



PLUMBING SYMBOLS LIST

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists plumbing symbols for various pipes, valves, and fixtures.

NOTE: ALL SYMBOLS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL NOTE THAT NOT ALL SYMBOLS MAY BE USED, AS WELL AS NOT ALL SYMBOLS USED MAY BE LISTED. REFER TO PROJECT SPECIFIC NOTES FOR ADDITIONAL INFORMATION.

DRAWING CONVENTIONS

Table defining drawing conventions: NEW WORK - HEAVY AND SOLID LINES, EXISTING TO REMAIN - LIGHT AND SOLID LINES, REMOVE EXISTING - HEAVY AND DASHED LINES.

NOTICE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED.

GENERAL NOTES

- 30. All water piping inside the building thermal envelope shall be insulated with Owens Corning SSL II with ASJ Max Fiberglass pipe insulation as follows: Cold water, 1/2" thick insulation; hot water supply and recirculation piping 1.25" dia and smaller, 1" thick insulation; hot water supply and recirculation piping 1.5" dia and larger, 1.5" thick insulation.
31. No hot and cold water supply piping shall be run in outside walls, crawl space, attic, or other unheated spaces. Unless specifically noted and with heat trace.
32. All sanitary sewer traps and grease waste piping that is located in unheated areas shall be heat traced and insulated with 1" fiberglass minimum to prevent freezing. All heat tracing shall be controlled with a sensor on the coldest portion of the piping and set to turn on if pipe temperature drops below 45F.

ABBREVIATIONS

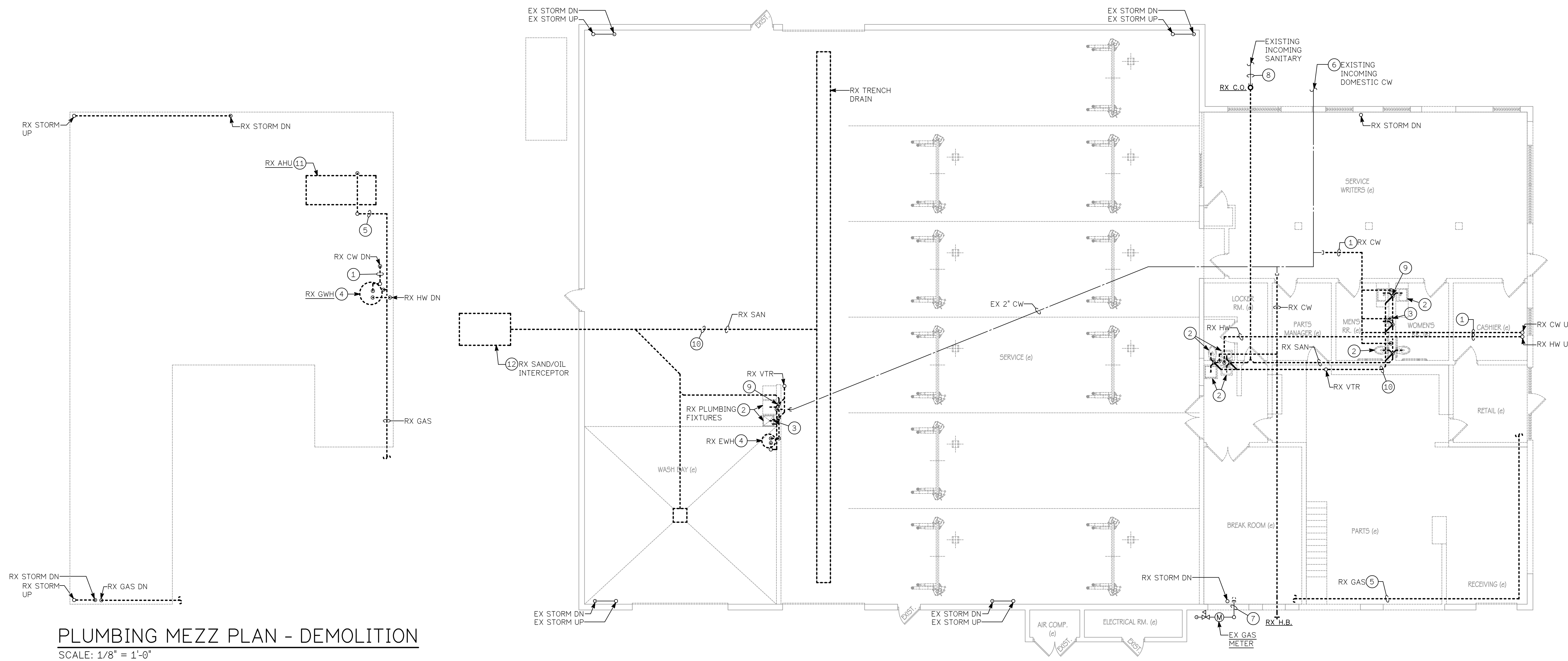
Table of abbreviations for plumbing components, including terms like COMPRESSED AIR, AUTOMATIC ADMITTANCE VALVE, AREA DRAIN, etc.

NOTICE TO CONTRACTORS: OCCUPIED FACILITY

EXISTING FACILITY IS PARTIALLY OCCUPIED. CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF SERVICE WITH OWNER AND NOTIFY OCCUPANTS 48 HOURS BEFORE SERVICE INTERRUPTION. IF ACCESS TO OCCUPIED SPACE IS REQUIRED, ACCESS SHALL BE COORDINATED WITH OWNER AND OCCUPANTS AFFECTED SHALL BE GIVEN 48 HOURS NOTICE.

DRAWING NOTES

1. REMOVE EXISTING DOMESTIC WATER PIPING (TYPICAL).
2. REMOVE EXISTING PLUMBING FIXTURE. (TYPICAL).
3. REMOVE EXISTING DOMESTIC WATER PIPING SERVING PLUMBING FIXTURES (TYPICAL).
4. REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED PIPING.
5. REMOVE EXISTING GAS PIPING BACK TO POINT INDICATED ON DRAWING AND CAP.
6. APPROXIMATE LOCATION OF INCOMING DOMESTIC WATER PIPING TO REMAIN. CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, ETC. IN FIELD AS REQUIRED.
7. EXISTING GAS PIPING TO REMAIN.
8. EXISTING SANITARY PIPING BELOW GRADE TO REMAIN. CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, ETC. IN FIELD AS REQUIRED.
9. REMOVE EXISTING SANITARY VENT PIPING CONNECTED TO EXISTING PLUMBING FIXTURES AND CAP.
10. REMOVE EXISTING SANITARY PIPING.
11. REMOVE EXISTING AIR HANDLING UNIT.
12. REMOVE EXISTING SAND/OIL INTERCEPTOR



PLUMBING MEZZ PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

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

**CMA HYUNDAI WINCHESTER
RENOVATION**
3951 VALLEY PIKE WINCHESTER
VA, CMA008a

CMA
3985 VALLEY PIKE
WINCHESTER, VA
23602

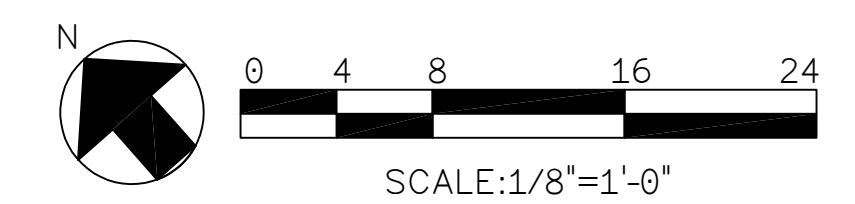
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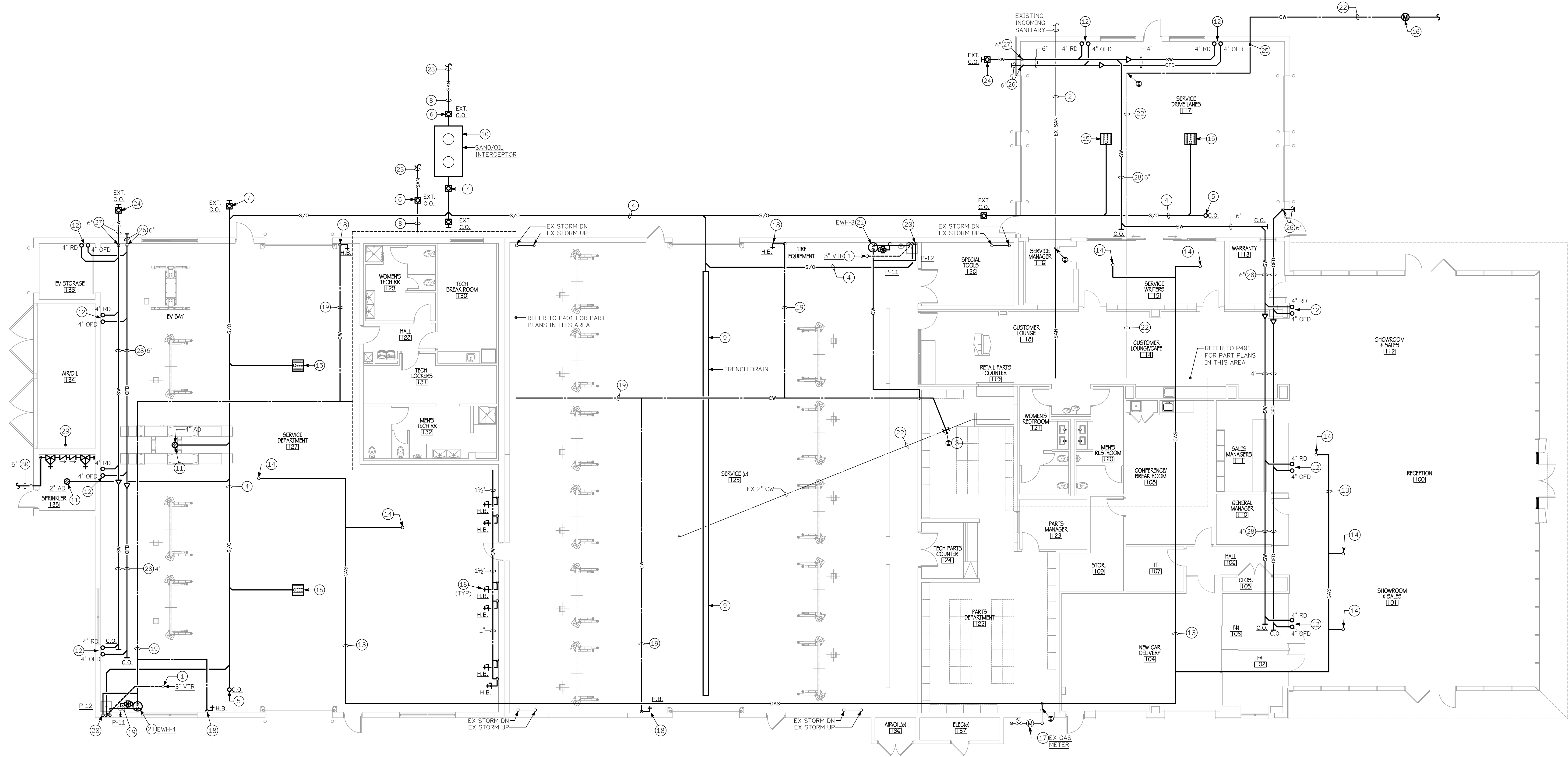
No.	Issue / Revision	Date
	MRB	
	GWB	
Plot Date:		

Sheet Number
P-101
Sheet Title
**FLOOR PLAN -
DEMOLITION**

Project Number
IDC #23-010

File Name

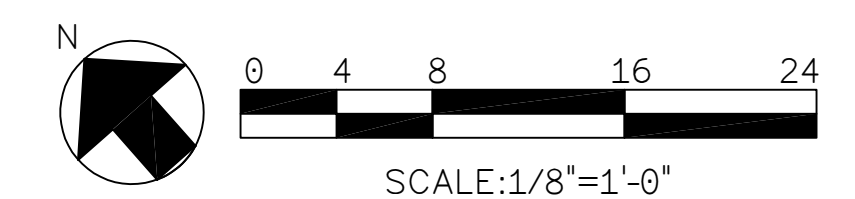


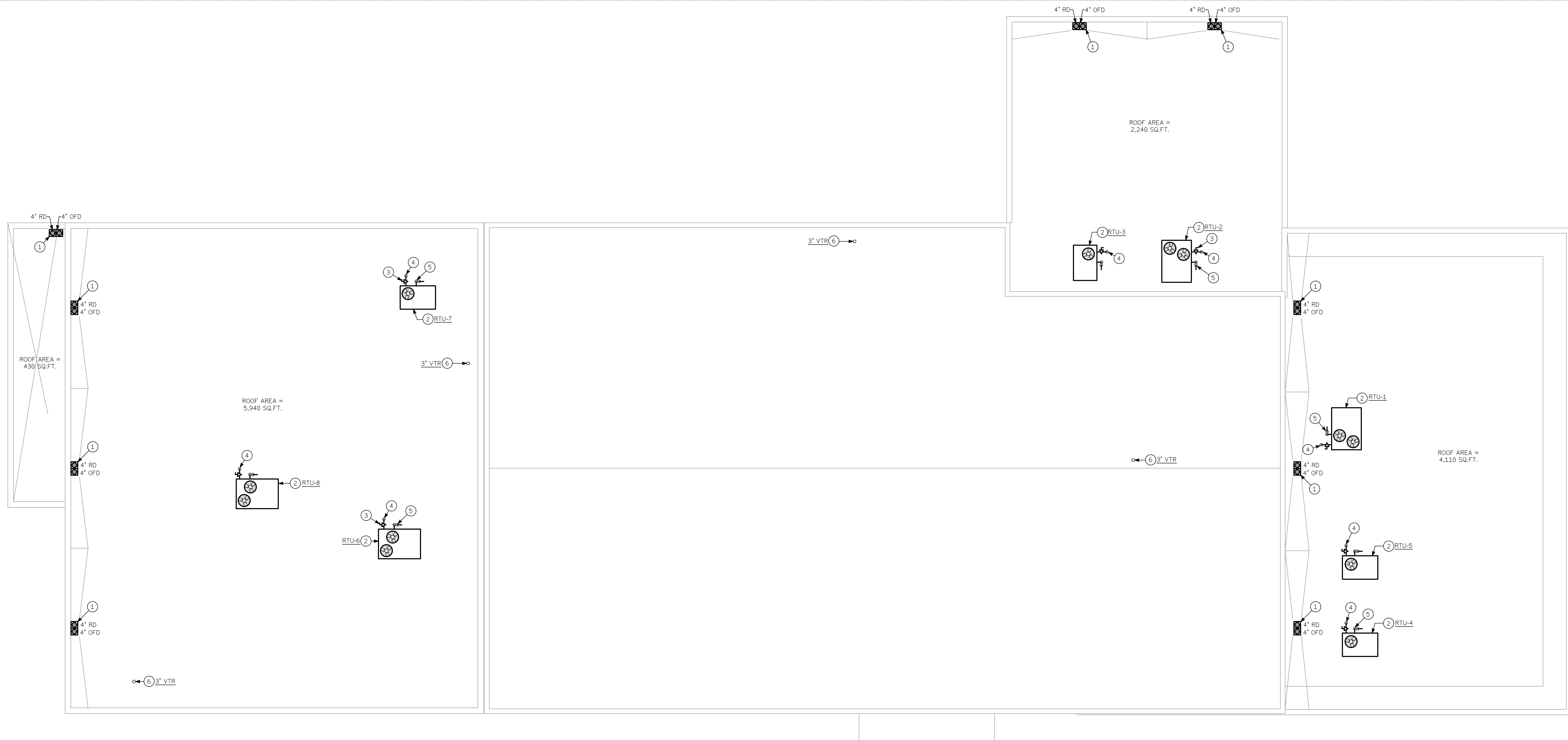


PLUMBING - FLOOR PLAN
SCALE: 1/8" = 1'-0"

