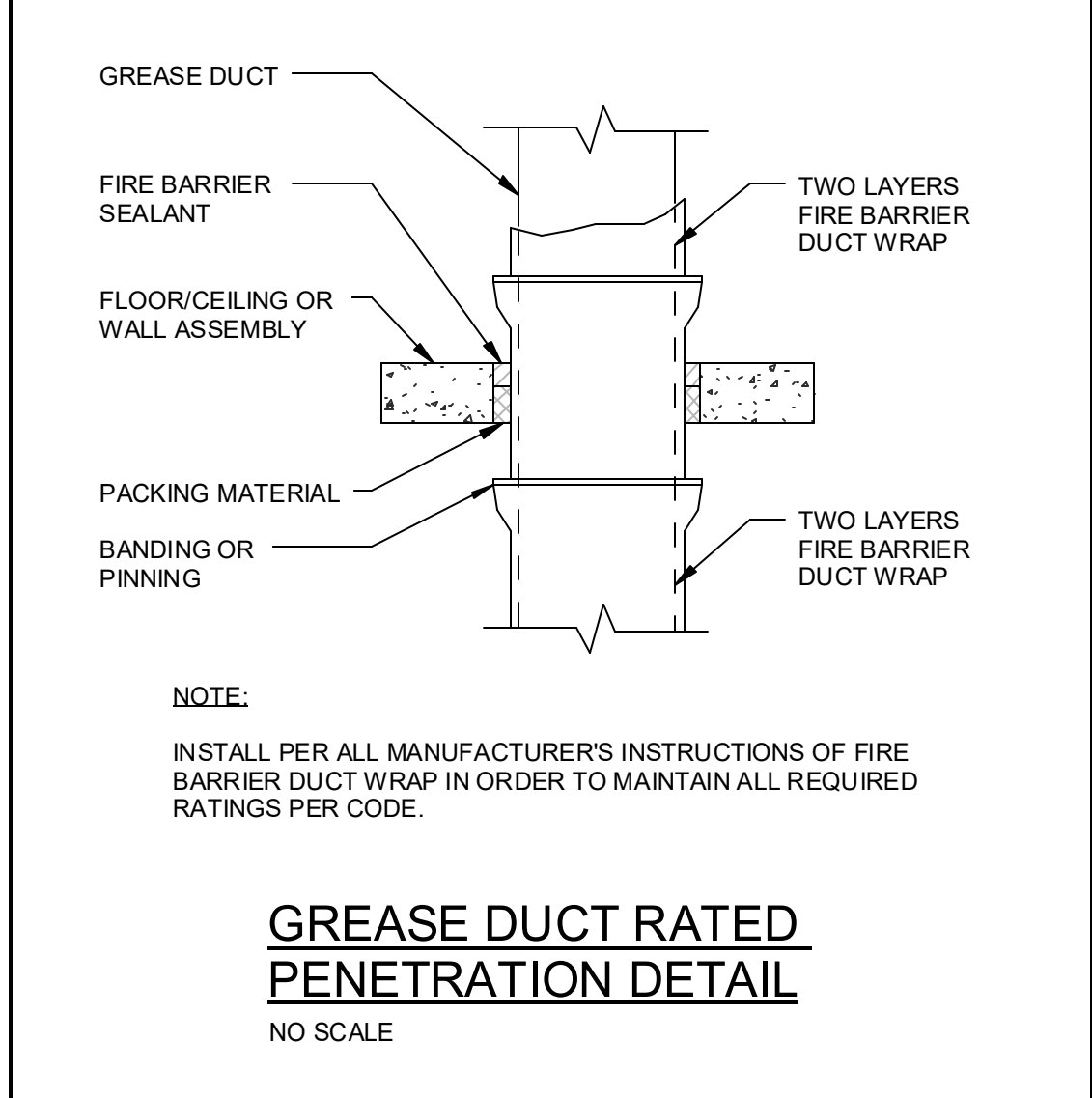
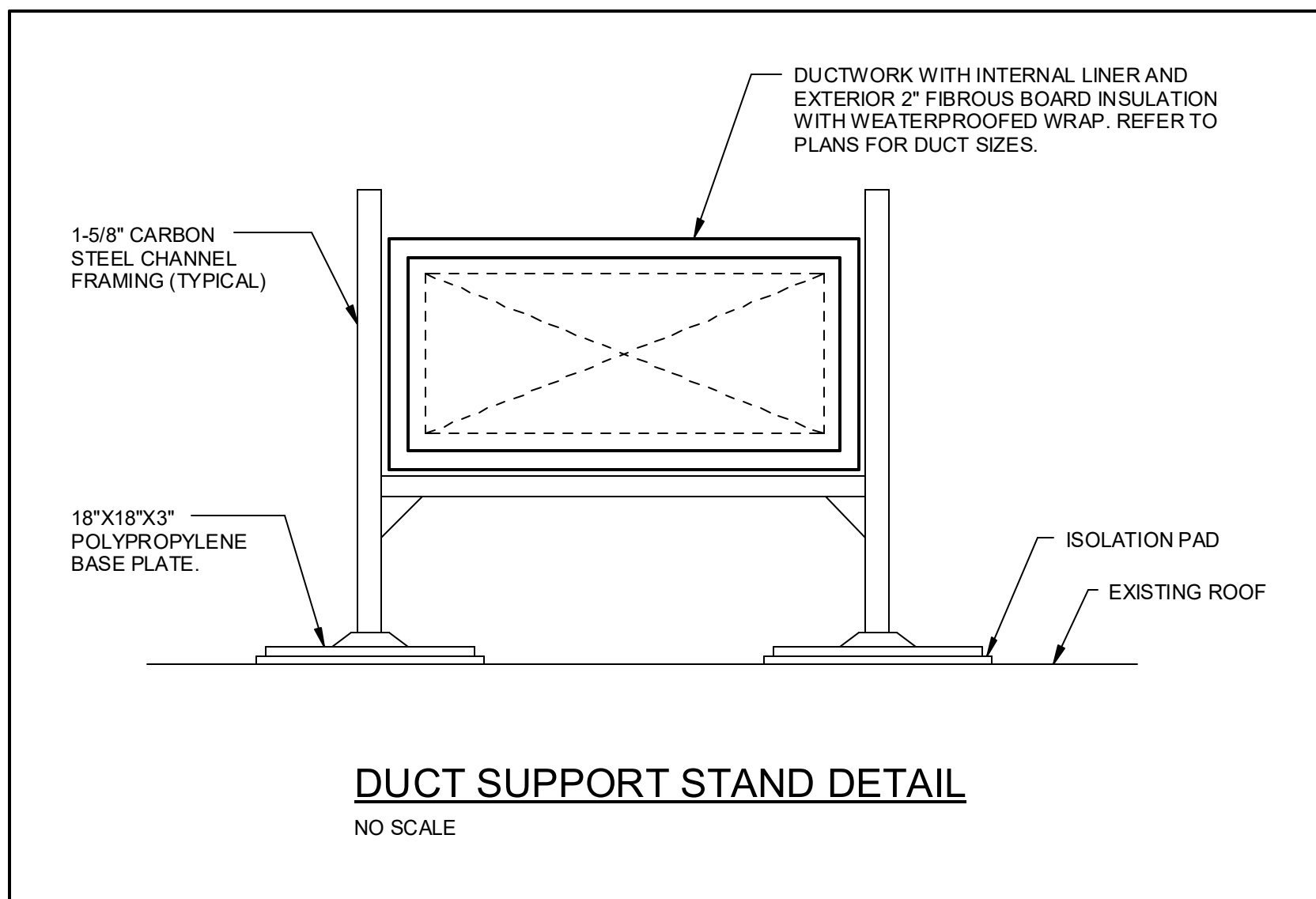
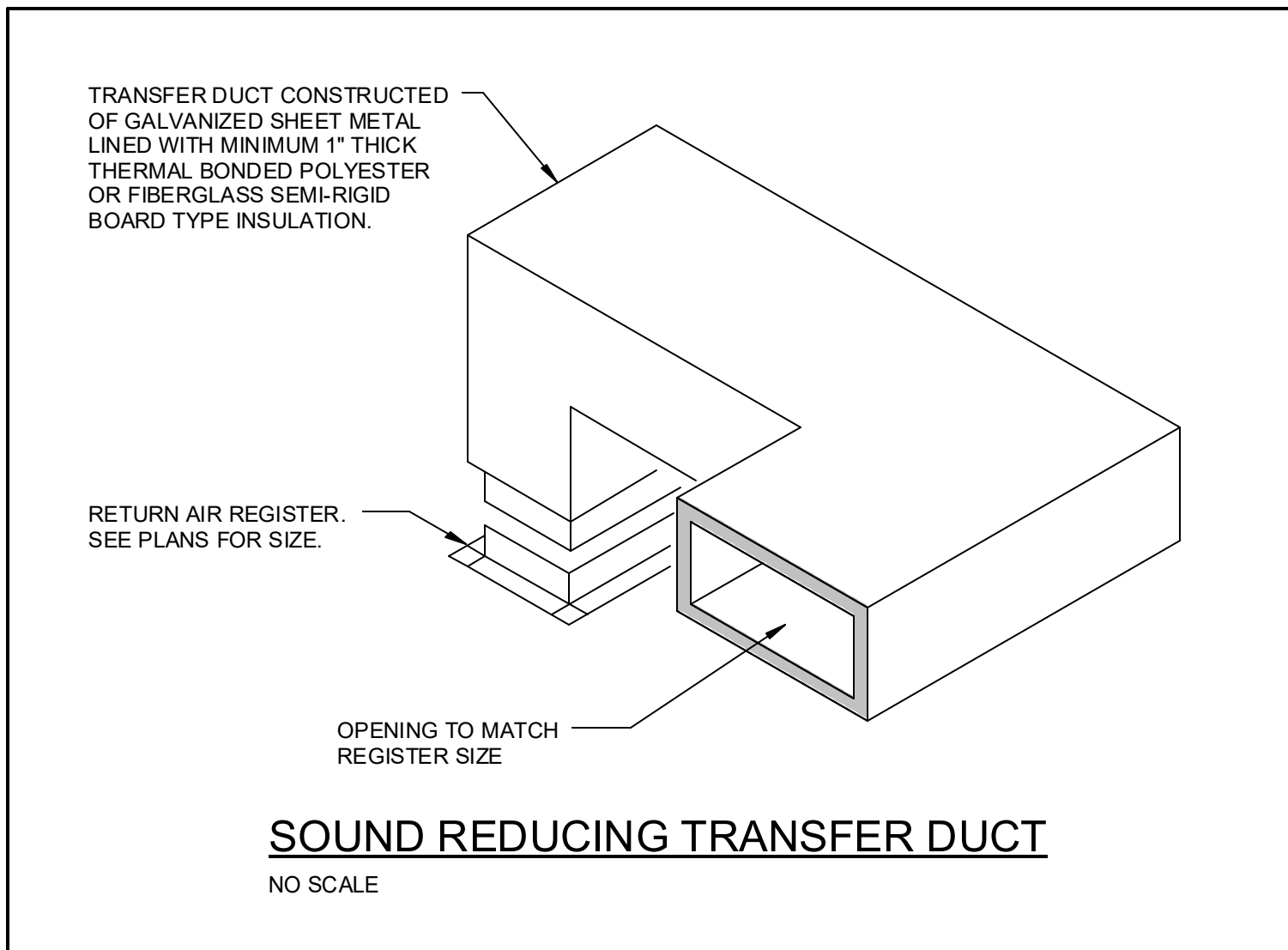
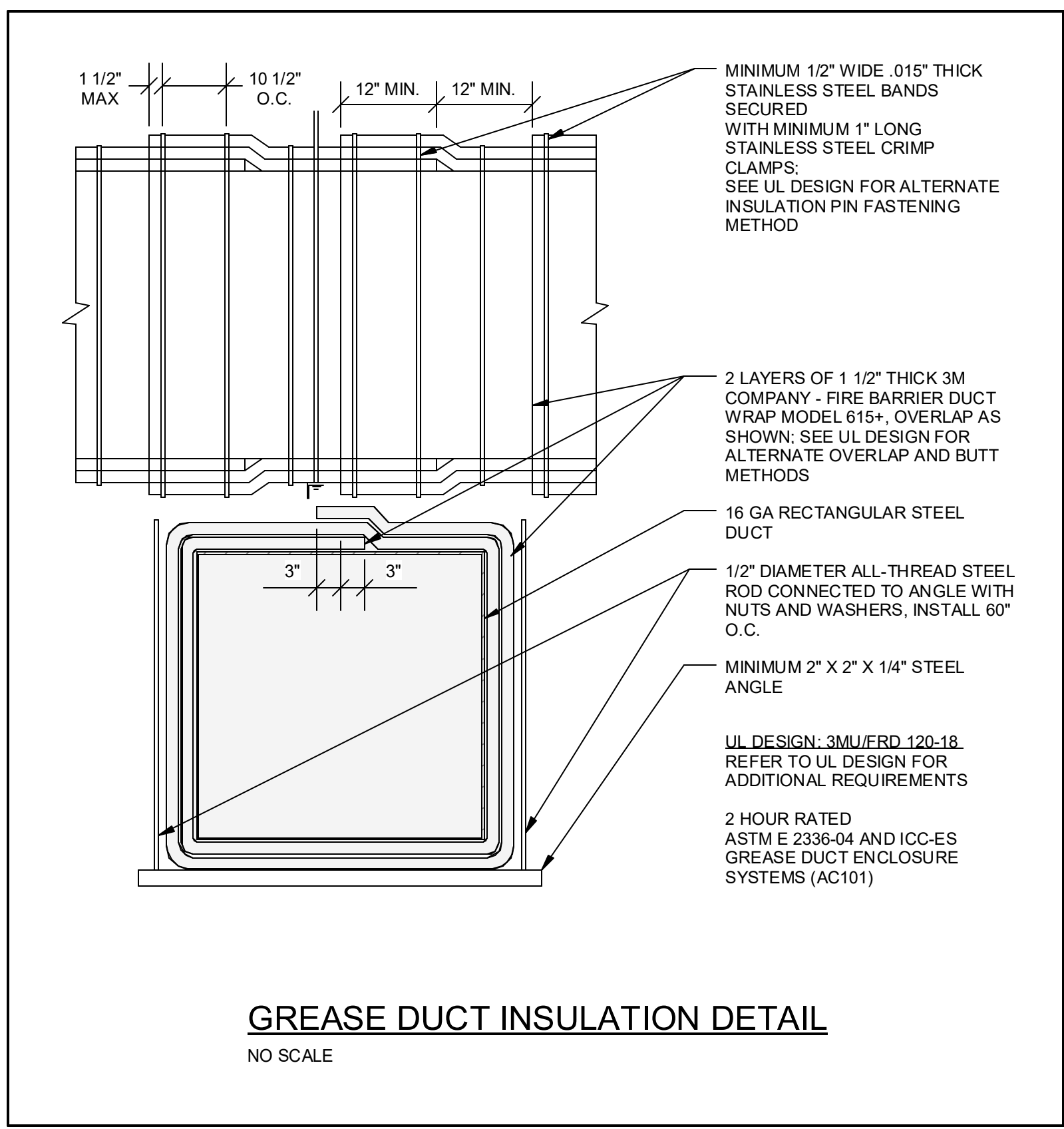
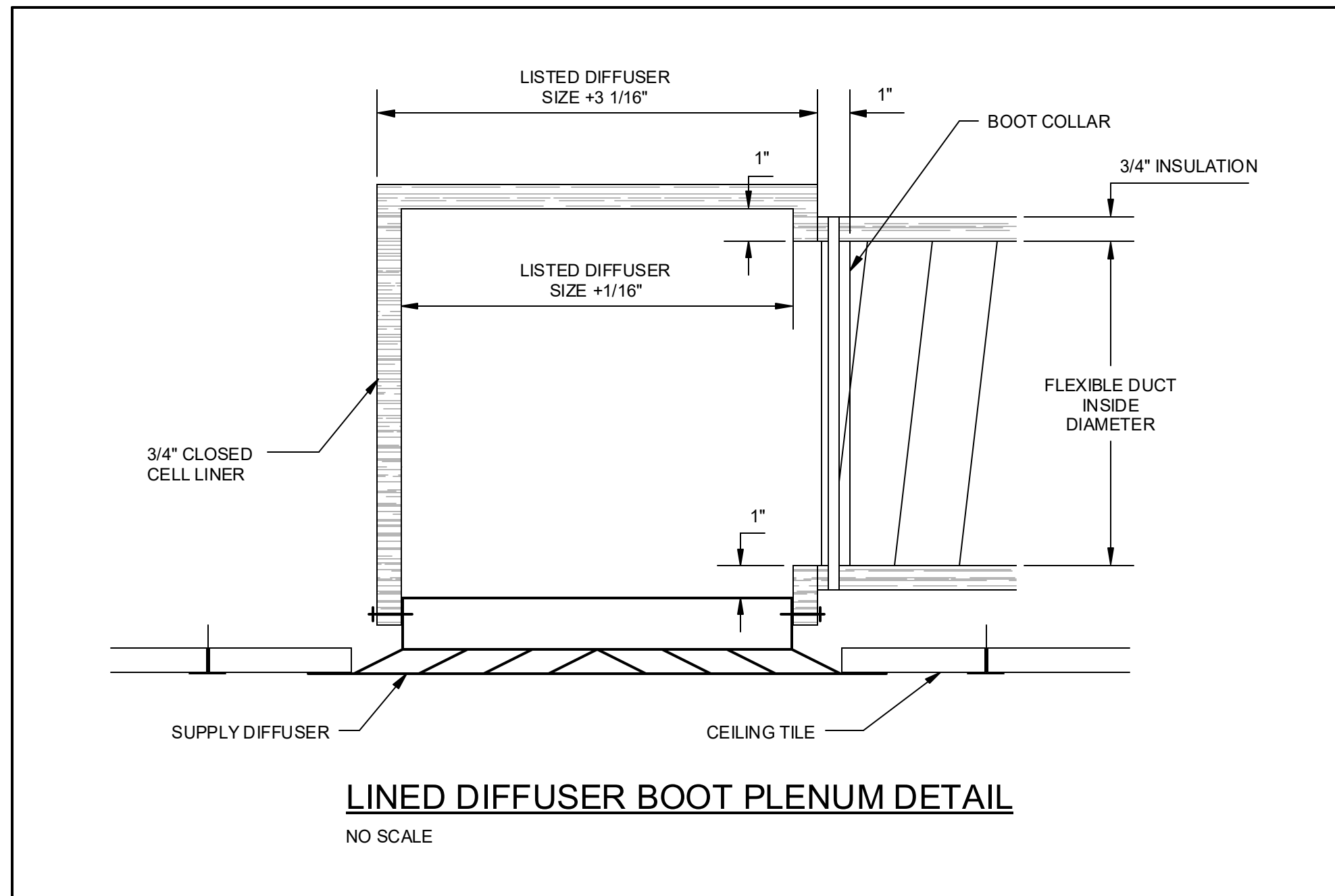
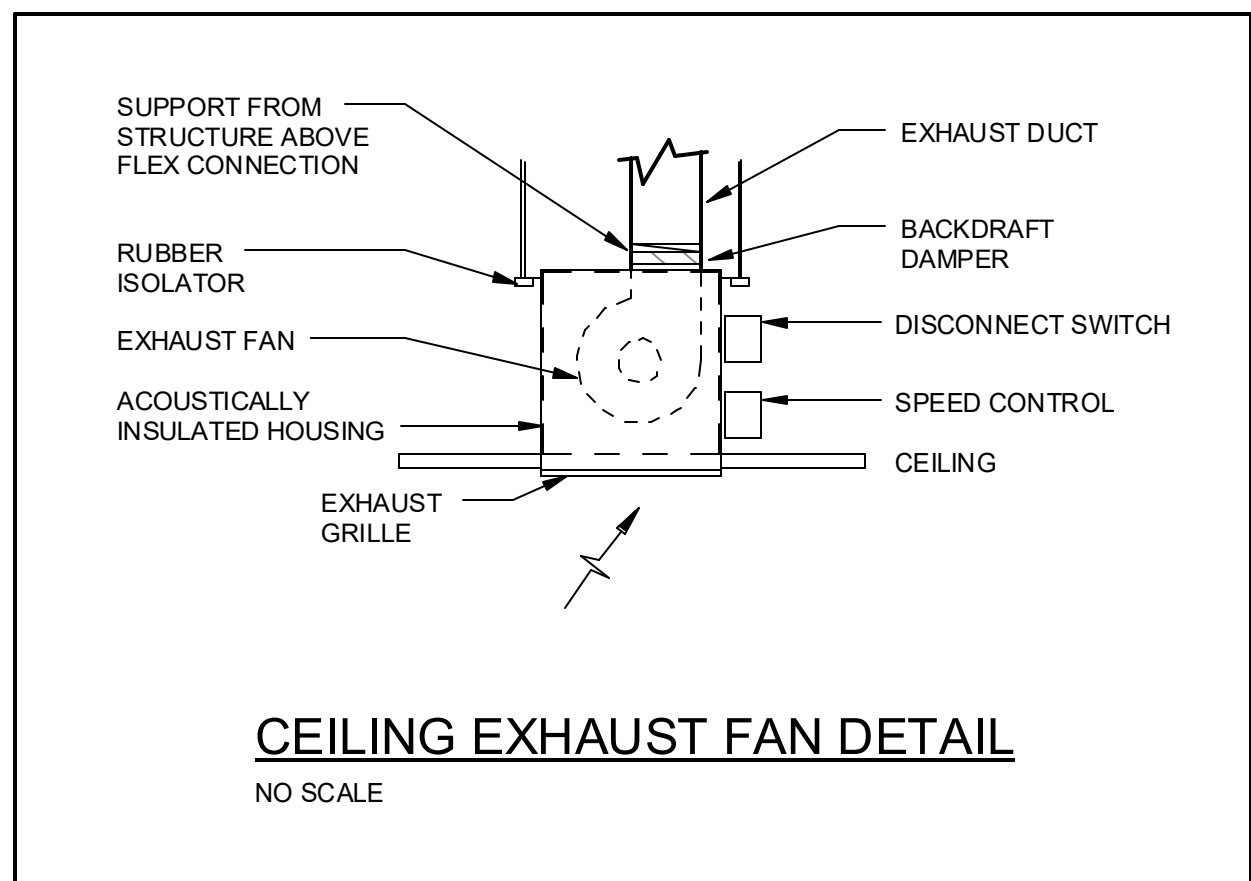
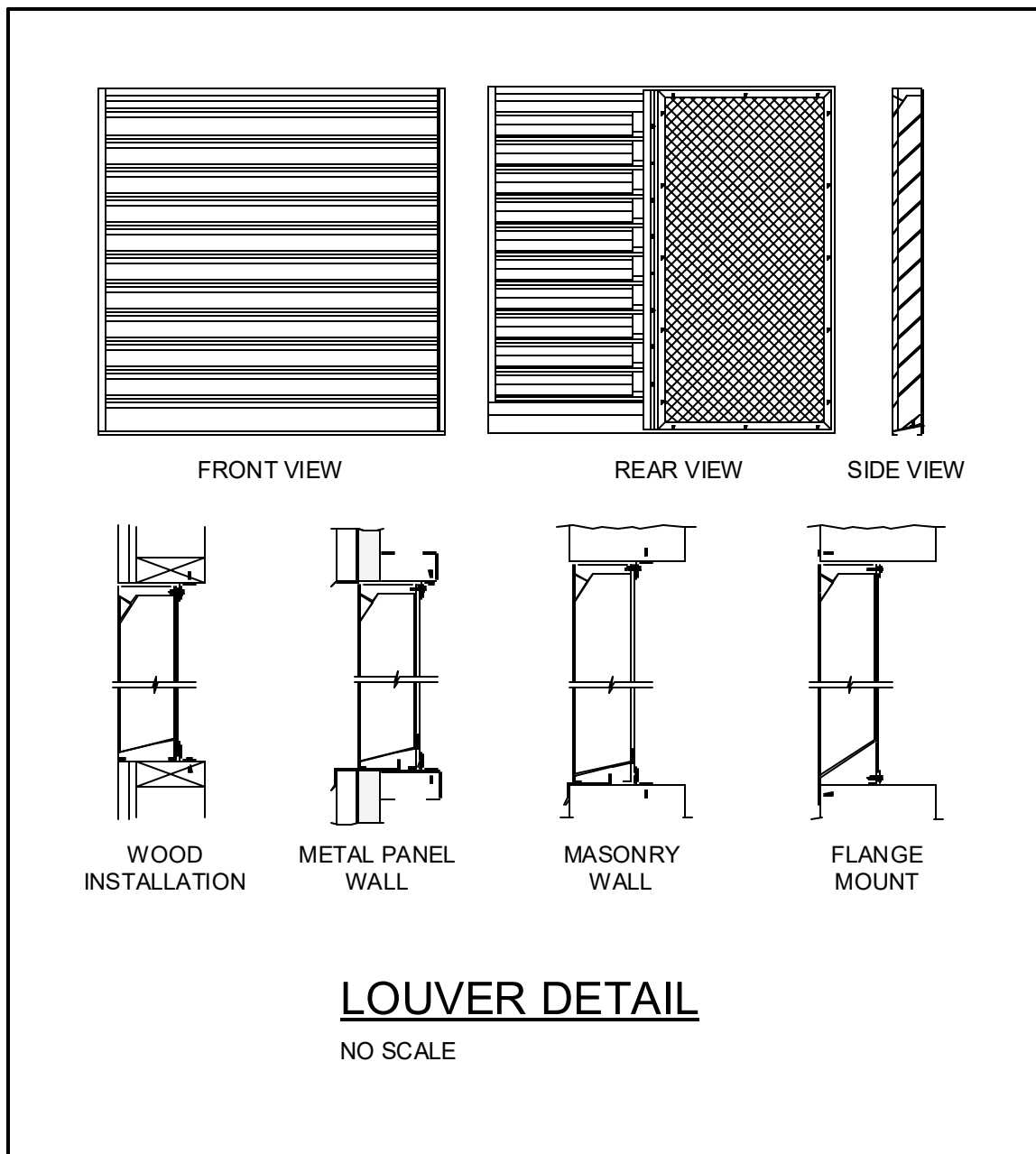
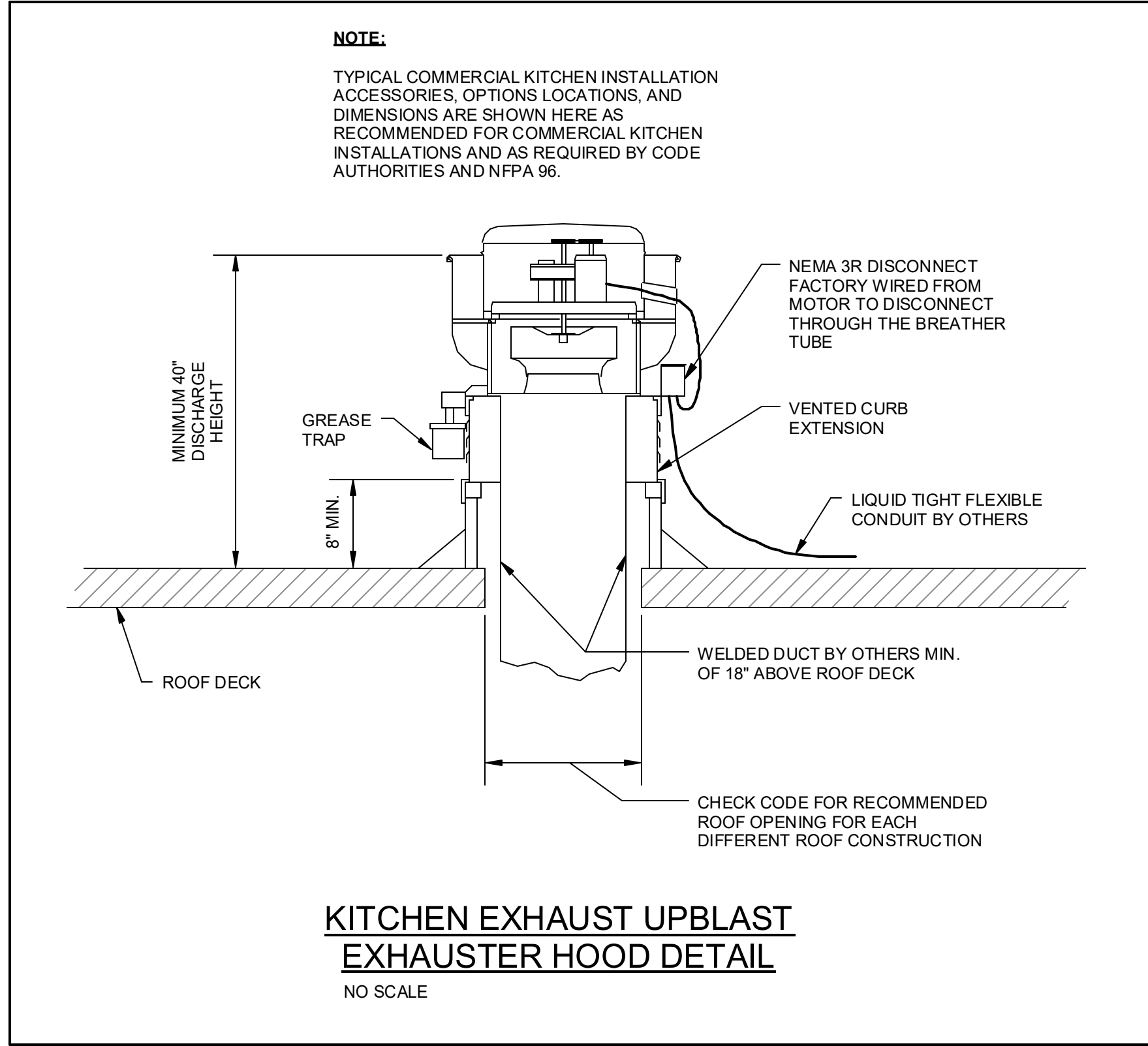
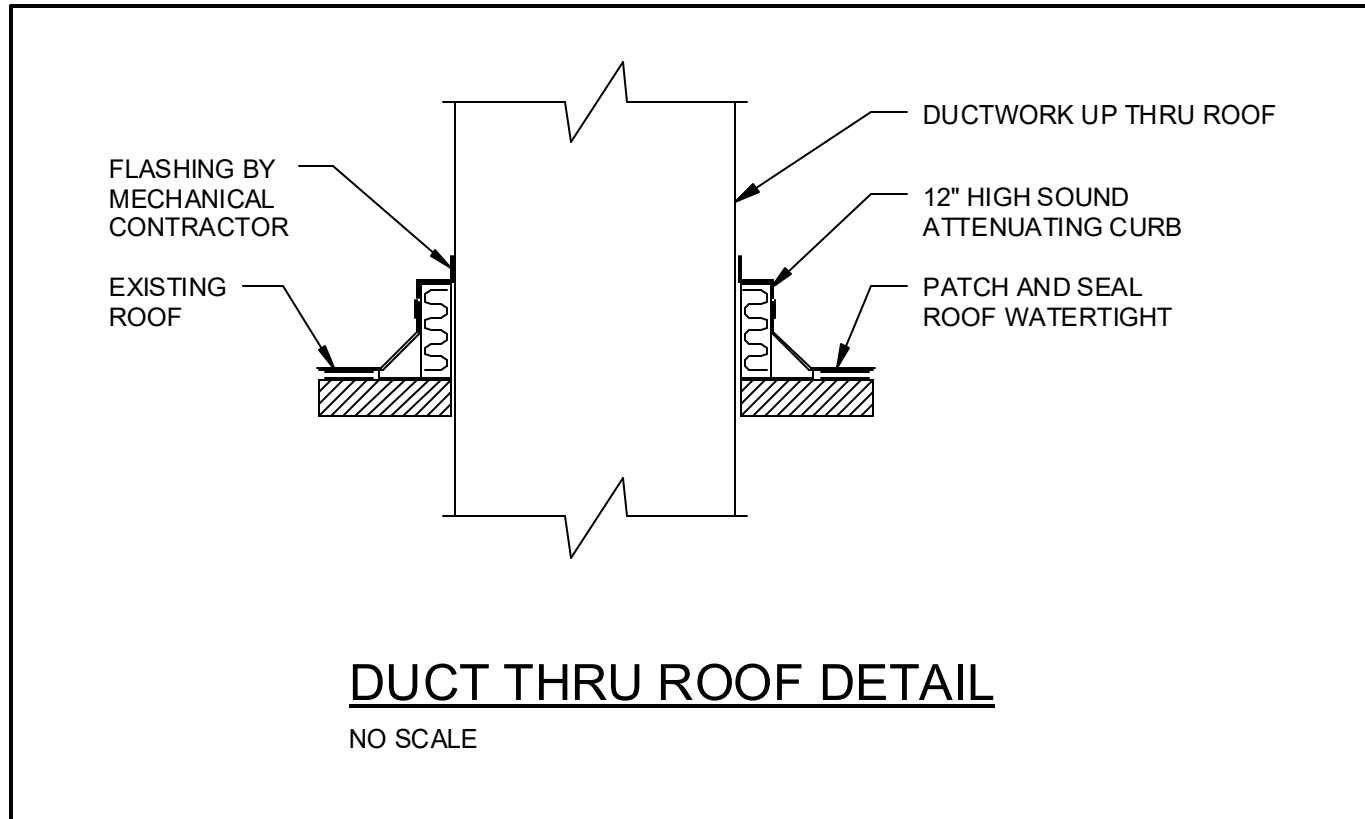
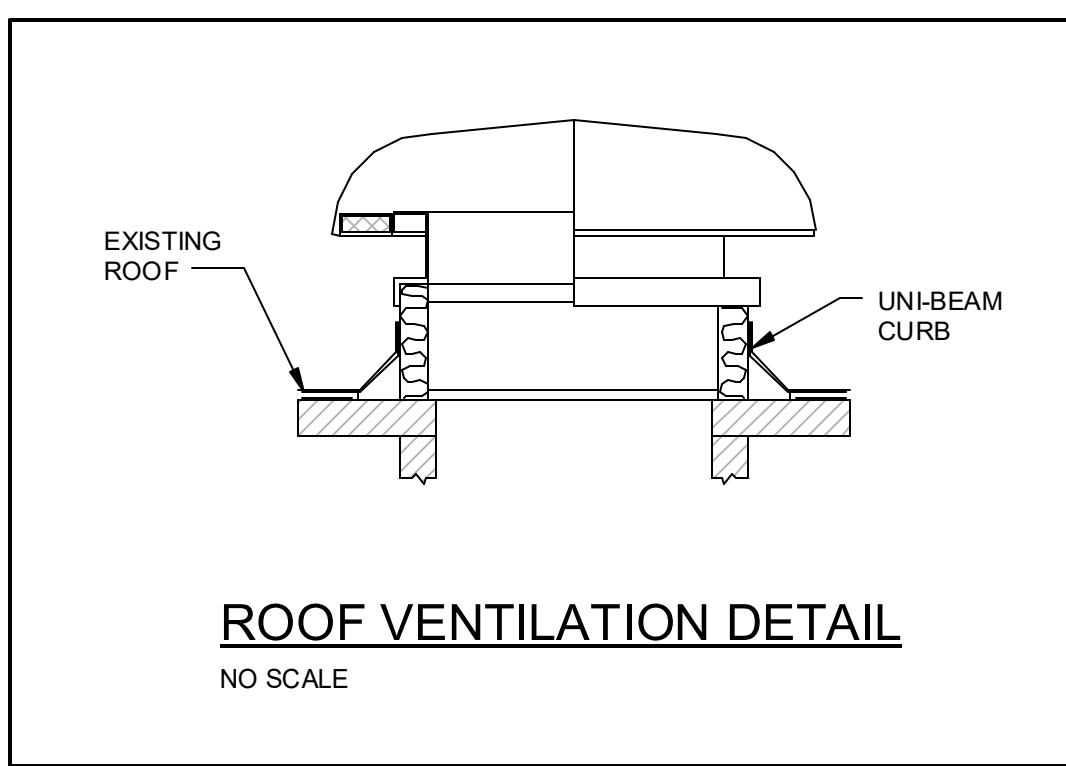
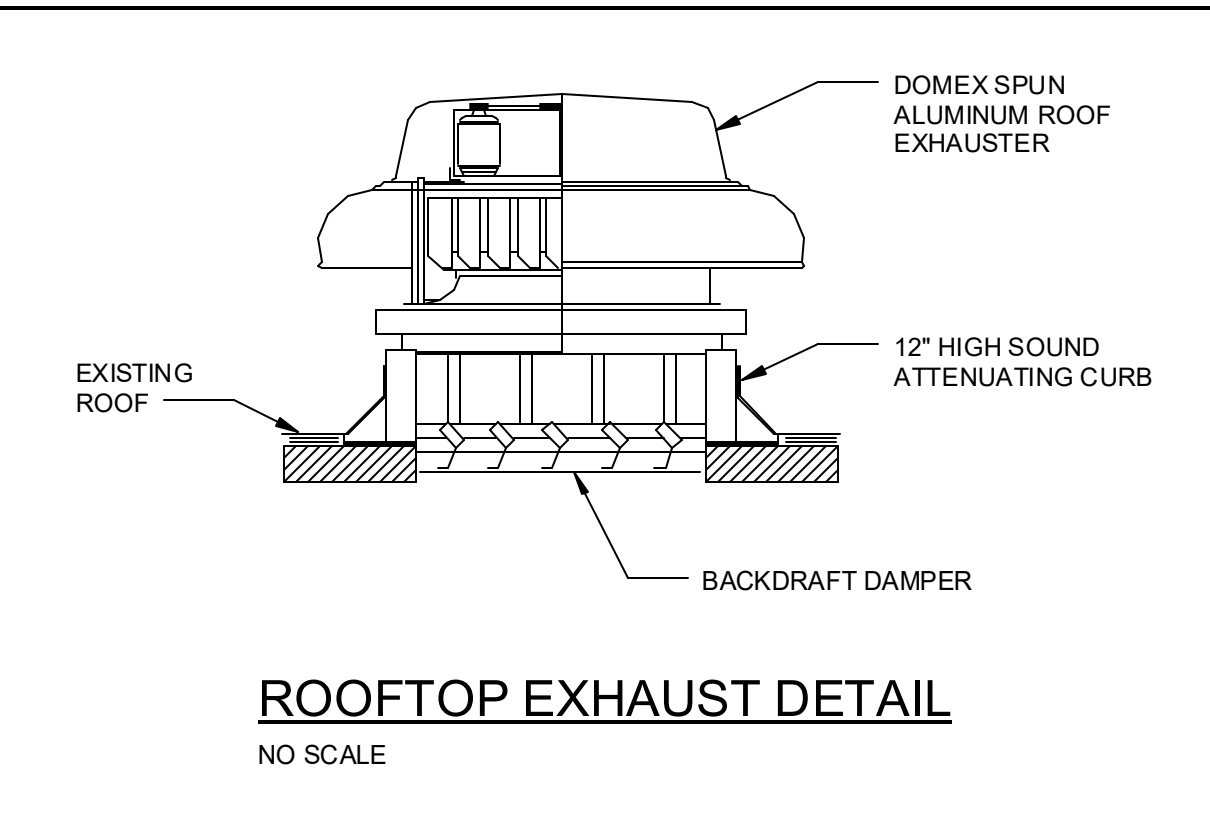
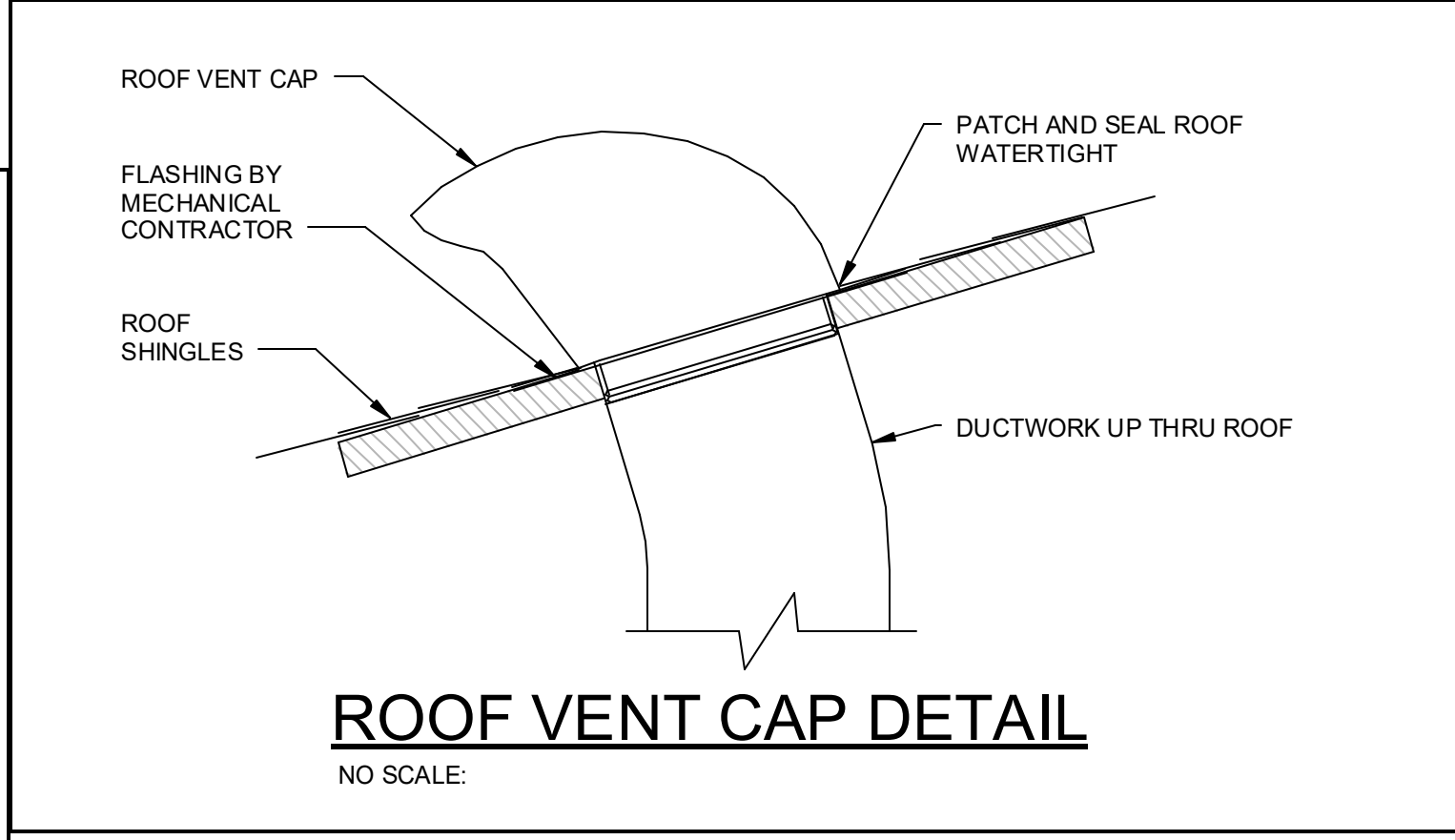
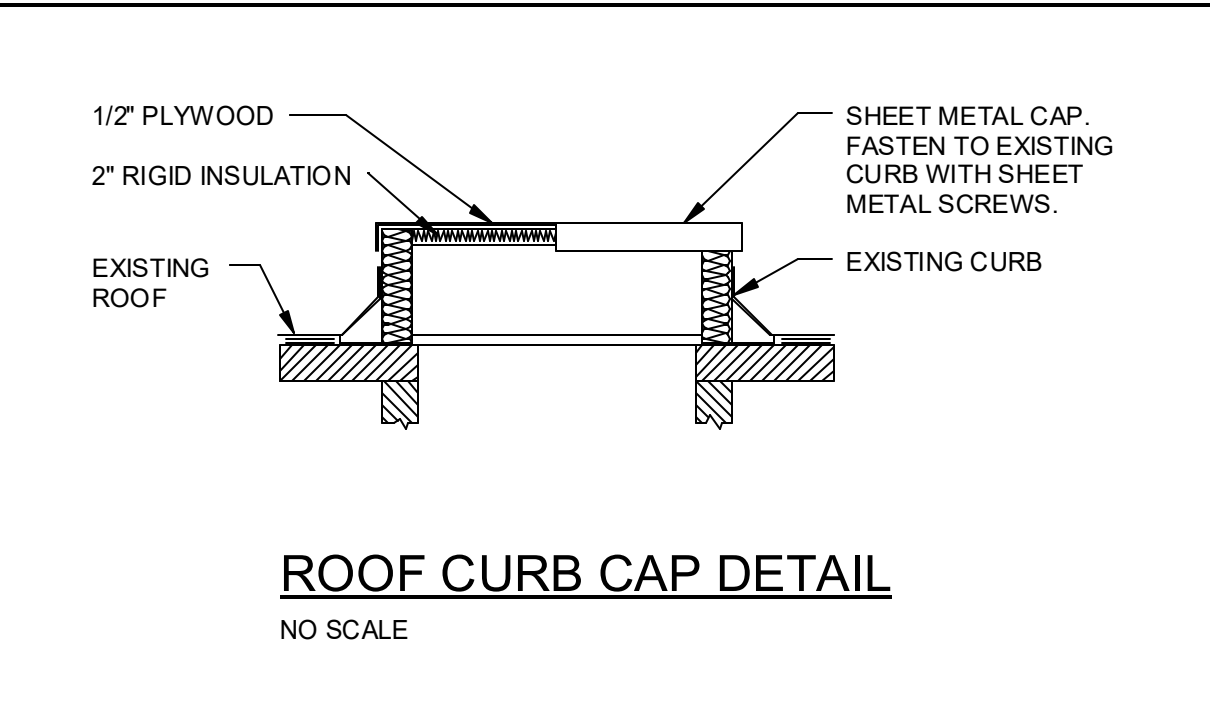
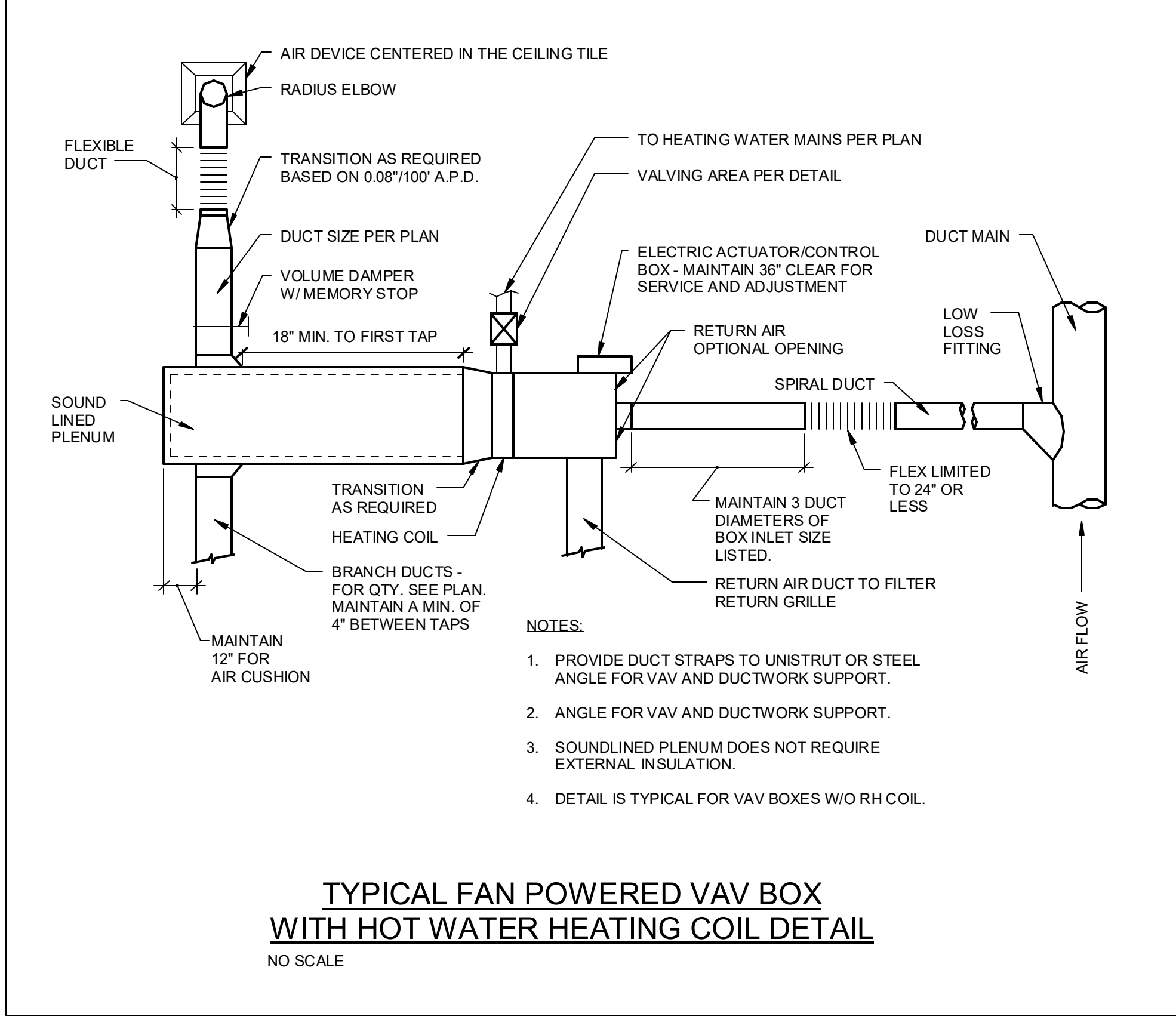
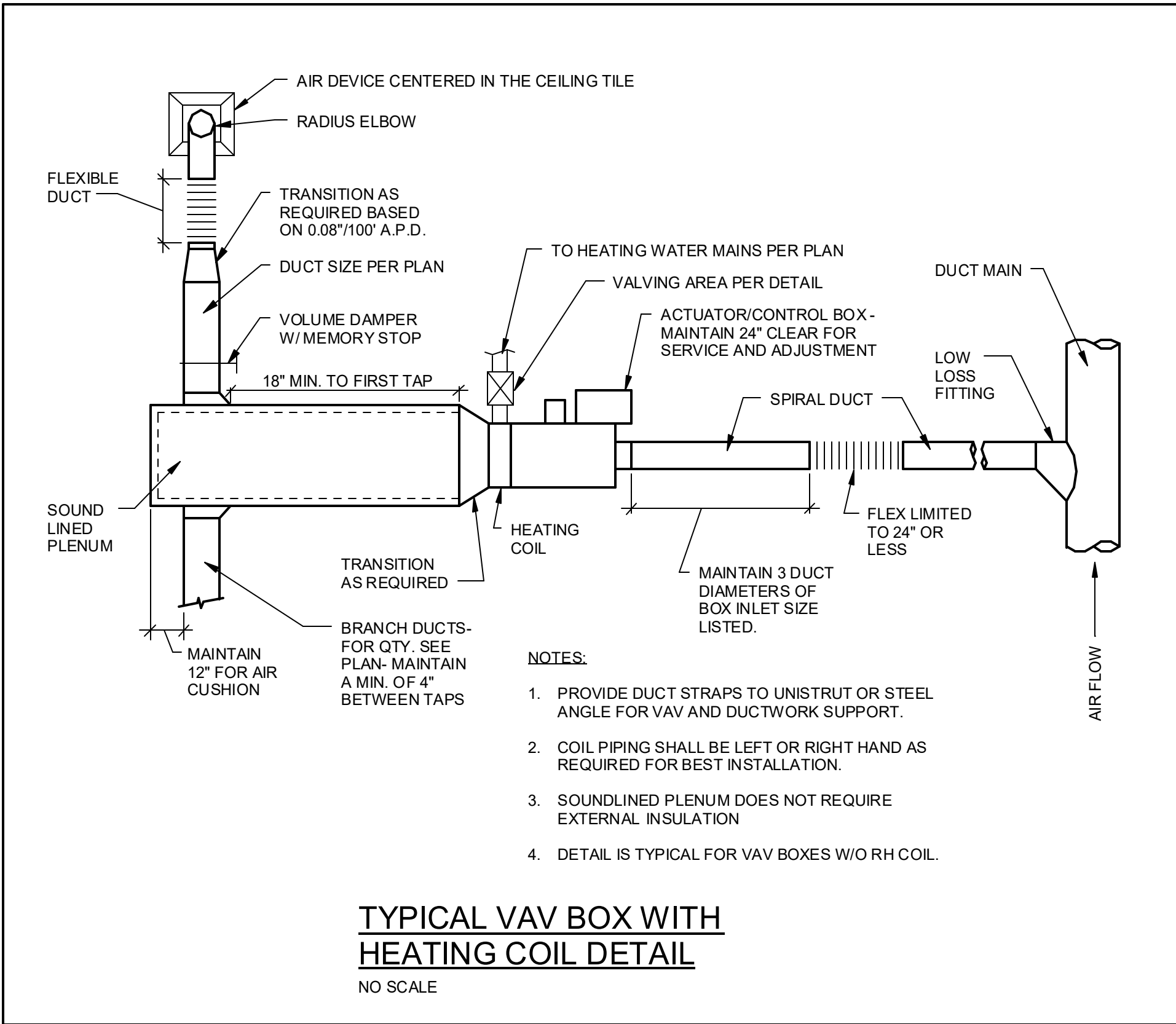
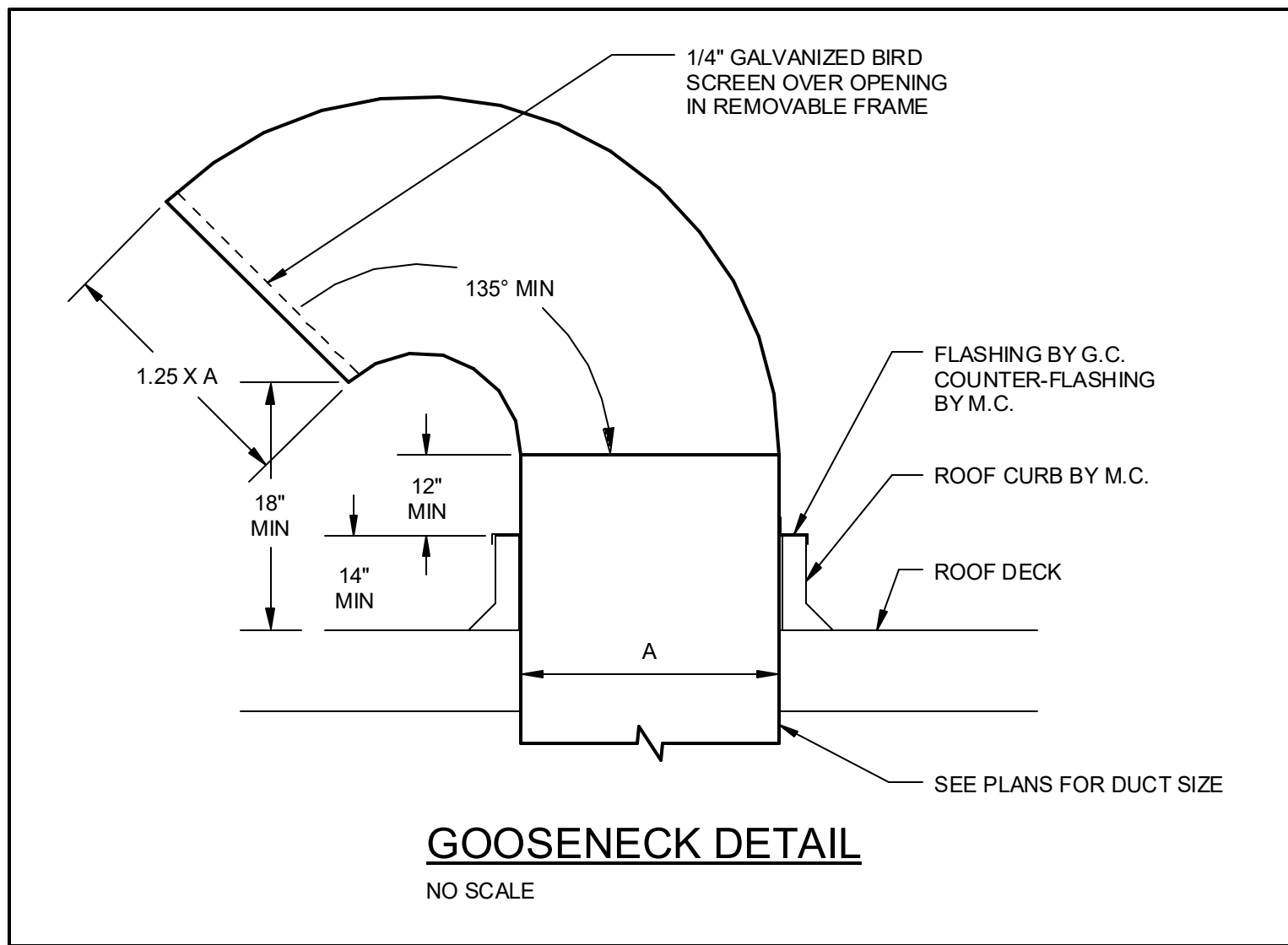
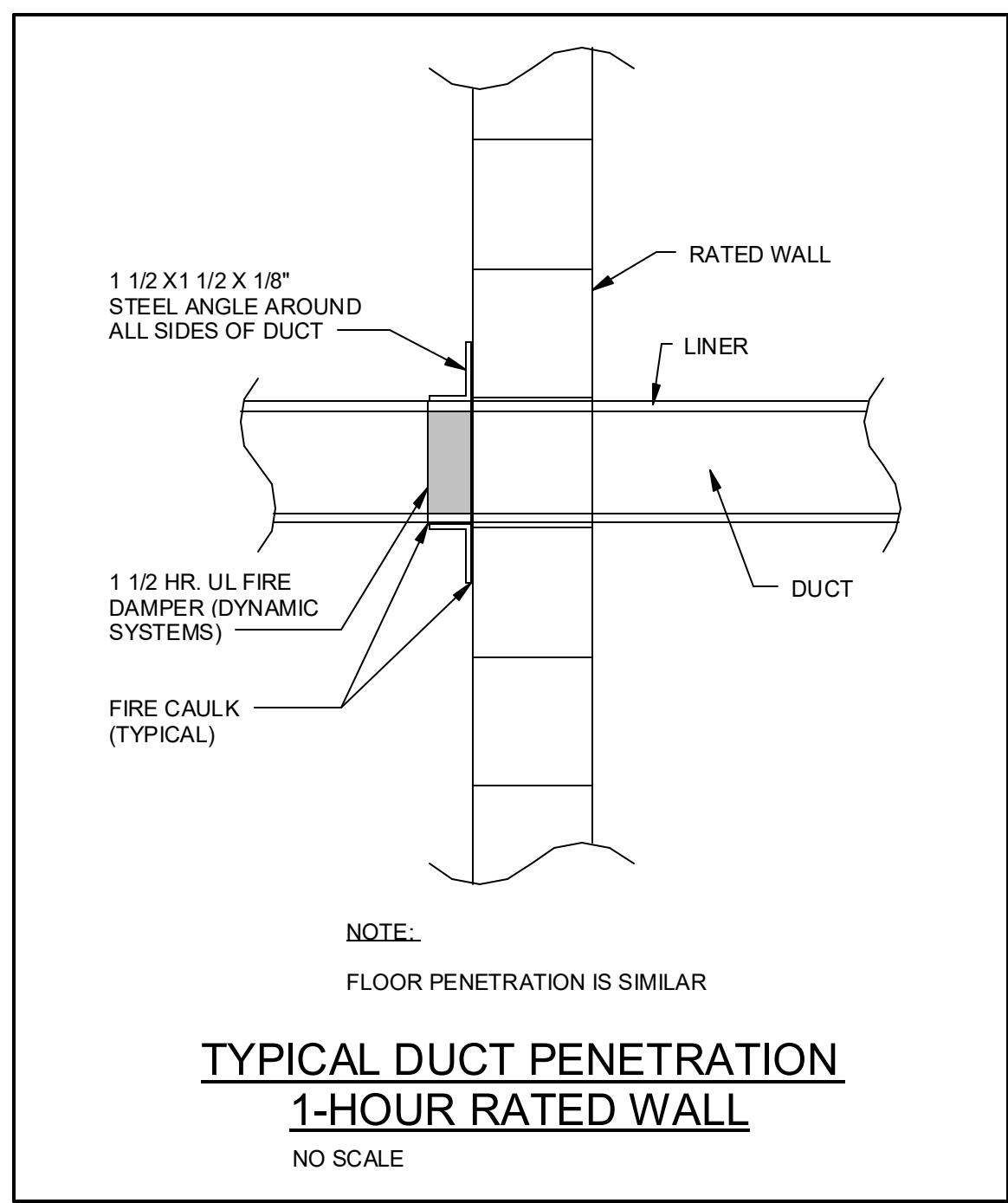
FILENAME
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M6.1



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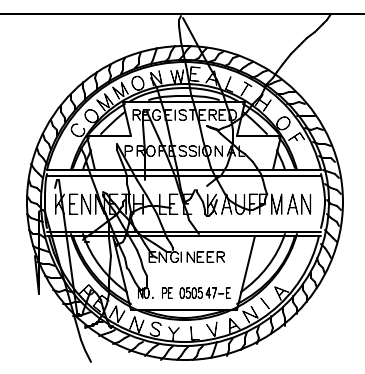
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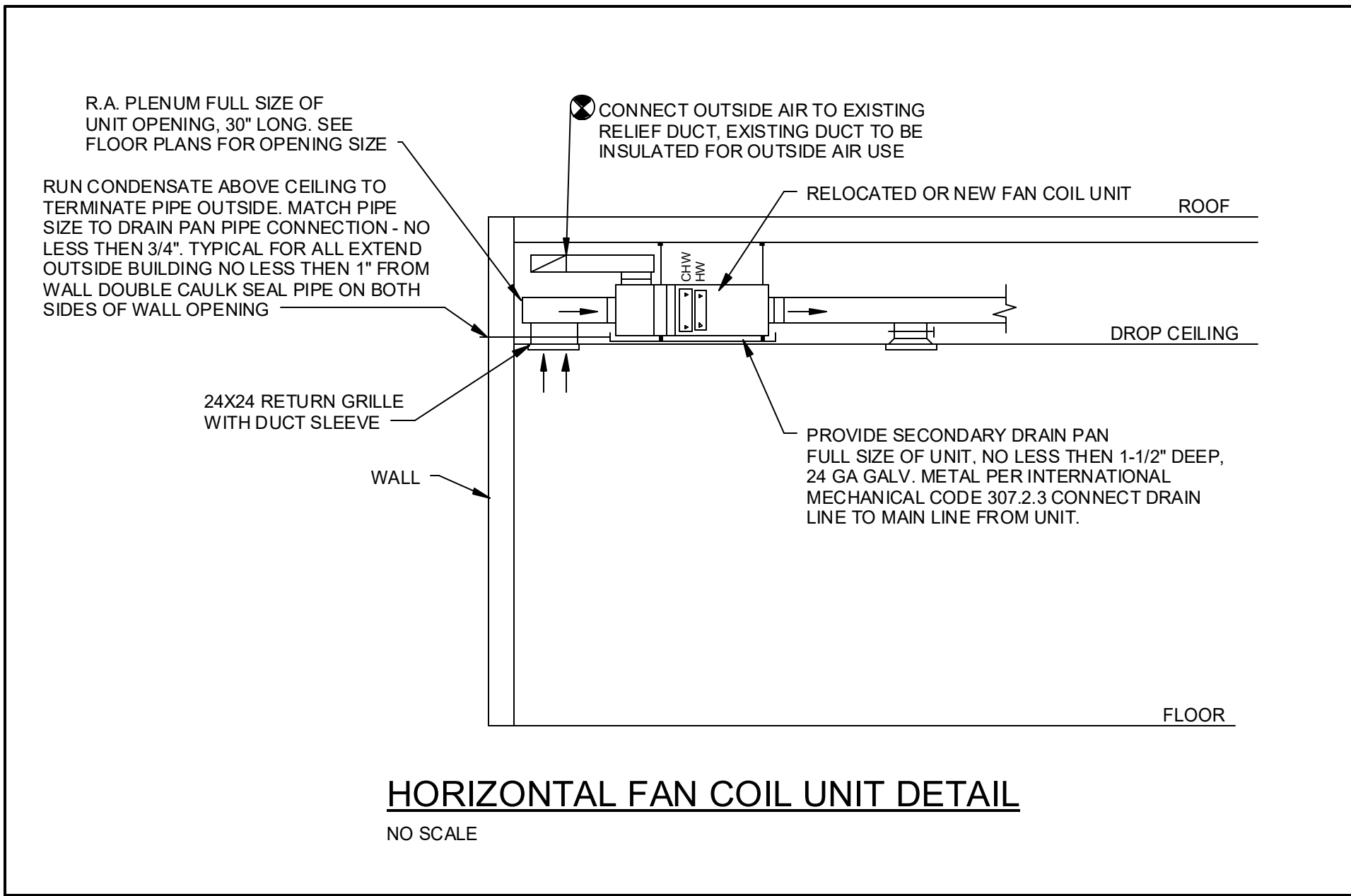
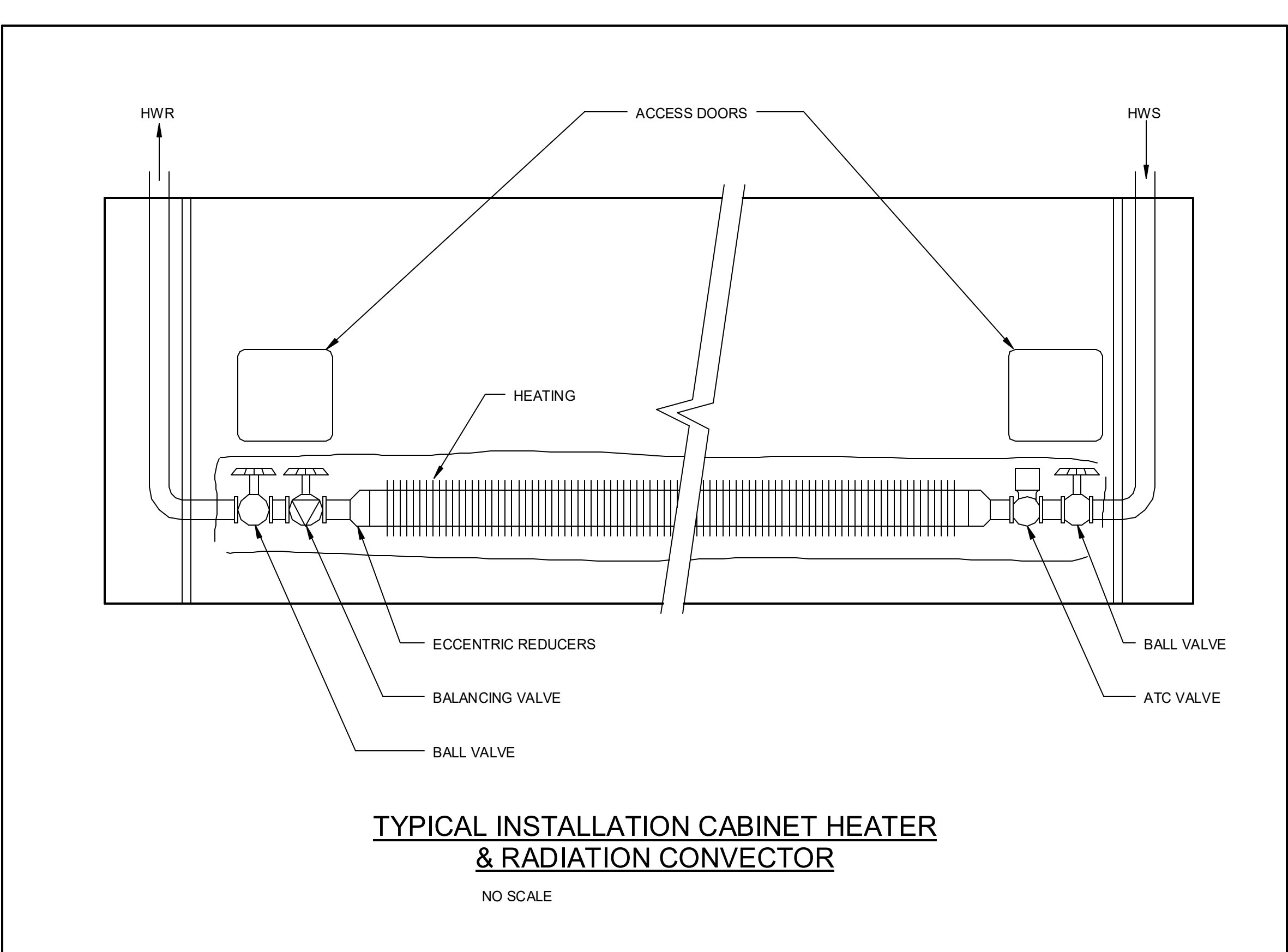
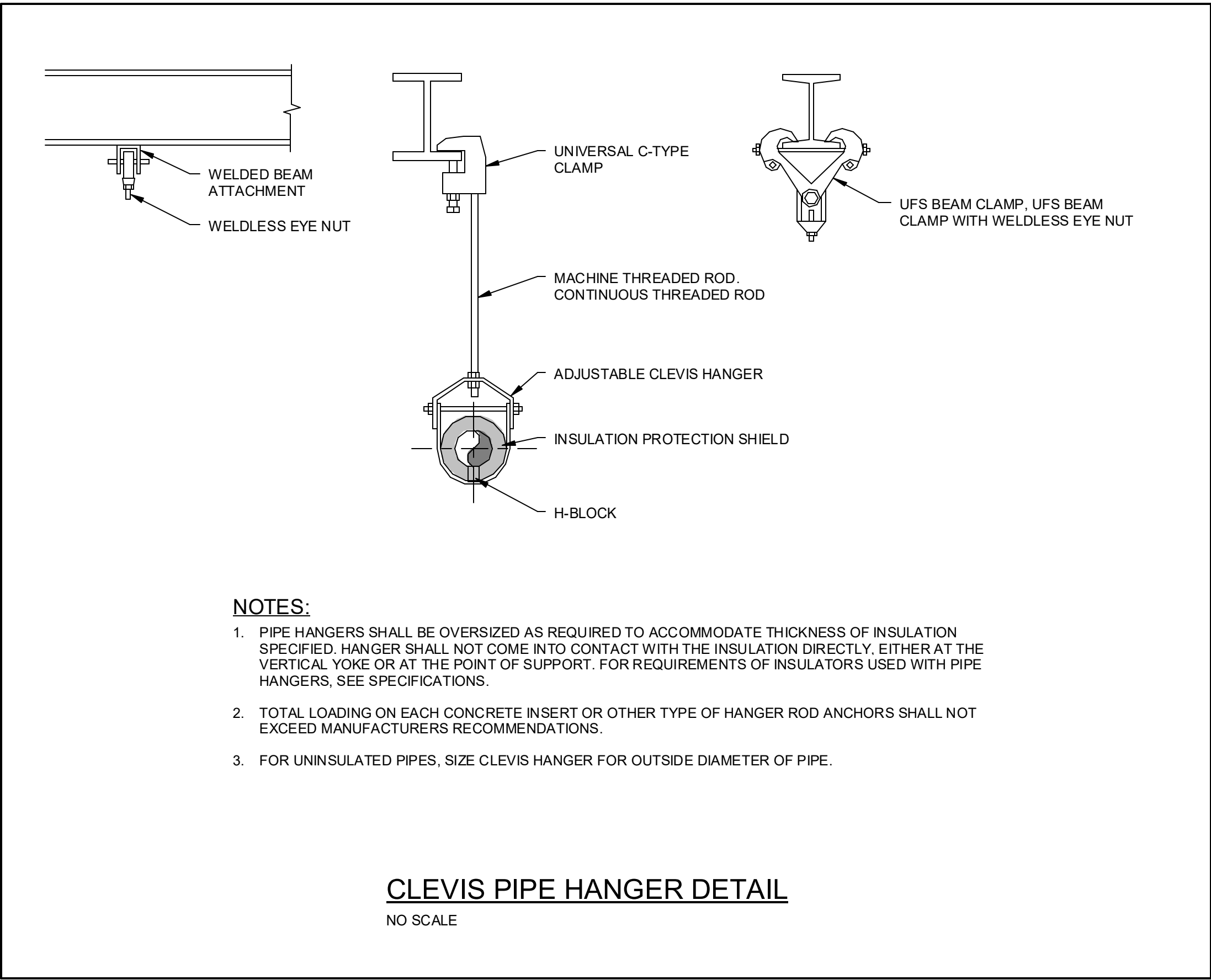
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NO SCALE

FILENAME
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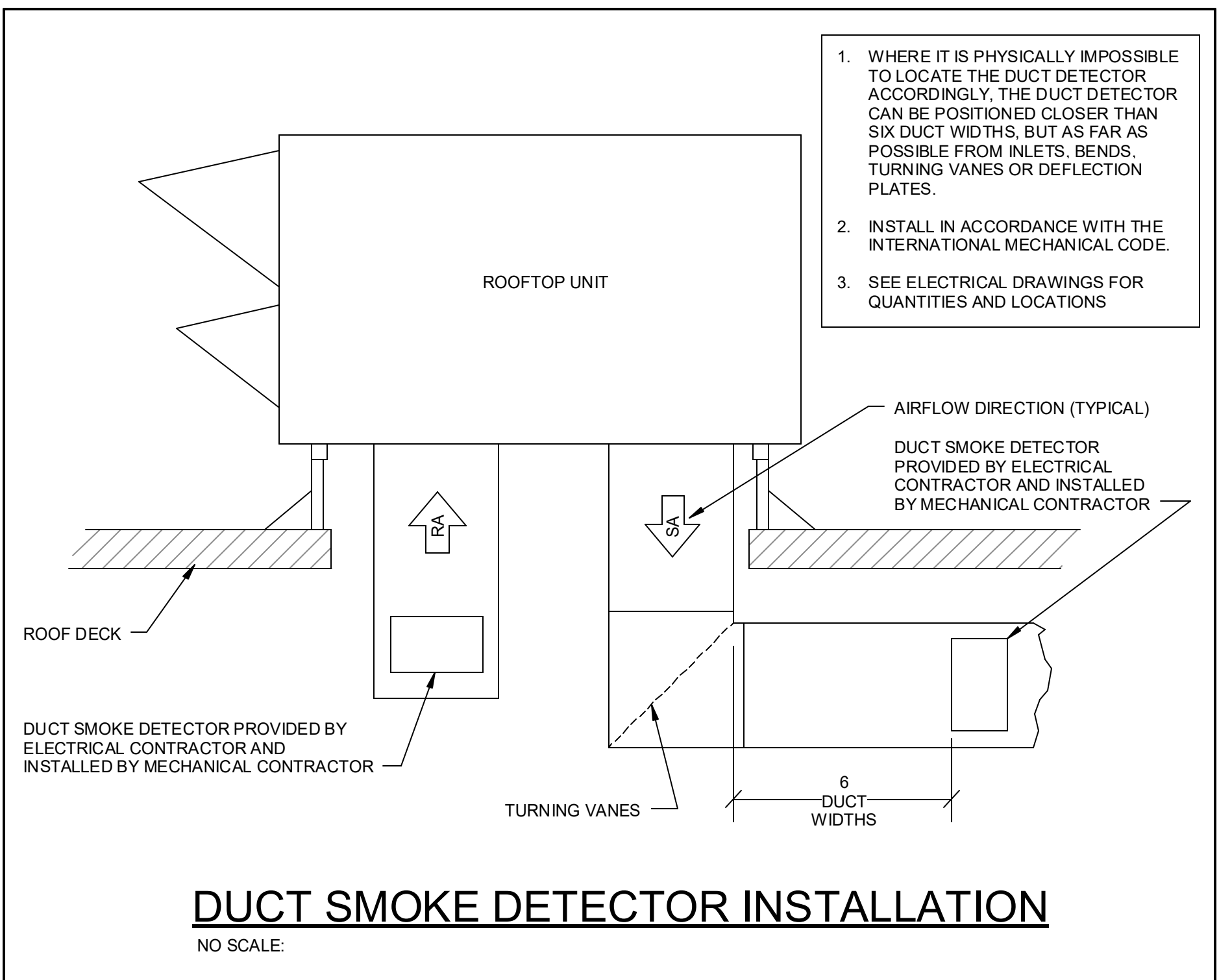
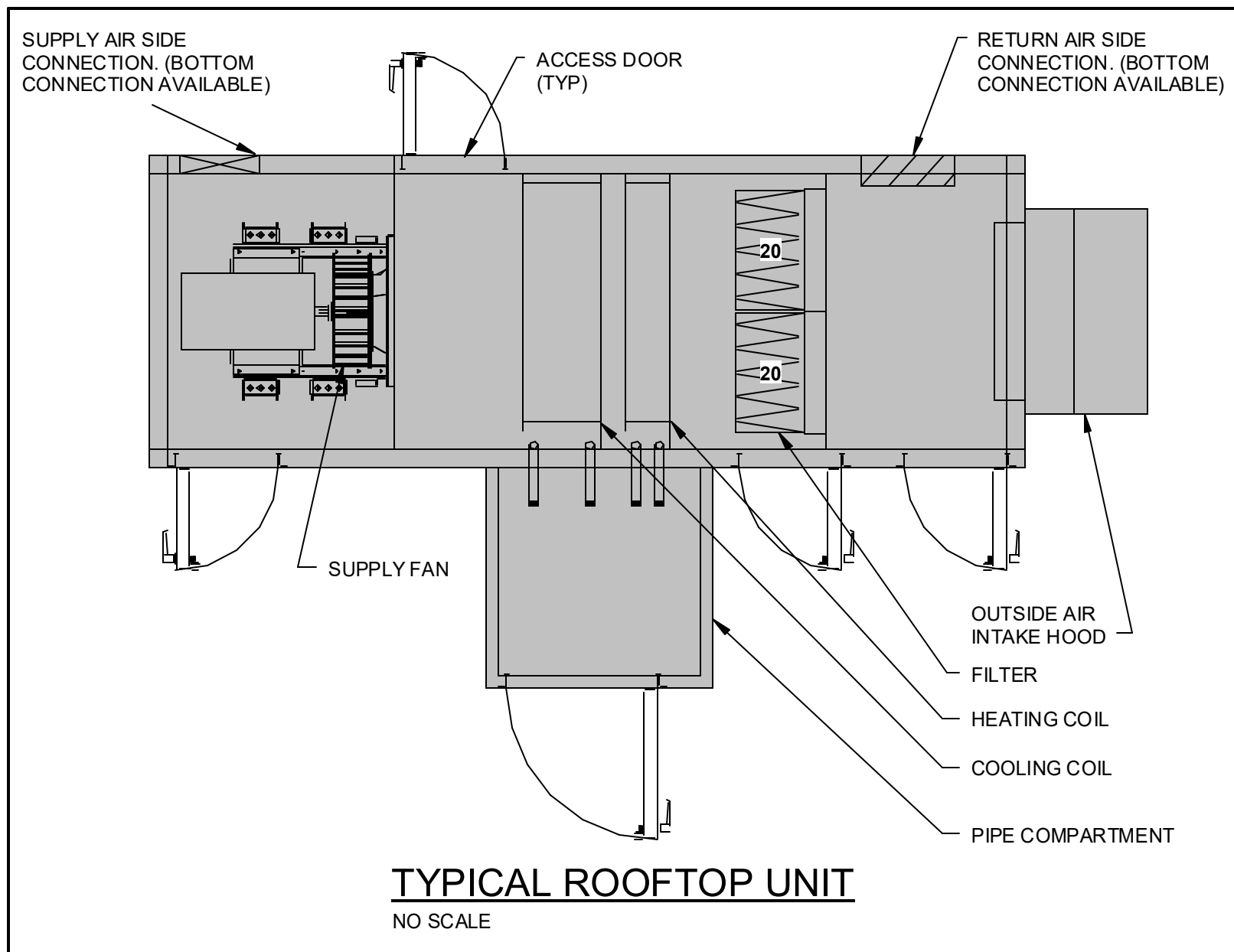
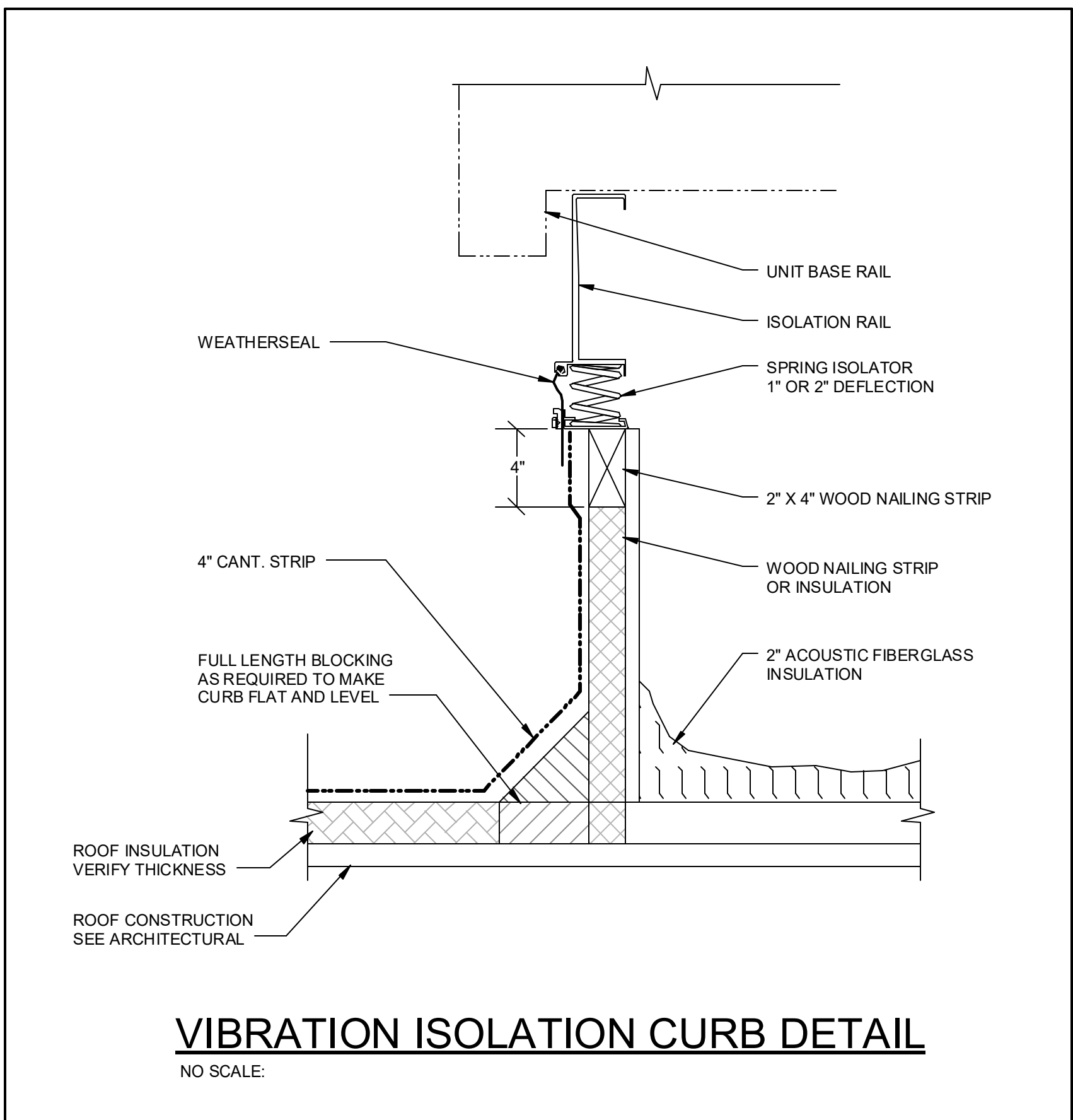
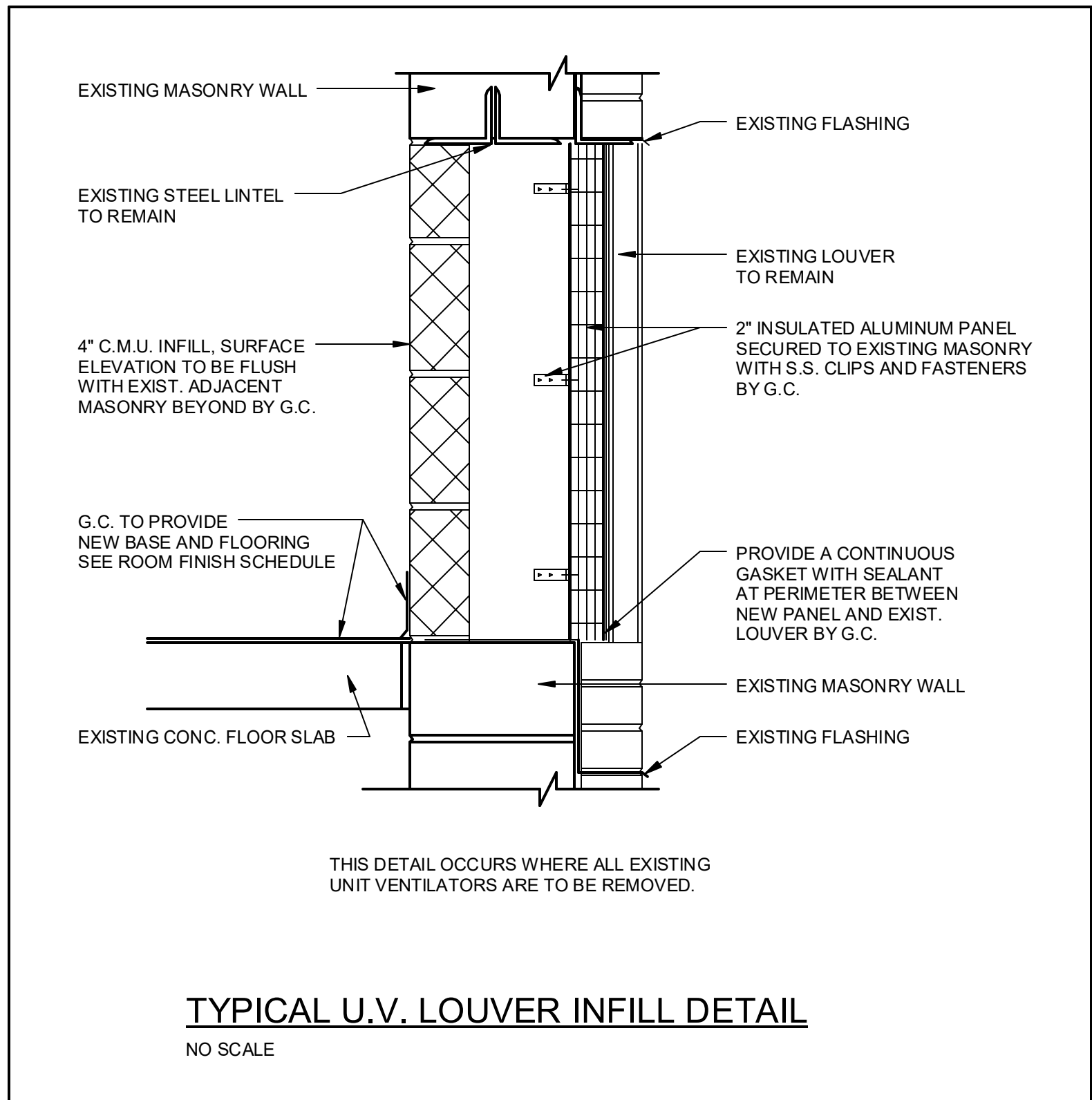
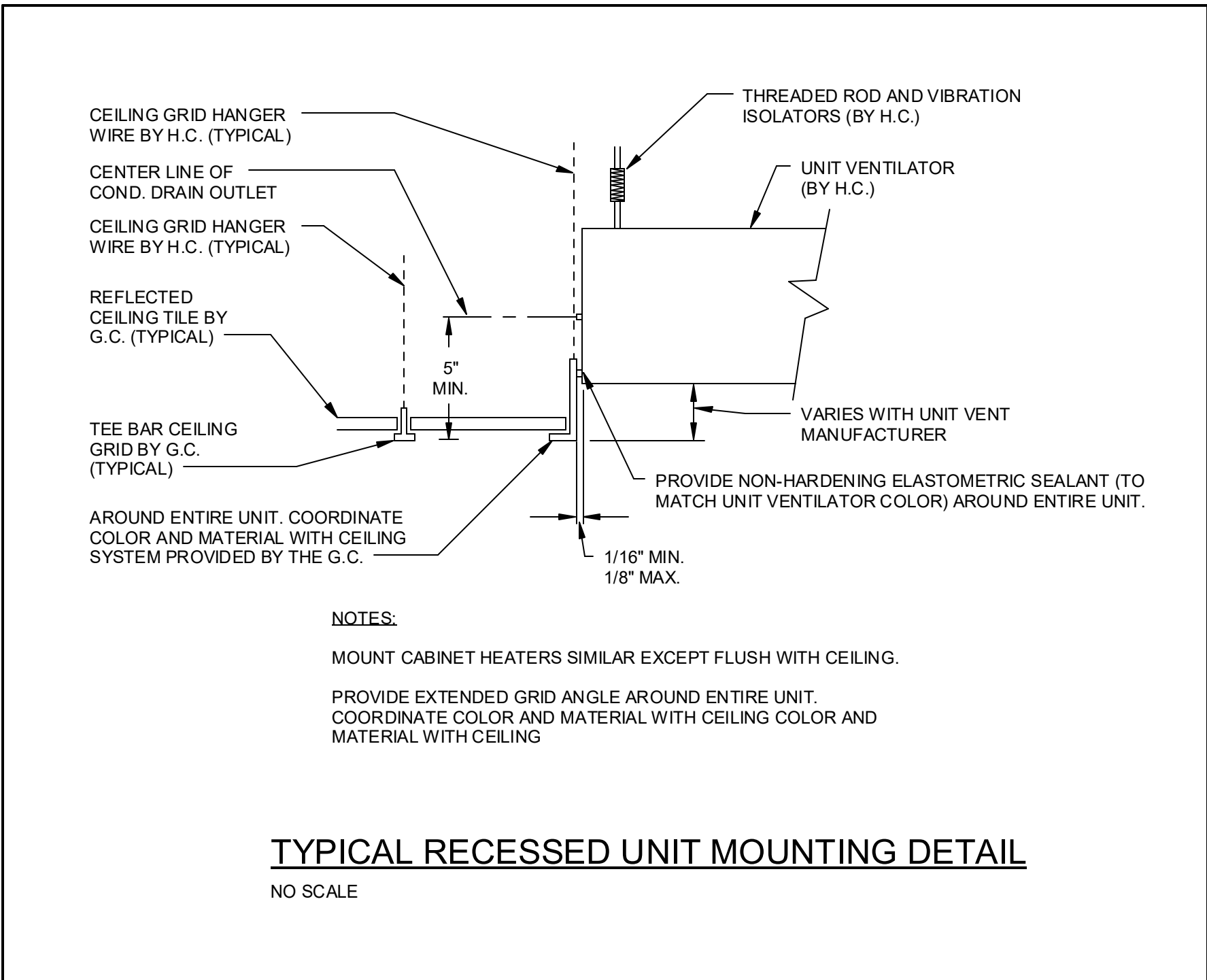
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M6.2



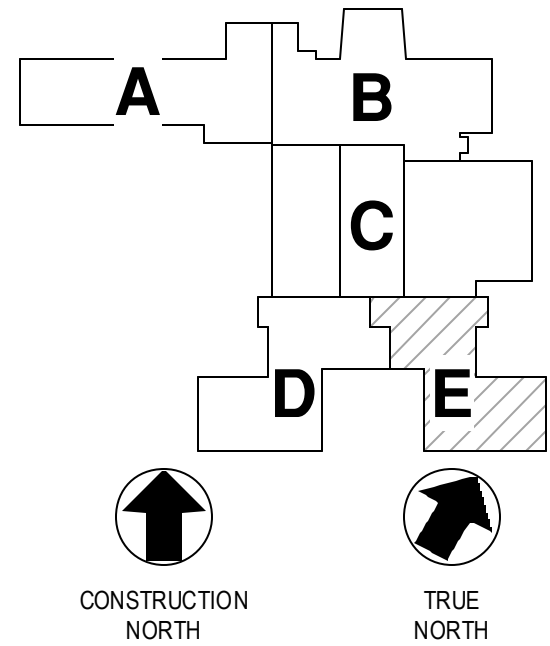
② STMD130 - HORIZONTAL FAN COIL UNIT DETAIL
12" = 1'-0"



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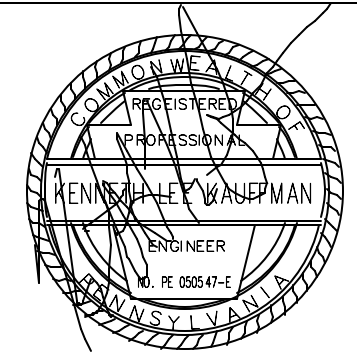
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FILENAME
240466
DATE
MARCH 10, 2025

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M6.3

PLUMBING FIXTURE SCHEDULE											
SYMBOL	DESCRIPTION	WASTE	VENT	HOT	COLD	LOCATION			REMARKS		
CP-1	DOMESTIC CIRCULATION PUMP	-	-	1-1/2"	-	-			120 DEGREE HWR		
CP-2	DOMESTIC CIRCULATION PUMP	-	-	1-1/4"	-	-			140 DEGREE HWR		
CT-1	CLAY TRAP SOLIDS INTERCEPTOR	2"	1-1/2"	-	-	ART A118			-		
DWBP-1	DOMESTIC WATER BOOSTER PUMP	-	-	-	4"	PLUMBING E115			-		
DWH-1	DOMESTIC WATER HEATER	-	-	3"	3"	-			-		
ET-1	EXPANSION TANK	-	-	-	-	-			-		
EWC-1	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	-	1/2"	SEE PLANS			BI-LEVEL, ADA		
FD-1	FLOOR DRAIN	SEE PLANS	SEE PLANS	-	-	SEE PLANS			INSTALL WITH TRAP SEAL		
FD-2	FLOOR DRAIN	SEE PLANS	SEE PLANS	-	-	SEE PLANS			MEDIUM DUTY, INSTALL WITH TRAP SEAL		
FD-3	FLOOR DRAIN	SEE PLANS	SEE PLANS	-	-	KITCHEN			MEDIUM DUTY, STAINLESS STEEL, INSTALL WITH TRAP SEAL		
FS-1	FLOOR SINK	SEE PLANS	SEE PLANS	-	-	KITCHEN			-		
GI-1	GREASE INTERCEPTOR	-	-	-	-	-			EXTERIOR, SEE PLANS		
HB-1	HOSE BIBB	-	-	-	3/4"	-			INTERIOR, BOX WITH COVER, COLD		
HS-1	HAND SINK	1-1/2"	1-1/2"	1/2"	1/2"	-			ADA		
IMB-1	ICE MAKER BOX	-	-	-	1/2"	-			-		
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	-			ADA, WALL HUNG		
LV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	-			WALL HUNG, 2 STATION		
MB-1	MOP BASIN	2"	1-1/2"	1/2"	1/2"	-			-		
MV-1	LAVATORY MIXING VALVE	-	-	-	-	-			-		
ORD-1	OVERFLOW ROOF DRAIN	SEE PLANS	-	-	-	-			-		
OSS-1	OVERFLOW STORM SPOUT	-	-	-	-	-			-		
PST-1	PRESSURE TANK	SEE PLANS	-	-	1-1/2	-			-		
RD-1	ROOF DRAIN	SEE PLANS	-	-	-	-			-		
RH-1	ROOF HYDRANT	1-1/2"	-	-	3/4"	-			-		
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	-			ADA		
SK-1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	-			ADA		
SK-2	SINK	1-1/2"	1-1/2"	1/2"	1/2"	-			DOUBLE BOWL		
SK-3	SINK	1-1/2"	1-1/2"	1/2"	1/2"	ART A118			SINK INTEGRAL W/ COUNTERTOP BY G.C.		
SK-4	SINK	1-1/2"	1-1/2"	1/2"	1/2"	ART A118			ADA, SINK INTEGRAL W/ COUNTERTOP BY G.C.		
UR-1	URINAL	2"	1-1/2"	-	3/4"	-			ADA, WALL HUNG		
UR-2	URINAL	2"	1-1/2"	-	3/4"	-			WALL HUNG		
WC-1	WATER CLOSET	4"	2"	-	1"	-			ADA, WALL HUNG		
WC-2	WATER CLOSET	4"	2"	-	1"	-			WALL HUNG		
WH-1	WALL HYDRANT	-	-	-	3/4"	-			-		
WH-2	WALL HYDRANT	-	-	3/4"	3/4"	-			-		
WMB-1	WASHING MACHINE BOX	3"	1-1/2"	1/2"	1/2"	-			-		

INSTANTANEOUS WATER HEATER SCHEDULE

SYMBOL	TYPE	FUEL	MIN. GAS INPUT (MBH)	MAX. GAS INPUT (MBH)	MAX. GAS OUTPUT (MBH)	NAT. GAS MIN & MAX PRESSURE(*W.C)	TH. EFF.	TDR	INLET (IN)	OUTLET (IN)	GPH @ 100°F TEMP. RISE	ELECTRICAL REQUIREMENTS			REMARKS	BASIS OF DESIGN	MODEL
												VOLTAGE	PH	FLA			
DWH-1	INDOOR, FLOOR MOUNTED, ON DEMAND WATER HEATER	NAT. GAS	30	499.9	479.9	2.5"W.C - 14"W.C	96%	16.7:1	1-1/2"	1-1/2"	576	120	1	9.5	1, 2, 3, 4	INTELLIHOT	IN501
REMARKS:																	
1. FURNISHED AND INSTALL WATER HEATER WITH CONDENSATE NEUTRALIZER KIT MODEL# CN1001.																	
2. WATER HEATER SHALL BE SET AT 120°F.																	
3. WATER HEATER SHALL BE ETL AND ASME CERTIFIED.																	
4. WATER HEATER SHALL BE VENTED IN ACCORDANCE WITH THE MANUFCAURER INSTRAUCTIONS.																	