DRAWING NOTES 1-30

1. SANITARY VENT PIPING UP THRU ROOF.
2. EXISTING SANITARY PIPING BELOW FLOOR SLAB/GRADE TO REMAIN.
3. CONNECT TO EXISTING DOMESTIC COLD WATER PIPING UNDERGROUND.
4. SAND/OIL PIPING BELOW FLOOR SLAB/GRADE SLOPED AT MINIMUM 1/8" PER FOOT.
5. SAND/OIL CLEANOUT IN FLOOR.
6. EXTERIOR SANITARY CLEANOUT (TYPICAL).
7. EXTERIOR SAND/OIL CLEANOUT (TYPICAL).
8. SANITARY PIPING BELOW GRADE SLOPED AT MINIMUM 1/8" PER FOOT.
9. 12" WIDE PRE-SLOPED TRENCH DRAIN WITH REMOVABLE HEAVY DUTY CAST IRON GRATE AND 6" OUTLET.
10. 2,890 GALLON SAND/OIL INTERCEPTOR LOCATED BELOW GRADE. UNIT SHALL BE JENSEN PRECAST MODEL JP2800EE-SO, MAYOR BROS., OR APPROVED EQUAL WITH H-20 HEAVY DUTY CONSTRUCTION. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND LOCAL CODES. EARTH COVER SHALL NOT EXCEED 5'-0" OR PER LOCAL CODES. COORDINATE WITH CIVIL DRAWINGS.
11. AREA DRAIN WITH DEEP SEAL TRAP.
12. STORM AND OVERFLOW PIPING UP THRU ROOF TO DRAINS, SIZE AS INDICATED. COORDINATE EXACT HEIGHT OF OVERFLOW PIPE ABOVE ROOF WITH STRUCTURAL ENGINEER.
13. GAS PIPING SUPPORTED HIGH FROM ROOF JOIST.
14. GAS PIPING UP THRU ROOF IN PITCH POCKET (TYPICAL).
15. 24"x24" AREA DRAIN WITH HEAVY-DUTY CAST IRON GRATE AND 4" OUTLET. WATTS MODEL FD-530 OR APPROVED EQUAL.
16. NEW WATER METER BY CIVIL.
17. EXISTING GAS METER ASSEMBLY TO REMAIN.
18. DOMESTIC COLD WATER PIPING DOWN ALONG WALL EXPOSED TO 24" ABOVE FLOOR WITH INTERIOR WALL MOUNTED HOSE BIBB (SPIGOT) WITH VACUUM BREAKER AND HOSE END CONNECTION (TYPICAL). WATTS SC8 OR APPROVED EQUAL.
19. DOMESTIC WATER PIPING SUPPORTED FROM STRUCTURE ABOVE CEILING.
20. DOMESTIC WATER PIPING DOWN INSIDE WALL AND EXTENDED TO FIXTURE(S)/EQUIPMENT.
21. ELECTRIC WATER HEATER. SEE SCHEDULE FOR MORE DETAILS.
22. NEW DOMESTIC COLD WATER SERVICE.
23. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
24. EXTERIOR STORM WATER CLEANOUT.
25. BALL VALVE WITH LEAD-FREE, BRONZE ASSE1024 DUAL CHECK BACKFLOW PREVENTER. WATTS MODEL SERIES LF7 OR APPROVED EQUAL.
26. OVERFLOW PIPING DOWN ALONG WALL AND THRU EXTERIOR WALL TO DISCHARGE NOZZLE AT 12" ABOVE GRADE. WADE MODEL 3940 OR APPROVED EQUAL WITH NICKLE FINISH.
27. STORM WATER PIPING DOWN ALONG WALL AND THRU EXTERIOR WALL WITH CLEANOUT AT BASE OF RISER AND EXTENDED OUT TO 5'-0" BEYOND BUILDING.
28. STORM WATER AND OVERFLOW PIPING SUPPORTED HIGH FROM TOP CHORD OF ROOF JOIST AND SLOPED AT MINIMUM 1/8" PER FOOT.
29. 6" FIRE PROTECTION PIPING MOUNTED FROM FLOOR/WALL AT APPROXIMATELY 36" ABOVE FLOOR WITH U.L./F.M. LISTED AND COUNTY APPROVED OS&Y VALVES AND BACKFLOW PREVENTER ASSEMBLY. WATTS SERIES 7090CDAOSY OR APPROVED EQUAL. COORDINATE USAGE WITH THE LOCAL FIRE MARSHALL.
30. 6" FIRE PROTECTION SERVICE TO BUILDING BELOW GRADE AND EXTENDED OUT 5'-0" BEYOND BUILDING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

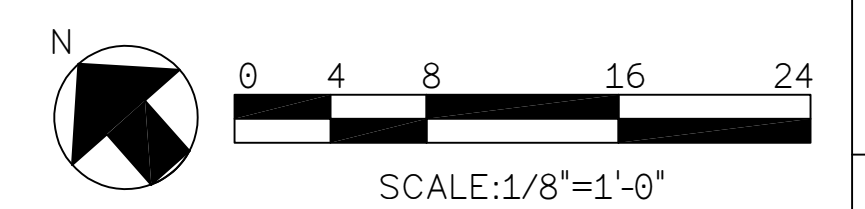




PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

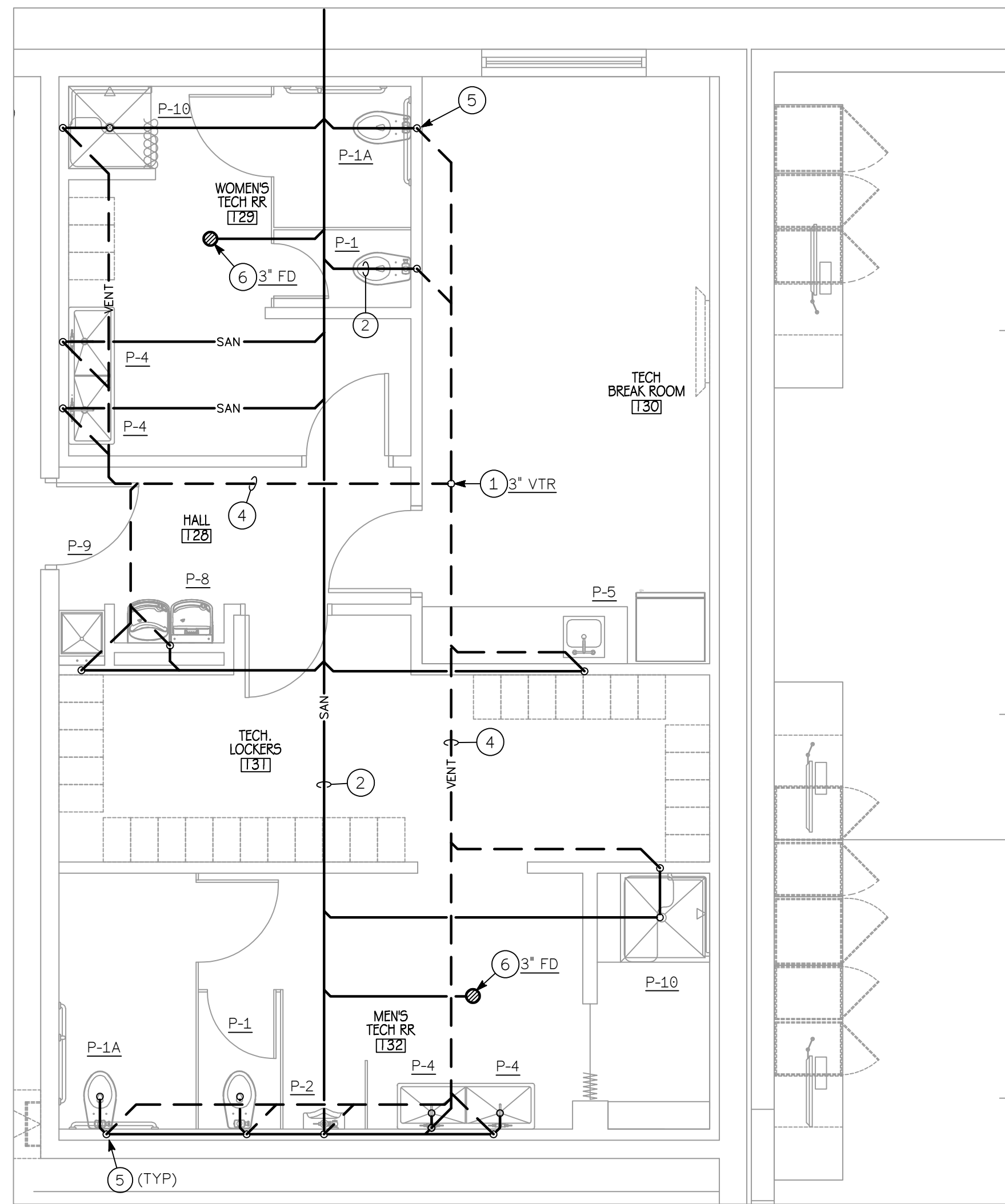
DRAWING NOTES (1) (2)

1. ROOF AND OVERFLOW DRAIN, SIZE AS INDICATED. COORDINATE EXACT HEIGHT OF OVERFLOW PIPE ABOVE ROOF WITH STRUCTURAL ENGINEER.
2. GAS FIRED ROOFTOP UNIT ON FACTORY CURB (TYPICAL). REFER TO SCHEDULE.
3. GAS COCK AND UNION AT CONNECTION TO EQUIPMENT (TYPICAL).
4. GAS PIPING UP THRU ROOF IN PITCH POCKET (TYPICAL).
5. FULL SIZE CONDENSATE DRAIN WITH DEEP SEAL TRAP (TYPICAL).
6. SANITARY VENT PIPING UP THRU ROOF.