NATURAL GAS PIPING SYSTEMS NOTES:

- GAS PIPE SHALL BE SCHEDULE 40 SEAMLESS STEEL PIPE.
- INSTALLATION SHALL BE ACCORDING TO LOCAL CODES AND GAS COMPANY REQUIREMENTS. AFTER INSTALLATION, PIPE SHALL BE TESTED WITH 30 LB. TEST FOR 1 HOUR WITNESSED BY LOCAL GAS COMPANY BEFORE SERVICE IS TURNED ON.
- PROVIDE A SUITABLE GAS COCK AND UNIONS AT EACH CONNECTION TO EACH PIECE OF GAS FIRED EQUIPMENT.
- PROVIDE SUITABLE GAS PRESSURE REGULATORS WITH VENTS TO THE ATMOSPHERE REQUIRED IN ORDER TO MAINTAIN REQUIRED PRESSURE AT EACH PIECE OF GAS CONSUMING EQUIPMENT.
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION OR THE NATIONAL FUEL GAS CODE FOR GAS-FIRED UNIT HEATERS AND DUCT FURNACES, AND THESE STANDARDS SHOULD BE FOLLOWED CAREFULLY. AUTHORITIES HAVING JURISDICTION SHOULD BE CONSULTED BEFORE INSTALLATION ARE MADE TO VERIFY LOCAL CODES AND INSTALLATION.
- PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH GAS COMPANY. GAS SERVICE SHALL BE SIZED FOR THE CAPACITY OF ALL GAS EQUIPMENT.
- PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH ALL OTHER TRADES TO AVOID CONFLICT.
- GAS METER LOCATION SHALL BE COORDINATED WITH GAS COMPANY AND ARCHITECT.
- ALL EXPOSED PIPING SHALL BE PAINTED BY THE G.C WITH (1) PRIME COAT AND (2) COATS OF BEST QUALITY OIL BASE PAINT.
- PLUMBING CONTRACTOR SHALL INSTALLED ALL GAS FIRE EQUIPMENT BY MANUFACTURERS INSTRUCTIONS.

PLUMBING NOTES:

- INDIVIDUAL FIXTURE PIPING CONNECTION SIZES SHALL BE IN ACCORDANCE WITH PLUMBING FIXTURE SCHEDULE.
- ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR UNLESS OTHERWISE NOTED. ALL VENT LINES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. ALL WATER PIPING SHALL BE CONCEALED WHERE PHYSICALLY POSSIBLE.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE AND NATIONAL HAVING JURISDICTION.
- THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSURE A COMPLETE SYSTEM.
- THE CONTRACTOR SHALL THOROUGHLY COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
- THE CONTRACTOR SHALL SEAL ALL RESPECTIVE WALL, FLOOR, CEILING OR ROOF PENETRATIONS.
- THE PLUMBING CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE HARD JACKETING FOR ALL EXPOSED PIPING IN OPEN OR CLOUD CEILING AREAS WHERE THE PIPING IS VISIBLE. THE JACKETING SHALL BE MANUFACTURED BY JOHNS MANVILLE, MODEL: ZESTON PVC JACKETING, OR AN APPROVED EQUAL.

HOT WATER CIRCULATOR PUMP SCHEDULE

SYMBOL	DESCRIPTION	CAPACITY (GPM)	HEAD (FT)	WATER CONNECTIONS (IN)	HP	RPM	ELECTRICAL REQUIREMENTS				REMARKS	BASIS OF DESIGN	MODEL
							VOLTAGE	HZ	PH	AMPS			
CP-1	CIRCULATOR PUMP	20	35	1-1/2"	1/2	3,450	115	60	1	3.6	1	TACO	2400
CP-2	CIRCULATOR PUMP	10	15	1-1/4"	1/3	3,450	115	60	1	3.6	1	TACO	2400
REMARKS:													
1. THE PUMP SHALL BE ALL STAINLESS STEEL CONSTRUCTION FOR DOMESTIC HOT WATER SERVICE.													

KITCHEN PLUMBING NOTES:

- ALL EXPOSED PIPING IN THE KITCHEN AREA SHALL HAVE CHROME FINISH. COORDINATE EXACT ROUGH-IN LOCATIONS WITH THE FOOD SERVICE CONTRACTOR.
- FAUCETS AND WASTE OUTLETS TO AND INCLUDING TAILPIECES ARE FURNISHED AND INSTALLED BY OTHERS.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR CONNECTING TO THE TAILPIECE, AND IS RESPONSIBLE FOR ALL PIPING DOWNSTREAM INCLUDING THE TRAPS. P.C. IS ALSO RESPONSIBLE FOR THE INTERCONNECTION OF MULTIPLE SINK WASTE LINES AND WATER SUPPLIES TO MULTIPLE FAUCETS.

PLUMBING SYMBOL SCHEDULE

	NEW DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	DEMOLITION DOMESTIC COLD WATER PIPING
	NEW DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	DEMOLITION DOMESTIC HOT WATER PIPING
	NEW DOMESTIC HOT WATER CIRCULATING PIPING
	EXISTING DOMESTIC HOT WATER CIRCULATING PIPING
	DEMOLITION DOMESTIC HOT WATER CIRCULATING PIPING
	NEW DOMESTIC 140 HOT WATER PIPING
	EXISTING DOMESTIC 140 HOT WATER PIPING
	DEMOLITION DOMESTIC 140 HOT WATER PIPING
	NEW DOMESTIC 140 HOT WATER CIRCULATING PIPING
	EXISTING DOMESTIC 140 HOT WATER CIRCULATING PIPING
	DEMOLITION DOMESTIC 140 HOT WATER CIRCULATING PIPING
	NEW NATURAL GAS PIPING
	EXISTING NATURAL GAS PIPING
	DEMOLITION NATURAL GAS PIPING
	NEW CONDENSATE PIPING
	EXISTING CONDENSATE PIPING
	DEMOLITION CONDENSATE PIPING
	NEW SANITARY DRAIN PIPING
	EXISTING SANITARY DRAIN PIPING
	DEMOLITION SANITARY DRAIN PIPING
	NEW ACID WASTE DRAIN PIPING
	EXISTING ACID WASTE DRAIN PIPING
	DEMOLITION ACID WASTE DRAIN PIPING
	FLOOR CLEANOUT
	WALL CLEANOUT
	NEW SANITARY VENT PIPING
	EXISTING SANITARY VENT PIPING
	NEW ACID WASTE VENT PIPING
	EXISTING ACID WASTE VENT PIPING
	NEW GREASE LADEN WASTE DRAIN PIPING
	EXISTING GREASE LADEN WASTE DRAIN PIPING
	DEMOLITION GREASE LADEN WASTE DRAIN PIPING
	VENT THRU ROOF
	NEW EMERGENCY OVERFLOW STORM WATER PIPING
	NEW STORM WATER PIPING
	EXISTING STORM WATER PIPING
	DEMOLITION STORM WATER PIPING
	RAIN WATER CONDUCTOR (STORM SEWER RISER)
	NEW ROOF DRAIN
	EXISTING ROOF DRAIN
	SHUT-OFF VALVE
	CHECK VALVE AND BALANCING VALVE
	CONNECTION NEW TO EXISTING
	DISCONNECTION DEMO TO EXISTING

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AW	ACID WASTE PIPING
BG	BELOW GRADE
CA	COMPRESSED AIR
C	CONDENSATE
CO	CLEANOUT
CW	COLD WATER
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FD	FLOOR DRAIN
GW	GREASE LADEN WASTE DRAIN PIPING
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
LV	LAVATORY
MB	MOP BASIN
OST	EMERGENCY STORM SEWER OVERFLOW
RD	ROOF DRAIN
SHR	SHOWER
SK	SINK
SS	SERVICE SINK
ST	STORM SEWER
UR	URINAL
VTR	VENT THRU ROOF
WC	WATER CLOSET



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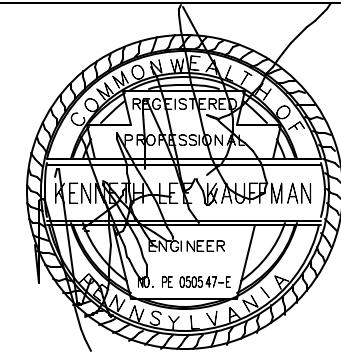
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CR



NOTES AND SCHEDULES

PLOTS/SCALE
As indicated
FILENAME
240066
DATE
MARCH 10, 2025

PROJECT
3758

P0.1



1 PROPOSED SITE PLAN
1" = 40'-0"

DRAWING NOTES:

1. RUN SANITARY PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
2. 1,000 GALLON HYDROMECHANICAL GREASE INTERCEPTOR.
3. RUN STORM PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
4. RUN FIRE WATER SERVICE PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE A MINIMUM OF 4 FEET OF COVER OVER PIPING.
5. RUN DOMESTIC WATER SERVICE PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE A MINIMUM OF 4 FEET OF COVER OVER PIPING.
6. RUN SANITARY PIPING 5'-0" FROM GREASE INTERCEPTOR AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
7. NEW GAS METER ASSEMBLY. REFER TO GAS PIPING RISER DIAGRAM FOR MORE DETAILS.
8. NEW GAS SERVICE LINE FROM PECO.



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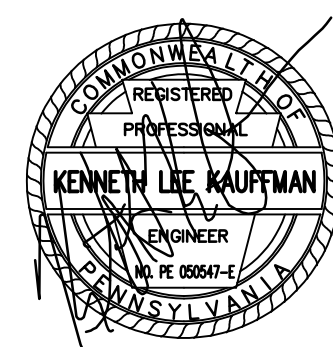
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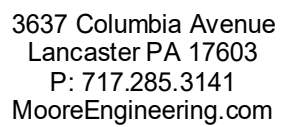


SITE PLAN

PLOT SCALE:
AS INDICATED
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758

P1.0



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CONSTRUCTION NORTH

TRUE NORTH

[illegible]

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300 COOPERTOWN ROAD
PO BOX 10010

FIRST FLOOR UNIT A
PLUMBING DEMOLITION

PROJECT
3758

P1.1

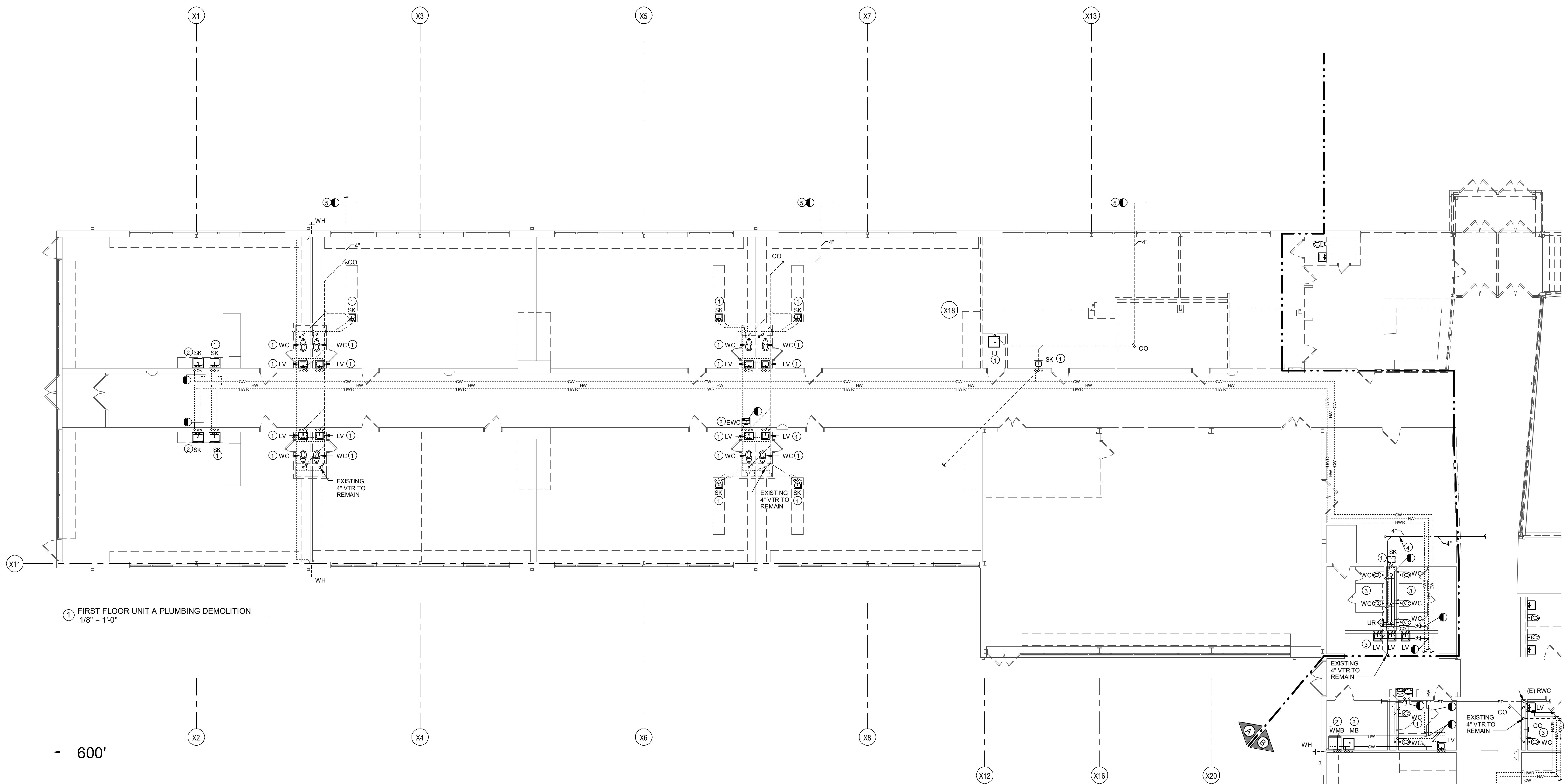
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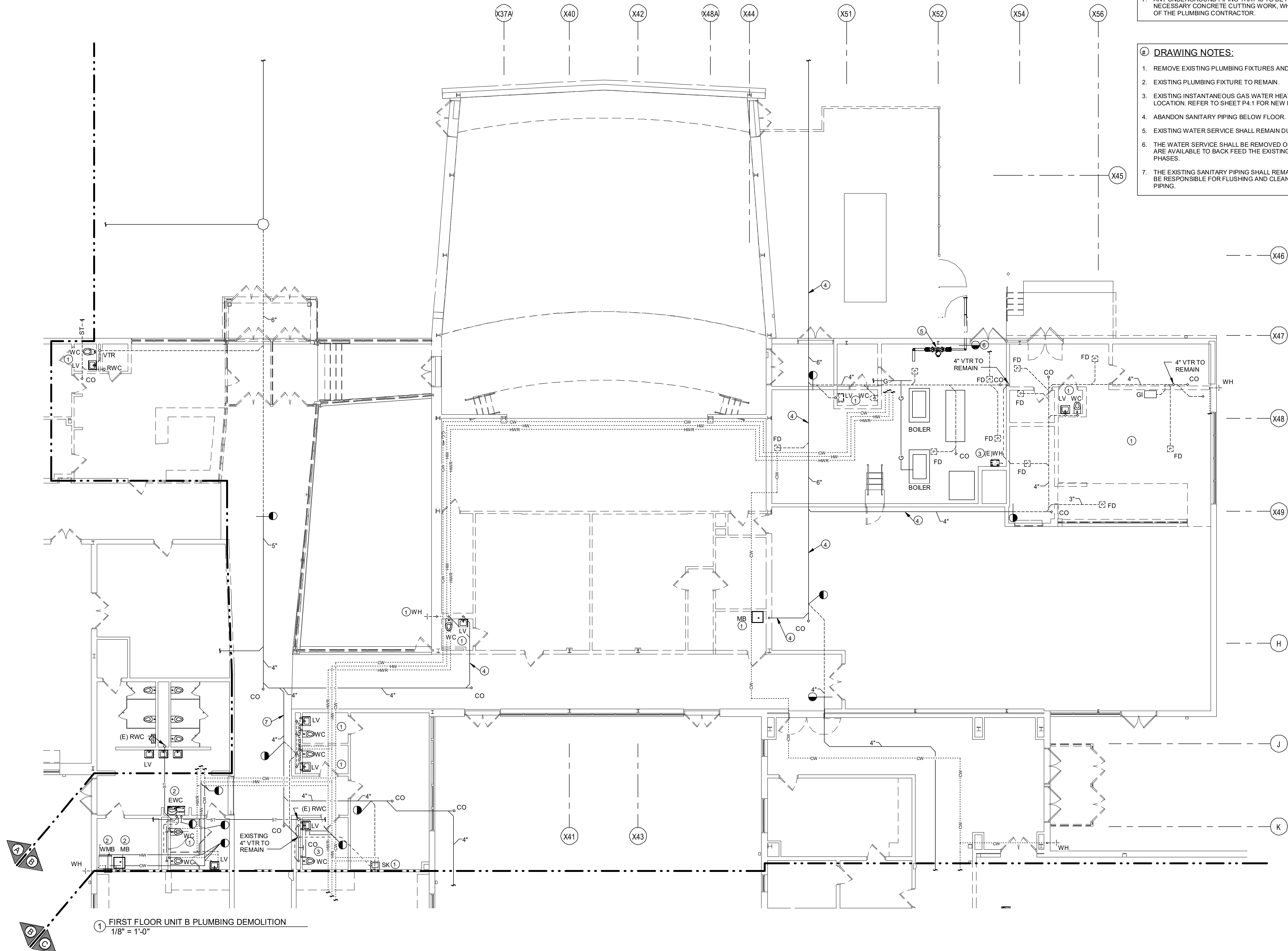
GENERAL DEMOLITION NOTES

1. RESPECTIVE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY DEMOLITION WORK (EVEN IF NOT SHOWN ON THE PLANS) NECESSARY FOR REMOVAL OF EXISTING EQUIPMENT. THIS INCLUDES REMOVAL OF ANY EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE UTILIZED AFTER COMPLETION OF THIS PROJECT.
2. EQUIPMENT THAT IS REMOVED SHALL BE TURNED OVER TO OWNER. IF OWNER DOES NOT WANT EQUIPMENT, IT SHALL BE DISPOSED OF PROPERLY BY RESPECTIVE CONTRACTOR.
3. PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING PLUMBING FIXTURES, VALVES, AND ASSOCIATED APPURTENANCES IN ENTIRE BUILDING UNLESS NOTED OTHERWISE ON PLANS.
4. PLUMBING CONTRACTOR SHALL REMOVE ALL PIPING, HANGERS, VALVES, SUPPORTS, PADS, AND ALL OTHER ASSOCIATED APPURTENANCES ASSOCIATED PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED EVEN IF NOT SHOWN ON PLANS.
5. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL OPENING TO MATCH EXISTING EQUIPMENT OR FIXTURES ARE REMOVED AND NOT REPLACED.
6. PLUMBING PIPING, VALVES, FIXTURES, AND EQUIPMENT SHOWN ARE APPROXIMATE. PLUMBING CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
7. ANY UNDERGROUND PIPING THAT IS TO BE REMOVED MUST INCLUDE ALL NECESSARY CONCRETE CAPPING WORK, WHICH SHALL BE RESPONSIBILITY OF PLUMBING CONTRACTOR.

④ DRAWING NOTES:

1. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING.
2. P.C. SHALL REMOVE EXISTING PLUMBING FIXTURE AND PREPARE ROUGH-IN FOR NEW INSTALLATION. REFER TO NEW WORK FOR LOCATION.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. THE EXISTING SANITARY PIPING SHALL REMAIN IN PLACE. THE P.C. SHALL BE RESPONSIBLE FOR FLUSHING AND CLEANING THE EXISTING SANITARY PIPING.
5. EXTEND DEMOLITION 5'-0" FROM BUILDING.





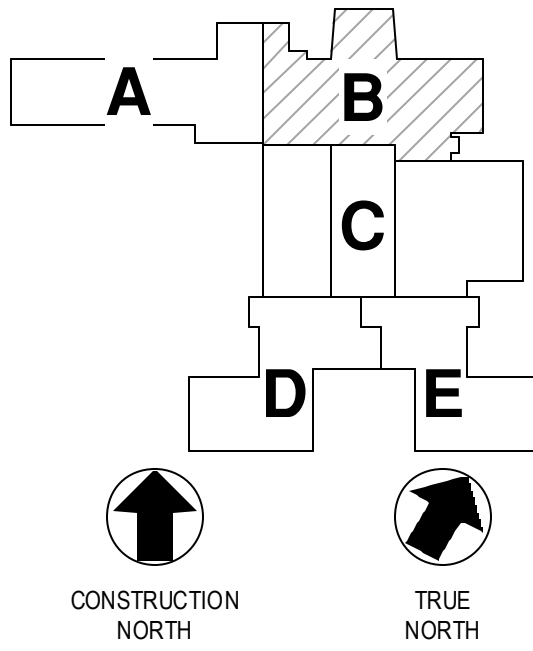
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- PLUMBING PIPING, VALVES, FIXTURES, AND EQUIPMENT SHOWN ARE APPROXIMATE. PLUMBING CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- ANY UNDERGROUND PIPING THAT IS TO BE REMOVED MUST INCLUDE ALL NECESSARY CONCRETE CUTTING WORK, WHICH SHALL BE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

DRAWING NOTES:

- REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING.
- EXISTING PLUMBING FIXTURE TO REMAIN.
- EXISTING INSTANTANEOUS GAS WATER HEATER TO REMAIN IN NEW LOCATION. REFER TO SHEET P4-1 FOR NEW LOCATION.
- ABANDON SANITARY PIPING BELOW FLOOR.
- EXISTING WATER SERVICE SHALL REMAIN DURING PHASE 1.
- THE WATER SERVICE SHALL BE REMOVED ONCE THE NEW WATER SERVICE ARE AVAILABLE TO BACK FEED THE EXISTING SYSTEM DURING OTHER PHASES.
- THE EXISTING SANITARY PIPING SHALL REMAIN IN PLACE. THE P.C. SHALL BE RESPONSIBLE FOR FLUSHING AND CLEANING THE EXISTING SANITARY PIPING.

KEY PLAN



REVISIONS

NO.	DATE	BY	NAME	DESCRIPTION OF CHANGES
1				
2				
3				
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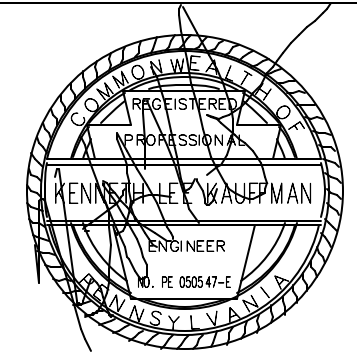
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SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
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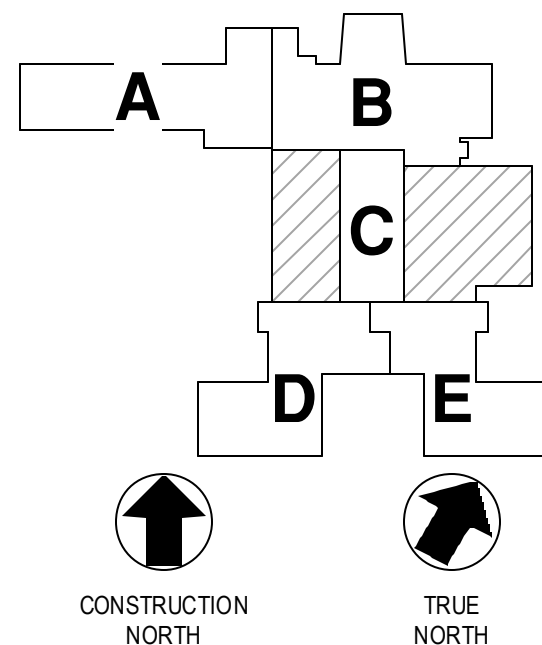
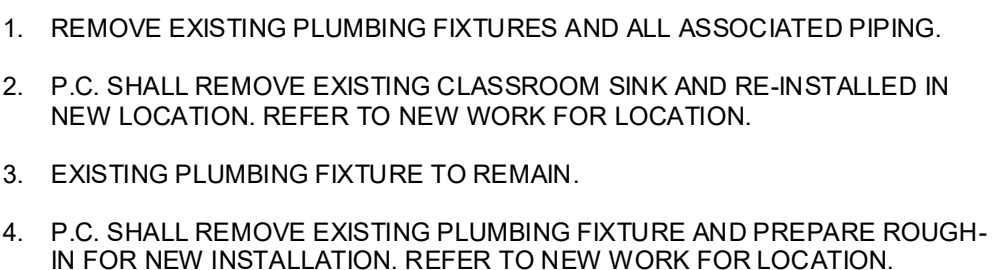


FIRST FLOOR UNIT B
PLUMBING DEMOLITION

PLOTSCALE
1/8" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

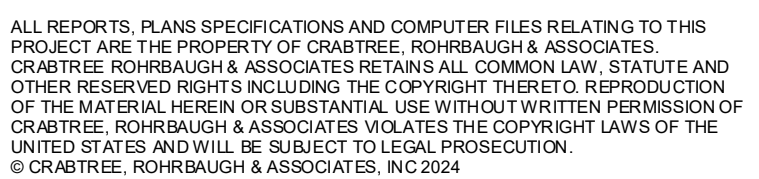
PROJECT
3758

P1.2

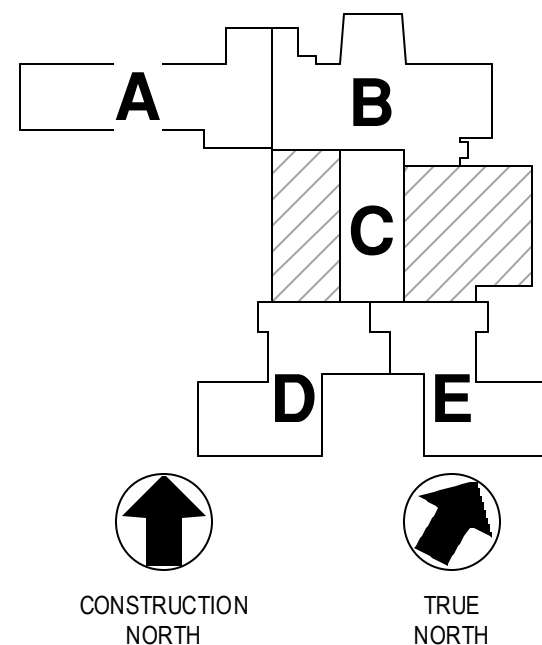
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ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP

P1.3



KEY PLAN



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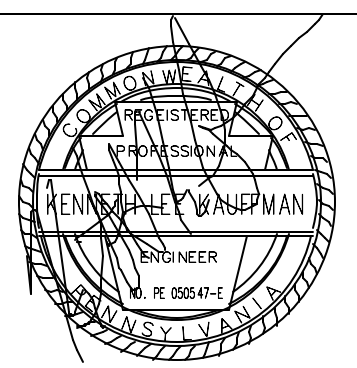
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COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP

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P1.3



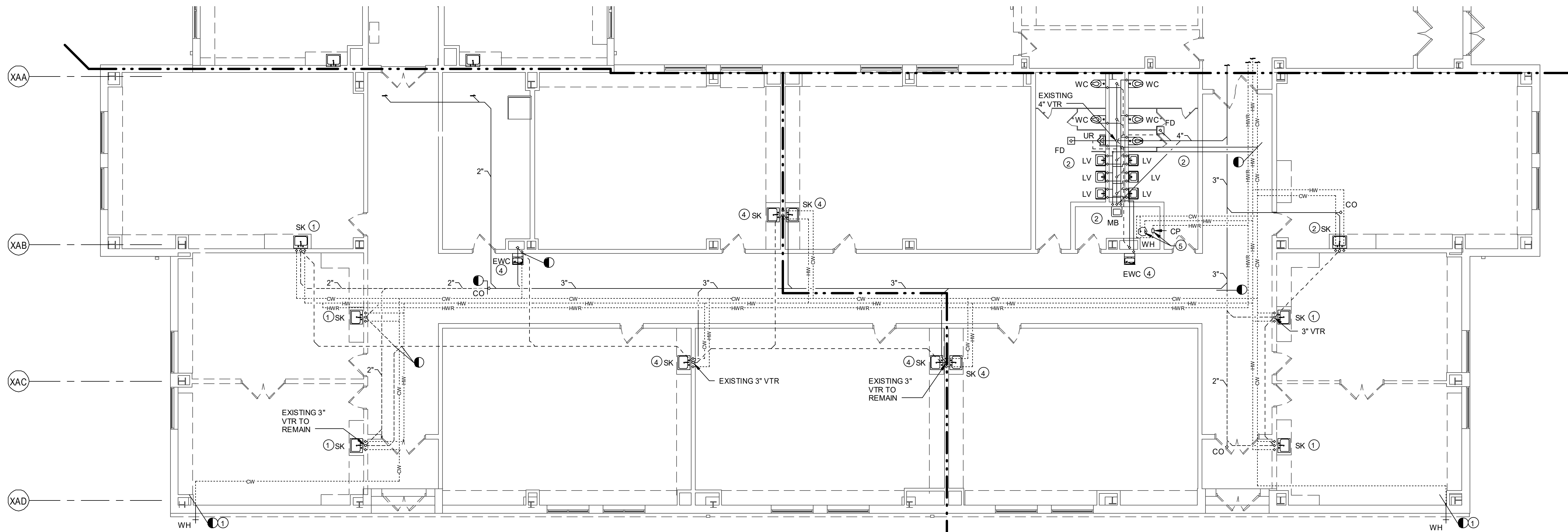
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FIRST FLOOR UNIT C
PLUMBING DEMOLITION

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

FILENAME:
24066

DATE: MARCH 10, 2025



1 FIRST FLOOR UNIT D & E PLUMBING DEMOLITION
1/8" = 1'-0"

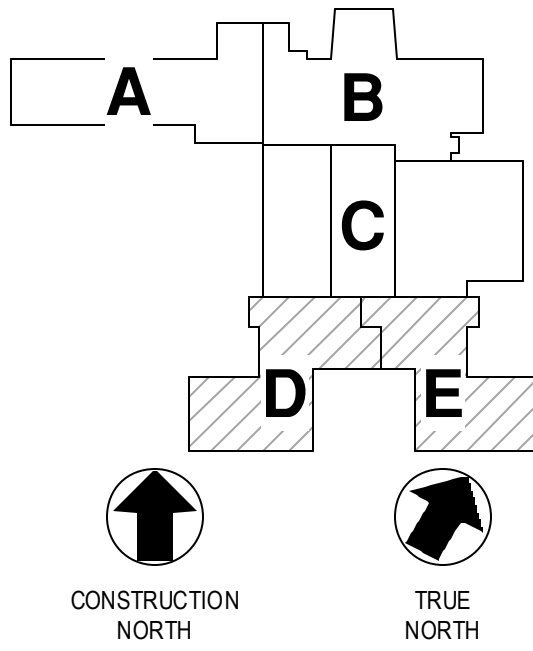
GENERAL DEMOLITION NOTES:

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3. PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING PLUMBING FIXTURES, PIPING, AND ALL ASSOCIATED APPURTENANCES IN ENTIRE BUILDING UNLESS NOTED OTHERWISE ON PLANS.
4. PLUMBING CONTRACTOR SHALL REMOVE ALL PIPING, HANGERS, VALVES, SUPPORTS, PADS, AND ALL OTHER ASSOCIATED APPURTENANCES ASSOCIATED PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED EVEN IF NOT SHOWN ON PLANS.
5. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL OPENING TO MATCH EXISTING EQUIPMENT OR FIXTURES ARE REMOVED AND NOT REPLACED.
6. PLUMBING PIPING, VALVES, FIXTURES, AND EQUIPMENT SHOWN ARE APPROXIMATE. PLUMBING CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
7. ANY UNDERGROUND PIPING THAT IS TO BE REMOVED MUST INCLUDE ALL NECESSARY CONCRETE CUTTING WORK, WHICH SHALL BE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

4 DRAWING NOTES:

1. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING.
2. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING INCLUDING ALL APPURTENANCES LIKE GAS TURRETS, FAUCETS, EMERGENCY EYEWASHES, ACID WASTE PIPING, ACID WASTE VENTS, ETC.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. P. C. SHALL REMOVE EXISTING PLUMBING FIXTURE AND PREPARE ROOM- IN FOR NEW INSTALLATION. REFER TO NEW WORK FOR LOCATION.

KEY PLAN



REVISIONS

NO	DATE	BY	NAME	DESCRIPTION OF CHANGES

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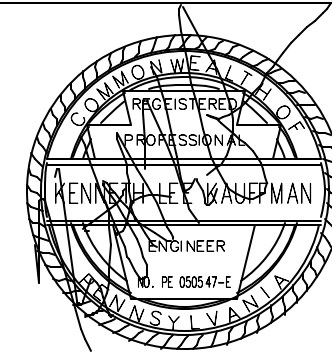
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FIRST FLOOR UNIT D & E
PLUMBING DEMOLITION

PLOTSCALE
1/8" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758

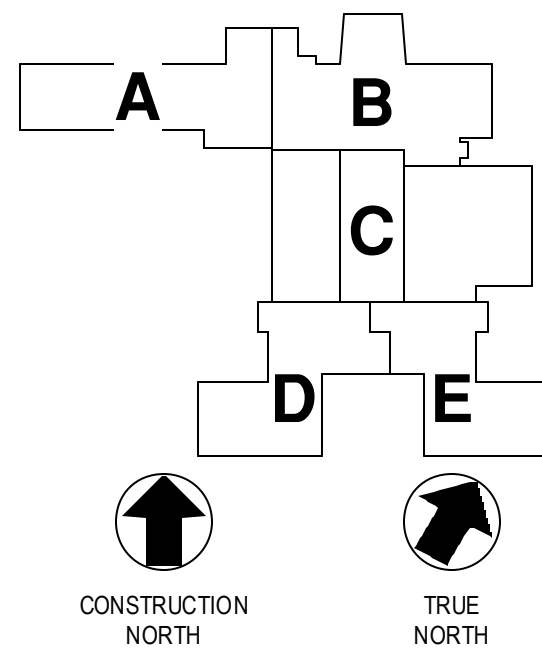
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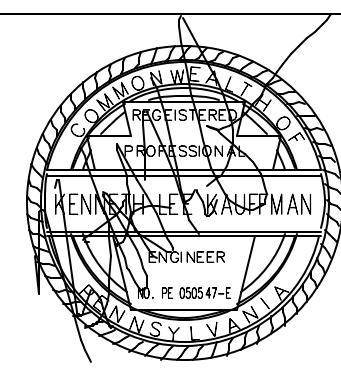
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COOPERTOWN ELEMENTARY SCHOOL

300 COOPERTOWN ROAD

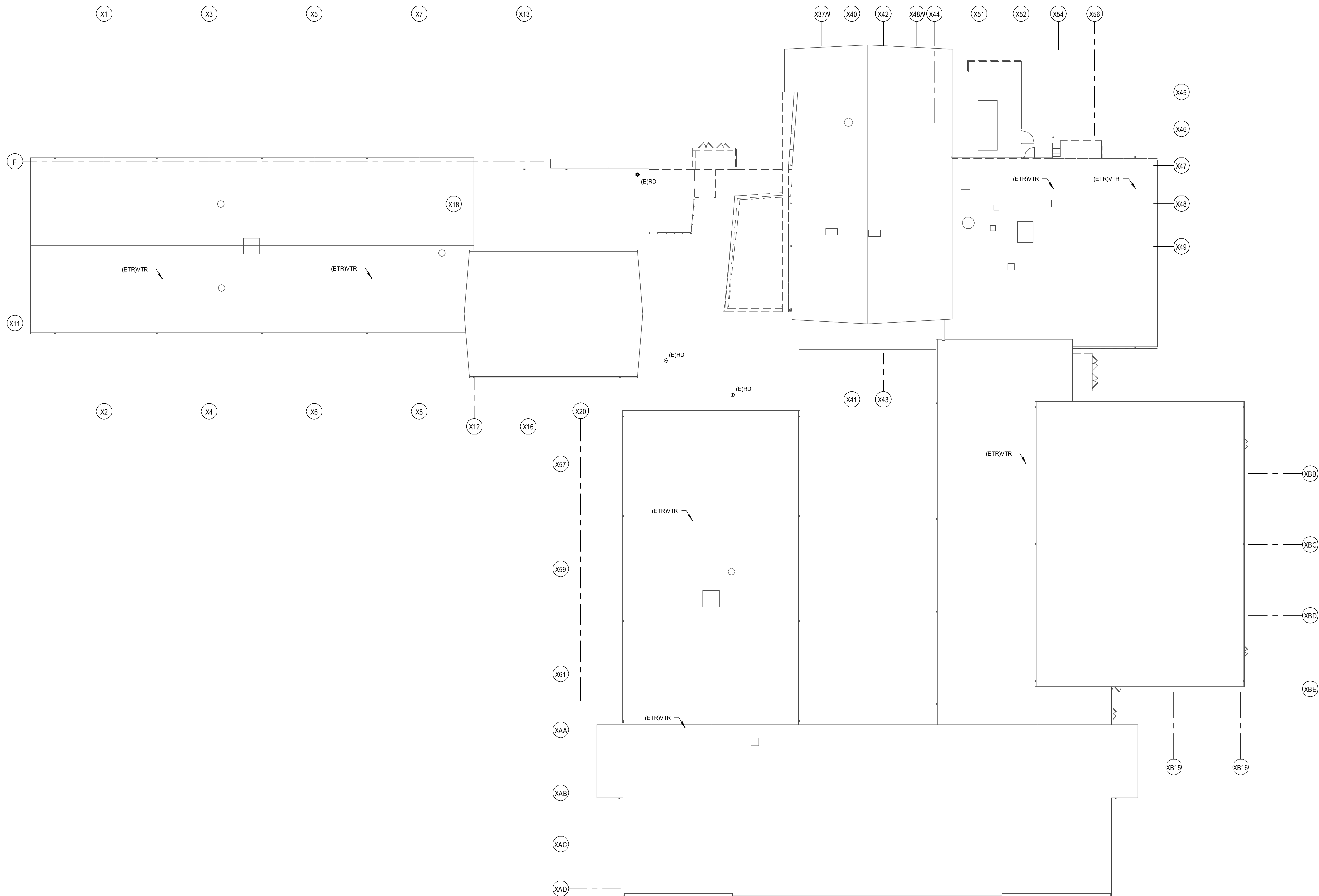


ROOF PLAN PLUMBING
DEMOLITION

LOTSCALE:
1/16" = 1'-0"
LENAME:
4066
DATE:
MARCH 1

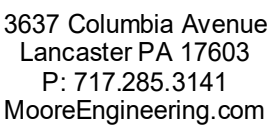
PROJECT
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P1.5



① ROOF PLAN PLUMBING DEMOLITION
1/16" = 1'-0"

1. DROP DOMESTIC WATER PIPING INSIDE FURRED-OUT WALL.
2. INSTALL SHUT-OFF VALVE, CHECK VALVE AND BALANCING VALVE, REFER TO DETAIL.
3. INSTALL NEW FIXTURE AND CONNECT TO EXISTING DOMESTIC PIPING.



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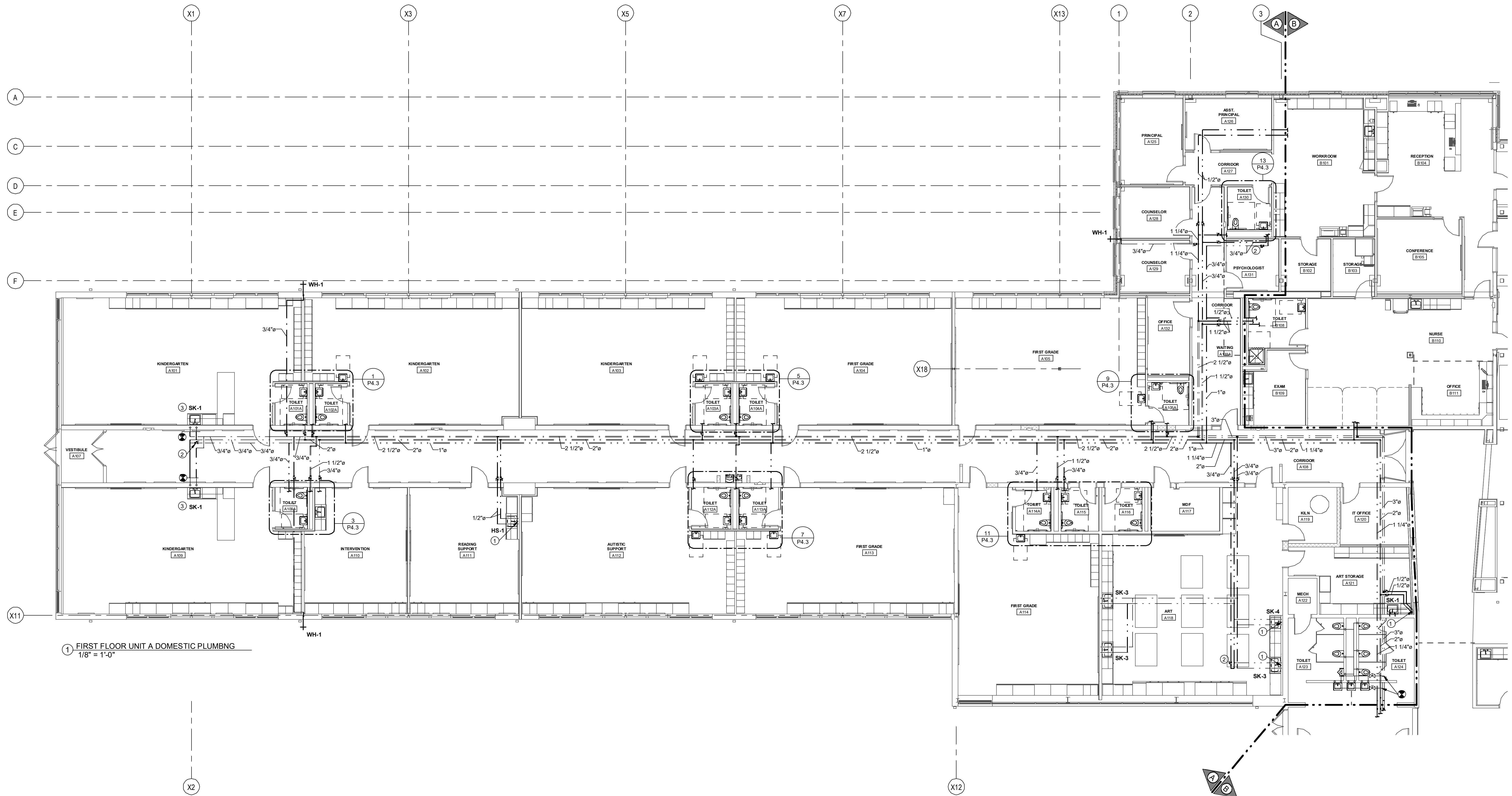
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DATE: MARCH 10, 2025

P2.1

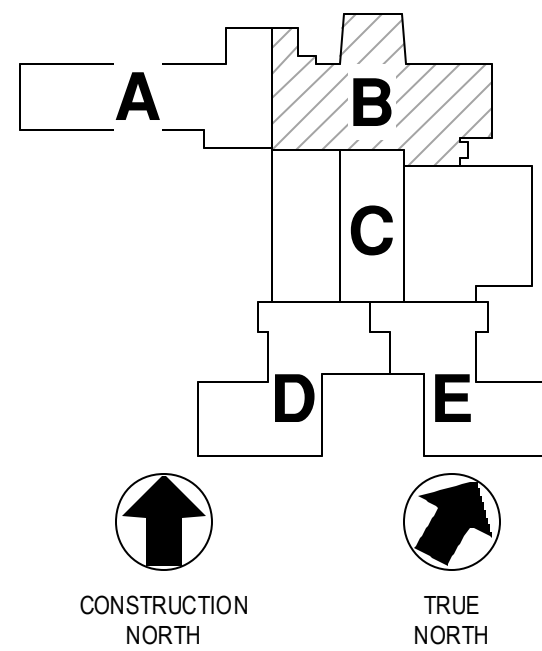




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NO.	DATE	NAME	DESCRIPTION OF CHANGES

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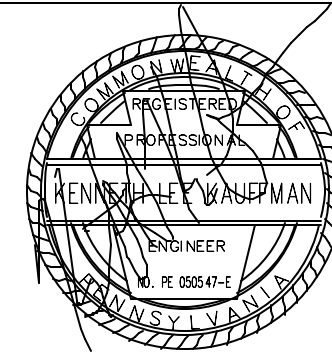
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CR



FIRST FLOOR UNIT B
DOMESTIC WATER PIPING

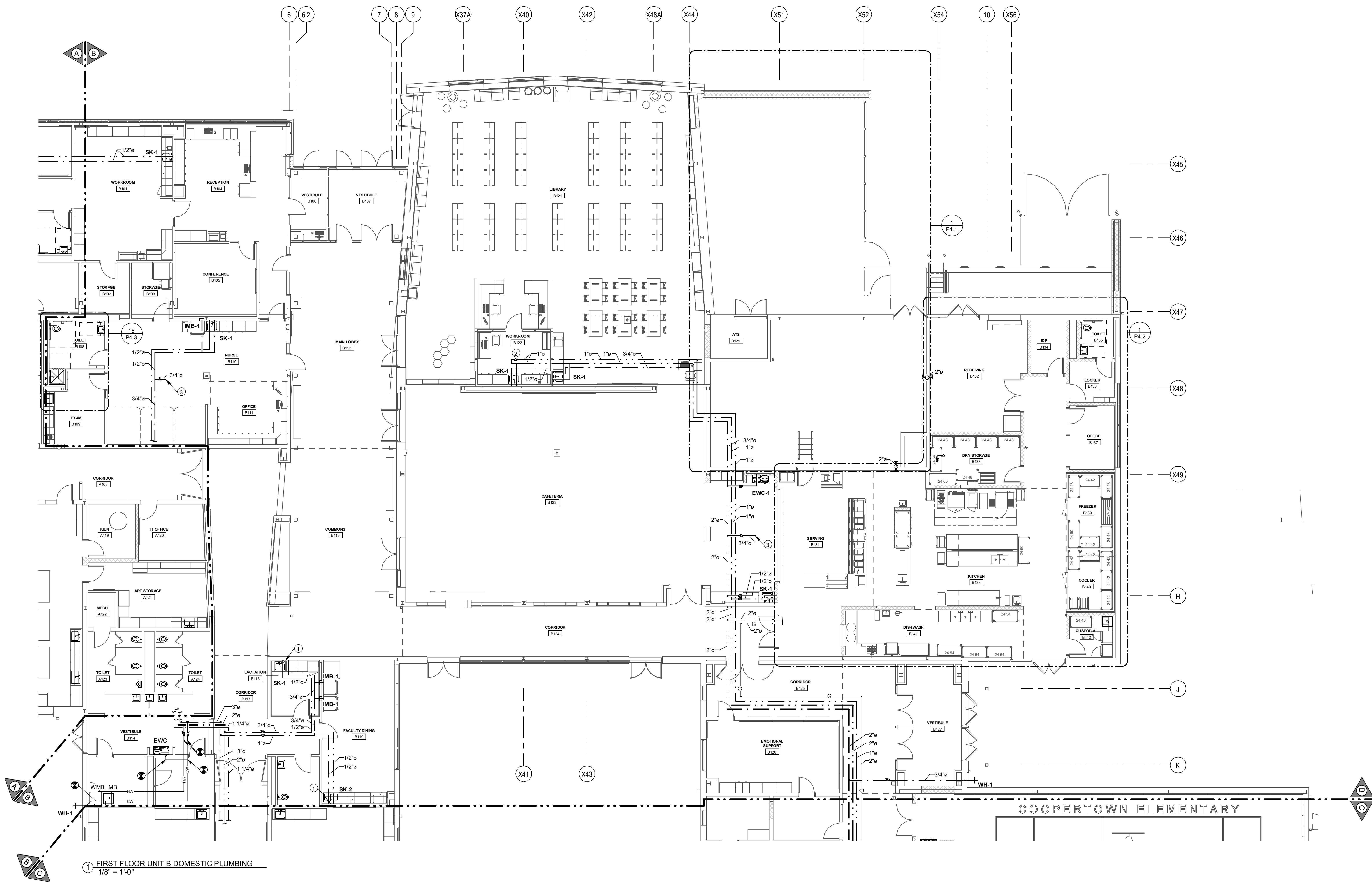
PLOTS SCALE
1/8" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758

P2.2

DRAWING NOTES:

- DROP DOMESTIC WATER PIPING INSIDE FURRED-OUT WALL.
- INSTALL SHUT-OFF VALVE, CHECK VALVE AND BALANCING VALVE, REFER TO DETAIL.
- RUN PIPING UP THRU PIPE PORTAL TO RH-1 ON ROOF.



1 FIRST FLOOR UNIT B DOMESTIC PLUMBING
1/8" = 1'-0"

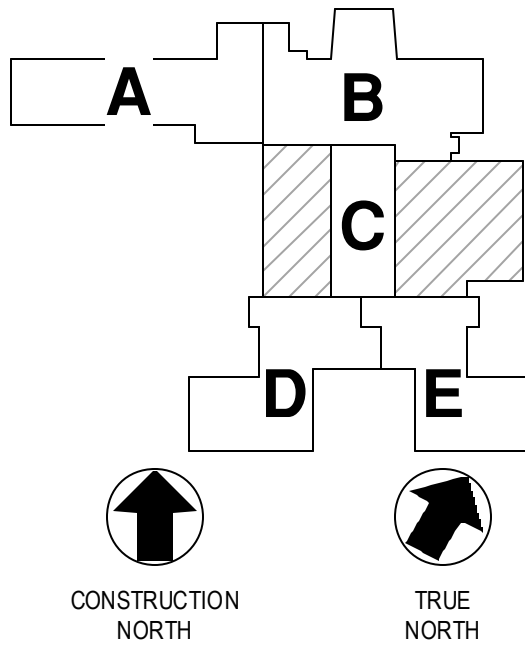
- DRAWING NOTES:
- DROP DOMESTIC WATER PIPING INSIDE FURRED-OUT WALL.
 - INSTALL NEW FIXTURE AND CONNECT TO EXISTING DOMESTIC PIPING.



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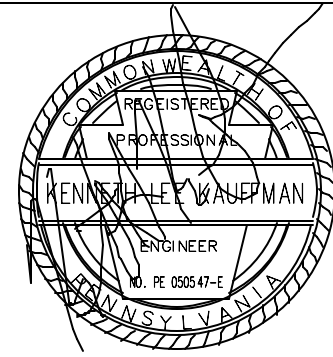
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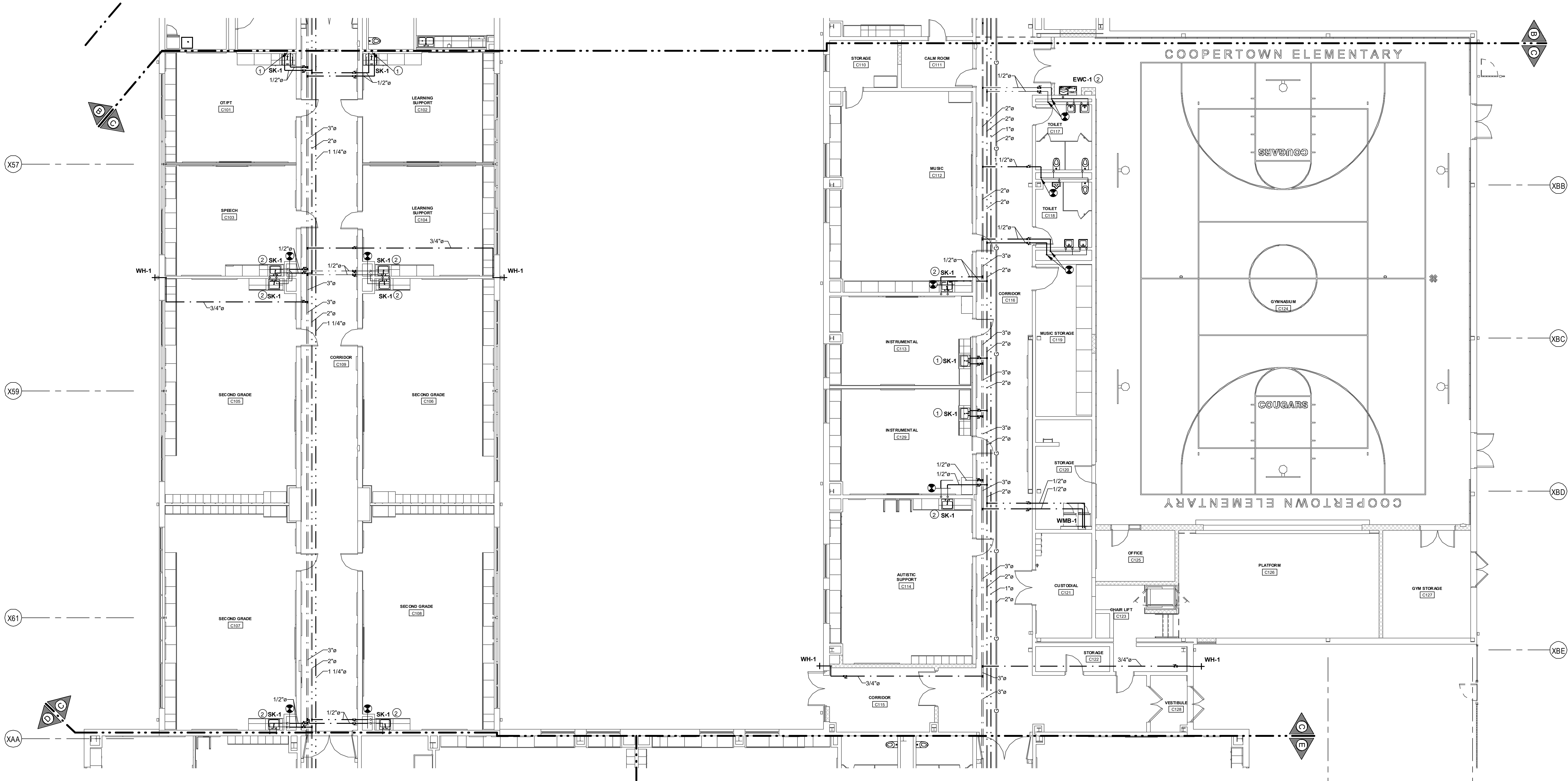


FIRST FLOOR UNIT C
DOMESTIC WATER PIPING

PLOTSCALE
1/8" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758

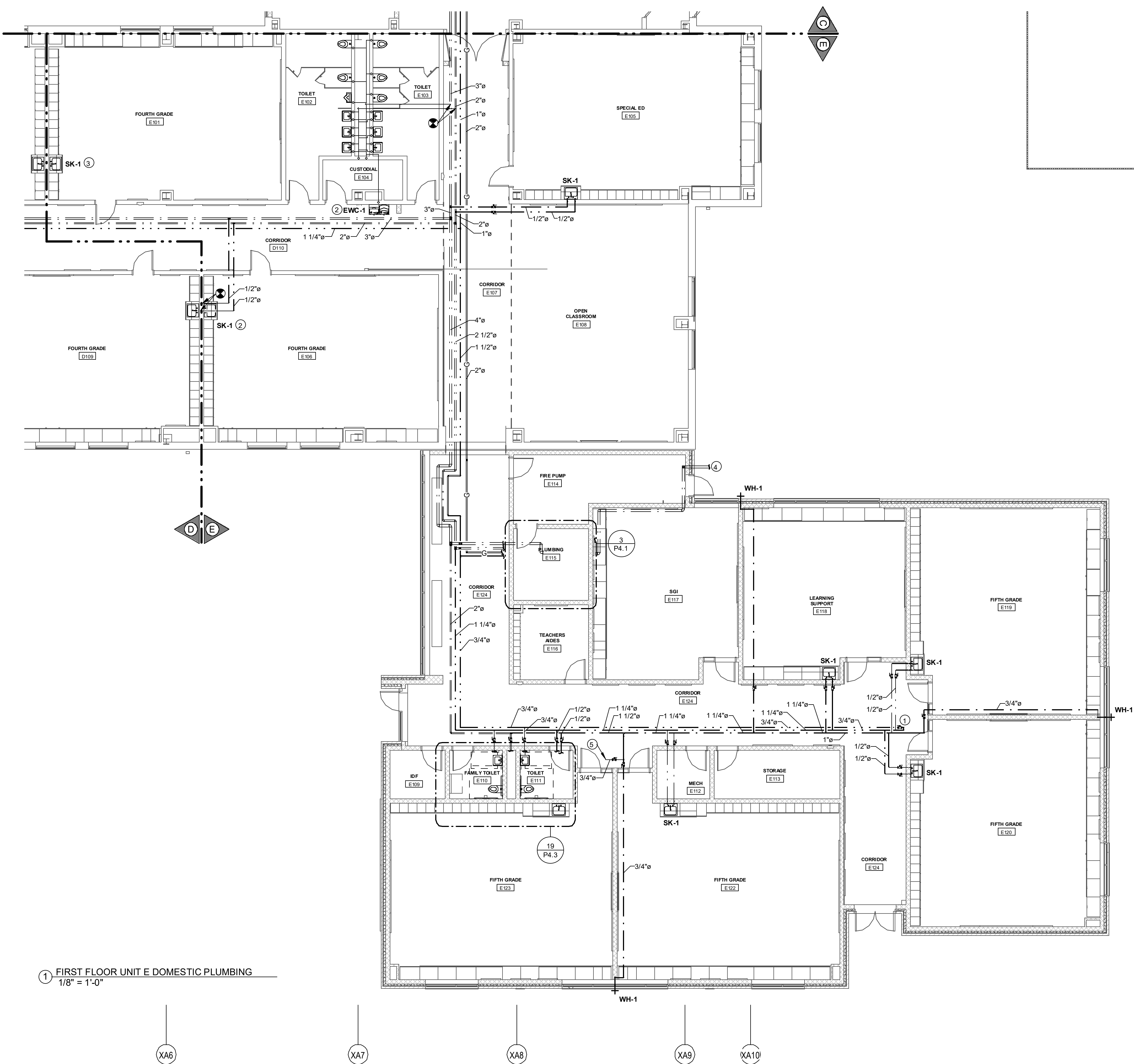
P2.3



1 FIRST FLOOR UNIT C DOMESTIC PLUMBING
1/8" = 1'-0"




- ## P2.4



1 FIRST FLOOR UNIT E DOMESTIC PLUMBING
1/8" = 1'-0"

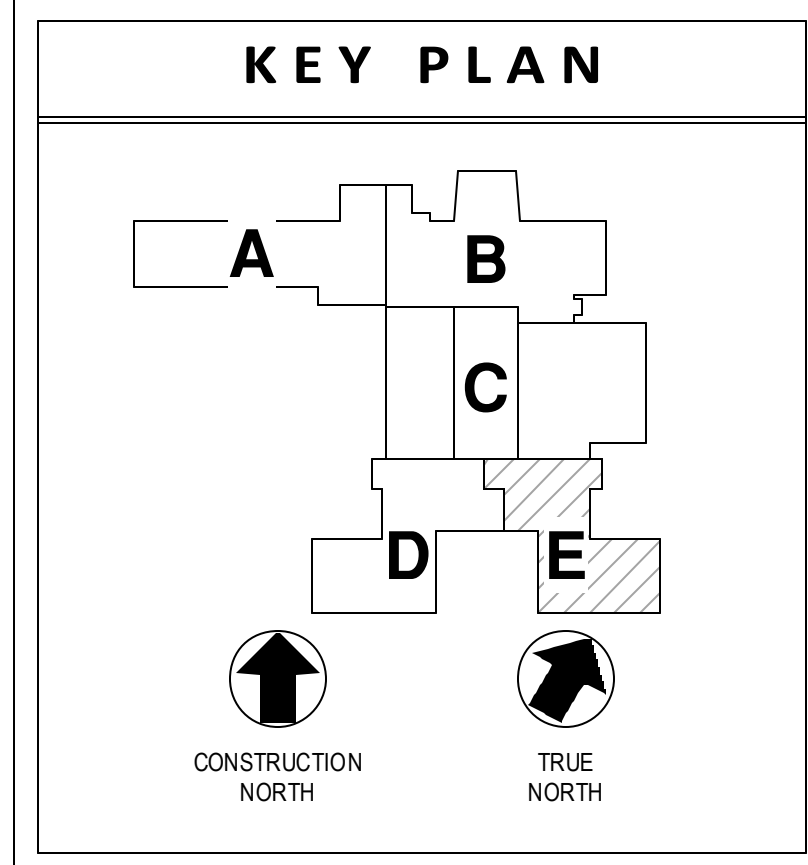
- DRAWING NOTES:**
1. INSTALL SHUT-OFF VALVE, CHECK VALVE AND BALANCING VALVE, REFER TO DETAIL.
 2. INSTALL NEW FIXTURE AND CONNECT TO EXISTING DOMESTIC PIPING.
 3. SEE P24 FOR NEW DOMESTIC PIPING CONNECTION.
 4. RUN DOMESTIC WATER SERVICE PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE A MINIMUM OF 4 FEET OF COVER OVER PIPING.
 5. RUN PIPING UP THRU PIPE PORTAL TO RH-1 ON ROOF.



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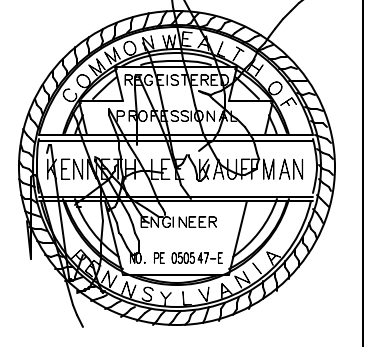

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FIRST FLOOR UNIT E
DOMESTIC WATER PIPING

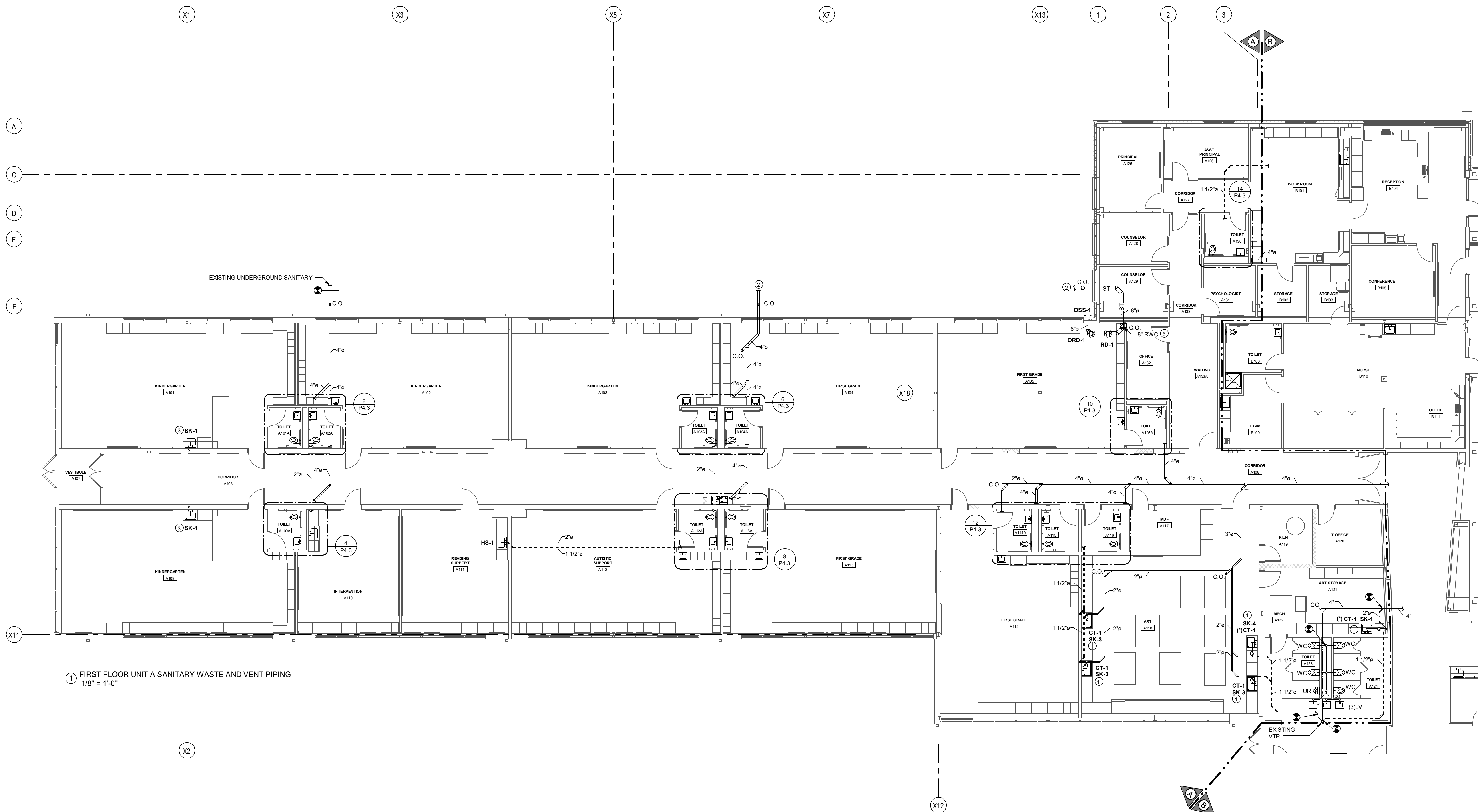
PLOTS/SCALE
1/8" = 1'-0"

FILENAME
24066

DATE
MARCH 10, 2025

PROJECT
3758

P2.5



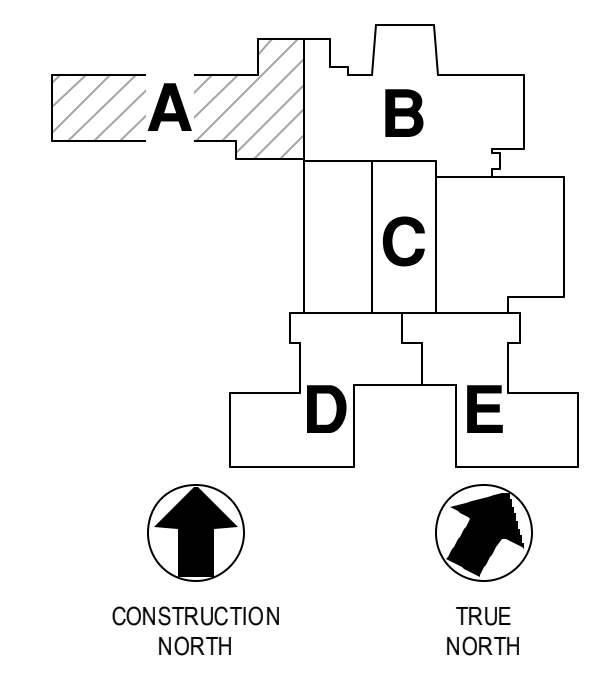
- ④ DRAWING NOTES:**
1. ALL AIR CLASSROOM SINKS SHALL BE INTEGRAL WITH THE COUNTER TOP, FINISHED AND INSTALLED BY THE G.C. THE P.C. SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL A SOLID INTERCEPTOR C-1 TO ALL AIR SINK. SOLIDS INTERCEPTOR FOR ADA SINK SHALL BE LOCATED IN ADJACENT CABINET NOTED WITH AN ASTRISK (*).
 2. RUN SANITARY PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
 3. INSTALL NEW FUTURE AND CONNECT TO EXISTING SANITARY AND VENT PIPING.
 4. RUN STORM WATER (RWC) DOWN TO BELOW FLOOR, PROVIDE CLEANOUT AT BASE.



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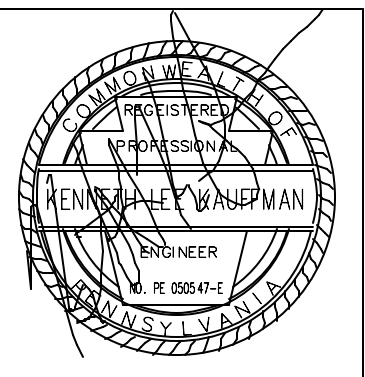


FIRST FLOOR UNIT A
SANITARY WASTE & VENT
PIPING

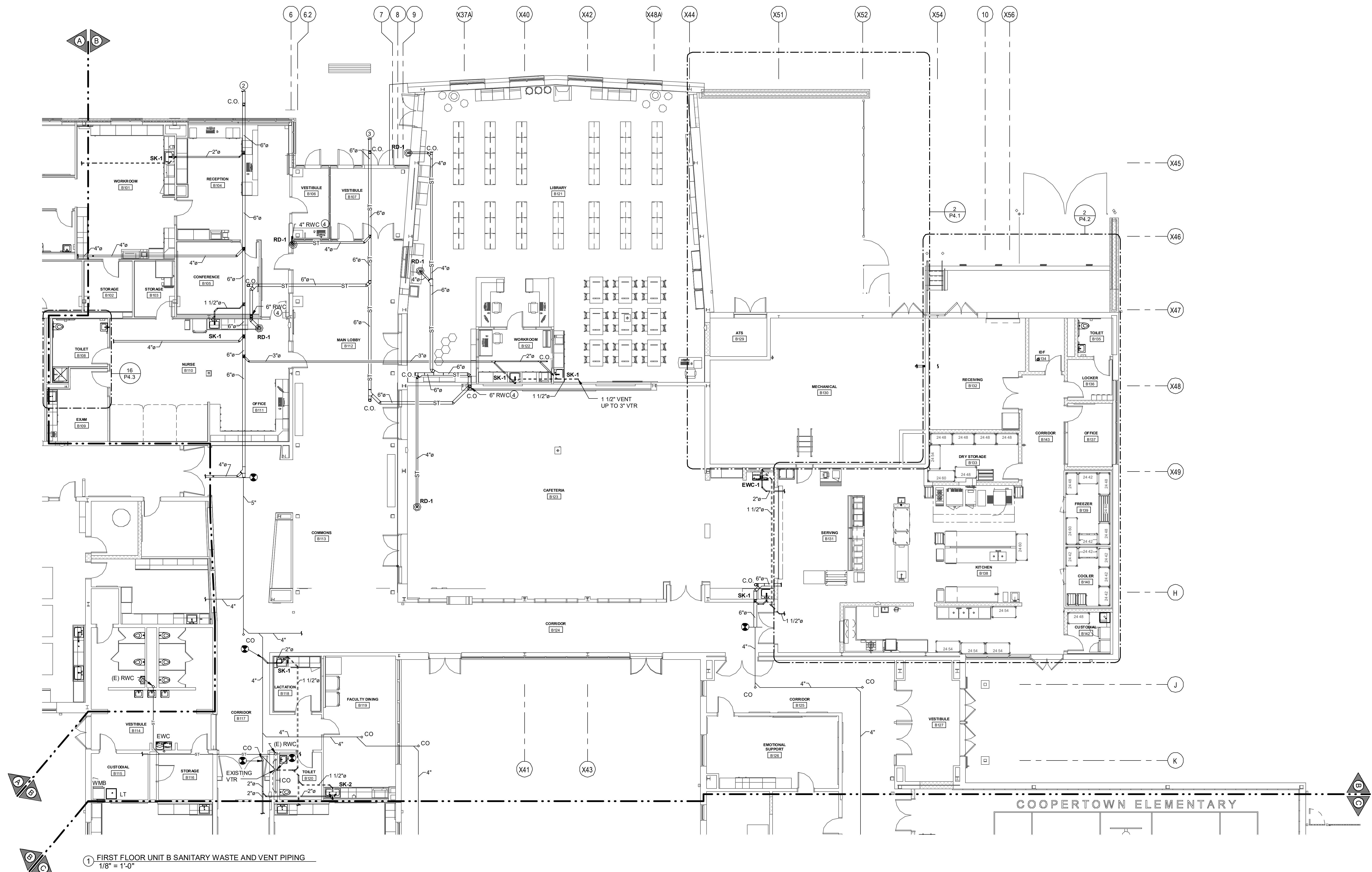
PLOT SCALE:
1/8" = 1'-0"

FILENAME:
24066

DATE:
MARCH 10, 2025



PROJECT
3758
P3.1



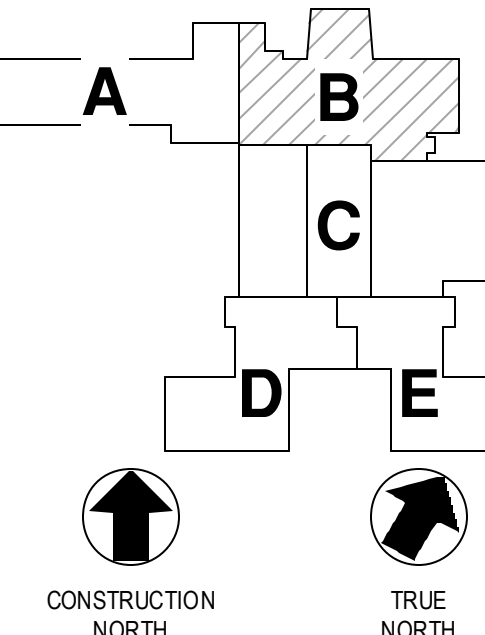
- DRAWING NOTES:**
1. P.C. SHALL FIELD VERIFY EXISTING INVERT ELEVATION AND SIZE IN FIELD PRIOR TO ANY INSTALLATION.
 2. RUN SANITARY PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
 3. RUN STORM PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. PROVIDE CLEANOUT.
 4. RUN STORM WATER (RWC) DOWN TO BELOW FLOOR, PROVIDE CLEANOUT AT BASE.



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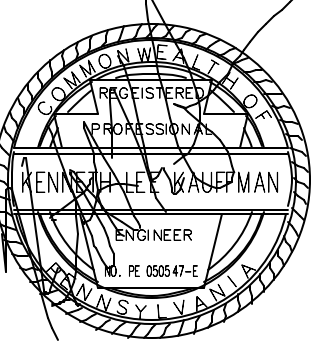
NO.	DATE	NAME	DESCRIPTION OF CHANGES
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FIRST FLOOR UNIT B
SANITARY WASTE & VENT
PIPING

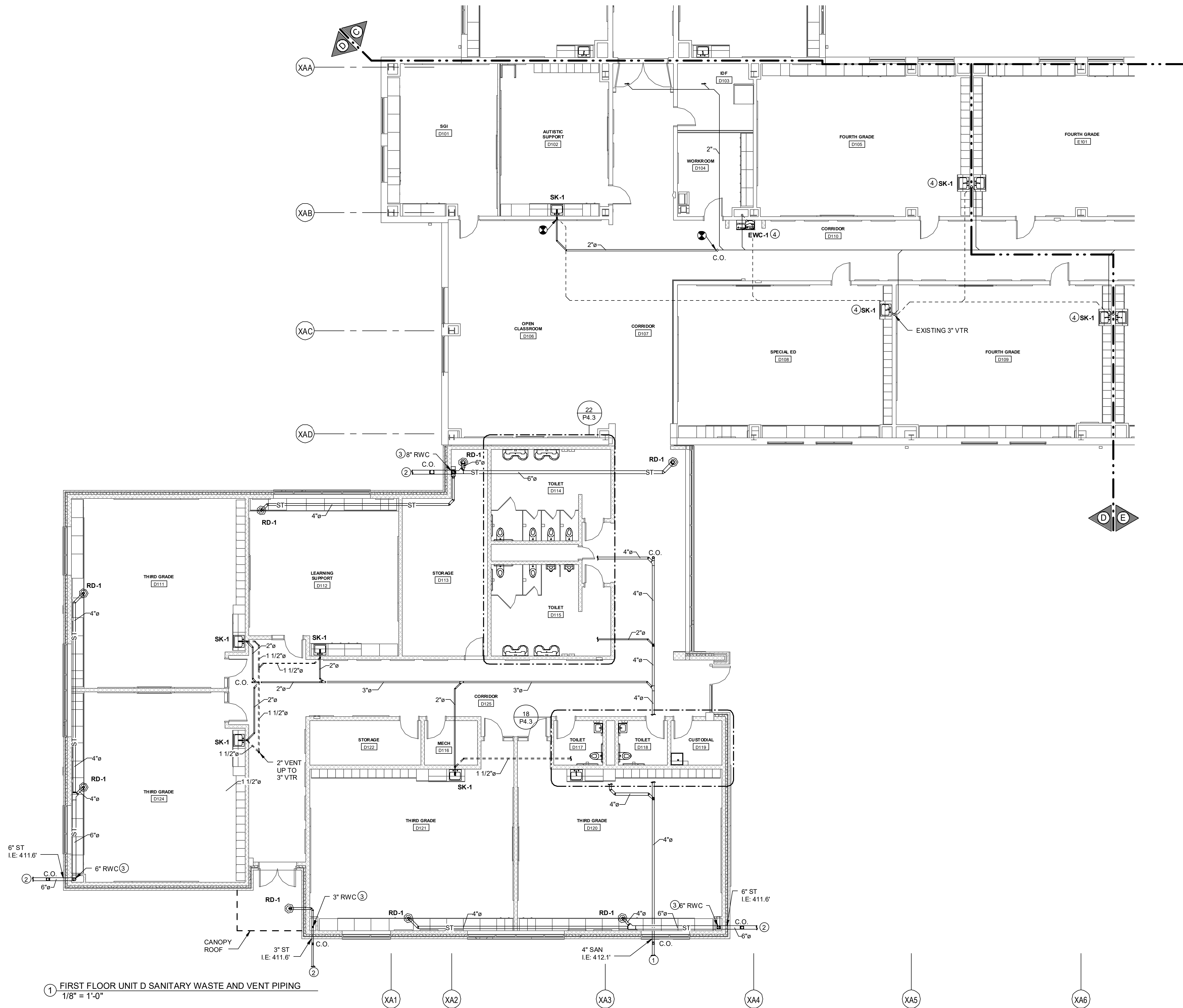
PLOTS SCALE
1/8" = 1'-0"

FILENAME
24066

DATE
MARCH 10, 2025

PROJECT
3758

P3.2



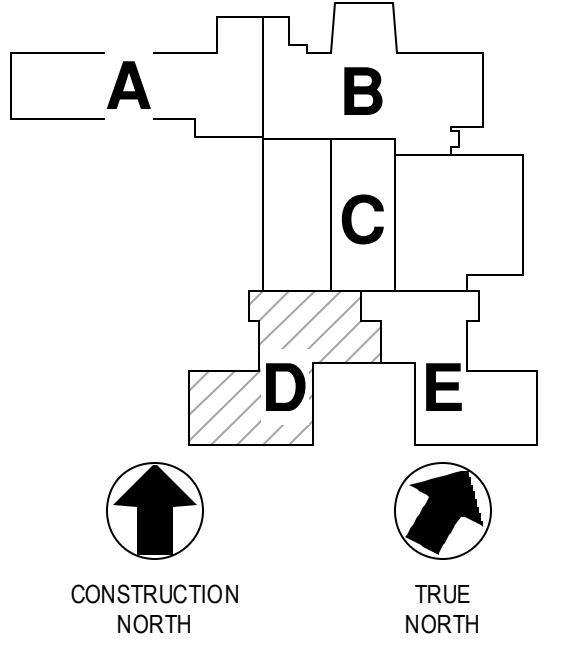
- DRAWING NOTES:**
1. RUN SANITARY PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING PROVIDE CLEANOUT.
 2. RUN STORM PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING PROVIDE CLEANOUT.
 3. RUN STORM WATER (RWC) DOWN TO BELOW FLOOR, PROVIDE CLEANOUT AT BASE.
 4. INSTALL NEW FIXTURE AND CONNECT TO EXISTING SANITARY AND VENT PIPING.



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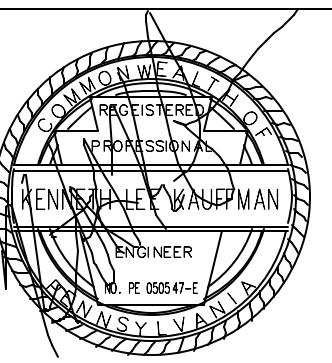


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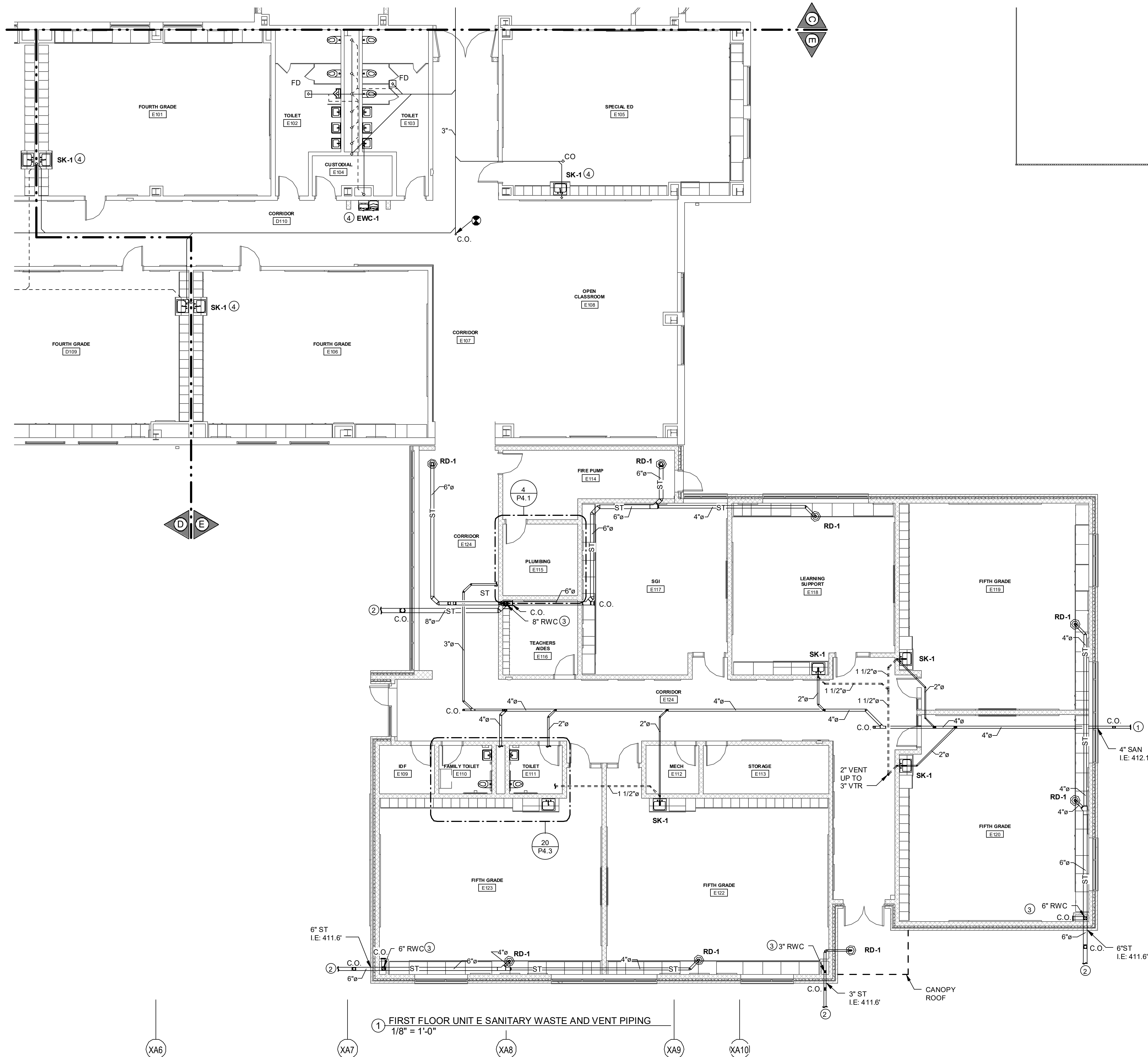
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FIRST FLOOR UNIT D
SANITARY WASTE & VENT
PIPING
PLOTS/SCALE
1/8" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758
P3.4



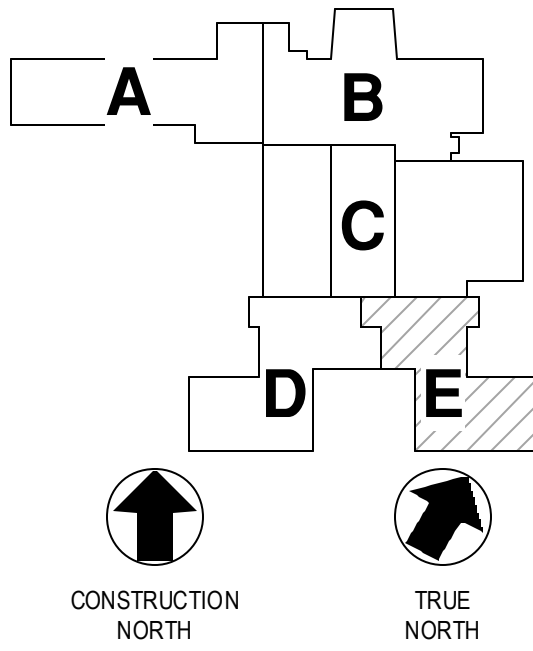
- DRAWING NOTES:**
1. RUN SANITARY PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING PROVIDE CLEANOUT.
 2. RUN STORM PIPING 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING PROVIDE CLEANOUT.
 3. RUN STORM WATER (RWC) DOWN TO BELOW FLOOR, PROVIDE CLEANOUT AT BASE.
 4. INSTALL NEW FIXTURE AND CONNECT TO EXISTING SANITARY AND VENT PIPING.



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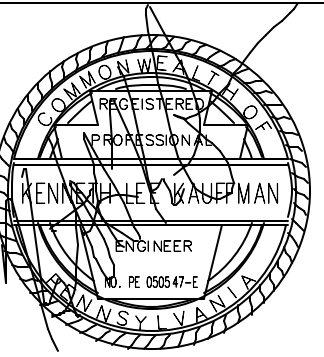
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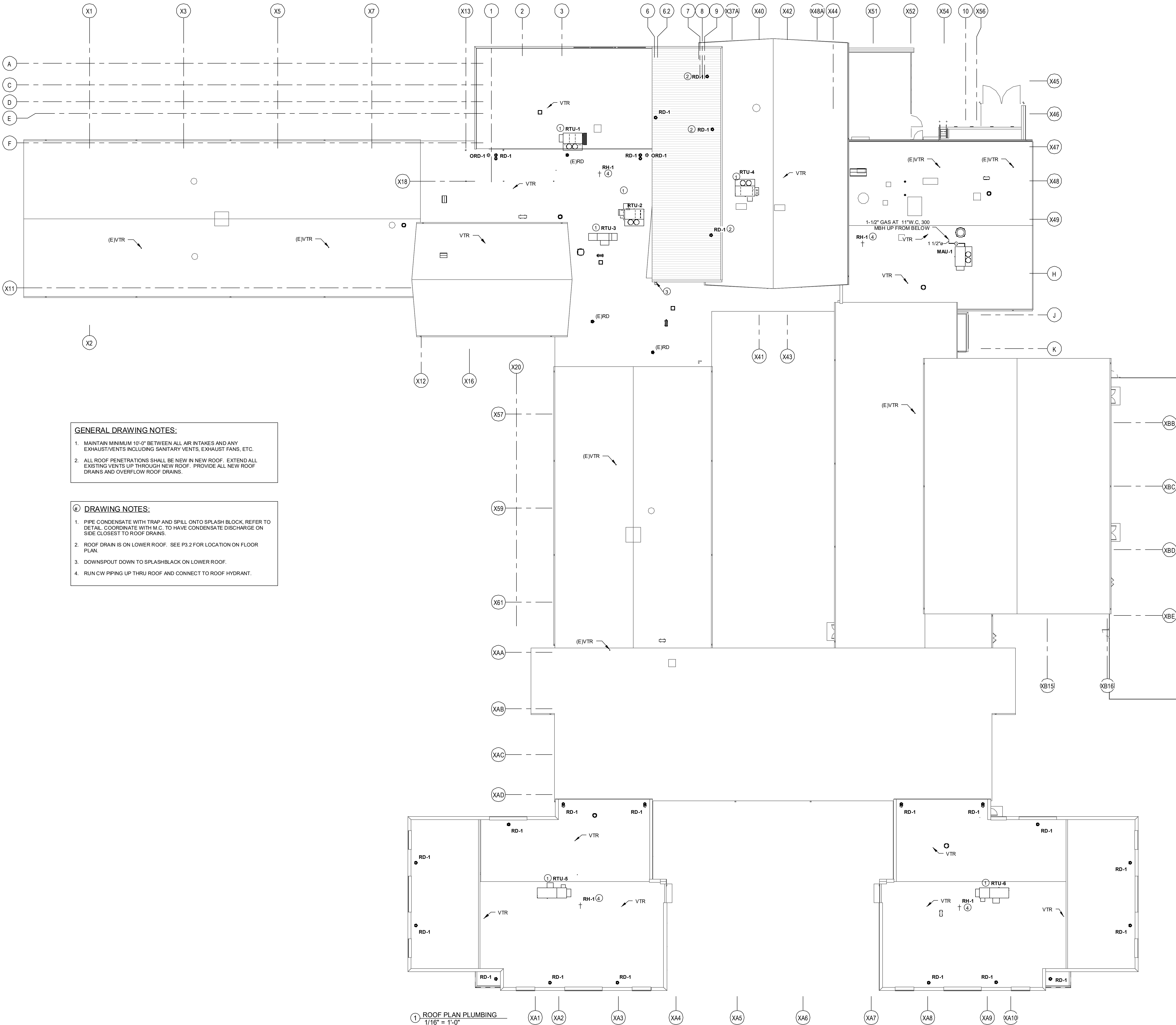


FIRST FLOOR UNIT E
SANITARY WASTE & VENT
PIPING

PLOTS: 1/8" = 1'-0"
FILENAME: 24056
DATE: MARCH 10, 2025

PROJECT
3758

P3.5



GENERAL DRAWING NOTES:

1. MAINTAIN MINIMUM 10'-0" BETWEEN ALL AIR INTAKES AND ANY EXHAUST/VENTS INCLUDING SANITARY VENTS, EXHAUST FANS, ETC.
2. ALL ROOF PENETRATIONS SHALL BE NEW IN NEW ROOF. EXTEND ALL EXISTING VENTS UP THROUGH NEW ROOF. PROVIDE ALL NEW ROOF DRAINS AND OVERFLOW ROOF DRAINS.

DRAWING NOTES:

1. PIPE CONDENSATE WITH TRAP AND SPILL ONTO SPLASH BLOCK. REFER TO DETAIL. COORDINATE WITH M.C. TO HAVE CONDENSATE DISCHARGE ON SIDE CLOSEST TO ROOF DRAINS.
2. ROOF DRAIN IS ON LOWER ROOF. SEE P3.2 FOR LOCATION ON FLOOR PLAN.
3. DOWNSPOUT DOWN TO SPLASHBLACK ON LOWER ROOF.
4. RUN CW PIPING UP THRU ROOF AND CONNECT TO ROOF HYDRANT.