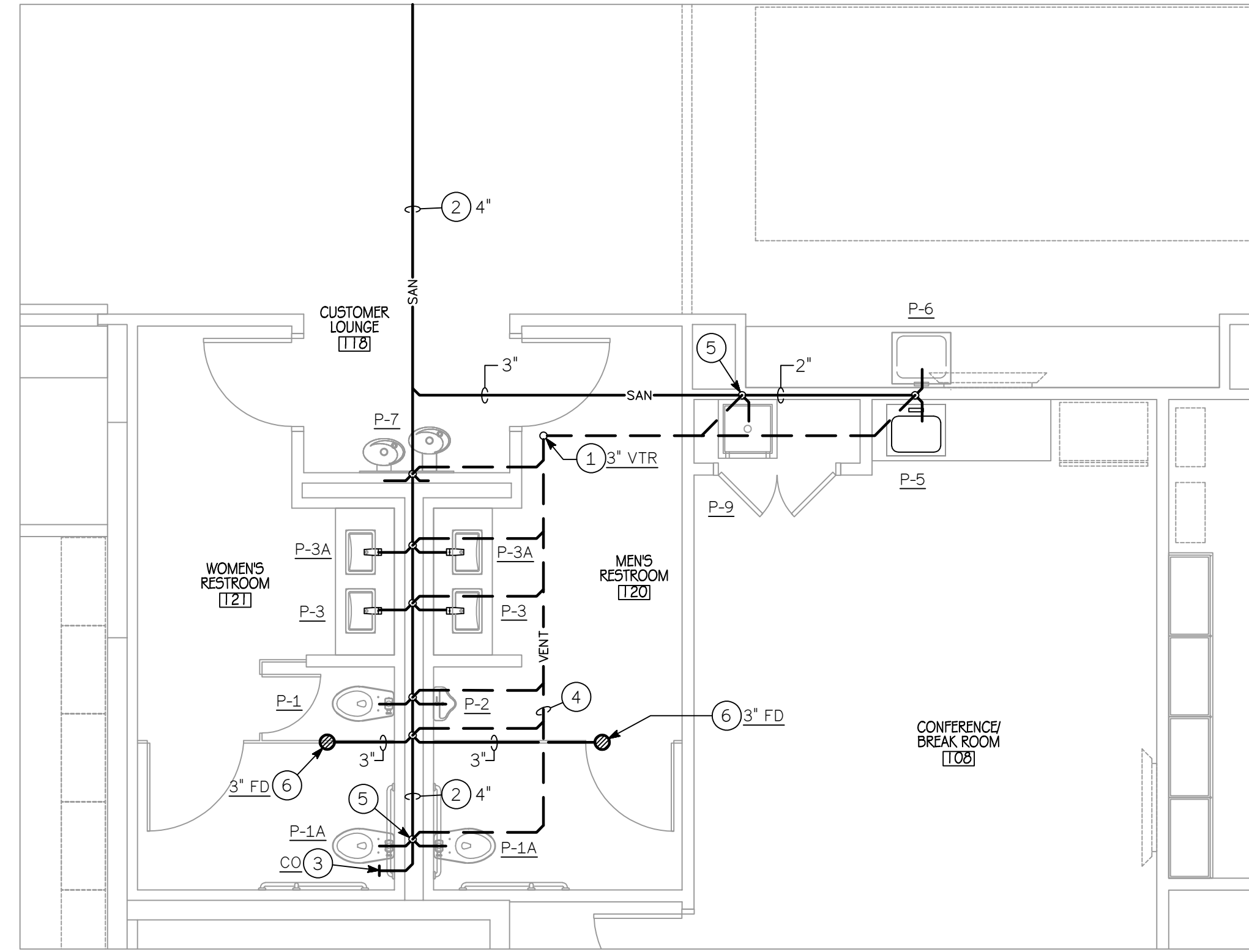


DRAWING NOTES

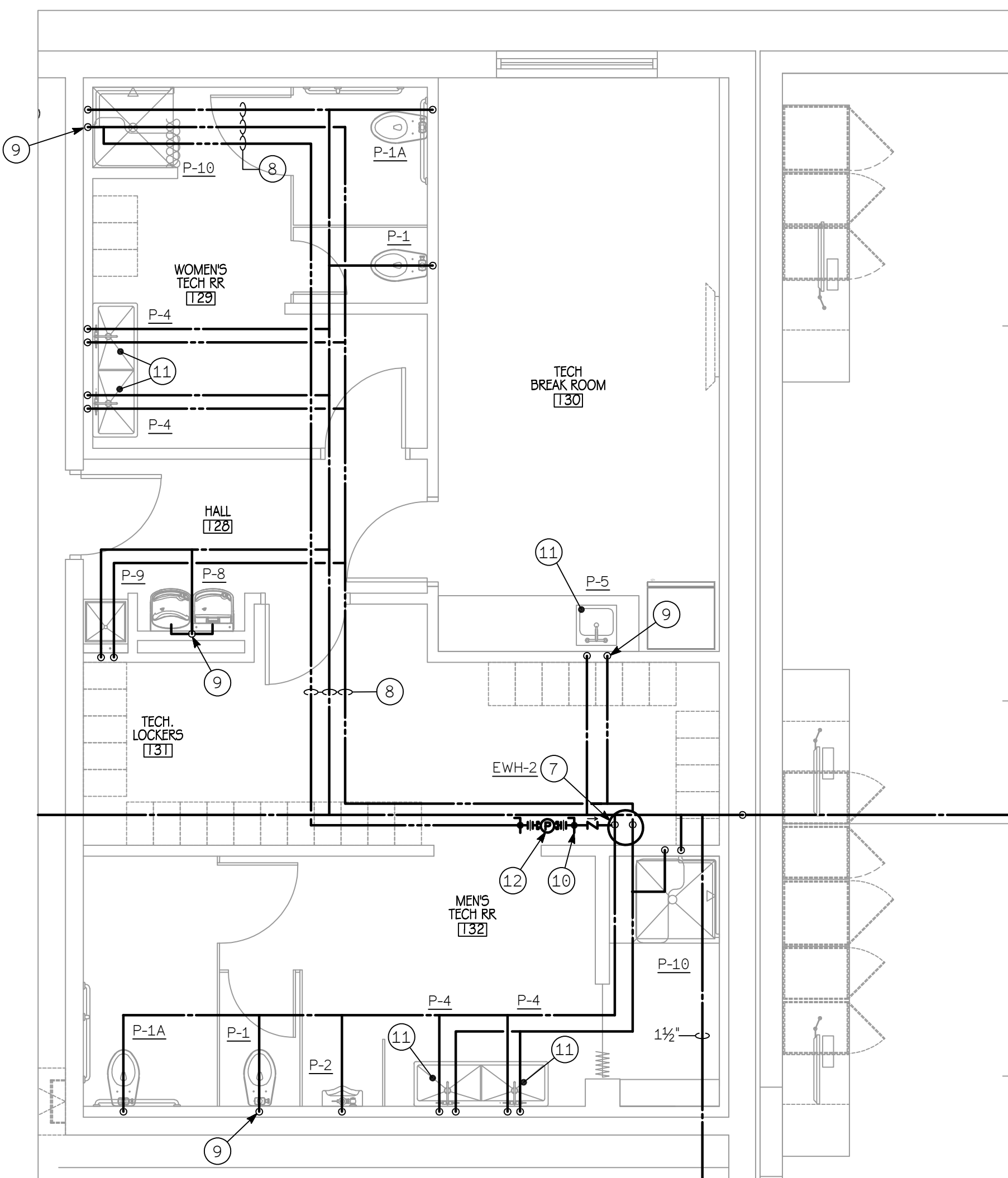
- SANITARY VENT PIPING UP THRU ROOF.
- SANITARY PIPING BELOW FLOOR SLAB/GRADE SLOPED AT MINIMUM 1/8" PER FOOT. ALL 2" SANITARY PIPING BELOW FLOOR SLAB/GRADE SHALL BE SLOPED AT 1/4" PER FOOT.
- SANITARY CLEANOUT IN WALL (TYPICAL).
- SANITARY VENT PIPING SUPPORTED HIGH FROM STRUCTURE ABOVE CEILING.
- SANITARY VENT PIPING UP INSIDE WALL AND ROUTED ABOVE CEILING AS INDICATED (TYPICAL).
- FLOOR DRAIN WITH TRAP PRIMER (TYPICAL), SIZE AS INDICATED.
- ELECTRIC WATER HEATER MOUNTED ON PLATFORM ABOVE CEILING IN FULL SIZE DRAIN PAN. REFER TO SCHEDULE.
- DOMESTIC WATER PIPING SUPPORTED HIGH FROM STRUCTURE ABOVE (TYPICAL).
- DOMESTIC WATER PIPING DOWN INSIDE WALL AND EXTENDED TO FIXTURES (TYPICAL).
- BALL VALVE (TYPICAL).
- UNDERSINK THERMOSTATIC MIXING VALVE WITH TAMPER-PROOF LOCKING CAP AND SET AT 105°F. WATTS LEAD-FREE LFUSG-B-M1 OR APPROVED EQUAL WITH ASSE1070 LISTING.
- HOT WATER RECIRCULATING PUMP. TACO MODEL 097 OR APPROVED EQUAL, WITH ALL BRONZE CONSTRUCTION, 4 G.P.M. @ 9' HEAD, 1/25 HP, 115V/1Ø. PROVIDE TACO TIMER/AQUASTAT UNIT TO ENERGIZE PUMP DURING OCCUPIED TIMES AND MAINTAIN SYSTEM TEMPERATURE OF 140°F.
- ELECTRIC WATER HEATER MOUNTED HIGH ON PLATFORM ABOVE MOP SINK IN FULL SIZE DRAIN PAN. REFER TO SCHEDULE.
- DOMESTIC WATER PIPING STUBBED OUT BELOW COUNTER WITH BALL VALVE AND STAINLESS STEEL ASSE1022 DOUBLE CHECK VALVE FOR COFFEE MAKER. WATTS MODEL SD-3 OR APPROVED EQUAL.
- DOMESTIC WATER PIPING STUBBED OUT AT WATER VALVE BOX MOUNTED APPROXIMATELY 48" ABOVE FLOOR FOR ICE MAKER CONNECTION. WATER-TITE MODEL W9700 OR EQUAL WITH 1/2" CONNECTION AND 1/4" TURN VALVE. PROVIDE LEAD-FREE, ASSE1024 BRONZE DUAL CHECK BACKFLOW PREVENTER UPSTREAM OF VALVE BOX, WATTS MODEL SERIES LF7 OR APPROVED EQUAL.
- AUTOMATIC TRAP PRIMER/DISTRIBUTION UNIT LOCATED ABOVE CEILING WITH BALL VALVE AND ACCESS DOOR. EXTEND 1/2" PIPING TO EACH FLOOR DRAIN TRAP. UNIT SHALL BE PPP MODEL PR-500 PRIMER WITH DU-U-500 DISTRIBUTION UNIT, ASSE1018 LISTED, OR APPROVED EQUAL.
- LEAD-FREE ASSE1018 LISTED WATER HAMMER ARRESTOR LOCATED ABOVE CEILING. WATTS MODEL LF15M2 OR APPROVED EQUAL.



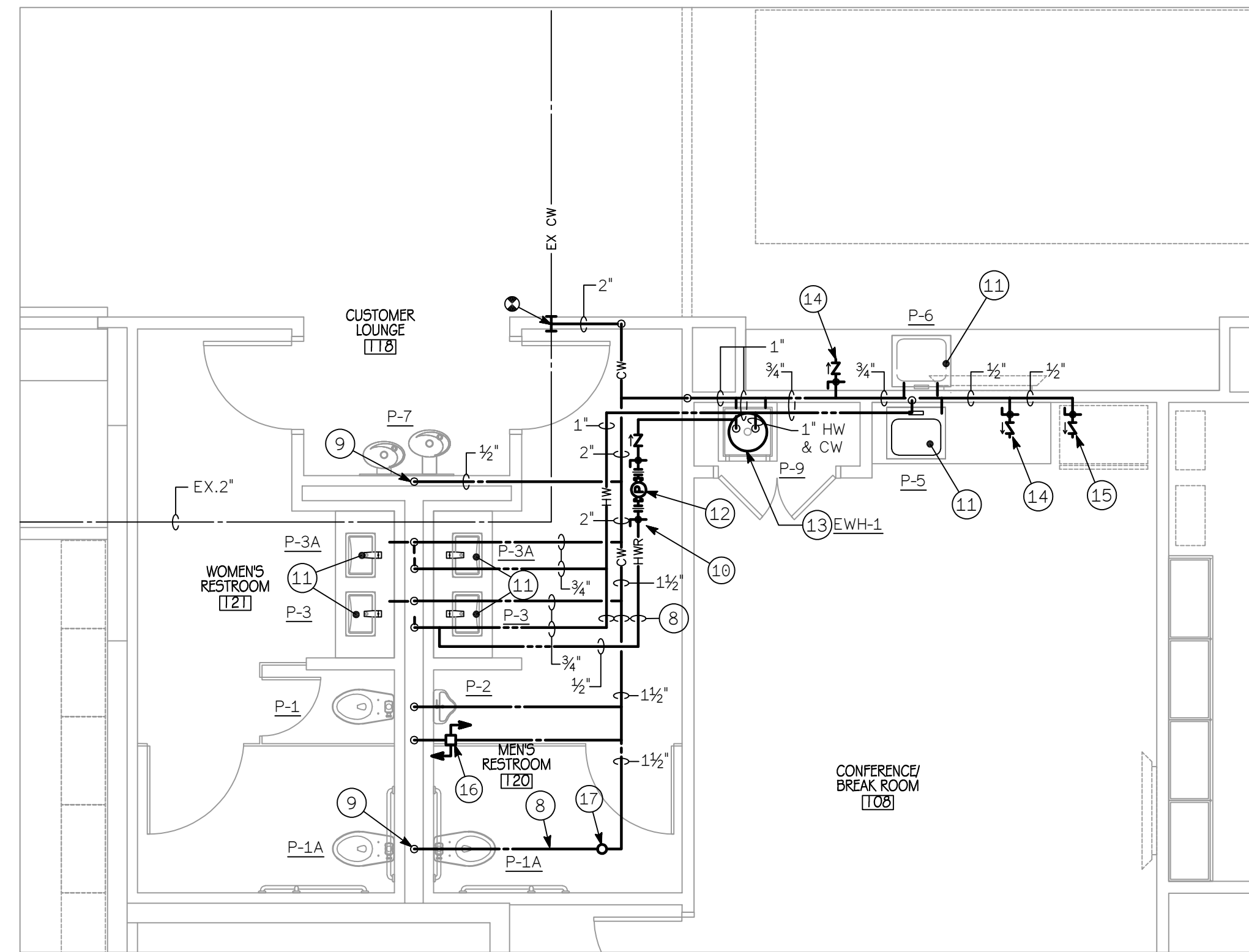
SANITARY / VENT - PART PLAN
SCALE: 1/4" = 1'-0"



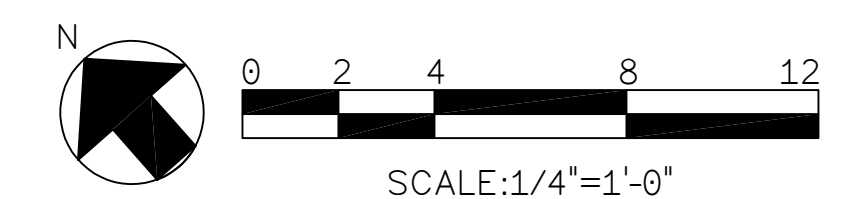
SANITARY / VENT - PART PLAN
SCALE: 1/4" = 1'-0"

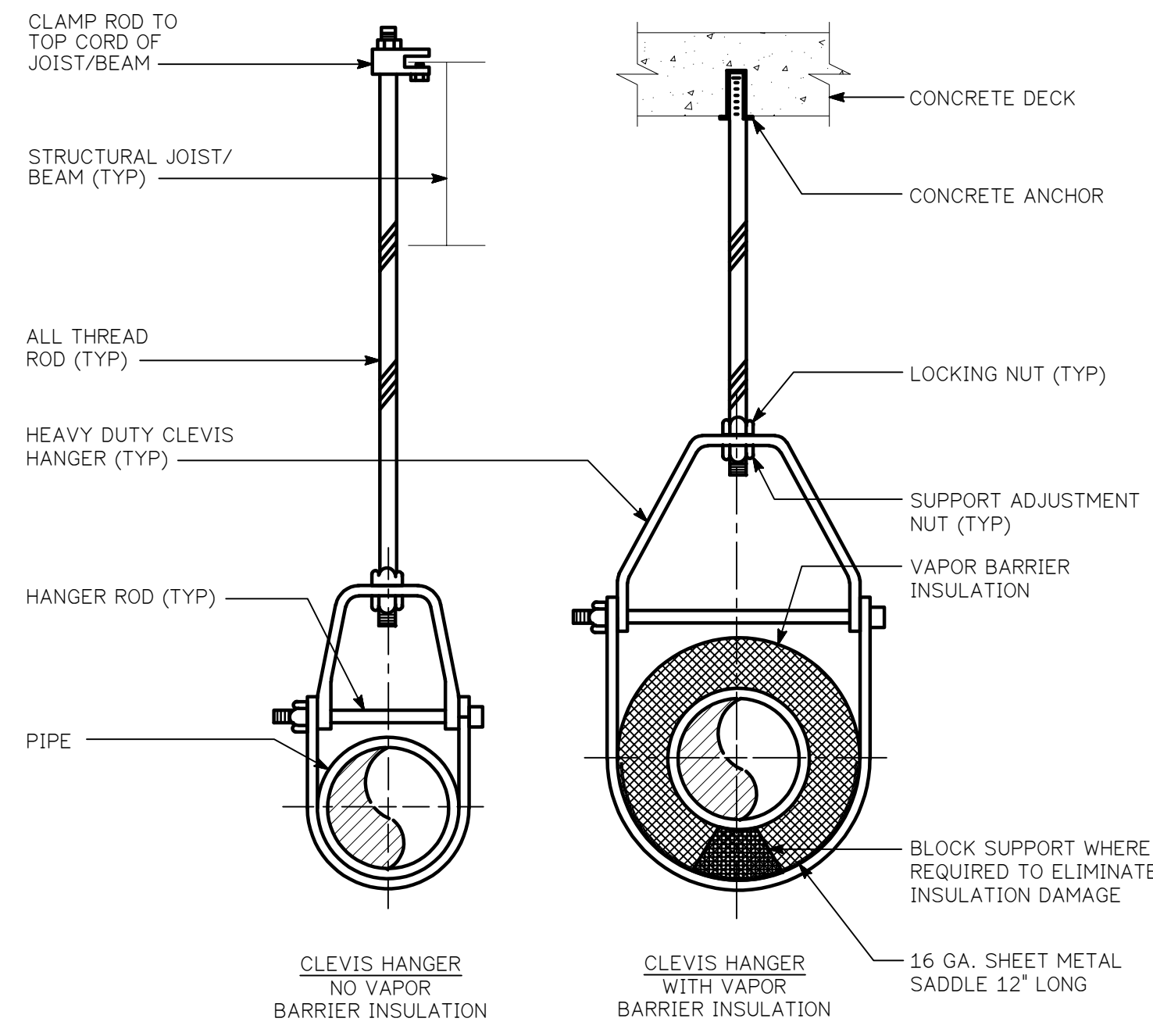


DOMESTIC WATER - PART PLAN
SCALE: 1/4" = 1'-0"



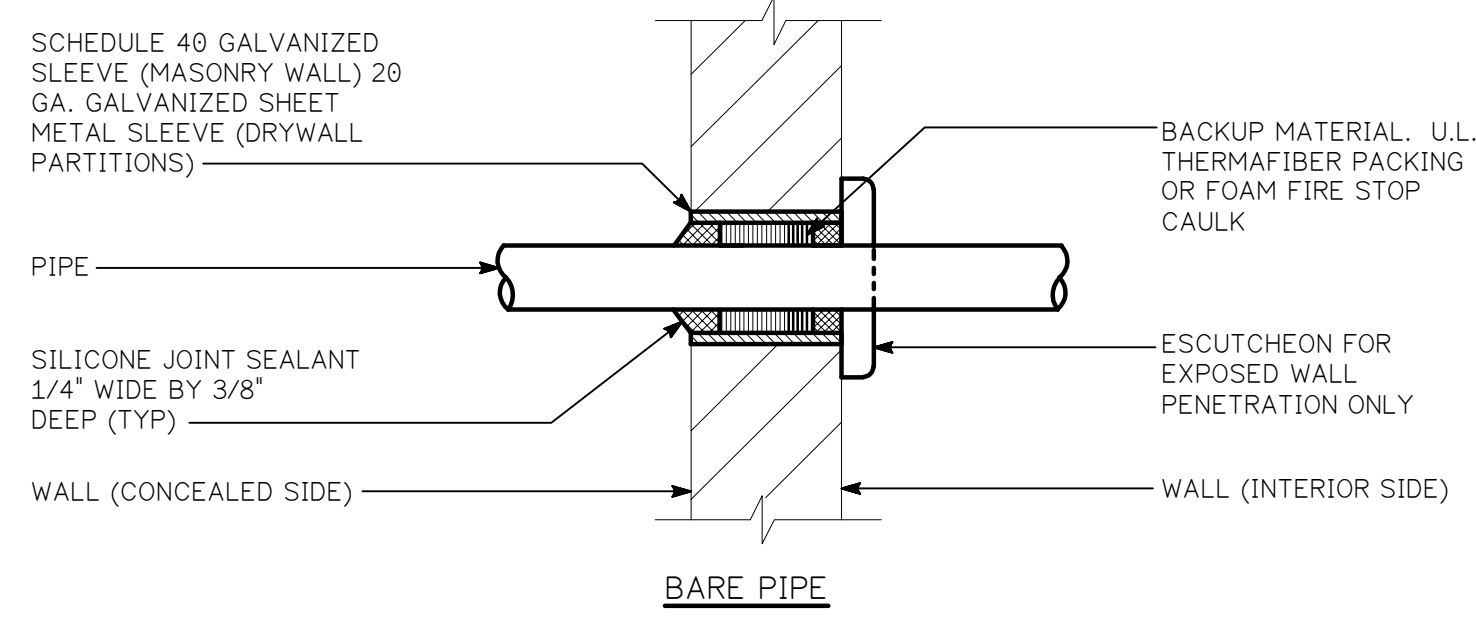
DOMESTIC WATER - PART PLAN
SCALE: 1/4" = 1'-0"



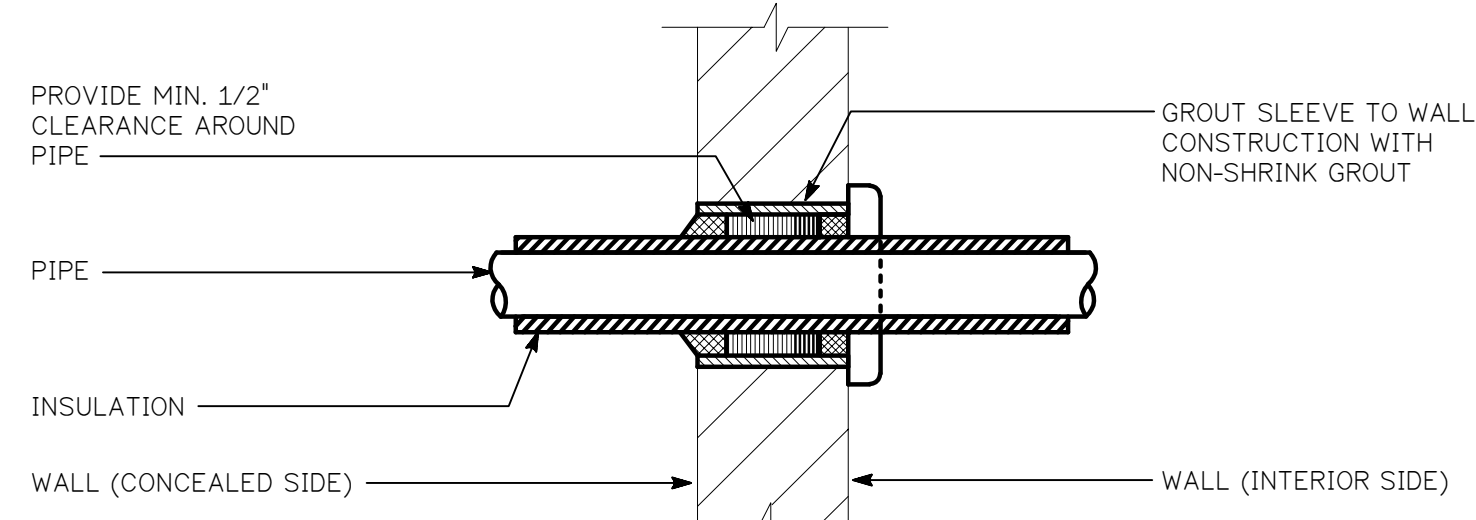


PIPE SUPPORT

NO SCALE
 NOTES:
 1) ALL HANGERS FOR COPPER PIPING SHALL BE COPPER COATED.
 2) DISTANCE BETWEEN SUPPORTS: CAST IRON=6", COPPER=16", STEEL=12", PVC=4"



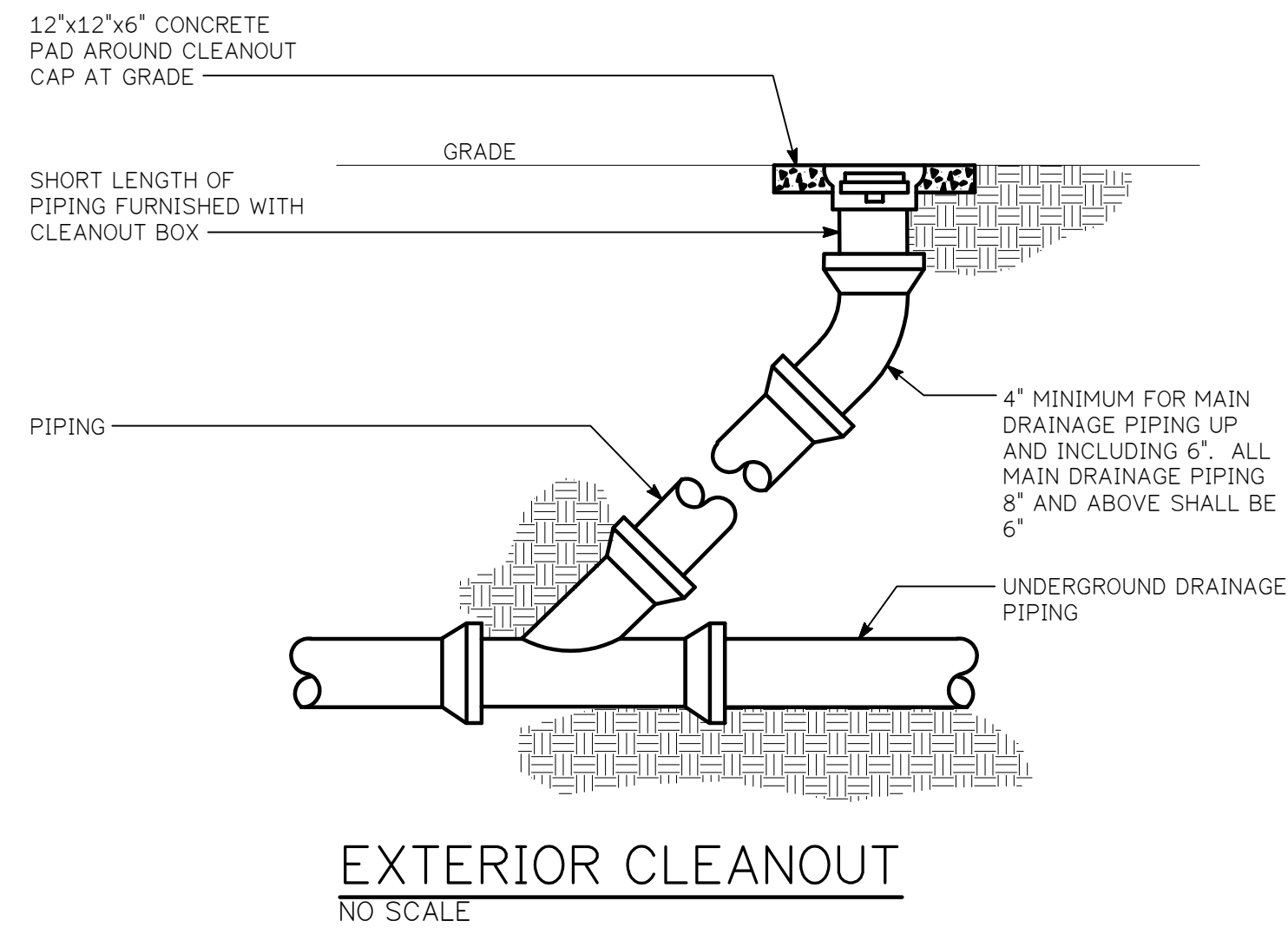
BARE PIPE



INSULATED PIPE

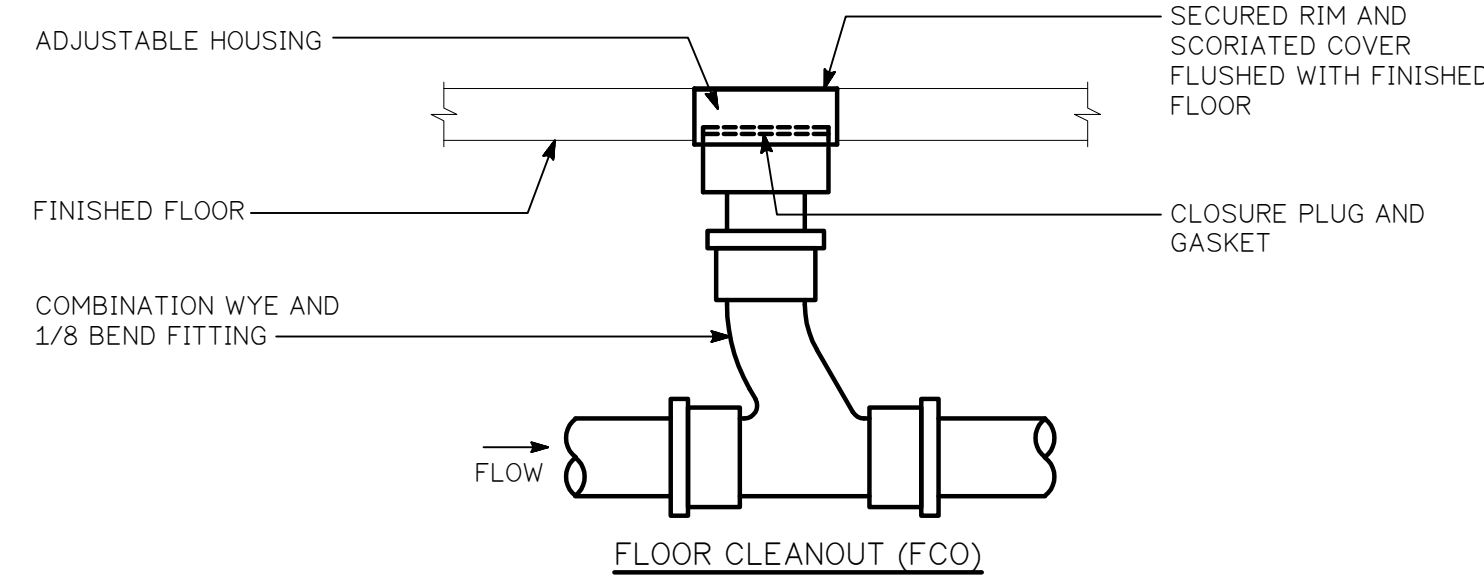
PIPE SLEEVE THRU WALL

NO SCALE
 NOTES:
 1) AT THE CONTRACTORS' OPTION A U.L. LISTED/APPROVED FIRE STOP PIPE SLEEVE ASSEMBLY MAY BE SUBMITTED FOR APPROVAL.
 2) FOR EXISTING POURED CONCRETED WALLS, CORE DRILL OR STAR DRILL OPENING THRU EXISTING WALL FOR PIPE SLEEVES AS DIRECTED.
 3) GALVANIZED SLEEVE SHALL BE CAST INTO NEW CONCRETE WALL POURS.