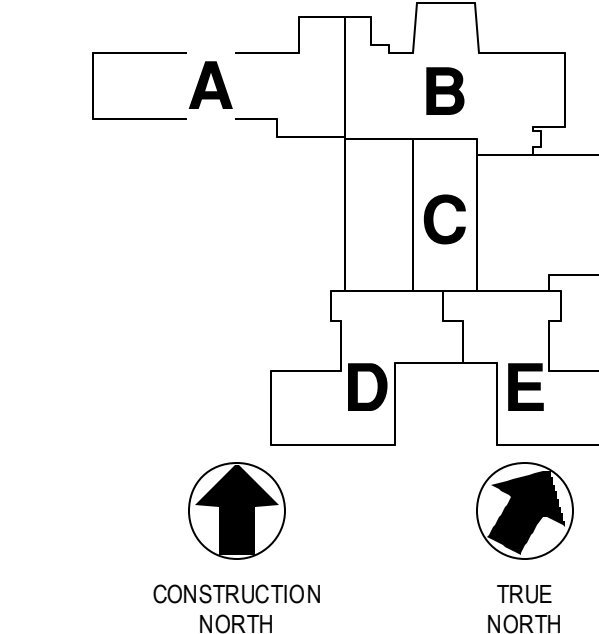
1 ROOF PLAN PLUMBING
1/16" = 1'-0"



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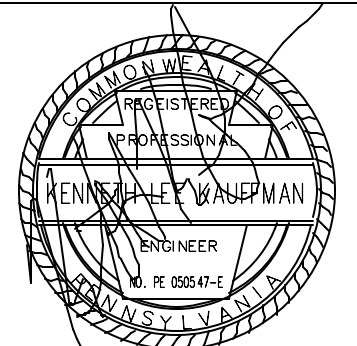


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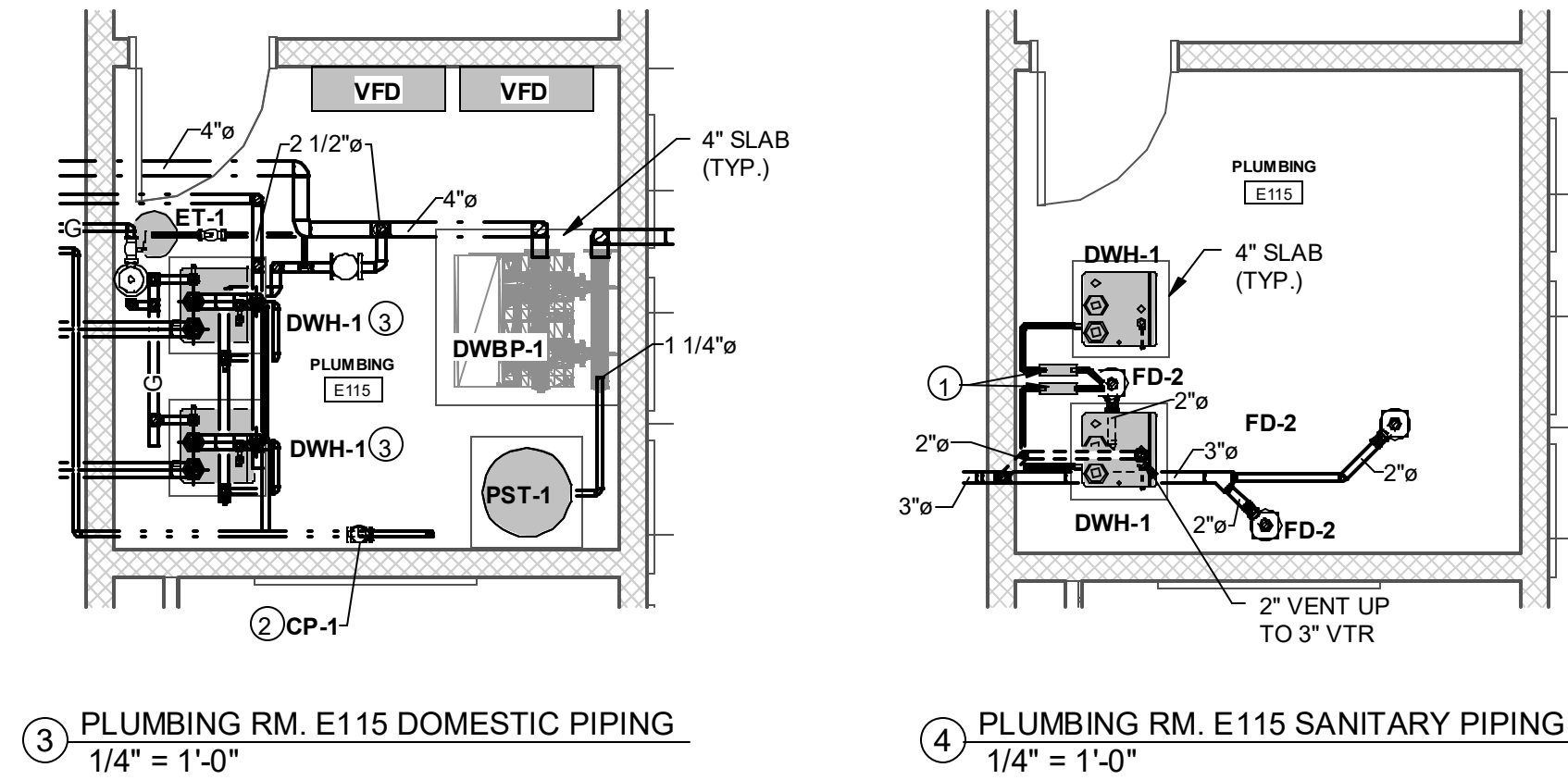
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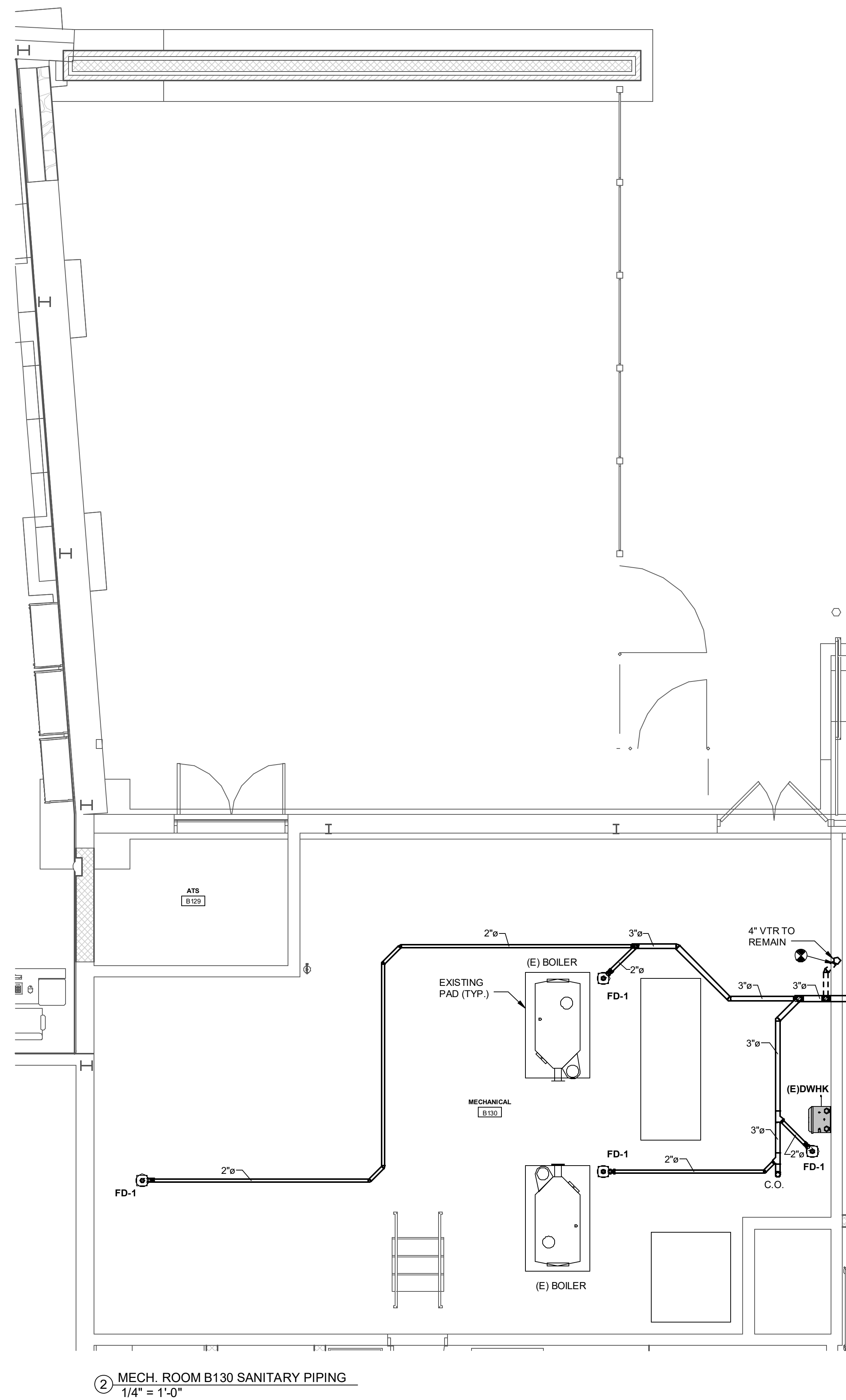
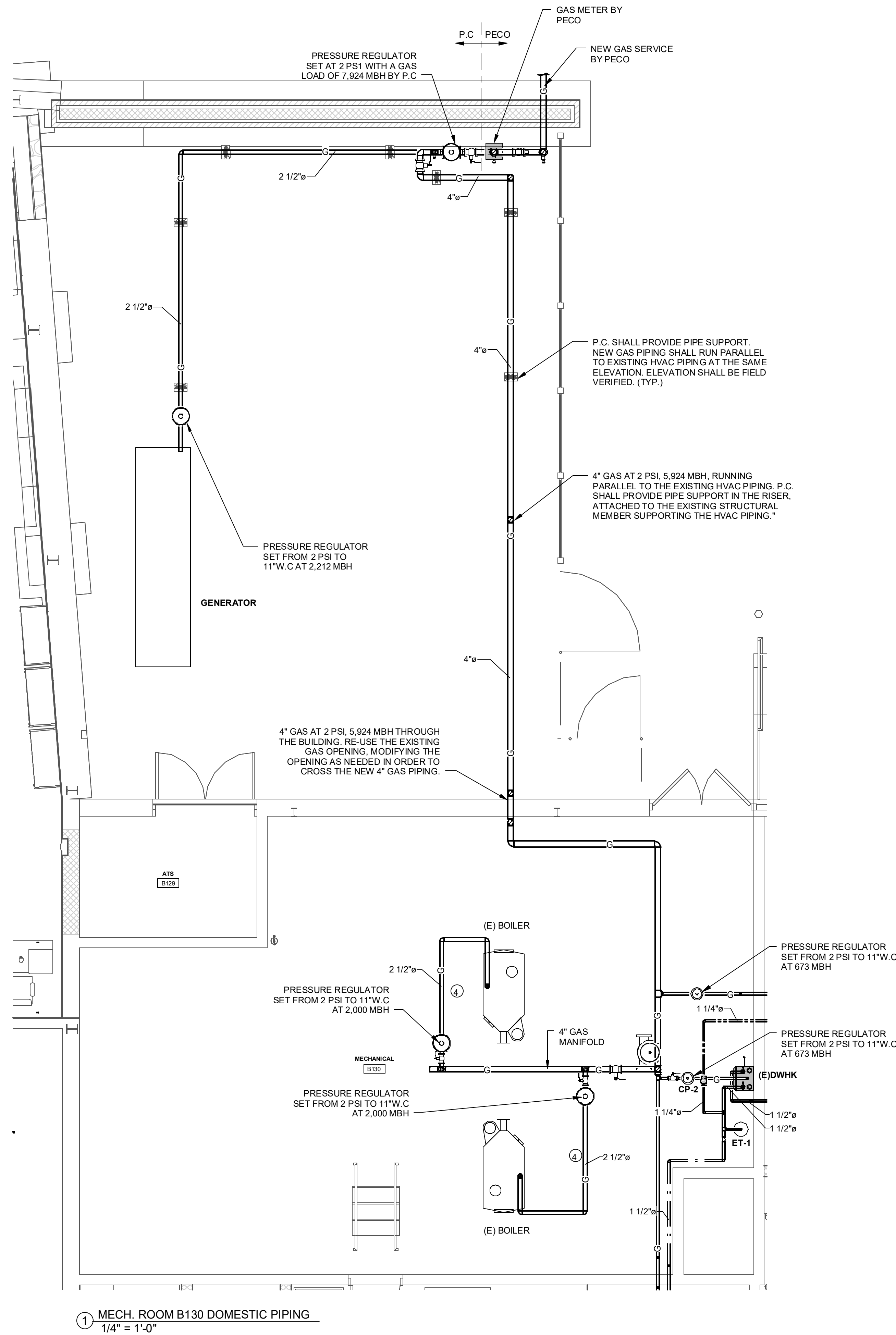


ROOF PLUMBING
PLOTS CALE
1/16" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758
P3.6



- DRAWING NOTES:**
1. THE WATER HEATER SHALL BE PROVIDED WITH AN IN-LINE ACID NEUTRALIZER SYSTEM IN THE CONDENSATE LINE AS PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. THE DOMESTIC HOT WATER CIRCULATOR PUMP (CP-1) SHALL BE INSTALLED BETWEEN 24" TO 48" FROM THE FINISH FLOOR.
 3. DOMESTIC WATER HEATER (DWH-1) SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL.
 4. KEEP A MINIMUM DISTANCE OF 10'-0" FROM GAS PRESSURE REGULATOR TO A BOILER INLET.



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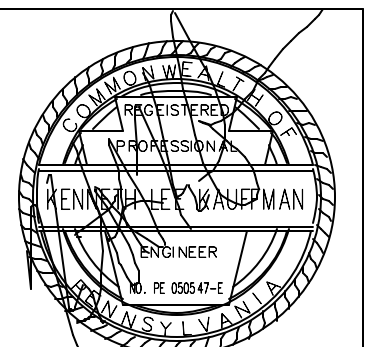
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REVISIONS

NO.	DATE	NAME	DESCRIPTION OF CHANGES

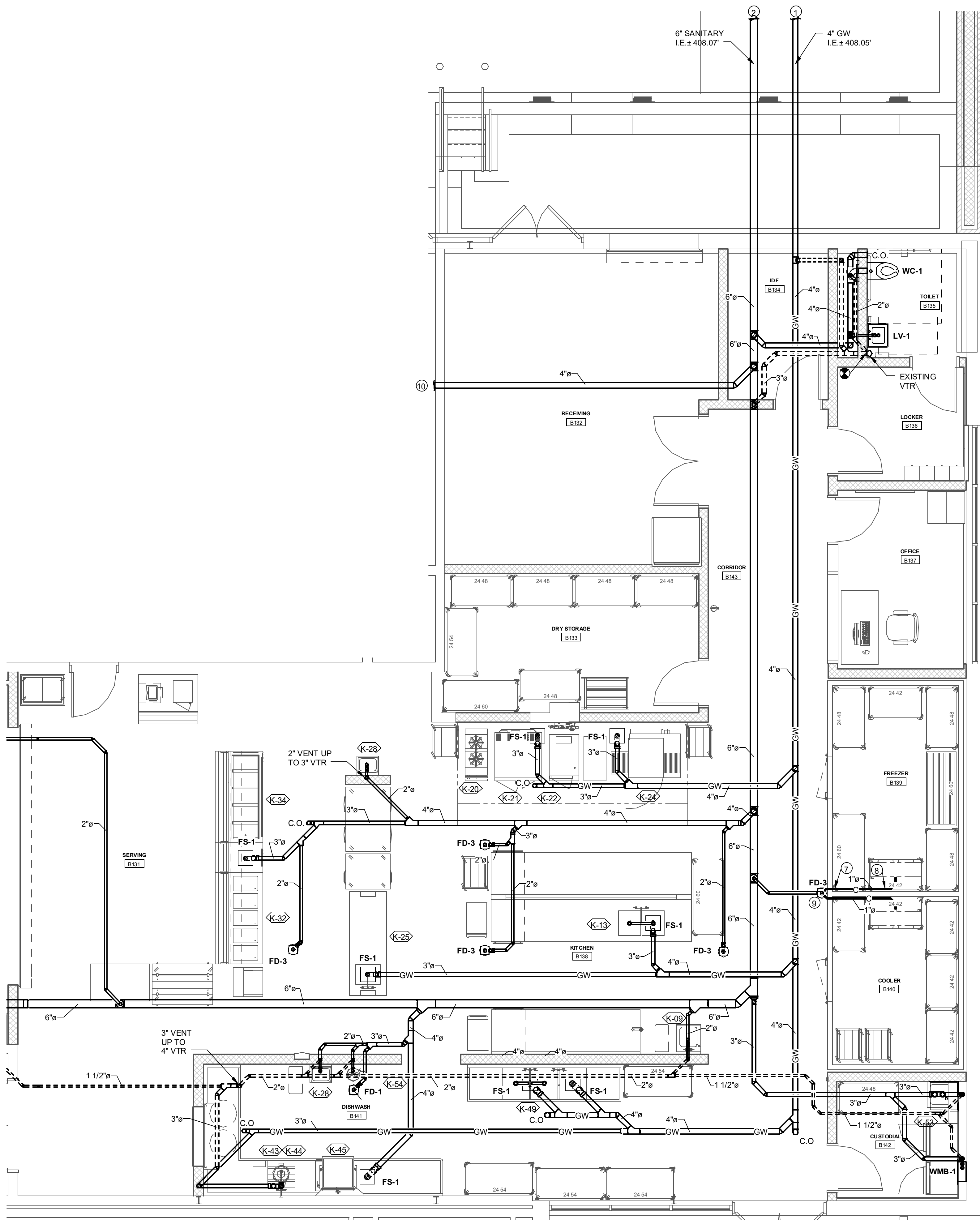
CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
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CHARLOTTEVILLE, VIRGINIA
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401 EAST WINDING HILL ROAD
MECHANICSBURG PA 17055
717-458-0272

ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010



ENLARGED PLANS
PLOTS/SCALE
1/4" = 1'-0"
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758
P4.1



② KITCHEN B138 SANITARY PIPING
1/4" = 1'-0"

DRAWING NOTES:

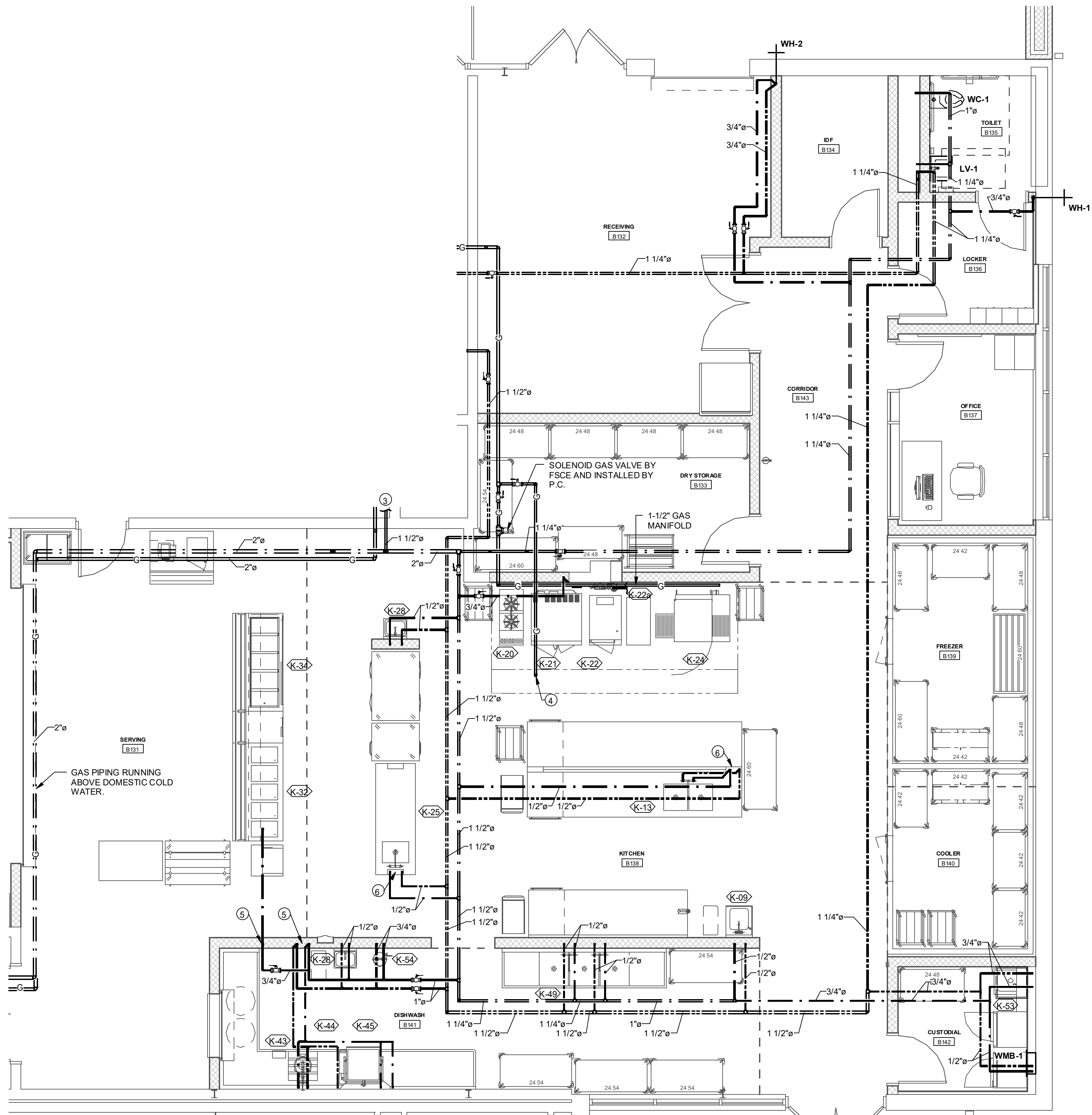
1. RUN GREASE WASTE SANITARY 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. SEE P1.0 FOR CONTINUATION.
2. RUN SANITARY 5'-0" FROM BUILDING AND CONNECT TO SITE PIPING. SEE P1.0 FOR CONTINUATION.
3. 1-1/2" CW TO DWHK IN BOILER ROOM.
4. 1-1/2" GAS AT 11"W.C. 300 MBH UP TO ROOF. FOR CONTINUATION REFER TO SHEET P3.6.
5. RUN PIPING DOWN TO BELOW FLOOR, RUN PIPING BELOW FLOOR IN PVC SLEEVE. SLEEVE SHALL TURN UP TO 6" ABOVE FINISHED FLOOR. PROVIDE ACCESS PANEL IN WALL.
6. DOMESTIC WATER PIPES DOWN IN UTILITY CHASE PROVIDED BY FOOD CONSULTANTS.
7. CONDENSATE PIPE DOWN IN WALL TO SPILL INTO A FLOOR DRAIN WITH AN INDIRECT CONNECTION.
8. PROVIDE HEAT TAPE INSULATION CONDENSATE IN COOLER AND FREEZER.
9. PROVIDE FD-3 WITH FUNNEL DRAIN.
10. 4" SANITARY FROM BOILER ROOM.

FOOD SERVICE EQUIPMENT PLUMBING CONNECTION SCHEDULE

ITEM	EQUIPMENT DESCRIPTION	WATER		WASTE		GAS	MBTU/HR	REMARKS
		COLD	HOT	DIRECT	INDIRECT			
K-09 *	ADA HAND SINK	1/2"	* 1/2"	1 1/2"				
K-13	WORK TABLE WITH SINKS	1/2"	1/2"		2 @ 2"			
K-20	2-BURNER RANGE					3/4"	48	
K-21	DOUBLE DECK CONVECTION OVEN					1"	120	
K-22	DOUBLE DECK CONVECTION STEAMER	1/2"			1-1/2"	3/4"	125	RUN 3/4" CW FROM K-22 TO DRAIN TEMPERING DEVICE
K-22a	WATER FILTER	3/4"						
K-24	DOUBLE DECK CONVEYOR OVEN					(2)3/4"	80	
K-25	WORK TABLE WITH SINK	1/2"	1/2"		2"			
K-28 *	HAND SINK	1/2"	* 1/2"	1 1/2"				
K-32	HOT FOOD COUNTER	3/4"			1"			RUN 3/4" CW FROM K-32 TO DRAIN TEMPERING DEVICE
K-34	COLD FOOD COUNTER				1"			
K-43	3-HP DISPOSER W/ CONTROL	1/2"		2"				
K-44	PRE-RINSE SPRAY ASSEMBLY	1/2"	1/2"					
K-45	DISH MACHINE	(2)1/2"	1/2"		1 1/2"			RUN 1/2" CW FROM K-45 TO DRAIN TEMPERING DEVICE
K-49	3-BOWL POT AND PAN SINK	1/2"	1/2"		3 @ 2"			
K-53	MOP SINK	1/2"	1/2"	2"				
K-54	EYE WASH STATION	1/2"	1/2"	1-1/4"				F.S.C SHALL PROVIDE EYEWASH WITH MIXING VALVE IN ACCORDANCE WITH ASSE 1071

- NOTES: 1. ALL FOOD SERVICE EQUIPMENT AND FIXTURES PROVIDED AND INSTALLED BY FOOD SERVICE CONTRACTOR. CONNECTIONS TO THE EQUIPMENT LISTED ABOVE ARE BY THE P.C.; REFER TO FOOD SERVICE DRAWINGS FOR ALL ROUGH-IN HEIGHTS.
2. P.C. SHALL SUPPLY ALL NECESSARY FITTINGS REQUIRED TO MAKE FINAL CONNECTIONS TO THE LISTED EQUIPMENT. FITTINGS SHALL INCLUDE, BUT NOT LIMITED TO, VALVES, TRAPS, TAILPIECES AND WASTE / SUPPLY PIPING. REFER TO THE KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE 140°F DOMESTIC HOT WATER TO ALL FIXTURES SCHEDULED ABOVE UNLESS NOTED OTHERWISE.

* PROVIDE THERMOSTATIC MIXING VALVE IN SUPPLY PIPING TO FIXTURE IN ACCORDANCE WITH ASSE 1070



① KITCHEN B138 DOMESTIC PIPING
1/4" = 1'-0"



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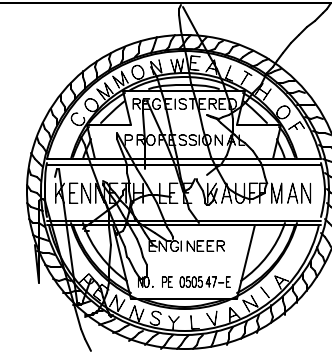
REVISIONS

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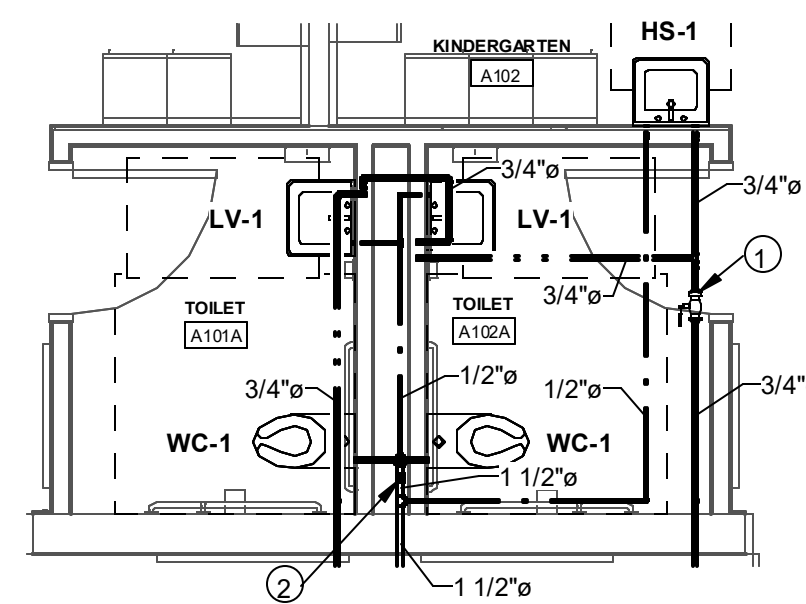


ENLARGED PLANS

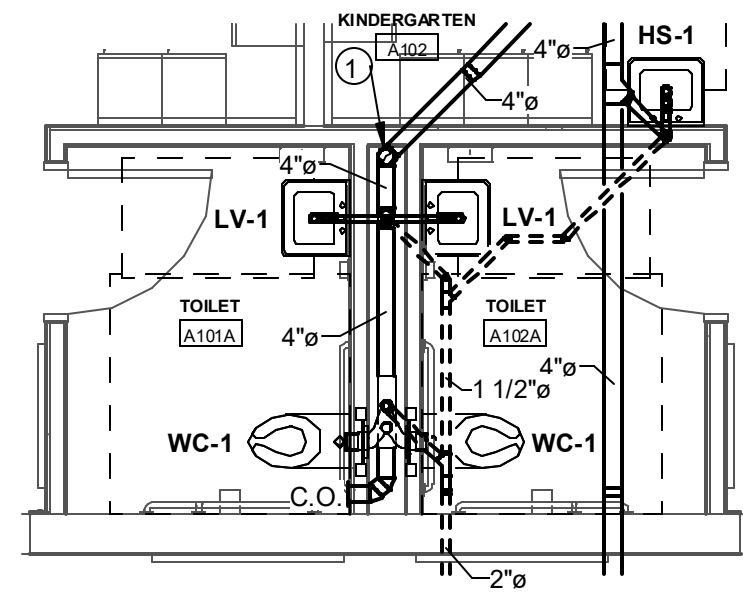
PLOTS/SCALE
As indicated
FILENAME
240066
DATE
MARCH 10, 2025

PROJECT
3758

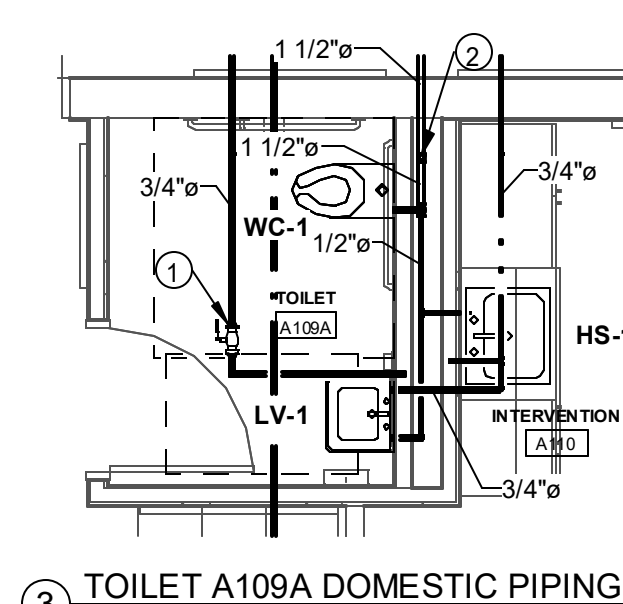
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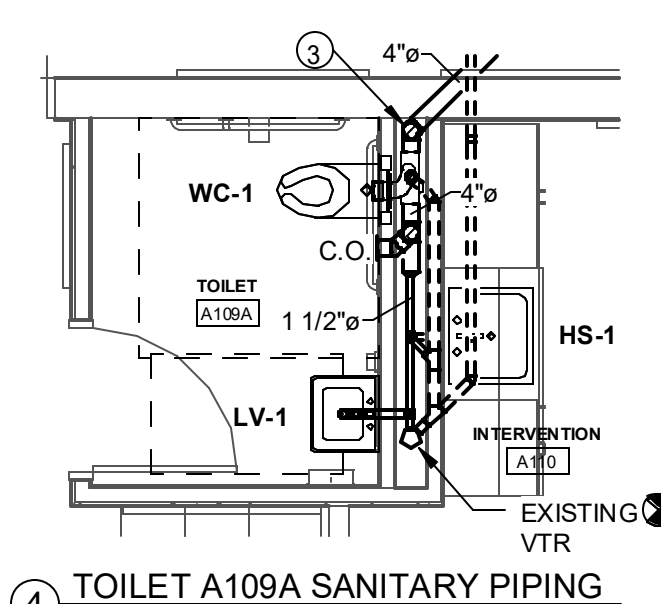
① TOILETS A101A & A102A DOMESTIC PIPING
1/4" = 1'-0"



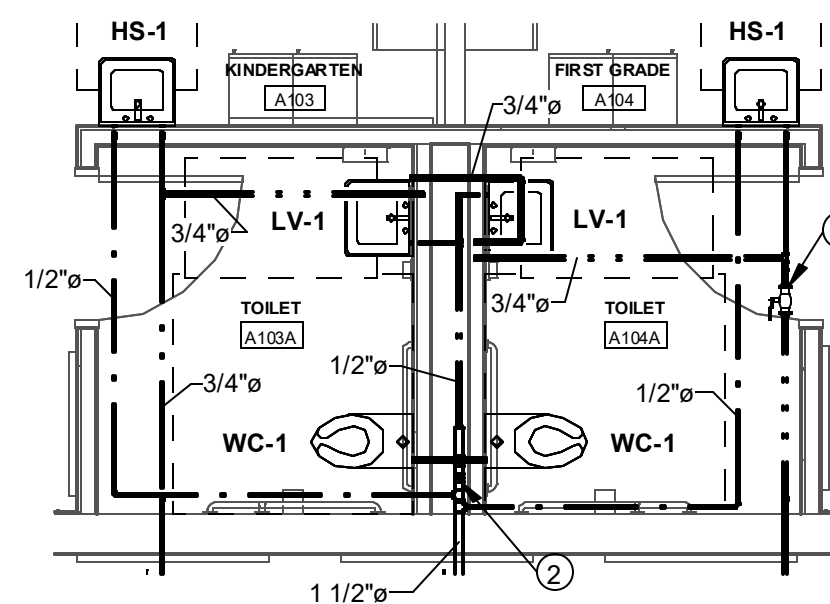
② TOILETS A101A & A102 SANITARY PIPING
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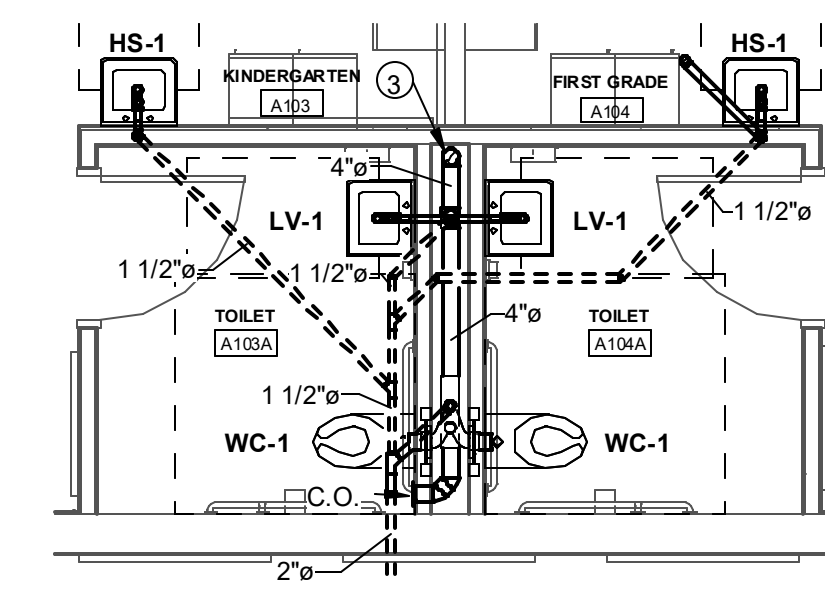
③ TOILET A109A DOMESTIC PIPING
1/4" = 1'-0"



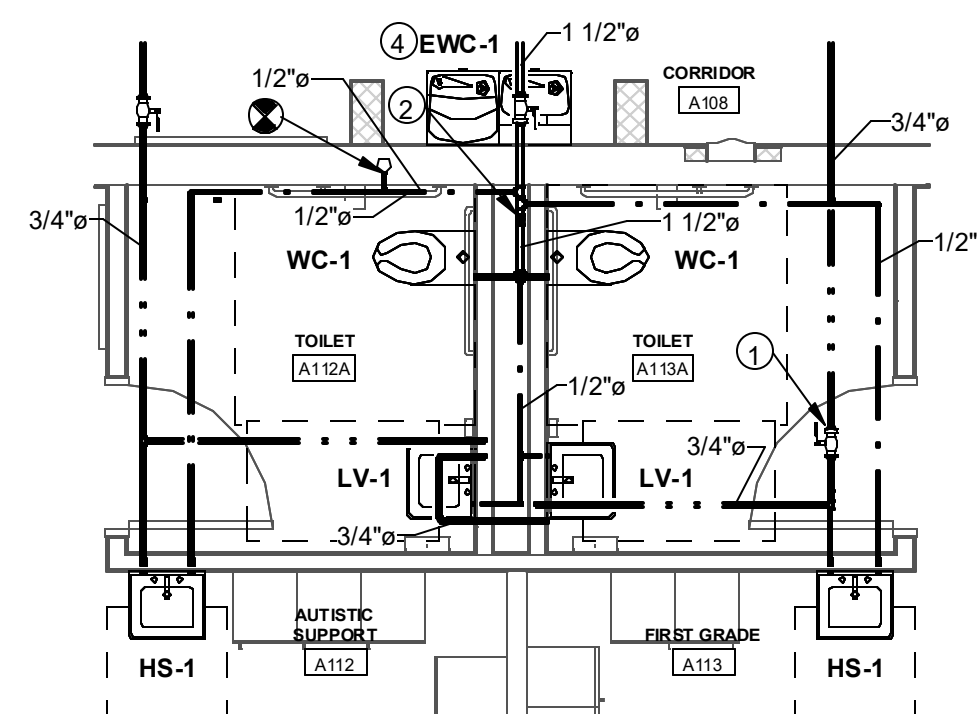
④ TOILET A109A SANITARY PIPING
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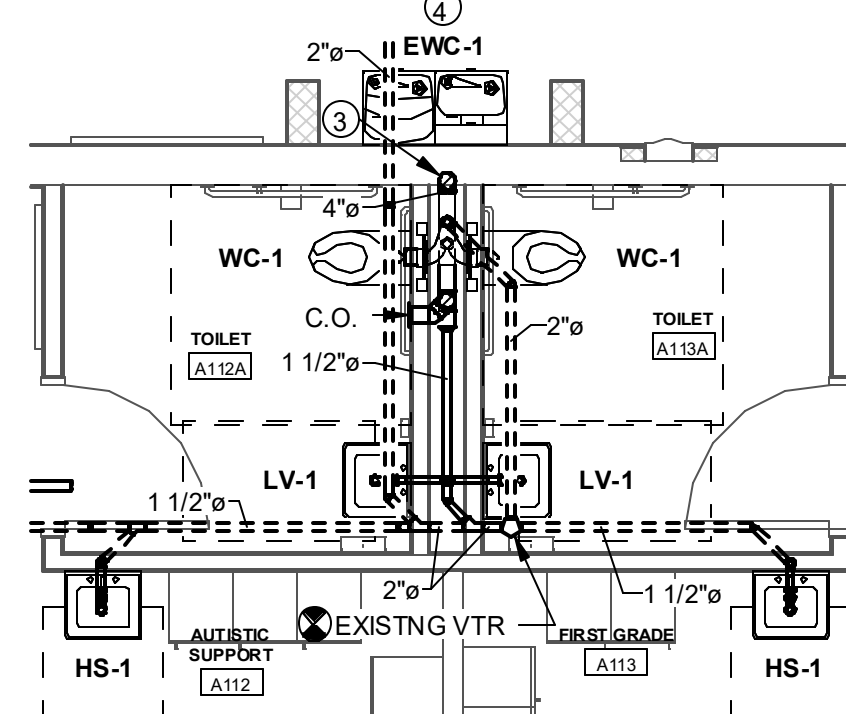
⑤ TOILETS A103A & A104A DOMESTIC PIPING
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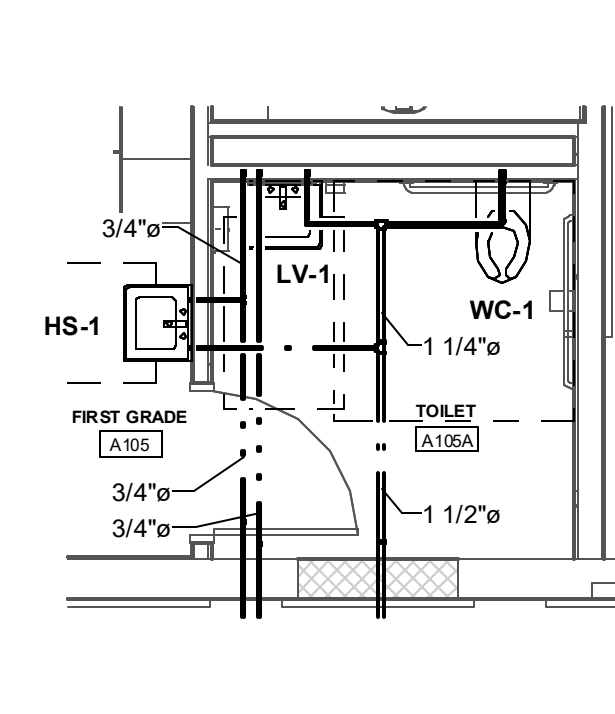
⑥ TOILETS A103A & A104A SANITARY PIPING
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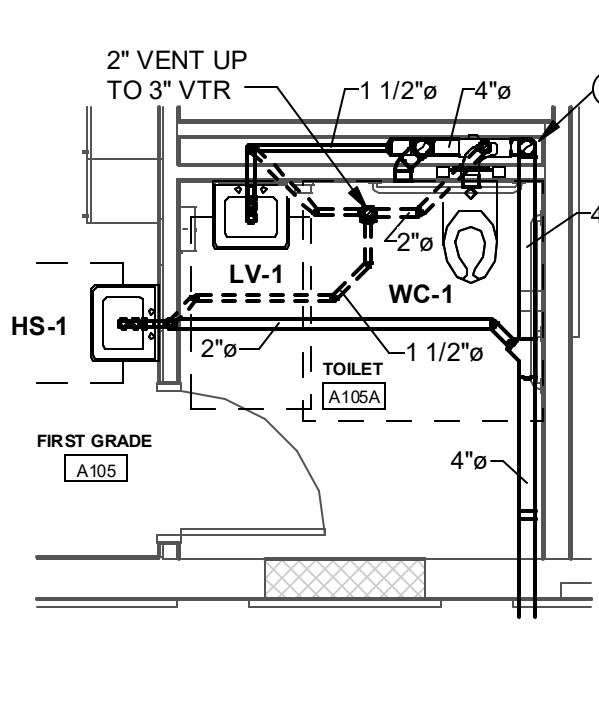
⑦ TOILETS A112A & A113A DOMESTIC PIPING
1/4" = 1'-0"



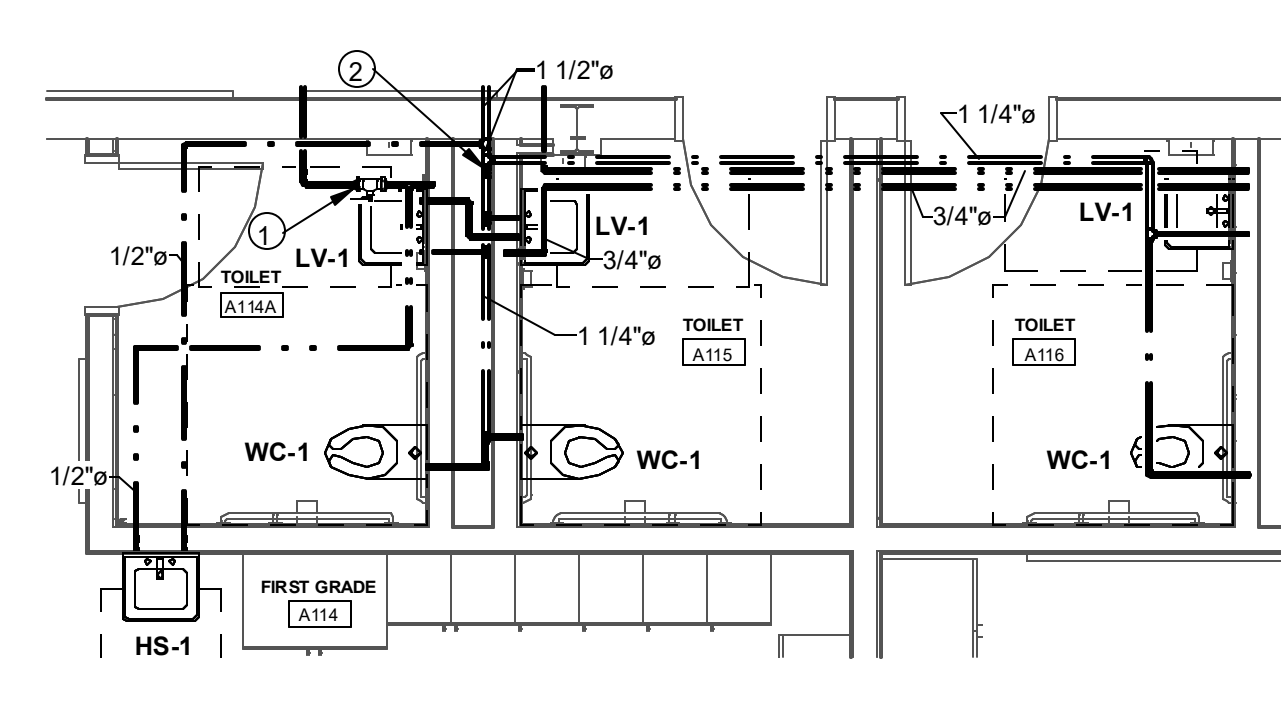
⑧ TOILETS A112A & A113A SANITARY PIPING
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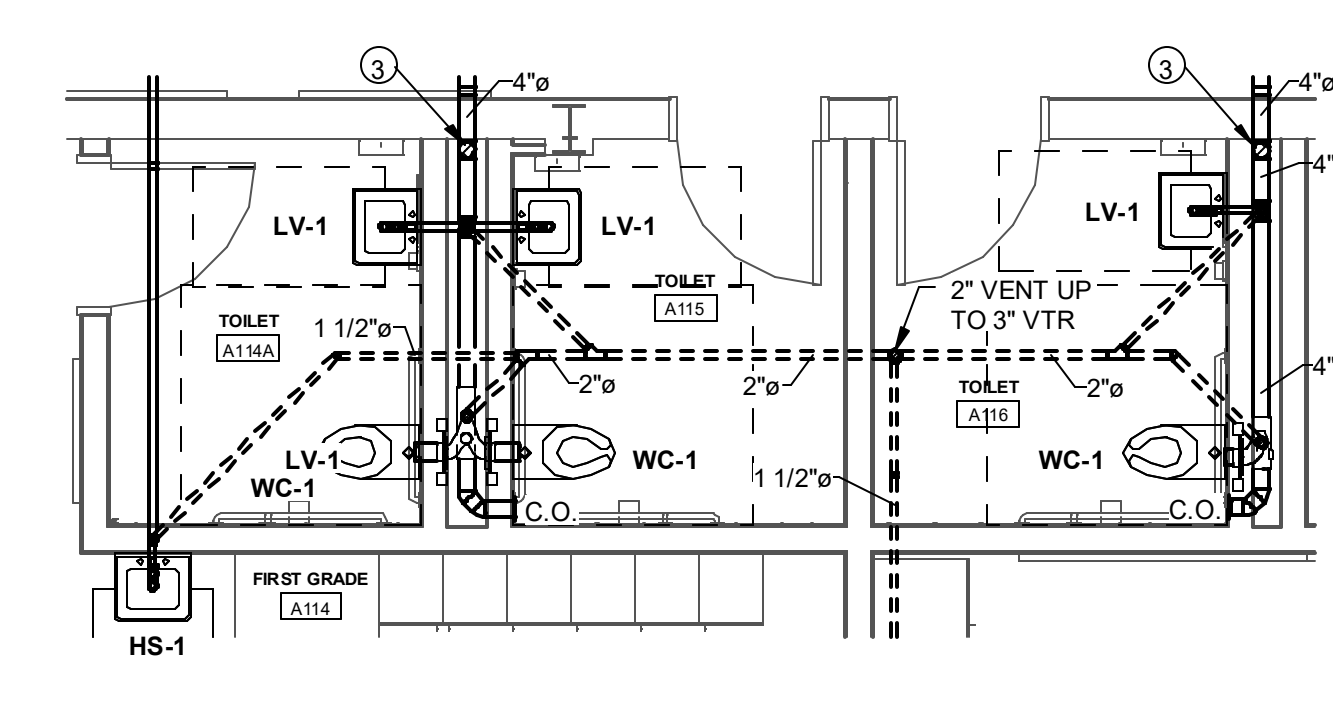
⑨ TOILET A105A DOMESTIC PIPING
1/4" = 1'-0"



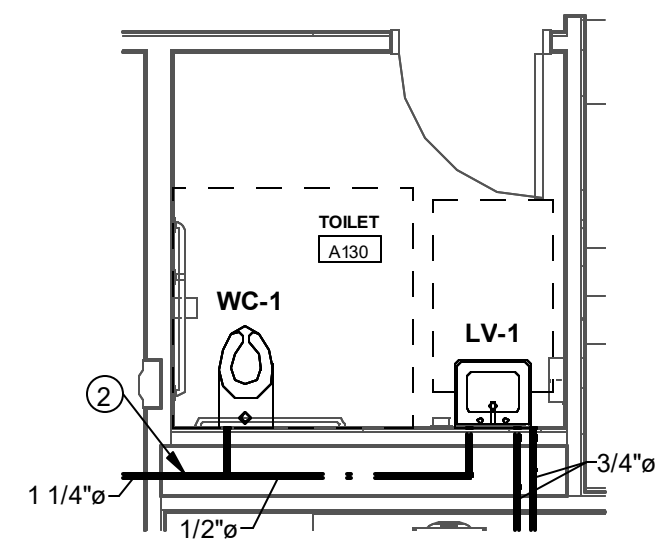
⑩ TOILET A105A SANITARY PIPING
1/4" = 1'-0"



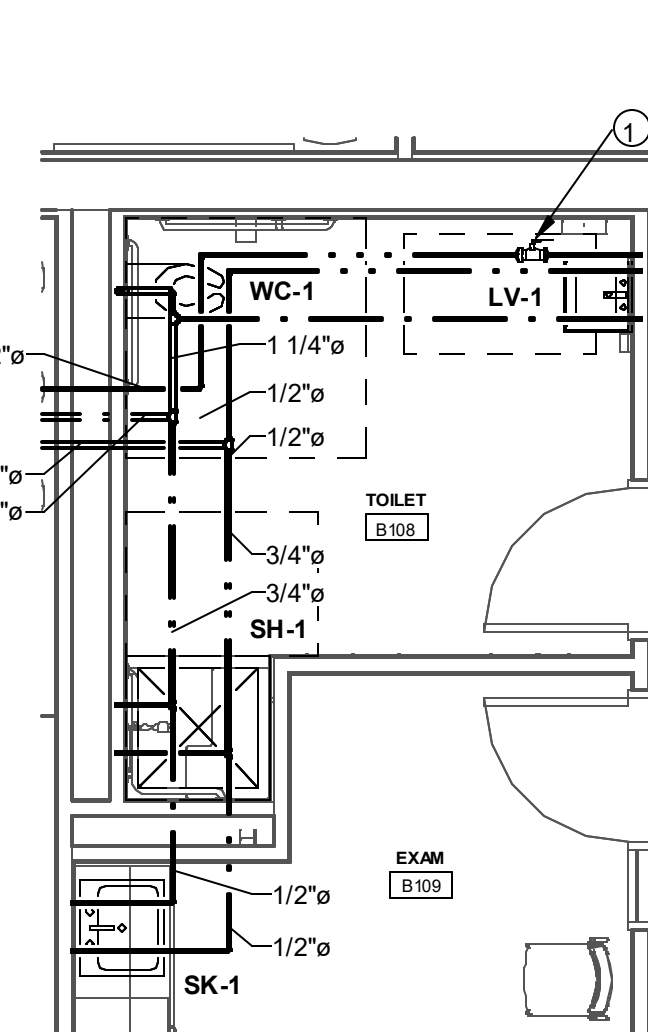
⑪ TOILETS A114A, A115, A116 DOMESTIC PIPING
1/4" = 1'-0"



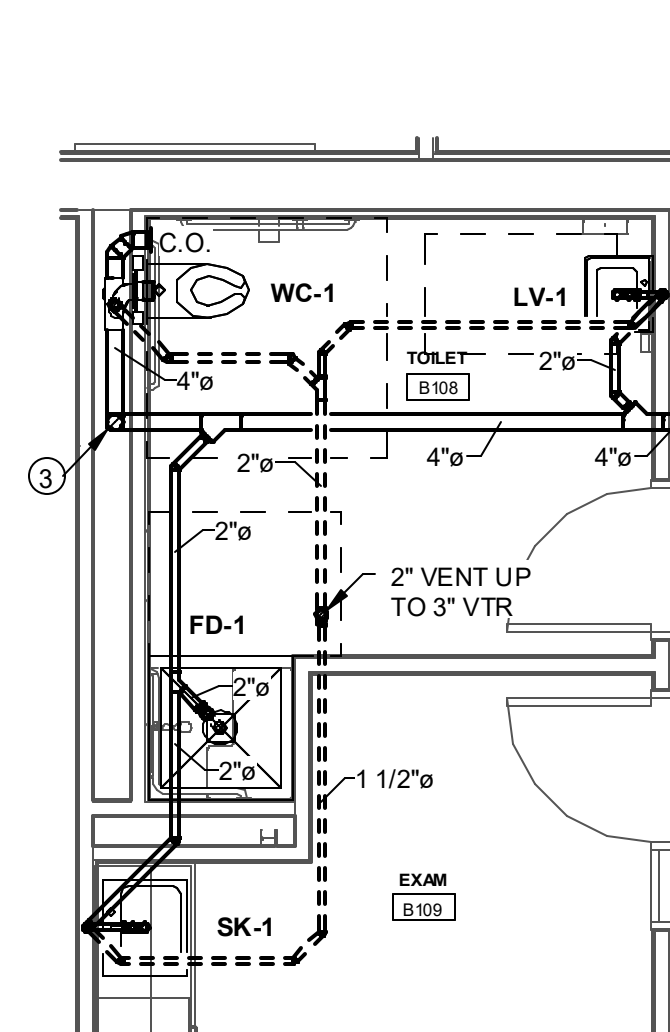
⑫ TOILETS A114A, A115, A116 SANITARY PIPING
1/4" = 1'-0"



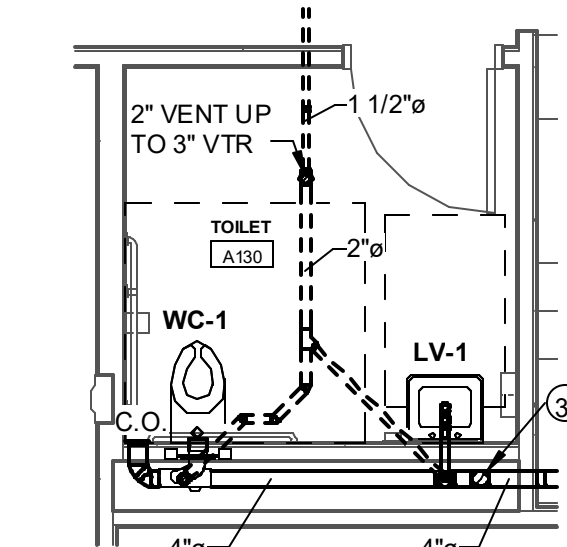
⑬ TOILET A130 DOMESTIC PIPING
1/4" = 1'-0"



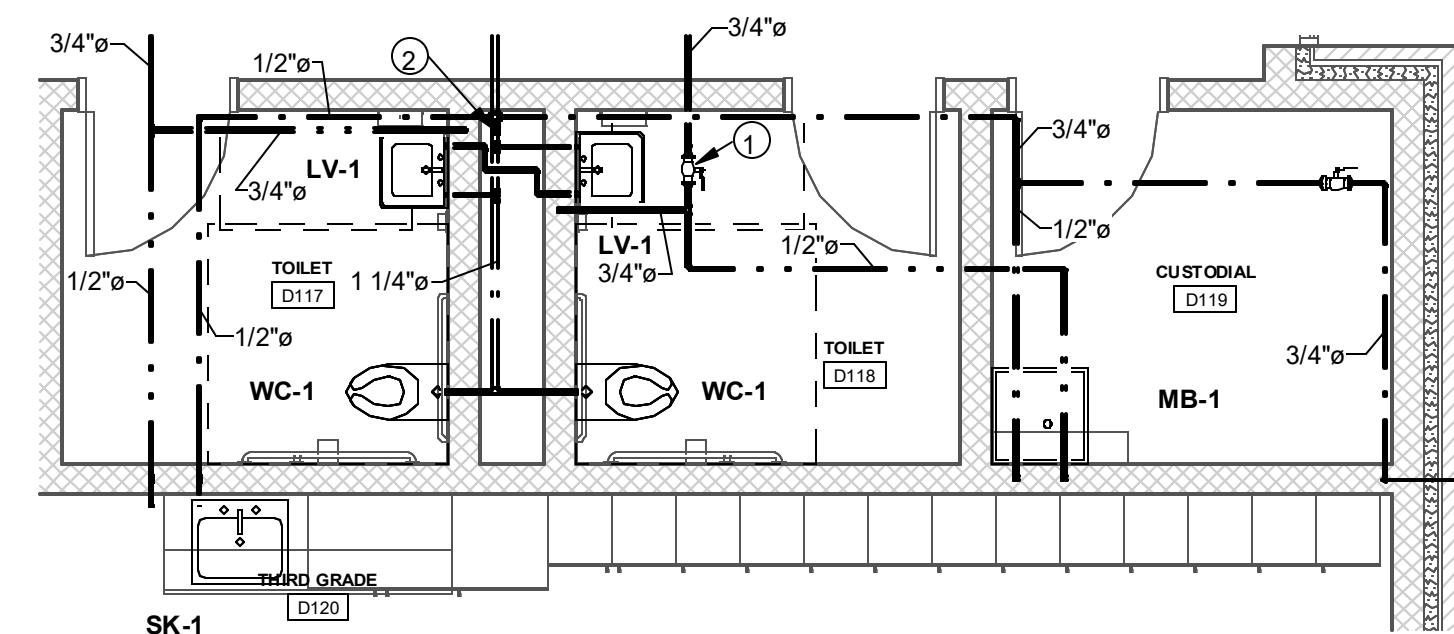
⑮ TOILET B108 DOMESTIC PIPING
1/4" = 1'-0"



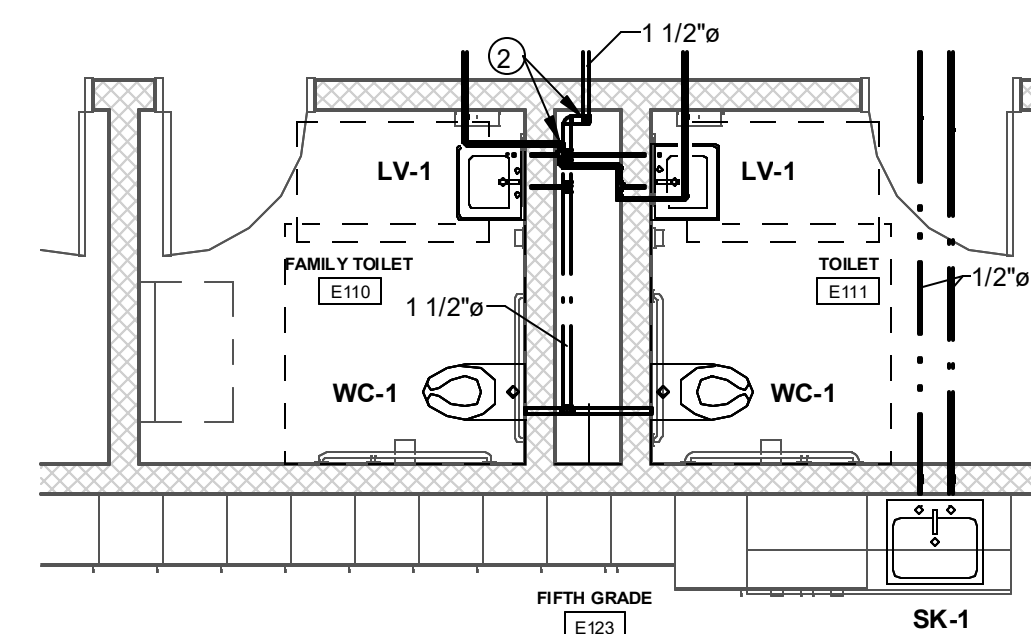
⑮ TOILET B108 SANITARY PIPING
1/4" = 1'-0"



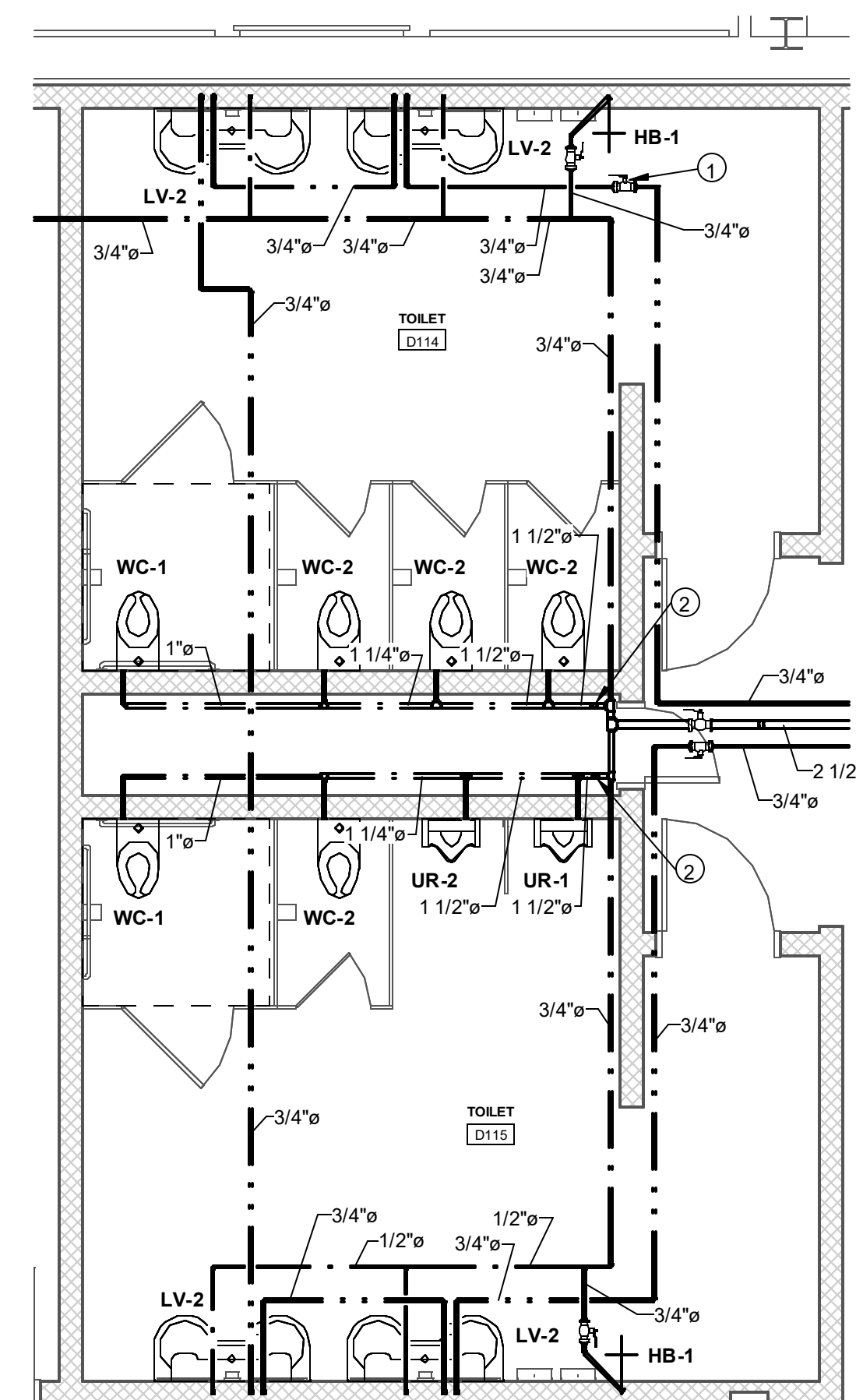
⑭ TOILET A130 SANITARY PIPING
1/4" = 1'-0"



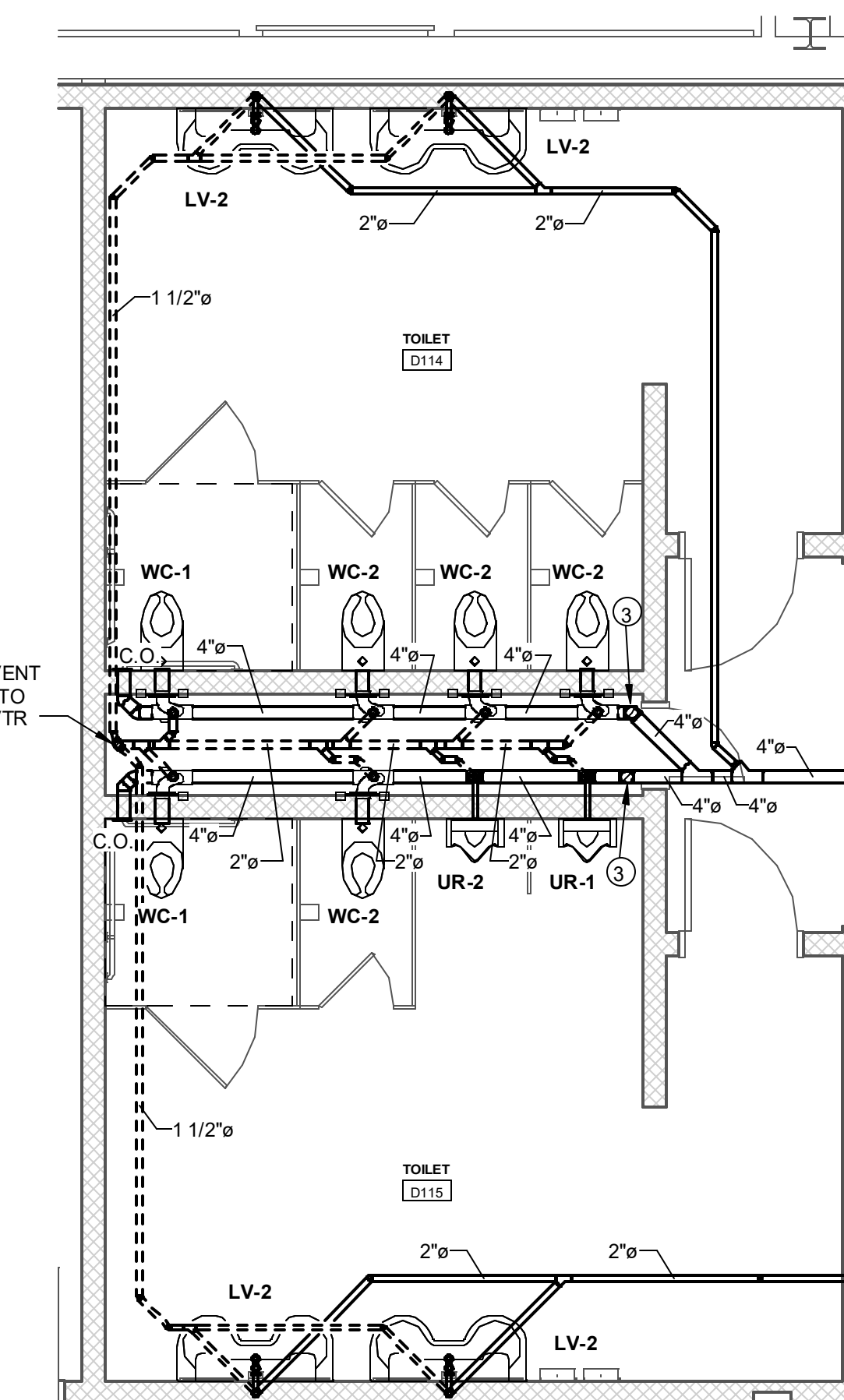
⑰ TOILETS D117 & D118 DOMESTIC PIPING
1/4" = 1'-0"



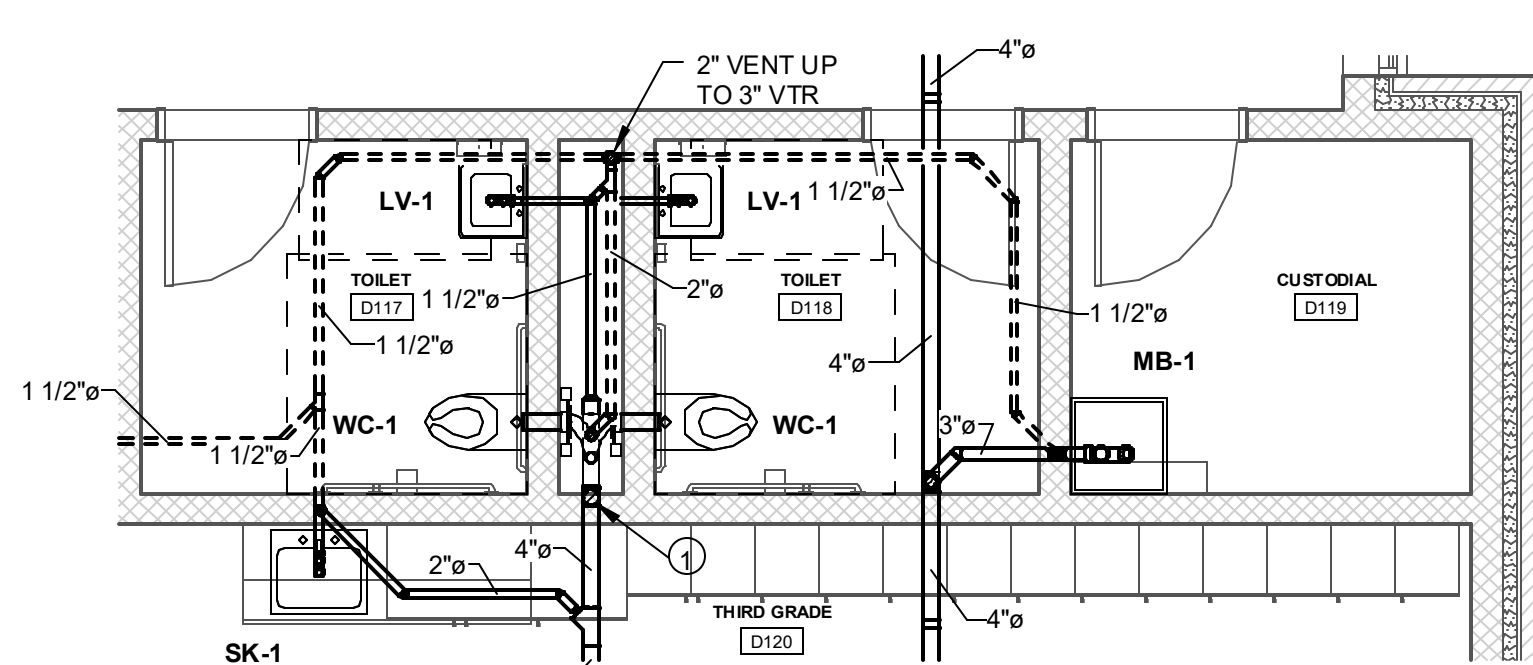
⑰ TOILETS E110 & E111 DOMESTIC PIPING
1/4" = 1'-0"



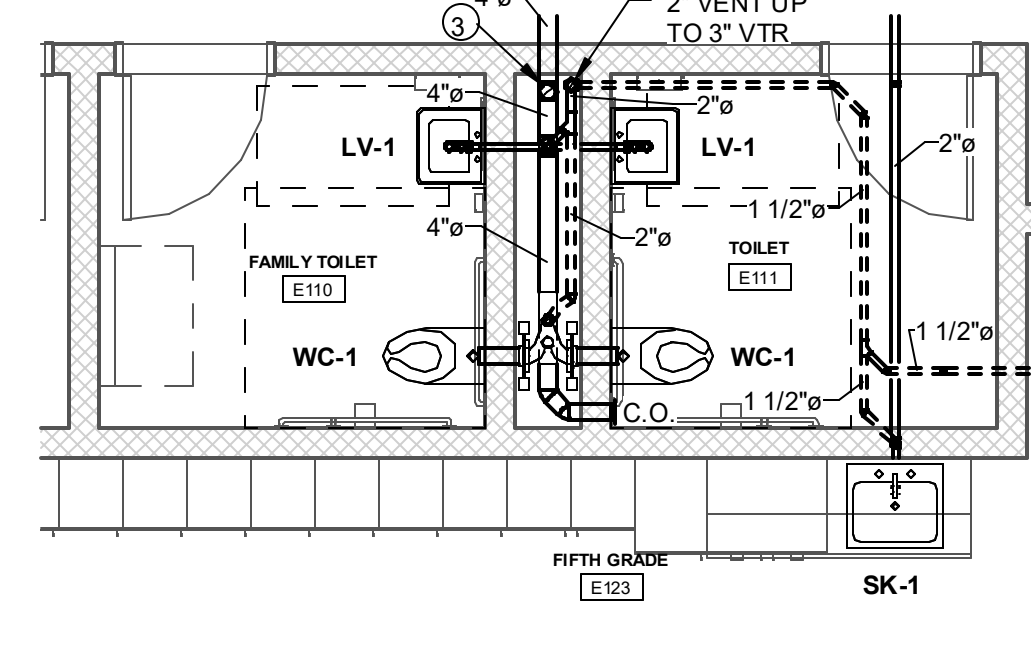
⑳ TOILETS D114 & D115 DOMESTIC PIPING
1/4" = 1'-0"



㉒ TOILETS D114 & D115 SANITARY PIPING
1/4" = 1'-0"



⑱ TOILETS D117 & D118 SANITARY PIPING
1/4" = 1'-0"



㉒ TOILETS E110 & E111 SANITARY PIPING
1/4" = 1'-0"

④ DRAWING NOTES:

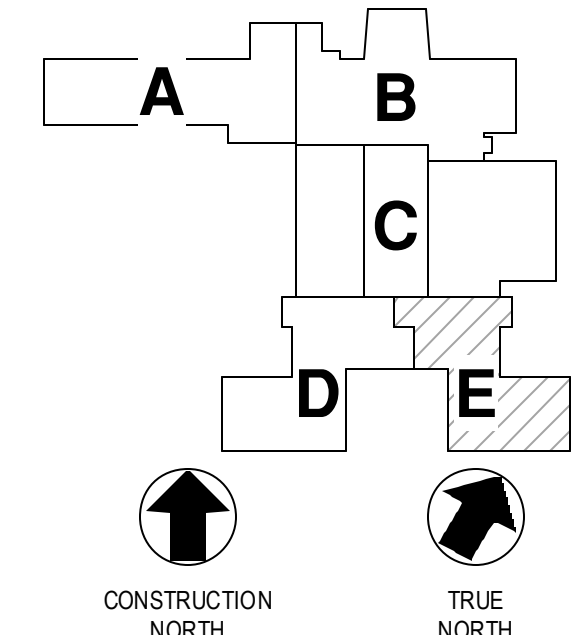
1. INSTALL SHUT-OFF VALVE, CHECK VALVE AND BALANCING VALVE, REFER TO DOMESTIC HW VALVE DETAIL.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. RUN PIPING DOWN TO BELOW FLOOR.
4. CONNECT NEW FIXTURE TO EXISTING PIPING.



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NO	DATE	NAME	DESCRIPTION OF CHANGES

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401 EAST WINDING HILL ROAD

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CHARLOTTEVILLE, VIRGINIA

WHITE SULPHUR SPRINGS, WEST VIRGINIA

ADDITIONS AND RENOVATIONS TO

COOPERTOWN ELEMENTARY SCHOOL

SCHOOL DISTRICT OF HAVERFORD TOWNSHIP

800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010

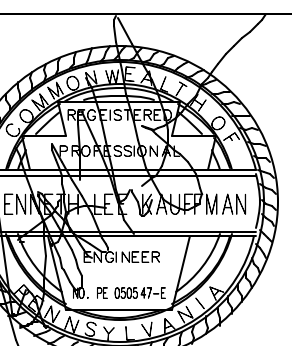


ENLARGED PLANS

PLOTSIZE
1/4" = 1'-0"

FILENAME
240056

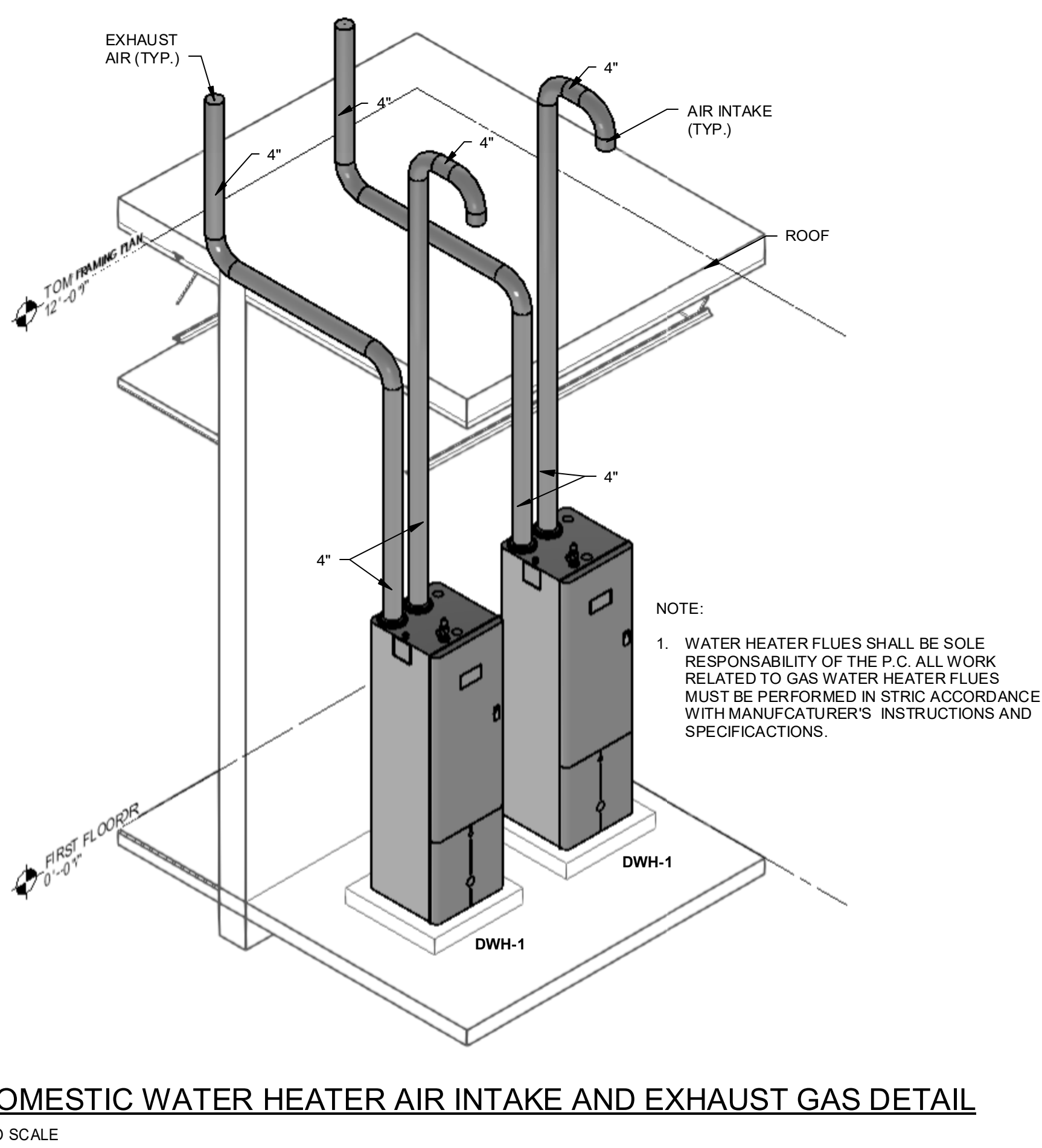
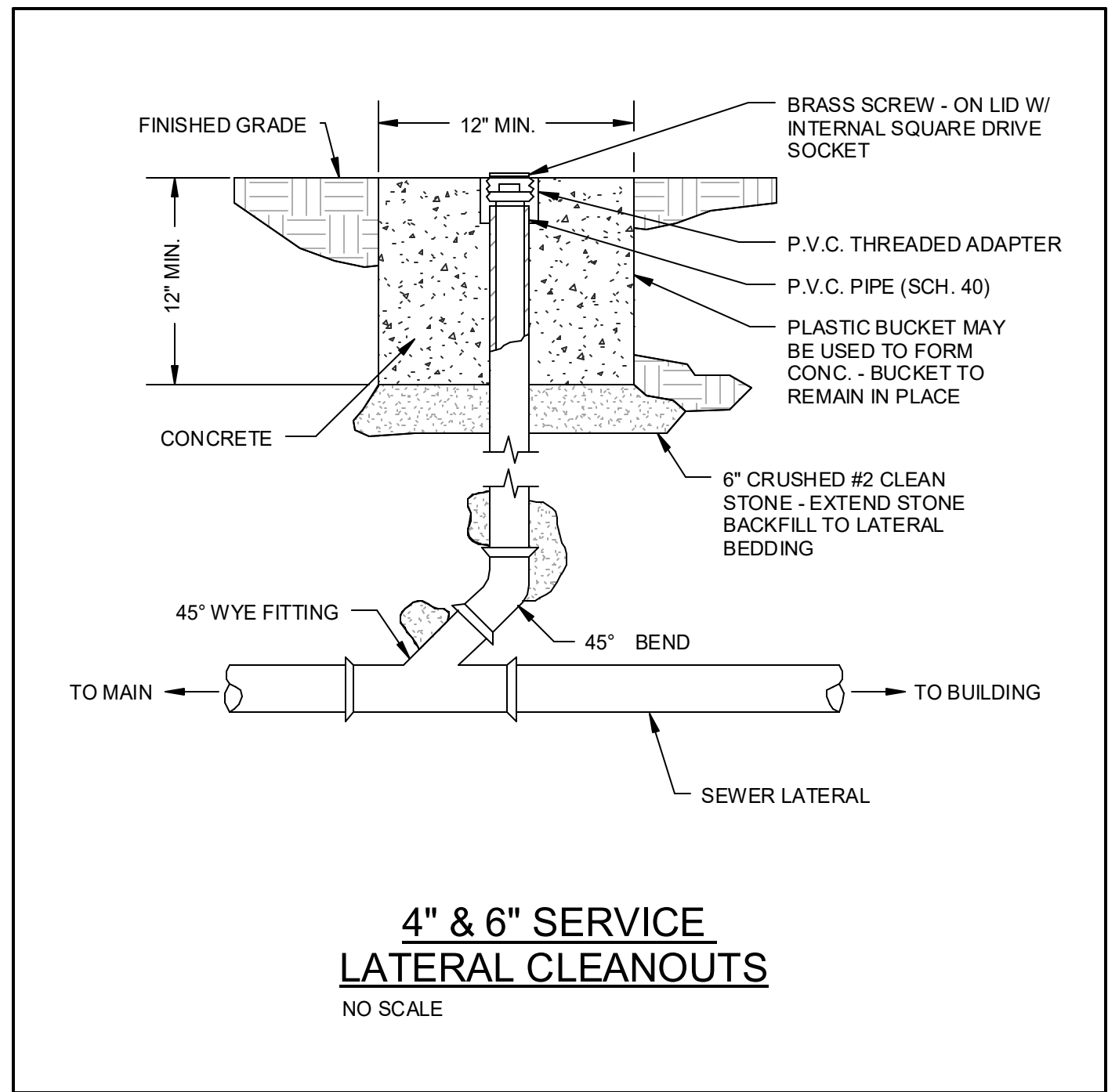
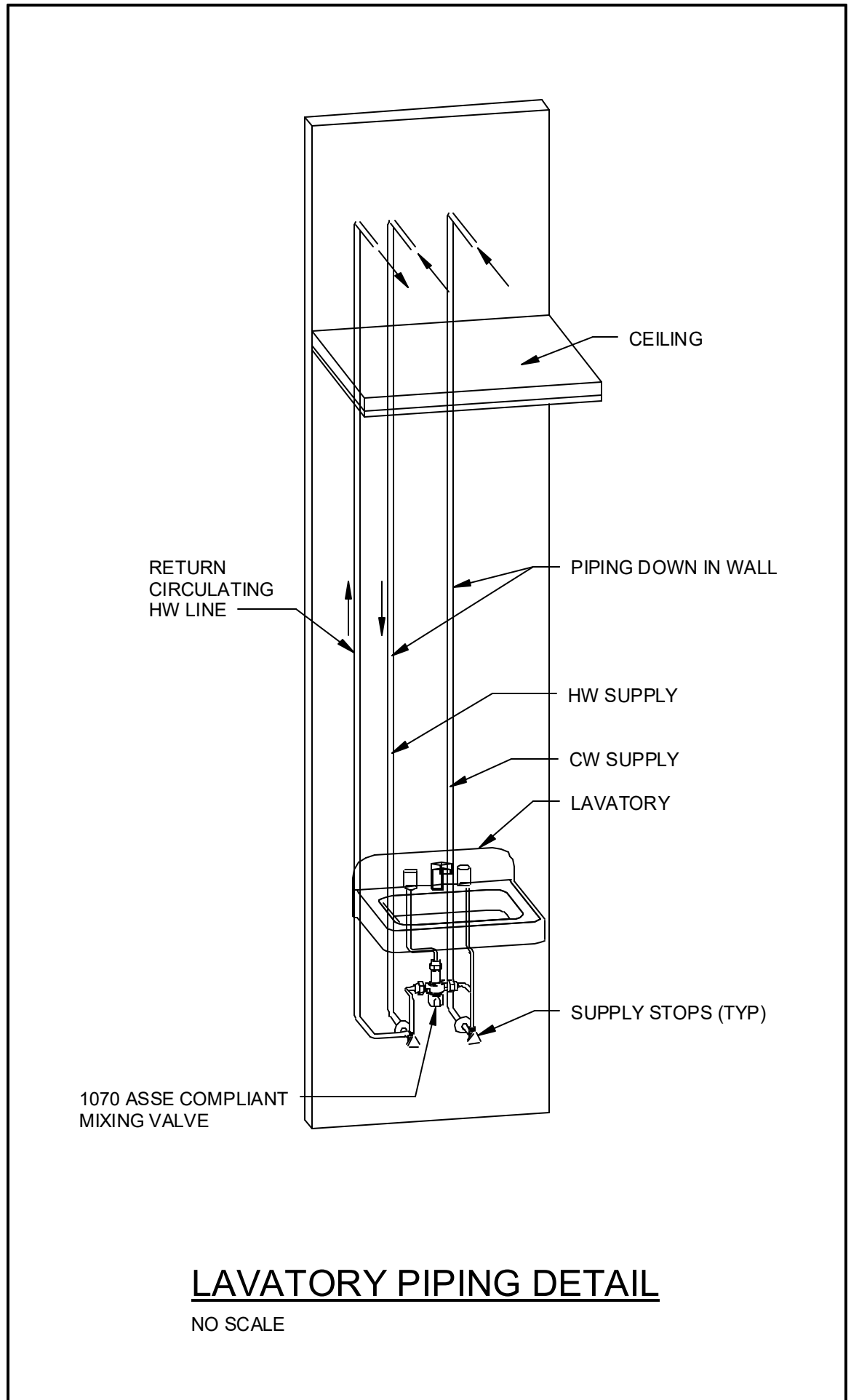
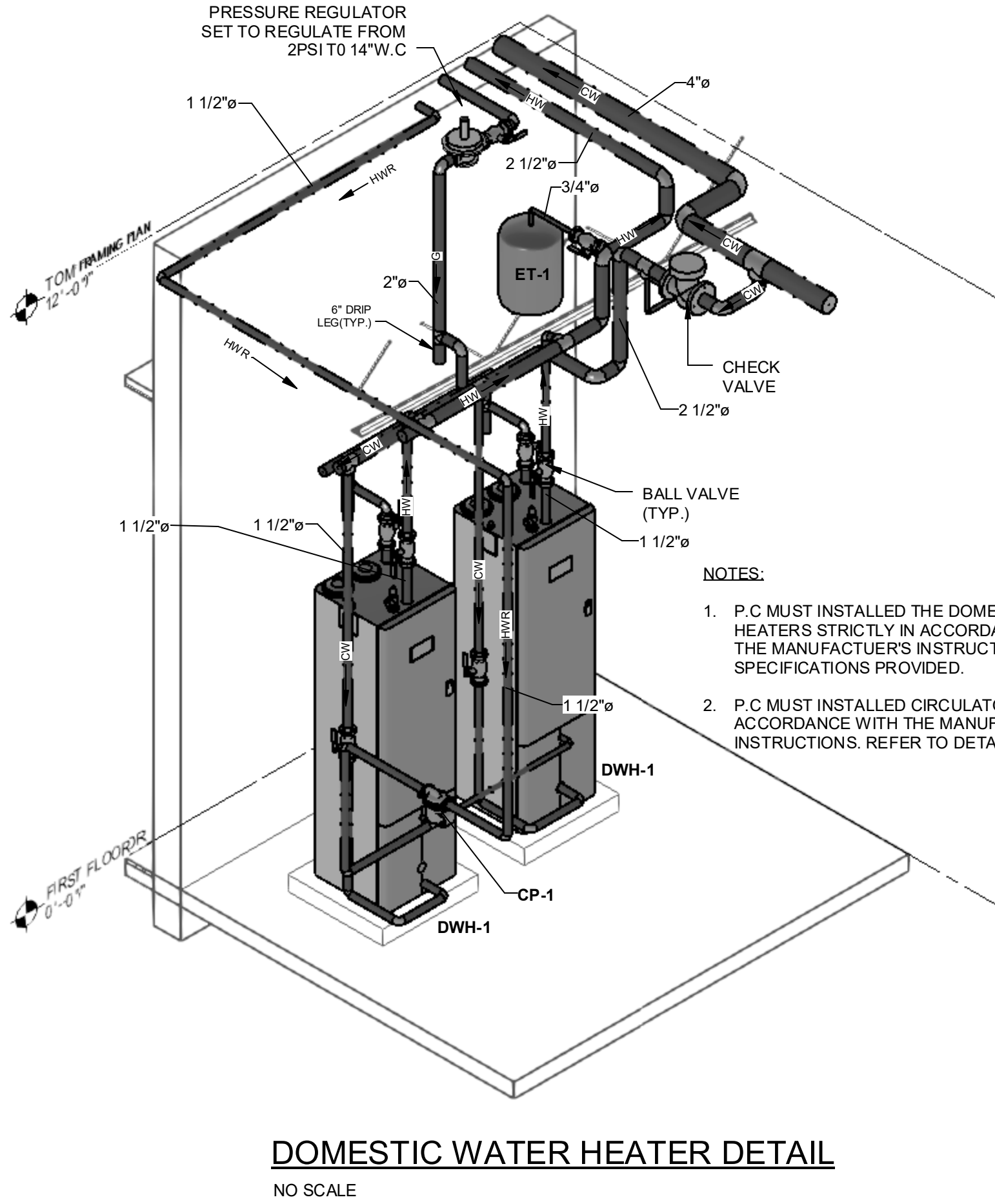
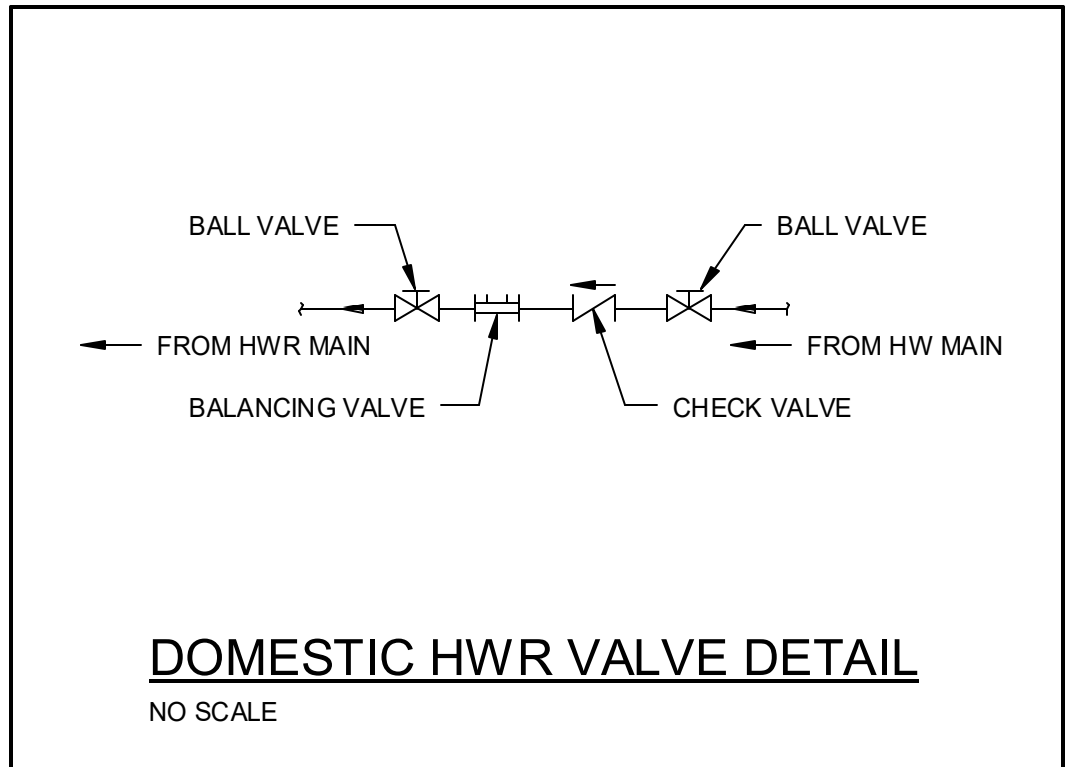
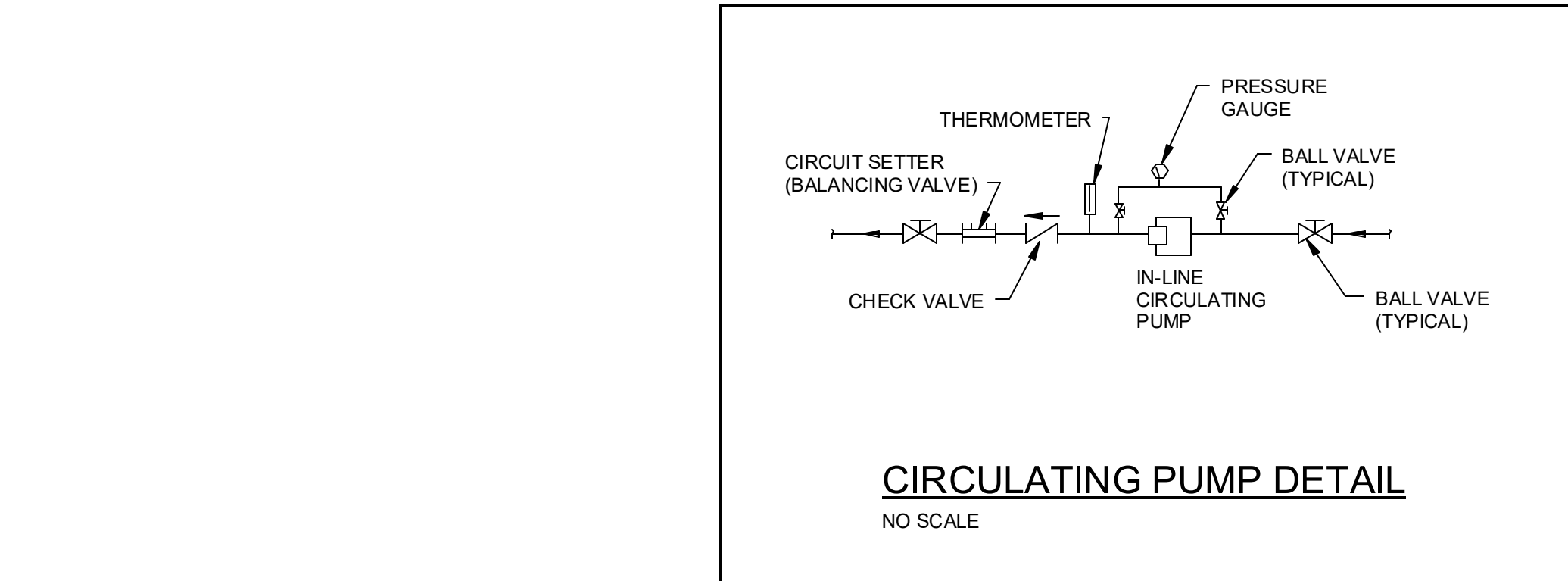
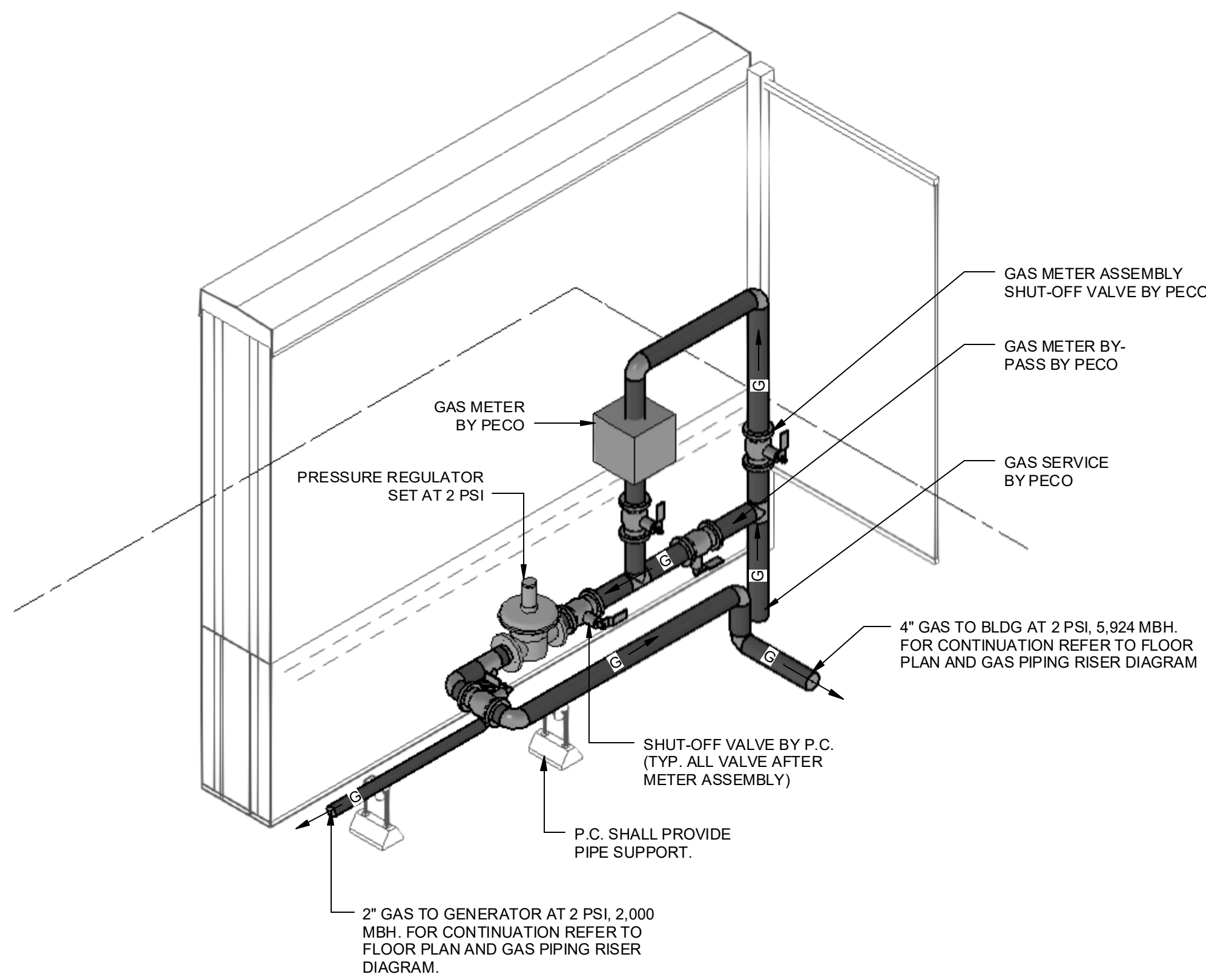
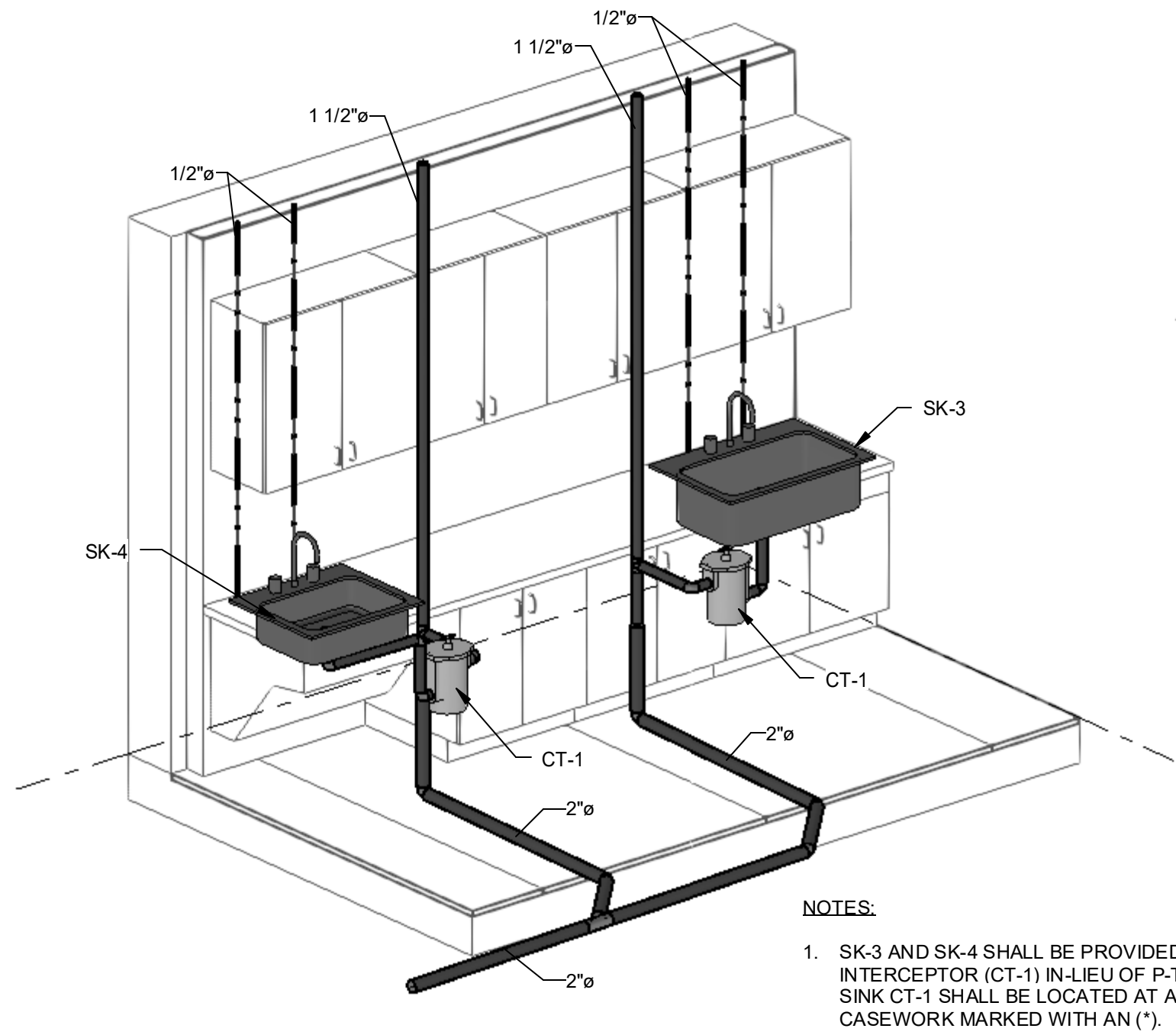
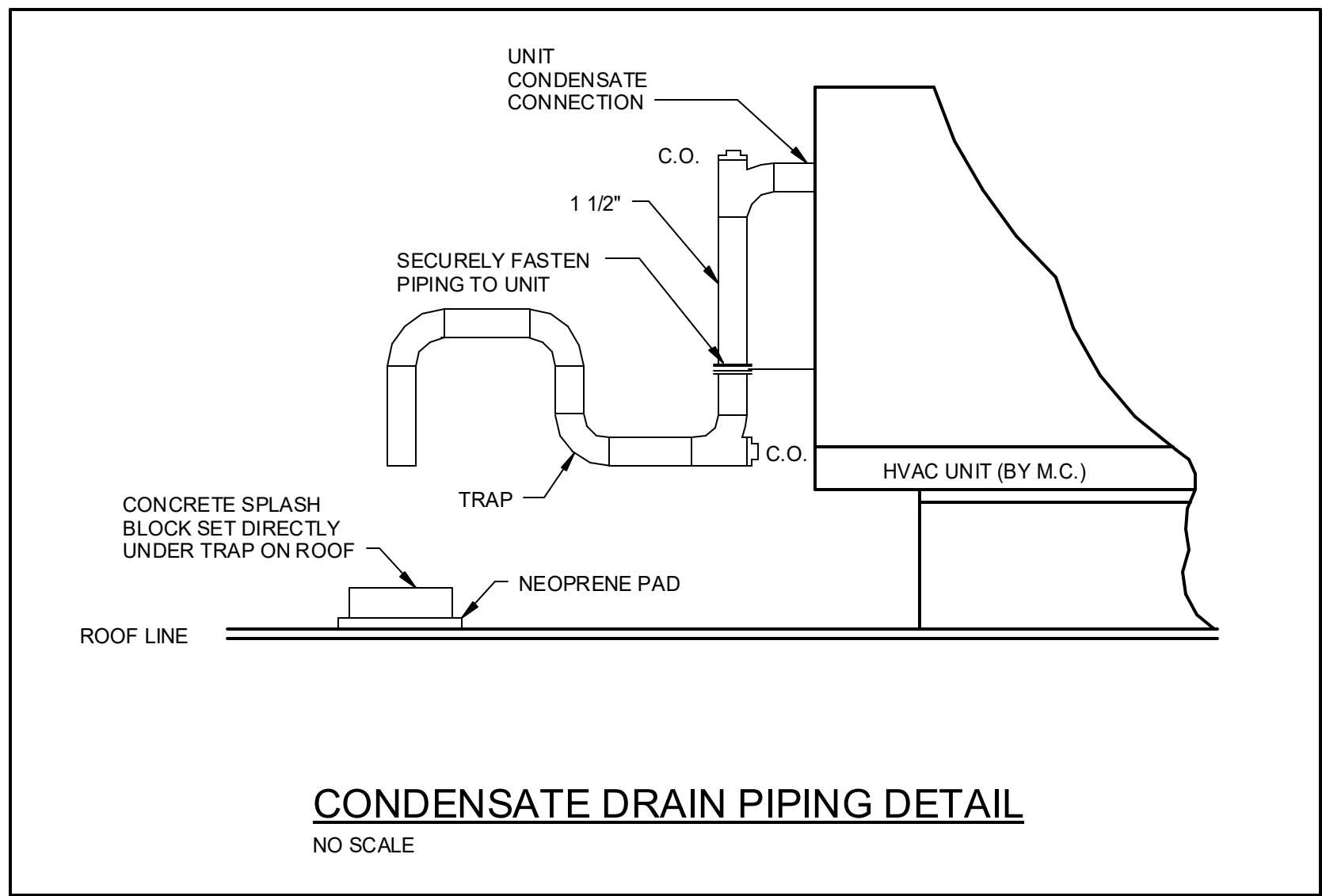
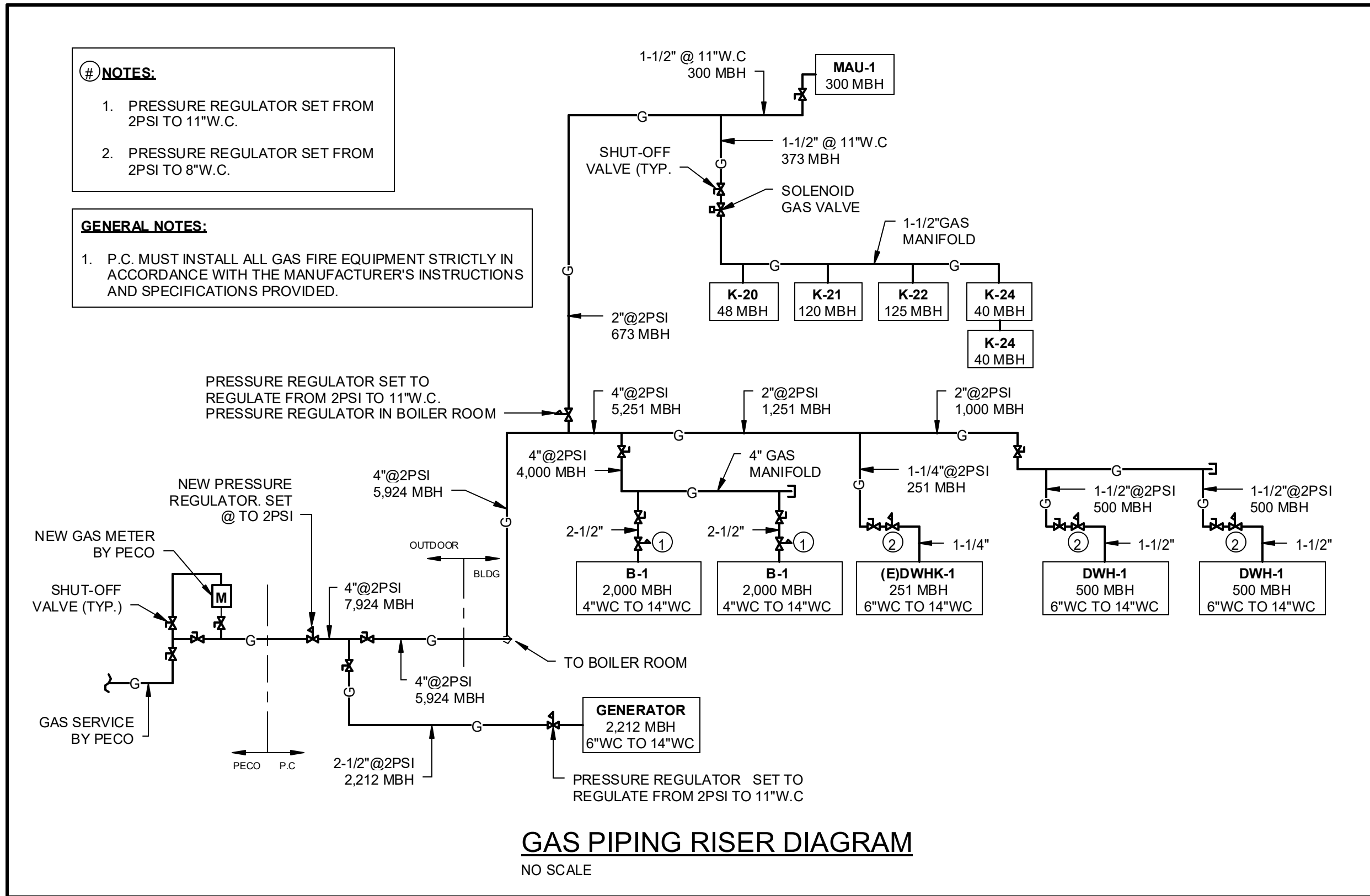
DATE
MARCH 30, 2025