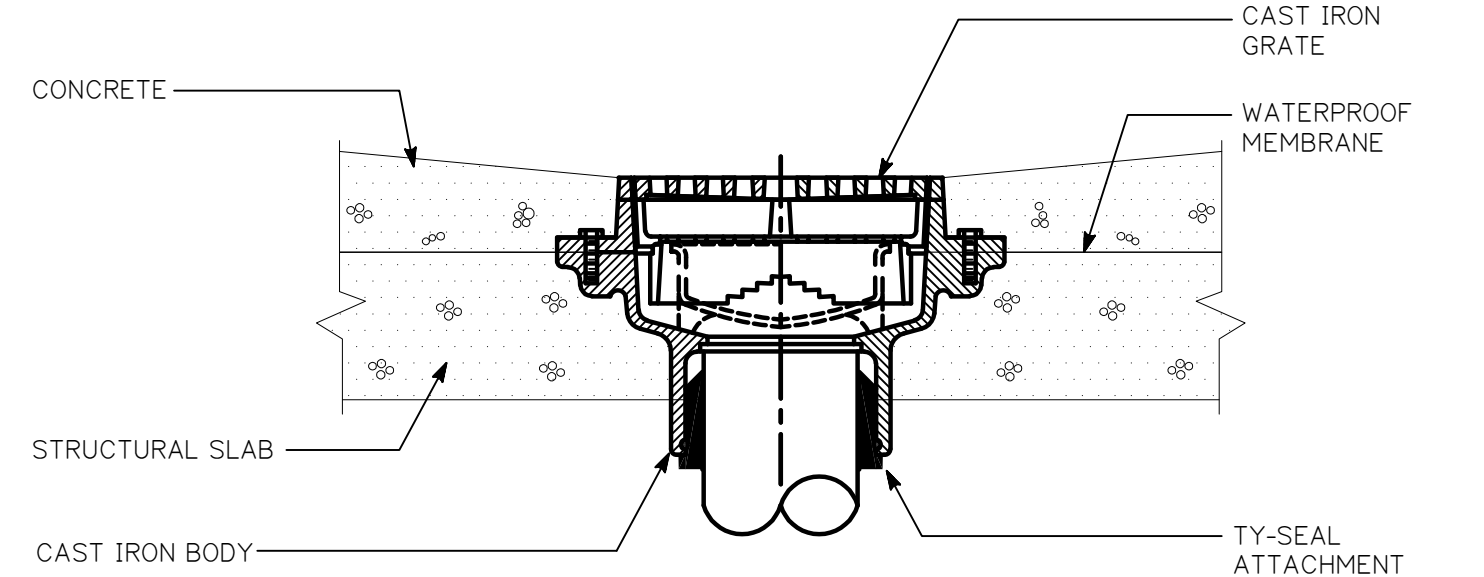
EXTERIOR CLEANOUT

NO SCALE



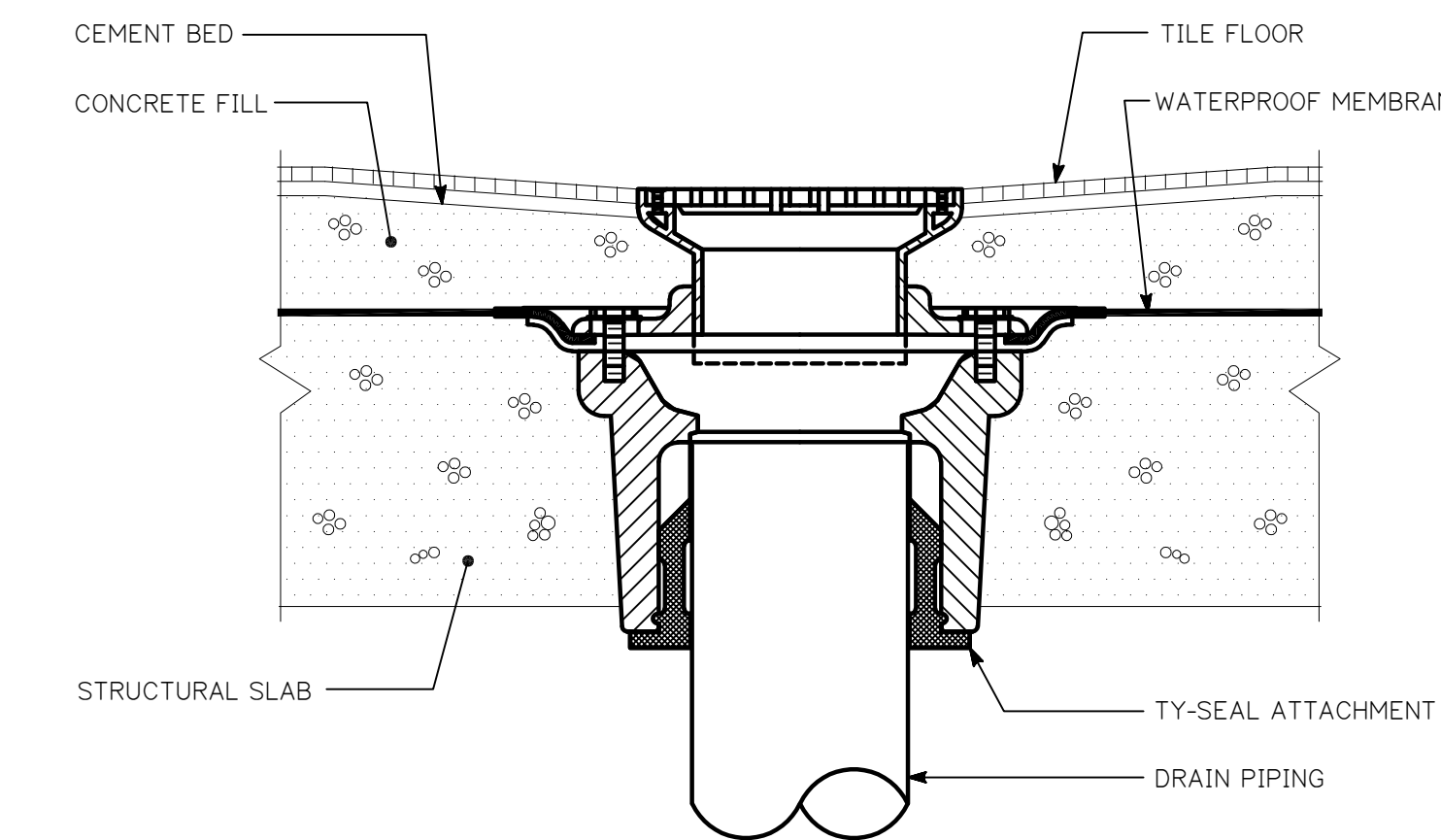
INTERIOR CLEANOUT

NO SCALE



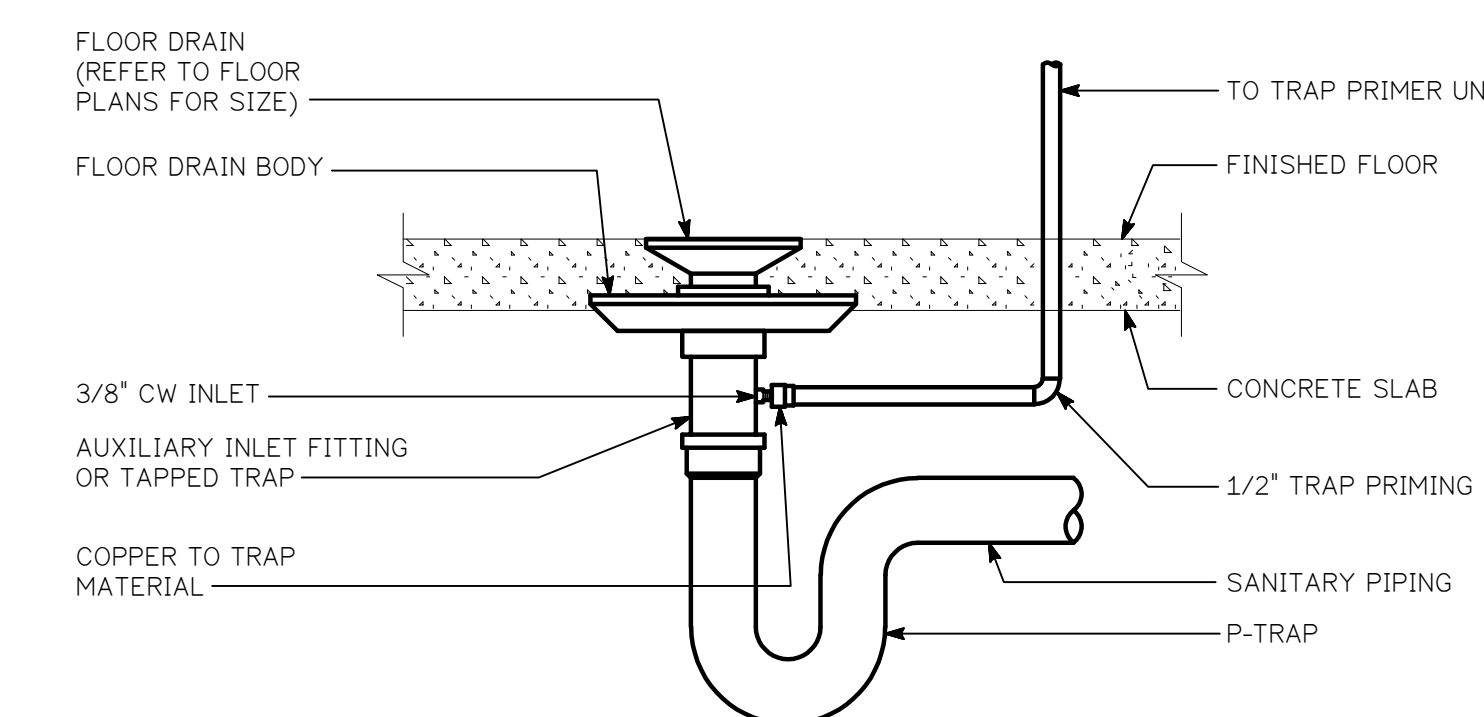
AREA DRAIN

NO SCALE



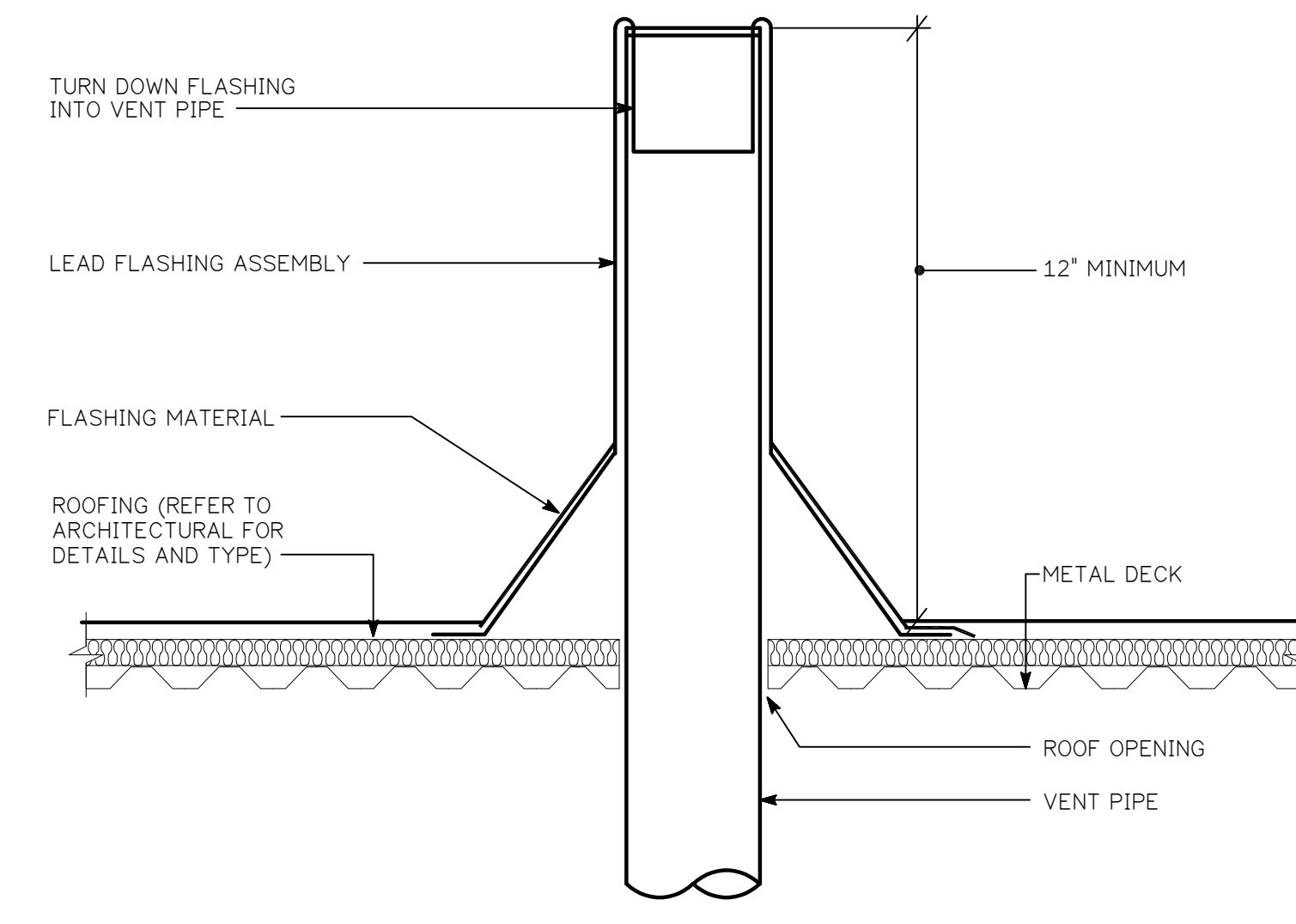
FLOOR DRAIN

NO SCALE



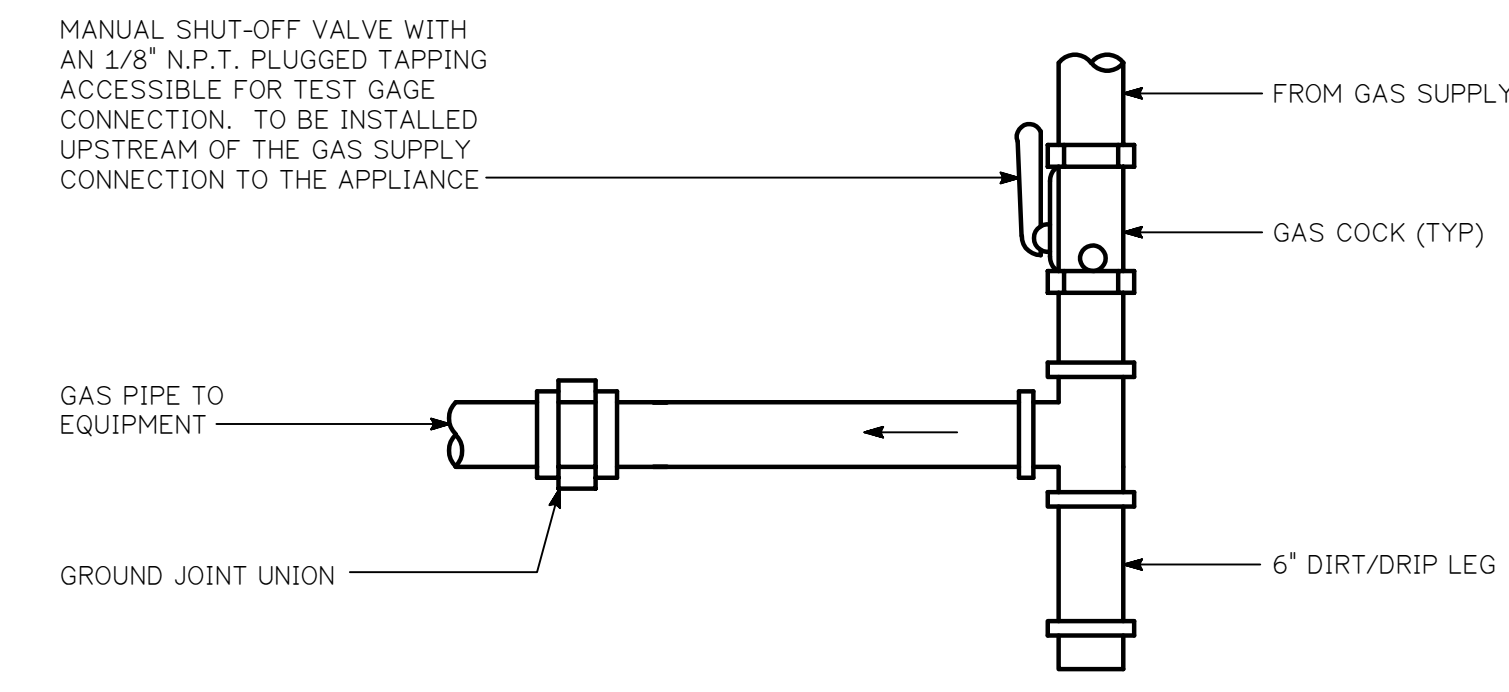
TYPICAL FLOOR DRAIN WITH TRAP PRIMER

NO SCALE



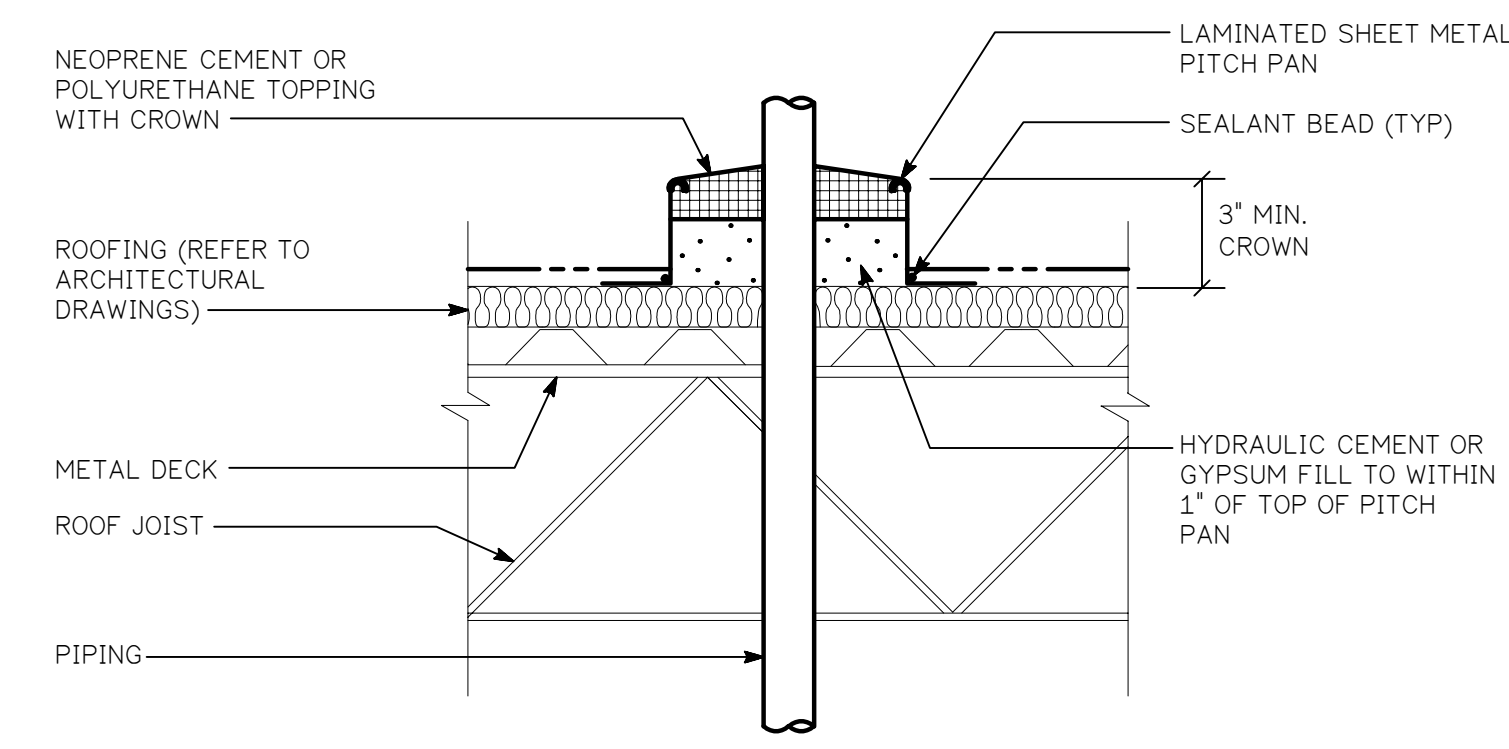
VENT PIPE THRU ROOF

NO SCALE



GAS CONNECTION TO EQUIPMENT

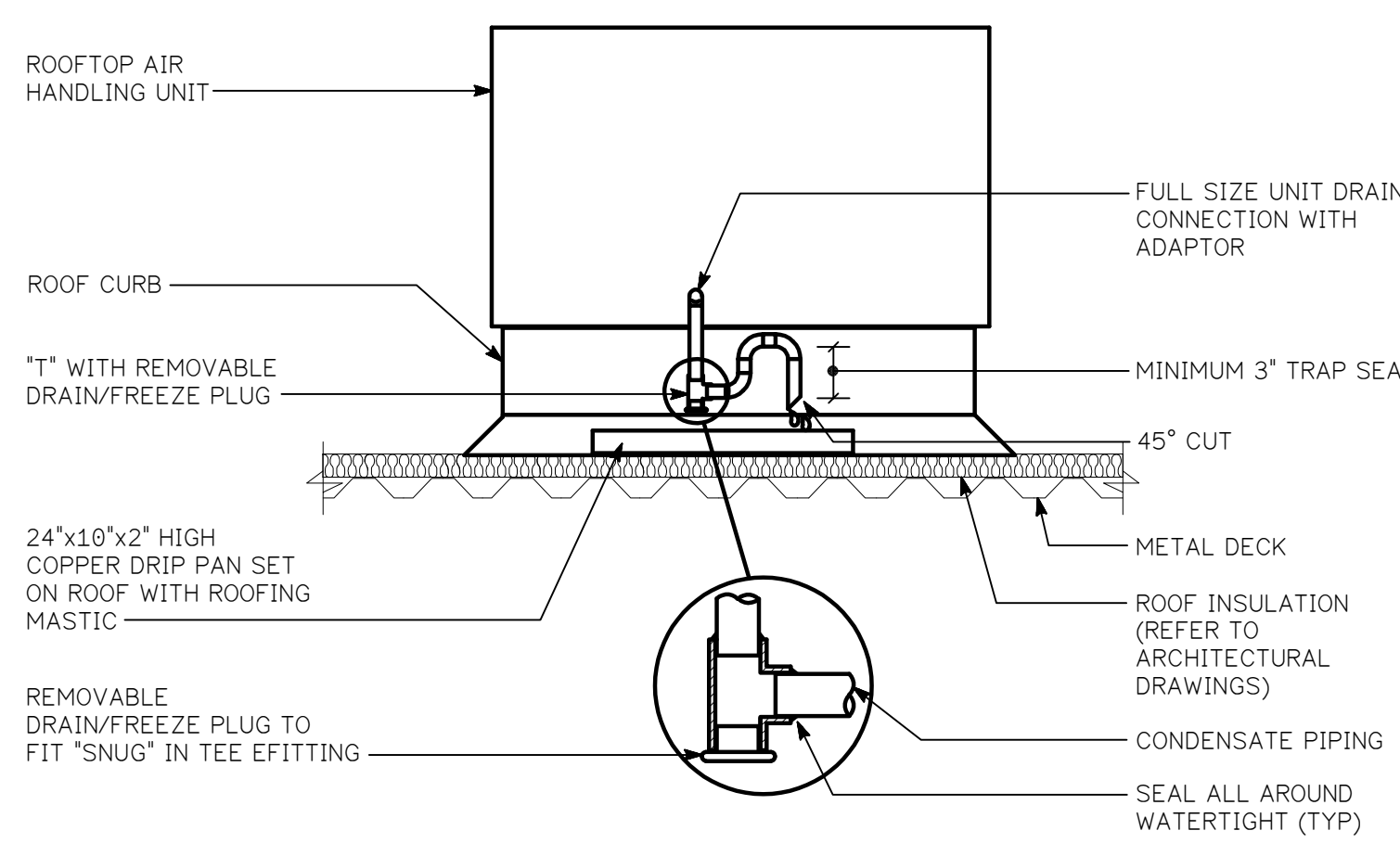
NO SCALE



PITCH POCKET THRU ROOF

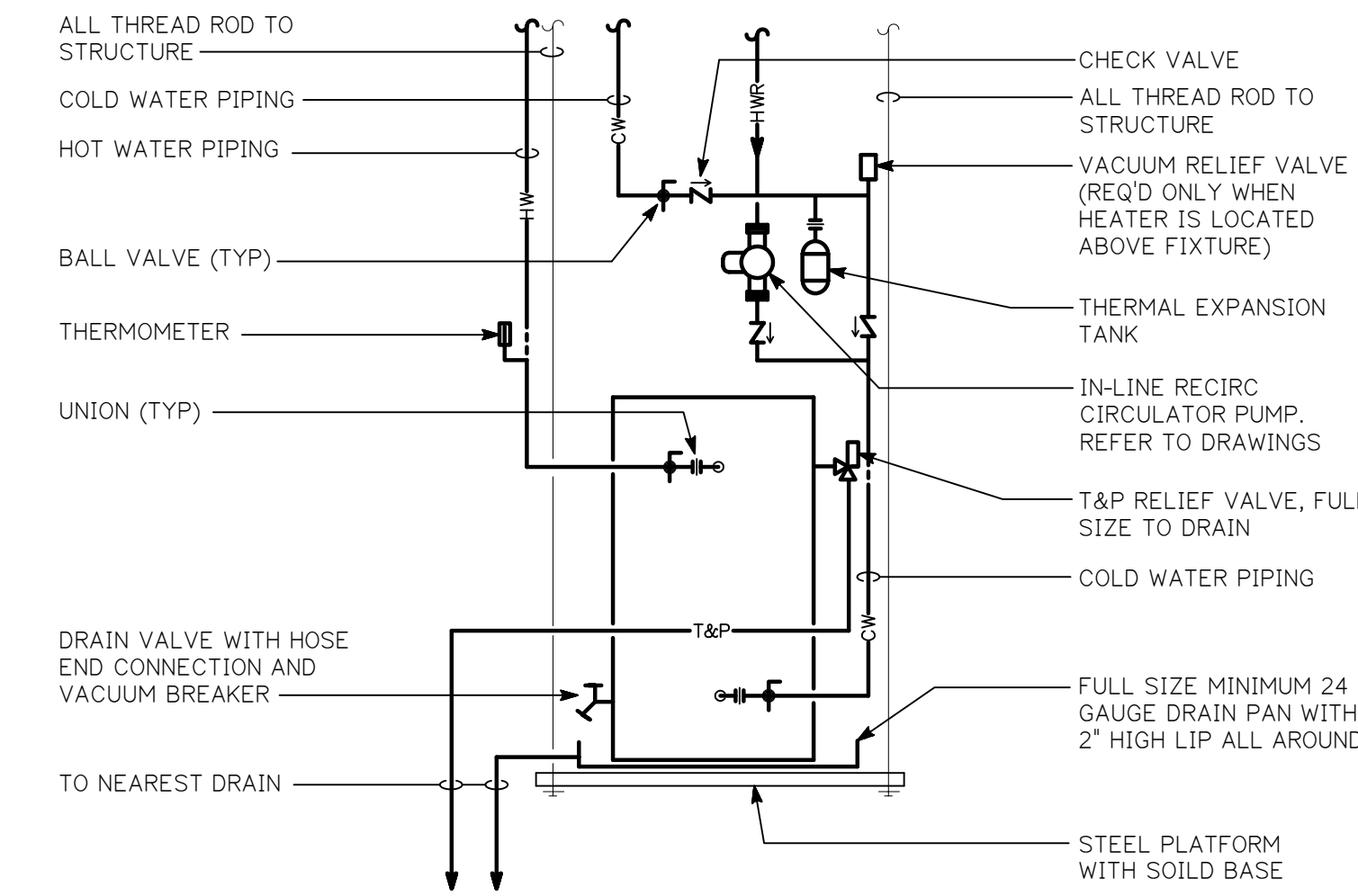
NO SCALE

NOTE:
 DETAIL SIMILAR FOR WOODEN ROOF JOIST.