PROJECT

3758

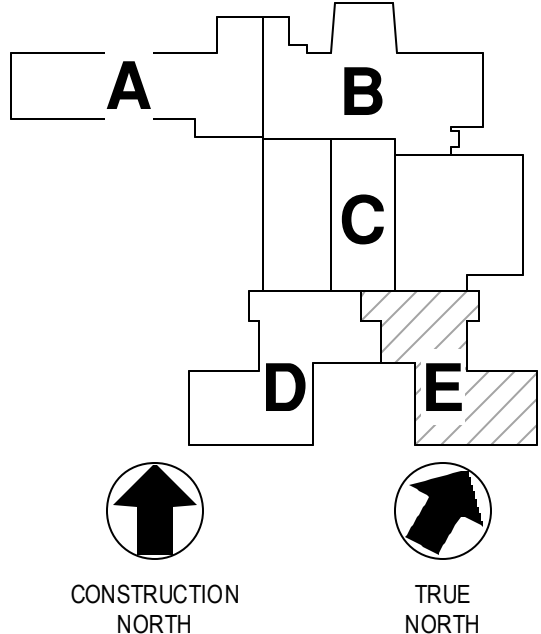
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KEY PLAN



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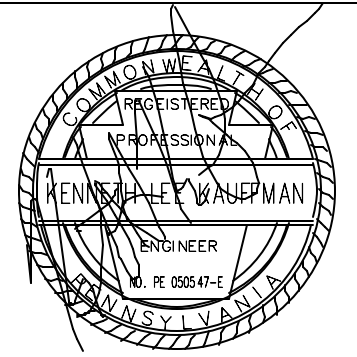
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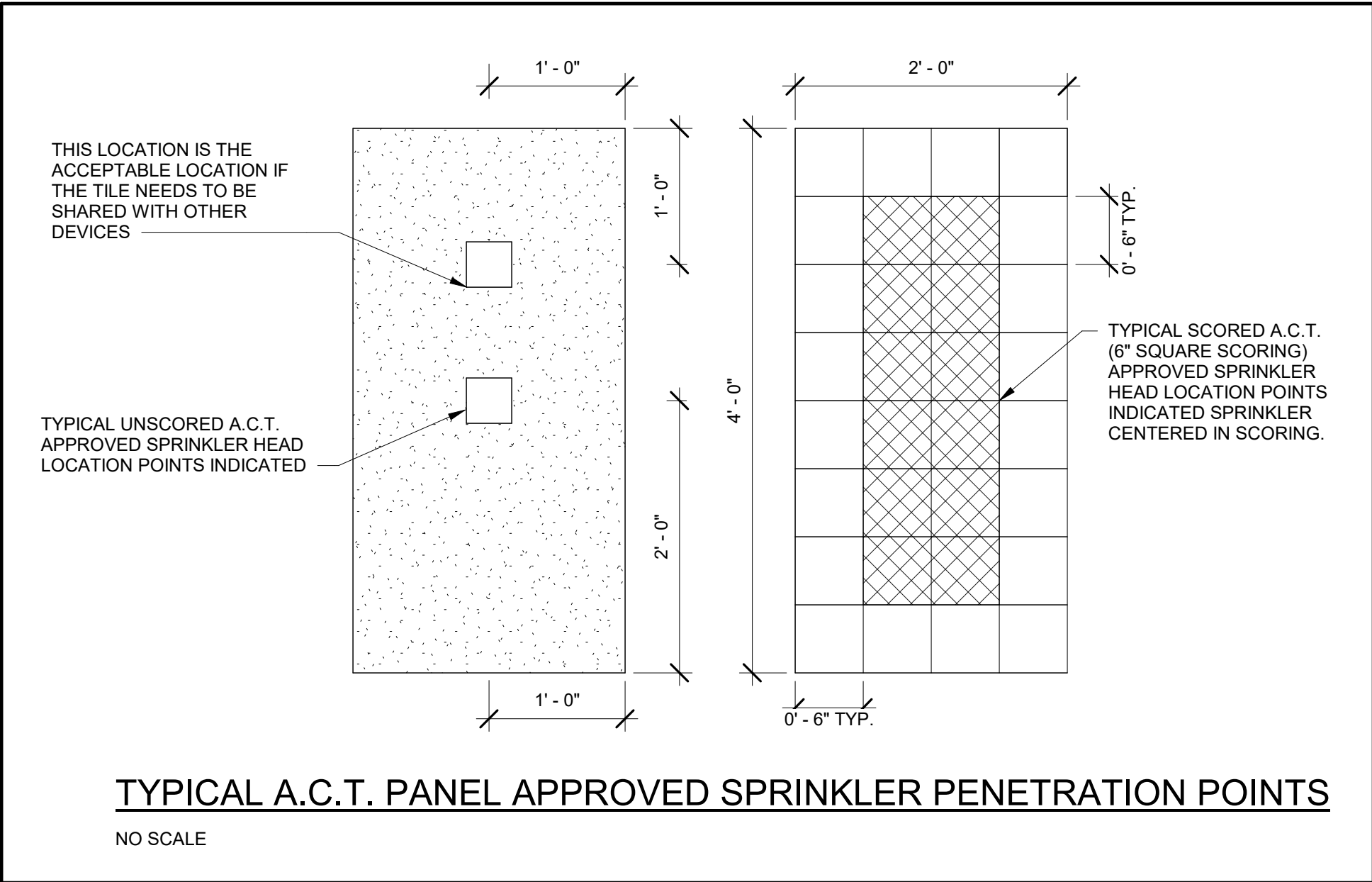
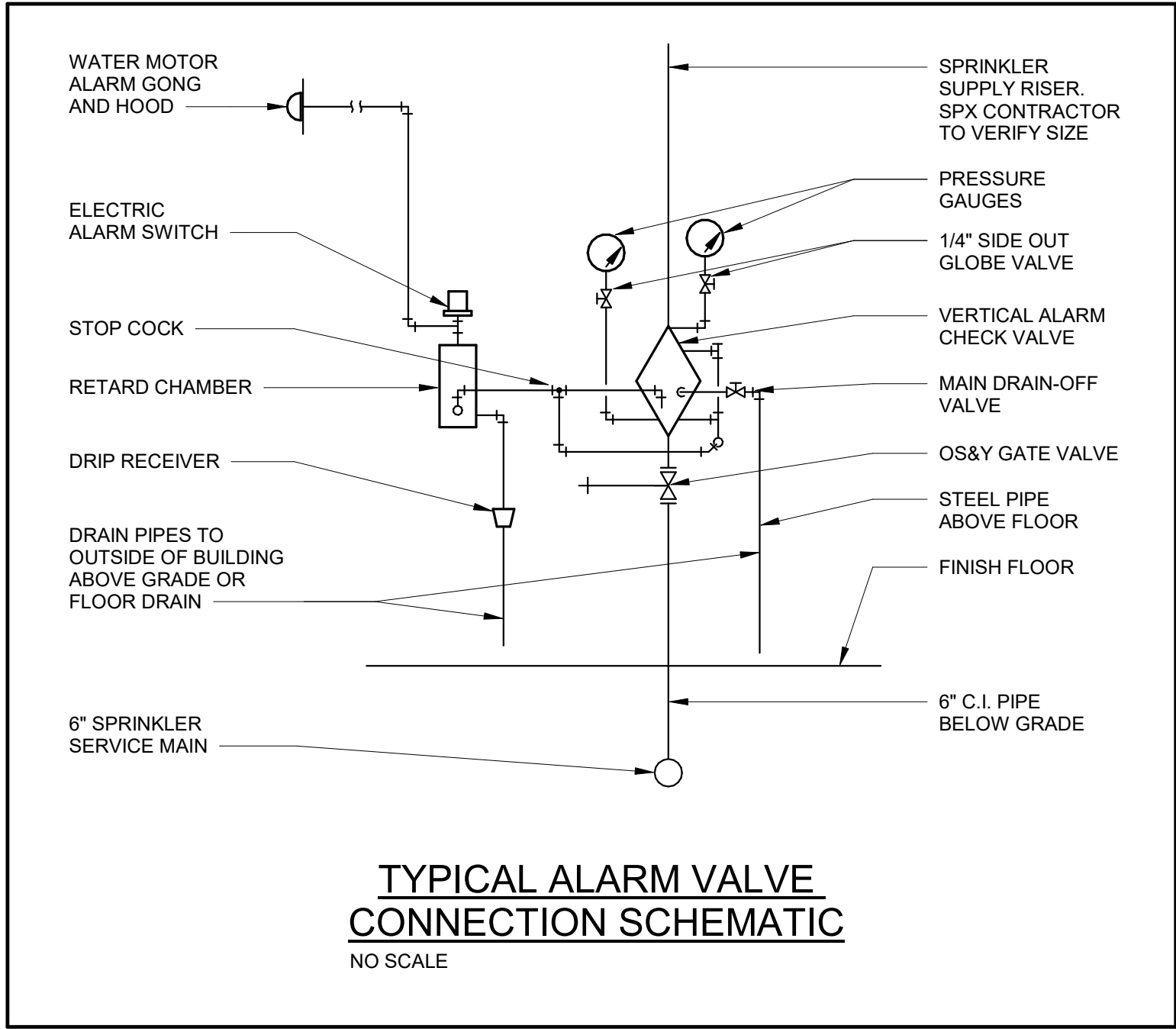


DETAILS

PLOTS/SCALE
As indicated
FILENAME
24066
DATE
MARCH 10, 2025

PROJECT
3758

P5.1

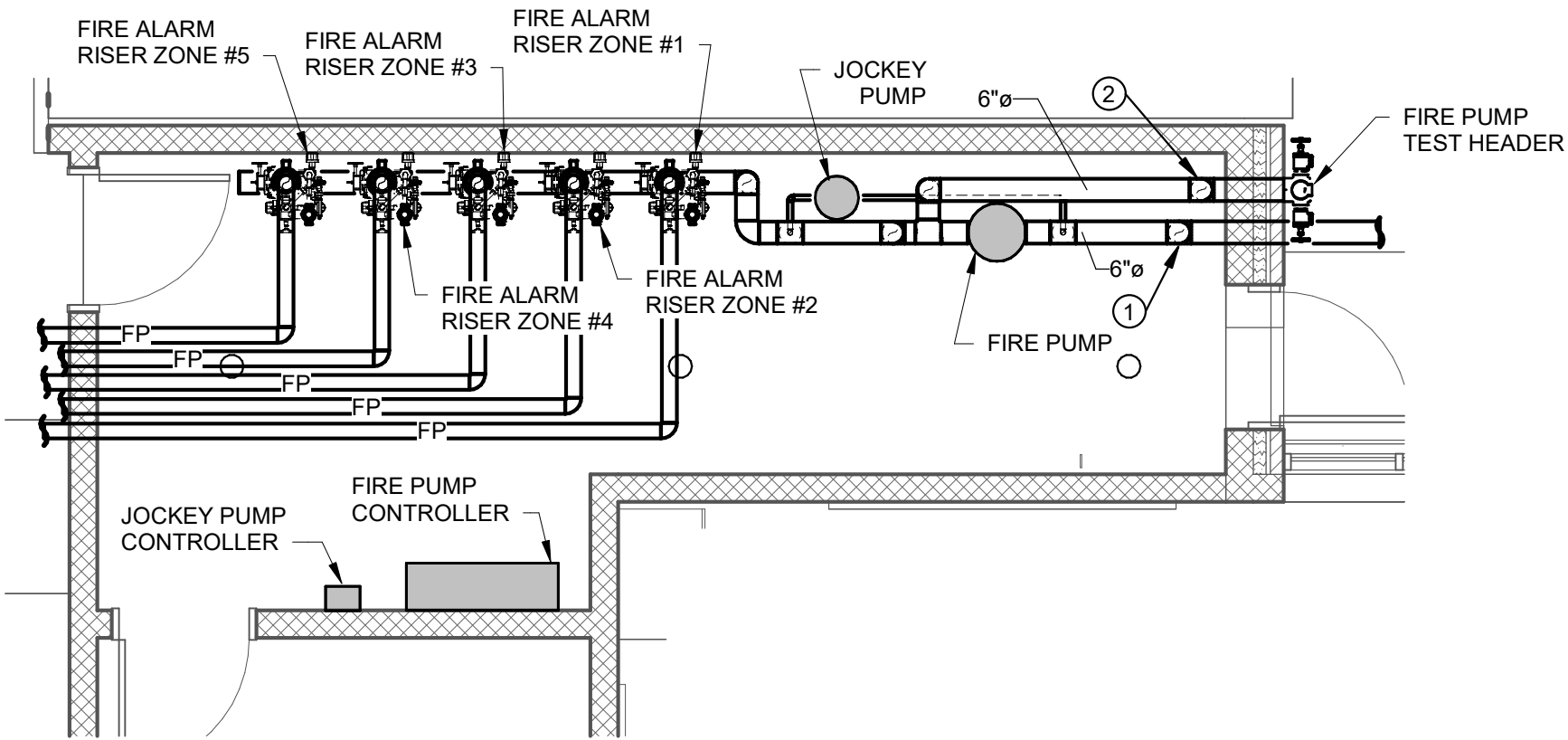


SPRINKLER SYMBOL SCHEDULE
(APPLIES TO ALL DRAWINGS)

⊗	NEW CONCEALED WET PENDENT HEAD
⊙	NEW WET PENDENT HEAD
○	NEW WET UPRIGHT HEAD
⊗	NEW CONCEALED DRY PENDENT HEAD
⊙	NEW DRY PENDENT HEAD
○	NEW DRY UPRIGHT HEAD
▲	NEW WET SIDEWALL HEAD
△	NEW DRY SIDEWALL HEAD
—FP—	NEW WET SPRINKLER PIPING
—DFP—	NEW DRY SPRINKLER PIPING
—FS—	FLOW SWITCH
—TS—	TAMPER SWITCH

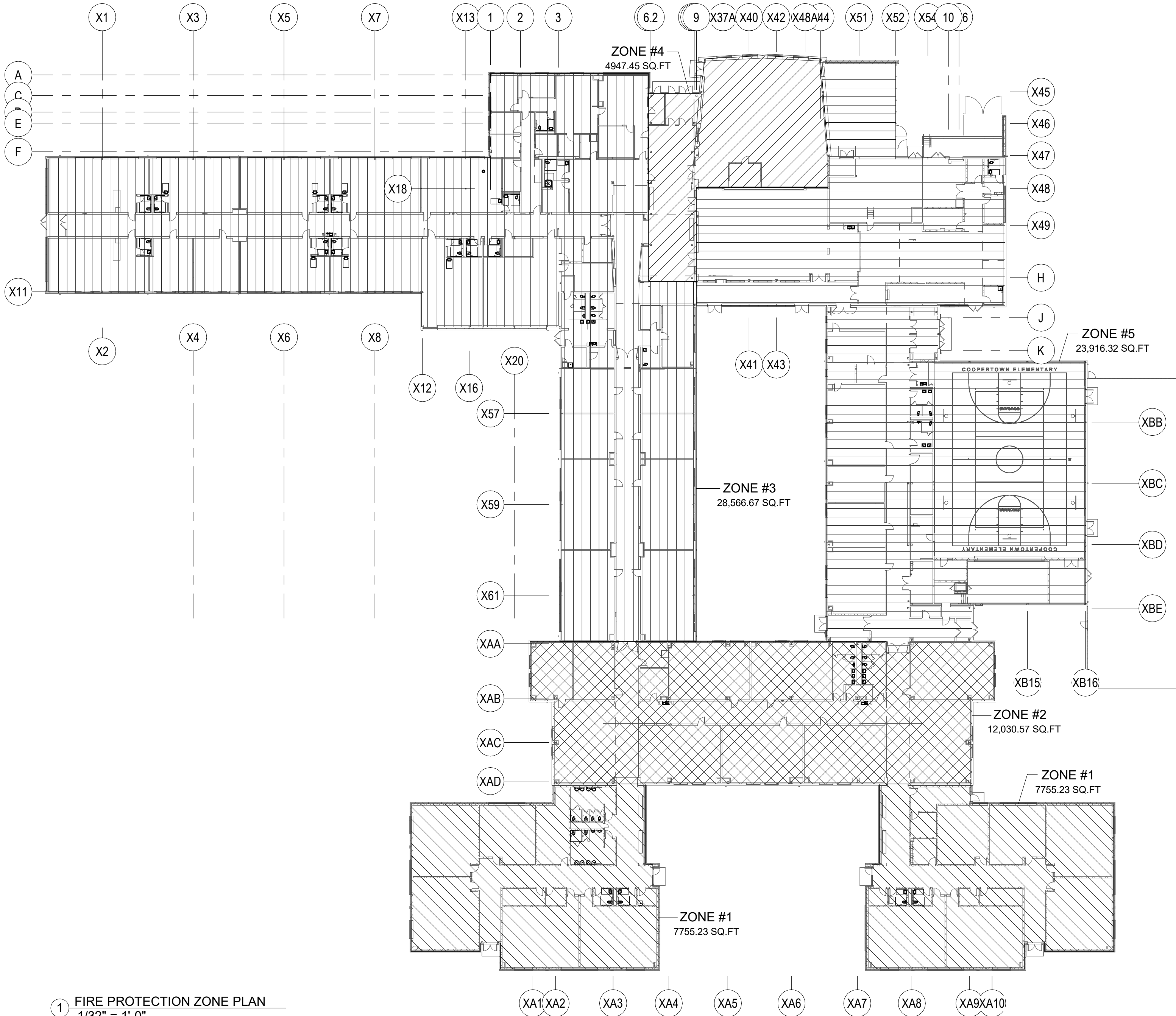
- SPRINKLER SYSTEM GENERAL NOTES:**
(TYP. ALL DWG)
- SIZES OF PIPING TO BE DETERMINED BY HYDRAULIC CALCULATION METHODS IN ACCORDANCE WITH THE SPECIFICATIONS AND NFPA #13, 14, 20.
 - ENTIRE BUILDING TO BE CONSIDERED AS LIGHT HAZARD WITH A SPACING OF 225 FT. /HEAD. EXCEPT FOR ATTIC AND STORAGE ROOM WHICH SHALL BE CONSIDERED ORDINARY HAZARD WITH A SPACING OF 130 FT. /HEAD.
 - ALL SPRINKLER HEADS SHALL HAVE A TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.
 - SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TOTAL NUMBER OF HEADS, DENSITY, AND SPACING REQUIRED TO MEET REQUIREMENTS OF INSURANCE UNDERWRITER.
 - THESE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE LOCATION OF SPRINKLER MAINS. LOCATION OF DUCTWORK, FAN COILS, LIGHTS, HOT WATER AND CHILLED WATER PIPING AND SANITARY DRAIN PIPING SHALL HAVE FIRST PRIORITY. BRANCH LINES SHALL BE INSTALLED TO AVOID CONFLICT WITH THESE ITEMS.
 - SPRINKLER CONTRACTOR SHALL COORDINATE LOCATION OF SPRINKLER HEADS WITH ARCHITECT.
 - CONTRACTOR SHALL VERIFY THAT ALL HOSE THREAD CONNECTIONS MEET THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.

- DRAWING NOTES:**
- SPRINKLER PIPING UP FROM BELOW FLOOR.
 - SPRINKLER PIPING DOWN FROM STEEL ABOVE TO SERVE FIRE PUMP TEST HEADER.



ENLARGED FIRE PROTECTION ROOM
1/4" = 1'-0"

FIRE PROTECTION ZONE PLAN
1/32" = 1'-0"



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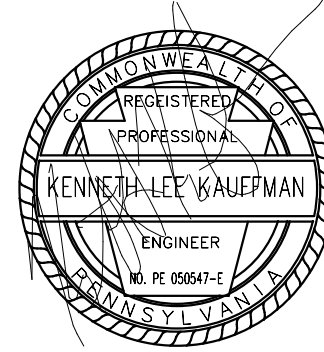
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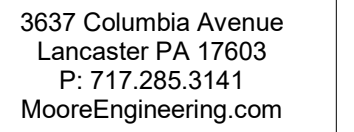


NOTES, SCHEDULES, DETAILS,
AND ZONE PLAN

PLOT SCALE:
As indicated
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758

FP0.1



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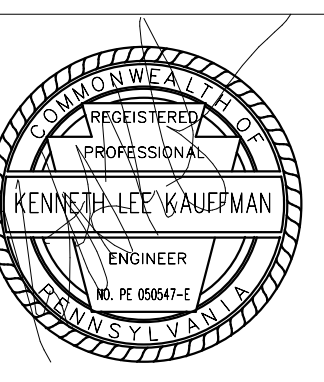
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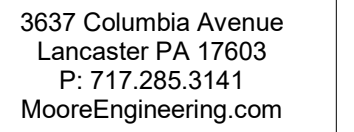
FIRST FLOOR UNIT A FIRE PROTECTION

LOT SCALE:
1/8" = 1'-0"
LENAME:
4066
DATE:
MARCH 1

PROJECT
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FP2.1

1. PROVIDE SPRINKLER HEADS IN CLOUD CEILINGS AND UPRIGHT SPRINKLER HEADS ABOVE IN THIS AREA.



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A 3D object is shown with five faces labeled A, B, C, D, and E. Face B is shaded with diagonal lines. The object is composed of several rectangular blocks. Face A is the leftmost vertical face. Face B is the top-right vertical face. Face C is the front vertical face. Face D is the bottom-left vertical face. Face E is the bottom-right vertical face.



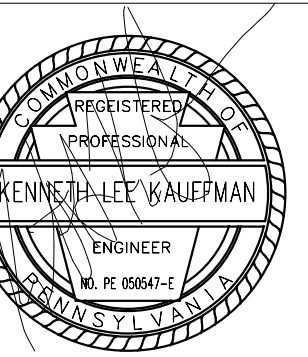
CONSTRUCTION
NORTH

[illegible]

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FIRST FLOOR UNIT B FIRE PROTECTION

LOT SCALE:
1/8" = 1'-0"
FILENAME:
4066
DATE:
MARCH 10,

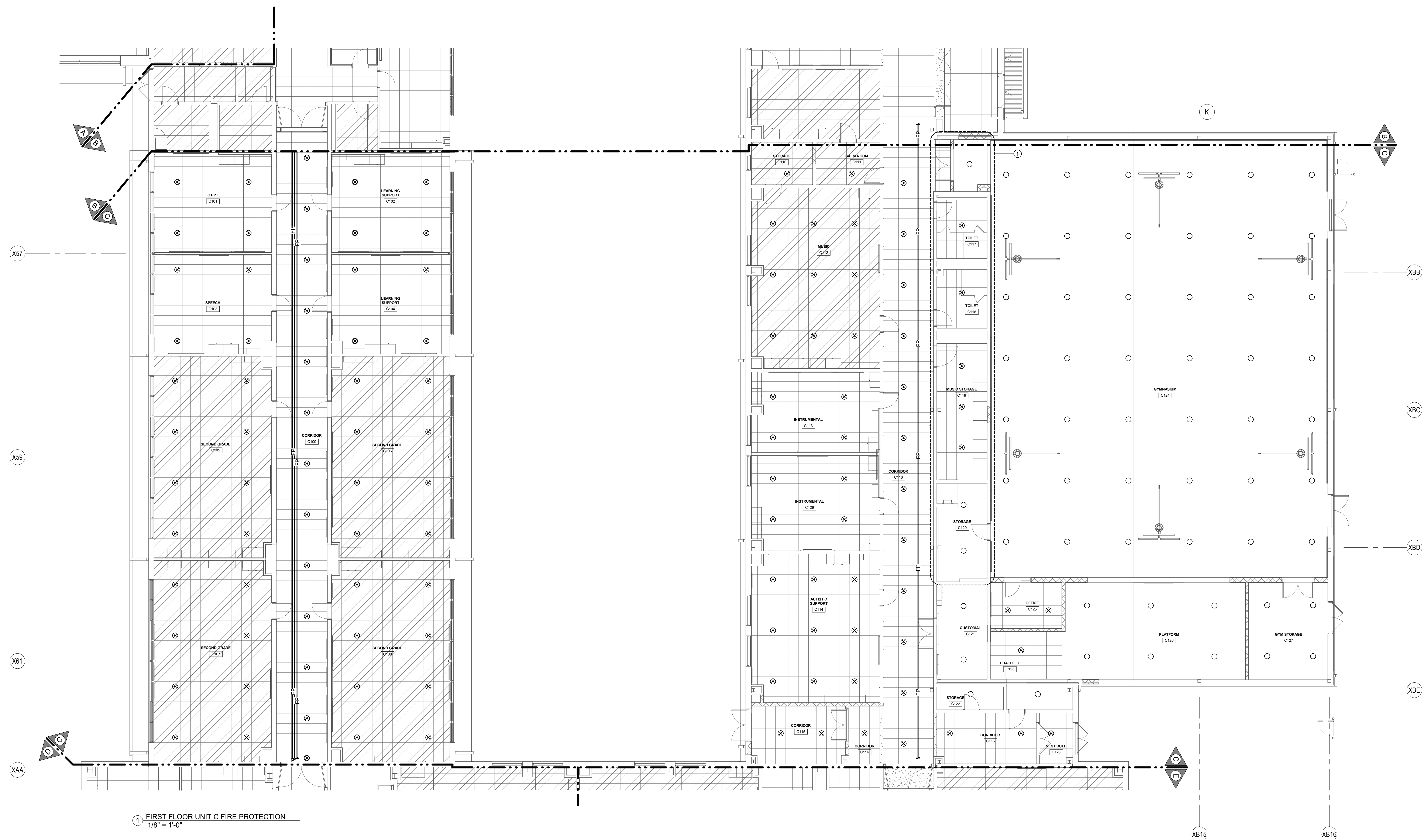
PROJECT
3758

FP2.2



⑧ DRAWING NOTES:

1. PROVIDE SPRINKLER HEADS IN CLOUD CEILINGS AND UPRIGHT SPRINKLER HEADS ABOVE IN THIS AREA.
2. PROVIDE WET PROTECTION ABOVE AND DRY PROTECTION IN FREEZER AND REFRIGERATOR.



⑧ DRAWING NOTES:



KEY PLAN

REVISIONS

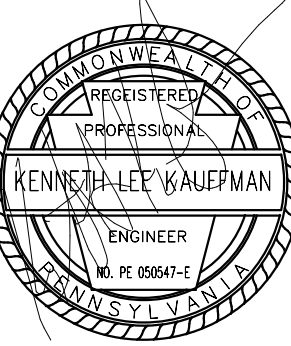
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FP2.3













CR

FIRST FLOOR UNIT C FIRE PROTECTION


















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









FILENAME

DATE: MARCH 10, 2025

WIRING	
SYMBOL	DESCRIPTION
	CONDUIT & WIRE
	CONDUIT & WIRE UNDERFLOOR OR UNDERGROUND
	HOME RUN WITH PANEL & CIRCUIT NUMBER NOTED
	MULTIPLE SWITCHED CIRCUITS FED FROM SAME HOME RUN
	UG — UNDERGROUND
	OH — OVERHEAD
	E — NORMAL/EMERGENCY CIRCUIT
	CONDUIT DOWN
	CONDUIT UP
	END OF CONDUIT

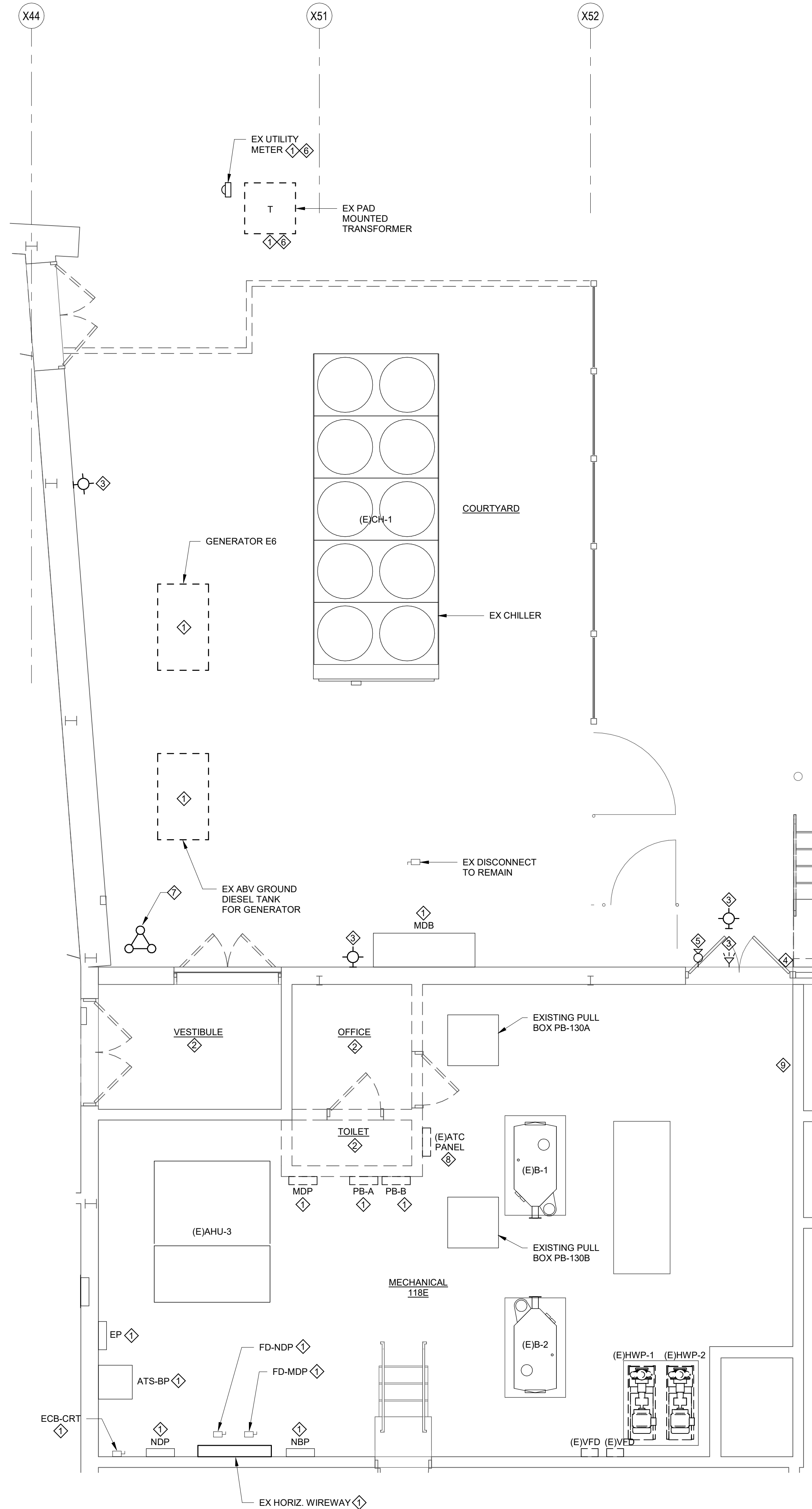
POWER DISTRIBUTION AND CONTROL	
SYMBOL	DESCRIPTION
	PUSH-BUTTON STATION
	EMERGENCY PUSHBUTTON
	EMERGENCY PUSHBUTTON WITH KEY RESET
	GAS VALVE SHUTOFF
	FUSED DISCONNECT SWITCH
	MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD DEVICE
	LOCAL DISCONNECT SWITCH- SINGLE OR 2 POLE AS REQUIRED
	CONTACTOR
	MOTOR STARTER (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED)
	COMBINATION STARTER & DISCONNECT SWITCH (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED)
	MOTOR
	MOTORIZED BLEACHER MOTOR BY GC, PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED COILING DOOR MOTOR BY GC, PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED DIVIDER CURTAIN BY GC, PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED FIRE PUMP BY FPC
	MOTORIZED BASKETBALL BACKSTOP HEIGHT ADJUSTER MOTOR BY GC, PROVIDE EXTRA HARD USAGE FLEXIBLE CORD, TWIST LOCK CORD CONNECTOR, MATCHING TWIST LOCK RECEPTACLE AND FINAL CONNECTIONS TO MOTOR
	MOTORIZED JOCKEY PUMP BY FPC
	MOTORIZED DOCK LEVELER BY GC, PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED MAT HOIST BY GC, PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED OVERHEAD DOOR BY GC, PROVIDE LOCAL DISCONNECT/RECEPTACLE AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED PROJECTION SCREEN BY GC, PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED BASKETBALL BACKSTOP RAISE/LOWER MOTOR BY GC, PROVIDE EXTRA HARD USAGE FLEXIBLE CORD, TWIST LOCK CORD CONNECTOR, MATCHING TWIST LOCK RECEPTACLE AND FINAL CONNECTIONS TO MOTOR
	MOTORIZED SHADE CONTROLLER BY GC, PROVIDE LOW/VLINE VOLTAGE BOXES/WIRING/CONDUIT AS REQUIRED, REFER TO DETAIL FOR ADDITIONAL INFORMATION.
	MOTORIZED WHEELCHAIR LIFT BY GC, PROVIDE FUSED DISCONNECT, CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT AND CATEGORY 6 CABLE TO BUILDING DEMARC IN 3/4" CONDUIT
	FOOD SERVICE EQUIPMENT TAG; # INDENTIFIES EQUIPMENT; REFER TO FOOD SERVICE DRAWINGS

LOW VOLTAGE LIGHTING CONTROLS	
SYMBOL	DESCRIPTION
	PUSH BUTTON WITH RAISE LOWER LOW VOLTAGE DIGITAL WALL SWITCH, # INDICATES QUANTITY OF BUTTONS
	PUSH BUTTON LOW VOLTAGE DIGITAL WALL SWITCH, # INDICATES QUANTITY OF BUTTONS
	LOW VOLTAGE CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR
	WIRELESS CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR
	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR
	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR
	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS
	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS
	LOW VOLTAGE CEILING MOUNTED DIGITAL DAYLIGHT SENSOR
	WIRELESS CEILING MOUNTED DIGITAL DAYLIGHT SENSOR
	DIGITAL LIGHTING CONTROL SYSTEM - RELAY ROOM CONTROLLER WITH 0-10V DIMMING; # INDICATES QUANTITY OF RELAYS
	DIGITAL LIGHTING CONTROL SYSTEM - PLUG LOAD ROOM CONTROLLERS
	DIGITAL LIGHTING CONTROL SYSTEM - ROOM CONTROLLER WITH PHASE OUT/REVERSE PHASE DIMMING; ONE ZONE
	DIGITAL LIGHTING CONTROL SYSTEM - PARTITION SENSOR
	1 RELAY ROOM CONTROLLER WITH EMERGENCY LIGHTING CONTROL DEVICE
	DIGITAL LIGHTING CONTROL SYSTEM - INPUT/OUTPUT INTERFACE
	EXTERIOR DAYLIGHT SENSORS WITH INPUT MODULE

POWER DISTRIBUTION AND CONTROL (CONTINUED)	
<u>SYMBOL</u>	<u>DESCRIPTION</u>
	HORIZONTAL SURFACE RACEWAY WITH MATCHING VERTICAL RACEWAY TO ABOVE CEILING FOR DEVICES SHOWN OR INDICATED
	RECESSED PANELBOARD
	SURFACE PANELBOARD
	JUNCTION BOX
	CONDUCTOR
	TRANSFORMER AS SCHEDULED
	METER
	MOTORIZED WINDOW SHADE CONTROLLER

	GENERAL ELECTRICAL NOTES:
ATION	1. THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE NEC AND ALL
ER'S PANEL	LOCAL, STATE AND NATIONAL CODES.
POCKET	2. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.
	3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
ATED TERMINAL BOX	4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ARCHITECTURAL PHASING PLANS INCLUDING ASBESTOS ABATEMENT PLANS.
SOLE JACK	5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO: ALL TEMPORARY AND PERMANENT CROSSLINK CONNECTIONS, RELOCATION OF SYSTEM EQUIPMENT AND REPROGRAMMING OF THE SYSTEM EQUIPMENT TO THE NEW AND EXISTING SYSTEMS THAT THE ELECTRICAL CONTRACTOR WILL NEED TO PROVIDE DURING THE RENOVATION/CONSTRUCTION PROJECT. THESE SYSTEMS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
INTERCOM JACK	A. NORMAL POWERLIGHTING CIRCUITS.
	B. EMERGENCY POWERLIGHTING CIRCUITS.
	C. FIRE ALARM SYSTEMS
	D. SECURITY SYSTEMS
	E. CAMERA SYSTEMS
	F. INTERCOM SYSTEMS
	G. MASTER CLOCK SYSTEMS
	H. SOUND SYSTEMS
	I. TELEPHONE SYSTEMS
	J. DATA SYSTEMS
	6. SHUTDOWNS OF ANY OF THE SYSTEMS LISTED ABOVE MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, OWNER AND CONSTRUCTION MANAGER.
	7. THERE WILL BE MULTIPLE LABOR AND INDUSTRY, TOWNSHIP, OWNER, ARCHITECT AND ENGINEER INSPECTIONS THAT WILL NEED TO BE SATISFIED BY THE ELECTRICAL CONTRACTOR.
	8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, WHETHER SPECIFIED OR NOT, TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
	9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND CABLE TRAY PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED. THE ELECTRICAL CONTRACTOR SHALL UNDER THE DIRECTION OF THE ARCHITECT, PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE PROTECTION RATINGS, REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS.
	10. NOT ALL SYMBOLS SHOWN ON THIS DRAWING ARE USED ON THIS PROJECT.
	11. ONE OR MORE ATTRIBUTES MAY BE ADDED TO A BASIC SYMBOL, TO SPECIFY ADDITIONAL REQUIREMENTS FOR THE DEVICE DESCRIBED BY THE BASIC SYMBOL.
	12. REFER TO SPECIFICATIONS FOR PANELBOARD AND LUMINAIRE SCHEDULES.

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- DRAWING NOTES:**
- REFER TO EXISTING POWER RISER ON DRAWING E9.1 FOR WORK.
 - DISCONNECT AND REMOVE ALL LUMINAIRES AND ASSOCIATED CONTROLS, AND ALL ELECTRICAL EQUIPMENT AND DEVICES IN THIS SPACE/AREA, INCLUDING ALL WIRING/CONDUIT BACK TO SOURCE. THOROUGHLY CLEAN AND STORE LUMINAIRES TO REUSE AS SHOWN ON THE NEW WORK PLANS.
 - DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED WIRING.
 - THREE EXISTING PHOTOCELLS AND EXISTING WIRING TO BE REMOVED.
 - EXISTING EXTERIOR CCTV CAMERA TO REMAIN. DISCONNECT AND REFEED AS NOTED ON DWGS.
 - REMOVE PAD MOUNTED TRANSFORMER PAD AND UTILITY METER IN THEIR ENTIRETY. ROUGH-IN GRADE TO MATCH ADJACENT AREA AND PREPARE SURFACE FOR FINAL FINISHES.
 - REMOVE EXISTING ANTENNA TOWER, ANTENNAS AND CABLEING.
 - COORDINATE RELOCATION OF EXISTING ATC PANEL. TEMPORARILY EXTEND EXISTING BRANCH CIRCUIT TO RELOCATED PANEL UNTIL NEW SERVICE AND DISTRIBUTION IS AVAILABLE.
 - REPLACE EXISTING TELEPHONE BUILDING ENTRANCE TERMINAL AND COAX DISTRIBUTION SPLITTERS/TAPS.



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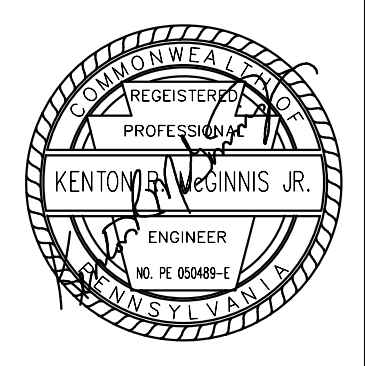
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ENLARGED DEMO PLAN
PLOT SCALE:
1/4" = 1'-0"
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758
E1.2



① SITE PLAN - LIGHTING
1" = 40'-0"

GENERAL NOTES:

1. PATCH AND RESTORE SITE TO MATCH EXISTING CONDITIONS WHERE EXCAVATION DISTURBS EXISTING TO REMAIN SURFACES.
2. COORDINATE HANDHOLES AS REQUIRED WITH ARCHITECT/OWNER, NEW WORK PLANS AND EXISTING CONDITIONS.
3. ANY FEEDER CONDUITS RUN OUTSIDE THE BUILDING MUST BE CONCRETE ENCASED.
4. LIGHTING FIXTURES MUST BE COMPATIBLE WITH CONTROLS. PROVIDE ADDITIONAL CONTROLLERS, WIRING/CONDUIT AND DEVICES AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEM.

DRAWING NOTES:

1. PROVIDE ROOM CONTROLLERS TIMECLOCK ABOVE PANEL EL1A FOR SITE LIGHTING CONTROL.
2. PROVIDE ROOM CONTROLLERS TIMECLOCK ABOVE PANEL ELD1 FOR SITE LIGHTING CONTROL.
3. PROVIDE ROOM CONTROLLER/TIMECLOCK ABOVE PANEL ELD1 FOR SITE LIGHTING CONTROL.
4. CONTROL VIA AREA D EXTERIOR LIGHTING ROOM CONTROLLERS SHOWN ON SHEET E2.4.



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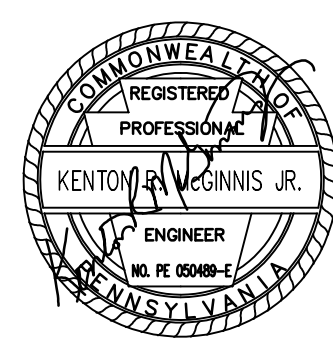
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SITE PLAN - LIGHTING

PLOT SCALE:
AS INDICATED
FILENAME:
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DATE:
MARCH 10, 2025

PROJECT
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E2.0

EXTERIOR LUMINAIRE SCHEDULE											
Mark	Manufacturer	Catalog Number	Description	Volts	Lamps			Driver		Mtg. Height	Notes
					No.	Watts	Type/Lumens	No.	Type		
OP1/2	Lithonia	DSX1 LED-P1-40K-80CRI-T4M-MVOLT-SPANLTAIR2 PIRHN-XXX	Two head, 180-degree apart, 18-foot square pole, Type II Medium distribution, full cutoff	UNV	2	51	LED 7507	2	DLD	PM	Pole Base 1,2,4
OP2	Lithonia	RADPT LED-P1-40K-PATH-MVOLT-PT4NLTAIR2-HS-XXXXX with RSS-10-4B-PT-XXXXX	120 pole mounted circular post top pathway luminaire; Pathway Type 3 optics; house-side shield; full cutoff	UNV	1	214	LED 2739	1	DLD	PM	Pole Base 1,2,4
OP3	Lithonia	DSX1 LED-P1-40K-80CRI-TFTM-MVOLT-SPANLTAIR2 PIRHN-XXX	Single head, 18-foot square pole, Forward Throw Medium distribution, full cutoff	UNV	1	51	LED 7507	2	DLD	PM	Pole Base 1,2,4
OP3/HS	Lithonia	DSX1 LED-P1-40K-80CRI-TFTM-MVOLT-SPANLTAIR2 PIRHN-XXX-HS	Single head, 18-foot square pole, Forward Throw Medium distribution; house-side shield; full cutoff	UNV	1	51	LED 7507	2	DLD	PM	Pole Base 1,2,4
OW1	Lithonia	WPX2 LED-40K-MVOLT-PE-XX	DLC wall pack with full cutoff	UNV	1	24	LED 2500	1	DLD	SW	144" U.O.N. 2,3
OW2	Luminaire LED LSI	BLD-24"-MIN10-10W-40K-MVOLT-DP-XXX-PIR LinArc LAV2 Series	LED 24" wall-mounted luminaire, with motion/photocell; full cutoff	UNV	1	10	LED 1024	1	DLD	SW	6" above door or mullion mid if applicable 2,3
OW2B	Luminaire LED LSI	BLD-36"-MIN10-15W-40K-MVOLT-DP-XXX-PIR LinArc LAV2 Series	LED 36" wall-mounted luminaire, with motion/photocell; full cutoff	UNV	1	15	LED 1537	1	DLD	SW	6" above door or mullion mid if applicable 2,3

General Notes	
G1	Check descriptions against catalog numbers. Report any discrepancies prior to submitting a proposal for this work.
G2	Where the listed manufacturer of acceptable substitutes makes more than one grade of the fixture, provide the grade of fixture with equal or better construction, materials and performance as determined by the manufacturer.
G3	Engineer must approve all substitutes prior to bid.
G5	All drivers/ballasts shall be Universal 120-277 voltage. If universal driver is unavailable, furnish 120 volt type.
G6	Refer to Specifications Sections 265100 and 265600 for additional requirements.
G7	All approved equal pendant manufacturers will be required to submit footcandle layouts to verify they meet the basis of design.

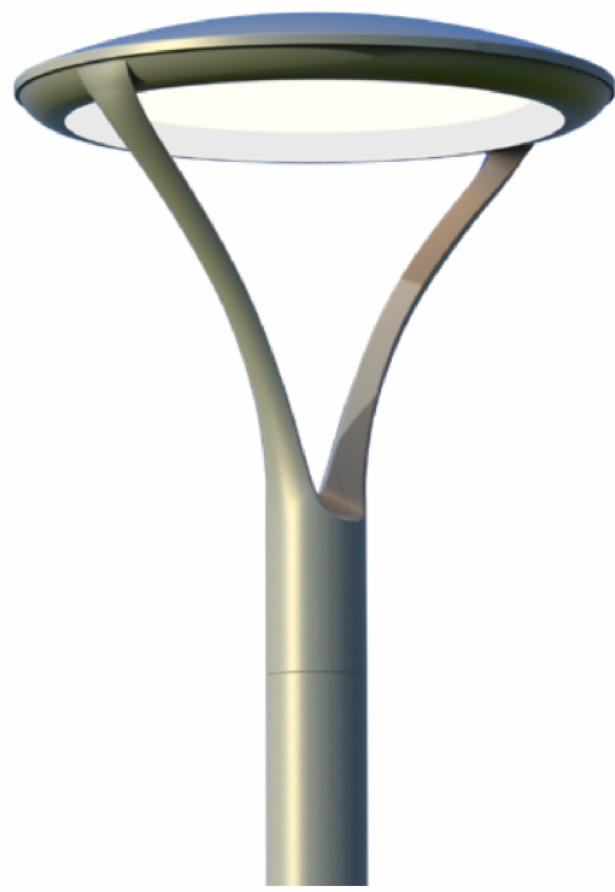
Luminaire Notes	
1	Provide all additional mounting accessories, including chain hung where applicable, for each application.
2	Architect to select finish of luminaire. All standard (non-custom chip matching) color options should be included in Base Bid. Provide color samples with submittals to Architect for review and selection.
3	Locations/heights shown on Electrical Drawings are approximate. Coordinate exact mounting height and location with Architectural Elevations. Review with Architect before rough-in.
4	Provide a base per for mounting luminaire.

Driver & Ballast Legend	
Symbol	Description
DLD	Dimming LED Driver, 0-10 volts.
LD	LED driver.
SD	Step Dimming

Mounting Legend			
Symbol	Description	Symbol	Description
RC	Recessed Ceiling	S	Suspended
RW	Recessed Wall	UC	Under Cabinet
SC	Surface Ceiling	PD	Per Detail on Drawings
SW	Surface Wall	PM	Pole Mounted
CH	Chain Hung	IG	Recessed In Ground
AH	Aircraft Cable Hung	PT	Pole Top Mounted
P	Pendant	G	Ground Mounted
WB	Wall Bracket	B	Bollard



TYPICAL TYPE OP1/2, OP3 AND OP3/HS LIGHT IMAGE
NO SCALE



TYPICAL TYPE OP2 POLE LIGHT IMAGE
NO SCALE



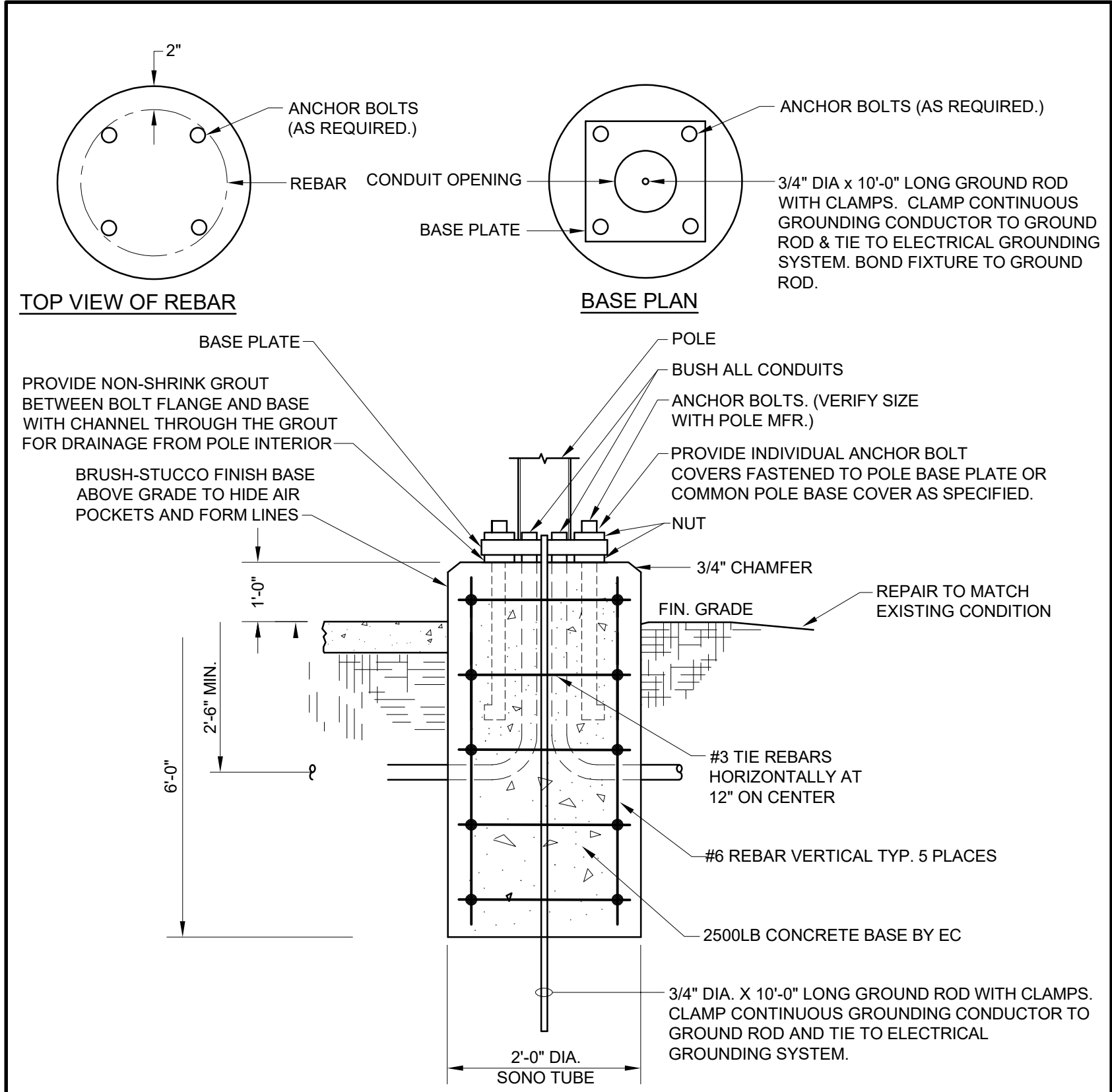
TYPICAL TYPE OW1 WALL LIGHT IMAGE
NO SCALE



TYPICAL TYPE OW2 AND OW2B MULLION MOUNTED LIGHT IMAGE
NO SCALE



1 SITE PLAN - LIGHTING - PHOTOMETRICS
1" = 40'-0"



2 TYPICAL POLE BASE MOUNTING DETAIL
NO SCALE



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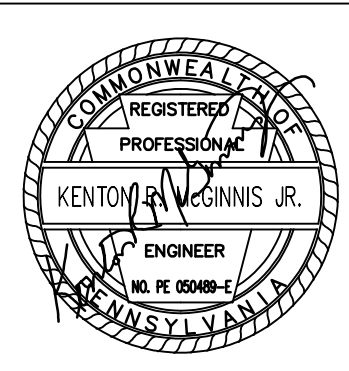
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SITE PLAN - LIGHTING

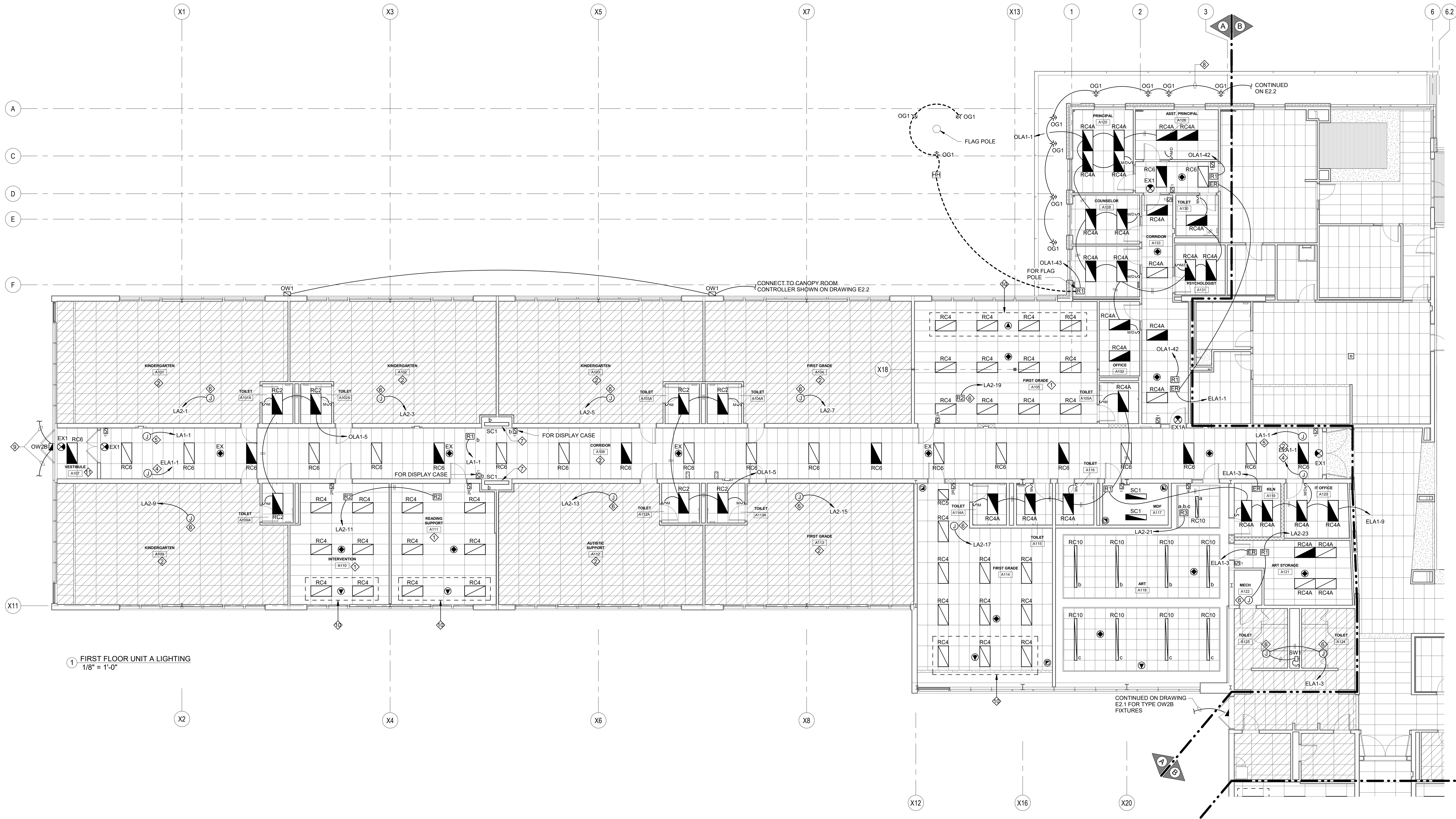
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PROJECT
3758

E2.0A



1 FIRST FLOOR UNIT A LIGHTING
1/8" = 1'-0"

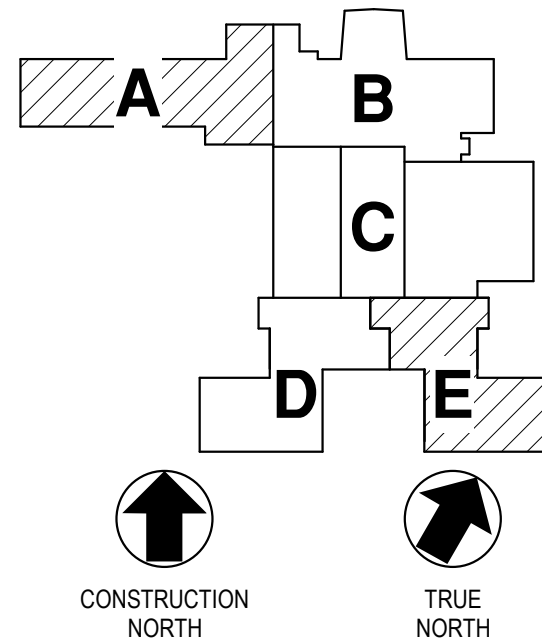
GENERAL NOTES:

- ALL EX1 EXIT SIGNS ARE EXISTING AND TO BE REMOVED/REINSTALLED AS REQUIRED FOR CONSTRUCTION. EX1A EXIT SIGNS ARE NEW. PROVIDE A NEW EXIT SIGN CIRCUIT AND CONNECT ALL EXIT SIGNS (EX1/EX1A) TO CIRCUIT ELA1-19.
- LIGHTING ROOM CONTROLLER LOCATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. MOUNT LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS AT OR CLOSE TO ROOM/AREA ENTRANCES WHERE POSSIBLE.
- LIGHTING FIXTURES MUST BE COMPATIBLE WITH CONTROLS IN ALL SPACES. PROVIDE ADDITIONAL CONTROLLERS, WIRING/CONDUIT AND DEVICES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.

DRAWING NOTES:

- REINSTALL EXISTING LIGHTING AS SHOWN. REWORK EXISTING WIRING/CONDUIT AND PROVIDE NEW AS REQUIRED FOR THE NEW LAYOUT.
- LIGHTING AND CONTROLS IN THIS SPACE ARE EXISTING TO REMAIN. PROVIDE REWORK OF EXISTING WIRING/CONDUIT AS REQUIRED FOR CONSTRUCTION.
- CONNECT TO ALL LUMINAIRES IN THE ROOM. LUMINAIRES IN THIS ROOM HAVE INTEGRAL CONTROLS.
- CAPTURE THE EXISTING NORMAL EMERGENCY CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED TO PROVIDE EMERGENCY OVERRIDE RELAY AND LIFE SAFETY HOMERUN AS SHOWN.
- CAPTURE THE EXISTING NORMAL LIGHTING CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED AND PROVIDE HOMERUN AS INDICATED.
- EXISTING LIGHTING AND CONTROLS TO REMAIN. HOMERUN TO CIRCUIT INDICATED.
- EXISTING DISPLAY CASE LIGHT TO REMAIN. REWIRE AS SHOWN.
- CONNECT TYPE OC1 FIXTURES IN CANOPY TO CANOPY ROOM CONTROLLER SHOWN ON DRAWING E2.2
- CONTINUED ON DRAWING E2.2 FOR TYPE OW2B FIXTURES.
- DAYLIGHT ZONE.
- CONNECT TO ROOM CONTROLLERS IN CORRIDOR A108.
- SPACE TYPE OG1 FIXTURES 120 DEGREES AROUND FLAG POLE.

KEY PLAN



REVISIONS

NO.	DATE	BY	NAME	DESCRIPTION OF CHANGES

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717-458-0272

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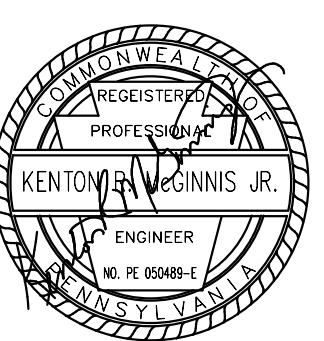
TOWSON, MARYLAND
CHARLOTTEVILLE, VIRGINIA
WHITE SULPHUR SPRINGS, WEST VIRGINIA

ADDITIONS AND RENOVATIONS TO
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SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010

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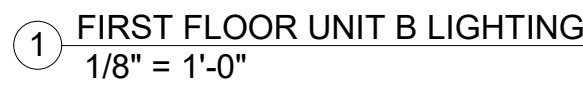
FIRST FLOOR UNIT A
LIGHTING

PLOT SCALE:
1/8" = 1'-0"
FILENAME:
240066
DATE:
MARCH 10, 2025



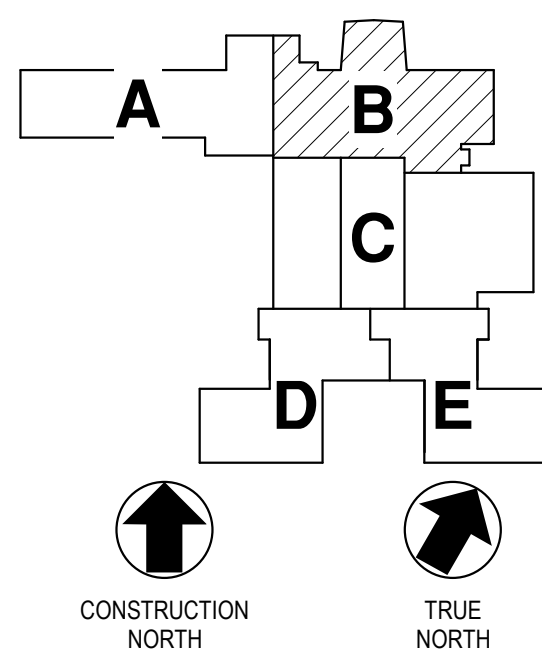
PROJECT
3758

E2.1



1. ALL EXISTING SIGNS ARE EXISTING AND TO BE REMOVED/REINSTALLED AS REQUIRED FOR CONSTRUCTION. EX1A EXISTING SIGNS ARE NEW. PROVIDE NEW EXISTING SIGNS AND CONNECT EXISTING SIGNS (EX1A/EX1A) WEST OF MEDIA CENTER B121 AND CAFETERIA B123 TO ELA1-19 AND REMAINING AREA TO EL1-19.
2. LIGHTING ROOM CONTROLLER LOCATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. MOUNT LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS AT OR CLOSE TO ROOM/AREA ENTRANCES WHERE POSSIBLE.
3. LIGHTING FIXTURES MUST BE COMPATIBLE WITH CONTROLS IN ALL SITES. PROVIDE ADDITIONAL CONTROLLERS, WIRING/CONDUITS AND DEVICES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.

1. REINSTALL EXISTING LIGHTING AS SHOWN. REMOVE EXISTING WIRING/CONDUIT AND PROVIDE NEW AS REQUIRED FOR THE NEW LIGHTING.
2. LIGHTING AND CONTROLS IN THIS SPACE ARE EXISTING TO REMAIN. PROVIDE REWORK OF EXISTING WIRING/CONDUIT AS REQUIRED FOR CONSTRUCTION.
3. CONNECT TO ALL LUMINAIRES IN THE ROOM. LUMINAIRES IN THIS ROOM ARE INTERIORS CONTROLS.
4. CAPTURE THE EXISTING NORMAL EMERGENCY CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED TO PROVIDE EMERGENCY OVERRIDE RELAY AND LIFE SAFETY HOMERUN AS SHOWN.
5. CAPTURE THE EXISTING NORMAL LIGHTING CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED AND PROVIDE HOMERUN AS INDICATED...
6. WITHIN EACH CLUSTER OF P6 FIXTURES, ONE SHALL BE MOUNTED AT 11' AFF TO BOTTOM OF FIXTURE. ONE AT 11' AND ONE AT 15' - RANDOMIZE HEIGHTS BETWEEN CLUSTERS OF THREE. REFER TO ARCHITECTURAL ELEVATIONS OF SPACE.
7. LOCATE ROOM CONTROLLER FOR CANOPY TYPE OC1 AND TYPE OW1 FIXTURES IN STORAGE ROOM B102. WIRE TYPE OC1 FIXTURES IN ONE ZONE AND TYPE OW1 FIXTURES TO SECOND ZONE.
8. FOR VESTIBULE B106 AND B107. P2 FIXTURES.
9. ROOM LIGHTING CONTROL FOR VESTIBULE B106 AND B107 LOCATED ABOVE ACCESSIBLE CEILING IN RECEPTION B104.
10. CONNECT TO ROOM LIGHT CONTROLLERS AND EMERGENCY OVERRIDE RELAYS IN COMMONS B113.
11. FOR MEDIA CENTER, MOUNT ABOVE ACCESSIBLE CEILING IN WORKROOM B122.
12. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES AND CONTROLS WITH MECHANICAL EQUIPMENT, DUCTWORK AND PIPING PRIOR TO ROUGH-IN.
13. WIRE TO UNSWITCHED LIGHTING BRANCH CIRCUIT.
14. MOUNT REMOTE POWER SUPPLIES FOR TYPE P2 AND P6 FIXTURES ABOVE ACCESSIBLE CEILING IN CAFETERIA B123 AND LIBRARY B121.
15. TYPE RD3 FIXTURES MOUNTED IN LOWER CEILING.
16. MOUNT IN LOW CEILING FOR TYPE RD3 FIXTURES IN VESTIBULES B106 AND B107.
17. MOUNT AT UPPER CEILING FOR TYPE 'd'.
18. FOR INTEGRAL DISPLAY CASE LIGHTING.
19. CONNECT TO ROOM CONTROLLER IN RECEIVING B132. MOUNT 96" ABOVE LOADING DOCK. (X45)
20. CONNECT TO ROOM CONTROLLER IN MECHANICAL B130 FOR TYPE OW1 FIXTURES.

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WHITE SULPHUR SPRINGS, WEST VIRGINIA

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PROJECT
3758

E2.2

3637 Columbia Avenue
Lancaster PA 17603
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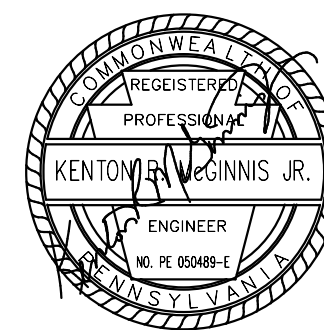
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FIRST FLOOR UI
LIGHTING

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

FILENAME:
0000

DATE: MARCH 10, 2025





1. ALL EX1 EXIT SIGNS ARE EXISTING AND TO BE REMOVED/REINSTALLED AS REQUIRED FOR CONSTRUCTION. EX1A EXIT SIGNS ARE NEW. PROVIDE A NEW EXIT SIGN CIRCUIT AND CONNECT ALL EXIT SIGNS (EX1/EX1A) IN THIS AREA TO CIRCUIT ELD-1-3.
2. LIGHTING ROOM CONTROLLER LOCATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. MOUNT LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS AT OR CLOSE TO ROOM/AREA ENTRANCES WHERE POSSIBLE.
3. LIGHTING FIXTURES MUST BE COMPATIBLE WITH CONTROLS IN ALL SPACES. PROVIDE ADDITIONAL CONTROLLERS, WIRING/CONDUIT AND DEVICES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.

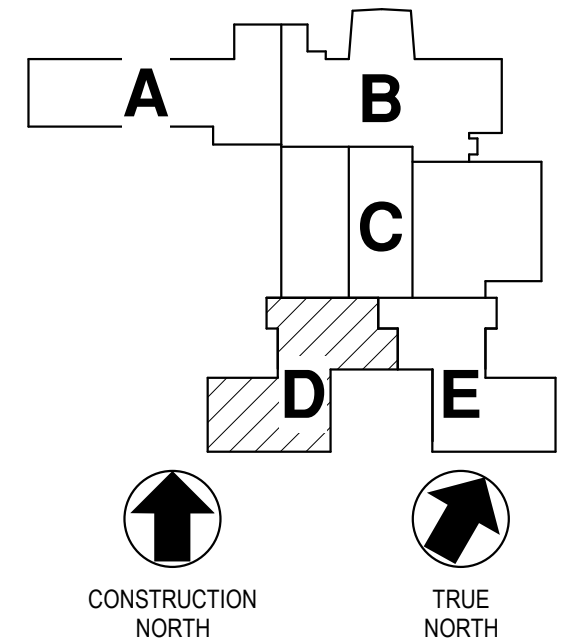
1. CONNECT TO ALL LUMINAIRES IN THE ROOM. LUMINAIRES IN THIS ROOM HAVE INTEGRAL CONTROLS.
2. CAPTURE THE EXISTING NORMAL LIGHTING CIRCUITS ABOVE CEILING. REWIRK/EXTEND WIRE/CONDUIT AS REQUIRED AND PROVIDE HOMERUN AS INDICATED.
3. CAPTURE THE EXISTING NORMAL EMERGENCY CIRCUITS ABOVE CEILING. REWIRK/EXTEND WIRE/CONDUIT AS REQUIRED TO PROVIDE EMERGENCY OVERRIDE RELAY AND LIFE SAFETY HOMERUN AS SHOWN.
4. LIGHTING AND CONTROLS IN THIS SPACE ARE EXISTING TO REMAIN. PROVIDE REWORK OF EXISTING WIRING/CONDUIT AS REQUIRED FOR CONSTRUCTION.
5. EXISTING LIGHTING AND CONTROLS TO REMAIN. HOMERUN TO CIRCUIT INDICATED.
6. REINSTALL EXISTING LIGHTING AS SHOWN. REWORK EXISTING WIRING/CONDUIT AND PROVIDE NEW AS REQUIRED FOR THE NEW LAYOUT.
7. FOR EXTERIOR TYPE OW2B AND OW1 FIXTURES.
8. CONNECT TO ROOM CONTROLLER IN THIRD GRADE D121 FOR TYPE OW1 FIXTURES.
9. CONNECT TO ROOM CONTROLLER IN THIRD GRADE D121 FOR TYPE OW2B FIXTURES.
10. DAYLIGHT ZONE.



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KEY PLAN



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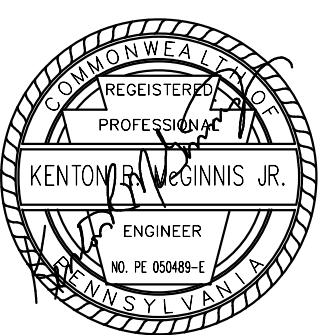
TOWSON, MARYLAND

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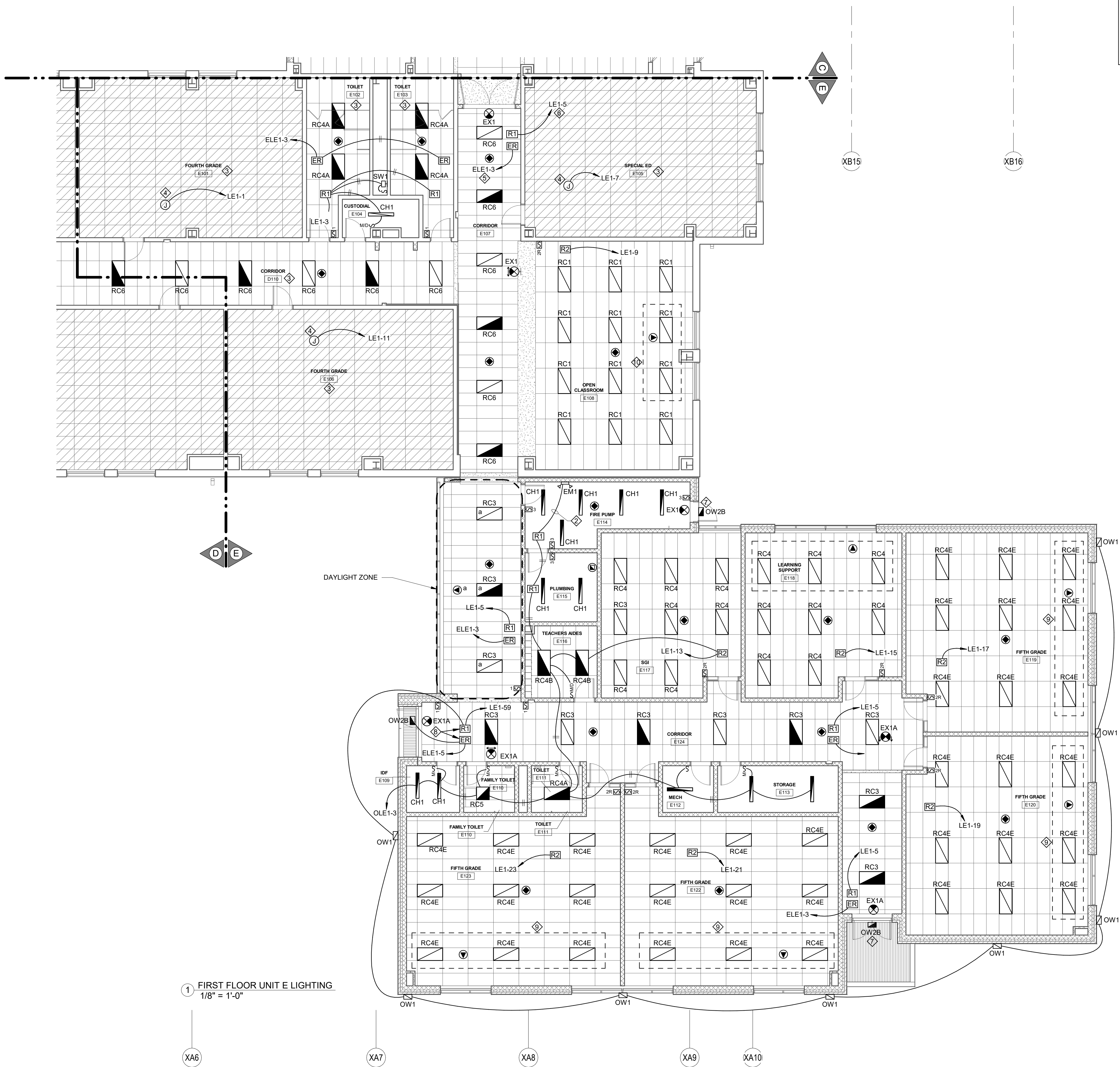
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FIRST FLOOR UNIT D
LIGHTING

PLOT SCALE:	1/8" = 1'-0"
FILENAME:	24066
DATE:	MARC

PROJECT
3758

E2.4



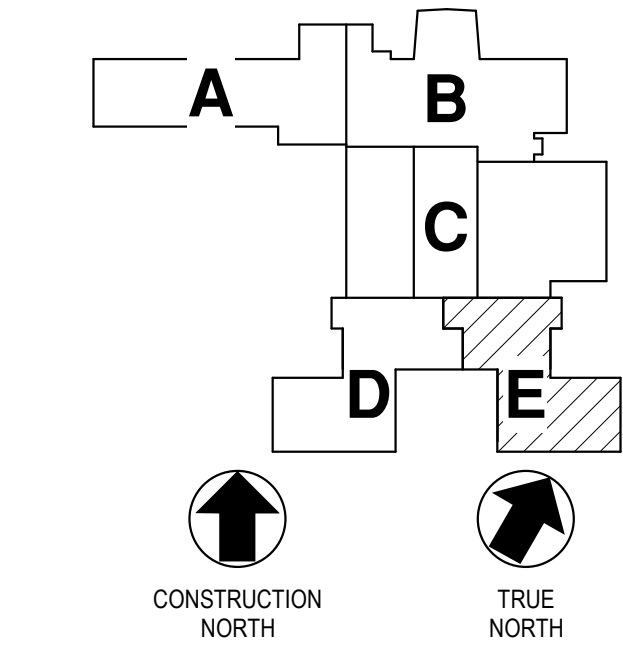
- GENERAL NOTES:**
 - ALL EX1 EXIT SIGNS ARE EXISTING AND TO BE REMOVED/REINSTALLED AS REQUIRED FOR CONSTRUCTION. EX1A EXIT SIGNS ARE NEW. PROVIDE A NEW EXIT SIGN CIRCUIT AND CONNECT ALL EXIT SIGNS (EX1/EX1A) IN THIS AREATO CIRCUIT ELE1-1.
 - LIGHTING ROOM CONTROLLER LOCATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. MOUNT LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS AT OR CLOSE TO ROOM/AREA ENTRANCES WHERE POSSIBLE.
 - LIGHTING FIXTURES MUST BE COMPATIBLE WITH CONTROLS IN ALL SPACES. PROVIDE ADDITIONAL CONTROLLERS, WIRING/CONDUIT AND DEVICES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
- DRAWING NOTES:**
 - CONNECT TO ALL LUMINAIRES IN THE ROOM. LUMINAIRES IN THIS ROOM HAVE INTEGRAL CONTROLS.
 - WIRED TO UNSWITCHED LIGHTING BRANCH CIRCUIT.
 - LIGHTING AND CONTROLS IN THIS SPACE ARE EXISTING TO REMAIN. PROVIDE REWORK OF EXISTING WIRING/CONDUIT AS REQUIRED FOR CONSTRUCTION.
 - EXISTING LIGHTING AND CONTROLS TO REMAIN. HOMERUN TO CIRCUIT INDICATED.
 - CAPTURE THE EXISTING NORMAL EMERGENCY CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED TO PROVIDE EMERGENCY OVERRIDE RELAY AND LIFE SAFETY HOMERUN AS SHOWN.
 - CAPTURE THE EXISTING NORMAL LIGHTING CIRCUITS ABOVE CEILING. REWORK/EXTEND WIRE/CONDUIT AS REQUIRED AND PROVIDE HOMERUN AS INDICATED.
 - CONNECT TO RROM CONTROLLER IN CORRIDOR E124 FOR TYPE OW2B FIXTURES.
 - FOR EXTERIOR TYPE OW2B AND OW1 FIXTURES.
 - DAYLIGHT ZONE.



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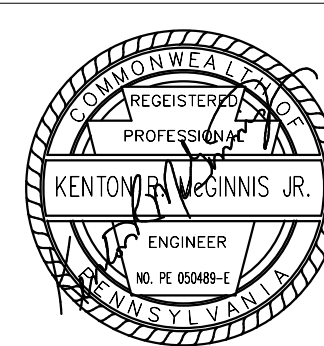
NO.	DATE	NAME	DESCRIPTION OF CHANGES

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401 EAST WINDING HILL ROAD
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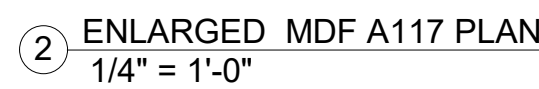


FIRST FLOOR UNIT E
LIGHTING

PLOT SCALE:
1/8" = 1'-0"
FILENAME:
240066
DATE:
MARCH 10, 2025

PROJECT
3758

E2.5



1. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
2. PROVIDE NEW SURFACE MENTAL RACEWAY TO SERVE POWER AND DATA FOR EXISTING WALLS. DEVICES IN NEW WALLS SHALL BE FLUSH MOUNTED COORDINATE ALL OUTLETS AND RACEWAY LOCATIONS/ELEVATIONS WITH ALL OTHERS ON ONE PRIOR TO ROUGH-IN.
3. FOR EXISTING CLASSROOMS REFER TO TEACHING WALL TYPICAL DETAIL ON SHEET E3.1.
4. FOR ALL ROOMS CONTAINING TELEPHONE, DATA, FIRE ALARM, PAGING, CLOCK AND SECURITY/ACCESS CONTROL OUTLETS/DEVICES, PROVIDE A 2' CORDLESS SLEEVE FOR LOW VOLTAGE CABLING FROM THE ROOM TO AN ACCESSIBLE CORRIDOR CEILING OR ADJACENT SPACE WITH AN ACCESSIBLE CEILING CONTAINING A LOW VOLTAGE SLEEVE TO ACCESSIBLE CORRIDOR CEILING.
5. REFER TO SPECIFICATIONS SECTION 260620 (2) FOR PANELBOARD SCHEDULES.
6. UNLESS OTHERWISE NOTED, RECEPTACLES SHOWN ON THIS SHEET ARE NEW.

1. PROVIDE WIRING/CONDUIT TO CU ON ROOF.
2. REFER TO DETAILS ON DRAWINGS E9.3 THROUGH E9.6 FOR WHETHER A SINGLE OR DOUBLE DUXLEY SHOULD BE PROVIDED.
3. SURFACE MOUNT ALONG BASE OF I. T.RACK/CABINET. ROUTE CONDUIT ALONG BASE OF RACK/CABINET TO WALL. COORDINATE WITH OWNER FOR LOCATION OF POWER ON RACK.
4. PROVIDE WALL MOUNTED TELECOMMUNICATION GROUNDING BUSBAR. REFER TO SPECIFICATION SECTION 270500, 3.2 FOR GROUNDING INFORMATION.
5. PROVIDE (3) 3" SQUARE EZ-PATH ACOUSTICS/SMOKE SLEEVES OR EQUIVALENT TO ABOVE ADJACENT CORRIDOR CEILING.
6. COVER WALL WITH WALL MOUNTED, FIRE-RATED, PAINTED PLYWOOD BACKBOARD.
7. CUT, PATCH, AND PREPARE WALL FOR FINISHES AS REQUIRED.
8. I.T RACK/CABINET, TYPE: REFER TO TELECOM RISER ON DWG E9.3.
9. DISPLAY CASE RECEPTACLE. REFER TO DWG NOTE 24E1.1.
10. CONNECT TO EXISTING RECEPTACLES IN THIS SPACE AND PROVIDE HOMERUN AS SHOWN.
11. REWORK/EXTEND AND PROVIDE NEW WIRING/CONDUIT AS REQUIRED TO RELOCATE FIRE ALARM CIRCUITS TO PANEL E41 AFTER THAT PANEL IS IN OPERATION. REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
12. VERTICAL WIRE MANAGER ADJACENT TO EACH SIDE OF I. T. RACK.
13. COORDINATE EXIST RACEWAY ROUTING AND OUTLET HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
14. DIVIDED SURFACE METAL RACEWAY (TYPICAL), ROUTE TRAY CLOSE TO CORNER OF ROOM OR CABLE TRAY AS PRACTICAL.
15. ALIGN END OF RACEWAY WITH EDGE OF MASTER BOARD.
16. PROVIDE BUMP-UP DEVICE PLATES AT TEACHERS OUTLET AND TV OUTLET.
17. FOR COUNTERTOP SPRAY BOOTH, PROVIDE CLASS 1, DIVISION 1 OUTLET BOOTH WIRING CONNECTIONS TO BOOTH AND ELECTRICAL OUTLETS WITHIN 3 FEET OF BOOTH OPENING OR WITHIN BOOTH. PROVIDE WIRING TO EXHAUST FAN, INTERNAL, CLASS 1, DIVISION 1 EXPLOSION PROOF LIGHT FIXTURE (RAB, MODEL PS-25) AND ASSOCIATED SWITCH.
18. AREA WITHIN SPRAY BOOTH AND 3 FEET FROM SPRAY BOOTH FRONT UPSWING SHALL BE WIRED AS A CLASS 1, DIVISION 1 HAZARDOUS AREA.
19. CONNECT TO EXISTING FAN SERVING THIS SPACE AND PROVIDE HOMERUN AS SHOWN.
20. WIRE TO WINDOW SHADE CONTROLLER "MLC" AT CEILING PER DETAIL 4/E10.2.
21. WINDOW SHADE CONTROLLER (MLC) AT CEILING. REFER TO DETAIL 4/E10.2 FOR WIRING COORDINATE BASELLOWER WALL STATION(S) LOCATION WITH GC AND ARCHITECT. BASE BID, INCLUDE ONE STATION PER MLC.

[illegible]

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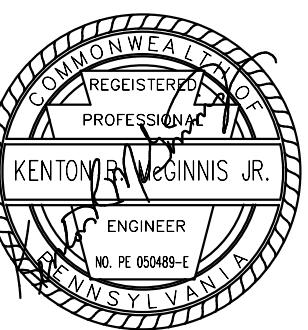
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ADDITIONS AND RENOVATIONS TO

PROJECT
3758

E3.1

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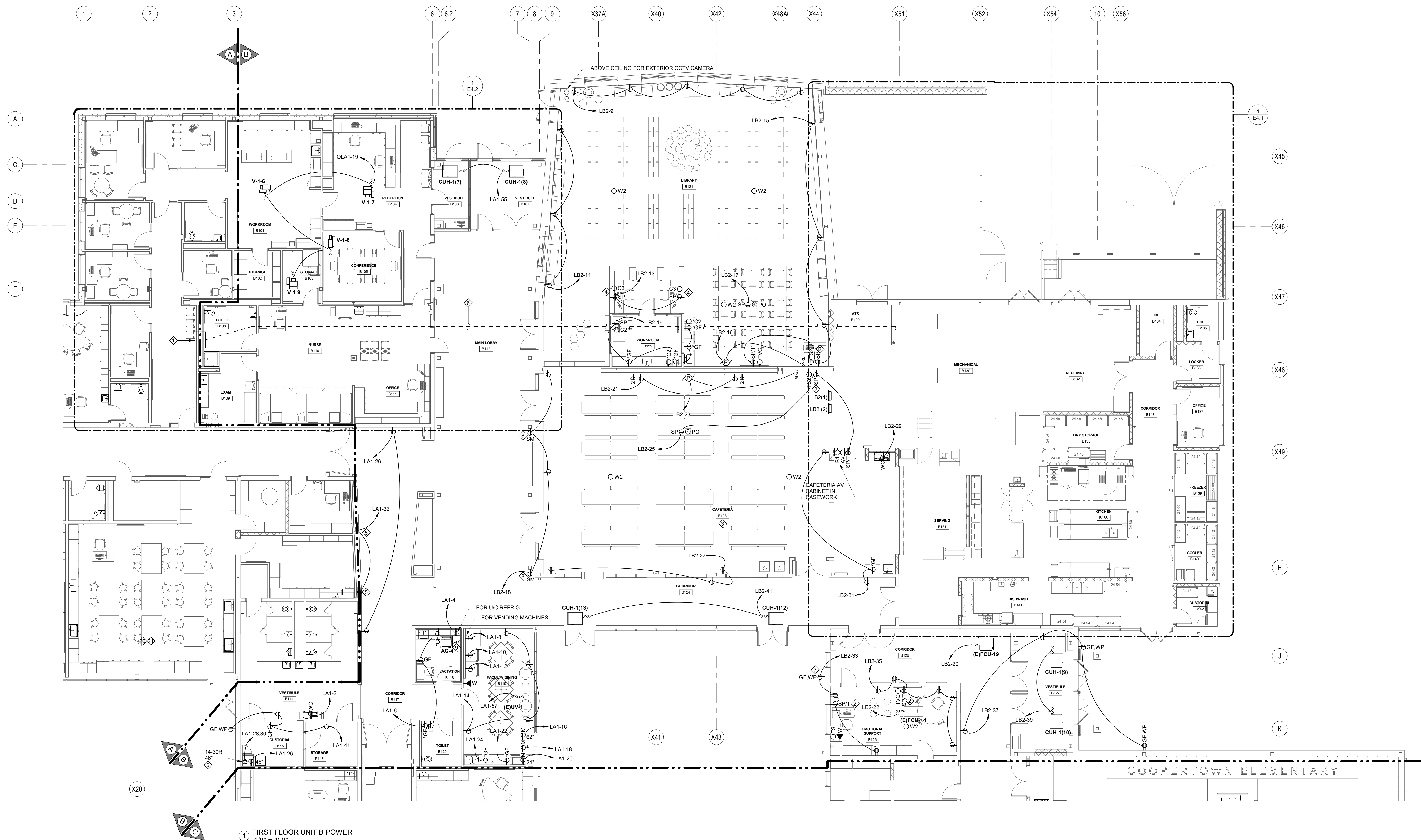


FIRST FLOOR UNIT A POWER

PLOT SCALE:
As indicated

FILENAME:
24066

DATE: MARCH 10, 2025



GENERAL NOTES

 DRAWING NOTES:



KEY PLAN

REVISIONS

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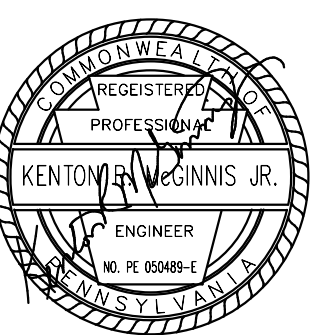
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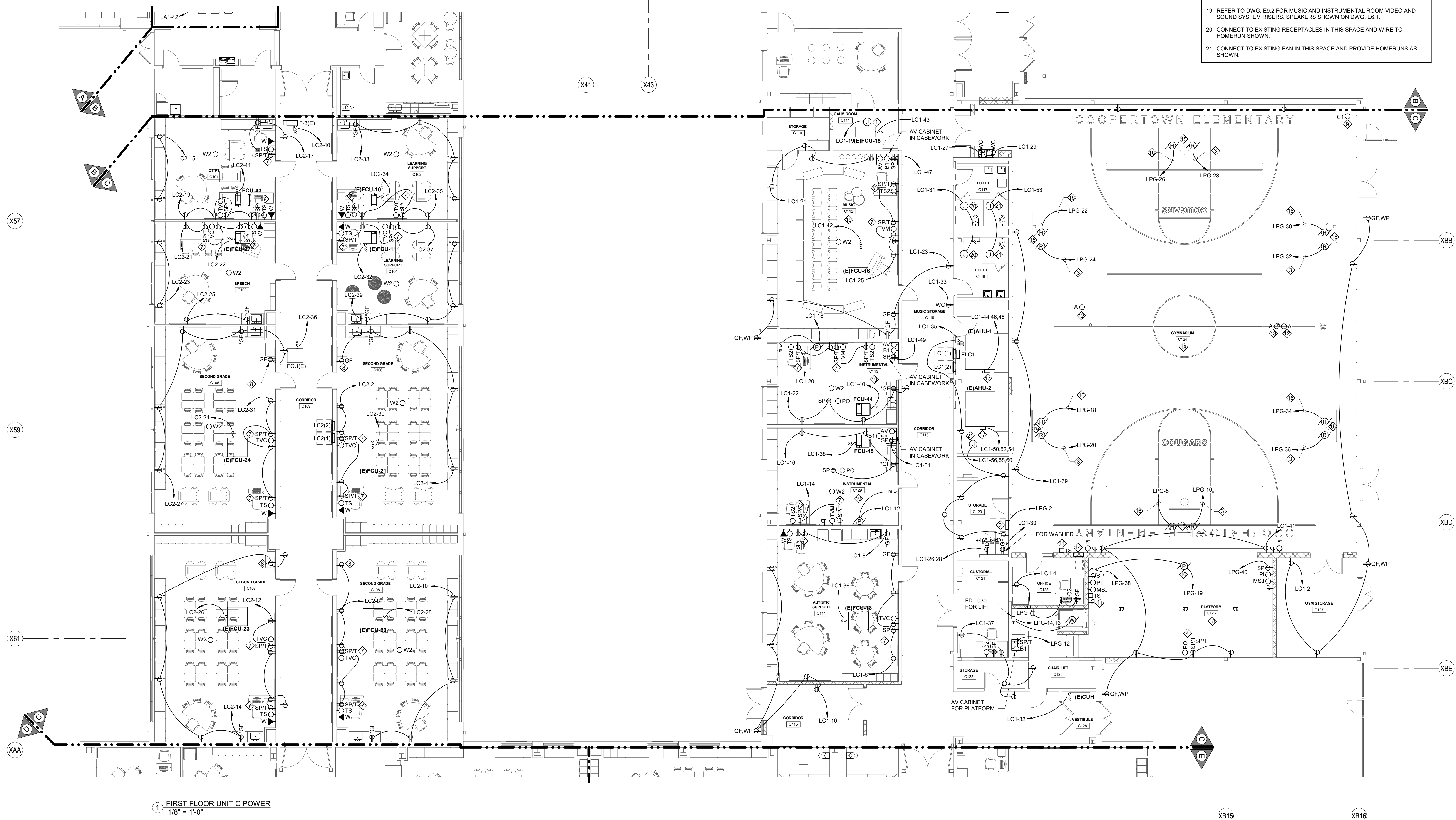
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SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD

PROJECT
3758

E3.2

CR





1 FIRST FLOOR UNIT C POWER
1/8" = 1'-0"

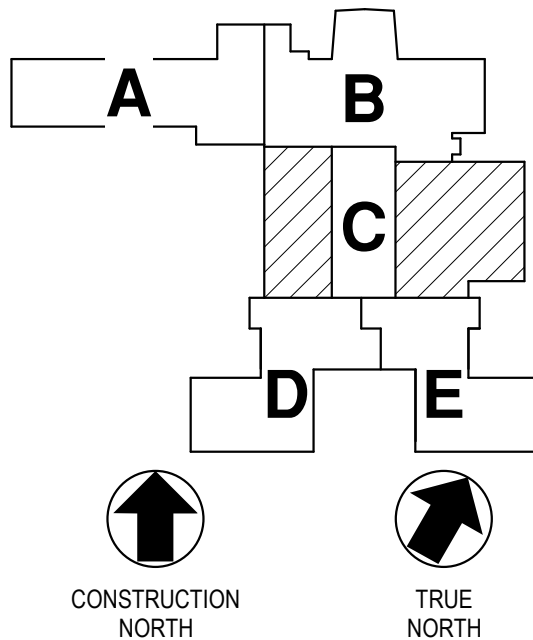
GENERAL NOTES:

1. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
2. PROVIDE NEW SURFACE METAL RACEWAY TO SERVE POWER AND DATA FOR EXISTING WALLS. DEVICES IN NEW WALLS SHALL BE FLUSH MOUNTED. COORDINATE ALL OUTLETS AND RACEWAY LOCATIONS/ELEVATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. FOR EXISTING CLASSROOMS REFER TO TEACHING WALL TYPICAL DETAIL ON SHEET E3.1.
4. FOR ALL ROOMS CONTAINING TELEPHONE, DATA, FIRE ALARM, PAGING, CLOCK AND SECURITY/ACCESS CONTROL OUTLETS/DEVICES, PROVIDE A 2" CONDUIT SLEEVE FOR LOW VOLTAGE CABLING FROM THE ROOM TO AN ACCESSIBLE CORRIDOR CEILING OR ADJACENT SPACE WITH AN ACCESSIBLE CEILING CONTAINING A LOW VOLTAGE SLEEVE TO ACCESSIBLE CORRIDOR CEILING.
5. REFER TO SPECIFICATIONS SECTION 260620 (2) FOR PANELBOARD SCHEDULES.
6. UNLESS OTHERWISE NOTED, RECEPTACLES SHOWN ON THIS SHEET ARE NEW.

DRAWING NOTES:

1. PROVIDE NO OUTLETS IN ROOM. PROVIDE ACCESSIBLE JUNCTION BOX AND BRANCH CIRCUIT FOR FUTURE ROOM OUTLETS.
2. OFCI GYM EQUIPMENT RELAY CONTROL PANEL.
3. 3#6 + 1#10 GND IN 1" CONDUIT TO CIRCUIT INDICATED VIA GYM EQUIPMENT RELAY CONTROL PANEL.
4. FOR REAR PROJECTION SCREEN, COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OTHER PLATFORM EQUIPMENT INSTALLATION PRIOR TO ROUGH-IN. PROVIDE SUPPORTS AND VIBRATION ISOLATION AS REQUIRED. PROVIDE WALL MOUNTING BRACKETS AND ARM EXTENSIONS BEYOND REAR STAGE CURTAIN AS REQUIRED.
5. NOTE NOT USED.
6. NOTE NOT USED.
7. REFER TO DETAILS ON DWGS E9.3 THROUGH E9.6 FOR WHETHER A SINGLE OR DOUBLE DUPLEX SHOULD BE PROVIDED.
8. FOR MOBILE LAPTOP CHARGING CART.
9. FOR EXTERIOR CCTV CAMERA.
10. ANGLE BRACKET MOUNT PROJECTION SCREEN ON PROSCENIUM WALL SUCH THAT SCREEN IS BETWEEN PROSCENIUM CURTAIN AND MOVABLE FRONT STAGE CURTAIN. INTERFACE OPERATION OF SCREEN BY AV SYSTEM CONTROLLER.
11. FOR AV SYSTEM IN GYMNASIUM C124/PLATFORM C126. MOUNT IN ADJACENT SHOWN TELEPHONE CABINET.
12. FOR WIRELESS MICROPHONE SYSTEM.
13. FOR ASSISTED LISTENING ANTENNA.
14. PROVIDE RECESSED TELEPHONE CABINET (HOFFMAN MODEL ATC2424F) TO MOUNT SOUND CONTROLS AND OFCI GYMNASIUM RELAY CONTROL PANEL REMOTE KEYPAD. VERIFY AND ADJUST SIZE AS NEEDED TO MOUNT ALL EQUIPMENT. PROVIDE DUAL TWISTED PAIR 12V SHIELDED CABLE IN 3/4" CONDUIT FOR GYMNASIUM RELAY CONTROL PANEL. VERIFY WITH MANUFACTURER BEFORE INSTALLING.
15. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGH-INS.
16. 4#6 1#10 GND IN 1" CONDUIT TO CIRCUIT INDICATED VIA GYM EQUIPMENT RELAY CONTROL PANEL.
17. PROVIDE NEMA 1, 240V, 60A/3P DISCONNECT SWITCH, FUSED PER EQUIPMENT MOOP.
18. REFER TO DWG. E9.2 FOR PLATFORM/GYMNASIUM VIDEO AND SOUND SYSTEM RISERS. SPEAKERS SHOWN ON DWG. E6.1.
19. REFER TO DWG. E9.2 FOR MUSIC AND INSTRUMENTAL ROOM VIDEO AND SOUND SYSTEM RISERS. SPEAKERS SHOWN ON DWG. E6.1.
20. CONNECT TO EXISTING RECEPTACLES IN THIS SPACE AND WIRE TO HOMERUN SHOWN.
21. CONNECT TO EXISTING FAN IN THIS SPACE AND PROVIDE HOMERUNS AS SHOWN.

KEY PLAN



REVISIONS

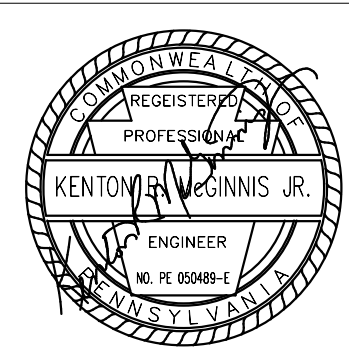
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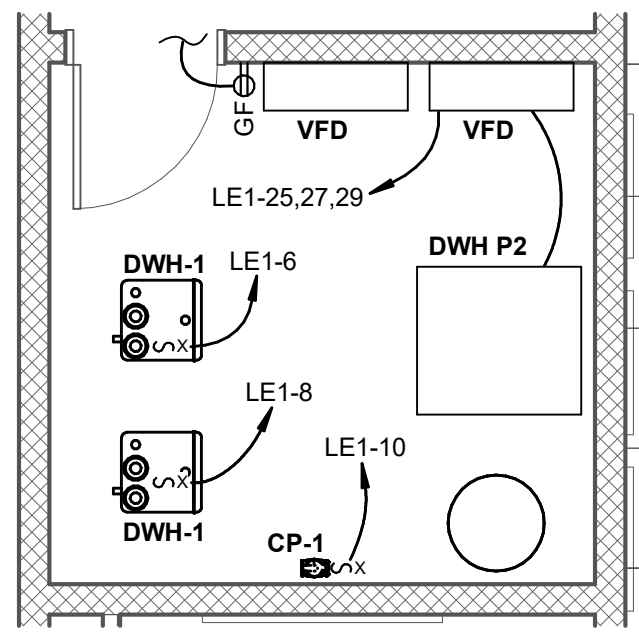
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SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
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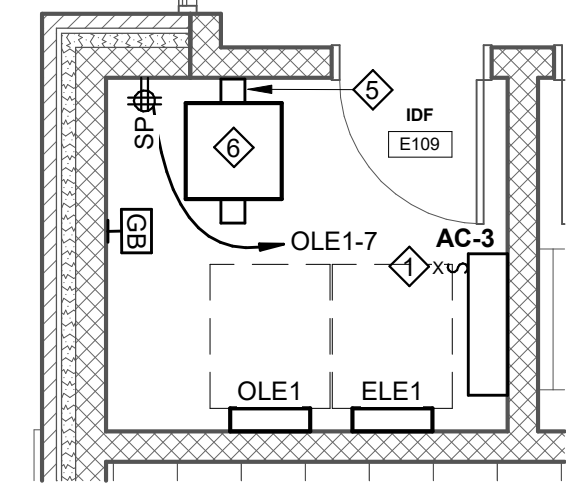
FIRST FLOOR UNIT C POWER
PLOT SCALE:
1/8" = 1'-0"
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758

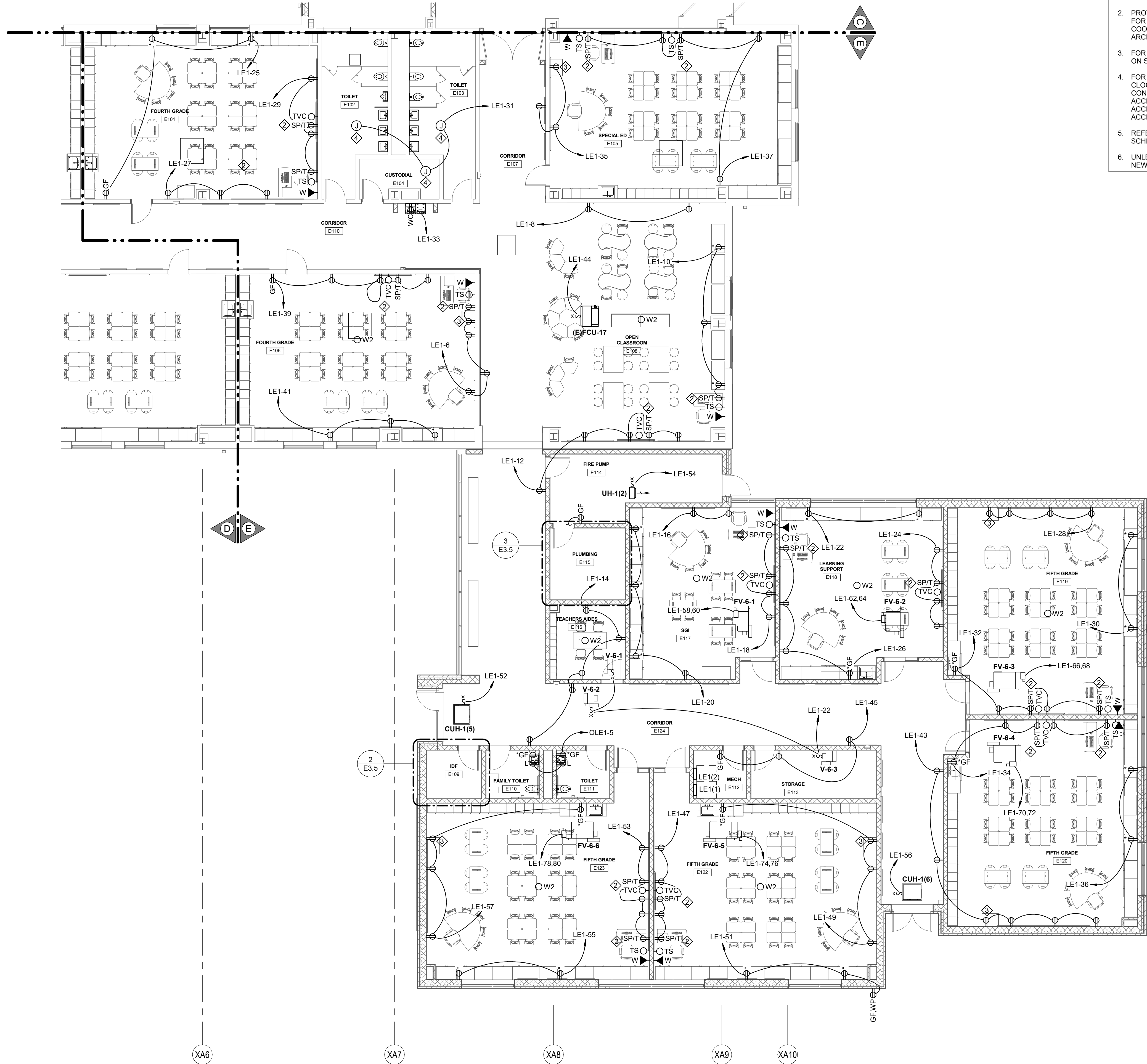
E3.3



3 ENLARGED PLUMBING E115
1/4" = 1'-0"



2 ENLARGED IDF E109
1/4" = 1'-0"



1 FIRST FLOOR UNIT E POWER
1/8" = 1'-0"

- DRAWING NOTES:**
1. PROVIDE WIRING/CONDUIT TO CU ON ROOF.
 2. REFER TO DETAILS ON DRAWINGS E9.3 THROUGH E9.6 FOR WHETHER A SINGLE OR DOUBLE DUPLEX SHOULD BE PROVIDED.
 3. FOR MOBILE LAPTOP CART.
 4. CONNECT TO EXISTING RECEPTACLES IN THIS SPACE AND PROVIDE HOMERUN AS SHOWN.
 5. VERTICAL MANAGER ON BOTH SIDES OF RACK.
 6. FLOOR MOUNTED RACK. REFER TO DWG. E8.3 FOR RACK INFORMATION AND EQUIPMENT.

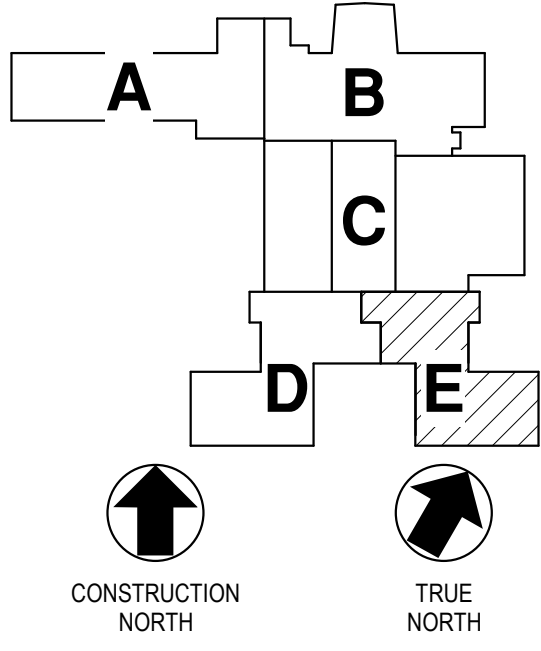
- GENERAL NOTES:**
1. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
 2. PROVIDE NEW SURFACE METAL RACEWAY TO SERVE POWER AND DATA FOR EXISTING WALLS. DEVICES IN NEW WALLS SHALL BE FLUSH MOUNTED. COORDINATE ALL OUTLETS AND RACEWAY LOCATIONS/ELEVATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
 3. FOR EXISTING CLASSROOMS REFER TO TEACHING WALL TYPICAL DETAIL ON SHEET E3.1.
 4. FOR ALL ROOMS CONTAINING TELEPHONE, DATA, FIRE ALARM, PAGING, CLOCK AND SECURITY/ACCESS CONTROL OUTLETS/DEVICES, PROVIDE A 2" CONDUIT SLEEVE FOR LOW VOLTAGE CABLING FROM THE ROOM TO AN ACCESSIBLE CORRIDOR CEILING OR ADJACENT SPACE WITH AN ACCESSIBLE CEILING CONTAINING A LOW VOLTAGE SLEEVE TO ACCESSIBLE CORRIDOR CEILING.
 5. REFER TO SPECIFICATIONS SECTION 280620 (2) FOR PANELBOARD SCHEDULES.
 6. UNLESS OTHERWISE NOTED, RECEPTACLES SHOWN ON THIS SHEET ARE NEW.



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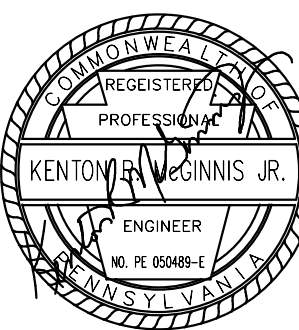
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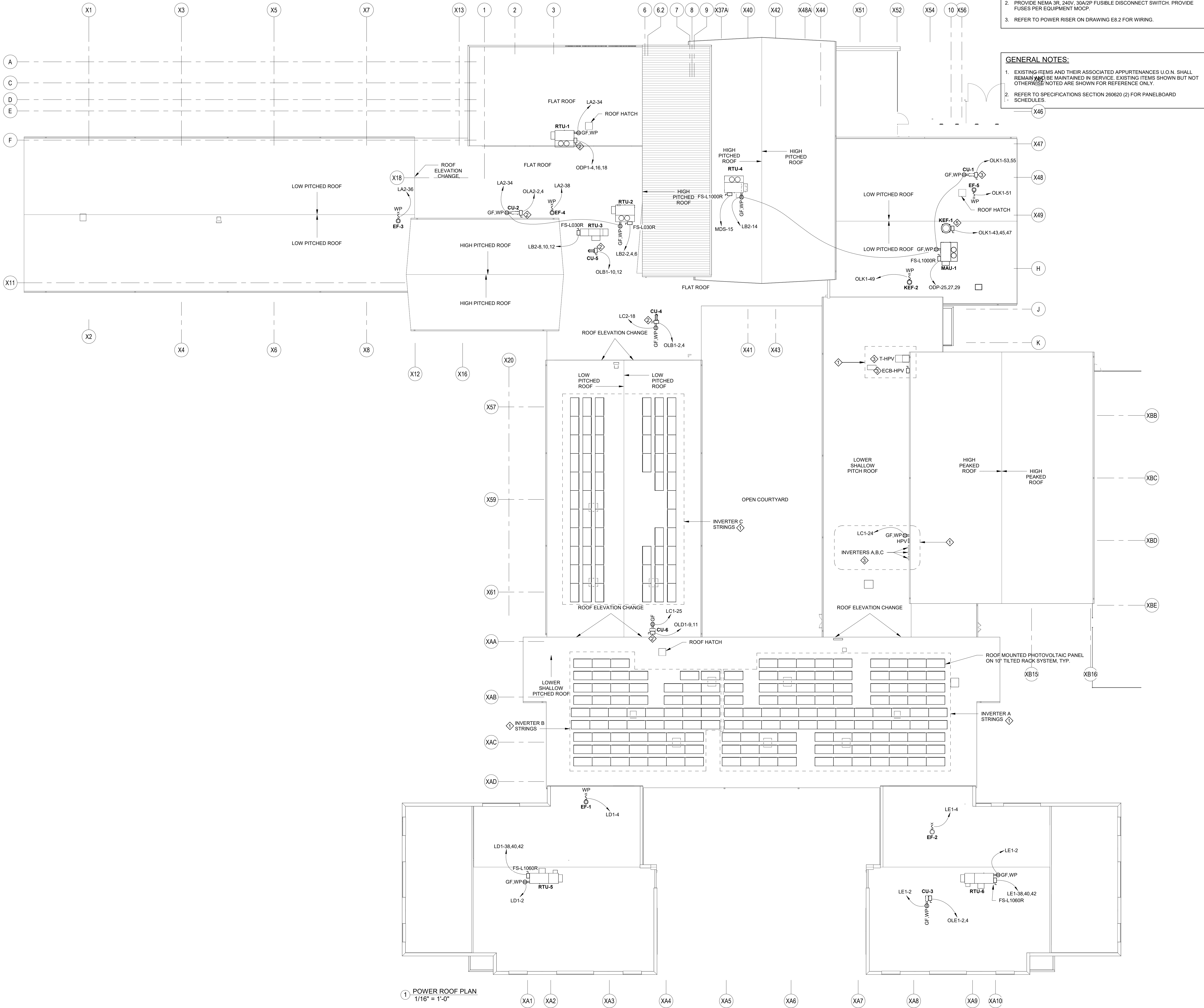


FIRST FLOOR UNIT E POWER

PLOT SCALE:
As indicated
FILENAME:
24066
DATE:
MARCH 10, 2025

PROJECT
3758

E3.5



- DRAWING NOTES:**

 - WORK PROVIDED AS PART OF ELECTRICAL ALTERNATE EC-3. ROUTE CABLES OVER ROOF ON SUPPORTS AS REQUIRED.
 - PROVIDE NEMA 3R, 240V, 30A/2P FUSIBLE DISCONNECT SWITCH. PROVIDE FUSES PER EQUIPMENT MOCP.
 - REFER TO POWER RISER ON DRAWING ES.2 FOR WIRING.
- GENERAL NOTES:**

 - EXISTING ITEMS AND THEIR ASSOCIATED APPURTENANCES U.O.N. SHALL REMAIN AND BE MAINTAINED IN SERVICE. EXISTING ITEMS SHOWN BUT NOT OTHERWISE NOTED ARE SHOWN FOR REFERENCE ONLY.
 - REFER TO SPECIFICATIONS SECTION 260620 (2) FOR PANELBOARD SCHEDULES.

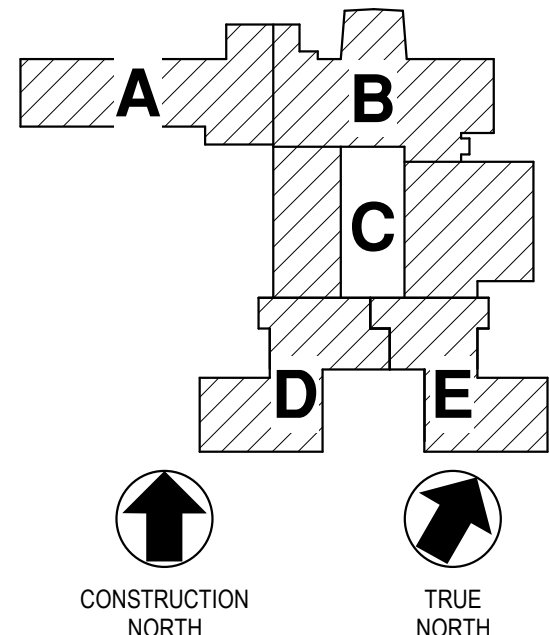
1 POWER ROOF PLAN
1/16" = 1'-0"



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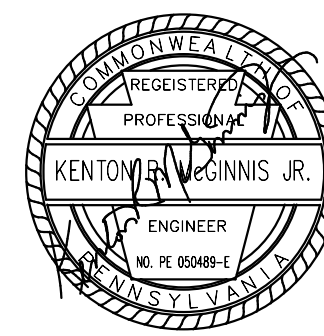
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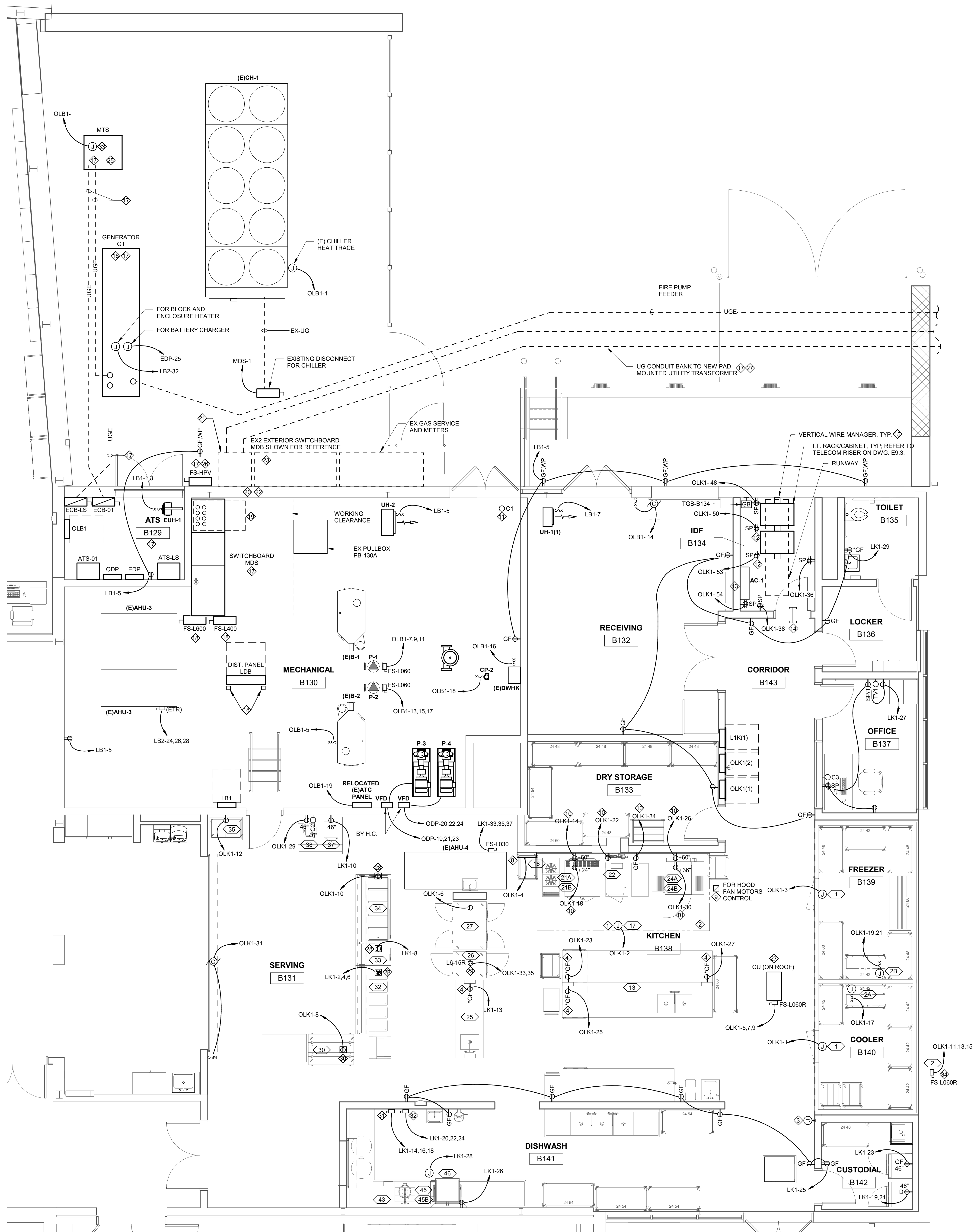


ROOF ELECTRICAL

PLOT SCALE:
1/16" = 1'-0"
FILENAME:
240066
DATE:
MARCH 10, 2025

PROJECT
3758

E3.6



1 ENLARGED KITCHEN / MECHANICAL PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. PROVIDE ALL FOOD SERVICE ROUGH-INS PER FOOD SERVICE EQUIPMENT PLAN FS102.
2. COORDINATE ALL FINAL KITCHEN EQUIPMENT WIRING DEVICES AND OUTLET LOCATIONS WITH THE APPROVED KITCHEN EQUIPMENT ROUGH-IN DRAWINGS.
3. IF FINAL KITCHEN EQUIPMENT HAS A CORD AND PLUG CONNECTION IN LIEU OF HARDWIRED, PROVIDE GROUND FAULT PROTECTION IN ACCORDANCE WITH NEC 210.8(B).
4. REFER TO SPECIFICATIONS SECTION 260620 (2) FOR PANELBOARD SCHEDULES.

DRAWING NOTES:

1. PROVIDE ALL CONDUIT/WIRING AS REQUIRED FOR HOOD, HOOD ACCESSORIES AND HOOD CONTROL SYSTEM. REFER TO HOOD CONTROL DETAIL ON FOOD SERVICE DRAWINGS.
2. PROVIDE CONDUIT/WIRING AS REQUIRED BETWEEN HOOD CONTROL SYSTEM AND ROOFTOP HOOD EXHAUST SYSTEM.
3. PROVIDE FLUSH MOUNTED OCTAGONAL BOX AND CONCEALED 3/4" CONDUIT WITH NO 90-DEGREE BENDS BETWEEN RECESSED REMOTE PULL STATION AND FIRE SUPPRESSION SYSTEM PANEL.
4. STUB DOWN FROM ABOVE CEILING, WIRE THROUGH UTILITY CHASE. COUNTER PROVIDED WITH EMPTY BOXES. EC TO PROVIDE ALL WIRING/CONDUIT/OUTLETS AND CONNECTIONS AS REQUIRED.
5. STUB UP FROM FLOOR, WIRE THROUGH UTILITY CHASE. COUNTER PROVIDED WITH EMPTY BOXES. EC TO PROVIDE ALL WIRING/CONDUIT/OUTLETS AND CONNECTIONS AS REQUIRED.
6. COORDINATE FINAL LOCATION WITH GC AND FSEC.
7. PROVIDE CONDUIT/WIRING AS REQUIRED BETWEEN CONTROL SYSTEM AND ROOFTOP MAKE-UP AIR UNIT.
8. PROVIDE WIRING TO CONTROL 4-POLE CONTACTOR AND GAS SOLENOIDS USED WITH EQUIPMENT PROTECTED BY RESPECTIVE FIRE SUPPRESSION SYSTEM.
9. PROVIDE 4-POLE MECHANICALLY HELD CONTACTOR WITH 2-WIRE CONTROL COIL IN A NEMA 1 ENCLOSURE. CONTACTOR SHALL BE USED WITH CIRCUITS AT HOOD EQUIPMENT #17. CONTACTOR SHALL BE LOCATED ABOVE CEILING AT PANEL OLB1. REFER TO HOOD CONTROL AND TYPICAL ANSUL UL300 R-102 FIRE PROTECTION SYSTEM DETAILS.
10. WIRE CIRCUIT THRU 4-POLE CONTACTOR.
11. FOR EXTERIOR CCTV CAMERA.
12. SURFACE MOUNT ALONG BASE OF I.T. RACK/CABINET ROUTE CONDUIT ALONG BASE OF RACK/CABINET TO WALL.
13. COVER 4" WIDE WIDTH OF WALL WITH FIRE-RATED, PAINTED PLYWOOD BACKBOARD.
14. PROVIDE TWO (2) 3" SQUARE EZ-PATH ACOUSTIC/SMOKE SLEEVE OR EQUIVALENT TO ABOVE ADJACENT ACCESSIBLE CEILING AREA.
15. PROVIDE ON EACH SIDE OF EACH I.T. RACK.
16. REFER TO POWER RISER ON DRAWING E8.2 FOR GENERATOR START WIRING AND ANNUNCIATOR WIRING. INSTALL WIRING IN DEDICATED RACEWAYS.
17. REFER TO POWER RISER FOR WIRING ON DRAWING E8.2.
18. MOUNT ON UNISTRUT SUPPORTS.
19. PROVIDE PULL BOX ABOVE SWITCHBOARD SIZED AS REQUIRED.
20. PROVIDE BLANK OFF PANEL FOR WINDOW PENETRATION OF CONDUIT BANK.
21. PROVIDE LARGE EXTERIOR PULL BOX PB-SE FOR SERVICE FEEDER CONDUIT RISE FROM UNDERGROUND.
22. SERVICE ENTRANCE FEEDER ROUTING ABOVE EXISTING SWITCHBOARD MDB.
23. PROVIDE TEMPORARY FIRE PUMP TAP. REFER TO EXISTING POWER RISER ON E8.1.
24. CONDUIT BANK INCLUDES SERVICE ENTRANCE FEEDER, FIRE PUMP FEEDER (TEMPORARY AND PERMANENT) AND FIRE PUMP GENERATOR START CIRCUIT.
25. PROVIDE GENERATOR START CIRCUIT FOR RENTAL GENERATOR IN SEPARATE DEDICATED CONDUIT.
26. FOR UTILITY/FIRST RESPONDER PHOTOVOLTAIC SHUTOFF. PLACARD PER NEC REQUIREMENTS.
27. COORDINATE LOCATION WITH GC AND FSEC.
28. PROVIDE KITCHEN FLOOR PEDASTAL OUTLET.
29. PROVIDE 3-FOOT TYPE 50 CORD WITH L6-15P CONNECTOR AND A 6-15P CONNECTOR. CONFIRM AND COORDINATE RECEPTACLE AND PLUG CONFIGURATION IN FIELD PRIOR TO ROUGH-IN.
30. PROVIDE RECESSED FLOOR OUTLET.
31. PROVIDE 30A, 240V, 3-POLE FUSIBLE DISCONNECT SWITCH IN NEMA 4X ENCLOSURE. PROVIDE FUSED SIZED FOR EQUIPMENT.
32. PROVIDE 60A, 240V, 3-POLE FUSIBLE DISCONNECT SWITCH IN NEMA 4X ENCLOSURE. PROVIDE FUSED SIZED FOR EQUIPMENT.
33. FOR MTS STRIP HEATER.
34. COORDINATE IN FIELD EXACT LOCATION OF WALK-IN COOLER/FREEZER REFRIGERATION RACK SYSTEM ON GRADE OR ON ROOF WITH FOOD SERVICE INSTALLER PRIOR TO ROUGH-IN. LOCATION WITHIN 100 CONDUCTOR FEET OF THIS LOCATION SHALL BE INCLUDED IN BID.



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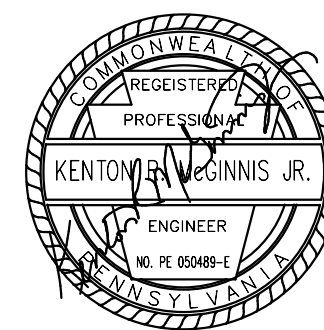
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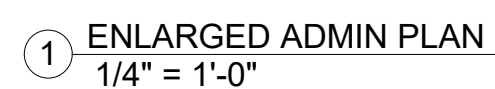


PARTIAL PLANS

PLOT SCALE:
1/4" = 1'-0"
FILENAME:
24066
DATE:
MARCH 10, 2025

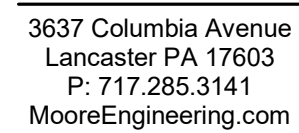
PROJECT
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E4.1



1. COORDINATE ALL TELEVISION MOUNTING HEIGHTS AND LOCATIONS INFIELD PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
3. REFER TO SPECIFICATIONS SECTION 260620 (2) FOR PANELBOARD SCHEDULES.

1. PROVIDE HOSPITAL GRADE DEVICES AND WIRING IN THIS ROOM.
2. PROVIDE 2-CHANNEL SURFACE RACEWAY TO UNDERSIDE OF COUNTER SURFACE, FACING DOWN. PAINT IN COLOR SELECTED BY ARCHITECT.
3. FOR INTERCOM/PA SYSTEM CABINET.
4. PROVIDE 12"x12"x4" FLUSH MOUNTED PULLBOX AT 18" AFF FOR INTERCOM/PA SYSTEM WIRING COVER. PROVIDE (2) 1-1/2" CONDUIT FROM BOX AND STUB OUT ABOVE CEILING WITH PLASTIC BUSHINGS.
5. COORDINATE MOUNTING HEIGHT AND LOCATION INFIELD WITH MICROWAVE SHELF AND ARCHITECTURAL ELEVATIONS.
6. CONCEAL WIRING IN CASEWORK TO WALL.
7. MOUNT IN SURFACE RACEWAY UNDER COUNTER.
8. CUT AND PATCH STONE WALL FINISH AS REQUIRED TO INSTALL RECEPTACLE FLUSH.
9. HOMERUN TO RECEPTACLE SHALL BE WIRED BELOW FINISHED FLOOR.



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ENLARGED PLANS

PLOT SCALE:
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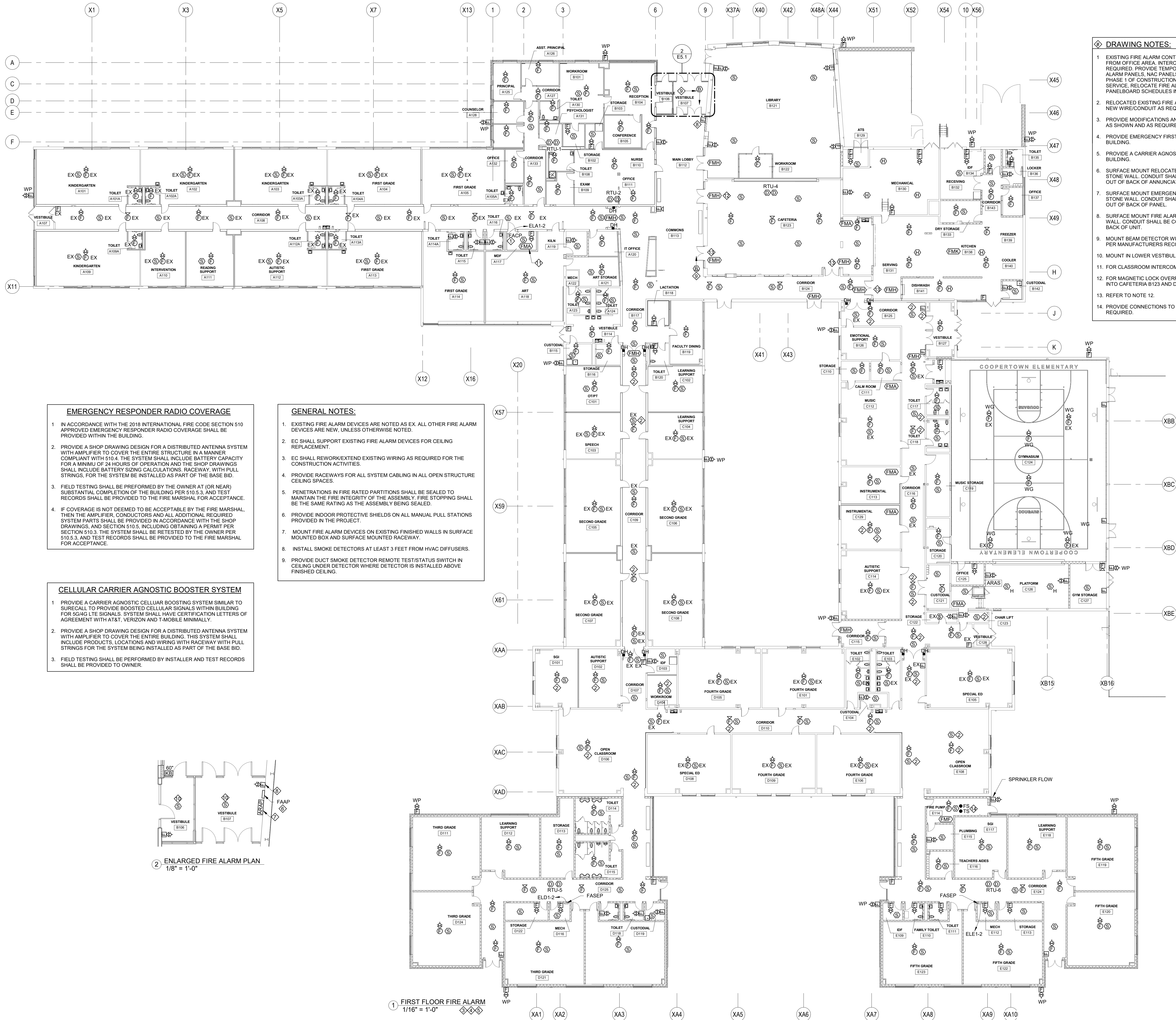
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E4.2



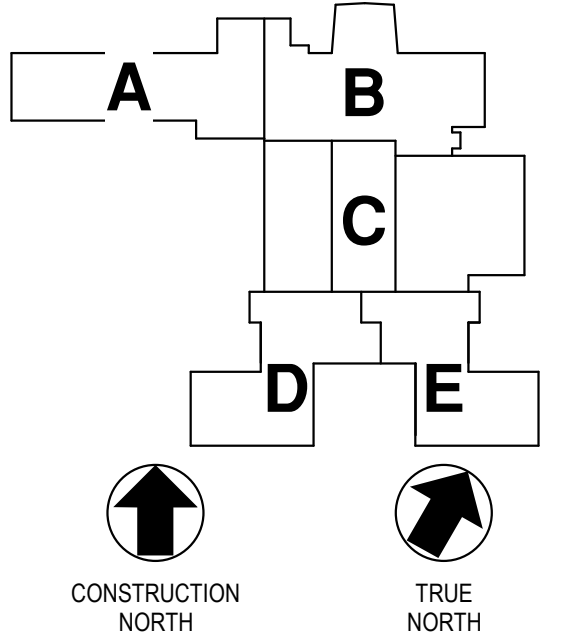
- DRAWING NOTES:**
- EXISTING FIRE ALARM CONTROL PANELS AND NAC PANELS. RELOCATED FROM OFFICE AREA. INTERCONNECTED AND PROVIDE NEW CABLING AS REQUIRED. PROVIDE TEMPORARY CIRCUITS TO PANEL 02A2 FOR FIRE ALARM PANELS, NAC PANELS AND OTHER FIRE ALARM SYSTEM CIRCUITS IN PHASE 1 OF CONSTRUCTION. WHEN PANEL ELA1 IS INSTALLED AND IN SERVICE, RELOCATE FIRE ALARM CIRCUITS TO PANEL ELA1. REFER TO PANELBOARD SCHEDULES IN SPECIFICATIONS AND SHEET E5.1.
 - RELOCATED EXISTING FIRE ALARM DEVICE. REWORK/EXTEND, PROVIDE NEW WIRE/CONDUIT AS REQUIRED.
 - PROVIDE MODIFICATIONS AND ADDITIONS TO VOICE FIRE ALARM SYSTEM AS SHOWN AND AS REQUIRED.
 - PROVIDE EMERGENCY FIRST RESPONDER RADIO COVERAGE FOR BUILDING.
 - PROVIDE A CARRIER AGNOSTIC CELLULAR BOOSTING SYSTEM FOR BUILDING.
 - SURFACE MOUNT RELOCATED FIRE ALARM ANNUNCIATOR ON EXISTING STONE WALL. CONDUIT SHALL BE CONCEALED INTO WALL BEHIND STONE OUT OF BACK OF ANNUNCIATOR. REFER TO DWG NOTE 33E1.1.
 - SURFACE MOUNT EMERGENCY COMMUNICATION PANEL ON EXISTING STONE WALL. CONDUIT SHALL BE CONCEALED INTO WALL BEHIND STONE OUT OF BACK OF PANEL.
 - SURFACE MOUNT FIRE ALARM NOTIFICATION UNIT ON EXISTING STONE WALL. CONDUIT SHALL BE CONCEALED INTO WALL BEHIND STONE OUT OF BACK OF UNIT.
 - MOUNT BEAM DETECTOR WITHIN 2 FEET OF CEILING PEAK AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - MOUNT IN LOWER VESTIBULE CEILING.
 - FOR CLASSROOM INTERCOM SYSTEM OVERRIDE.
 - FOR MAGNETIC LOCK OVERRIDE FOR ALL THREE SETS OF DOUBLE DOORS INTO CAFETERIA B123 AND DOUBLE DOOR INTO SERVING B131.
 - REFER TO NOTE 12.
 - PROVIDE CONNECTIONS TO FLOW AND TAMPER SWITCH QUANTITIES AS REQUIRED.



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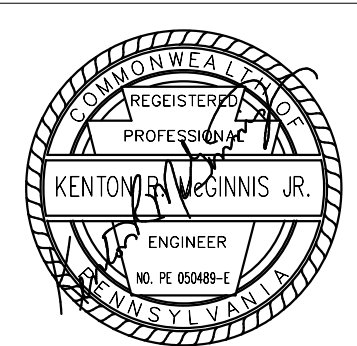
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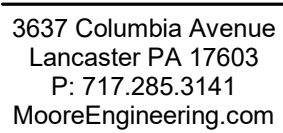
FIRST FLOOR FIRE ALARM
AND CELLULAR EXTENSION

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E5.1



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CONSTRUCTION TRUE

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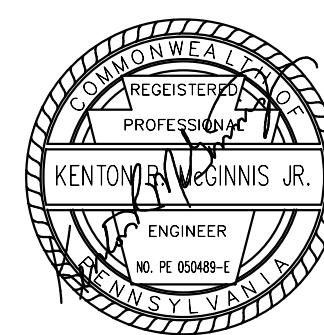
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FIRST FLOOR SECURITY

PLOT SCALE:

As indicated

FILENAME:
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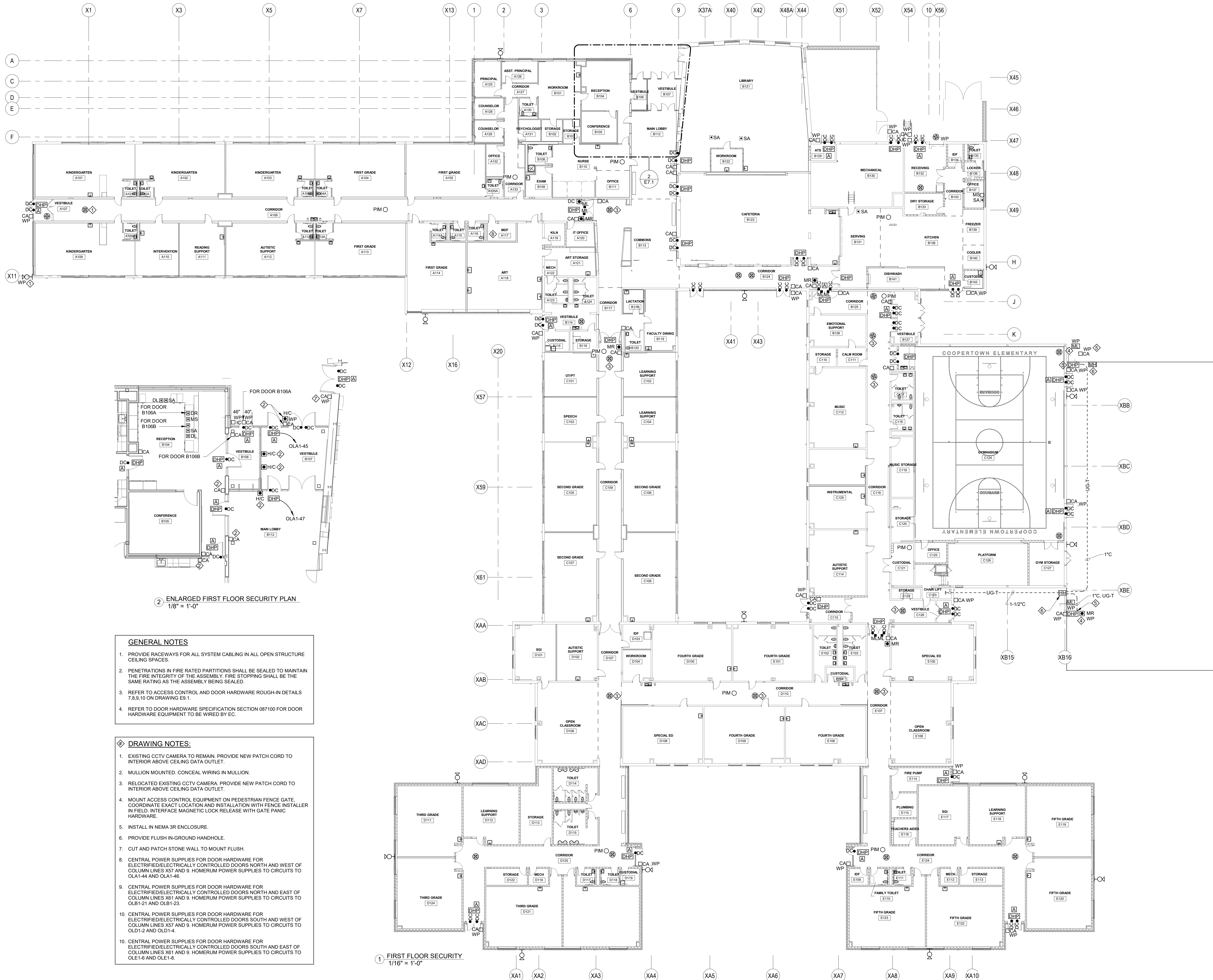
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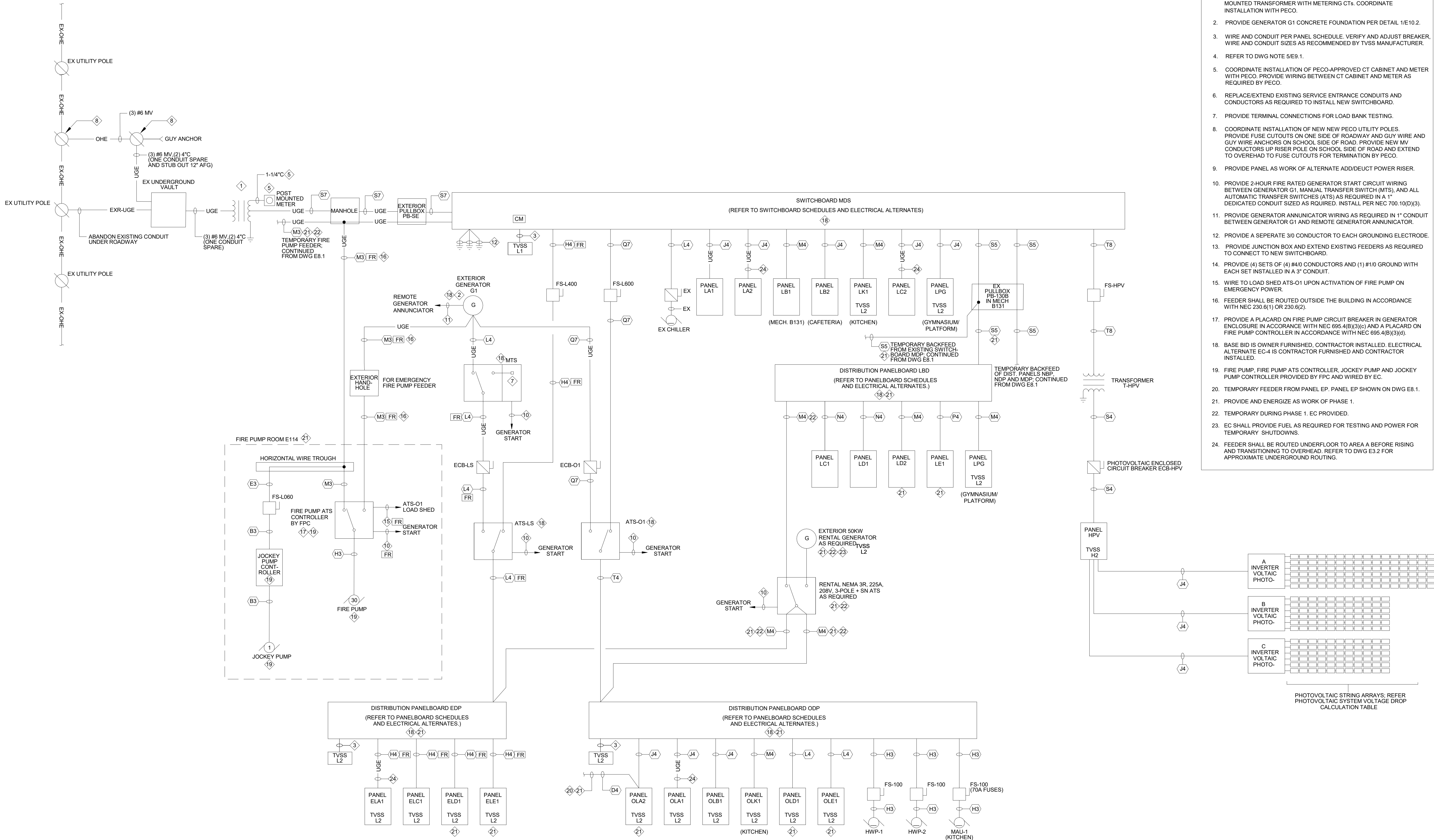
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E7.1



1. PROVIDE RACEWAYS FOR ALL SYSTEM CABLING IN ALL OPEN STRUCTURE CEILING SPACES.
2. PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE SEALED TO MAINTAIN THE FIRE INTEGRITY OF THE ASSEMBLY. FIRE STOPPING SHALL BE THE SAME RATING AS THE ASSEMBLY BEING SEALED.
3. REFER TO ACCESS CONTROL AND DOOR HARDWARE ROUGH-IN DETAILS 7.8,9,10 ON DRAWING E9.1.
4. REFER TO DOOR HARDWARE SPECIFICATION SECTION 087100 FOR DOOR HARDWARE EQUIPMENT TO BE WIRED BY EC.

1. EXISTING CCTV CAMERA TO REMAIN. PROVIDE NEW PATCH CORD TO INTERIOR ABOVE CEILING DATA OUTLET.
2. MULLION MOUNTED. CONCEAL WIRING IN MULLION.
3. RELOCATED EXISTING CCTV CAMERA. PROVIDE NEW PATCH CORD TO INTERIOR ABOVE CEILING DATA OUTLET.
4. MOUNT ACCESS CONTROL EQUIPMENT ON PEDESTRIAN FENCE GATE. COORDINATE EXACT LOCATION AND INSTALLATION WITH GATE INSTALLER IN FIELD SERVICE MAGNETIC LOCK RELEASE WITH GATE PANIC HARDWARE.
5. INSTALL IN NEMA 3R ENCLOSURE.
6. PROVIDE FLUSH IN-GROUND HANDHOLE.
7. CUT AND PATCH STONE WALL TO MOUNT FLUSH:
8. CENTRAL POWER SUPPLIES FOR DOOR HARDWARE FOR ELECTRICALLY/ELECTRICALLY CONTROLLED DOORS NORTH AND WEST OF COLUIM LINES X67 AND 9. HOMERUM POWER SUPPLIES TO CIRCUITS TO OLAI-44 AND OLAI-46.
9. CENTRAL POWER SUPPLIES FOR DOOR HARDWARE FOR ELECTRICALLY/ELECTRICALLY CONTROLLED DOORS NORTH AND EAST OF COLUIM LINES X61 AND 9. HOMERUM POWER SUPPLIES TO CIRCUITS TO OLB1-21 AND OLB1-23.
10. CENTRAL POWER SUPPLIES FOR DOOR HARDWARE FOR ELECTRICALLY/ELECTRICALLY CONTROLLED DOORS SOUTH AND WEST OF COLUIM LINES X67 AND 9. HOMERUM POWER SUPPLIES TO CIRCUITS TO OLB1-22 AND OLB1-24.
11. CENTRAL POWER SUPPLIES FOR DOOR HARDWARE FOR ELECTRICALLY/ELECTRICALLY CONTROLLED DOORS SOUTH AND EAST OF COLUIM LINES X61 AND 9. HOMERUM POWER SUPPLIES TO CIRCUITS TO OLB1-25 AND OLB1-27.



POWER RISER
NO SCALE

GENERAL NOTES:

- ALL EXISTING ELECTRICAL ITEMS AND THEIR ASSOCIATED APPURTENANCES SHALL REMAIN AND BE MAINTAINED IN SERVICE UNLESS OTHERWISE NOTED. EXISTING ITEMS SHOWN, BUT NOT OTHERWISE NOTED, ARE SHOWN FOR REFERENCE ONLY.
- COORDINATE ELECTRICAL SERVICE REPLACEMENT AND UPGRADES WITH PECO. PHASE WORK TO MAINTAIN EXISTING ELECTRICAL SERVICE TO SCHOOL TO EXISTING SCHOOL ELECTRICAL DISTRIBUTION HAS BEEN REMOVED AND EXISTING LOADS REDED FROM NEW SERVICE.
- REFER TO PANELBOARD AND SWITCHBOARD SCHEDULES IN SPECIFICATIONS 200620.
- ANY FEEDERS INSTALLED OUTSIDE BUILDING UNDERGROUND SHALL BE CONCRETE ENCASED.
- ALL CONDUCTORS ON THIS DRAWING ARE COPPER UNLESS NOTED OTHERWISE.
- ENCLOSED CIRCUIT BREAKERS AND FUSED DISCONNECT SWITCHES SHALL BE IN NEMA 1 ENCLOSURES UNLESS OTHERWISE NOTED.
- PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL SWITCHBOARDS AND TRANSFORMERS.

DRAWING NOTES:

- PROVIDE PAD MOUNTED TRANSFORMER VAULT FOR NEW PECO PAD MOUNTED TRANSFORMER WITH METERING CTs. COORDINATE INSTALLATION WITH PECO.
- PROVIDE GENERATOR G1 CONCRETE FOUNDATION PER DETAIL 1/E10.2.
- WIRE AND CONDUIT PER PANEL SCHEDULE. VERIFY AND ADJUST BREAKER, WIRE AND CONDUIT SIZES AS RECOMMENDED BY TVSS MANUFACTURER.
- REFER TO DWG NOTE S/E9.1.
- COORDINATE INSTALLATION OF PECO-APPROVED CT CABINET AND METER WITH PECO. PROVIDE WIRING BETWEEN CT CABINET AND METER AS REQUIRED BY PECO.
- REPLACE/EXTEND EXISTING SERVICE ENTRANCE CONDUITS AND CONDUCTORS AS REQUIRED TO INSTALL NEW SWITCHBOARD.
- PROVIDE TERMINAL CONNECTIONS FOR LOAD BANK TESTING.
- COORDINATE INSTALLATION OF NEW NEW PECO UTILITY POLES. PROVIDE FUSE CUTOUPS ON ONE SIDE OF ROADWAY AND GUY WIRE AND GUY WIRE ANCHORS ON SCHOOL SIDE OF ROAD. PROVIDE NEW MV CONDUCTORS UP RISER POLE ON SCHOOL, SIDE OF ROAD AND EXTEND TO OVERHEAD TO FUSE CUTOUPS FOR TERMINATION BY PECO.
- PROVIDE PANEL AS WORK OF ALTERNATE ADD/DEDUCT POWER RISER.
- PROVIDE 2-HOUR FIRE RATED GENERATOR START CIRCUIT WIRING BETWEEN GENERATOR G1, MANUAL TRANSFER SWITCH (MTS), AND ALL AUTOMATIC TRANSFER SWITCHES (ATS) AS REQUIRED IN A 1" DEDICATED CONDUIT SIZED AS REQUIRED. INSTALL PER NEC 700.10(D)(3).
- PROVIDE GENERATOR ANNUNCIATOR WIRING AS REQUIRED IN 1" CONDUIT BETWEEN GENERATOR G1 AND REMOTE GENERATOR ANNUNCIATOR.
- PROVIDE A SEPERATE 3/0 CONDUCTOR TO EACH GROUNDING ELECTRODE.
- PROVIDE JUNCTION BOX AND EXTEND EXISTING FEEDERS AS REQUIRED TO CONNECT TO NEW SWITCHBOARD.
- PROVIDE (4) SETS OF (4) #4/0 CONDUCTORS AND (1) #1/0 GROUND WITH EACH SET INSTALLED IN A 3" CONDUIT.
- WIRE TO LOAD SHED ATS-01 UPON ACTIVATION OF FIRE PUMP ON EMERGENCY POWER.
- FEEDER SHALL BE ROUTED OUTSIDE THE BUILDING IN ACCORDANCE WITH NEC 230.6(1) OR 230.6(2).
- PROVIDE A PLACARD ON FIRE PUMP CIRCUIT BREAKER IN GENERATOR ENCLOSURE IN ACCORDANCE WITH NEC 695.4(B)(3)(c) AND A PLACARD ON FIRE PUMP CONTROLLER IN ACCORDANCE WITH NEC 695.4(B)(3)(d).
- BASE BID IS OWNER FURNISHED, CONTRACTOR INSTALLED. ELECTRICAL ALTERNATE EC-4 IS CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
- FIRE PUMP, FIRE PUMP ATS CONTROLLER, JOCKEY PUMP AND JOCKEY PUMP CONTROLLER PROVIDED BY FPC AND WIRED BY EC.
- TEMPORARY FEEDER FROM PANEL EP. PANEL EP SHOWN ON DWG E8.1.
- PROVIDE AND ENERGIZE AS WORK OF PHASE 1.
- TEMPORARY DURING PHASE 1. EC PROVIDED.
- EC SHALL PROVIDE FUEL AS REQUIRED FOR TESTING AND POWER FOR TEMPORARY SHUTDOWNS.
- FEEDER SHALL BE ROUTED UNDERFLOOR TO AREA A BEFORE RISING AND TRANSITIONING TO OVERHEAD. REFER TO DWG E3.2 FOR APPROXIMATE UNDERGROUND ROUTING.

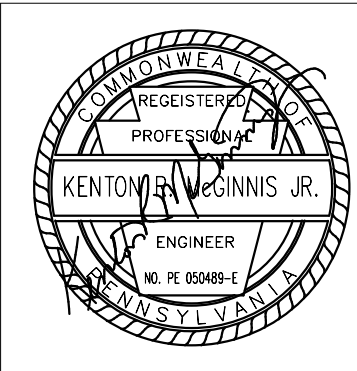
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NO	DATE	NAME	DESCRIPTION OF CHANGES

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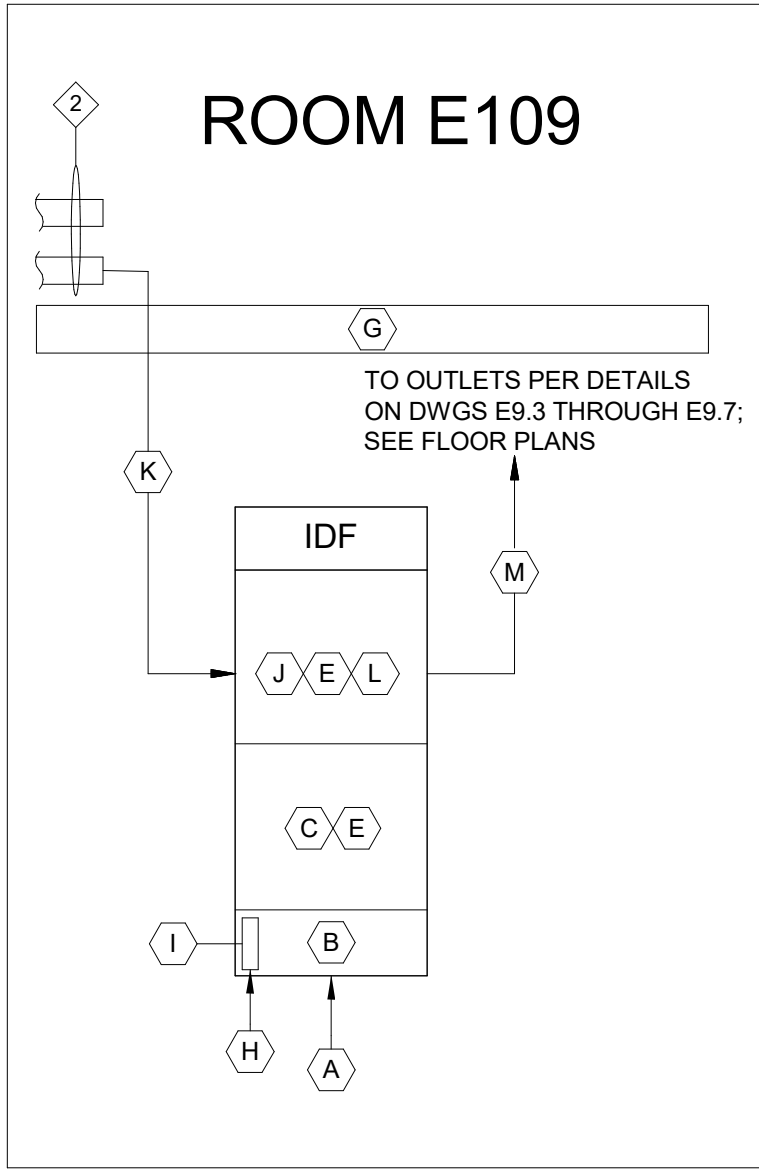
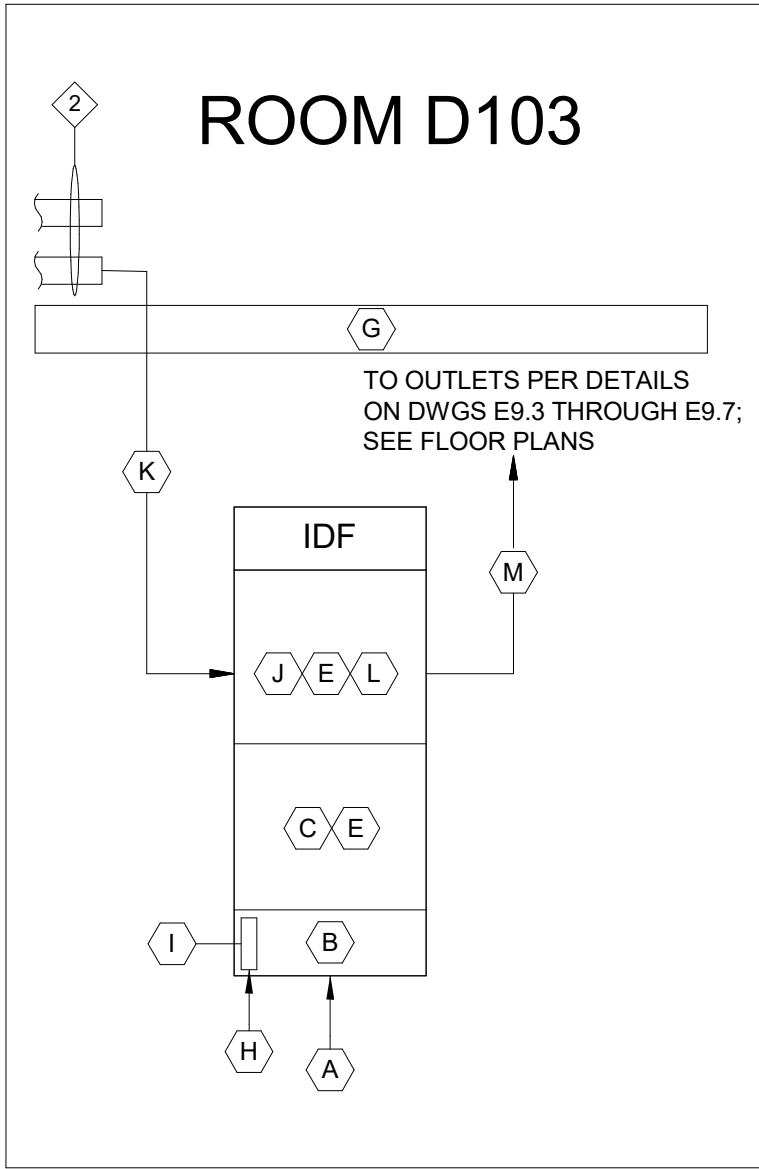
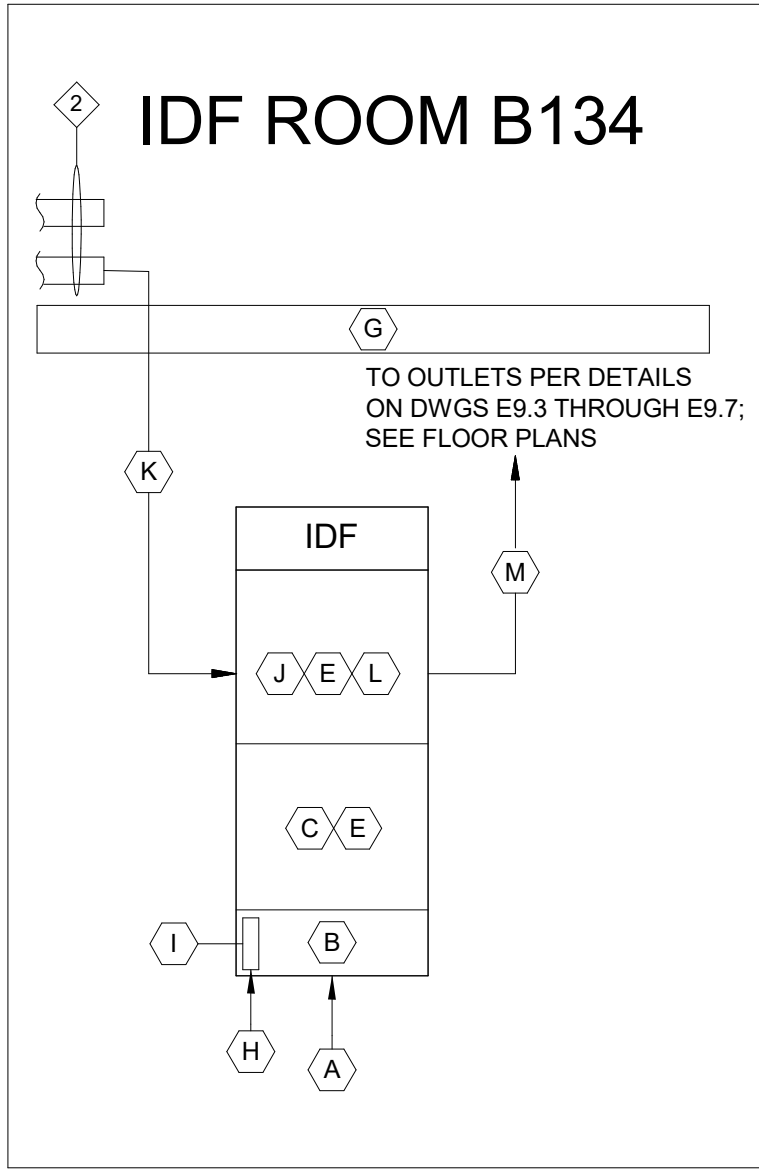
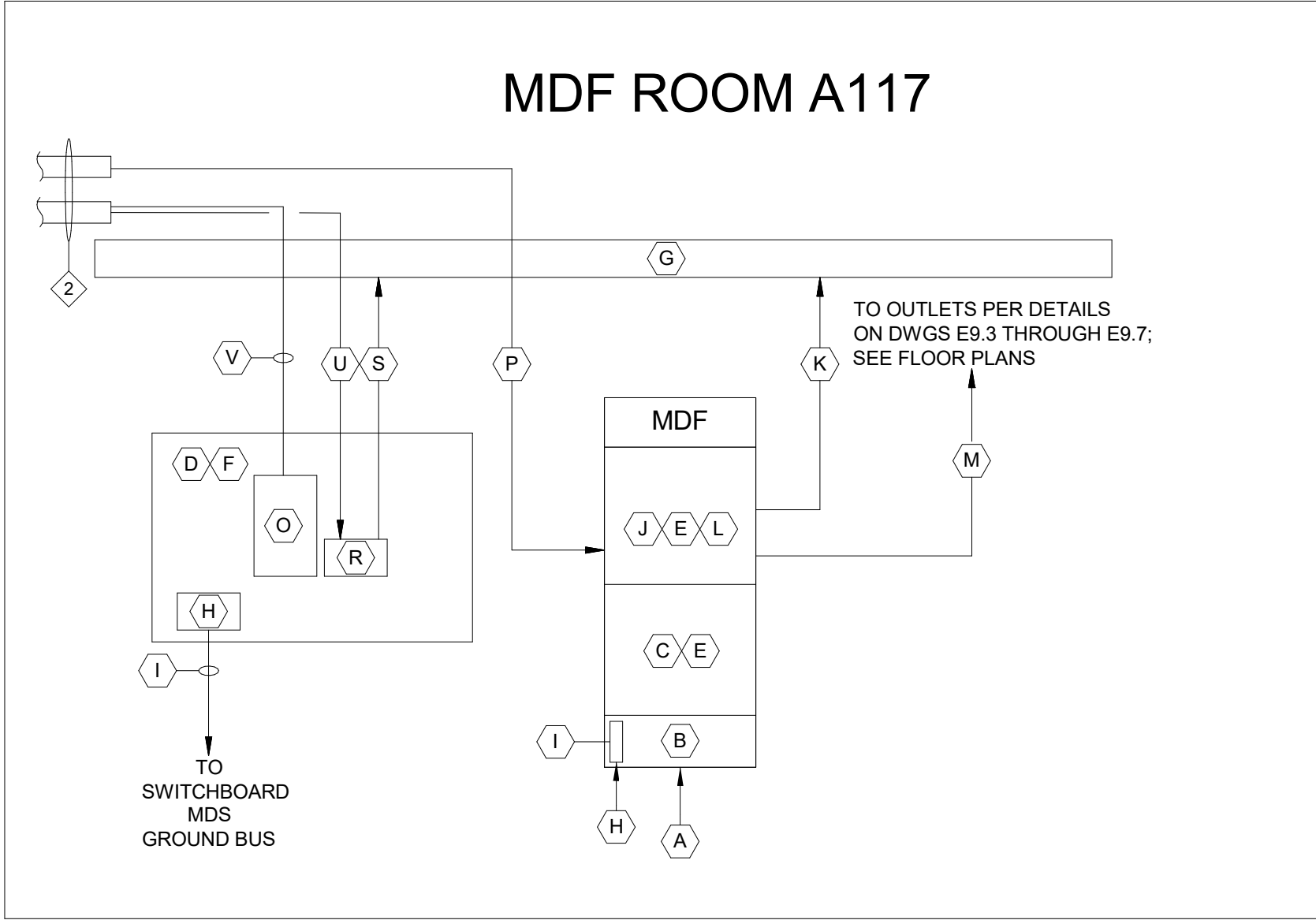
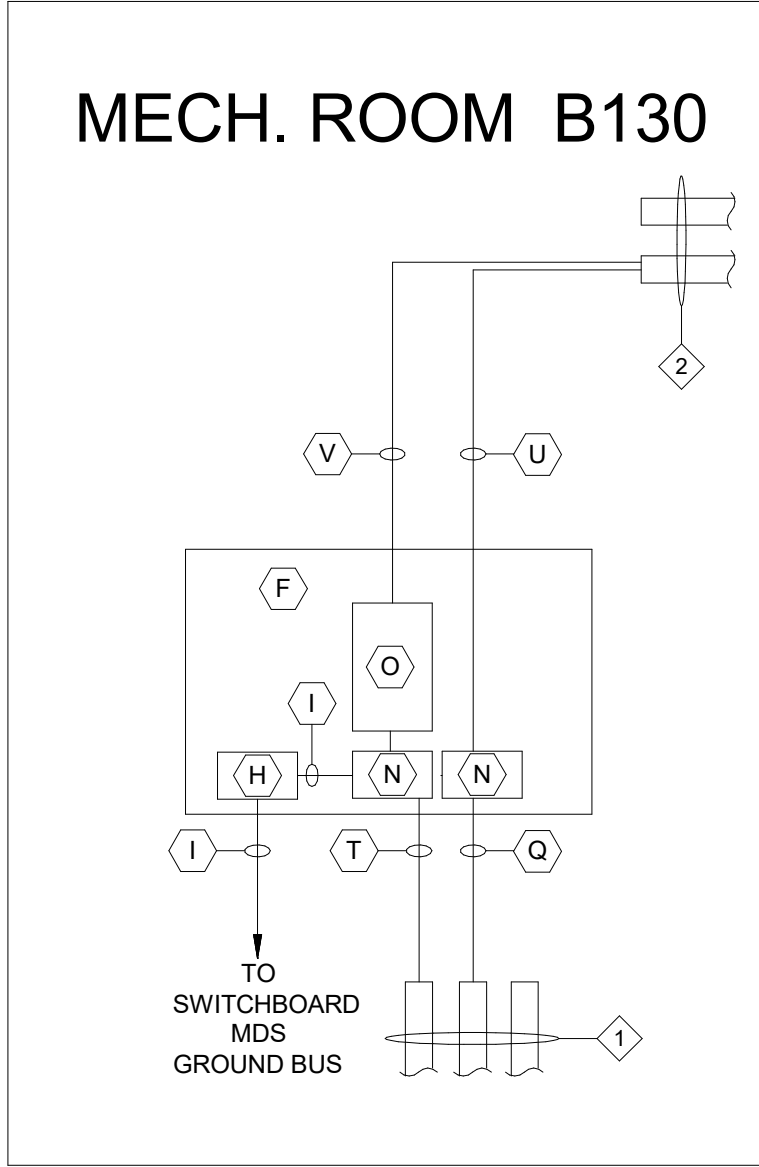


POWER RISER

PROJECT
3758

E8.2

PLOT SCALE:
FILENAME:
240066
DATE:
MARCH 10, 2025



TELECOMMUNICATIONS RISER DIAGRAM
NO SCALE

CABLING SCHEDULE MECHANICAL ROOM B130
TELEPHONE PATCH: (IDF E109 ONLY) 50-PAIR CATEGORY 5E S86 BLOCK.

CABLING SCHEDULE MAIN DISTRIBUTION FRAME ROOM A169
RACK STYLE: 2 POST RACK SEE SPECIFICATIONS PROVIDE TWO FLOOR MOUNTED RACKS.
RACK STYLE: 4 POST RACK SEE SPECIFICATIONS PROVIDE ONE FLOOR MOUNTED RACKS.
INCOMING FIBER PATCH: 24 PORT LC CONNECTION FIBER OPTIC RACK MOUNT PATCH PANEL. VERIFY TYPE NEEDED.
FIBER BACKBONE: UTILITY FIBER
OUTGOING FIBER PATCH TO IDF'S: (1) 12 PORT LC CONNECTION FIBER OPTIC RACK MOUNT PATCH PANELS.
VOICE/DATA OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
WIFI OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
CCTV CAMERA OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
TELEPHONE PATCH: 50-PAIR CATEGORY 5E S86 BLOCK.

CABLING SCHEDULE INTERMEDIATE DISTRIBUTION FRAME ROOMS B134, D103, E109
RACK STYLE: 2 POST RACK SEE SPECIFICATIONS PROVIDE TWO FLOOR MOUNTED RACKS IN EACH ROOM EXCEPT ROOM E110 WHICH WILL HAVE ONE RACK.
INCOMING FIBER PATCH: 12 PORT LC CONNECTION FIBER OPTIC RACK MOUNT PATCH PANEL.
FIBER BACKBONE: 12 STRAND SINGLE MODE FIBER FROM MDF RACK.
VOICE/DATA OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
WIFI OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
CCTV CAMERA OUTLET PATCH: CATEGORY 6A RACK MOUNT PATCH PANELS WITH PORT QUANTITY REQUIRED + 20% SPARE.
TELEPHONE PATCH: (IDF E109 ONLY) 50-PAIR CATEGORY 5E S86 BLOCK.

GENERAL NOTES:

- THESE PLANS INDICATE GENERAL PATHWAY REQUIREMENTS. PROVIDE ADDITIONAL SLEEVES, CONDUIT AND CABLE TRAY AS REQUIRED.
- CABLE TRAY, CONDUIT AND SLEEVES ARE TO BE USED FOR LOW VOLTAGE AND FIBER OPTIC CABLE SUPPORT AND PROTECTION.
- COORDINATE RACEWAY AND SLEEVE INSTALLATIONS WITH ALL OTHER SYSTEMS.
- PROVIDE RACEWAYS FOR ALL SYSTEM CABLING IN ALL OPEN STRUCTURE CEILING SPACES.
- PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE SEALED TO MAINTAIN THE FIRE INTEGRITY OF THE ASSEMBLY. FIRE STOPPING SHALL BE THE SAME RATING AS THE ASSEMBLY BEING SEALED.
- ALL RUNWAY SHALL BE 12" WIDE UNLESS OTHERWISE NOTED.
- PROVIDE JACKETED ARMORED FIBER OPTIC CABLES FOR ALL INDOOR/OUTDOOR FIBER OPTIC CABLES AS SPECIFIED.

DRAWING NOTES:

- EXISTING CONDUITS WITH UTILITY SERVICES TO REMAIN.
- CONDUIT SLEEVES. FIRE RATED WHERE REQUIRED.

EQUIPMENT SCHEDULE

- IDF/MDF RACKS PER SPECIFICATIONS AND SCHEDULES.
- UPS (NIC).
- SWITCHES & NETWORK EQUIPMENT (NIC).
- FIRE RATED BACKBOARD ON WALL AS SHOWN IN ROOMS.
- HORIZONTAL WIRE MANAGEMENT. PROVIDE AS REQUIRED FOR RACK.
- WALL MOUNTED STAND-OFF BRACKETS. PROVIDE AS REQUIRED.
- CABLE LADDER. PROVIDE AS REQUIRED FOR IDF/MDF ROOM.
- GROUND BUS. REFER TO SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
- GROUND CABLES. REFER TO SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
- FIBER OPTIC ENCLOSURES WITH FIBER OPTIC ADAPTERS AS REQUIRED.
- 12 STRAND SINGLE MODE FIBER OPTIC CABLE BETWEEN MDF RACK AND EACH IDF RACK VIA 4" CONDUIT.
- CATEGORY 6A UTP RACK MOUNTED PATCH PANELS. PROVIDE PORT QUANTITY REQUIRED + 20% SPARE.
- CATEGORY 6A UTP CABLES TO EACH VOICE/DATA, WIRELESS ACCESS POINT, AND CCTV CAMERA JACK. (SEE FLOOR PLANS) EACH SYSTEM TYPE SHALL HAVE A UNIQUE JACKET COVER FOR THE SYSTEM TO IDENTIFY THE CABLE PURPOSE.
- BUILDING ENTRANCE TERMINALS / LIGHTNING PROTECTION FOR ALL COPPER PAIRS ENTERING THE BUILDING.
- TELEPHONE CONNECTING BLOCKS AND CABLE MANAGEMENT AS REQUIRED TO TERMINATE ALL CABLES.
- RE-ROUTED MULTI-STRAND FIBER SERVICE ENTRANCE CABLE.
- CATV COAXIAL SERVICE ENTRANCE CABLE.
- CABLE DISTRIBUTION AMP, SPLITTERS AND MULTI-TAPS. PROVIDE TAPS FOR F-CONNECTOR TELEVISION JACKS + 20% SPARE.
- RG11 COAXIAL CABLE TO EACH F-CONNECTOR TELEVISION OUTLET. ALL F-CONNECTORS SHALL BE HOMERUN TO MDF.
- TELEPHONE SERVICE ENTRANCE MULTIPAIR COPPER CABLE.
- RG11 COAXIAL CABLE BETWEEN MDF AND MECH ROOM B130.
- TWO 25-PAIR CAT 5E TELEPHONE BACKBONE BETWEEN MECH ROOM B130 AND MDF ROOM A117. PROVIDE S86 BLOCKS IN EACH ROOM.