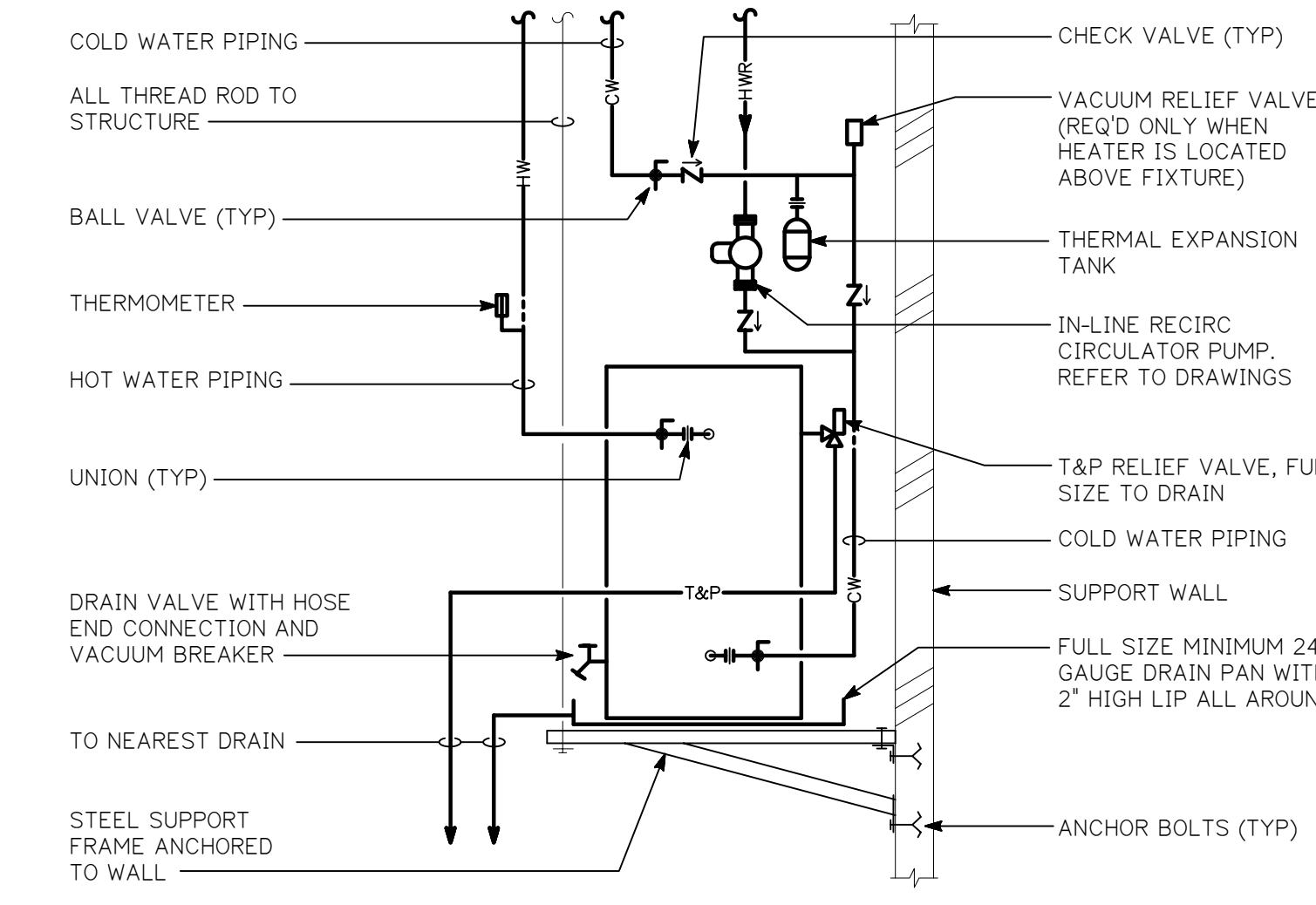
ROOFTOP UNIT CONDENSATE TRAP

NO SCALE



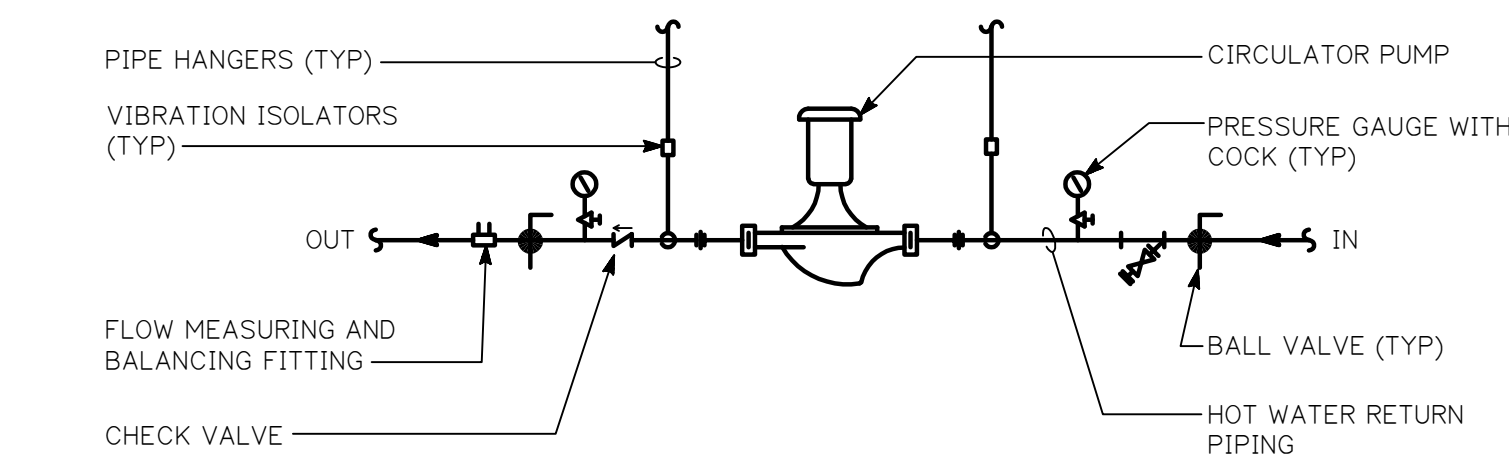
ELECTRIC PLATFORM MOUNTED WATER HEATER PIPING SCHEMATIC

NO SCALE



WALL MOUNTED WATER HEATER WITH RECIRC PUMP PIPING SCHEMATIC

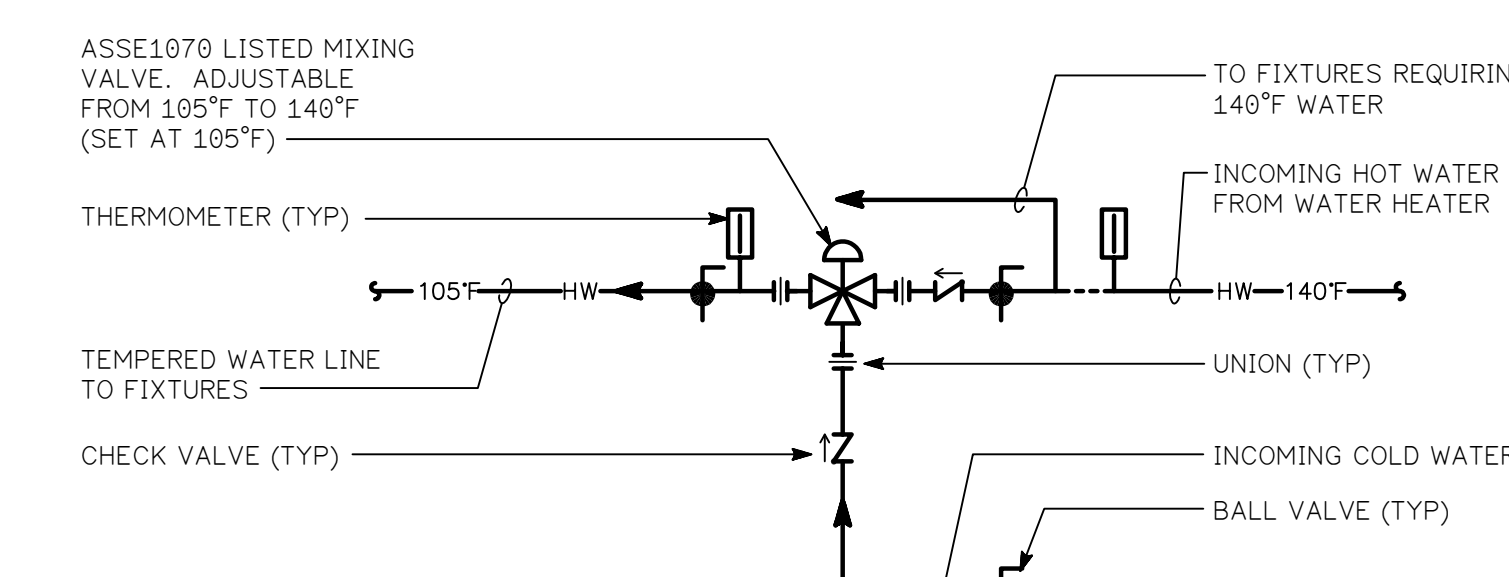
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DOMESTIC HOT WATER IN-LINE CIRCULATOR PUMP PIPING DIAGRAM

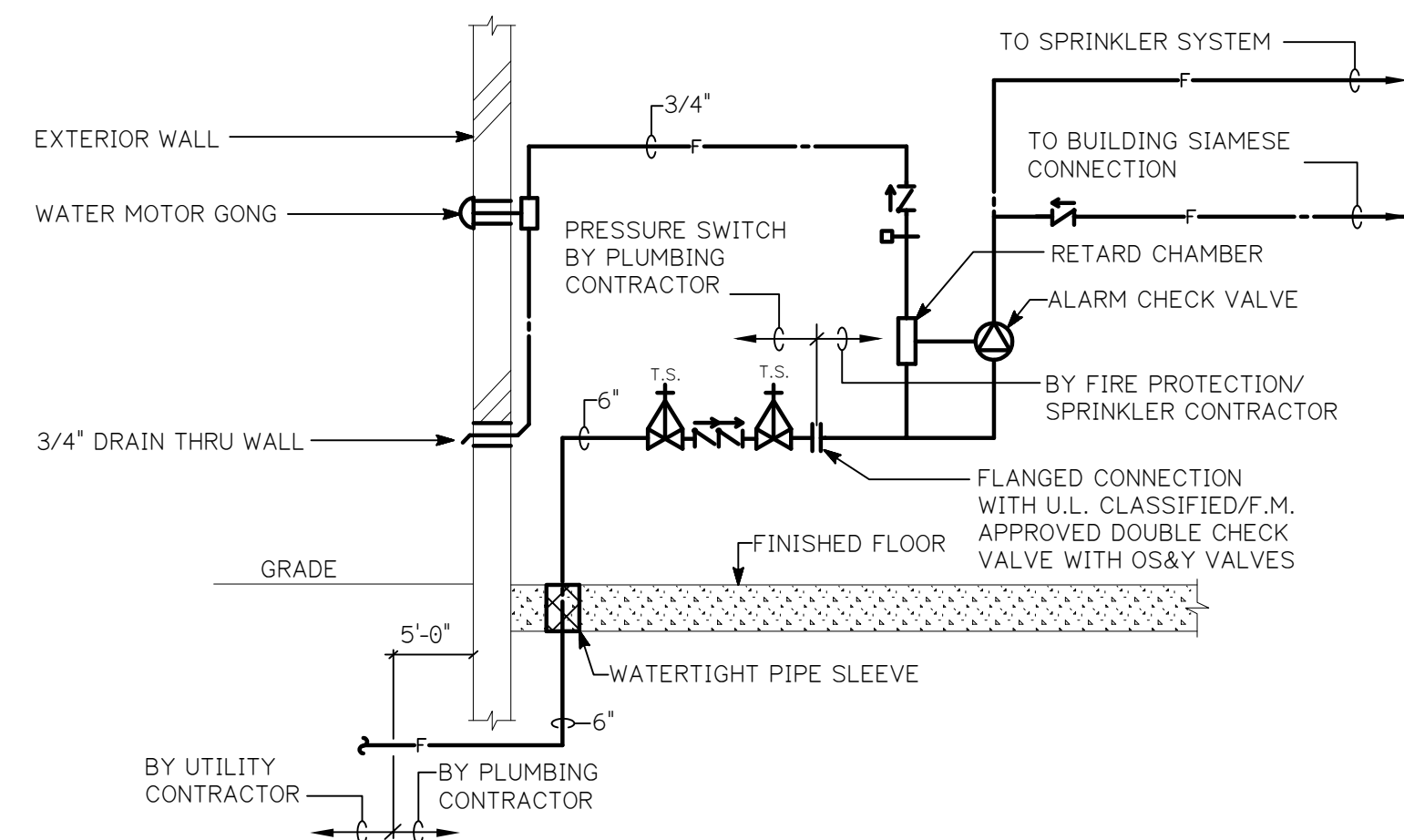
NO SCALE

NOTE:
 SUPPORT PUMP FROM PIPING ONLY. PROVIDE ADJUSTABLE PIPE SADDLE AND SUPPORT WITH NEOPRENE GASKETS AS REQUIRED.