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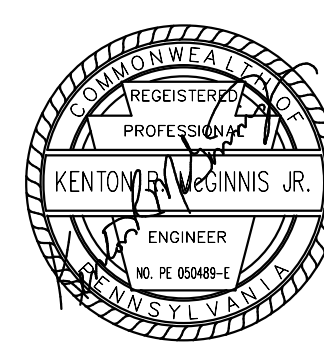
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TELECOM RISER

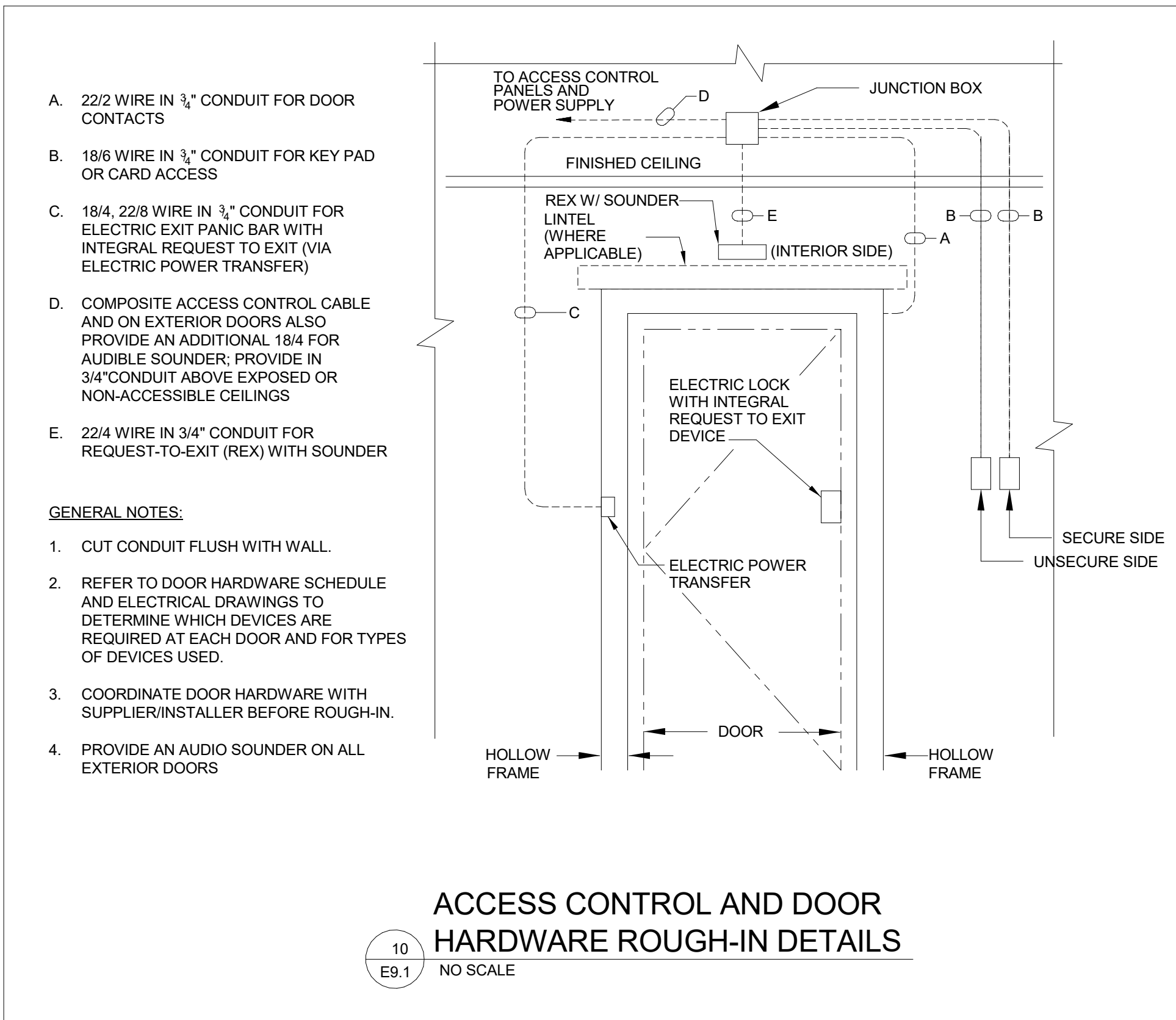
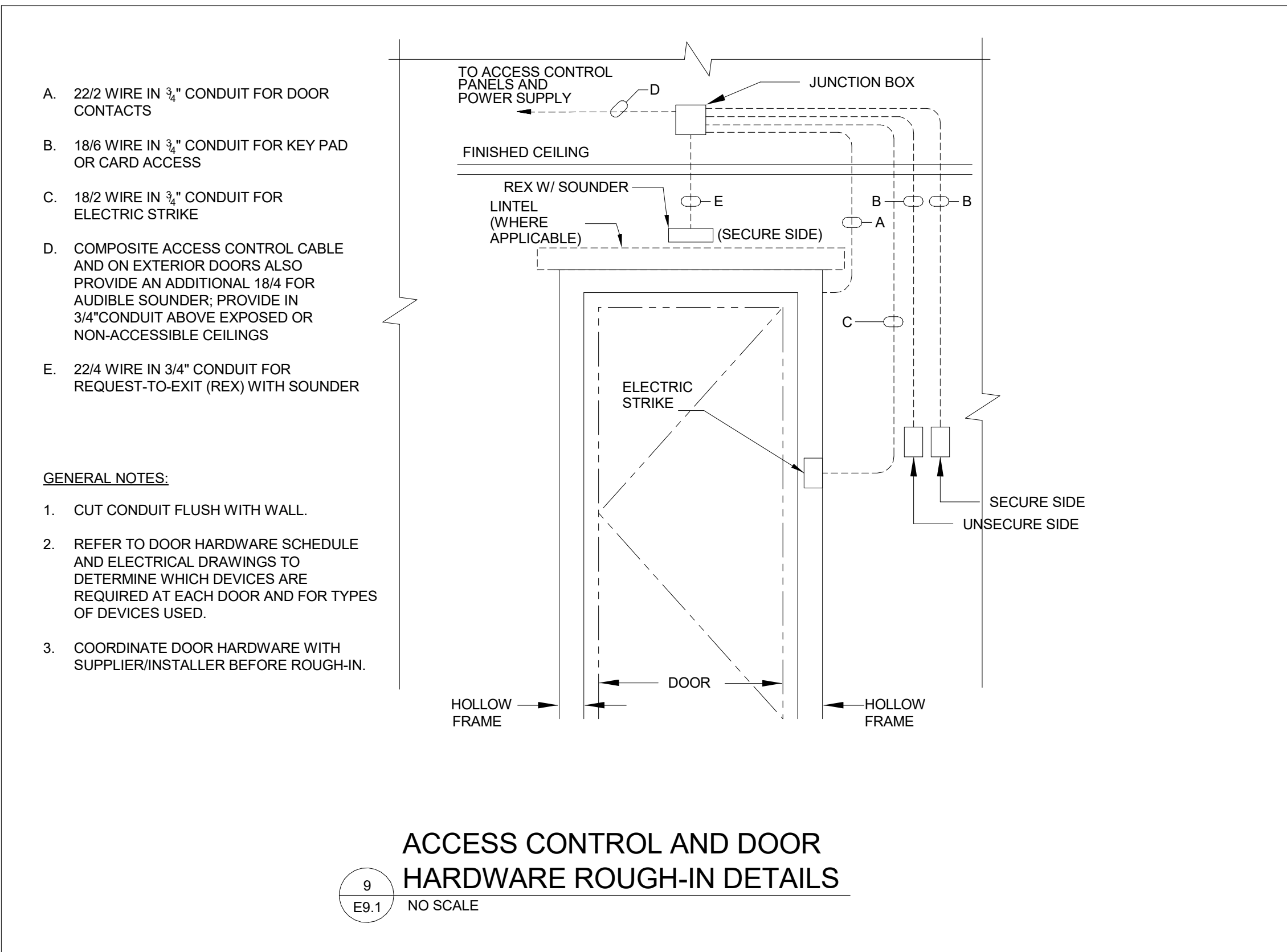
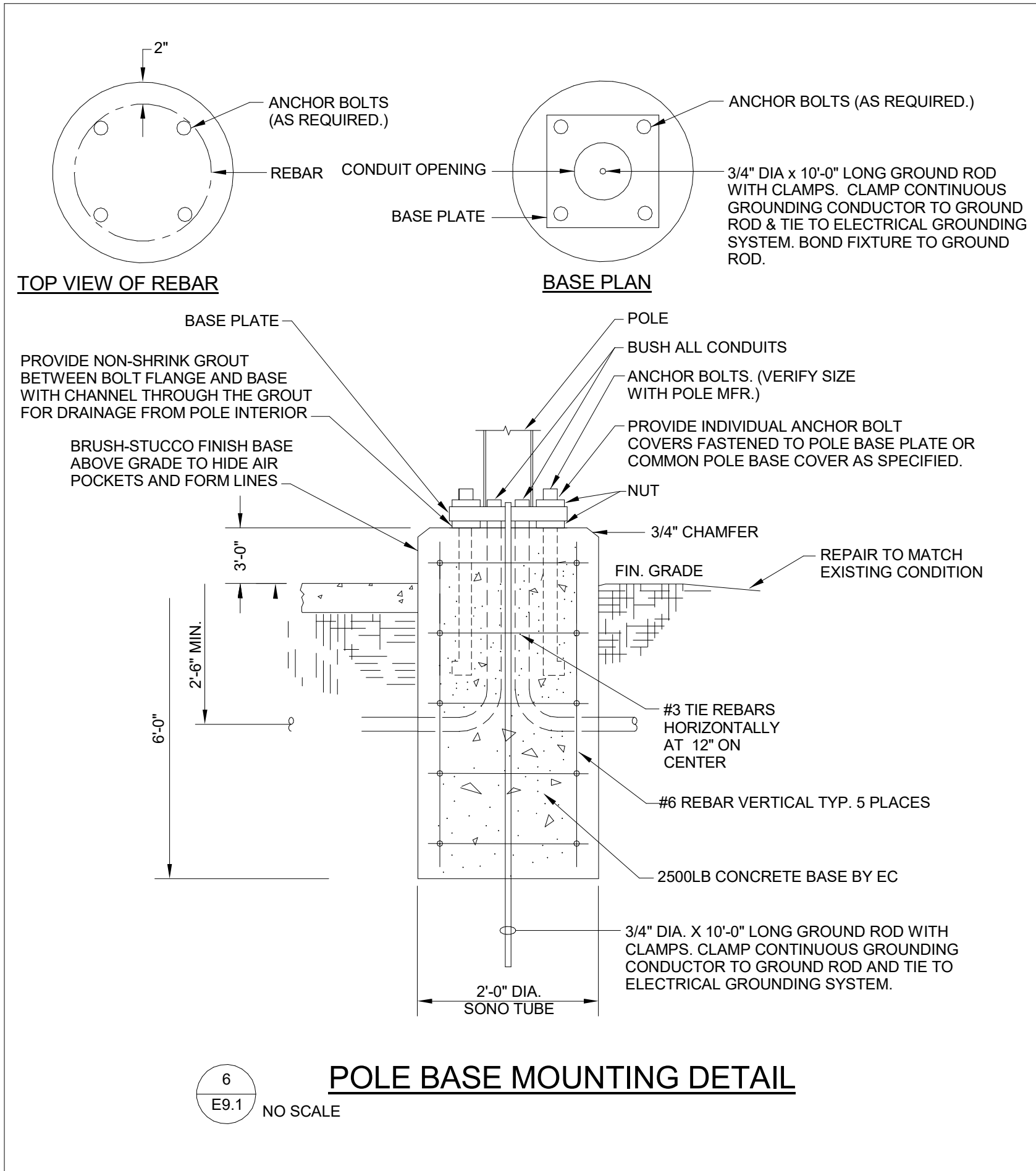
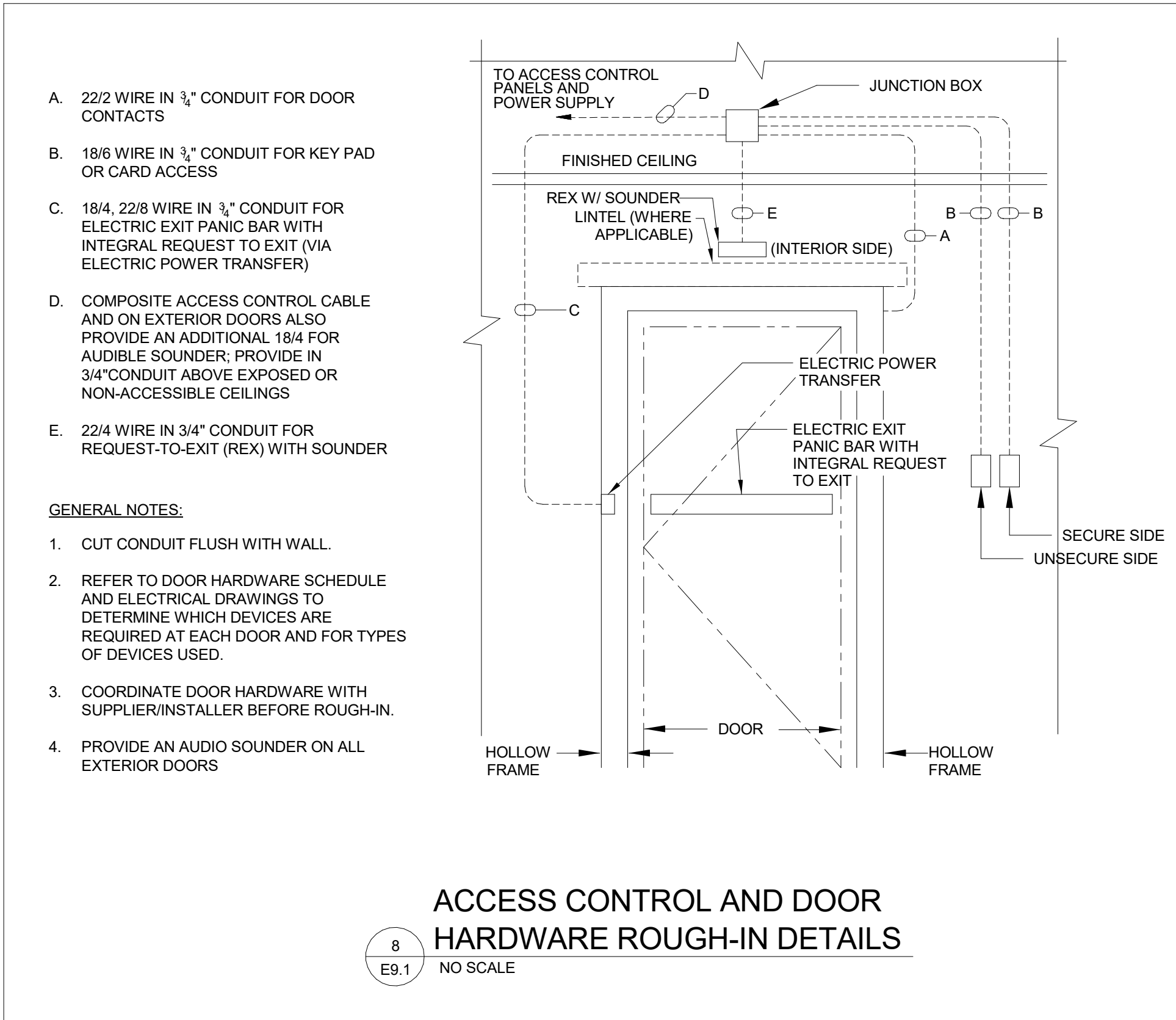
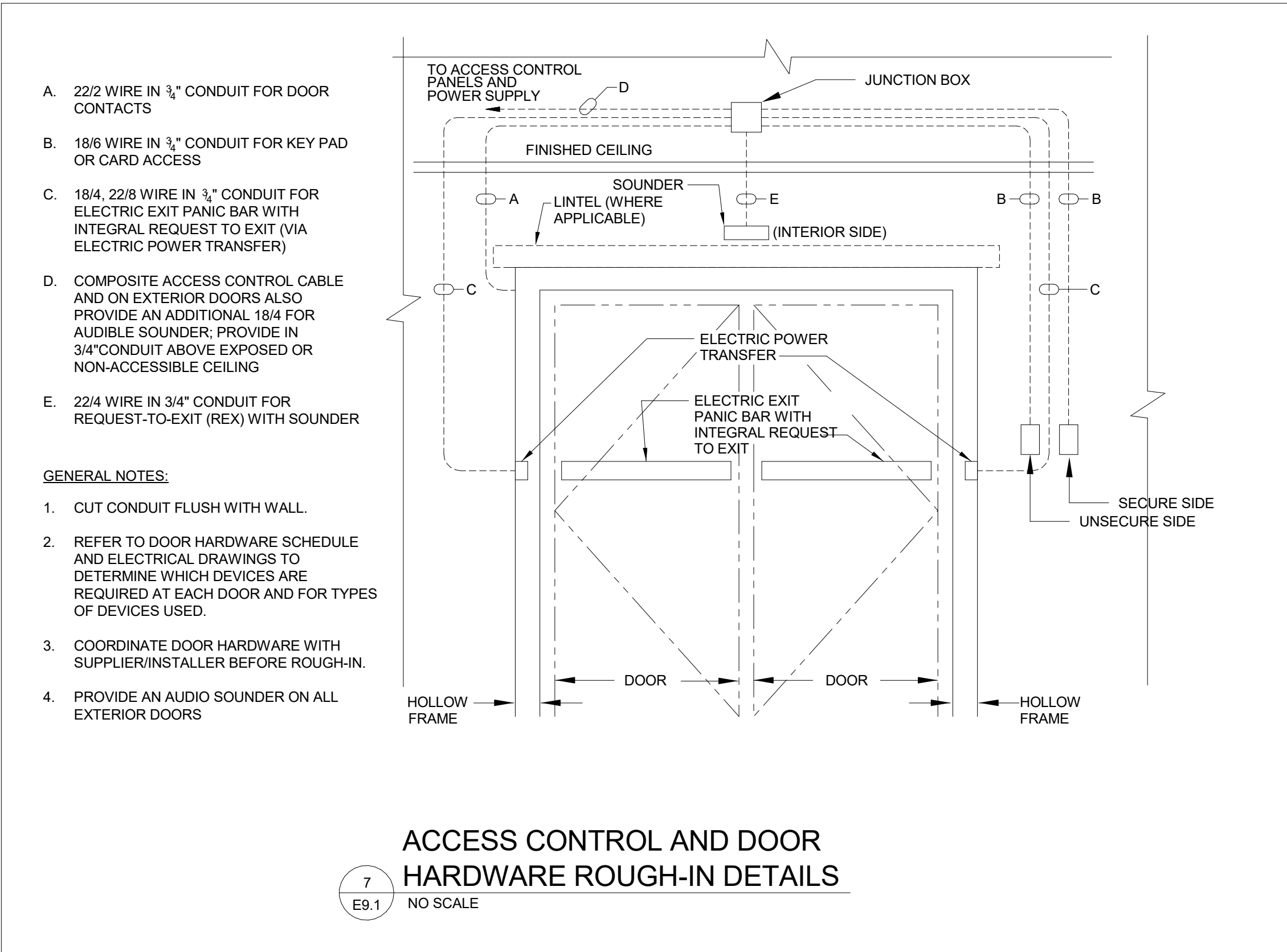
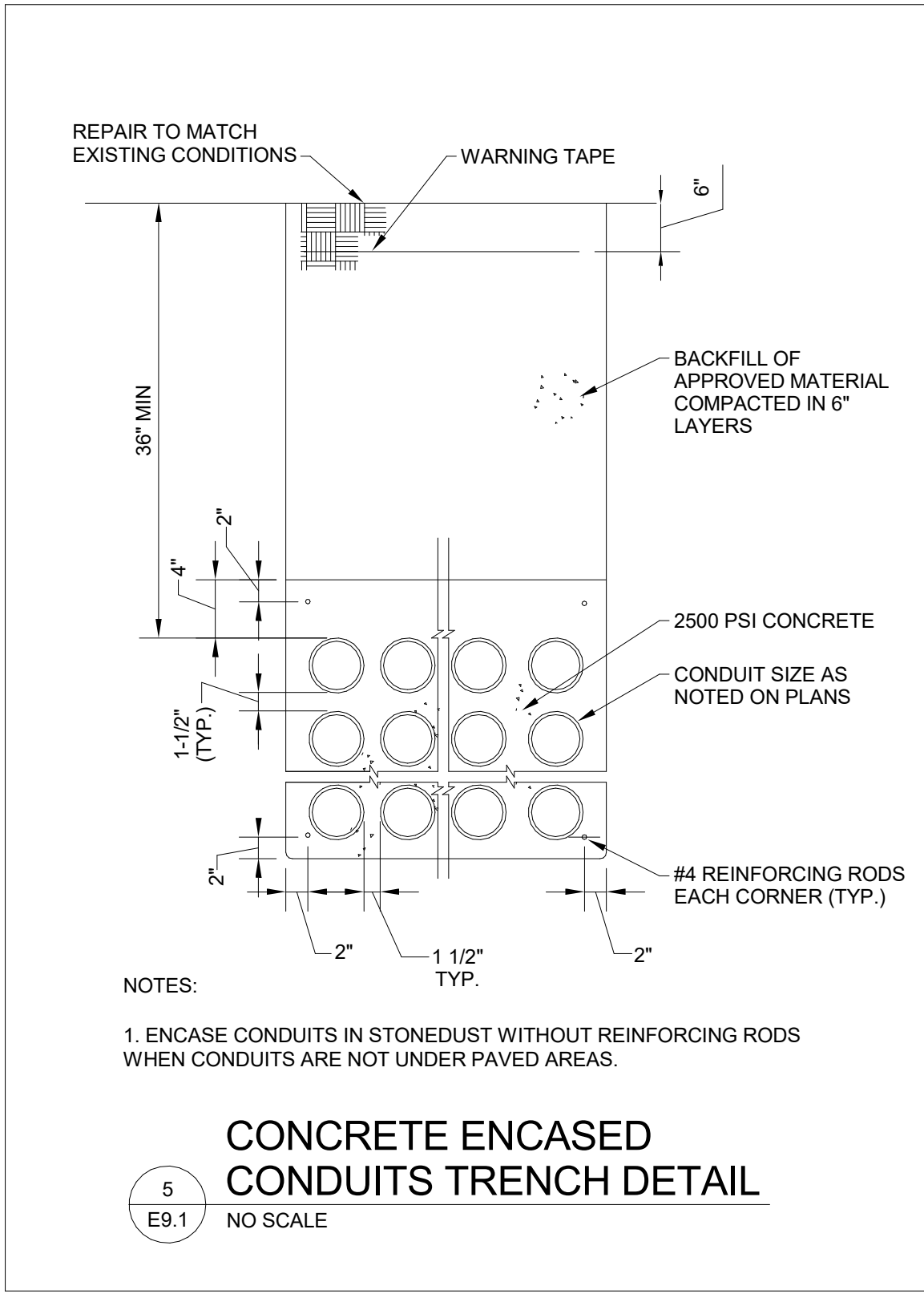
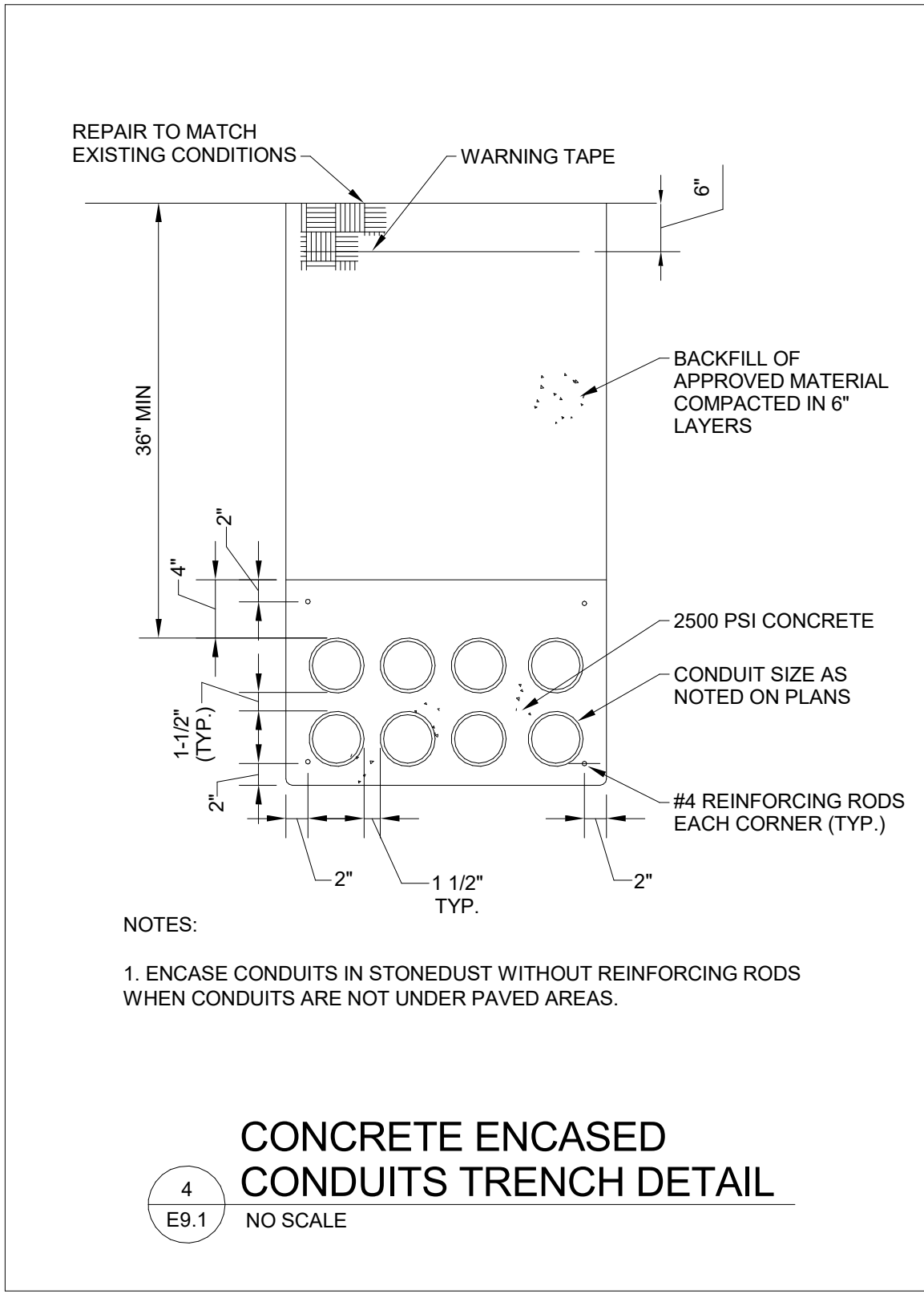
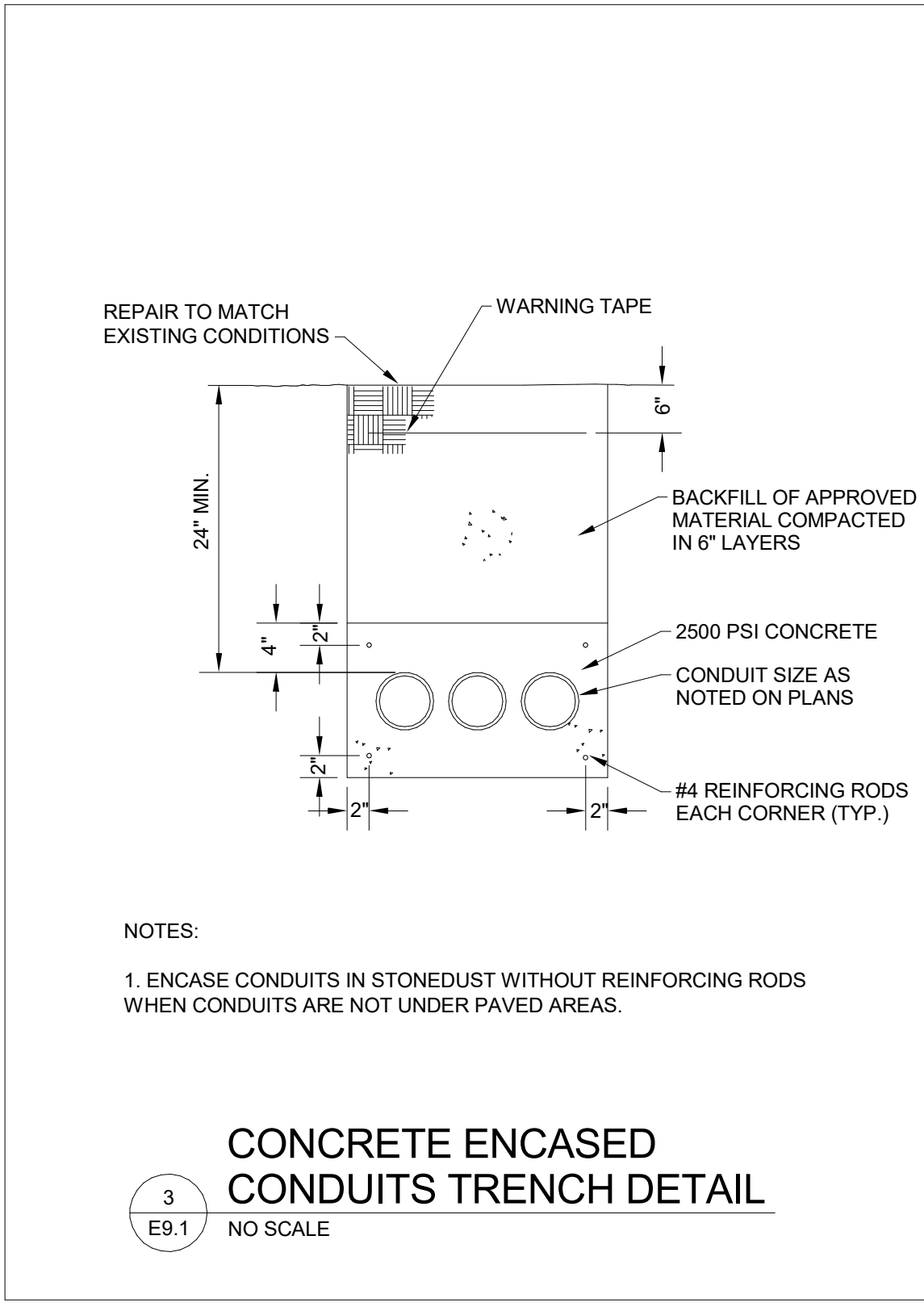
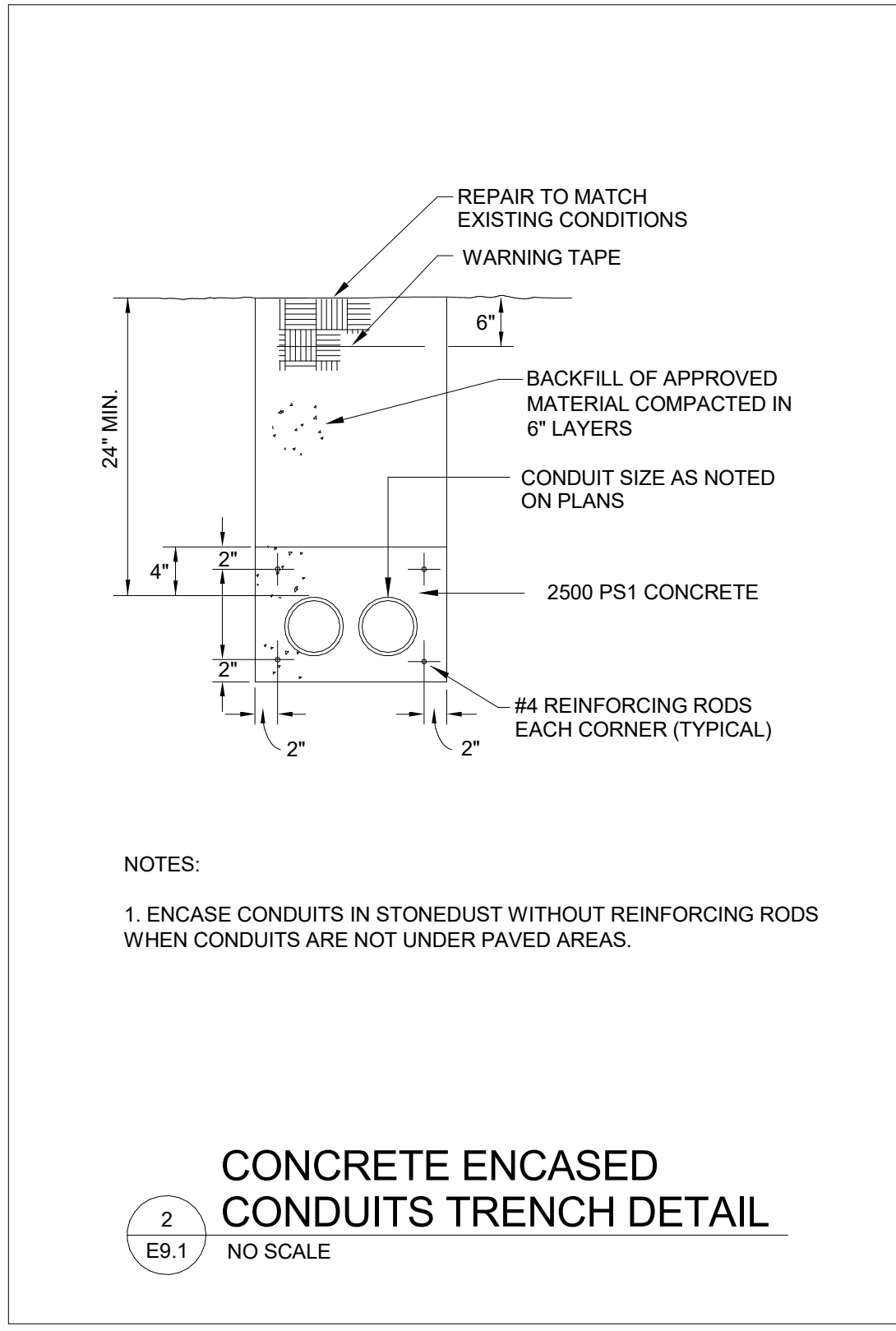
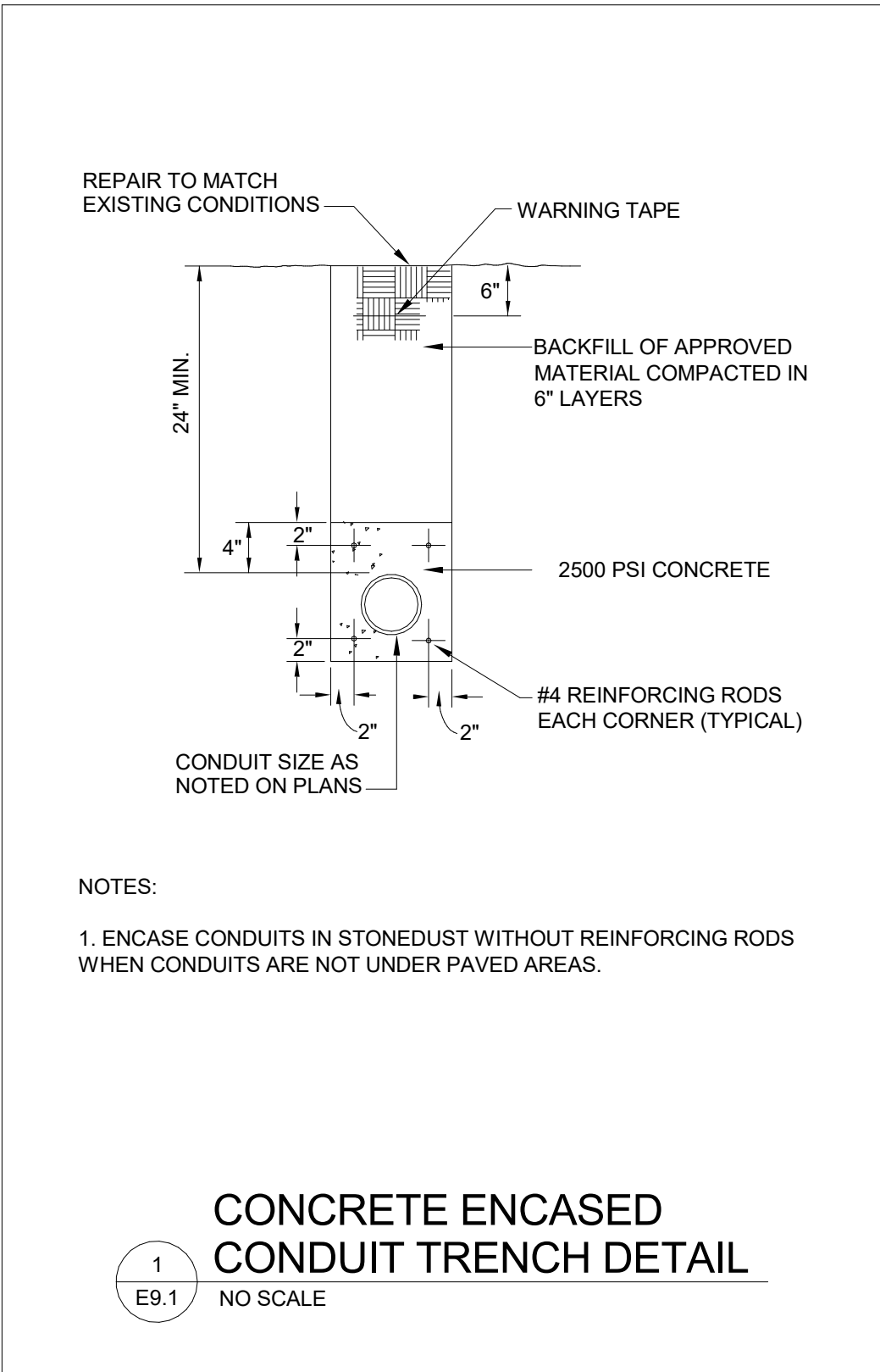
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ELECTRICAL DETAILS

PLOT SCALE:

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E9.1

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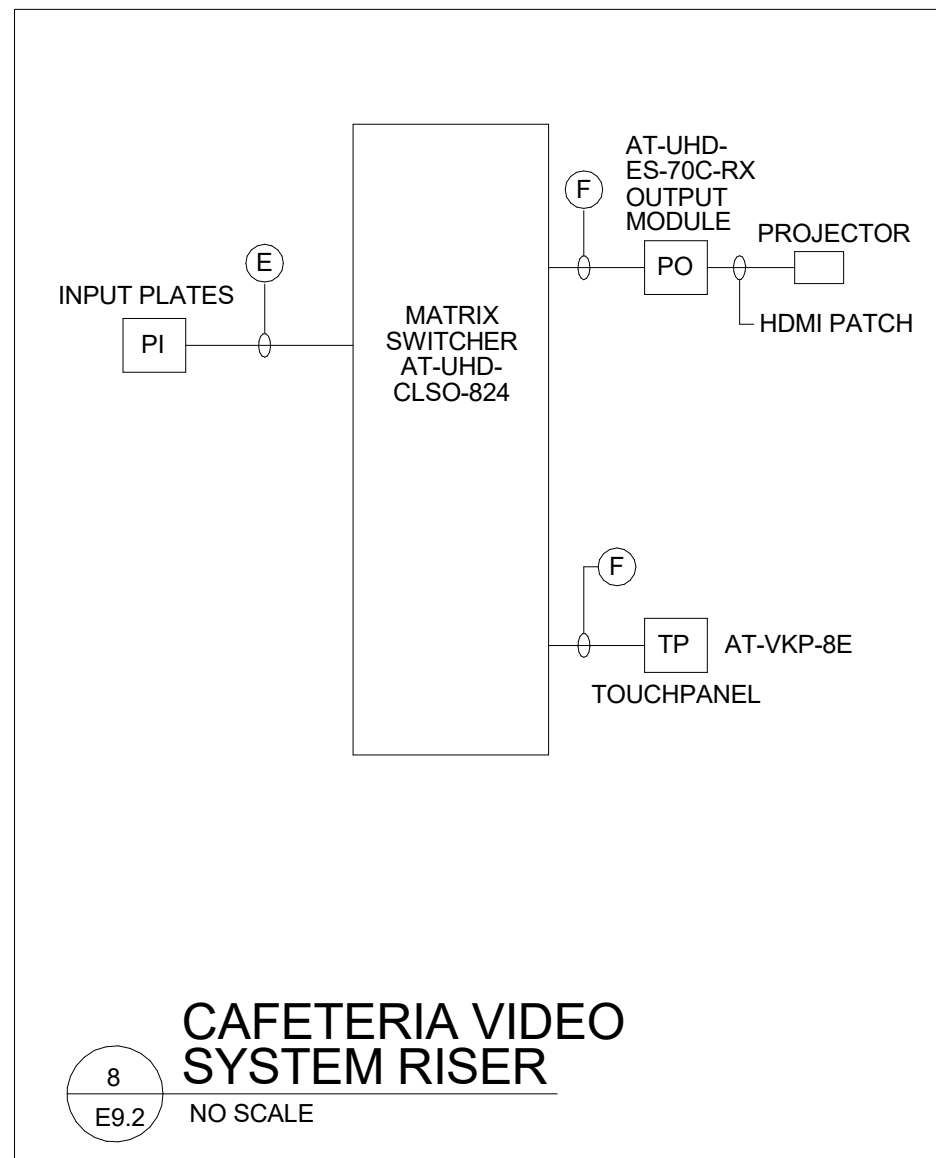
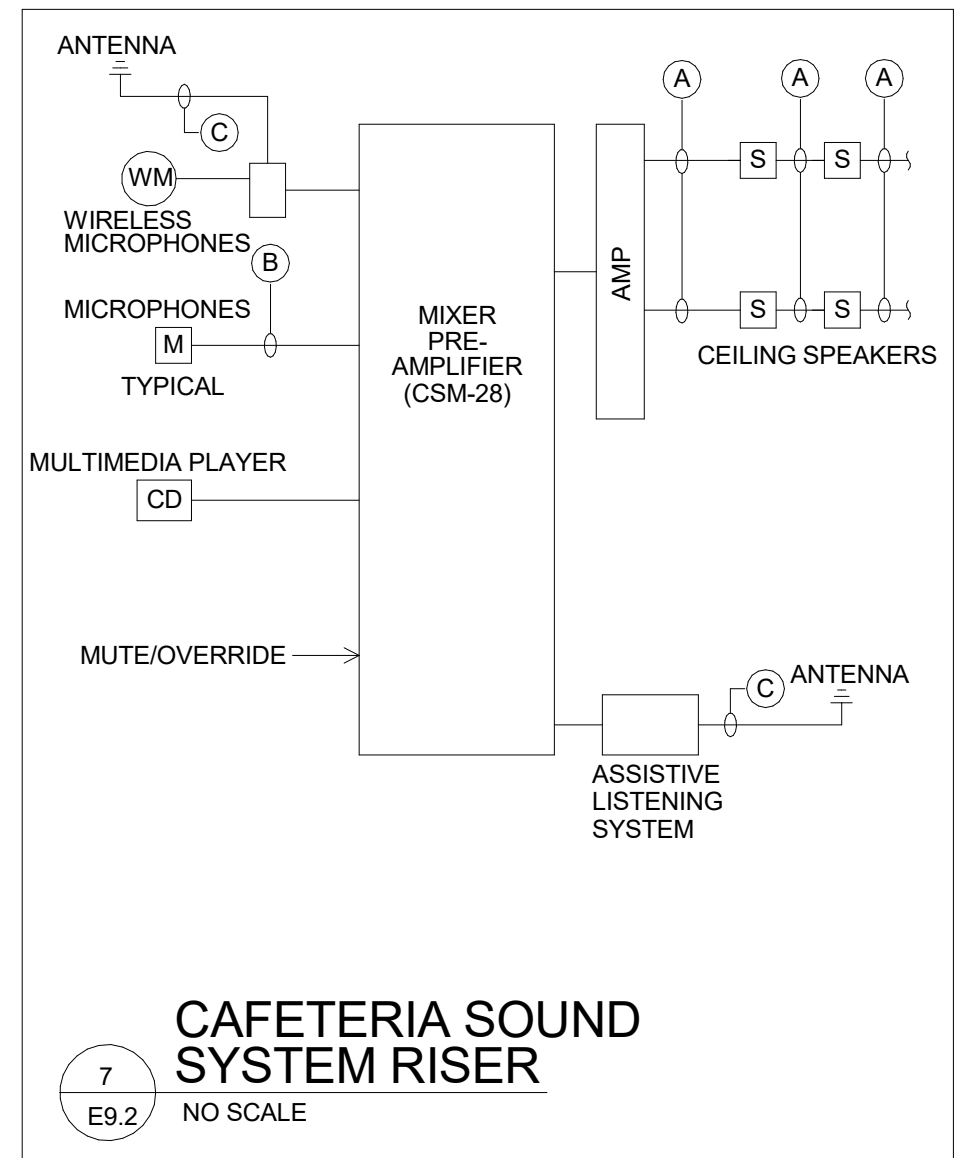
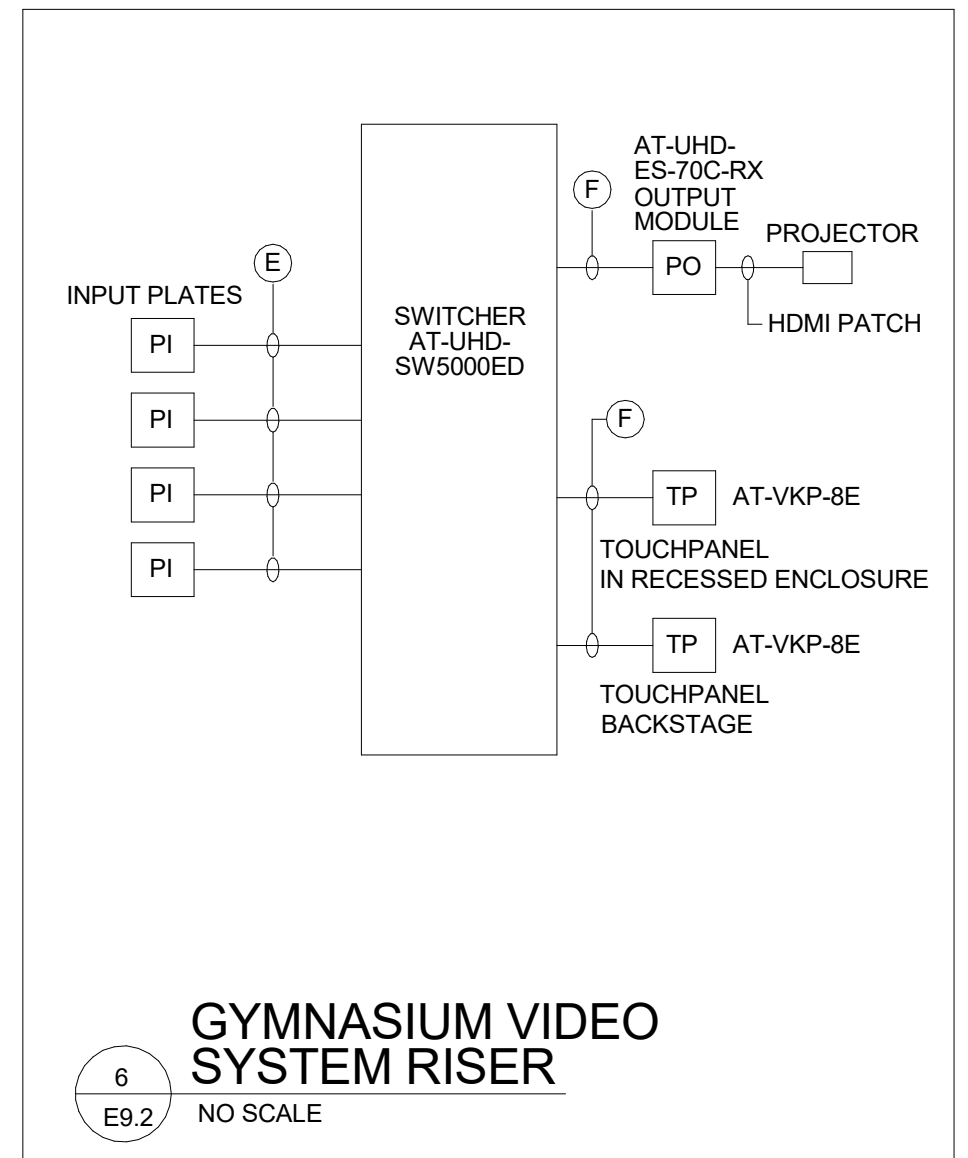
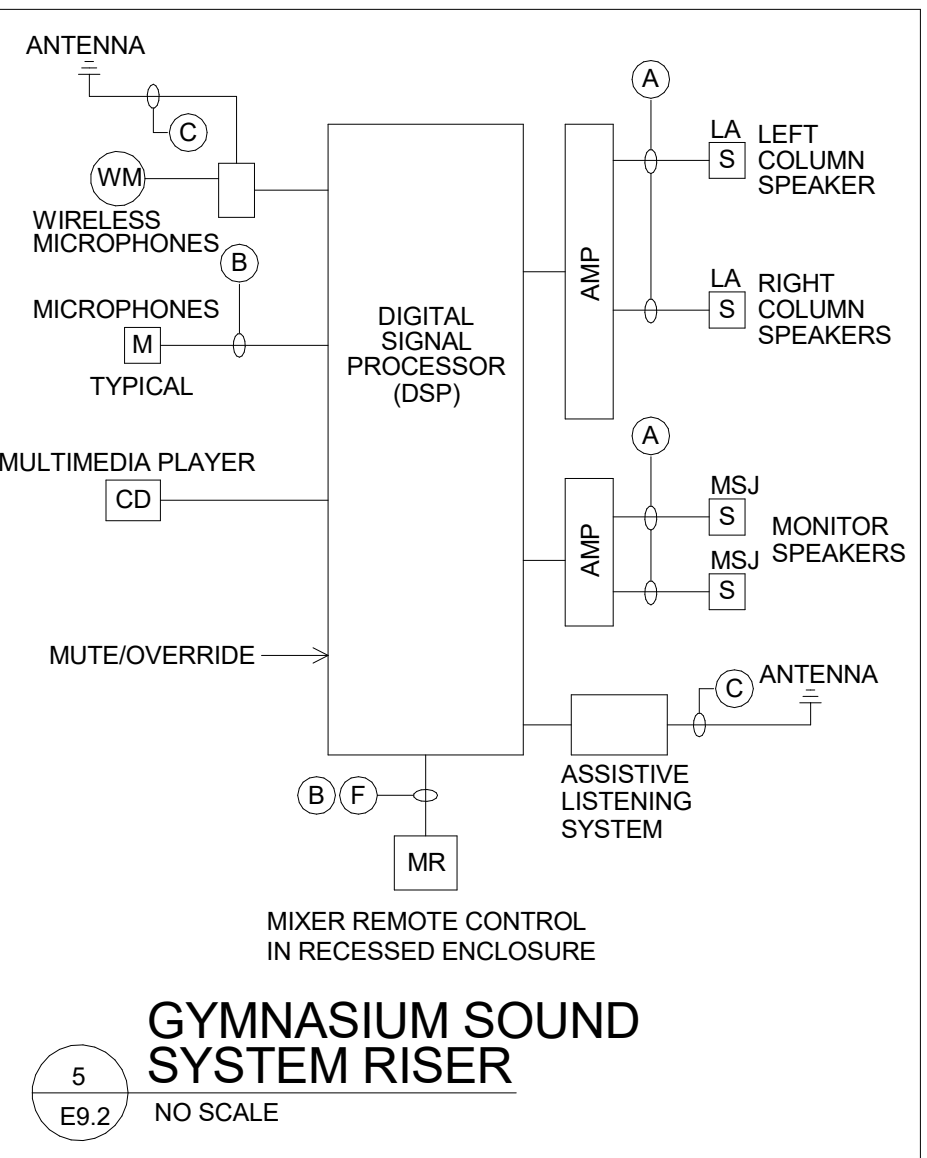
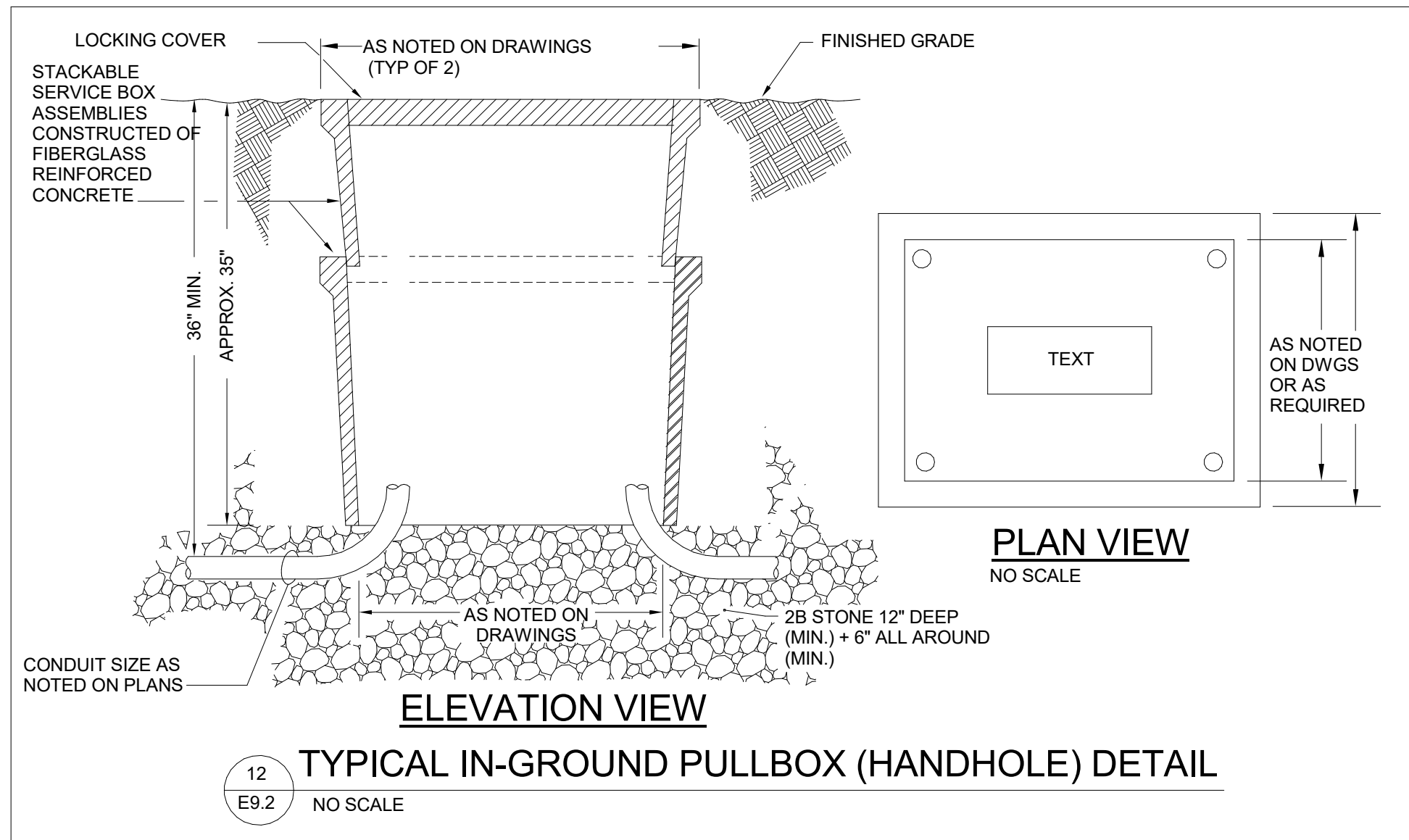
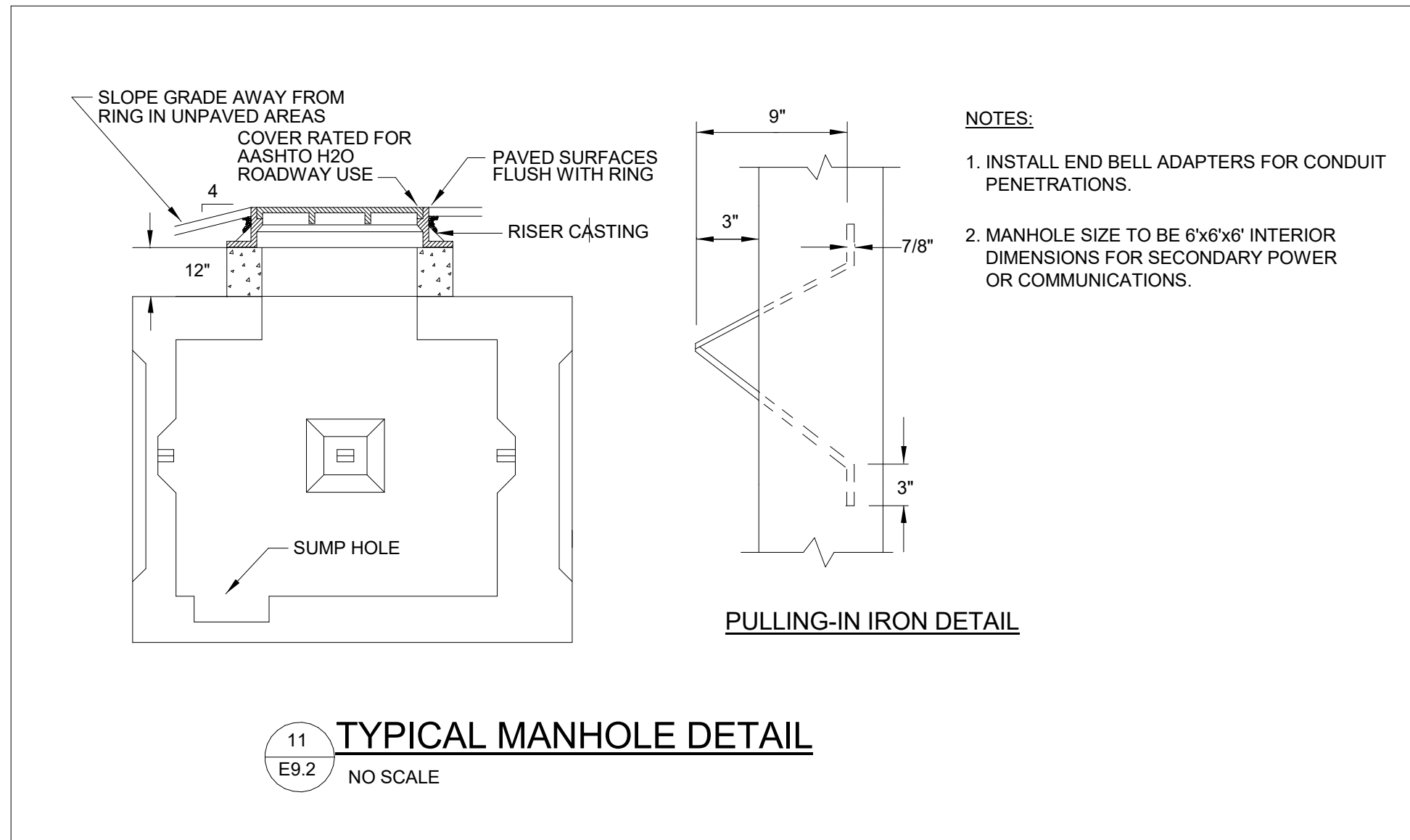
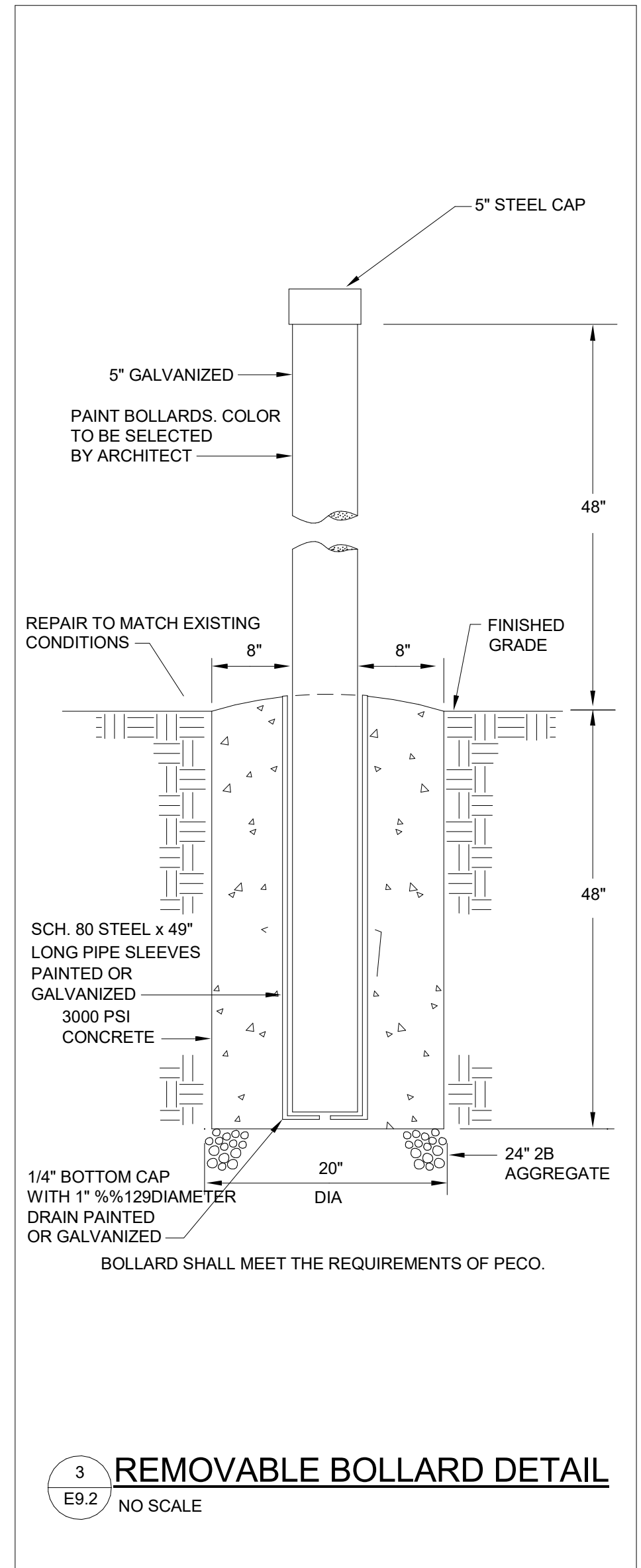
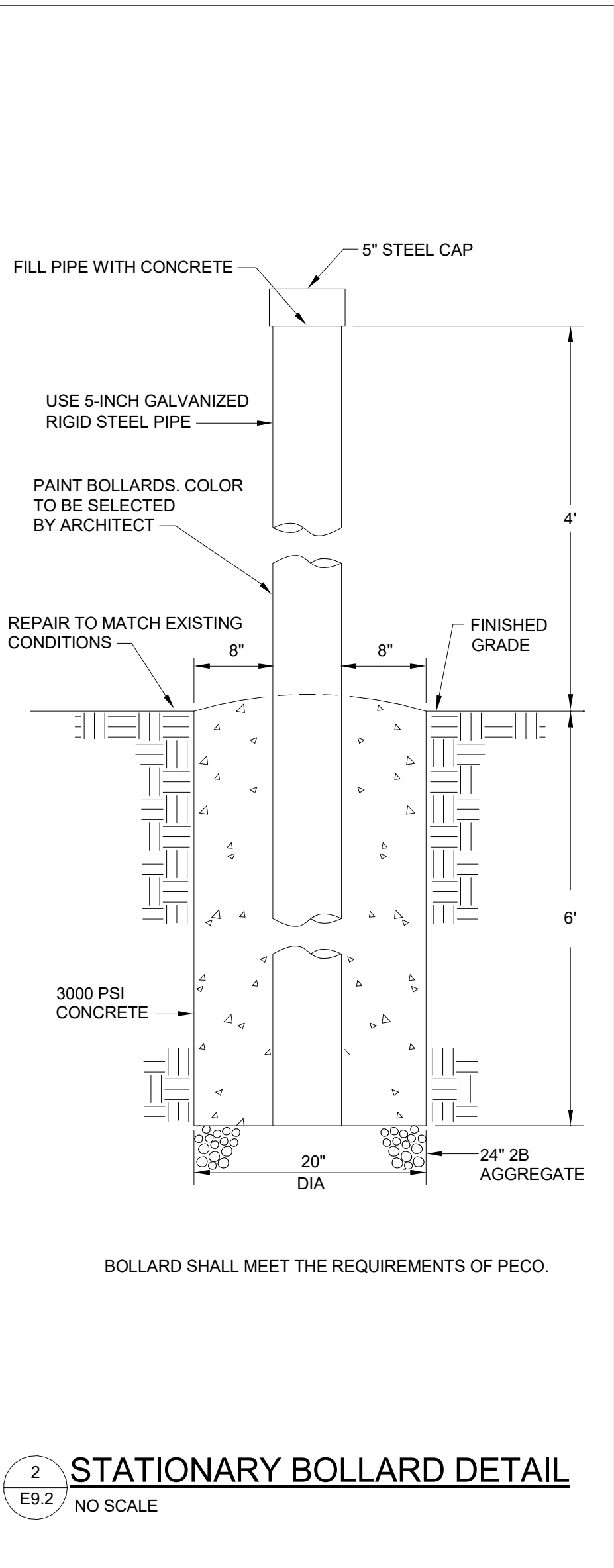
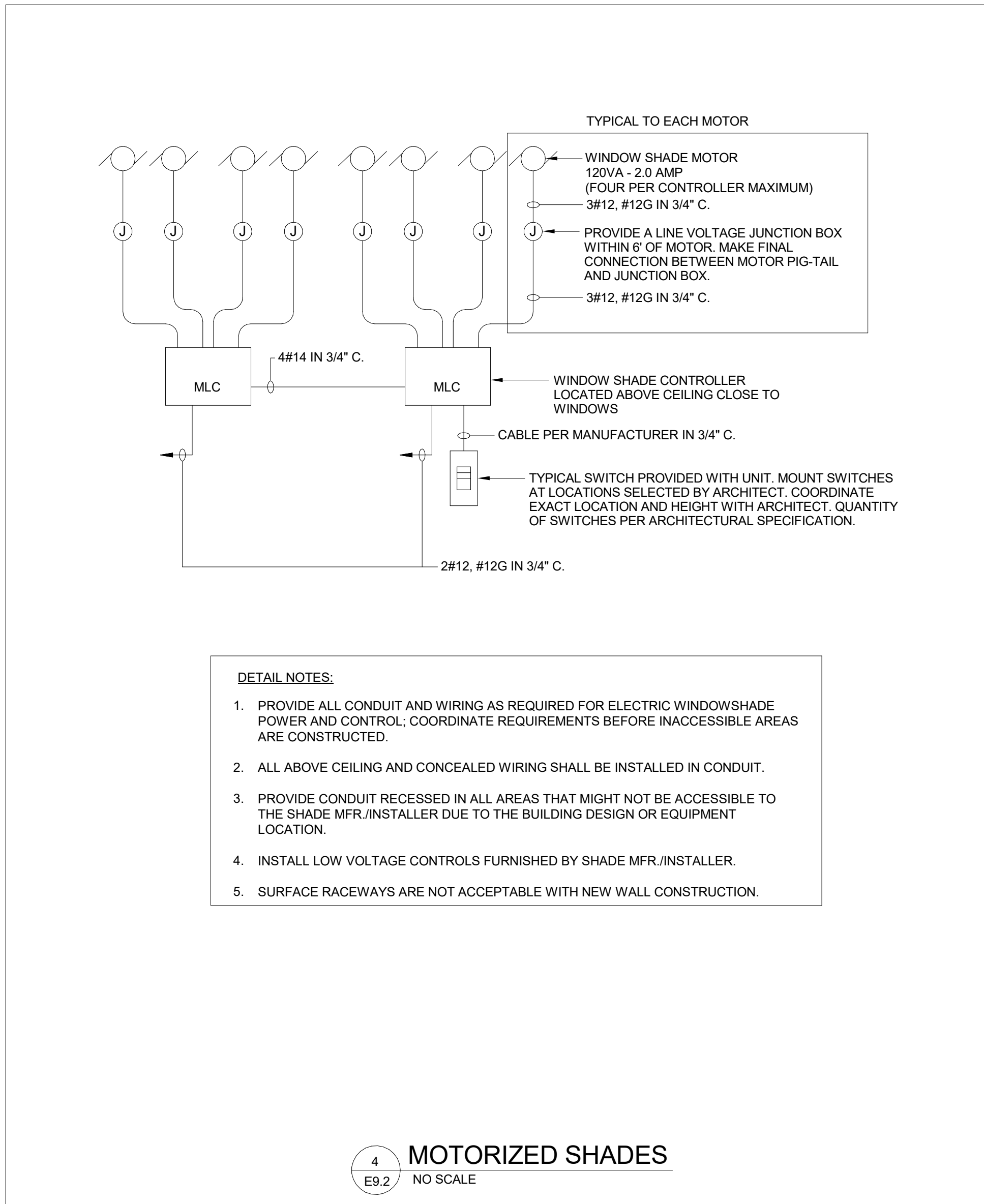
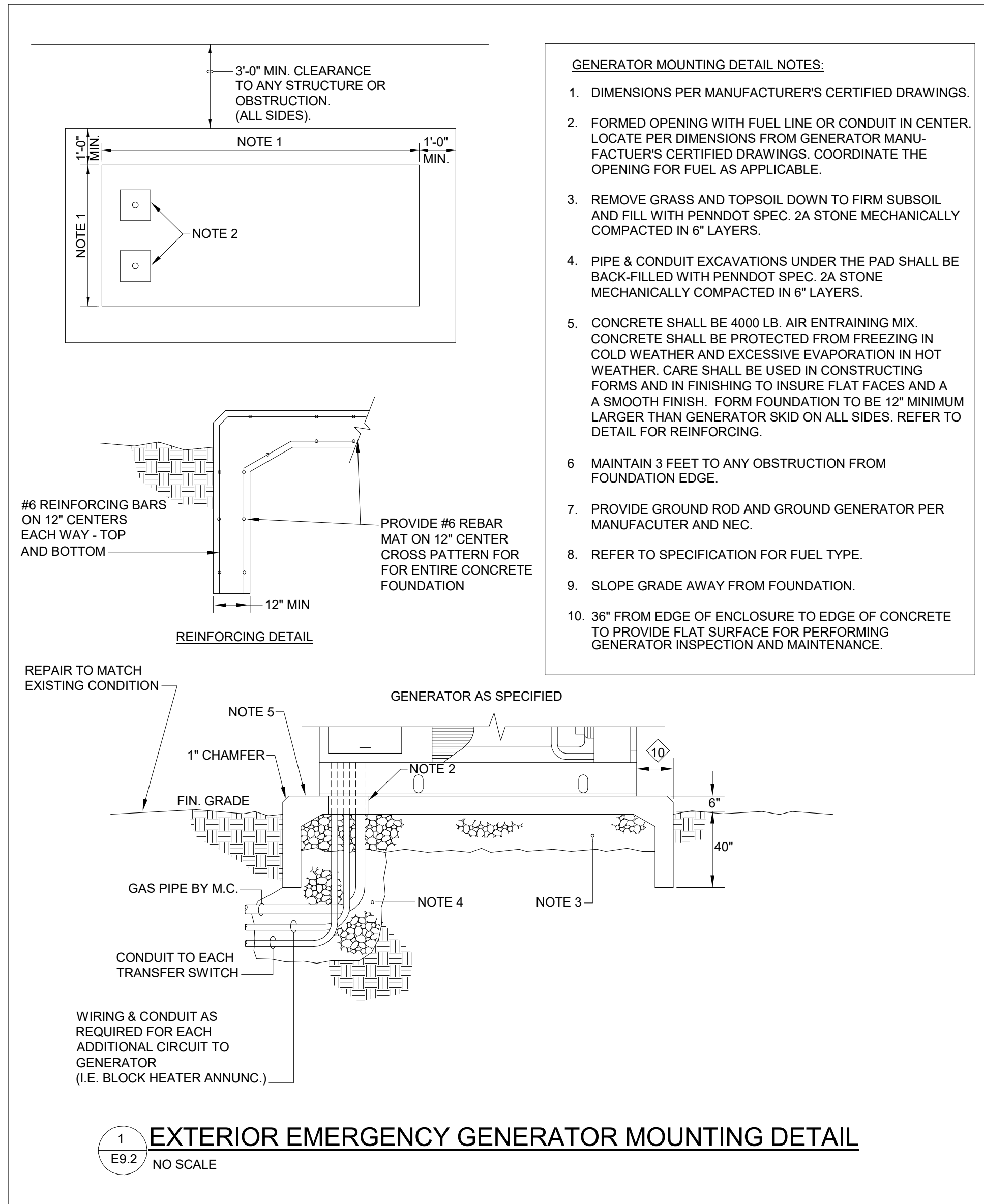
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WIRE SCHEDULE			
CABLE TYPE	MANUFACTURER	MODEL NUMBER (PLENUM)	DESCRIPTION
(A)	WEST PENN	25227B	SPEAKER CABLE
(B)	WEST PENN	25293B	MICROPHONE CABLE
(C)	WEST PENN	25815	RG-59/U COAXIAL
(D)	WEST PENN	25225B	SPEAKER CABLE
(E)	WEST PENN	25424B	CATEGORY 6 CABLE
(F)	WEST PENN	254236F	SHIELDED CATEGORY 6A CABLE

GENERAL NOTES:

- PROVIDE ADDITIONAL CABLING AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A MINIMUM 3/4" CONDUIT FOR ALL WIRES IN THE SYSTEMS.

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E9.2

ELECTRICAL DETAILS

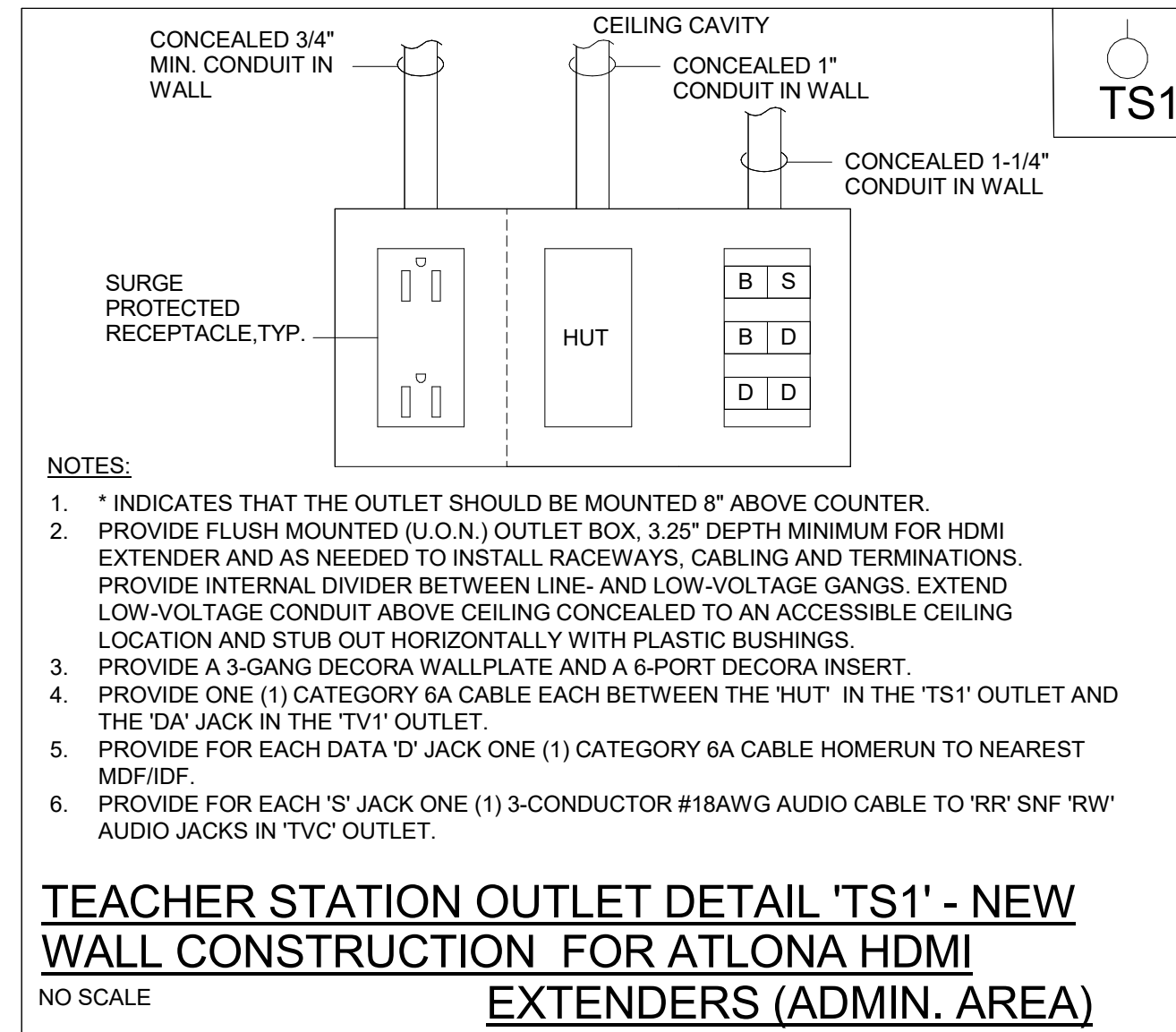
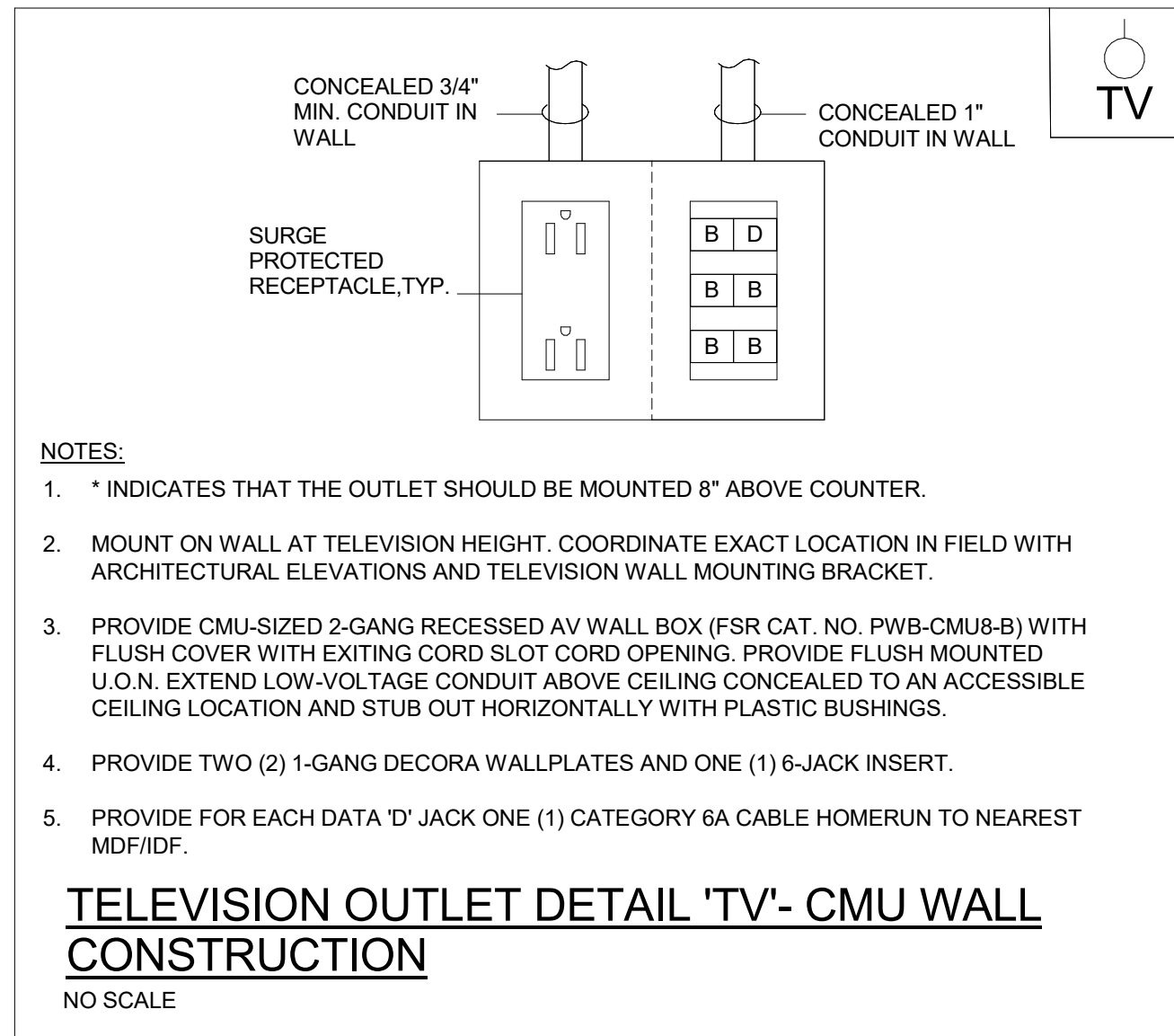
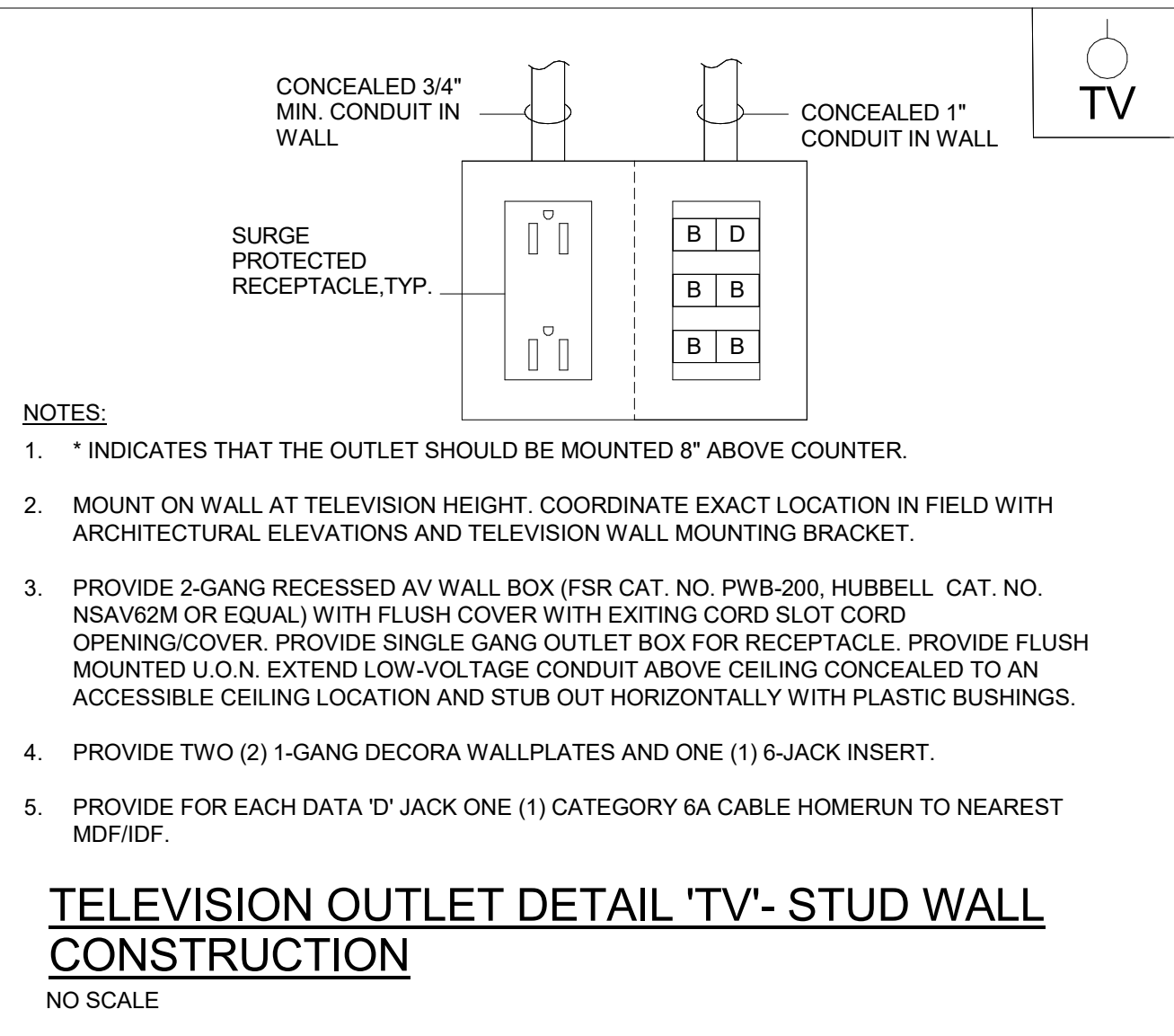
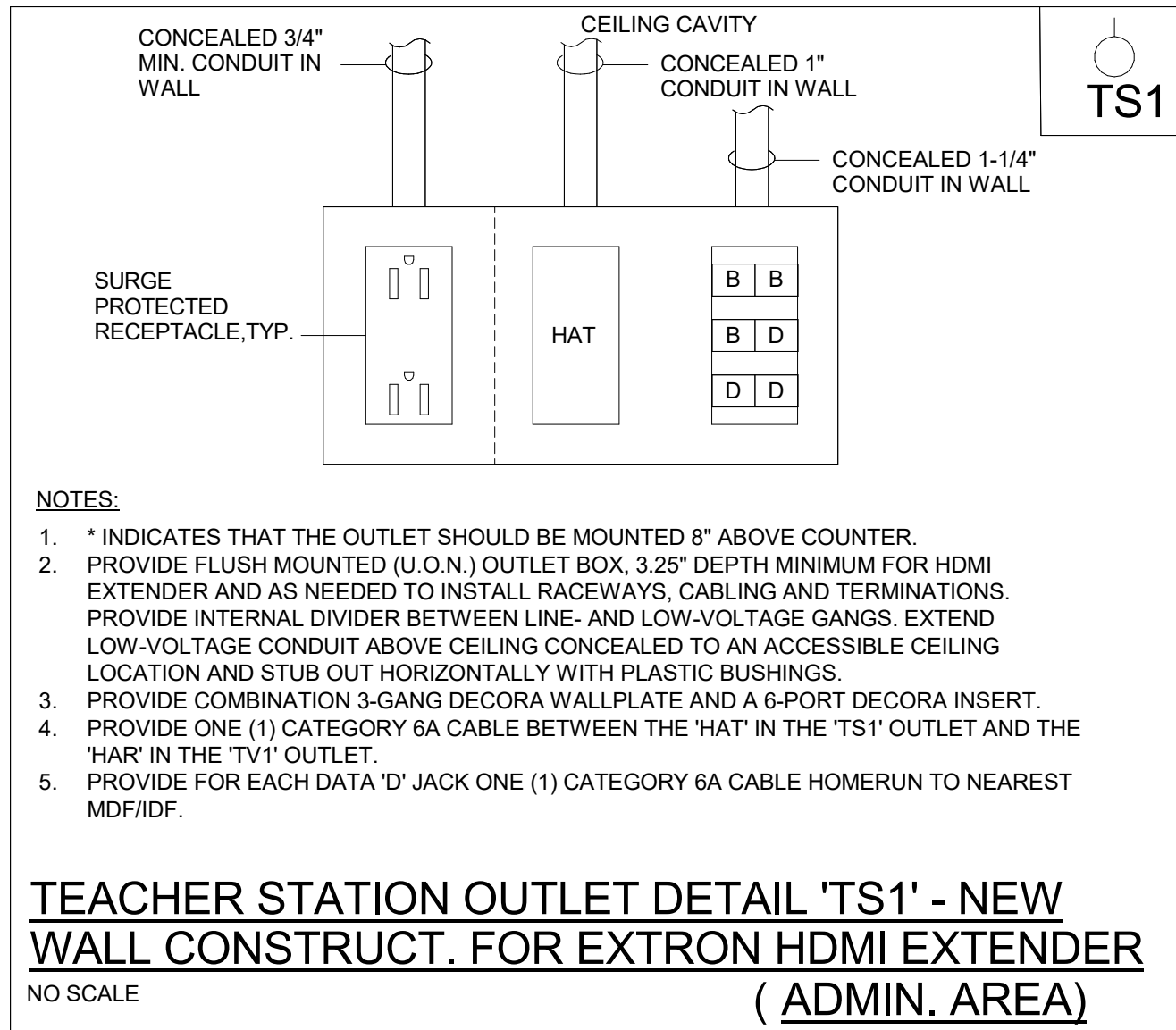
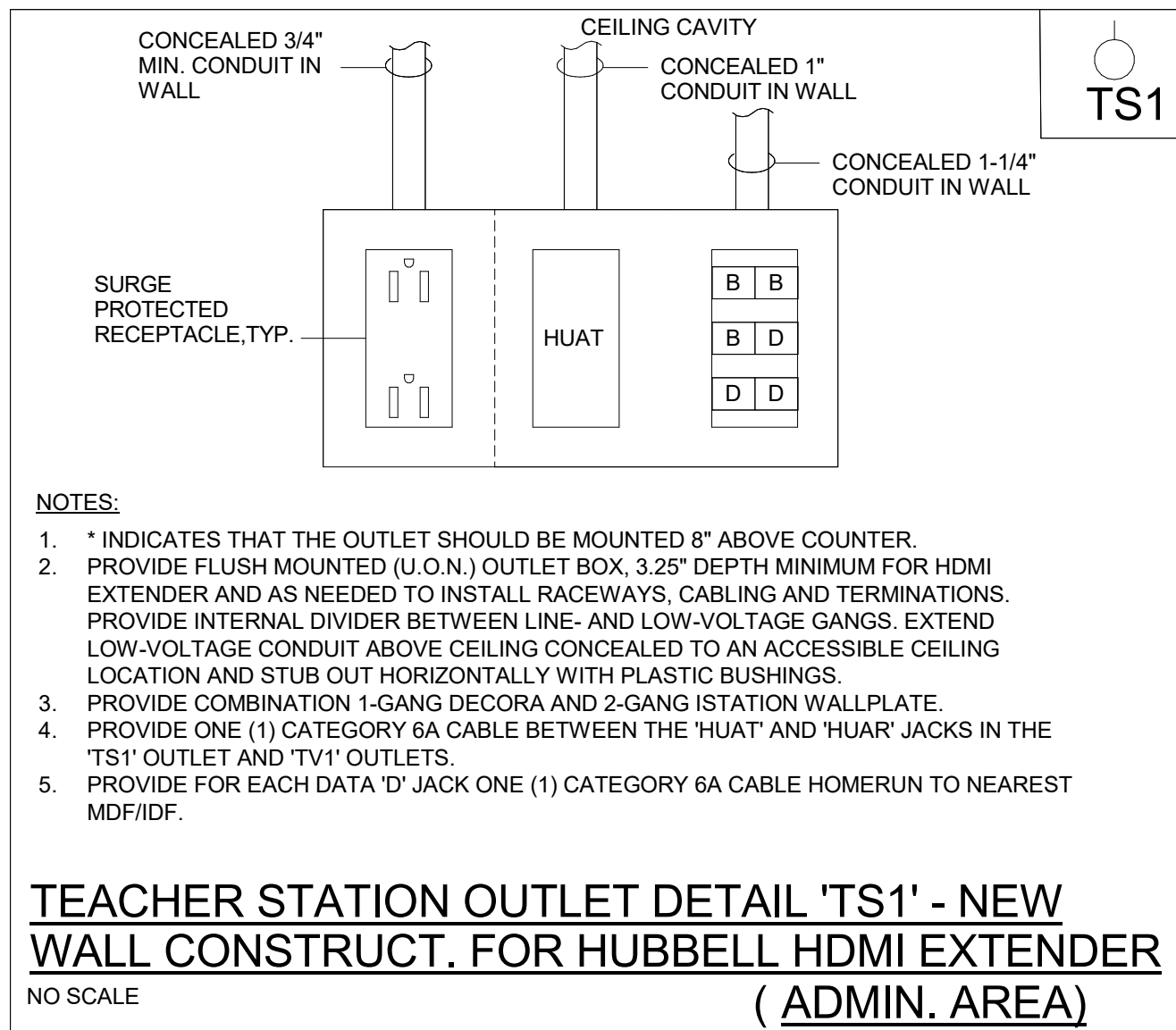
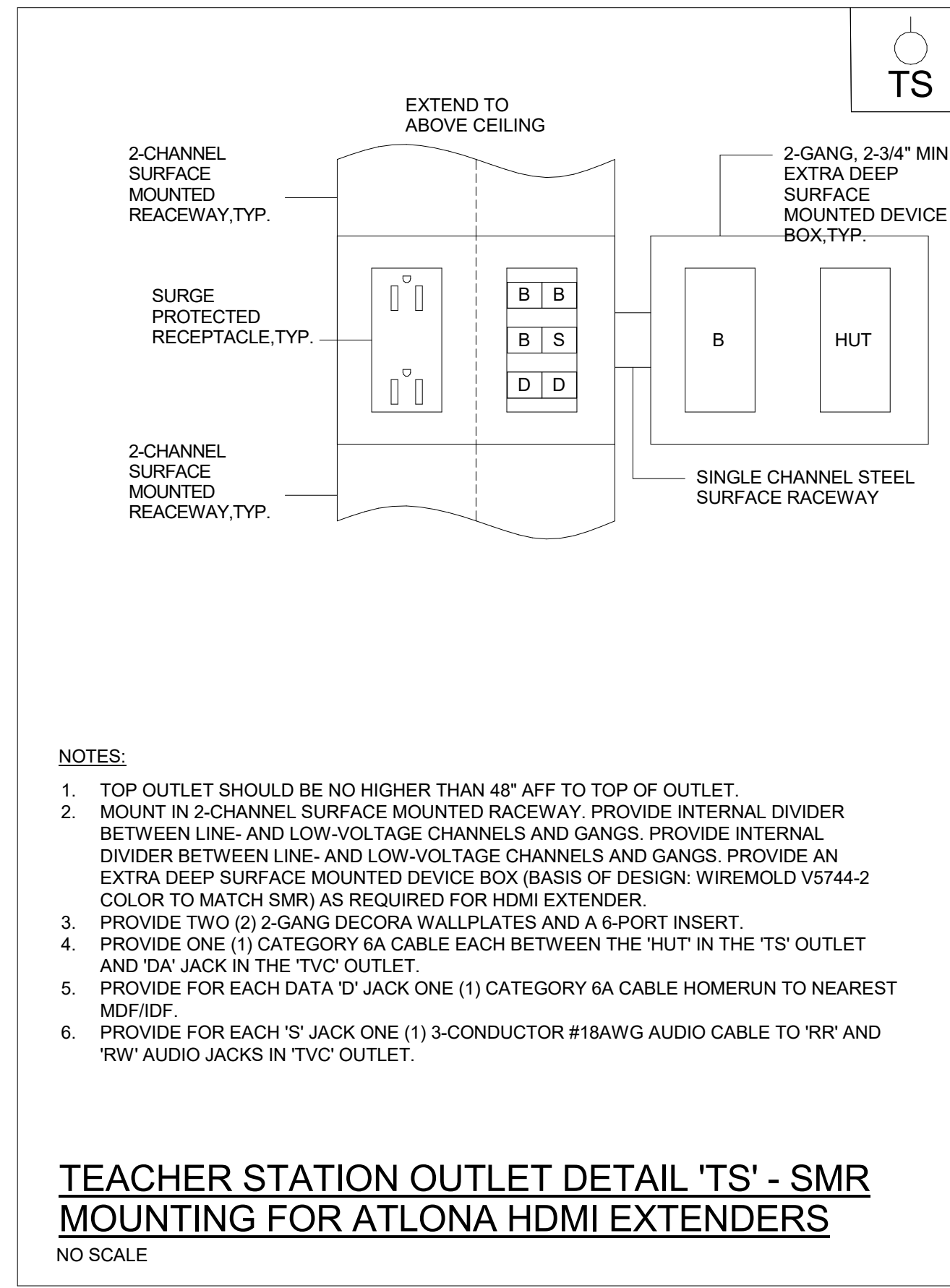
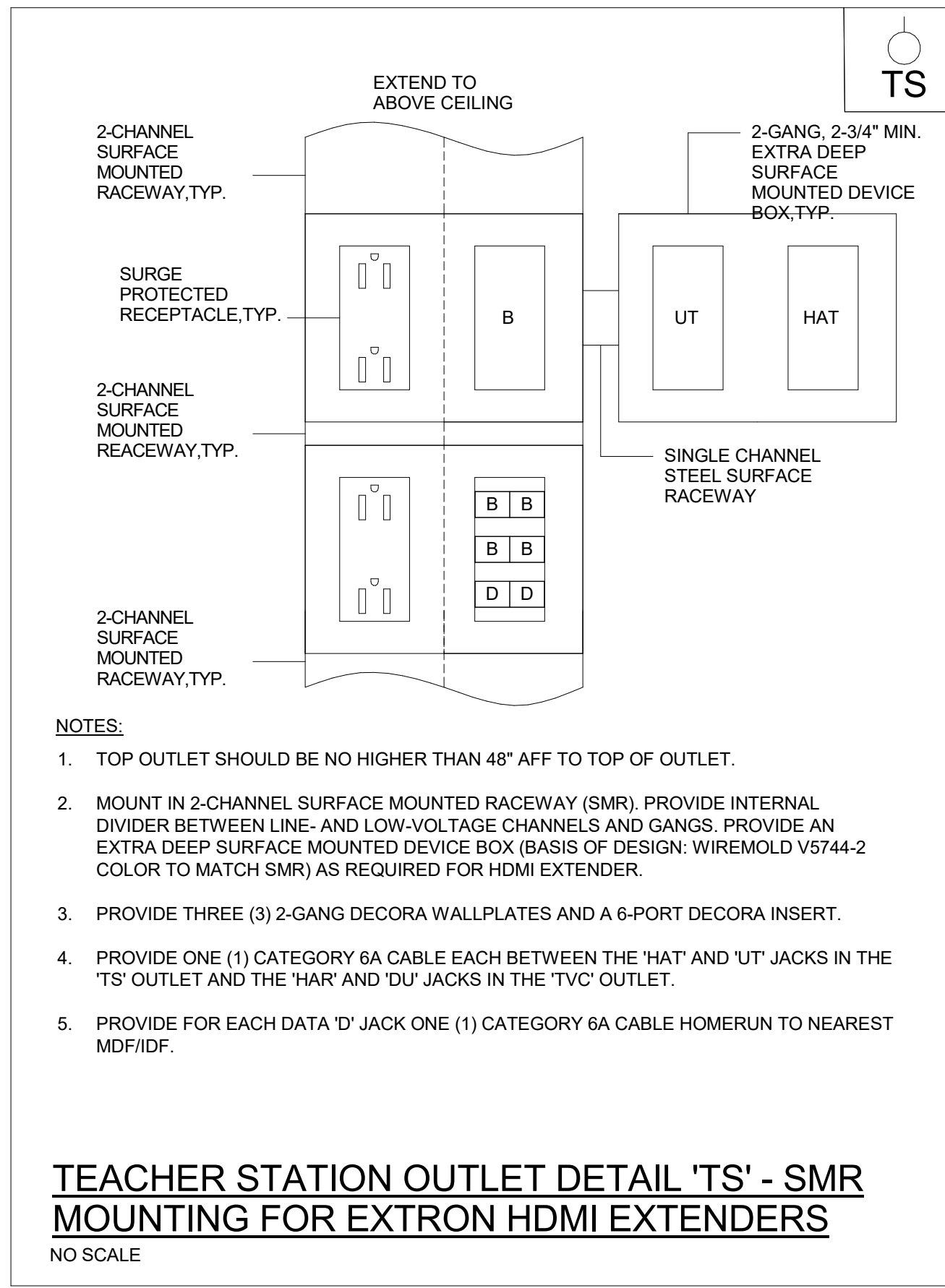
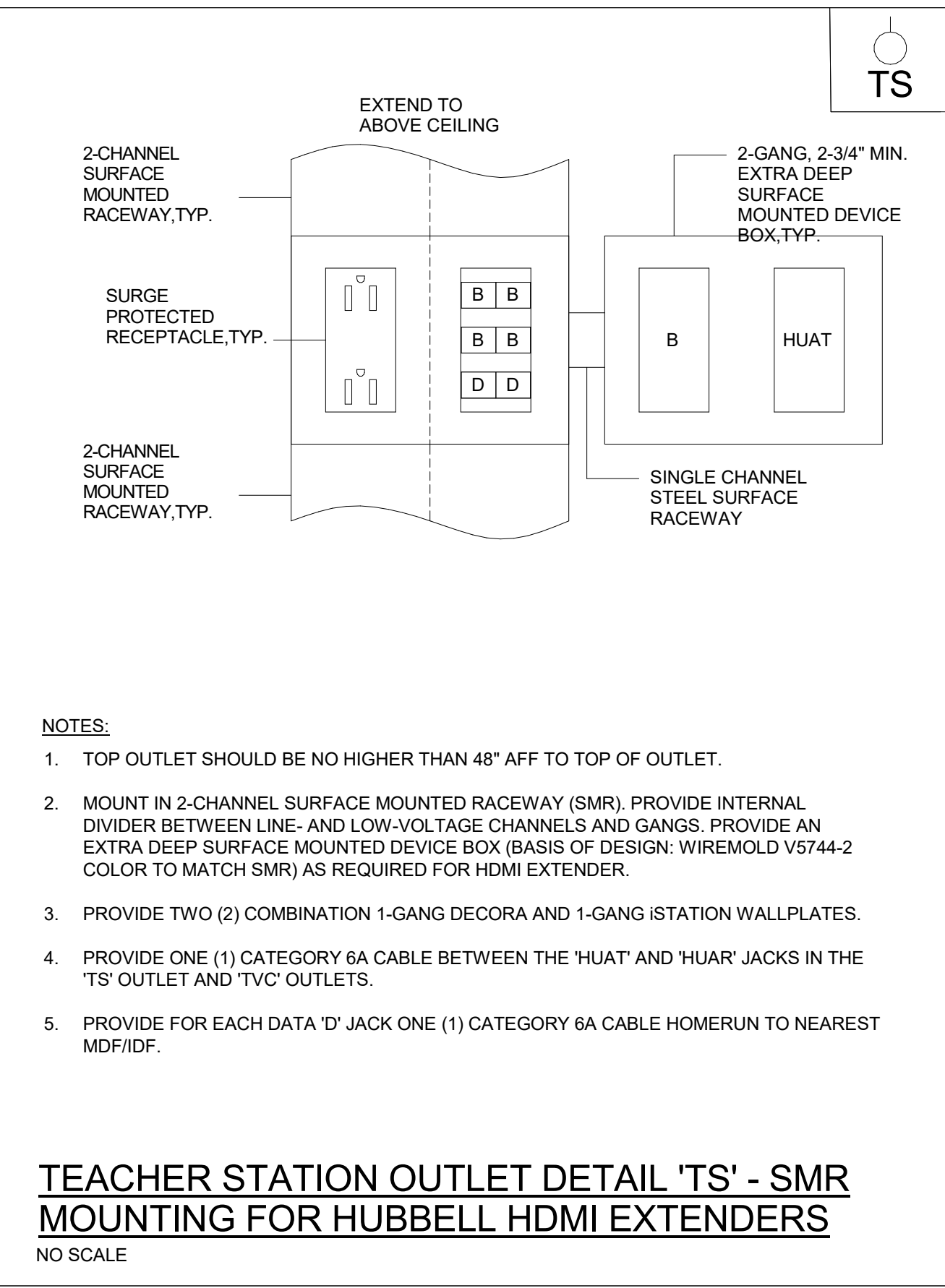
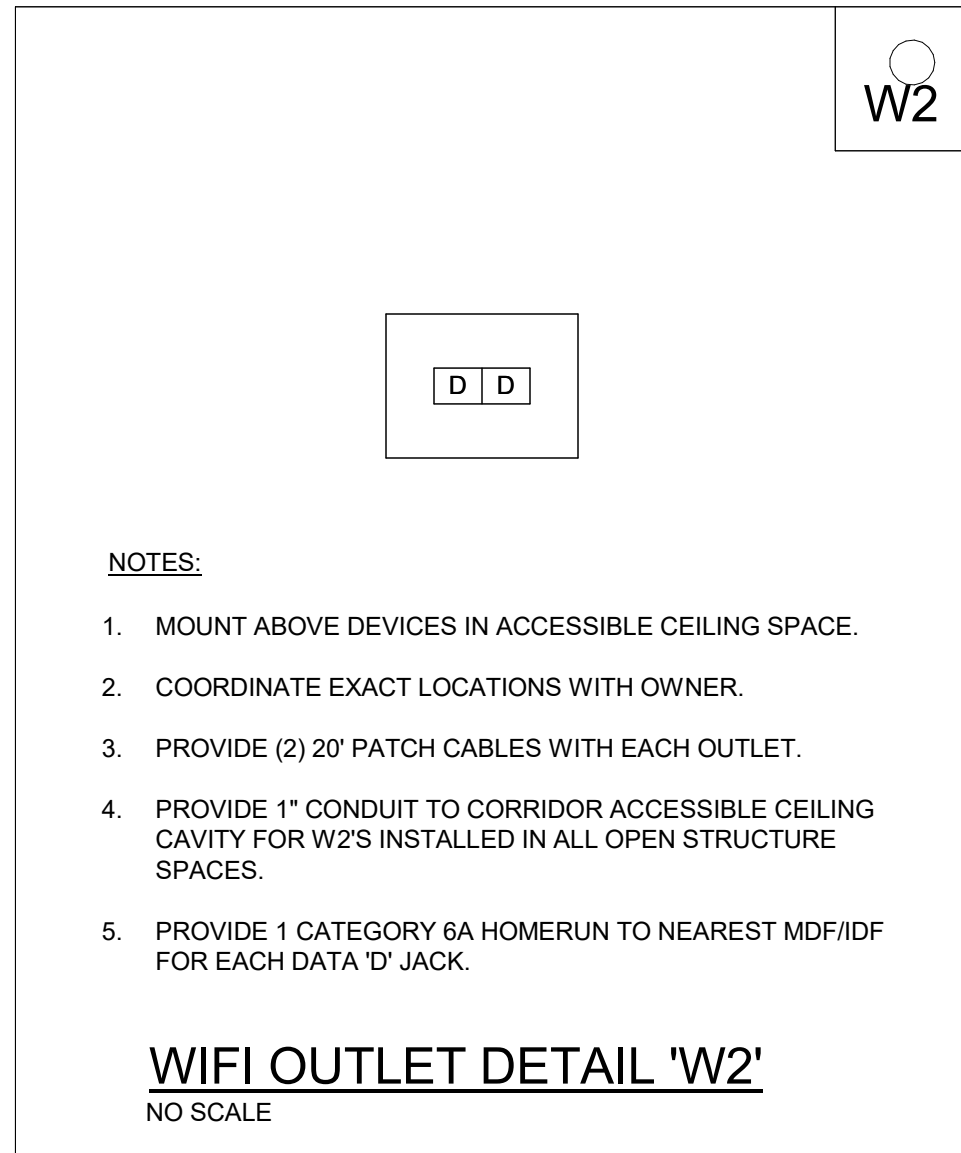
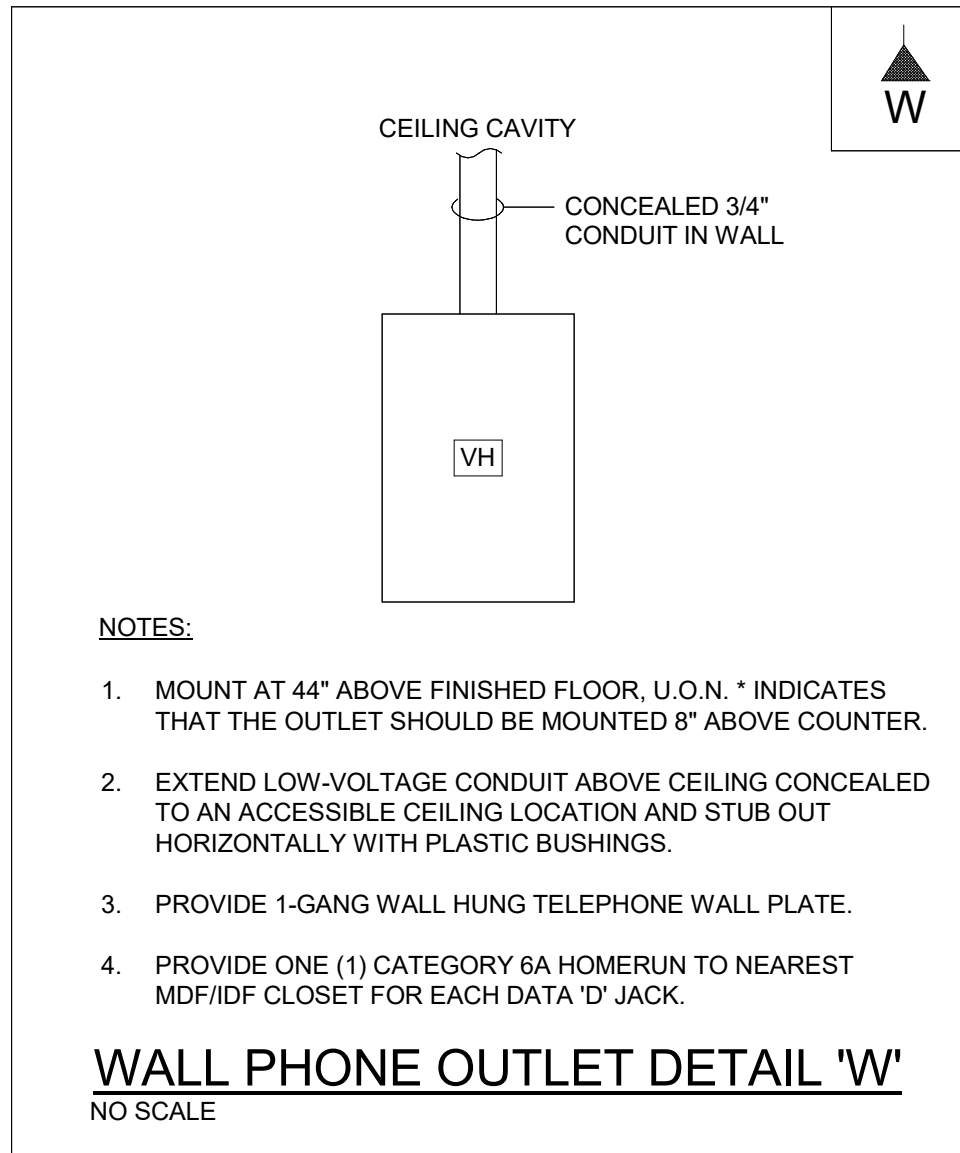
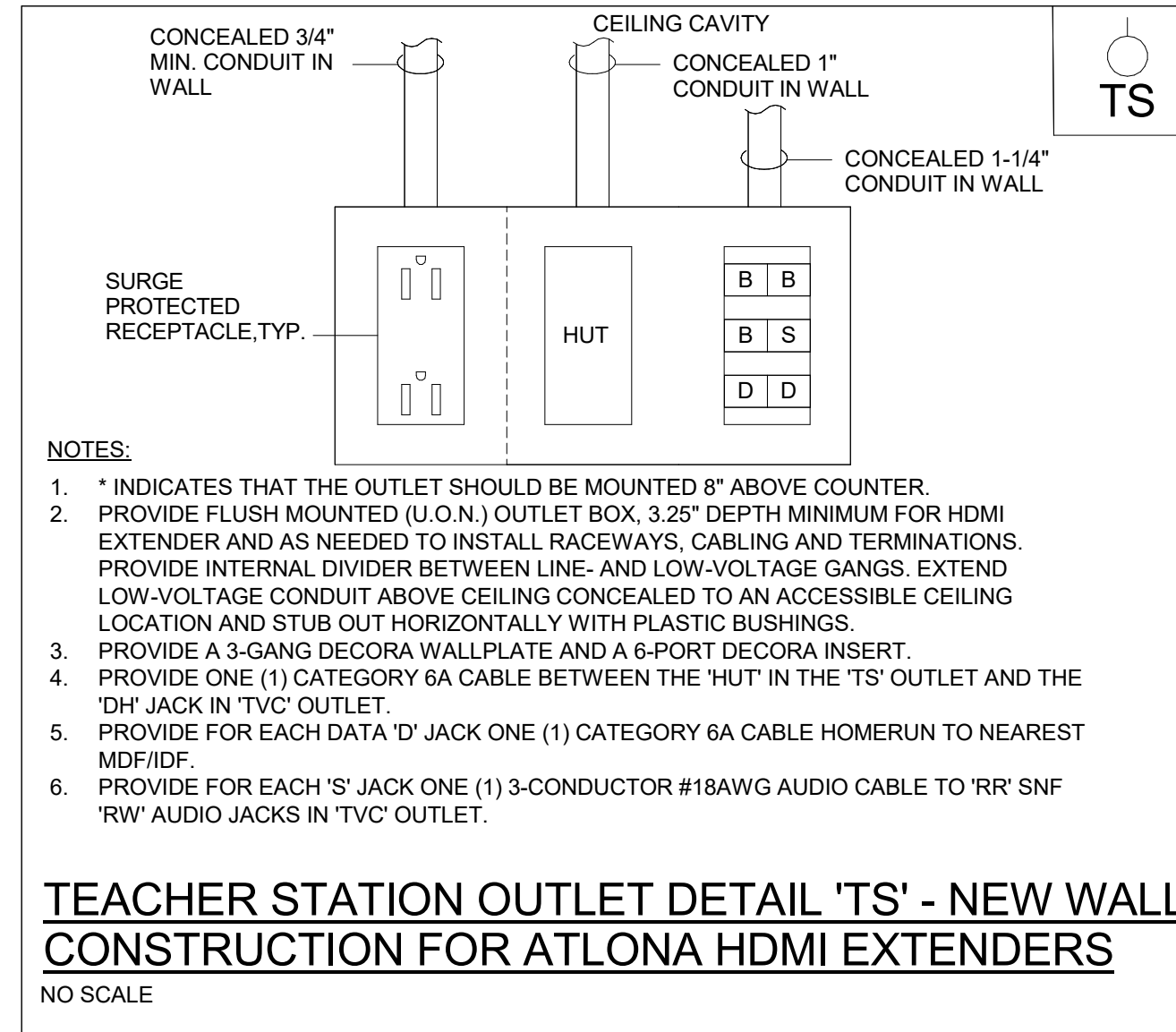
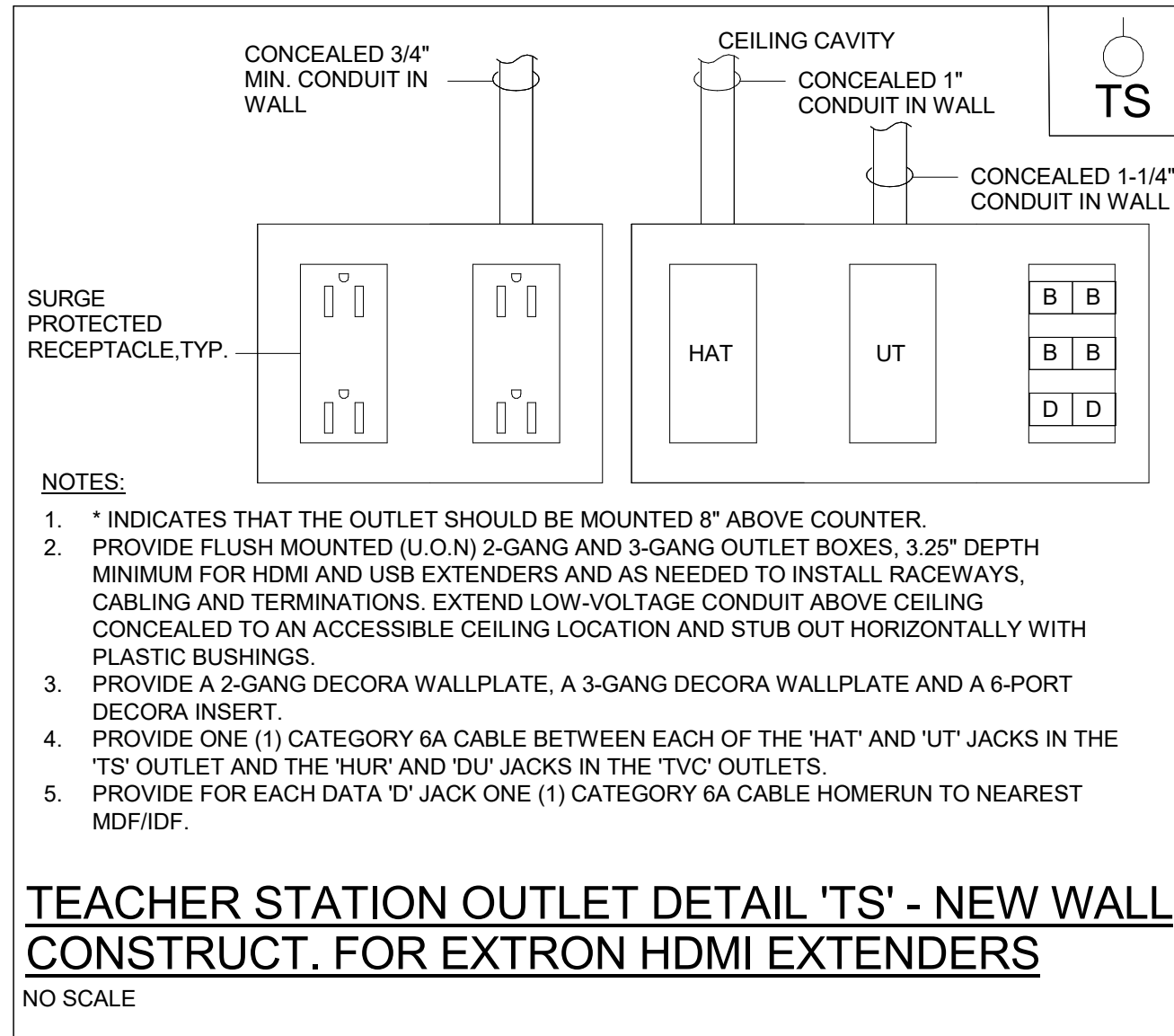
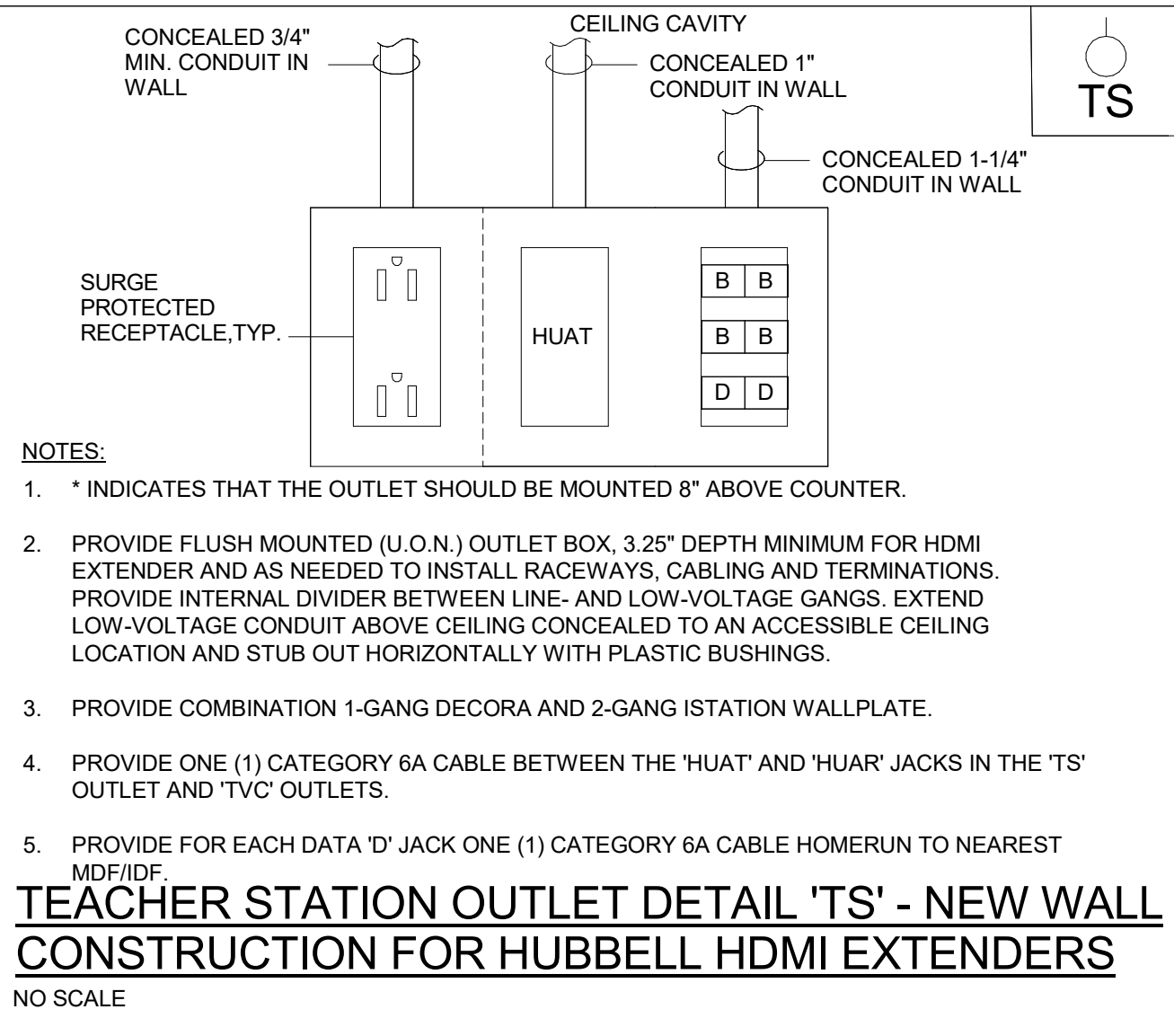
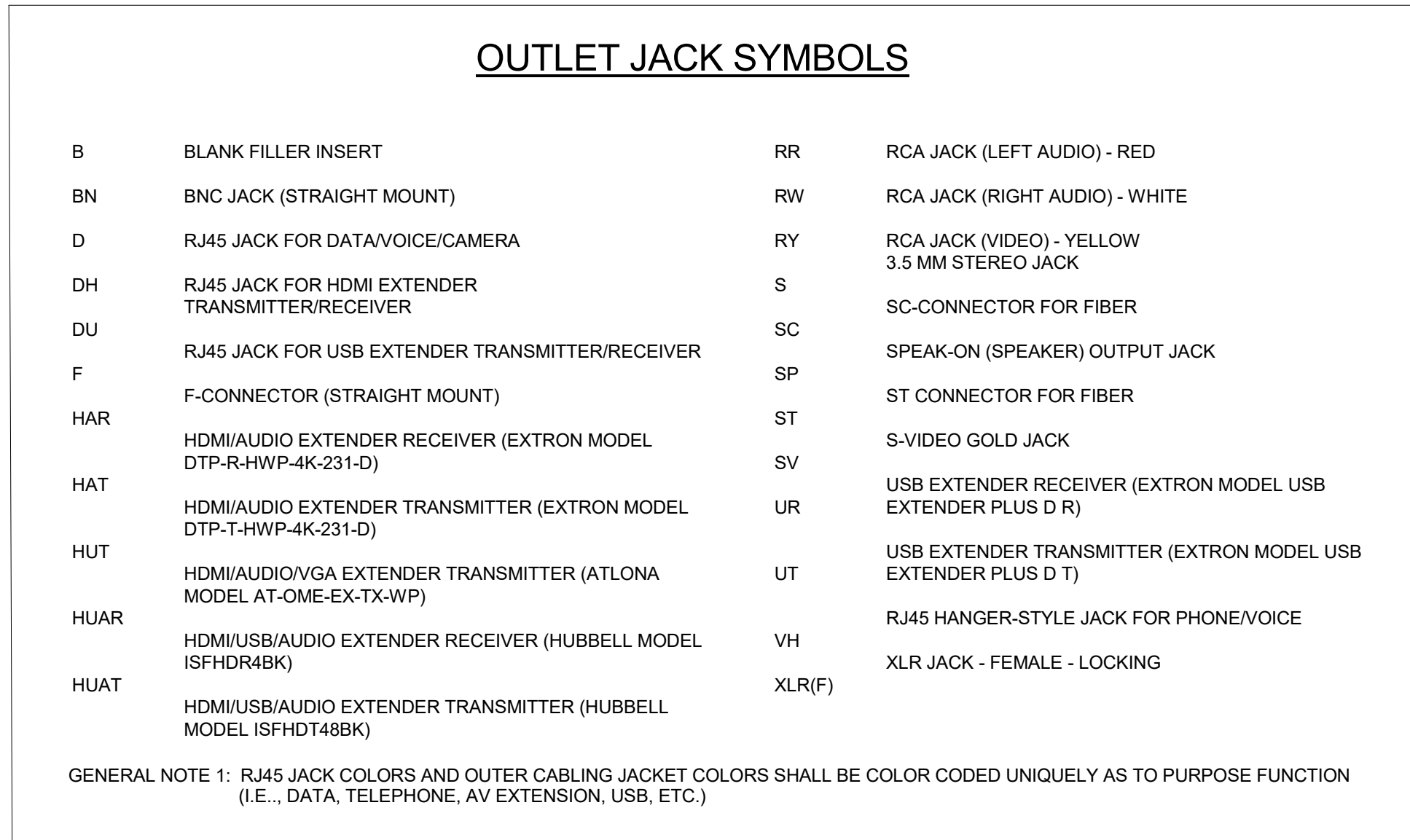
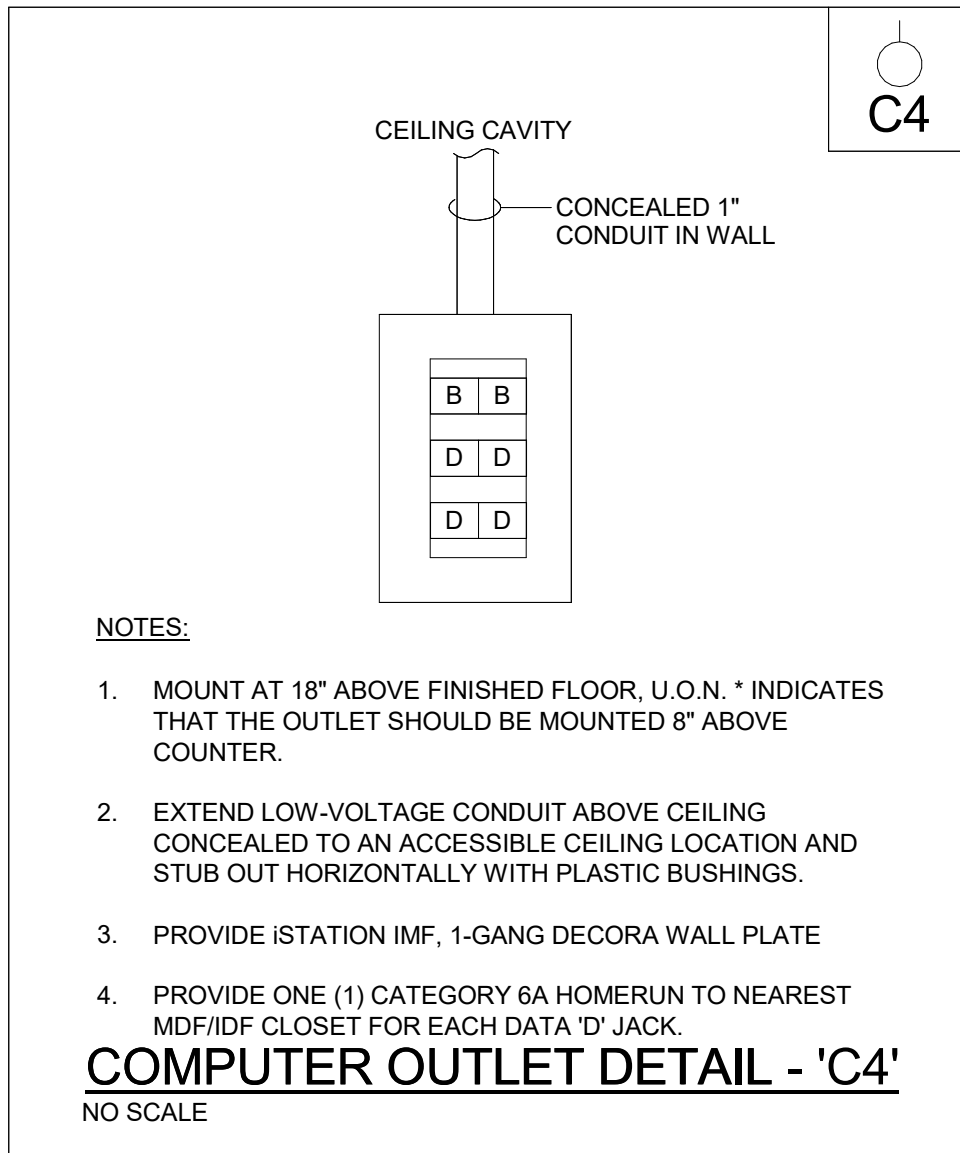
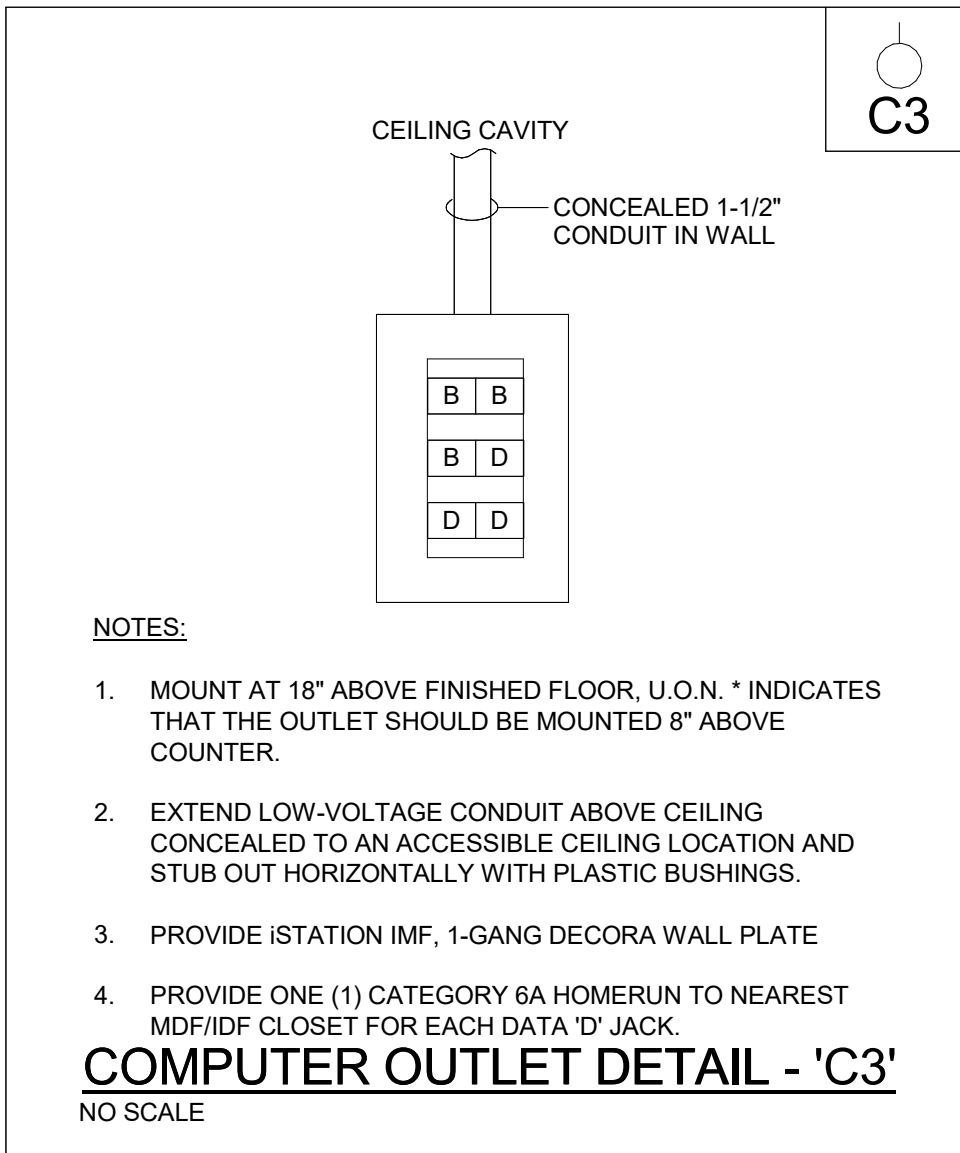
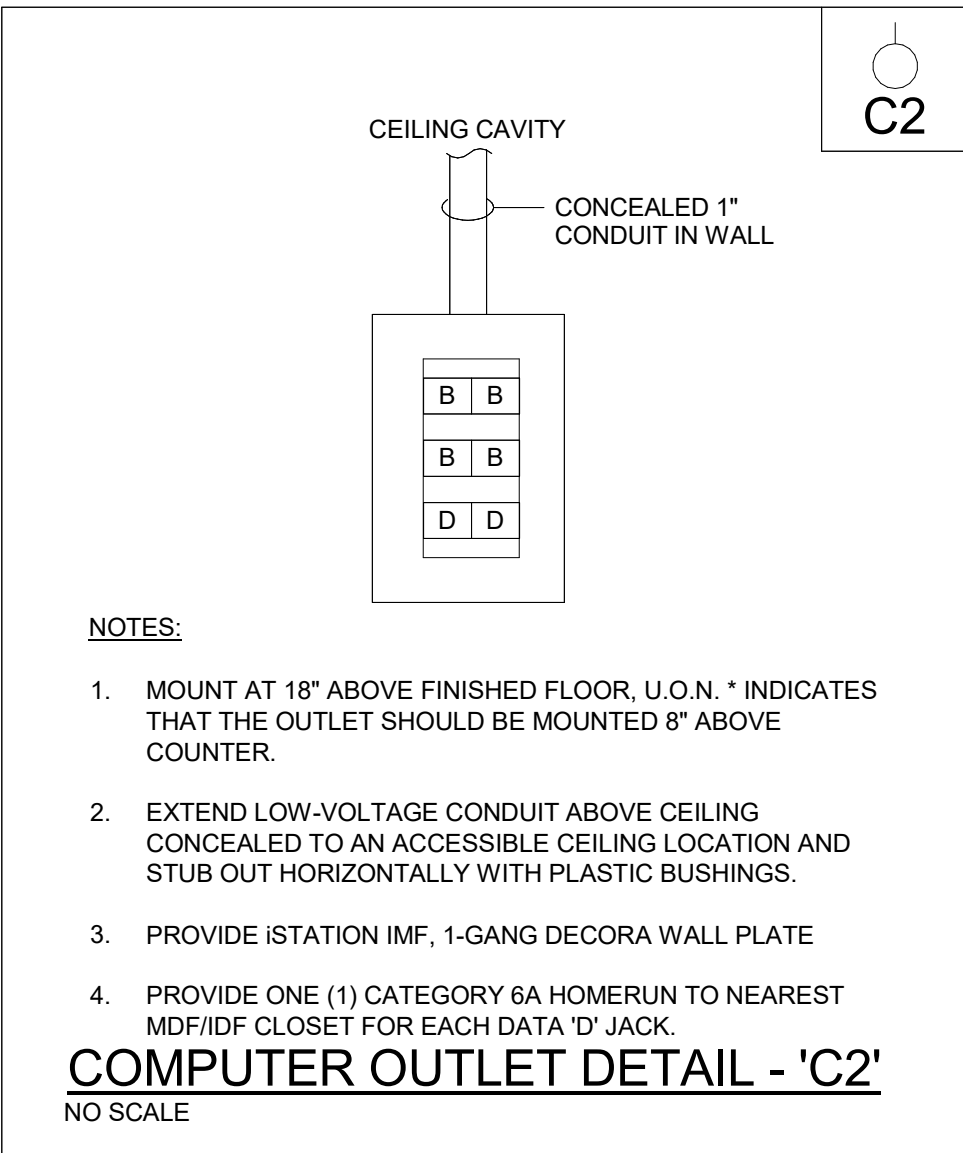
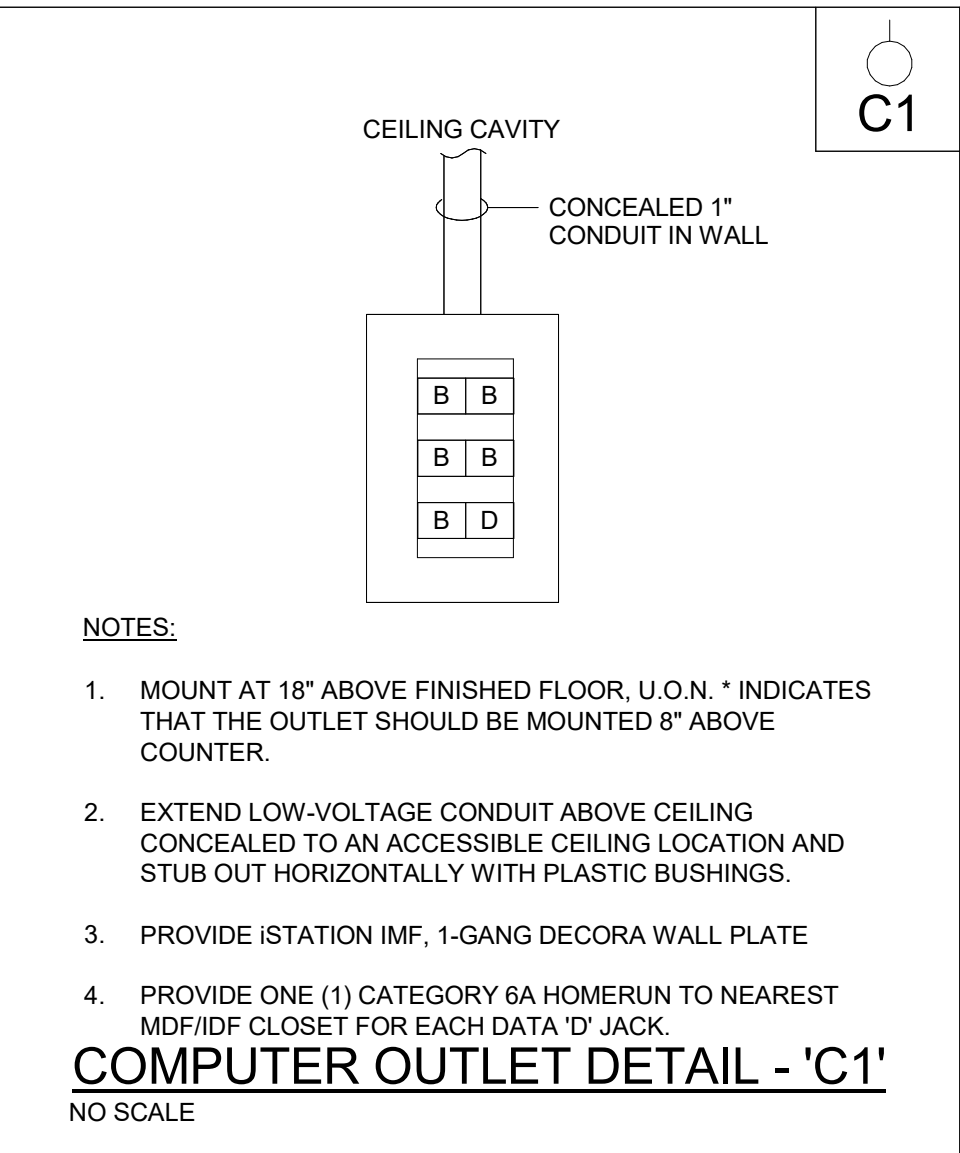
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FILENAME:

24056

DATE:

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ELECTRICAL DETAILS

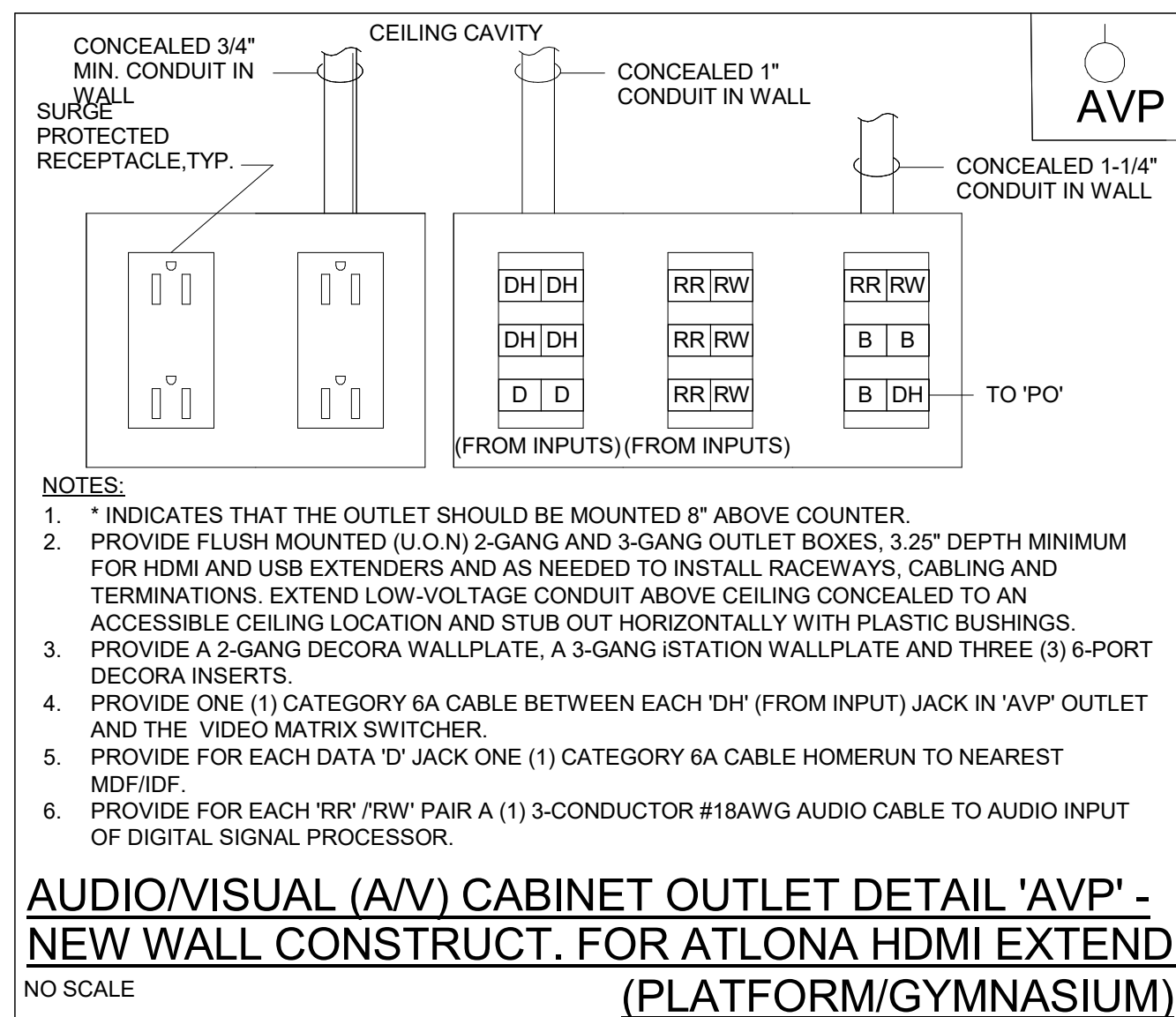
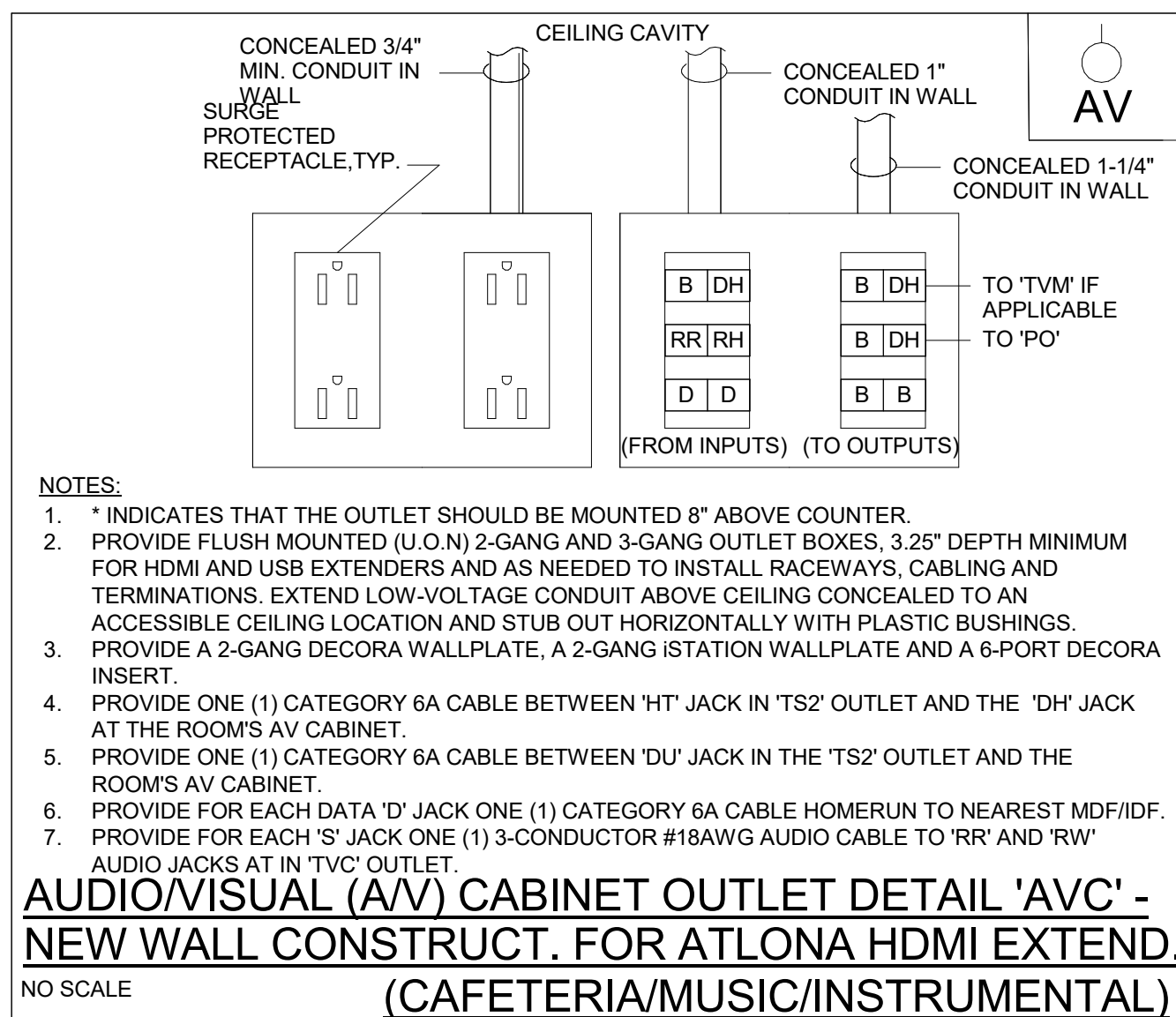
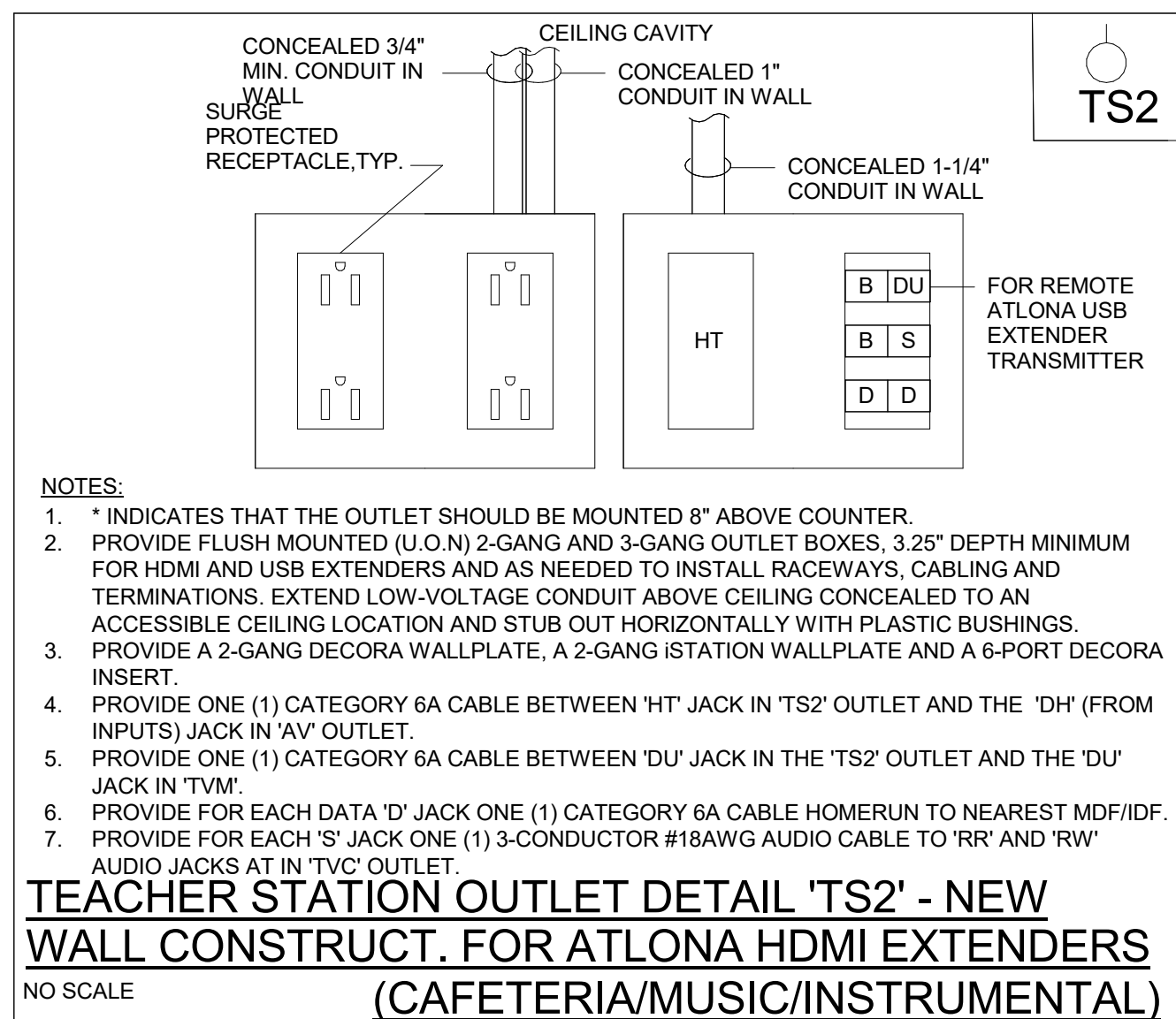
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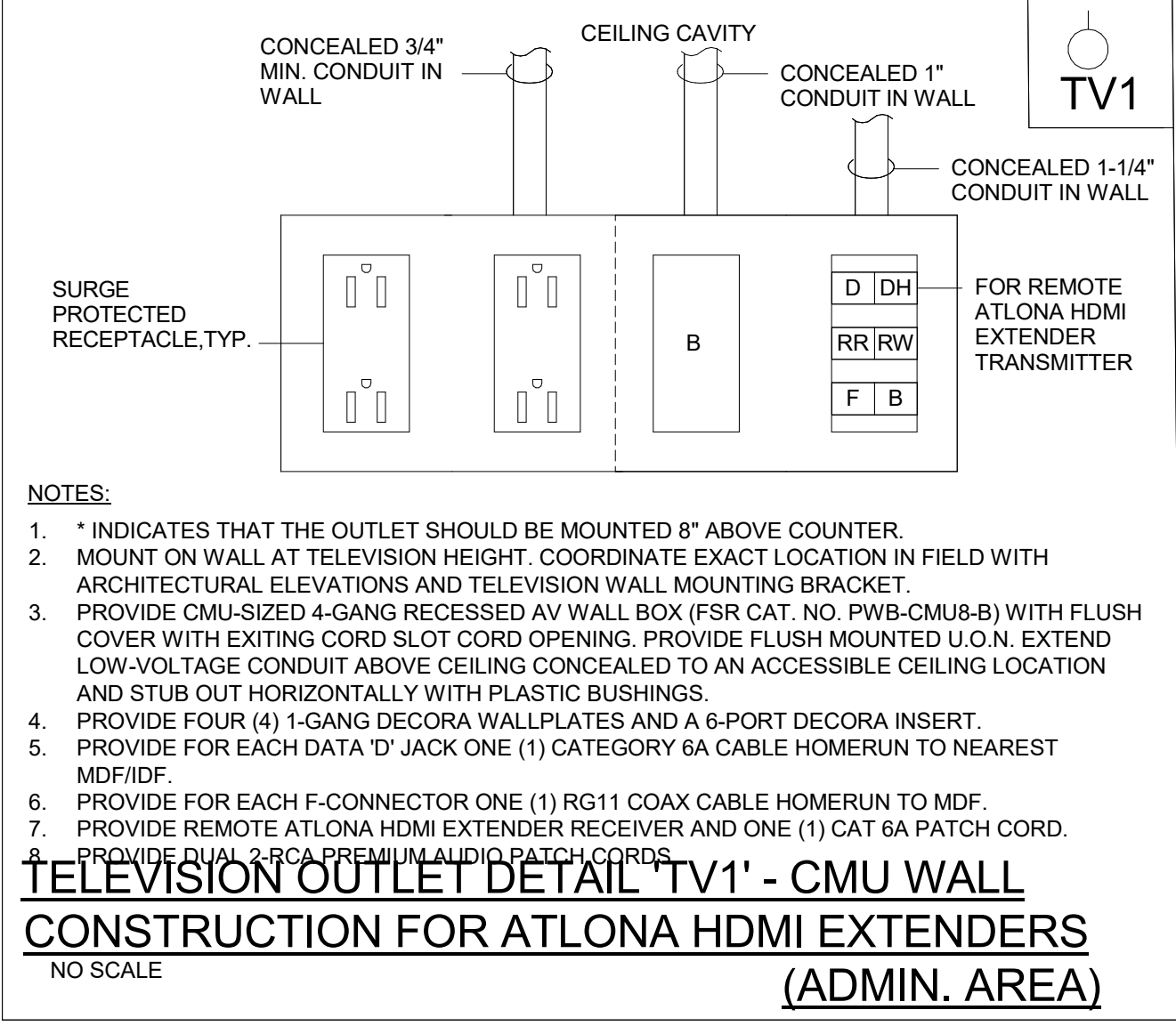
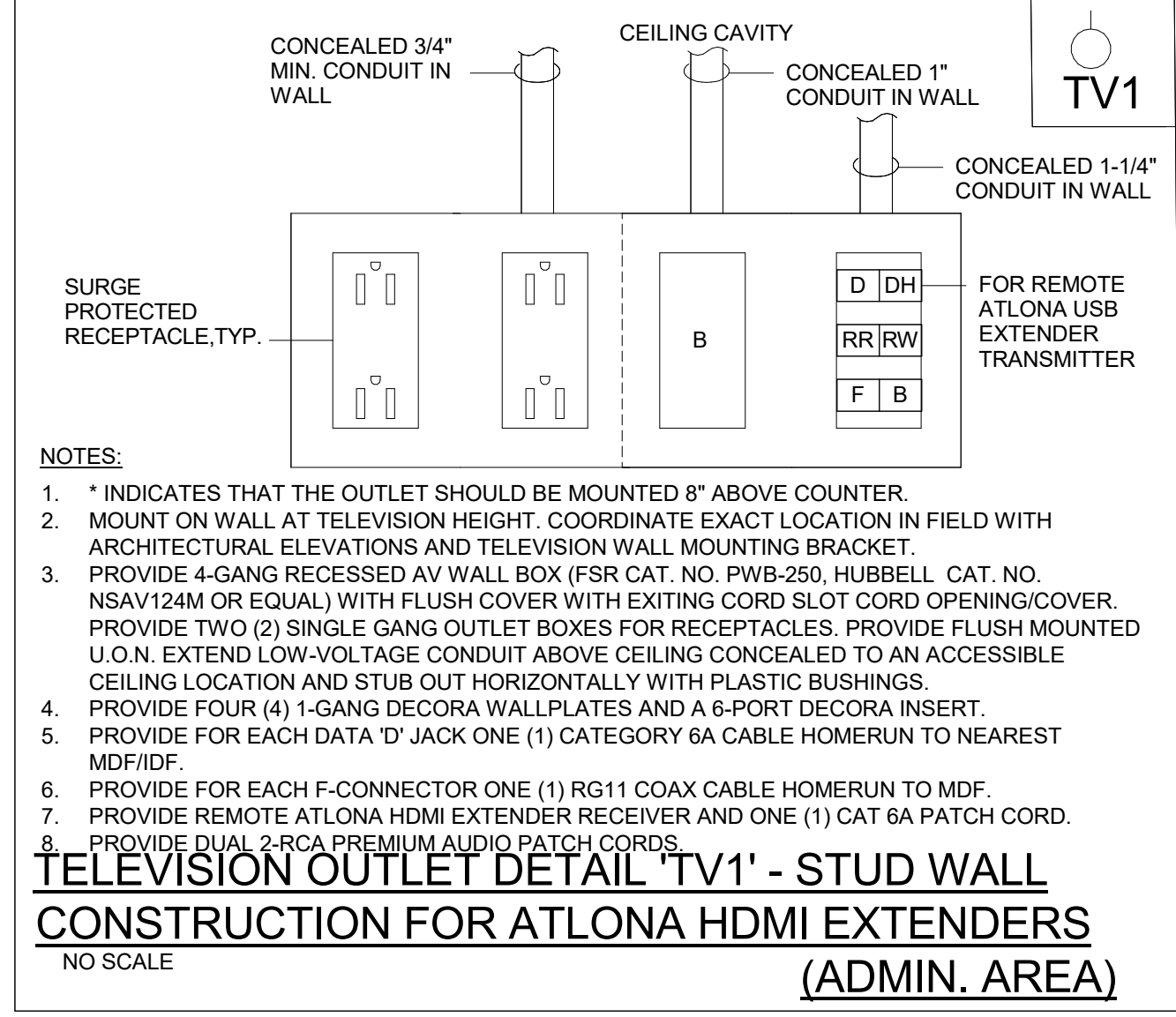
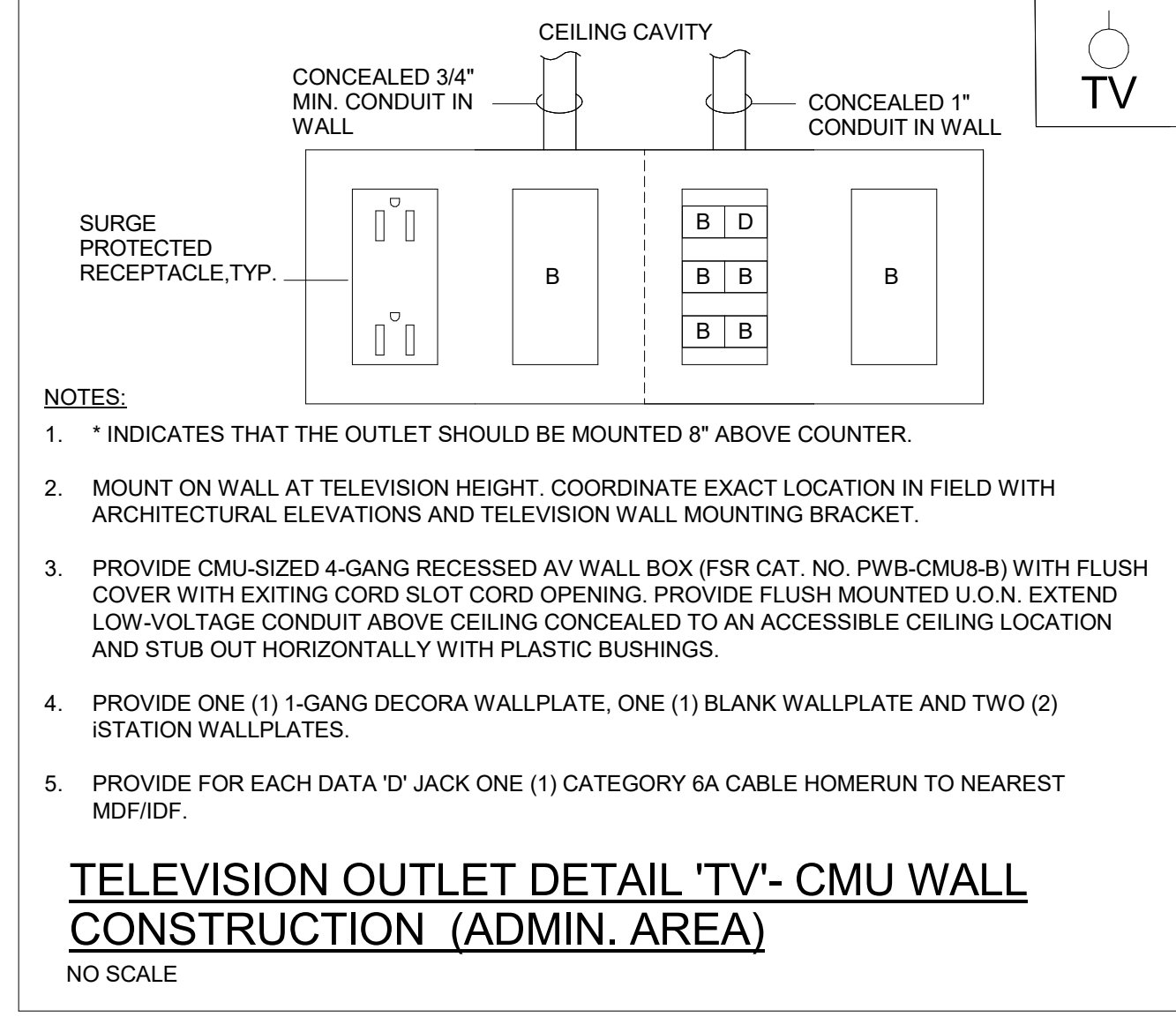
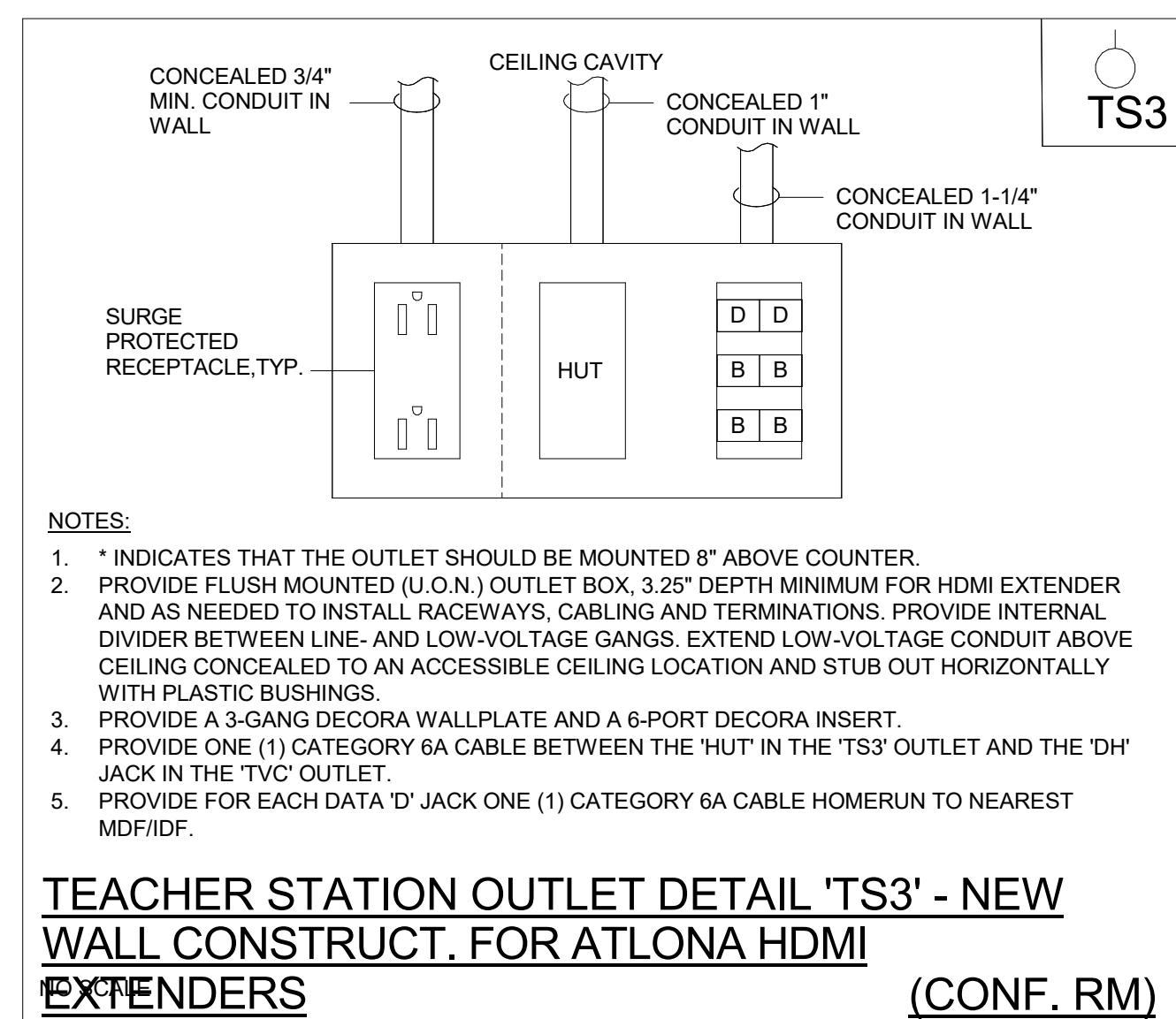
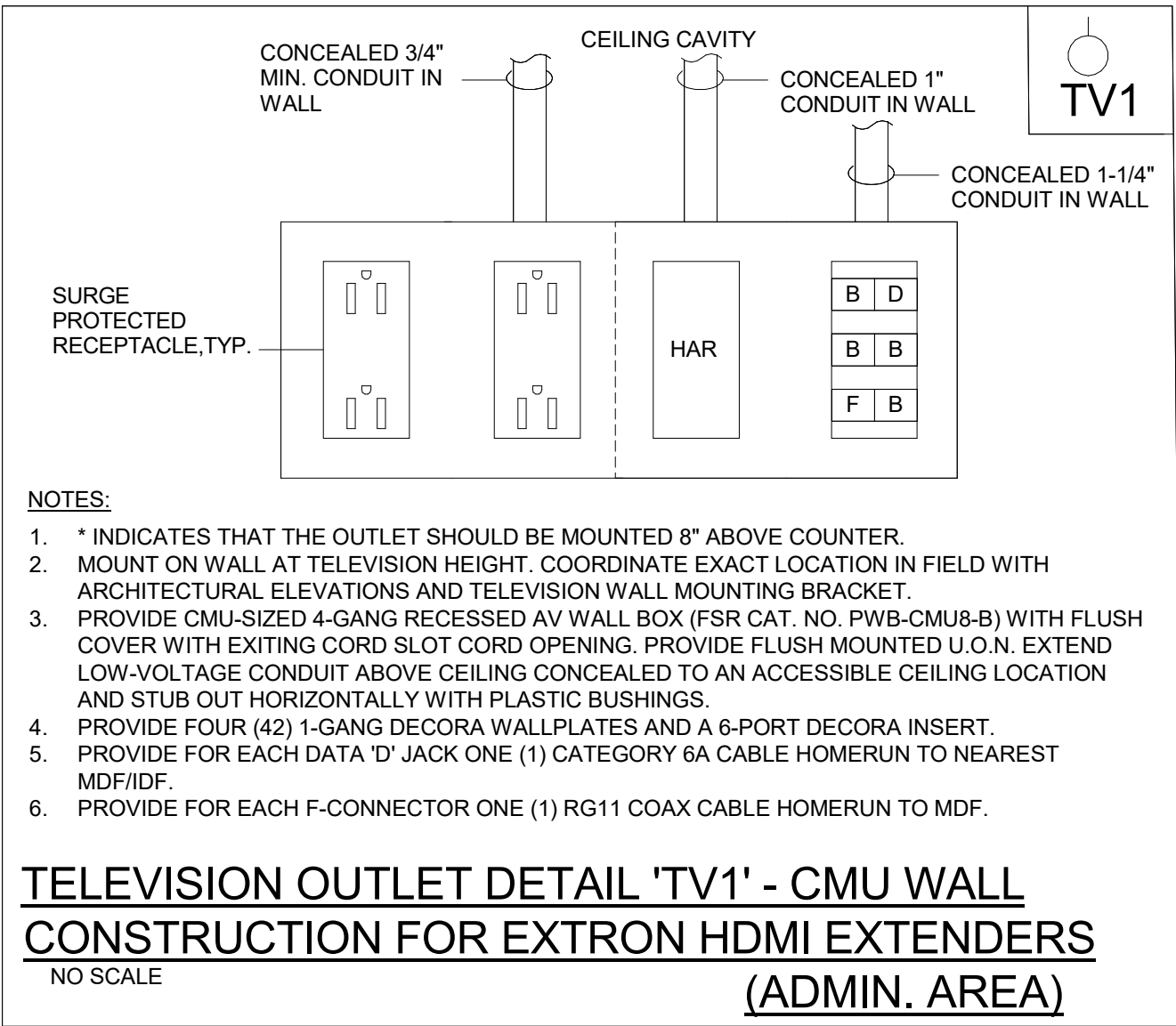
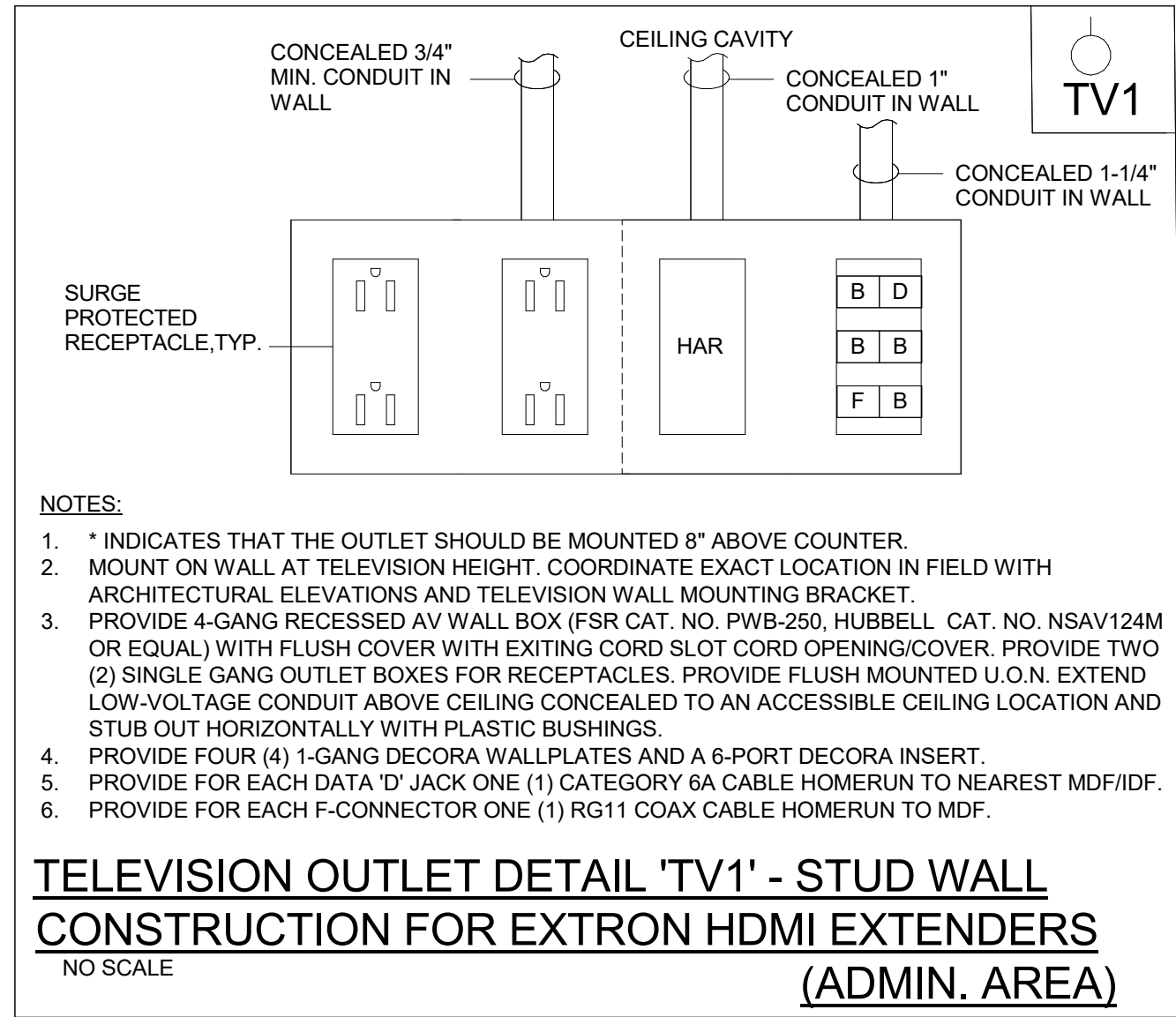
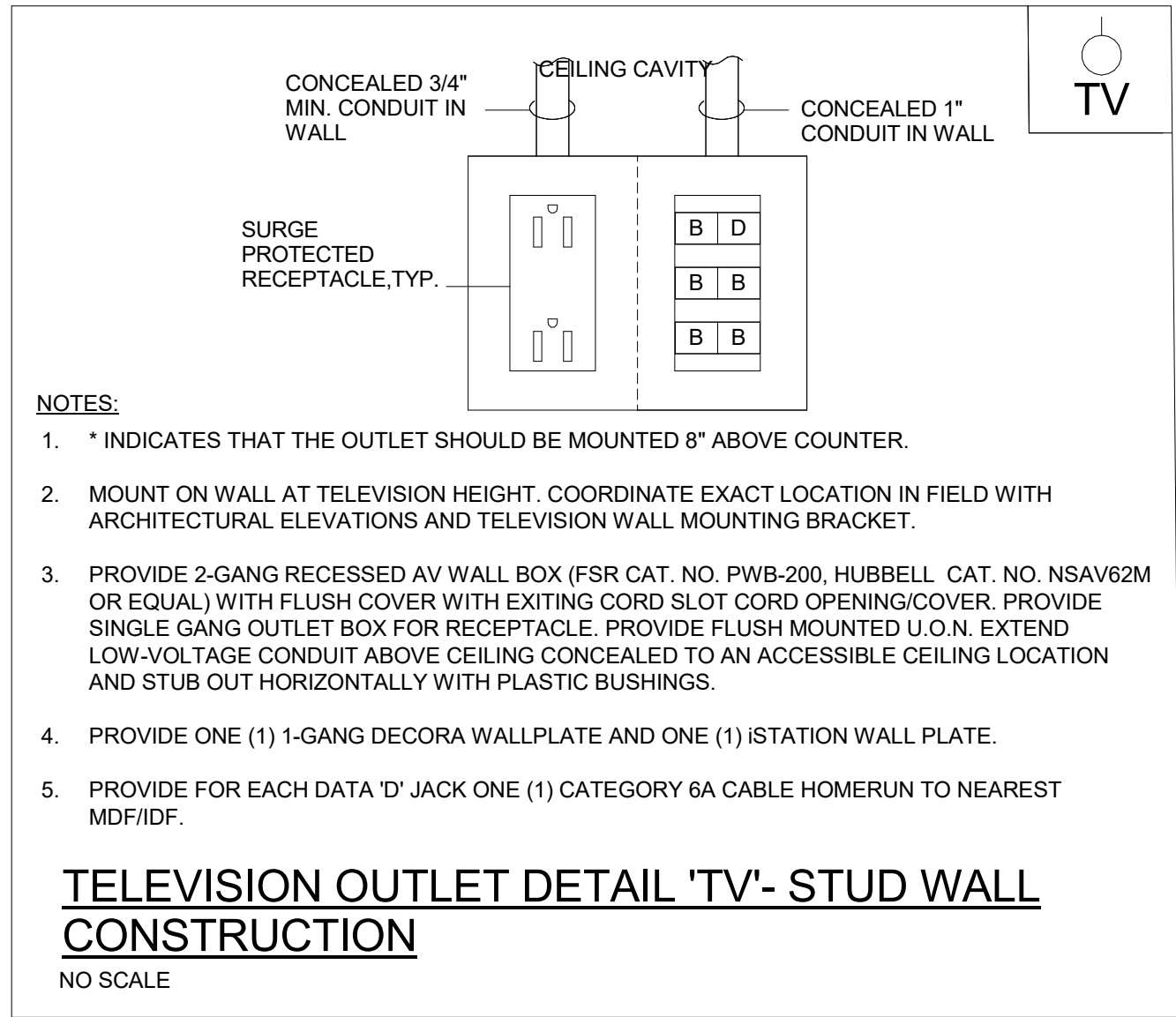
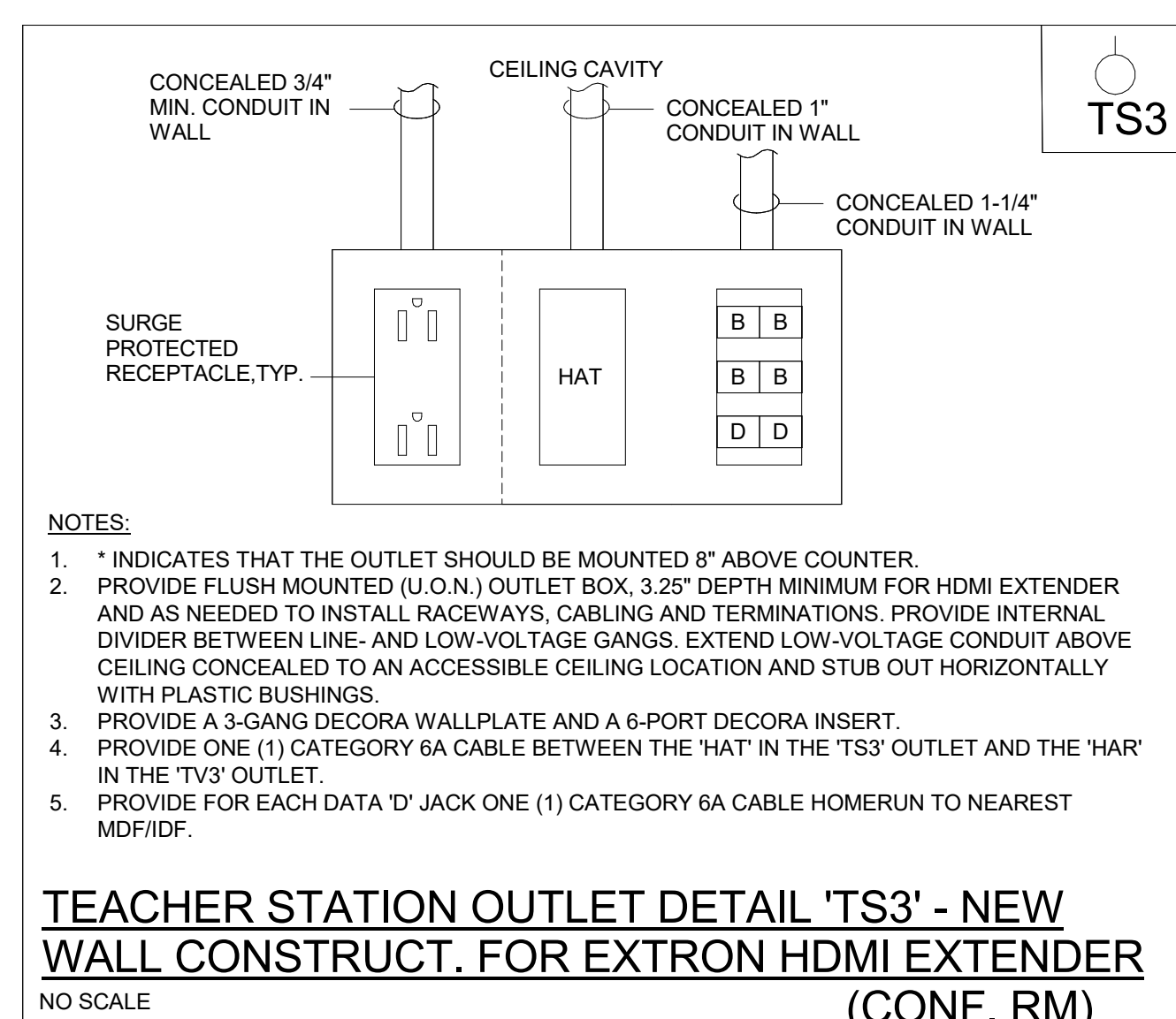
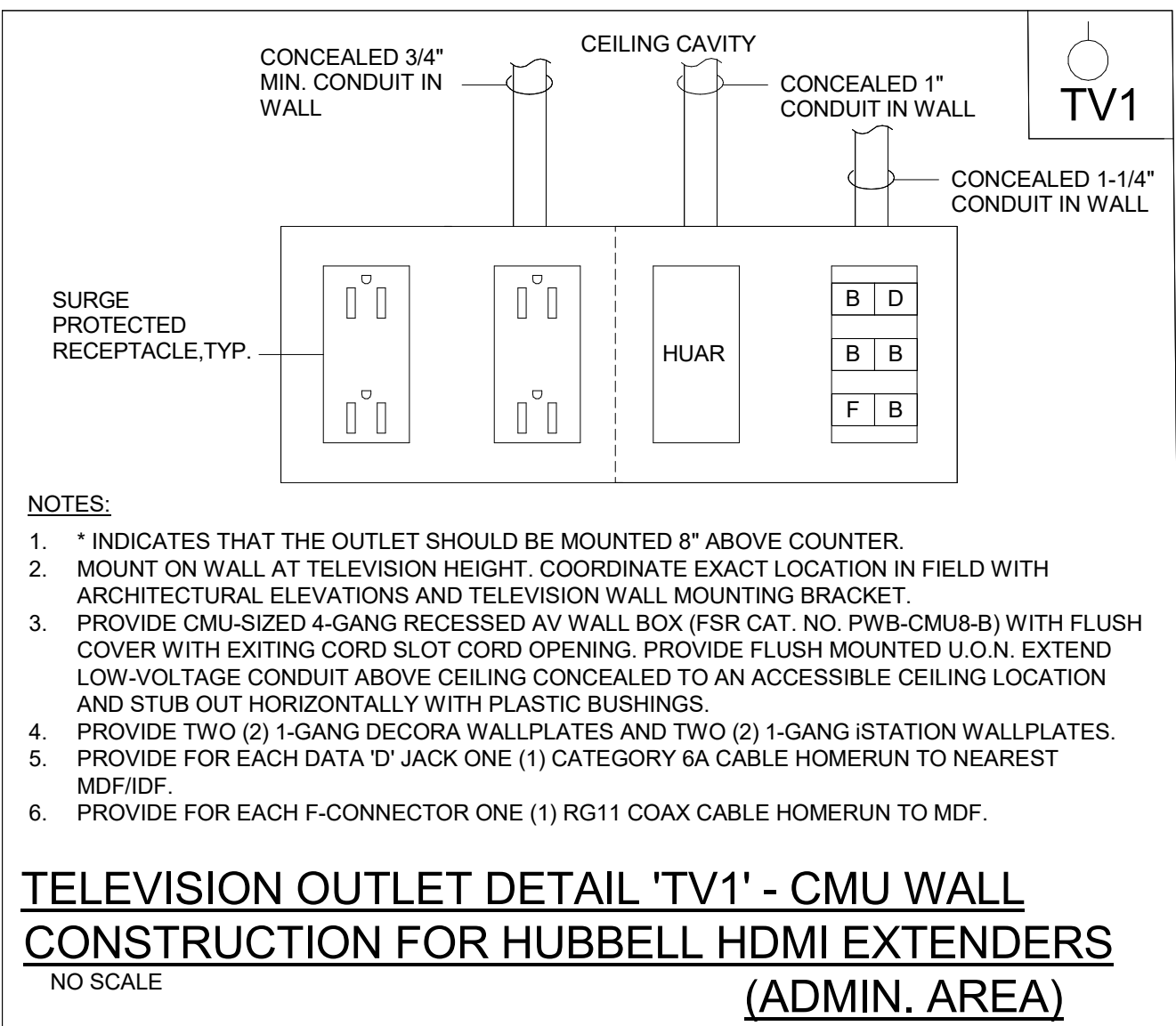
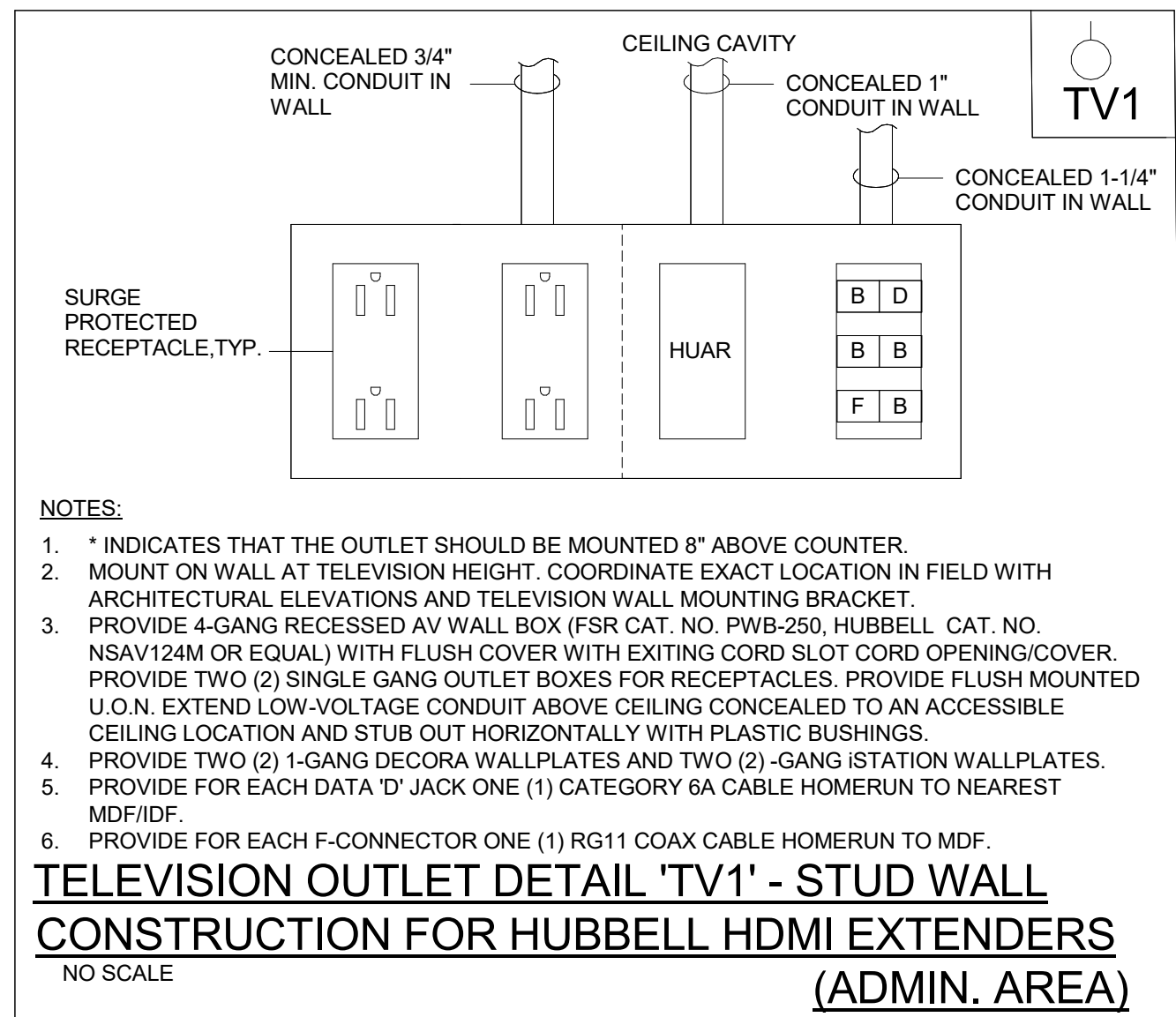
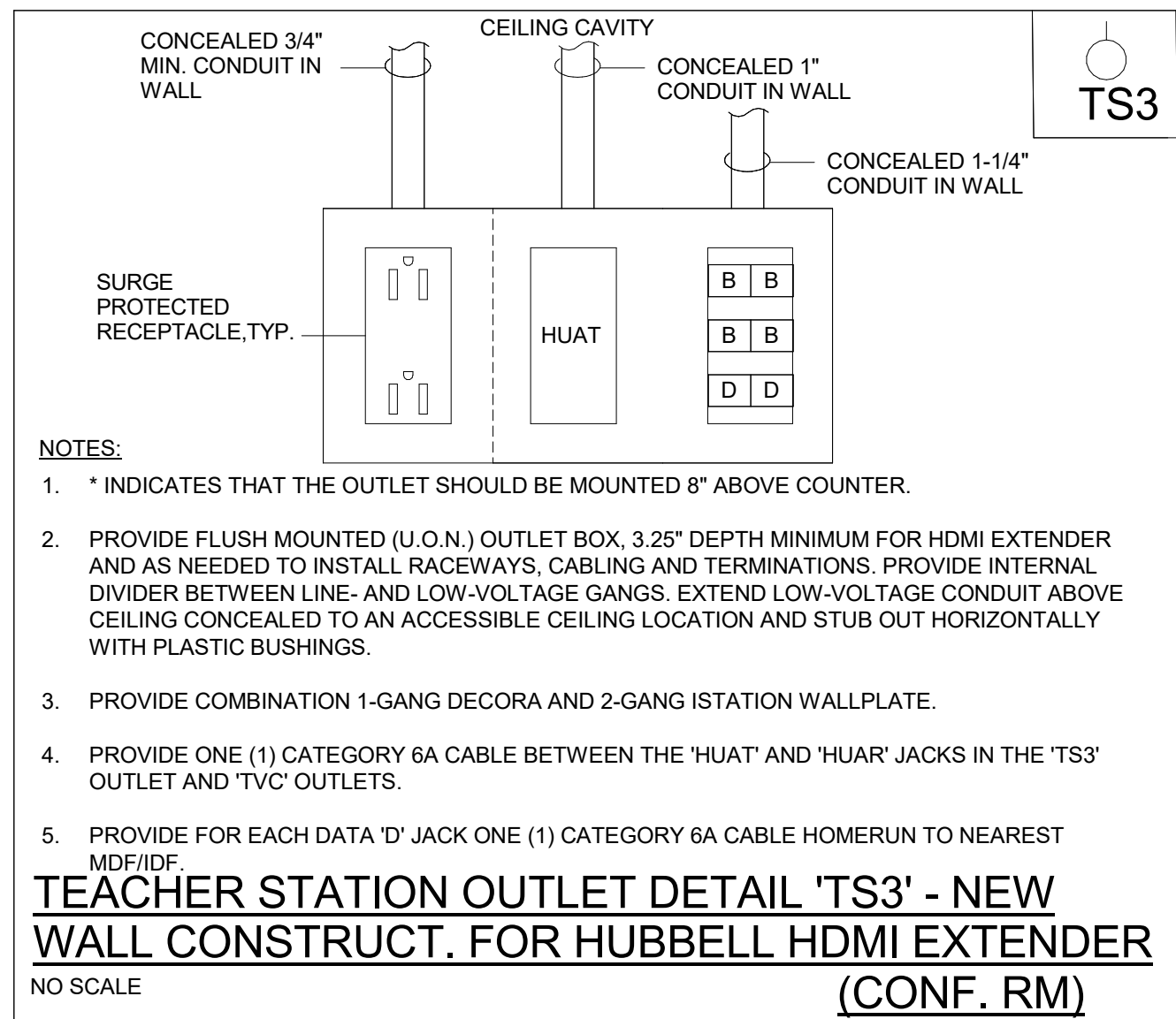
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PROJECT
3758

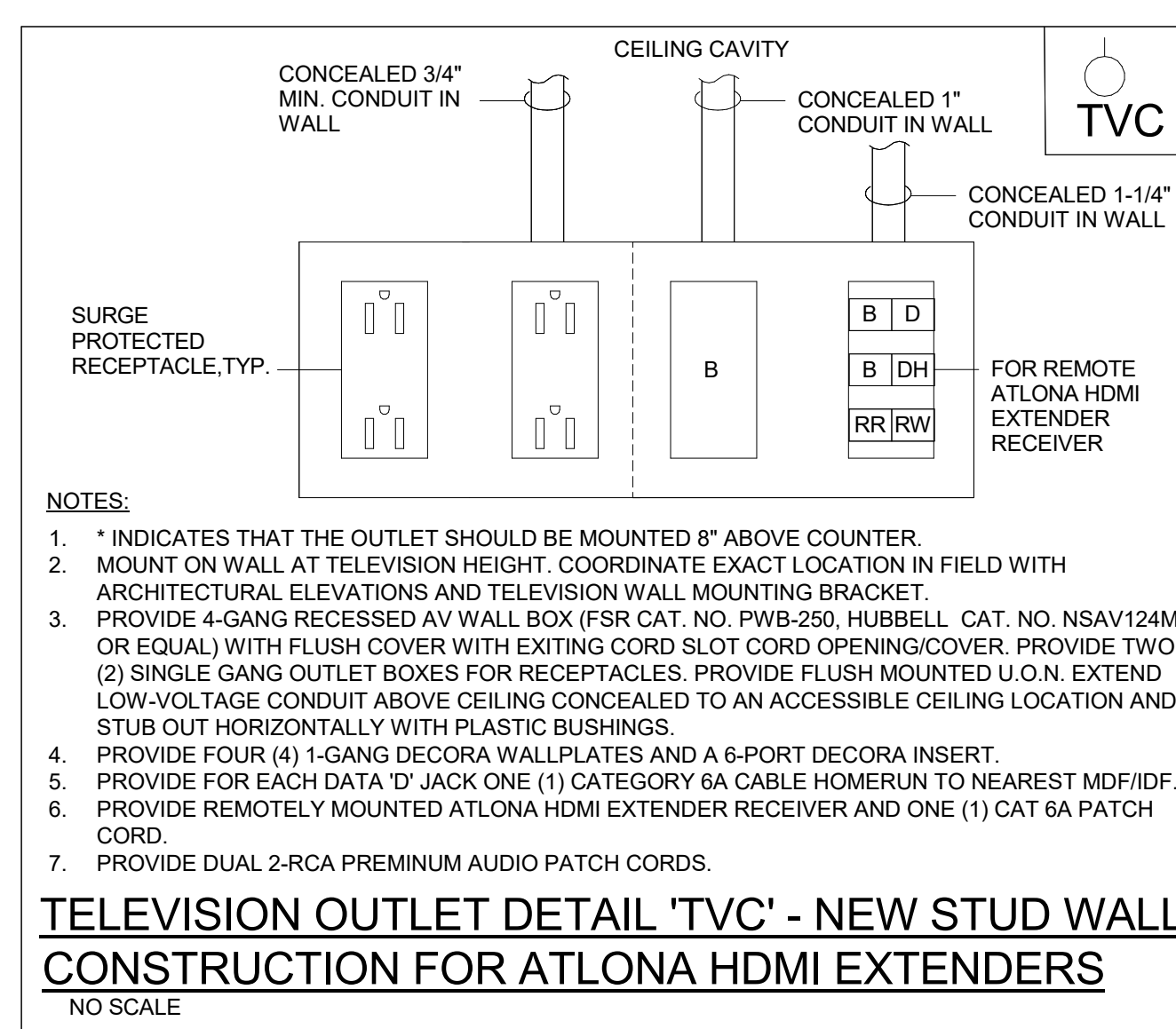
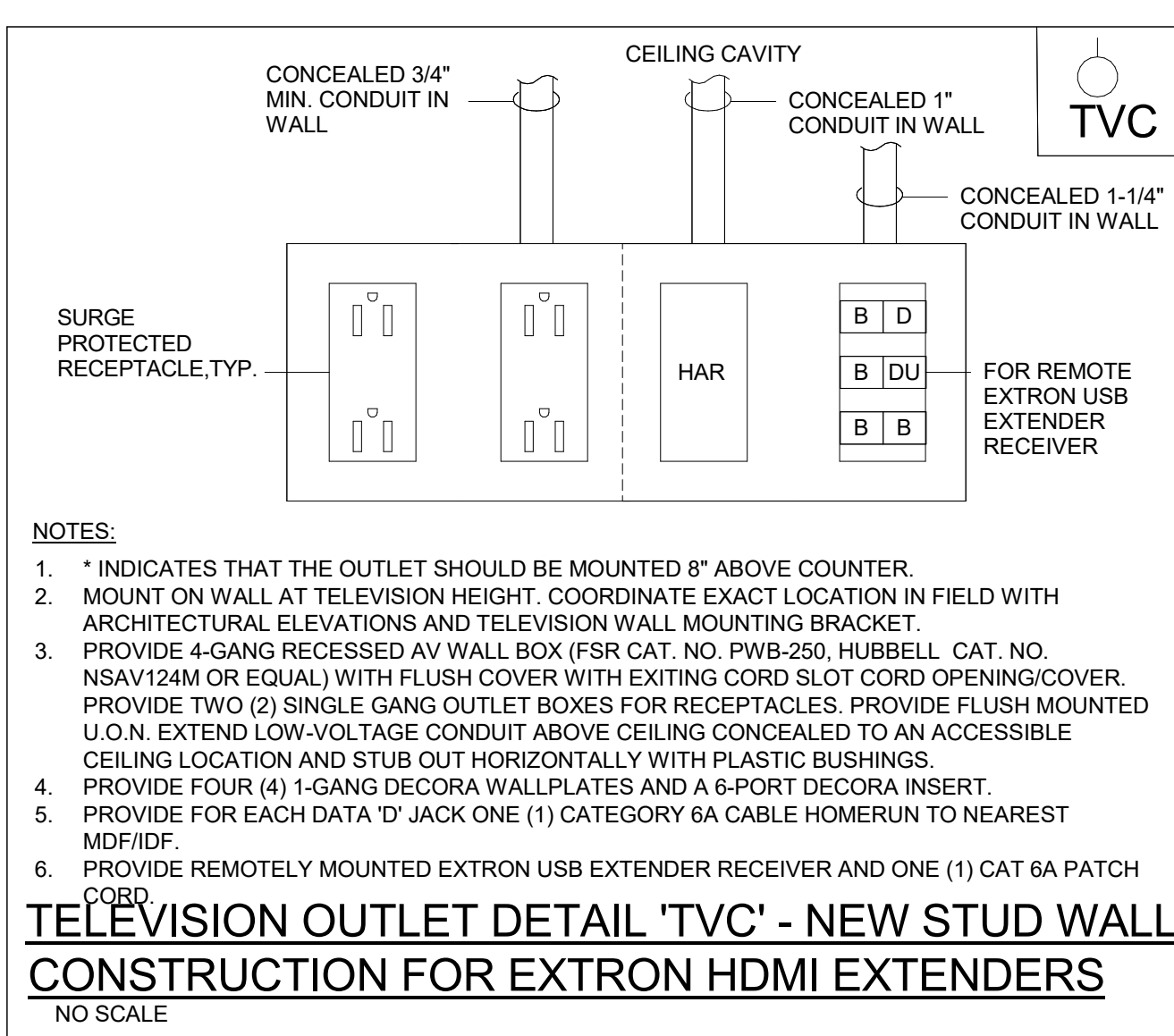
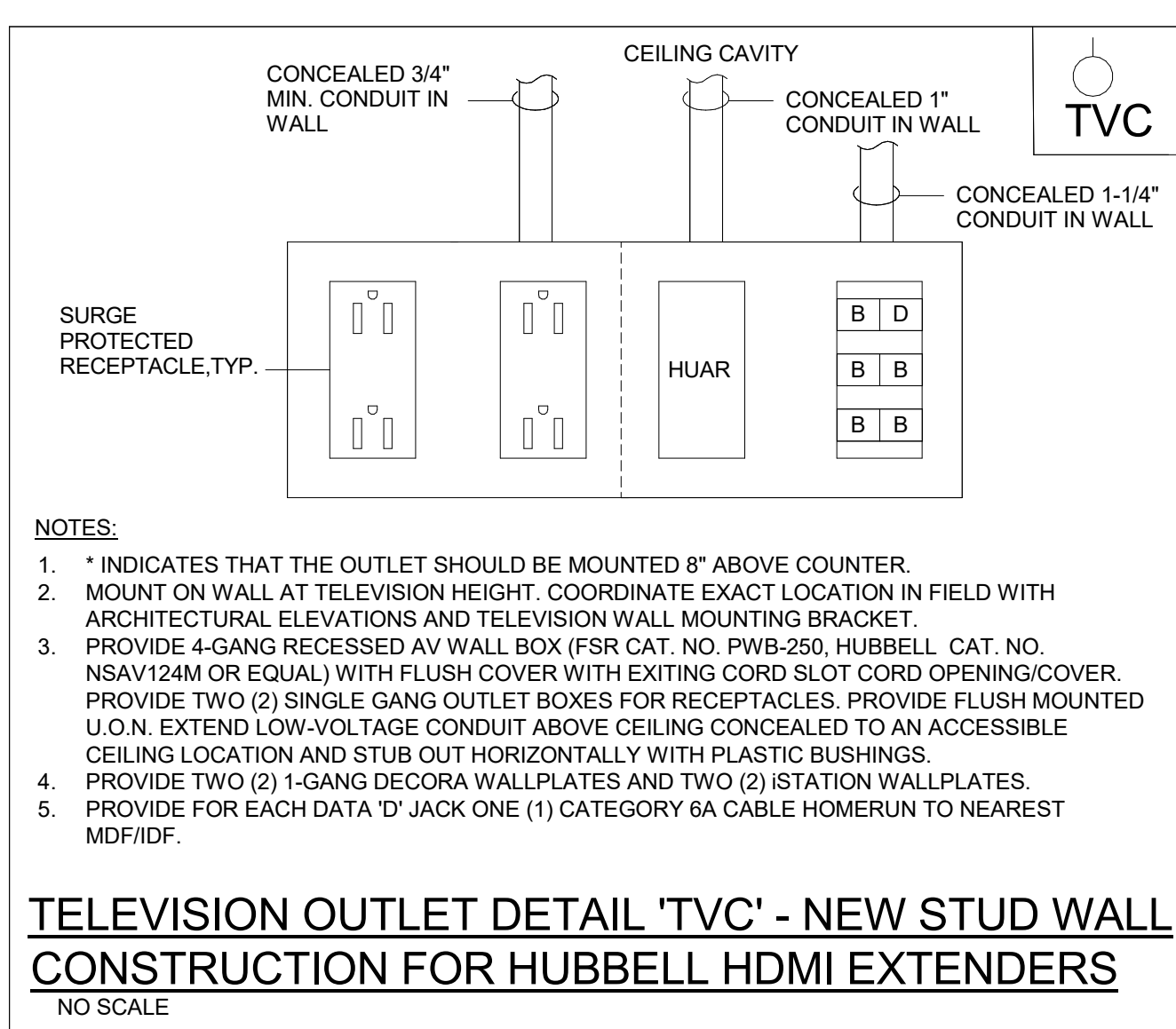
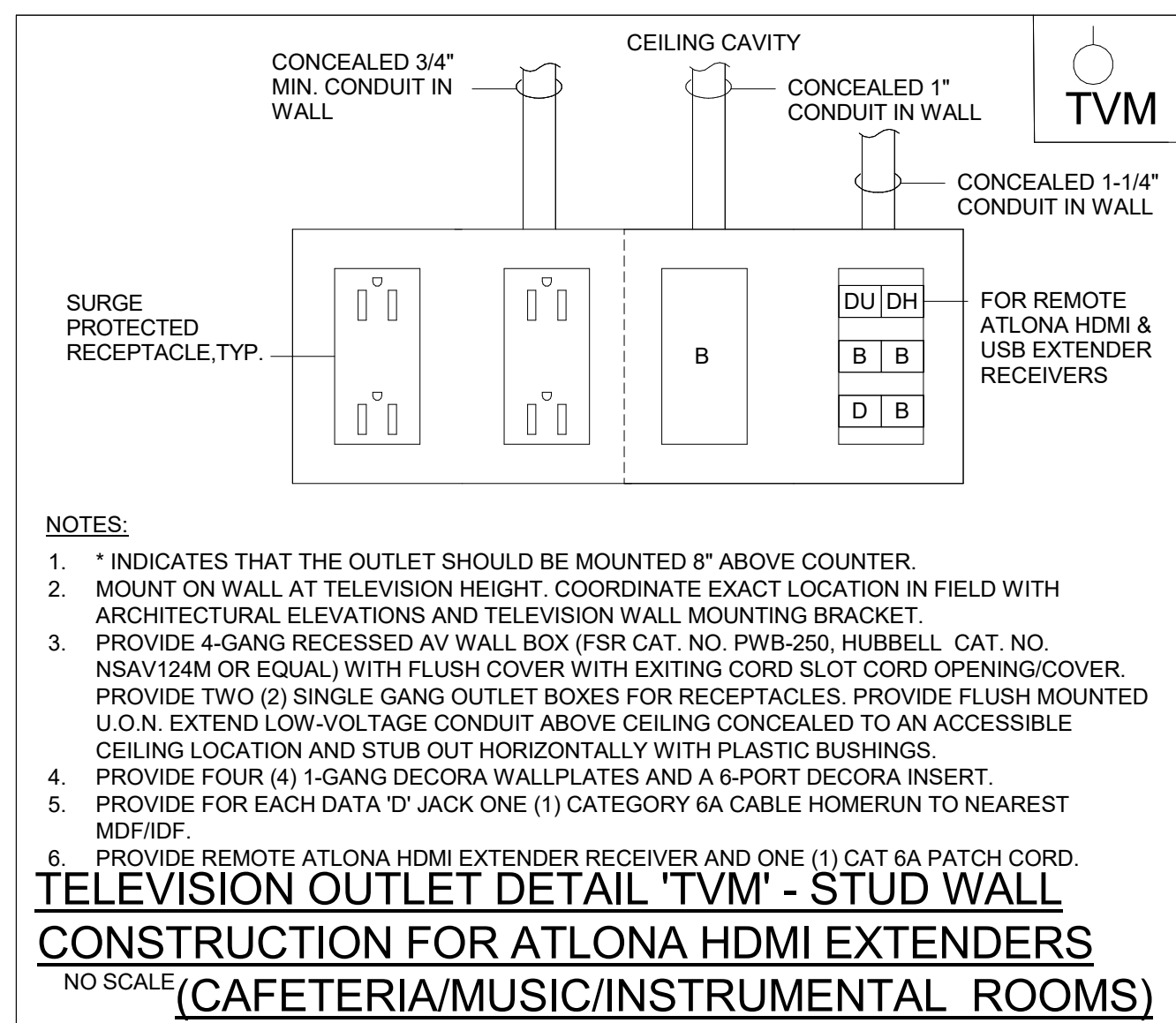
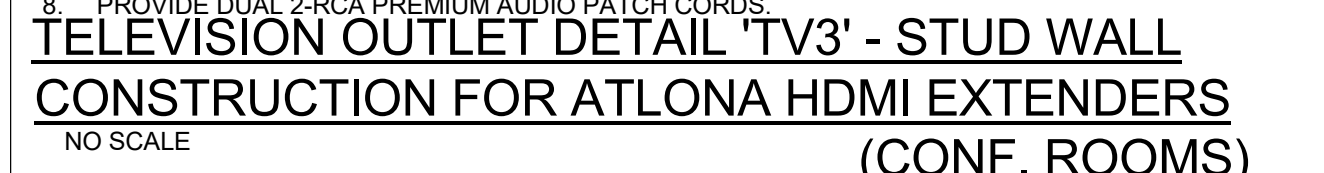
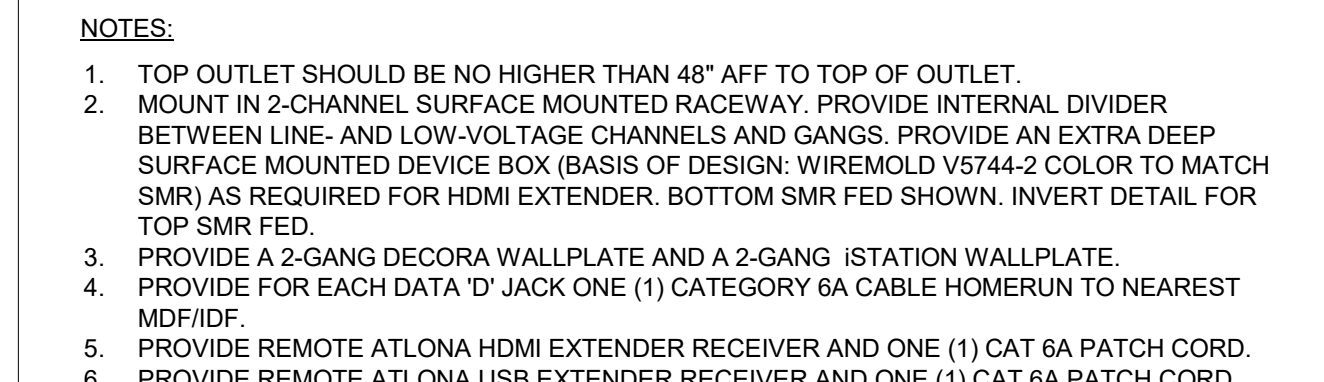
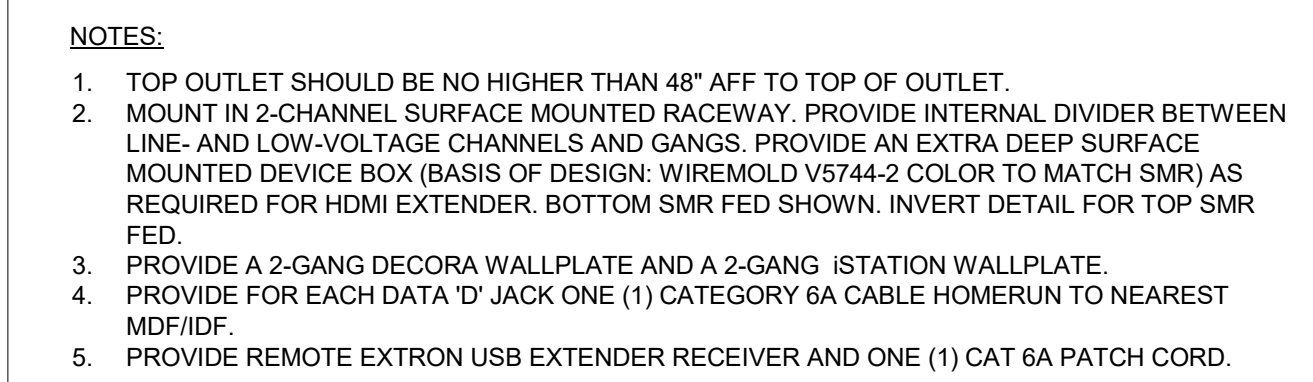
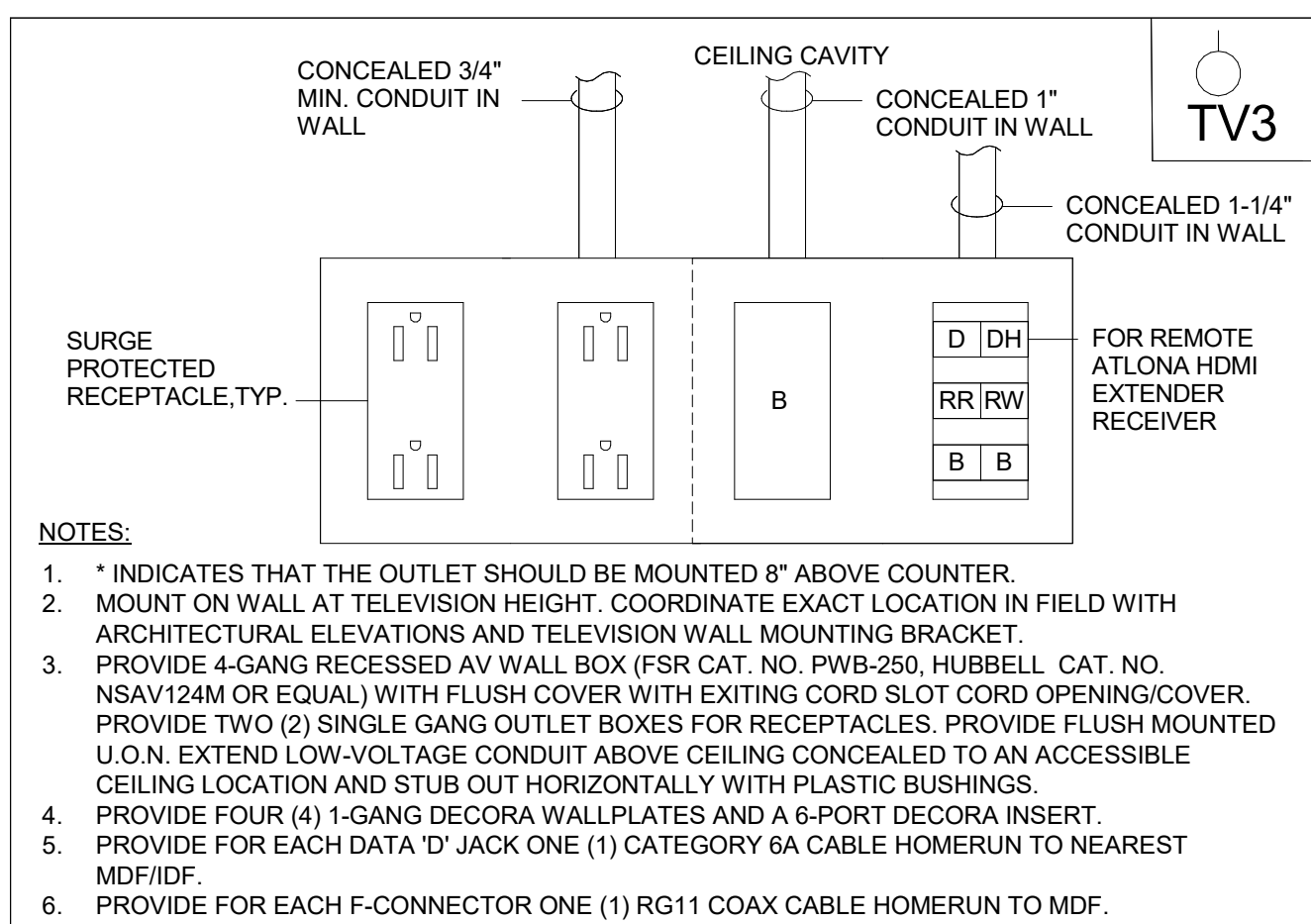
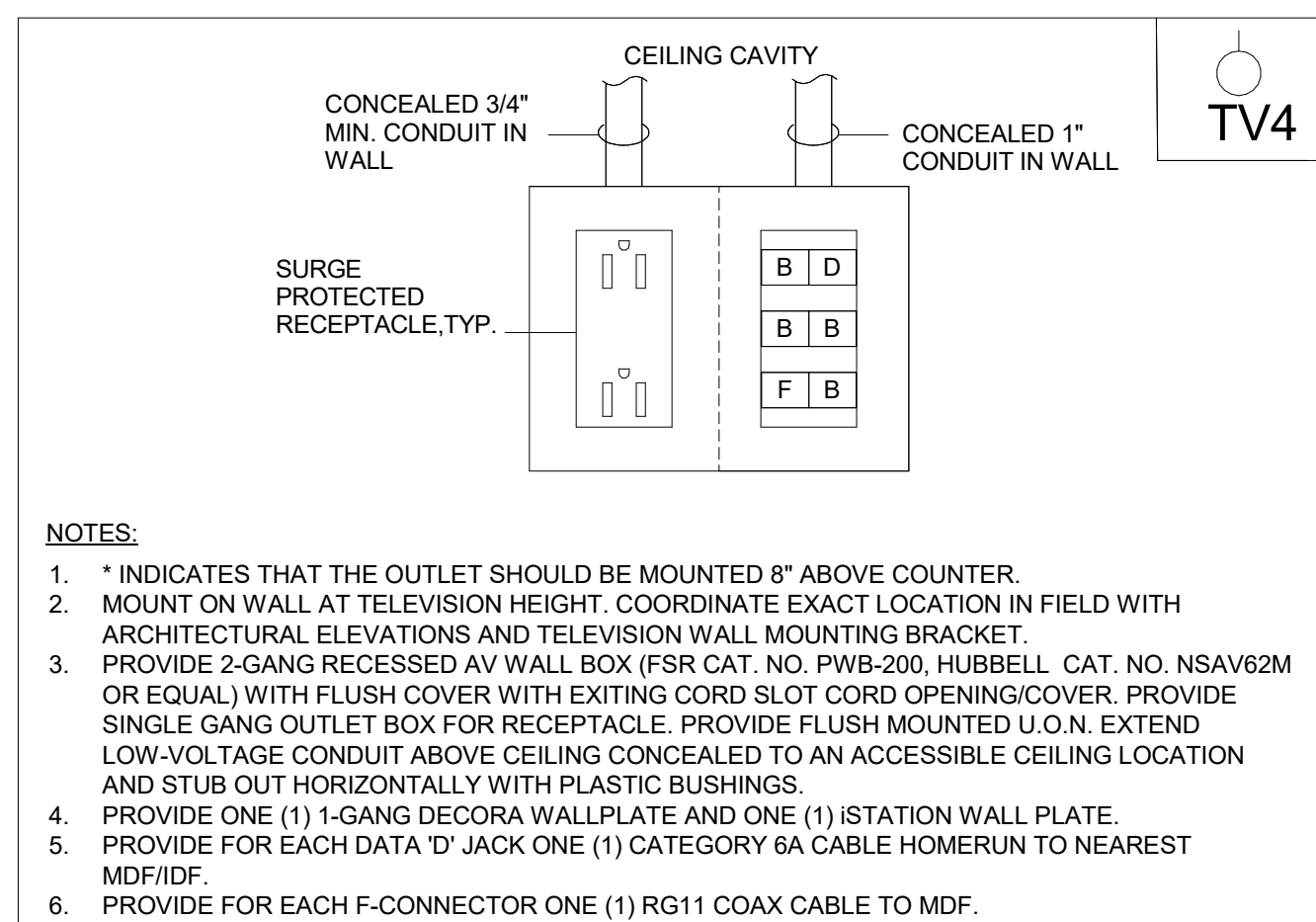
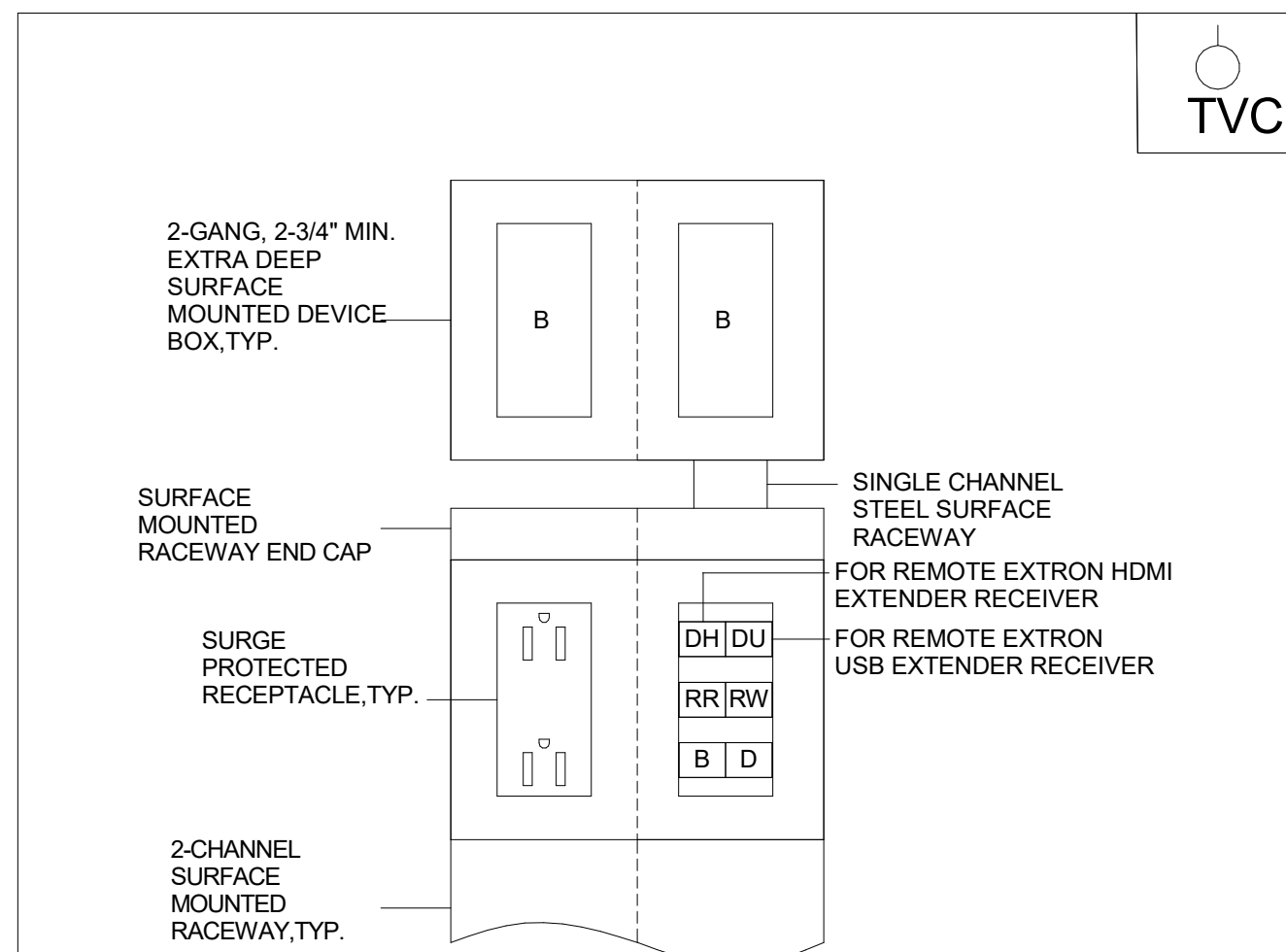
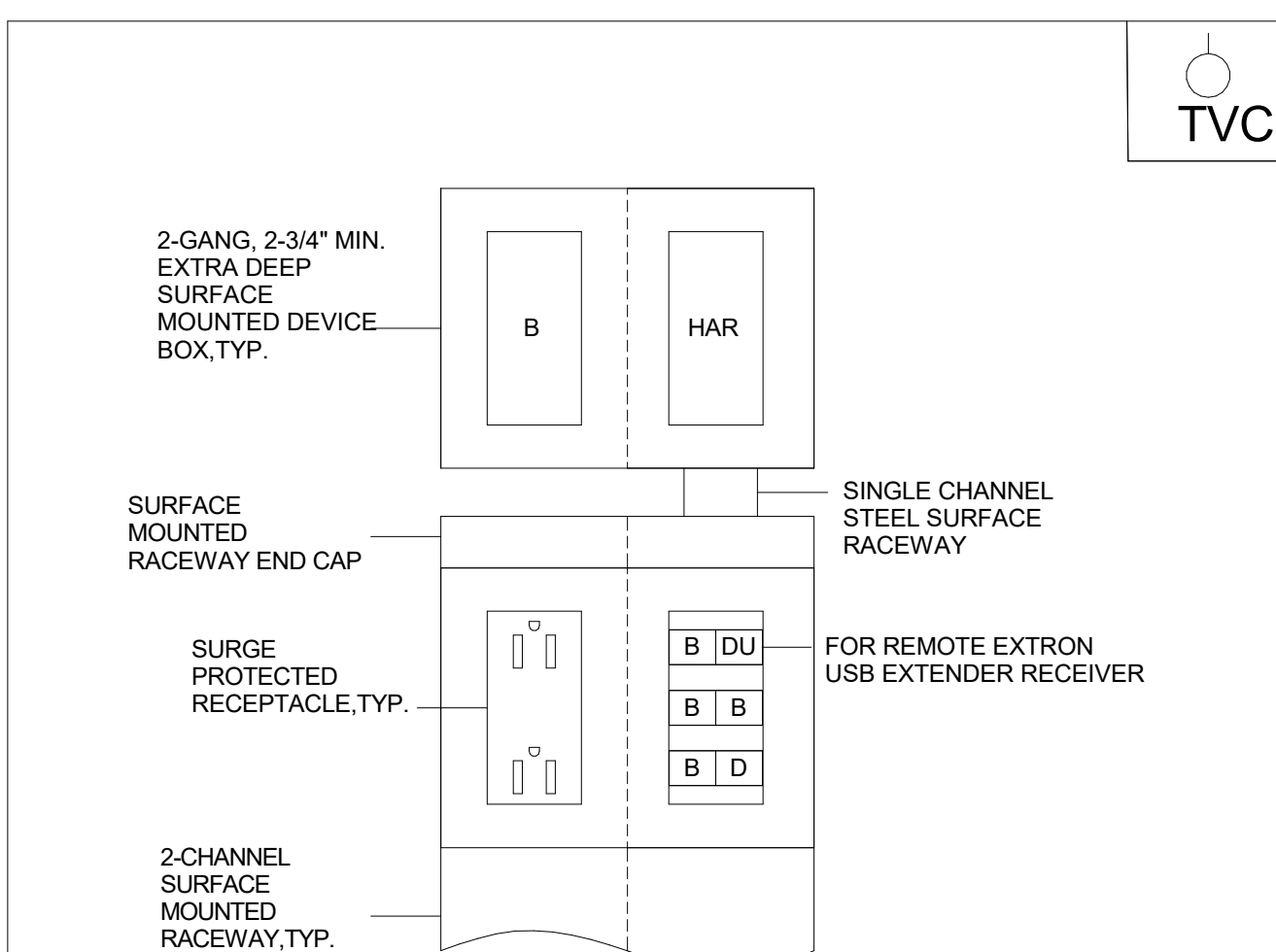
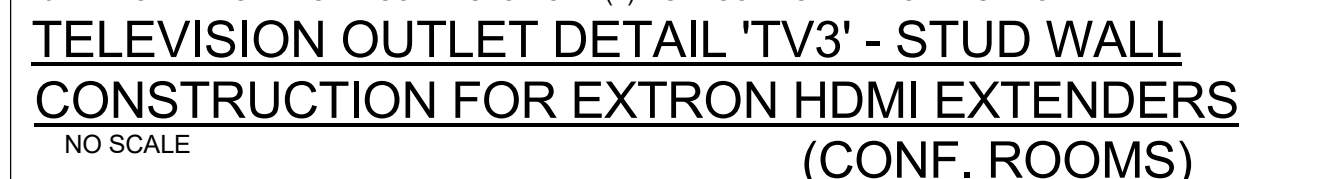
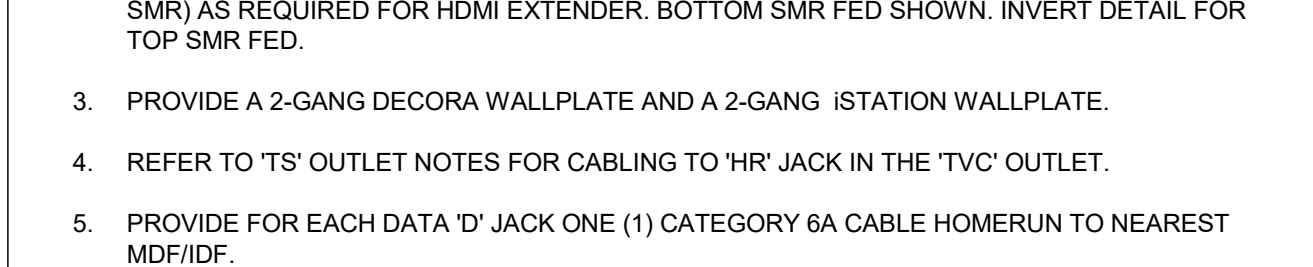
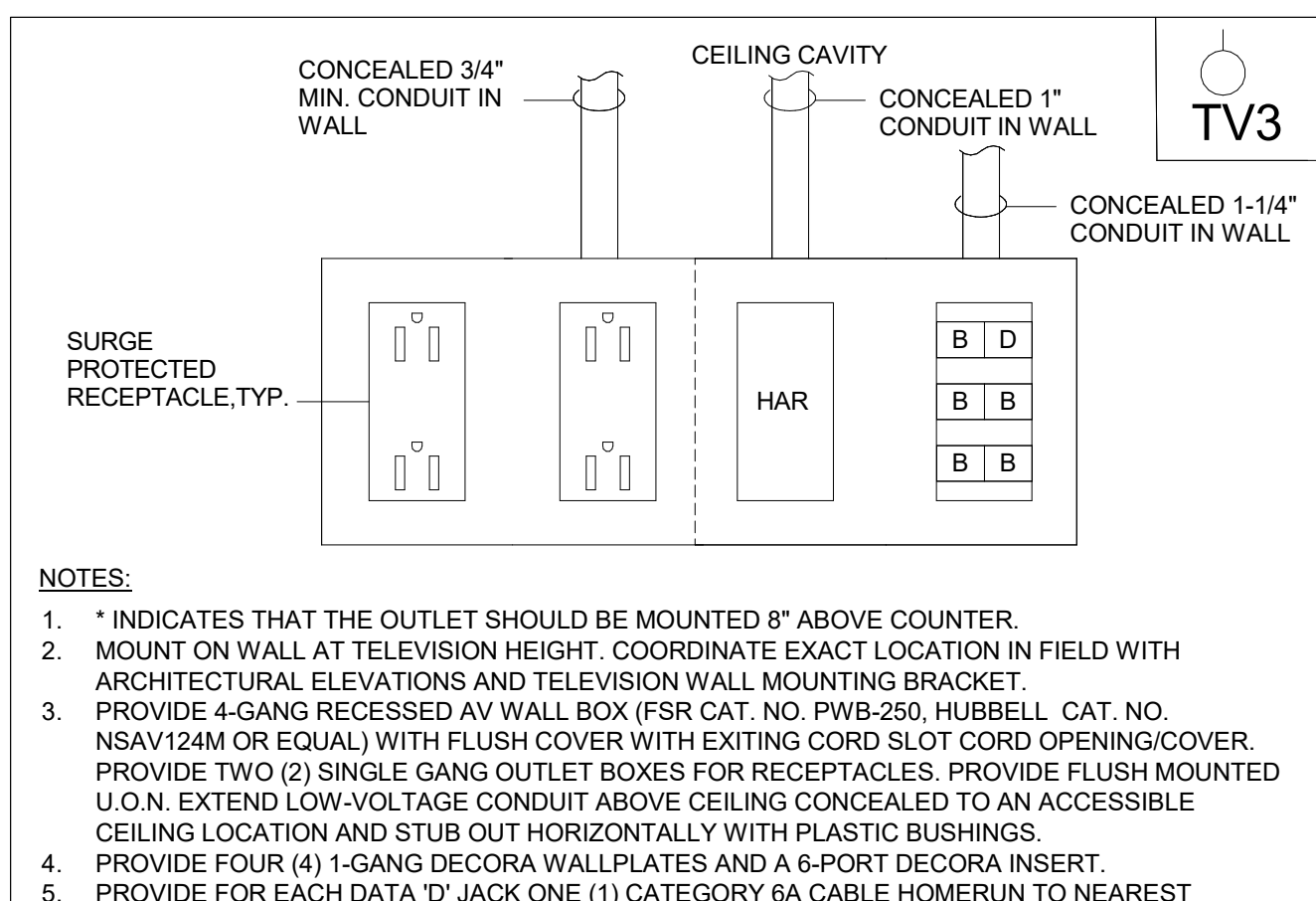
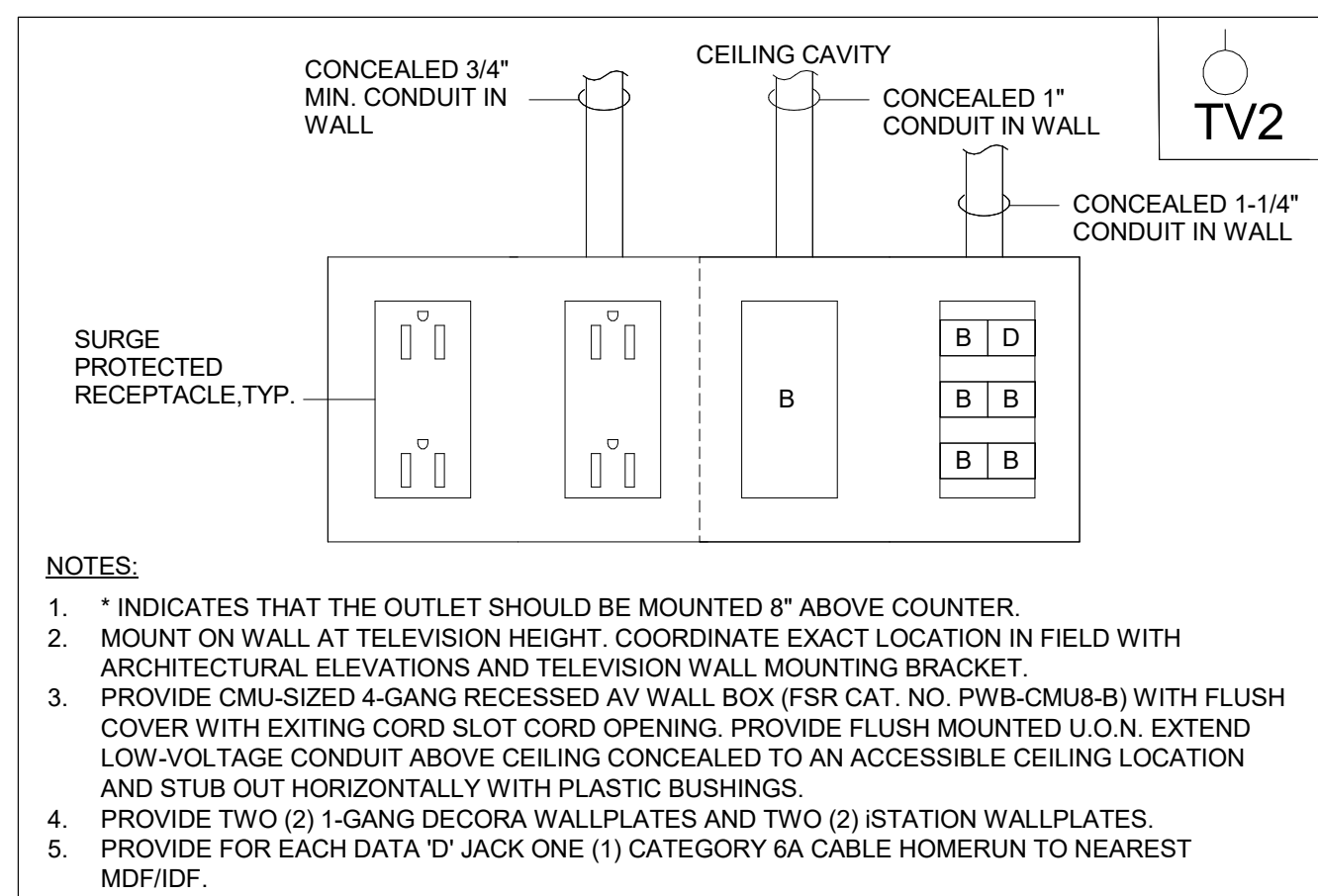
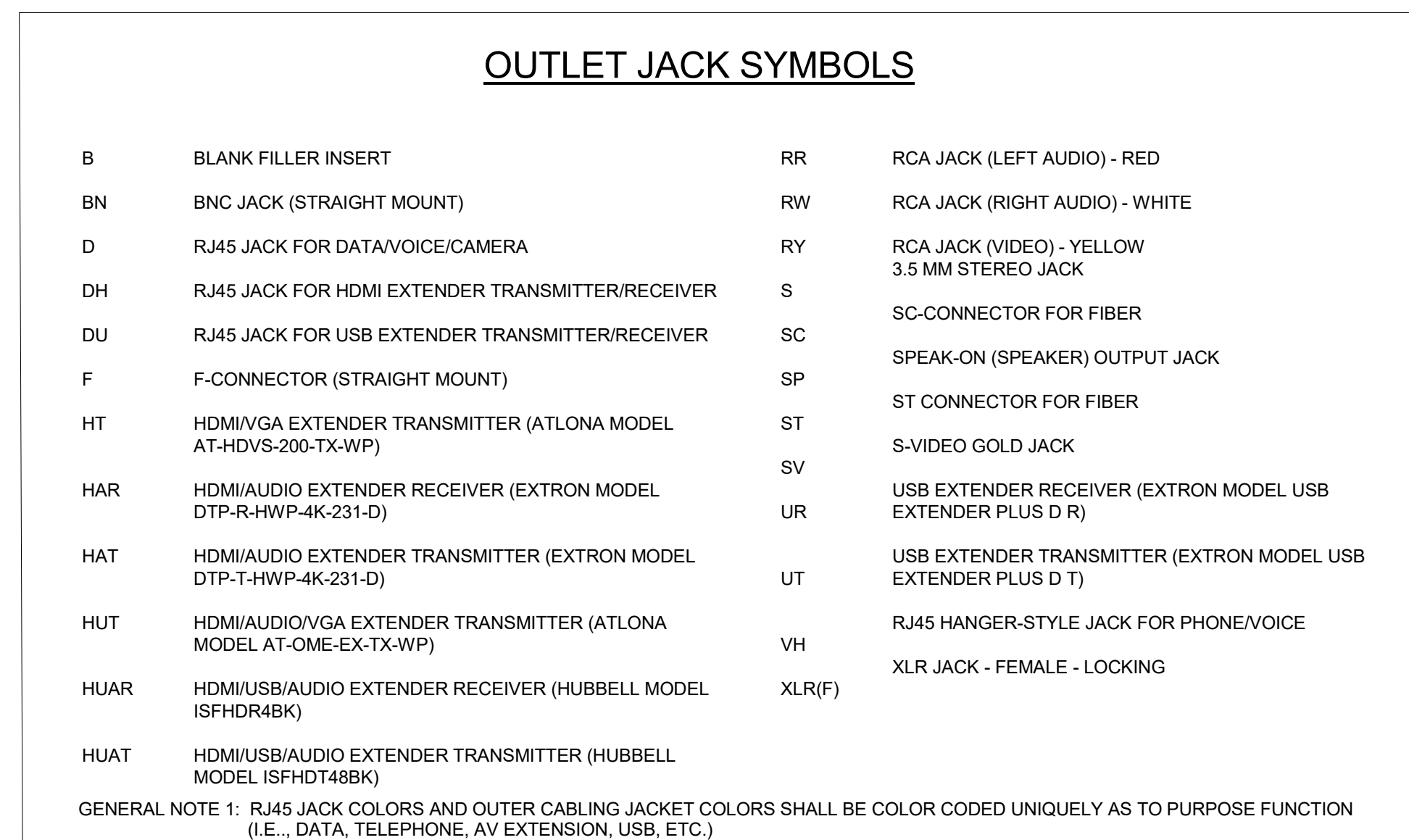
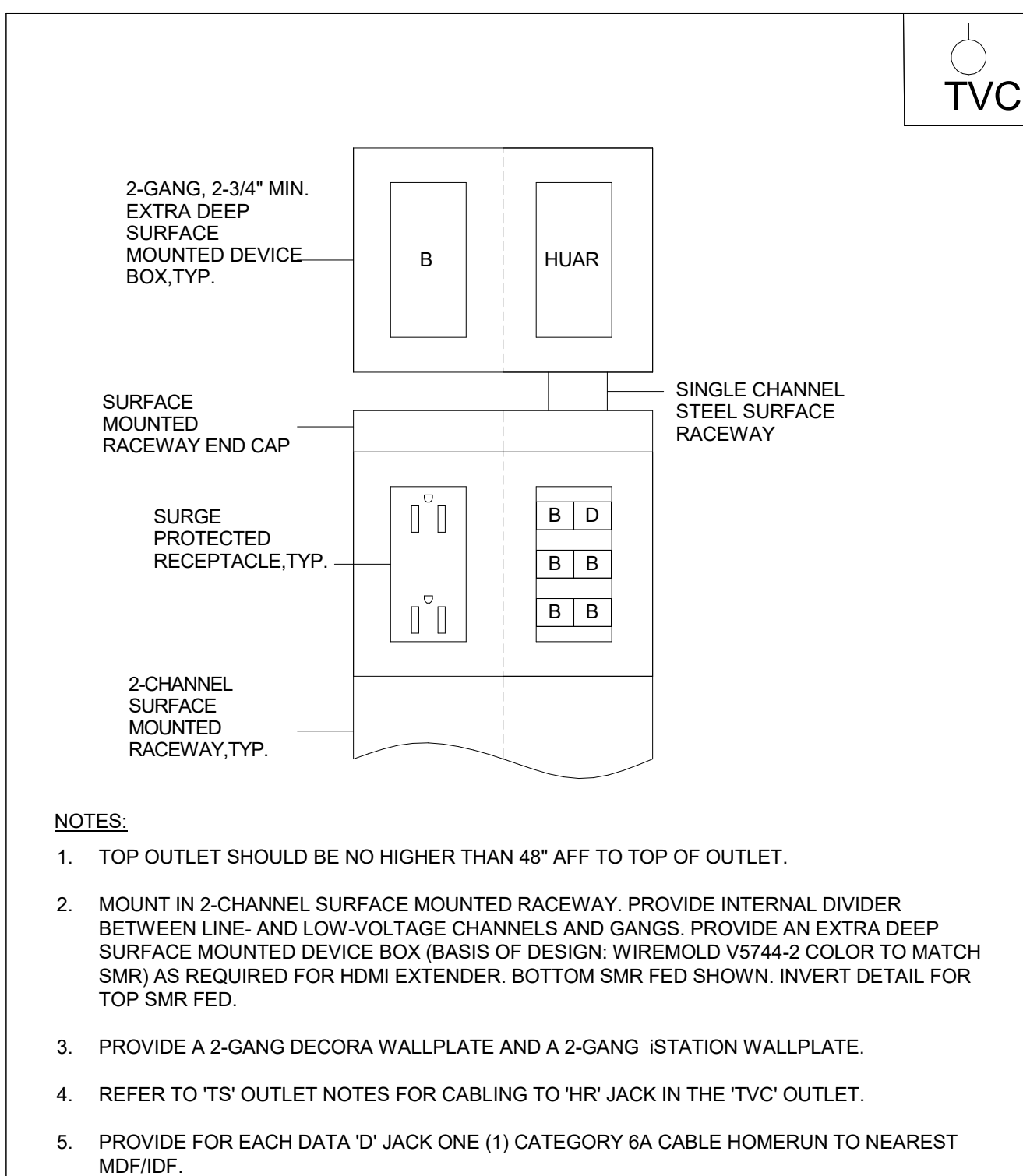
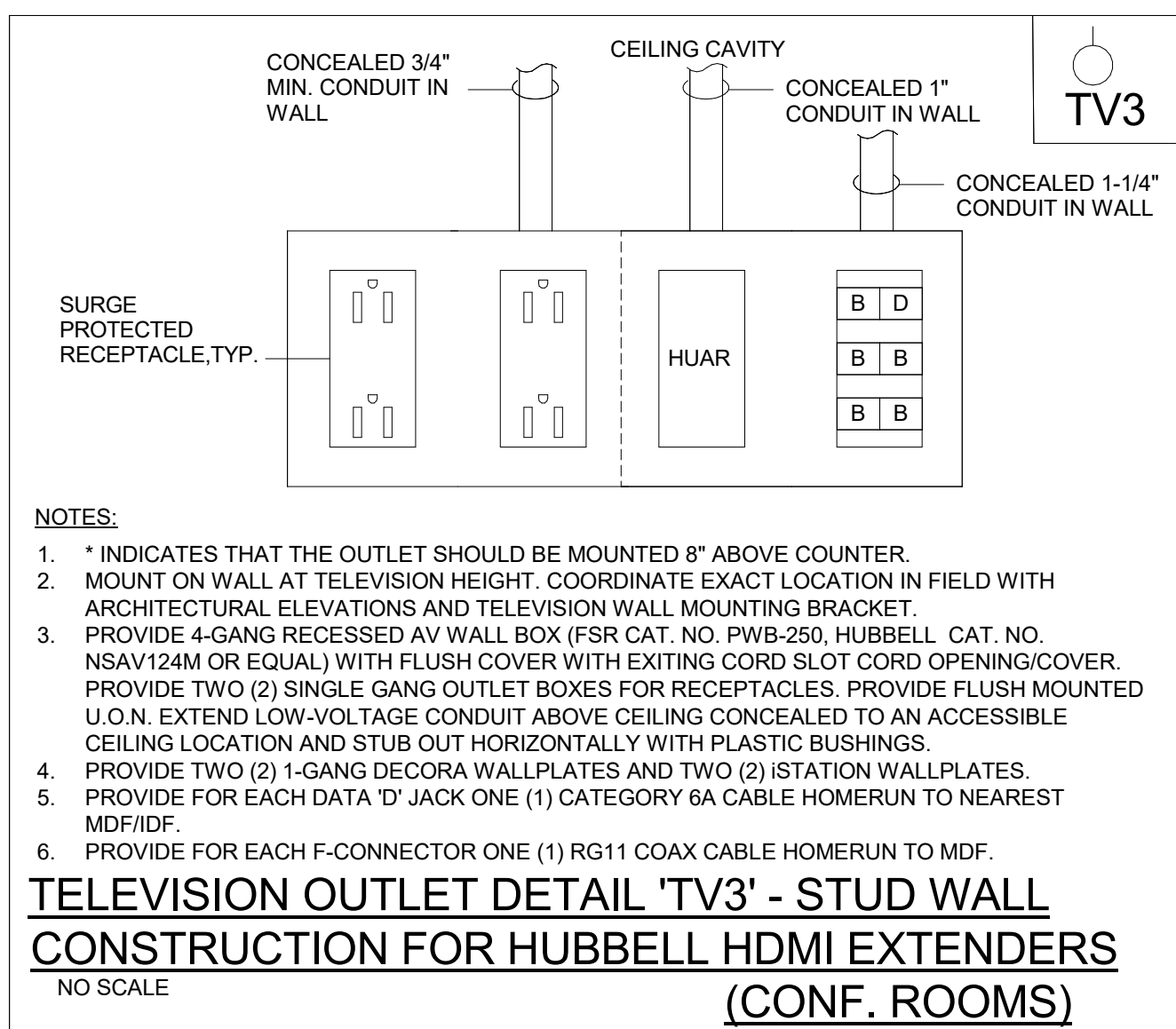
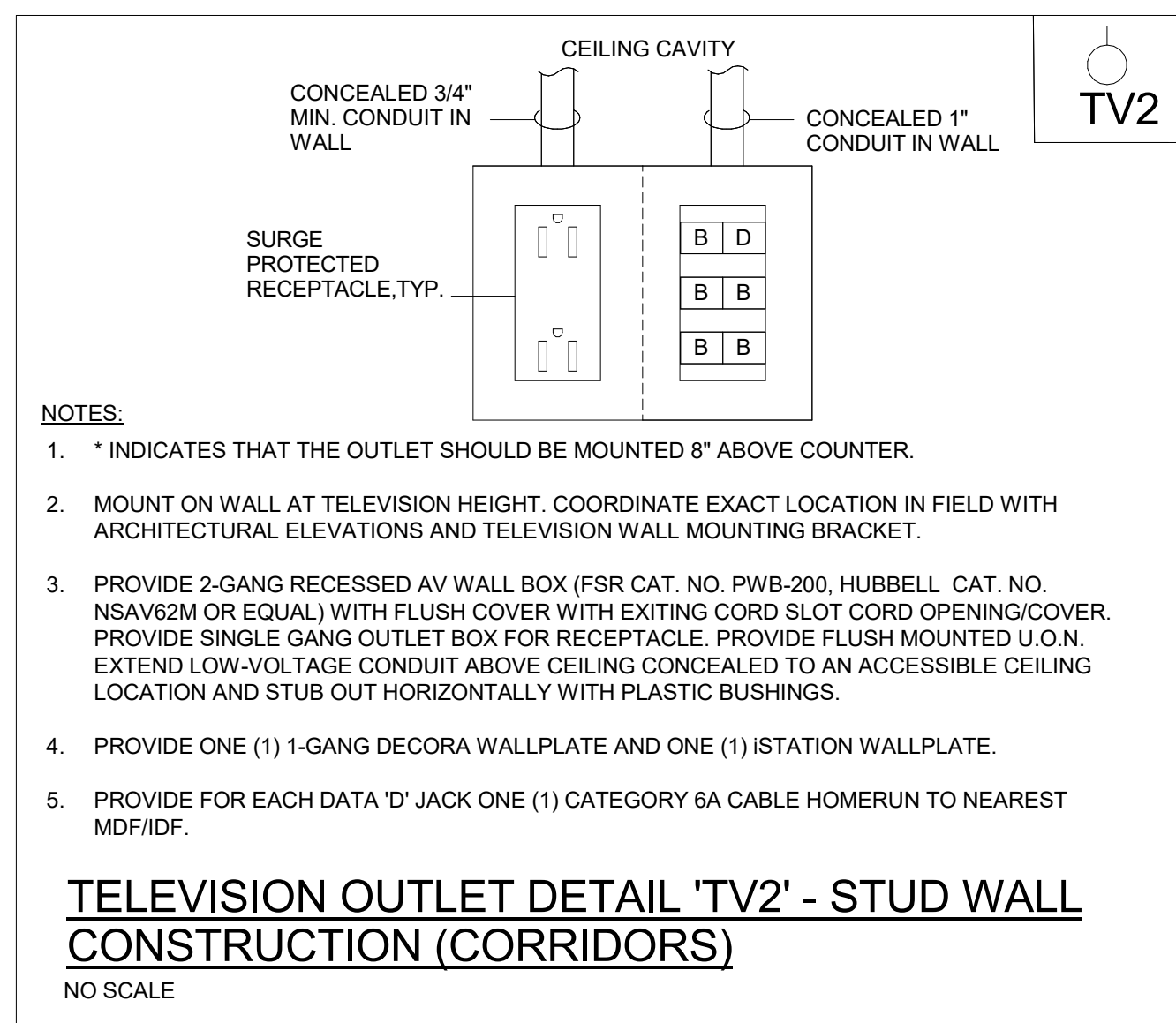
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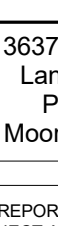


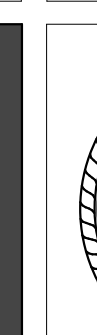


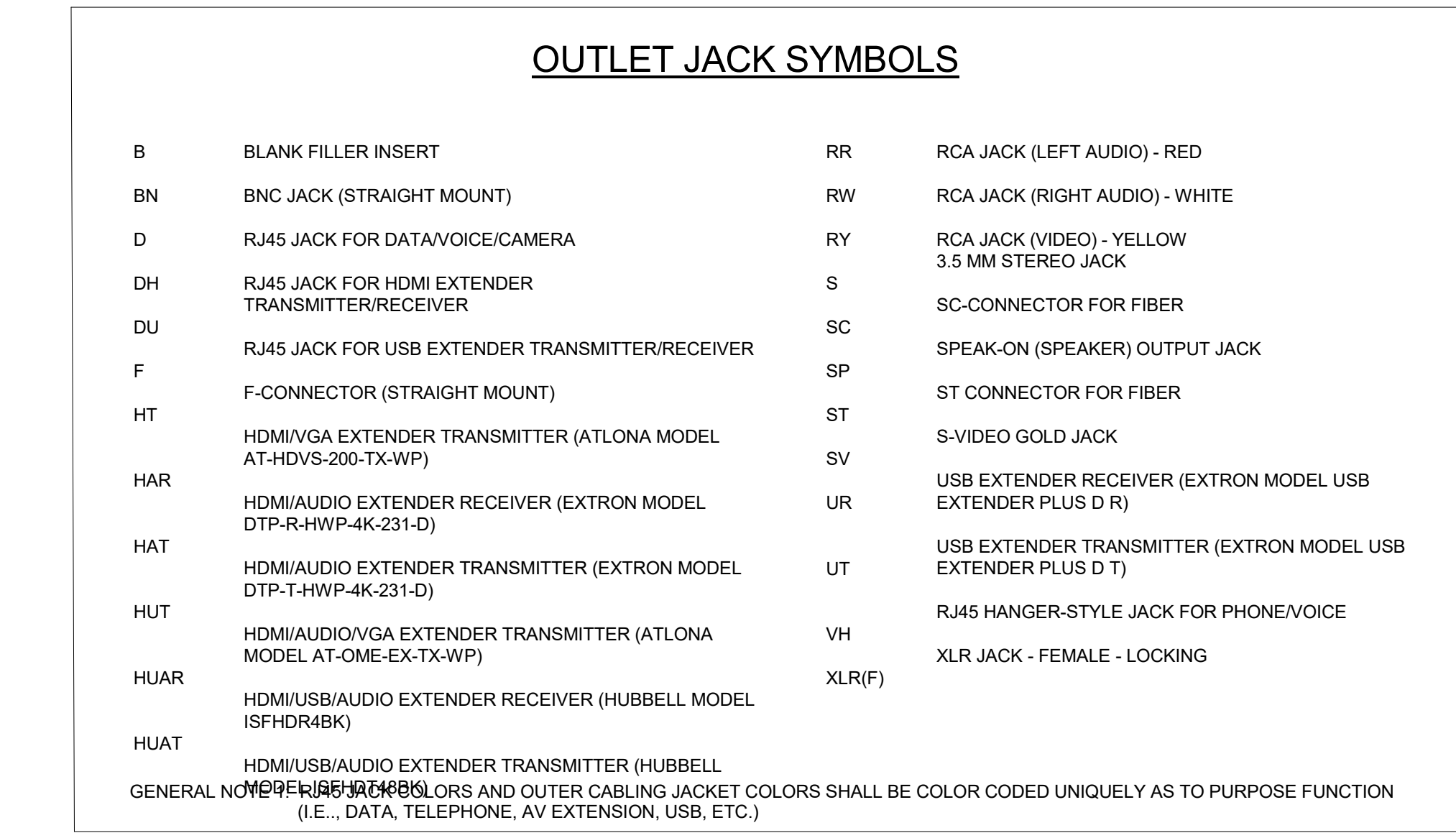
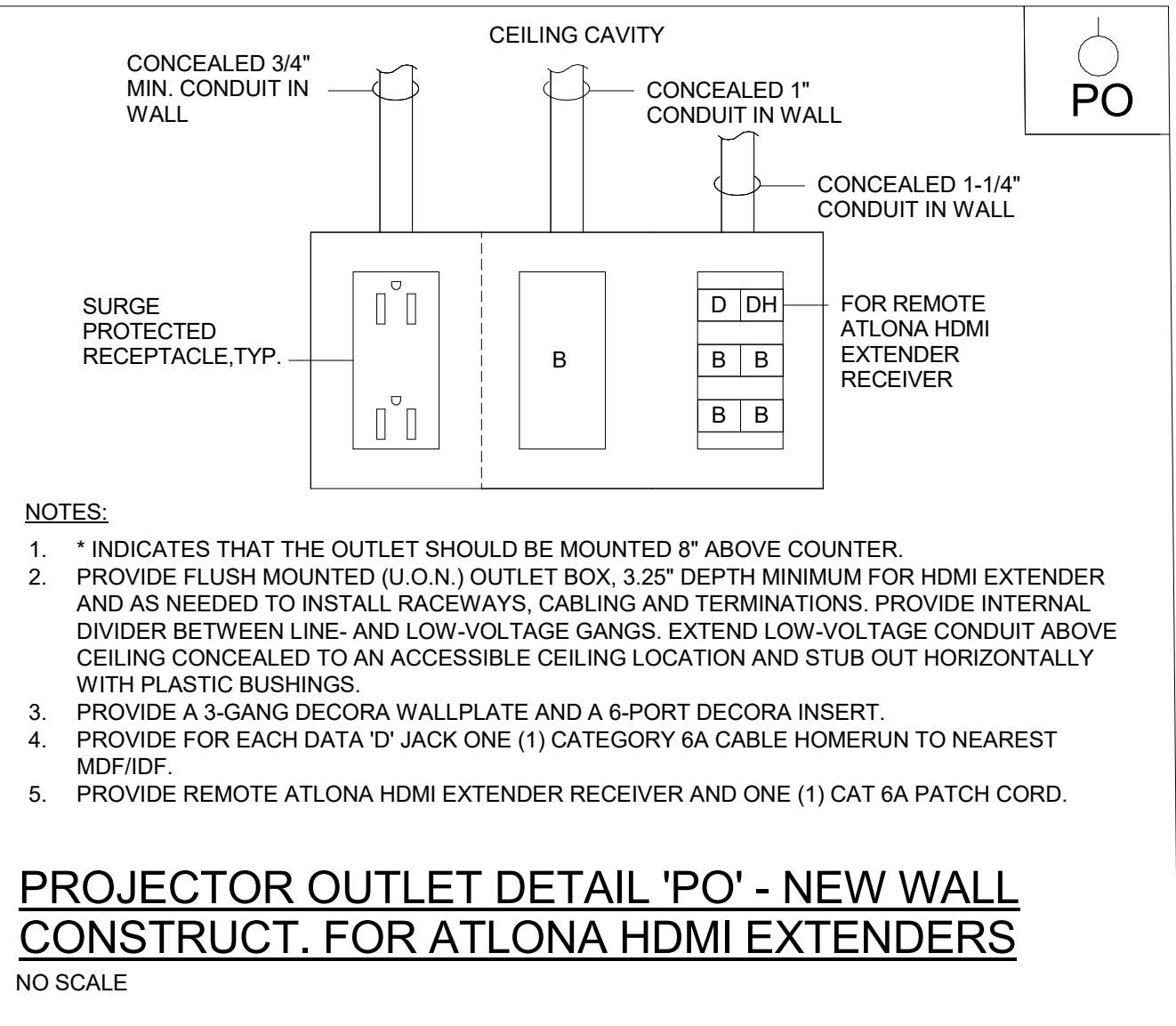
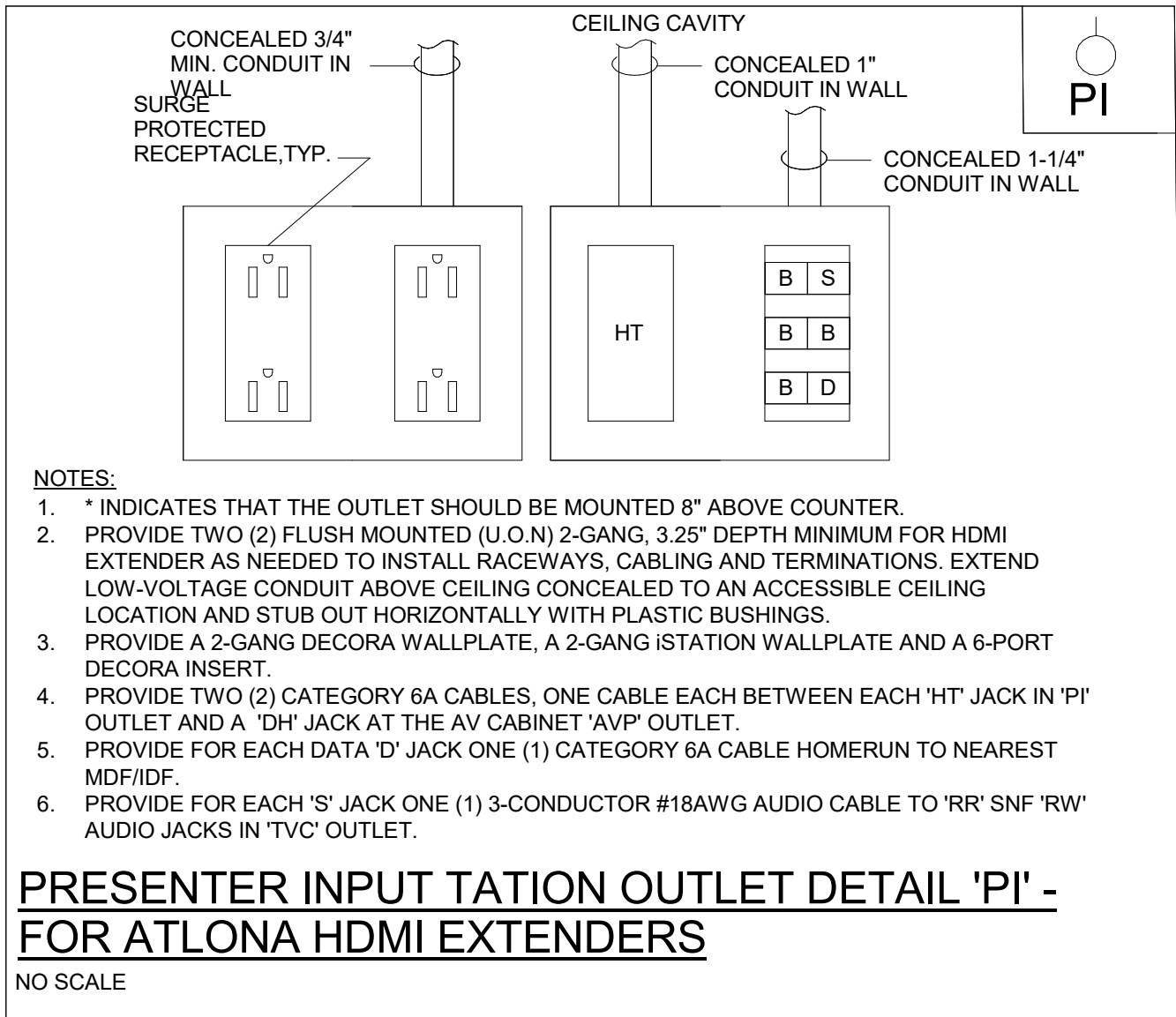
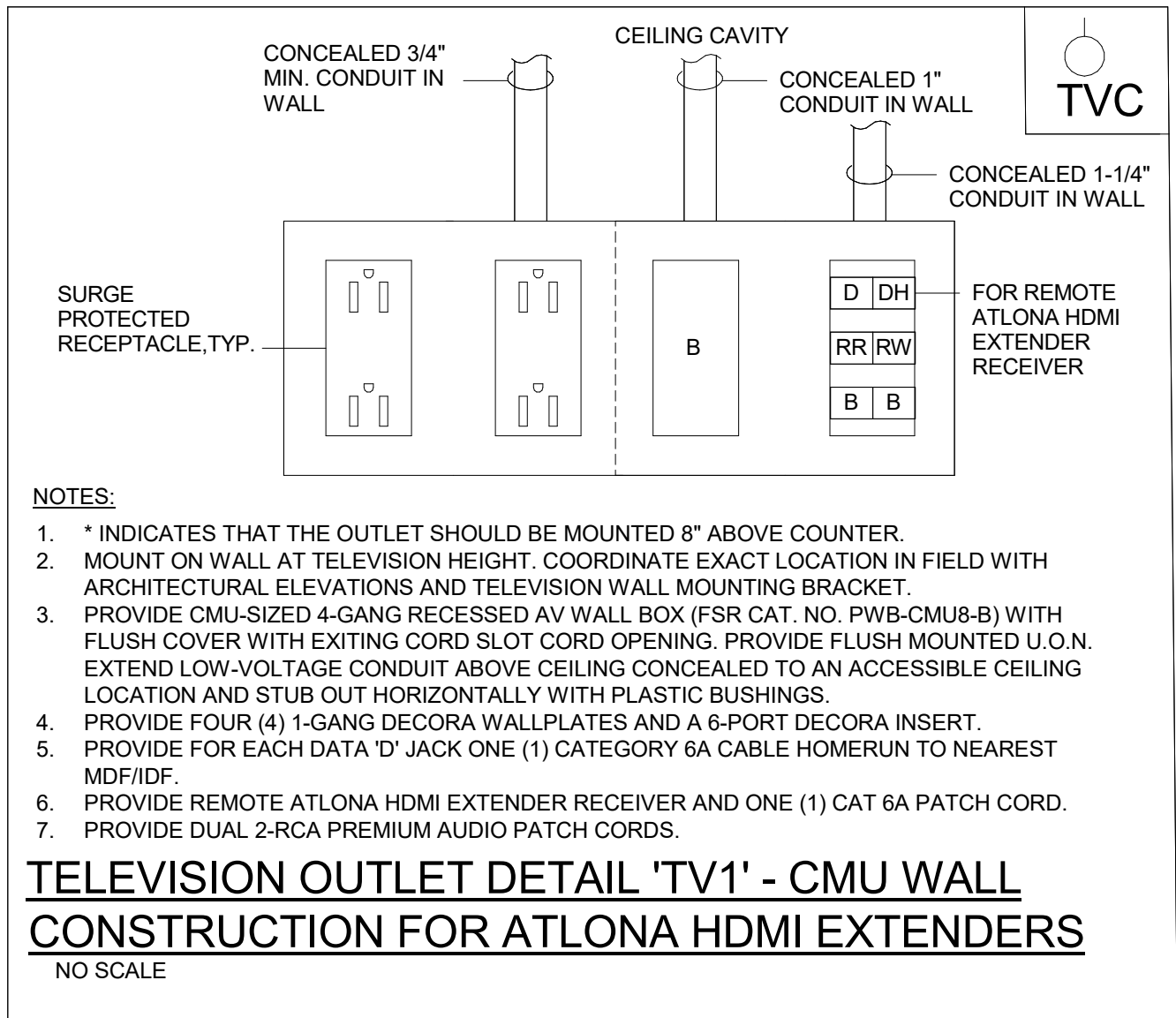
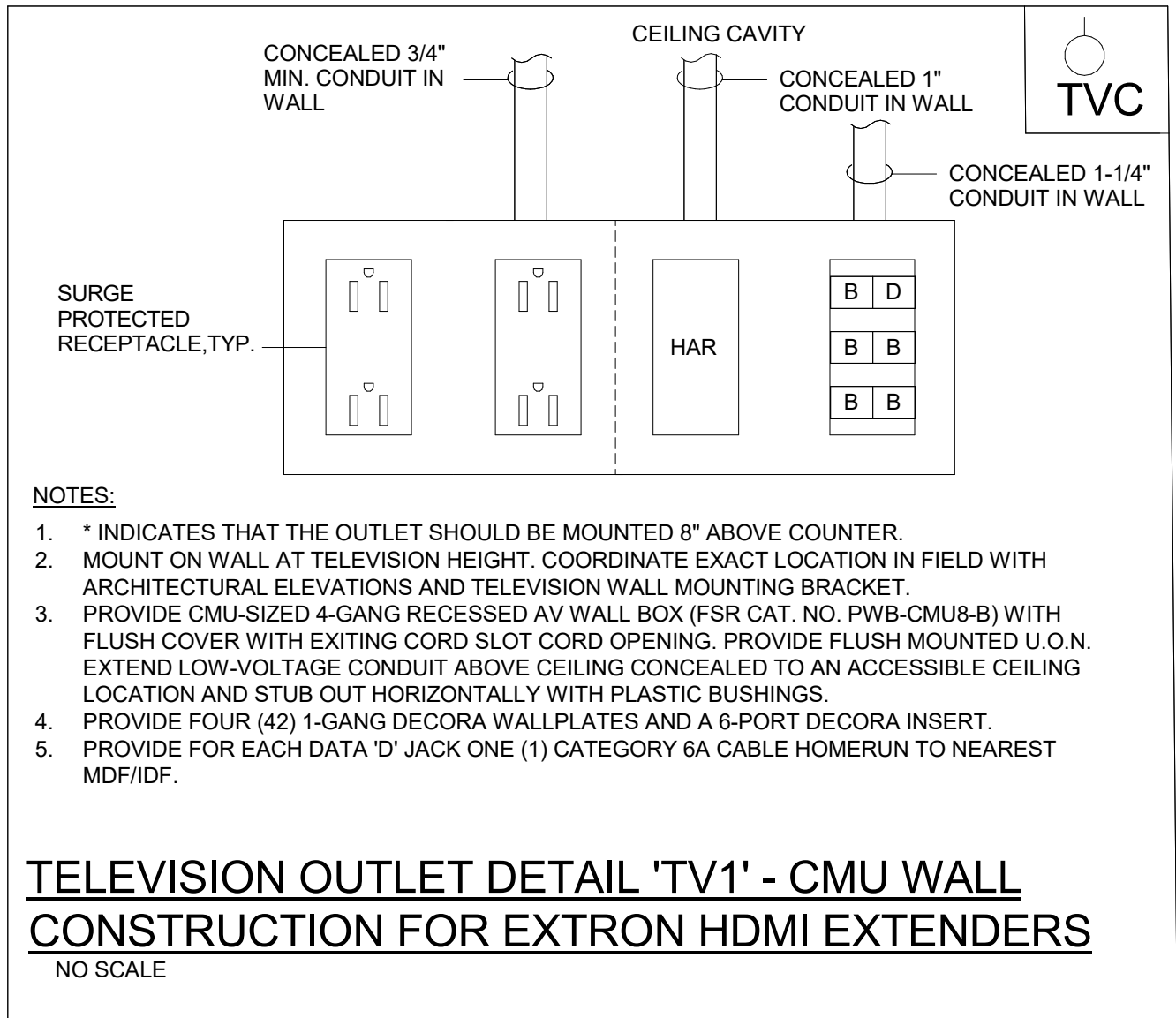
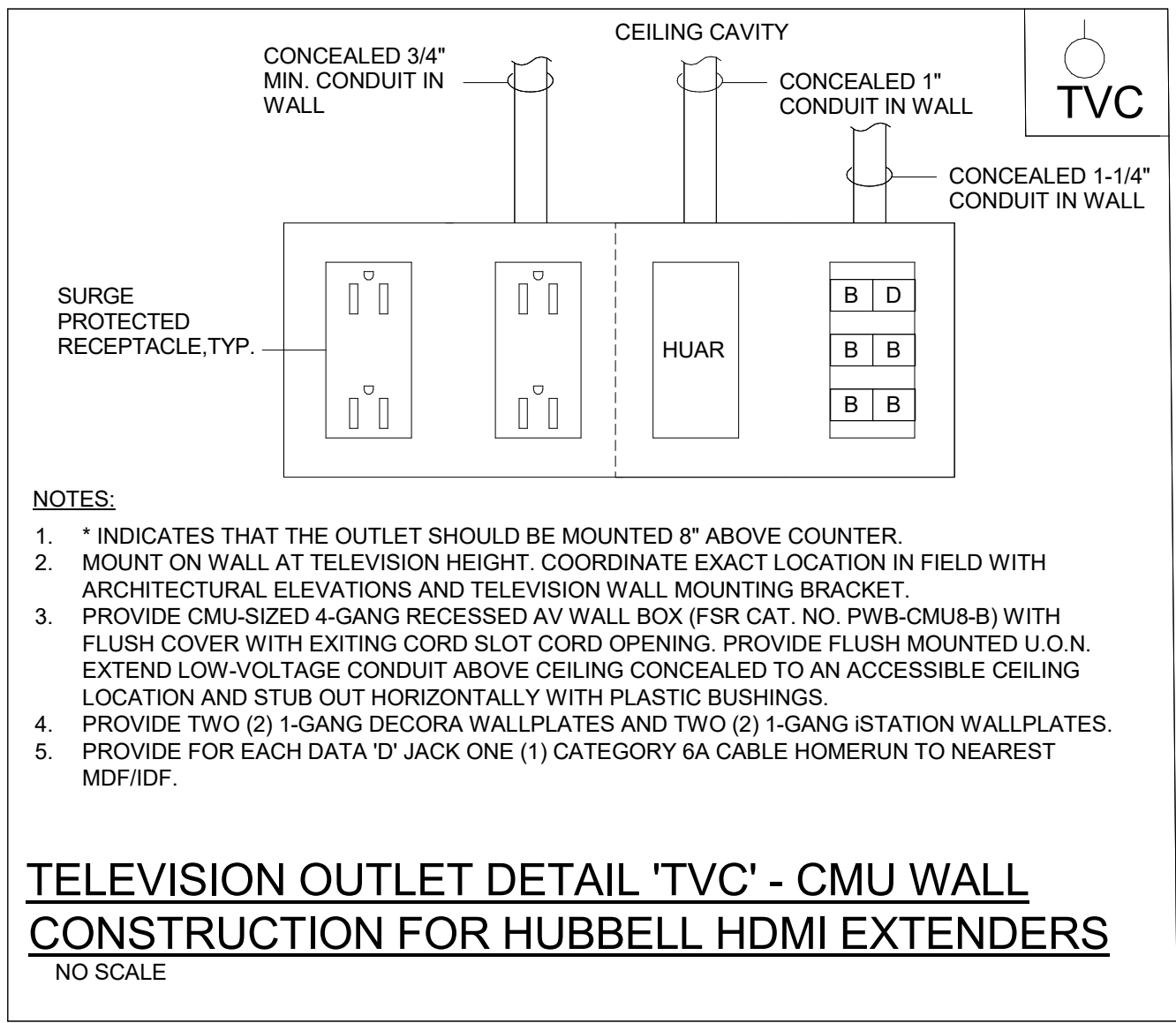
OUTLET JACK SYMBOLS			
B	BLANK FILLER INSERT	RR	RCA JACK (LEFT AUDIO) - RED
BN	BNC JACK (STRAIGHT MOUNT)	RW	RCA JACK (RIGHT AUDIO) - WHITE
D	RJ45 JACK FOR DATA/VOICE/CAMERA	RY	RCA JACK (VIDEO) - YELLOW 3.5 MM STEREO JACK
DH	RJ45 JACK FOR HDMI EXTENDER TRANSMITTER/RECEIVER	S	SC-CONNECTOR FOR FIBER
DU	RJ45 JACK FOR USB EXTENDER TRANSMITTER/RECEIVER	SC	SPEAK-ON (SPEAKER) OUTPUT JACK
F	F-CONNECTOR (STRAIGHT MOUNT)	SP	ST CONNECTOR FOR FIBER
HT	HDMI/VIDEO EXTENDER TRANSMITTER (ATLONA MODEL AT-HDVS-200-TX-WP)	ST	S-VIDEO GOLD JACK
HAR	HDMI/AUDIO EXTENDER RECEIVER (EXTRON MODEL DTP-R4-HWP-4K-231-D)	SV	USB EXTENDER RECEIVER (EXTRON MODEL USB EXTENDER PLUS D R)
HAT	HDMI/AUDIO EXTENDER TRANSMITTER (EXTRON MODEL DTP-T4-HWP-4K-231-D)	UT	USB EXTENDER TRANSMITTER (EXTRON MODEL USB EXTENDER PLUS D T)
HUT	HDMI/AUDIO EXTENDER TRANSMITTER (ATLONA MODEL AT-OME-EX-TX-WP)	VH	RJ45 HANGER-STYLE JACK FOR PHONE/VOICE
HUAR	HDMI/USB/AUDIO EXTENDER RECEIVER (HUBBELL MODEL ISFHDR4BK)	XL(RF)	XL RJ-45 - FEMALE - LOCKING
HUAT	HDMI/USB/AUDIO EXTENDER TRANSMITTER (HUBBELL MODEL ISFHDR4BK)		
GENERAL NOTE: ALL JACKS AND OUTER CABLING JACKET COLORS SHALL BE COLOR CODED UNIQUELY AS TO PURPOSE/FUNCTION (I.E., DATA, TELEPHONE, AV EXTENSION, USB, ETC.)			



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ELECTRICAL DETAILS		PROJECT 3758	
PLOT SCALE:		E9.4	
FILENAME: 24066			
DATE: MARCH 10, 2025			



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ELECTRICAL DETAILS		PROJECT 3758	
PLOT SCALE:			
FILENAME: 24066			
DATE: MARCH 10, 2025	E9.5		



OUTLET JACK SYMBOLS			
B	BLANK FILLER INSERT	RR	RCA JACK (LEFT AUDIO) - RED
BN	BNC JACK (STRAIGHT MOUNT)	RW	RCA JACK (RIGHT AUDIO) - WHITE
D	RJ45 JACK FOR DATA/VOICE/CAMERA	RY	RCA JACK (VIDEO) - YELLOW
DH	RJ45 JACK FOR HDMI EXTENDER TRANSMITTER/RECEIVER	S	3.5 MM STEREO JACK
DU	RJ45 JACK FOR USB EXTENDER TRANSMITTER/RECEIVER	SC	SC-CONNECTOR FOR FIBER
F	F-CONNECTOR (STRAIGHT MOUNT)	SP	SPEAK-ON (SPEAKER) OUTPUT JACK
HT	HDMI/VIDEO EXTENDER TRANSMITTER (ATLONA MODEL AT-HDVS-200-TX-WP)	ST	ST CONNECTOR FOR FIBER
HAR	HDMI/AUDIO EXTENDER RECEIVER (EXTRON MODEL DTP-R-HWP-4K-231-D)	SV	S-VIDEO GOLD JACK
HAT	HDMI/AUDIO EXTENDER TRANSMITTER (EXTRON MODEL DTP-T-HWP-4K-231-D)	UR	USB EXTENDER RECEIVER (EXTRON MODEL USB EXTENDER PLUS D R)
HUT	HDMI/AUDIO/VIDEO EXTENDER TRANSMITTER (ATLONA MODEL AT-OME-EX-TX-WP)	UT	USB EXTENDER TRANSMITTER (EXTRON MODEL USB EXTENDER PLUS D T)
HUAR	HDMI/USB/AUDIO EXTENDER RECEIVER (HUBBELL MODEL ISFH04BK)	VH	RJ45 HANGER-STYLE JACK FOR PHONE/VOICE
HUAT	HDMI/USB/AUDIO EXTENDER TRANSMITTER (HUBBELL MODEL AT-HDVS-200-TX-WP)	XLR(F)	XLR JACK - FEMALE - LOCKING
GENERAL NOTE: ALL CABLES AND OUTER CABLING JACKET COLORS SHALL BE COLOR CODED UNIQUELY AS TO PURPOSE FUNCTION (I.E., DATA, TELEPHONE, AV EXTENSION, USB, ETC.)			



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NO.	DATE	DESCRIPTION OF CHANGES

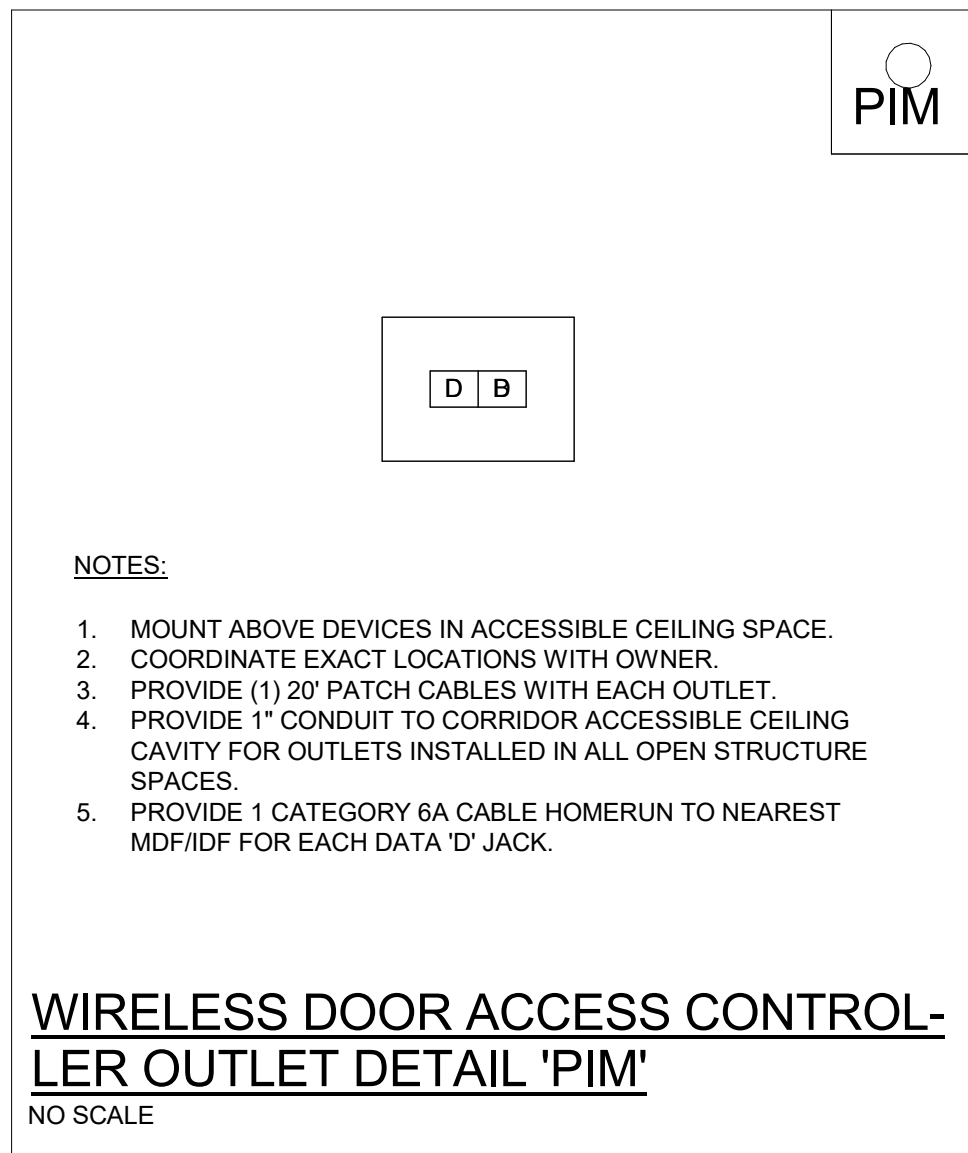
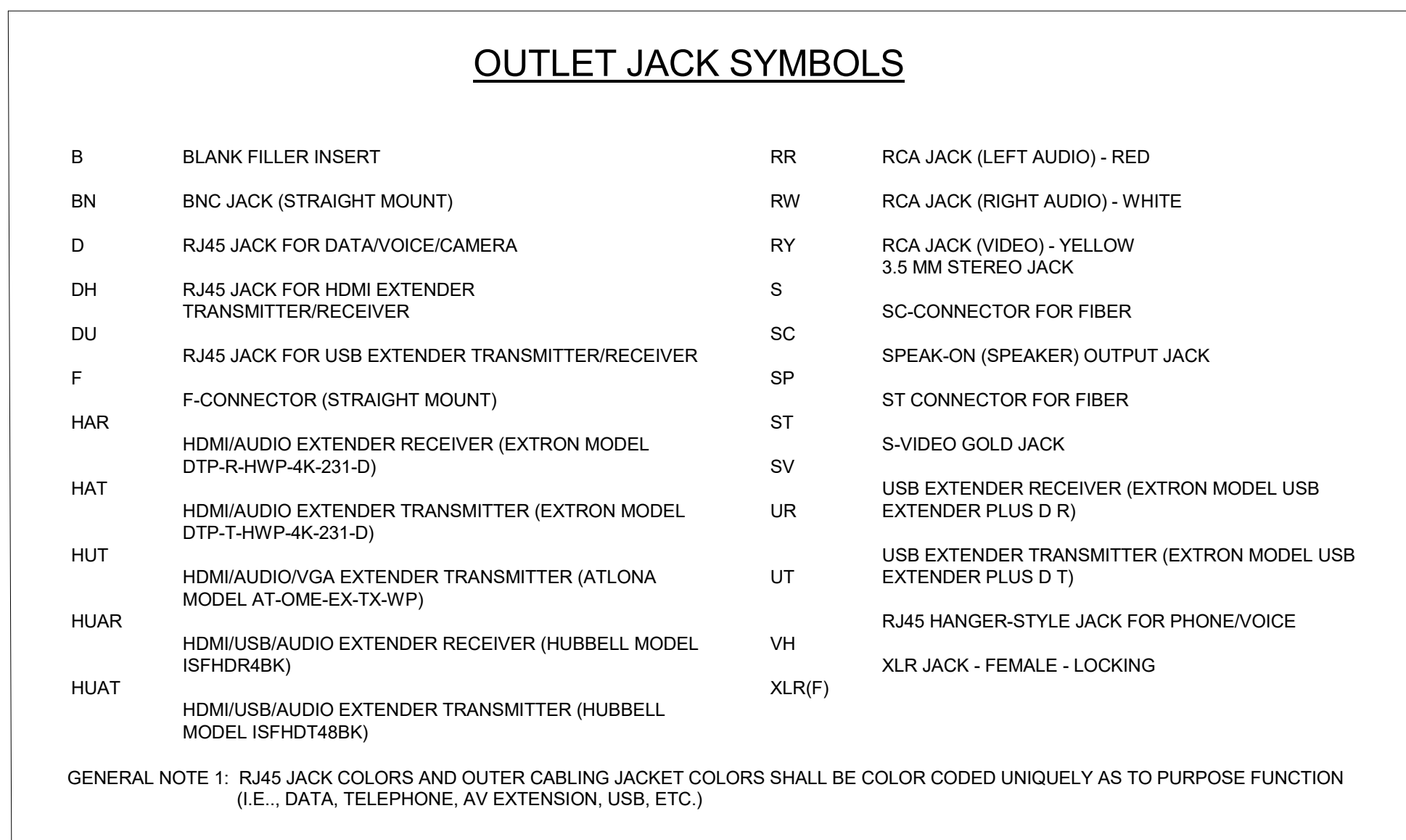
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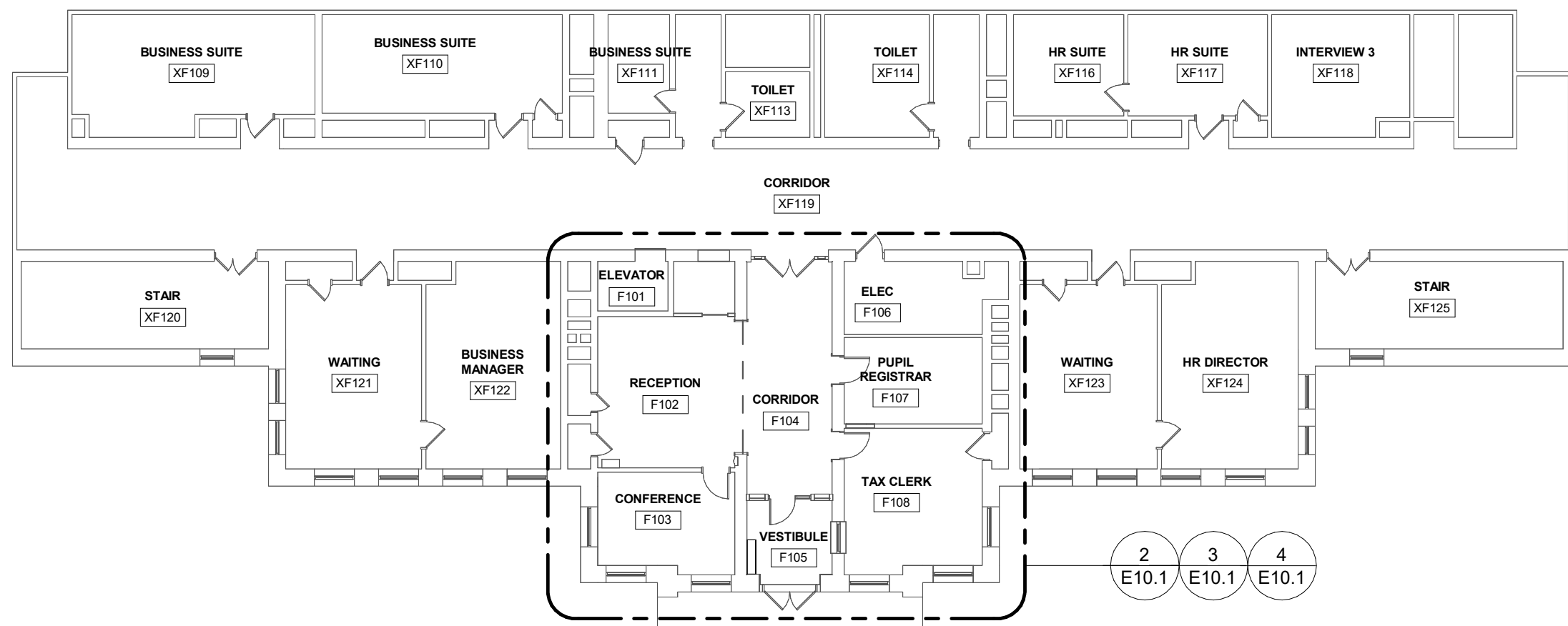
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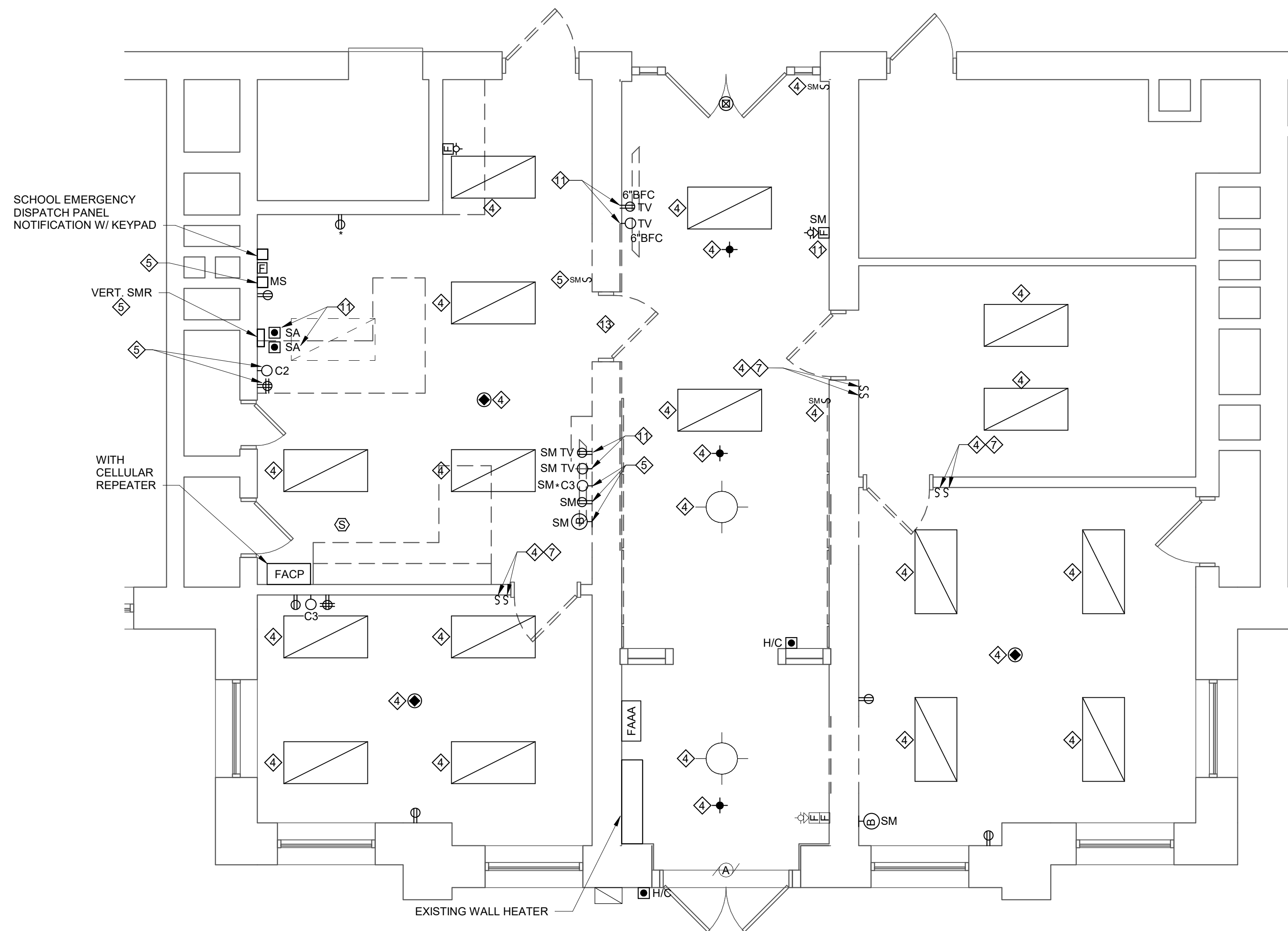


ELECTRICAL DETAILS	PROJECT 3758
PLOT SCALE:	E9.6
FILENAME: 24066	
DATE: MARCH 10, 2025	

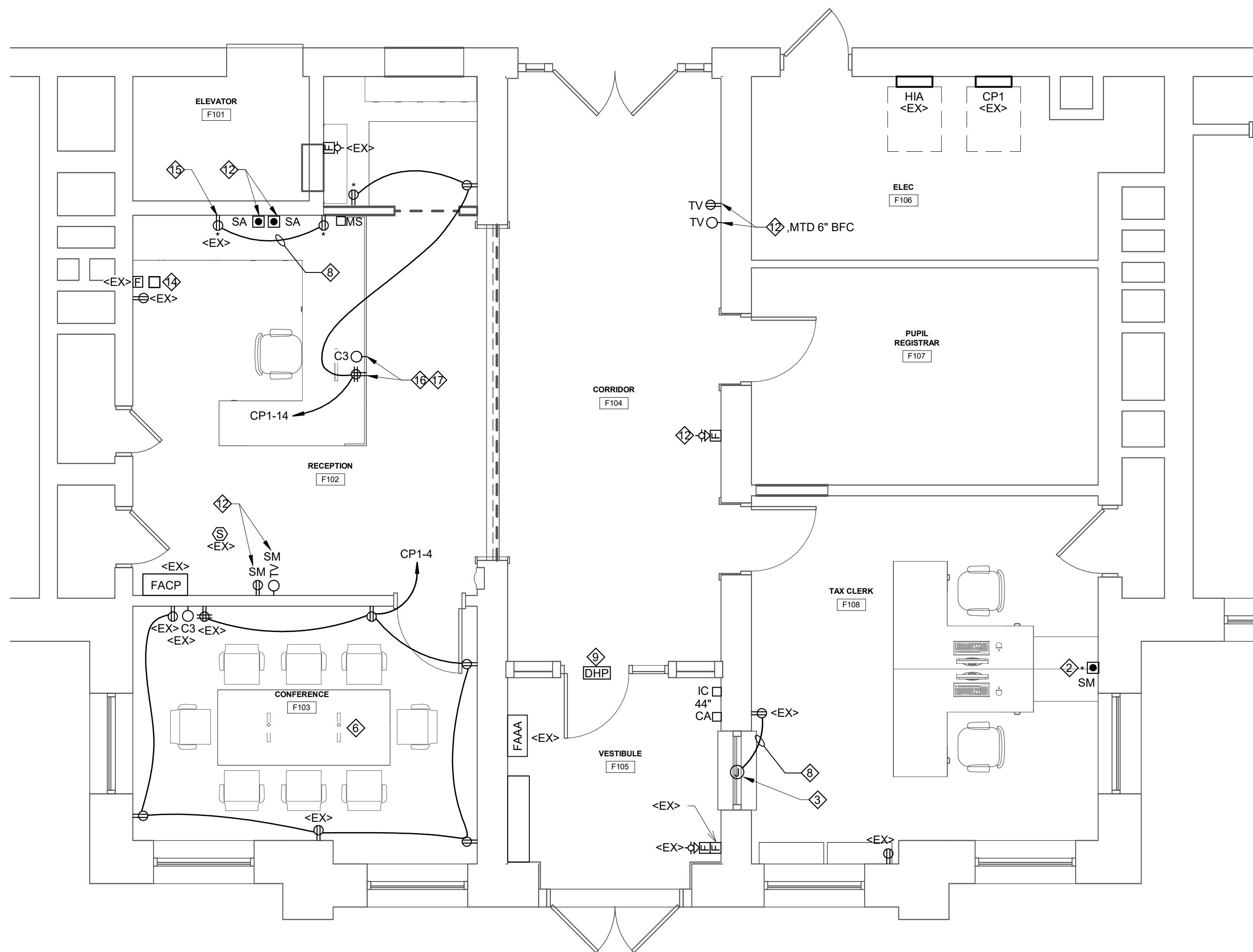




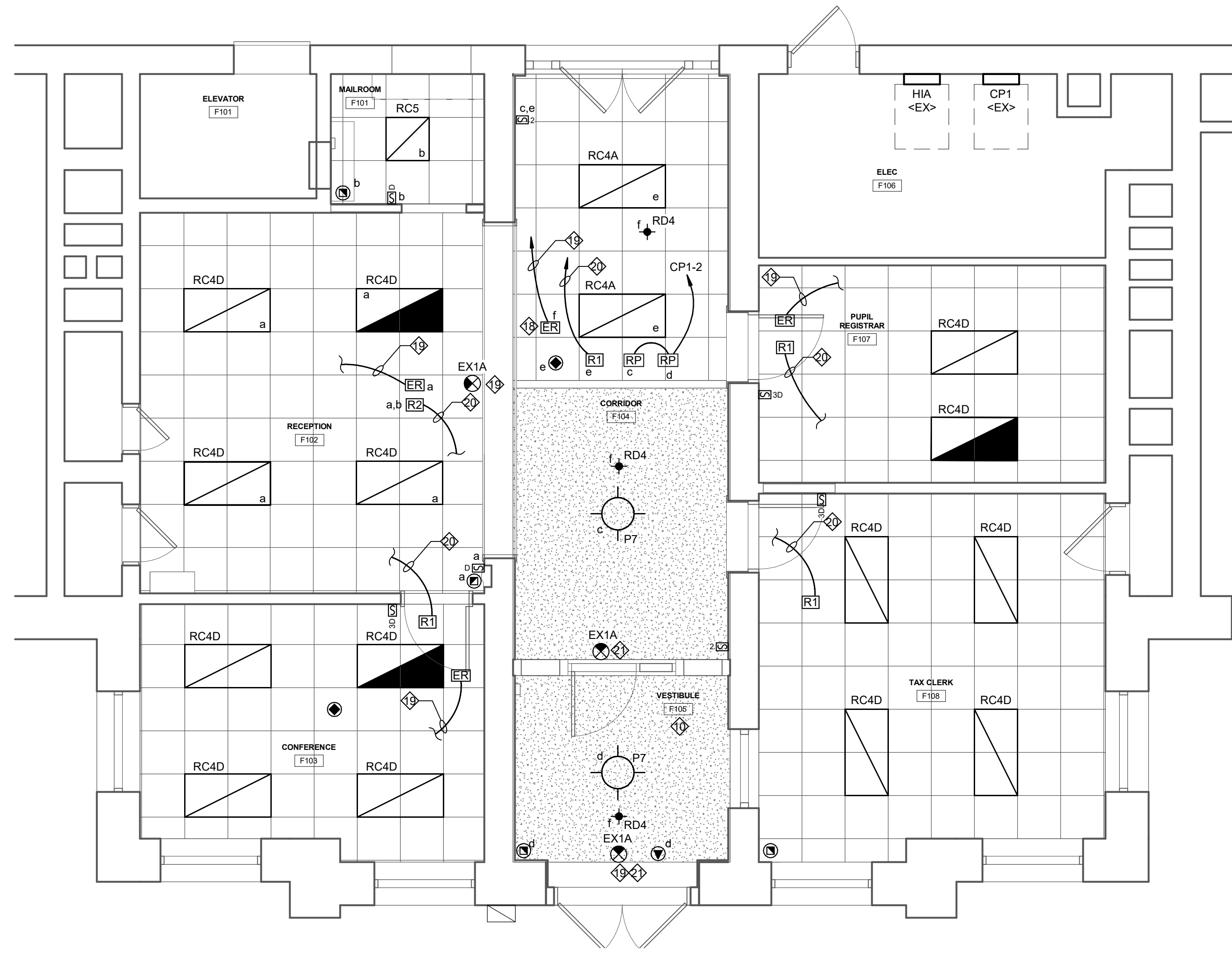
1 OAKMONT DAO - FLOOR PLAN
1/16" = 1'-0"



2 DAO DEMOLITION
1/4" = 1'-0"



3 DAO POWER AND SYSTEMS
1/4" = 1'-0"



4 DAO LIGHTING
1/4" = 1'-0"

GENERAL NOTES:

1. ALL EXISTING ELECTRICAL ITEMS AND THEIR ASSOCIATED APPURTENANCES SHALL REMAIN AND BE MAINTAINED IN SERVICE UNLESS OTHERWISE NOTED. EXISTING ITEMS SHOWN, BUT NOT OTHERWISE NOTED, ARE SHOWN FOR REFERENCE ONLY.

DRAWING NOTES:

1. PROVIDE DOOR RELEASE FROM MASTER INTERCOM STATION IN RECEPTION F102 AND PUSH BUTTON DOOR RELEASE STATION IN TAX CLERK F108.
2. DOOR RELEASE PUSH BUTTON STATION FOR DOOR BETWEEN VESTIBULE F105 AND CORRIDOR F104.
3. POWER FOR THROUGH WALL TRANSACTION WINDOW WITH AUDIO.
4. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, LIGHTING CONTROLS, AND OCCUPANCY SENSORS IN ROOM. EXISTING ROOM LIGHTING BRANCH CIRCUIT SHALL BE REUSED. PATCH CEILINGS AND WALLS AND PREPARE FOR NEW FINISHES WHERE ITEMS ARE REMOVED.
5. DISCONNECT AND REMOVE ITEM AND ITS ASSOCIATED WIRING AND RACEWAY.
7. EXISTING LIGHT SWITCH OUTLET BOX TO REMAIN. PROVIDE BLANK WALLPLATE INSERT FOR UNUSED OPENING.
8. CONNECT TO EXISTING ROOM RECEPTACLE BRANCH CIRCUIT.
9. WIRING TO DOOR HARDWARE SHALL BE INSTALLED IN SURFACE MOUNTED RACEWAY.
10. CONNECT PENDANT LIGHT AND LIGHTING CONTROLS IN VESTIBULE F105 TO ROOM CONTROLLER(S) IN CORRIDOR F104.
11. RELOCATE EXISTING SURFACE MOUNTED ELECTRICAL ITEM TO LOCATION SHOWN ON PARTIAL PLAN 3. REROUTE AND EXTEND EXISTING WIRING AS REQUIRED AND REINSTALL IN NEW SURFACE MOUNTED OUTLET BOX AND RACEWAY.
12. RELOCATED ELECTRICAL ITEM. REFER TO DWG NOTE 11.
13. DISCONNECT AND REMOVE ELECTRIC STRIKE AND DOOR HARDWARE ACCESS CONTROL.
14. EXISTING SCHOOL EMERGENCY DISPATCH PANEL NOTIFICATION WITH KEYPAD TO REMAIN.
15. REPLACE RECEPTACLE AND WALLPLATE.
16. CONCEAL WIRING IN CASEWORK/FURNITURE.
17. DATA CABLES SHALL BE INSTALLED IN 1" CONDUIT TO ABOVE ACCESSIBLE CEILING LOCATION. ASSUME PATCH PANEL WITHIN 250 CABLE LENGTH. EXACT LOCATION TO BE DETERMINED IN FIELD WITH OWNER.
18. WIRE TO ILLUMINATE ZONE "F" DOWNLIGHTS ONLY WHEN NORMAL POWER IS UNAVAILABLE. OTHERWISE, FIXTURES SHOULD BE OFF.
19. CONNCT TO EXISTING UNSWITCHED CORRIDOR EMERGENCY LIGHTING BRANCH CIRCUIT.
20. CONNECT TO EXISTING ROOM LIGHTING BRANCH CIRCUIT.
21. PENDANT MOUNT EXIST SIGN 6" ABOVE DOOR TO BOTTOM OF SIGN



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REVISIONS

NO.	DATE	NAME	DESCRIPTION OF CHANGES

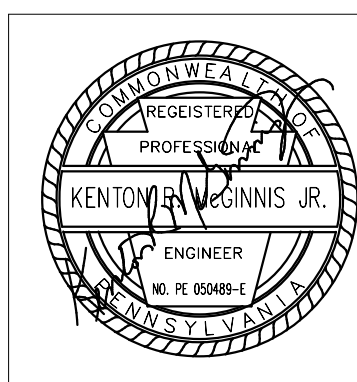
CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
401 EAST WINDING HILL ROAD
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717-458-0272

TOWSON, MARYLAND

CHARLOTTEVILLE, VIRGINIA

WHITE SULPHUR SPRINGS, WEST VIRGINIA

ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010



ALTERNATE - OAKMONT DAO
RENOVATION

PLOT SCALE:
As indicated
FILENAME:
240066
DATE:
MARCH 10, 2025

PROJECT
3758

E10.1