3-WAY MIXING VALVE

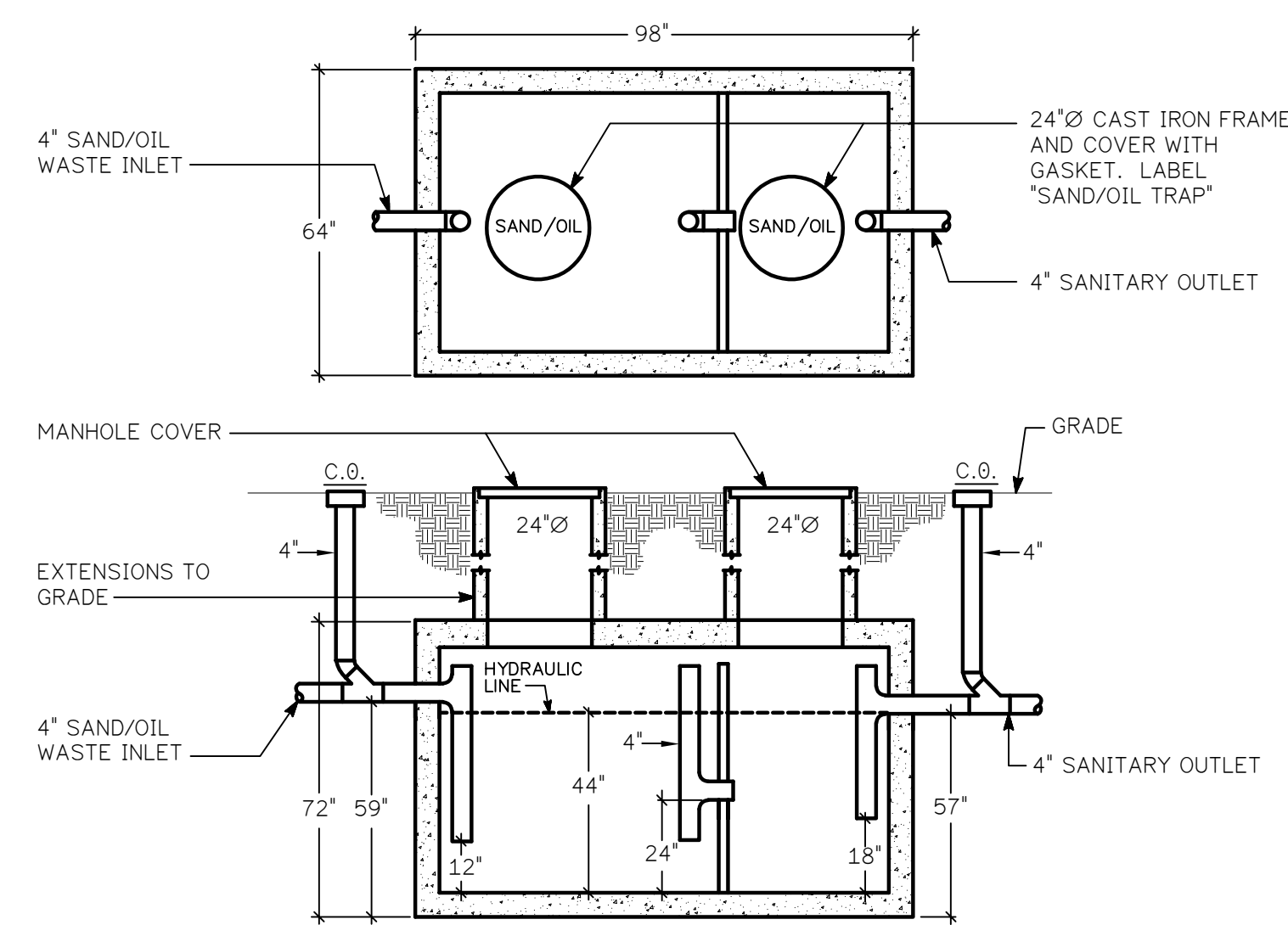
NO SCALE



FIRE SERVICE PIPING SCHEMATIC

NO SCALE

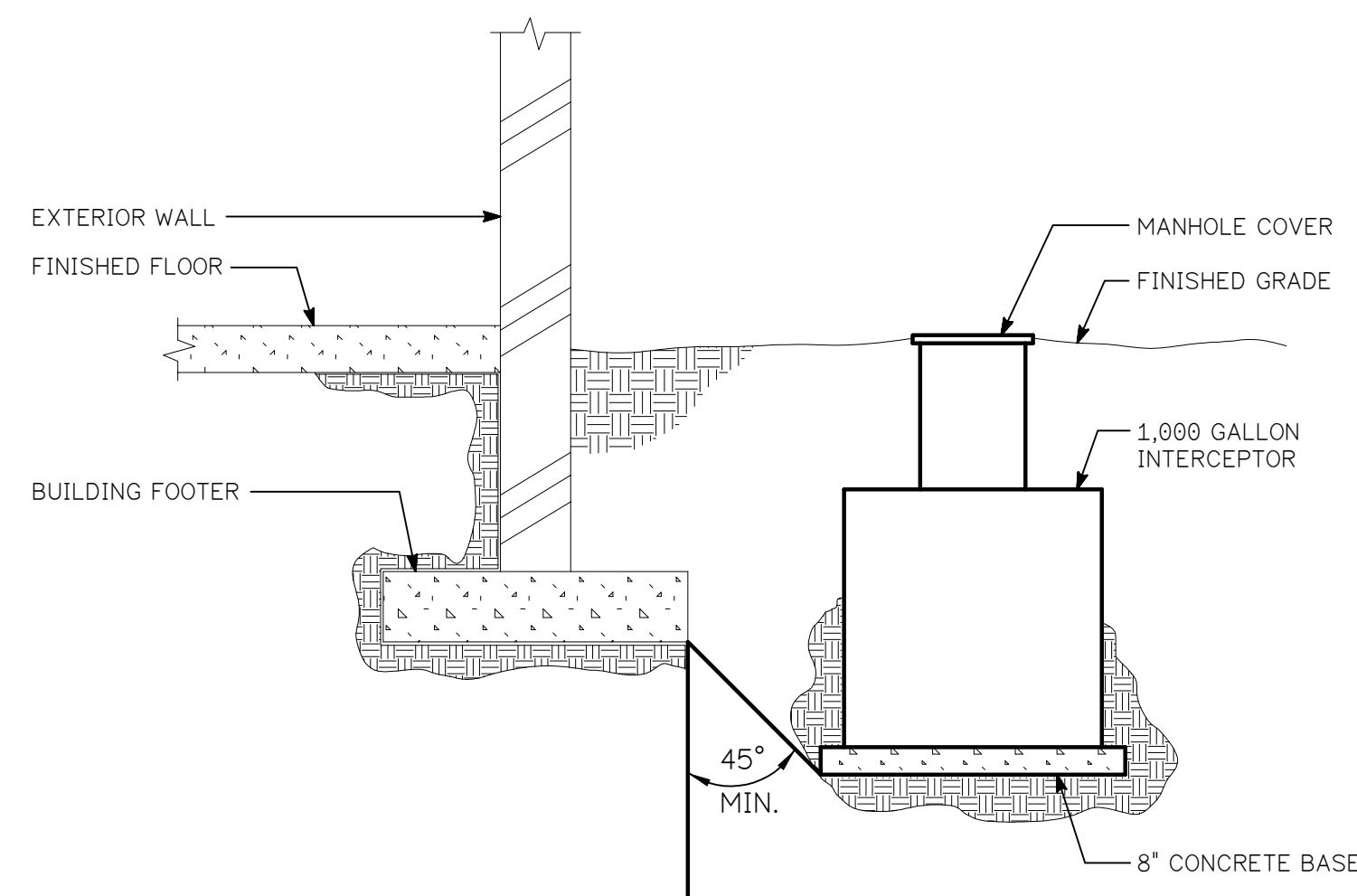
- NOTES:
- REFER TO FLOOR PLANS FOR PIPE SIZES. FINAL FIRE PROTECTION SYSTEM, PIPE SIZES AND SYSTEM DETAILS TO BE DETERMINED BY FIRE PROTECTION/SPRINKLER CONTRACTOR.
 - PLUMBING CONTRACTOR TO INSTALL INCOMING SERVICE UP TO AND INCLUDING U.L. CLASSIFIED/F.M. APPROVED DOUBLE CHECK VALVE ASSEMBLY. PLUMBING CONTRACTOR TO PROVIDE FLANGED CONNECTION DOWNSTREAM OF DOUBLE CHECK VALVE ASSEMBLY. FIRE PROTECTION/SPRINKLER CONTRACTOR TO INSTALL ALL PIPING, VALVES, EQUIPMENT ETC. DOWNSTREAM OF FLANGED CONNECTION.



1,000 GALLON SAND/OIL INTERCEPTOR DETAIL

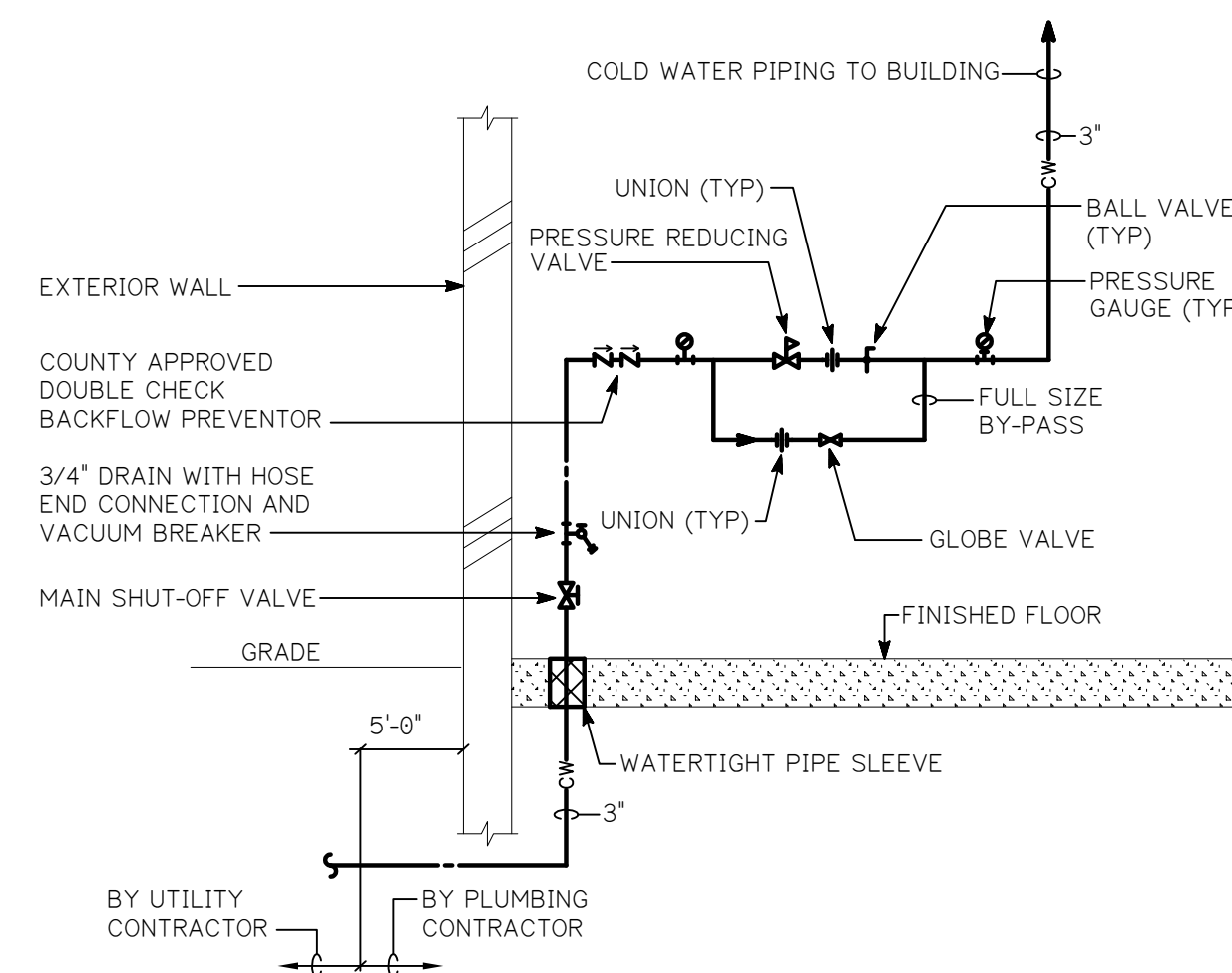
NO SCALE

- NOTES:
- SAND/OIL INTERCEPTOR TO BE IN ACCORDANCE WITH ALL LOCAL CODE CODES AND REQUIREMENTS.
 - TANK SHOWN IS MANUFACTURED BY MAYER BROS., INC. COORDINATE SIZE AND DIMENSIONS WITH SELECTED MANUFACTURER AND WITH CIVIL DRAWINGS.
 - TANK DESIGNED FOR H-20 HEAVY DUTY TRAFFIC. EARTH COVER SHALL NOT EXCEED 5'-0" OR PER LOCAL CODES.



INTERCEPTOR INSTALLATION

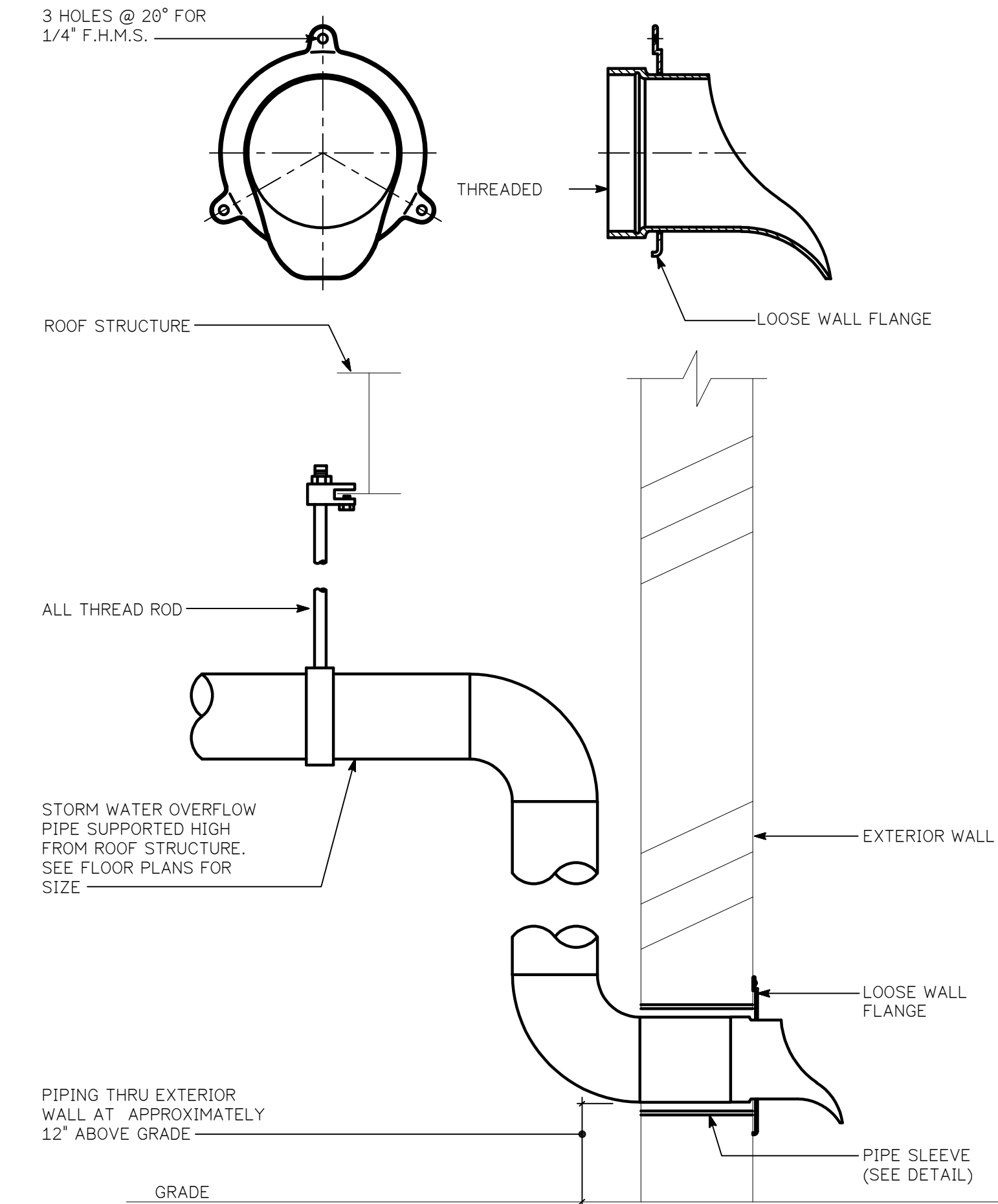
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WATER SERVICE PRESSURE REDUCING VALVE SCHEMATIC

NO SCALE

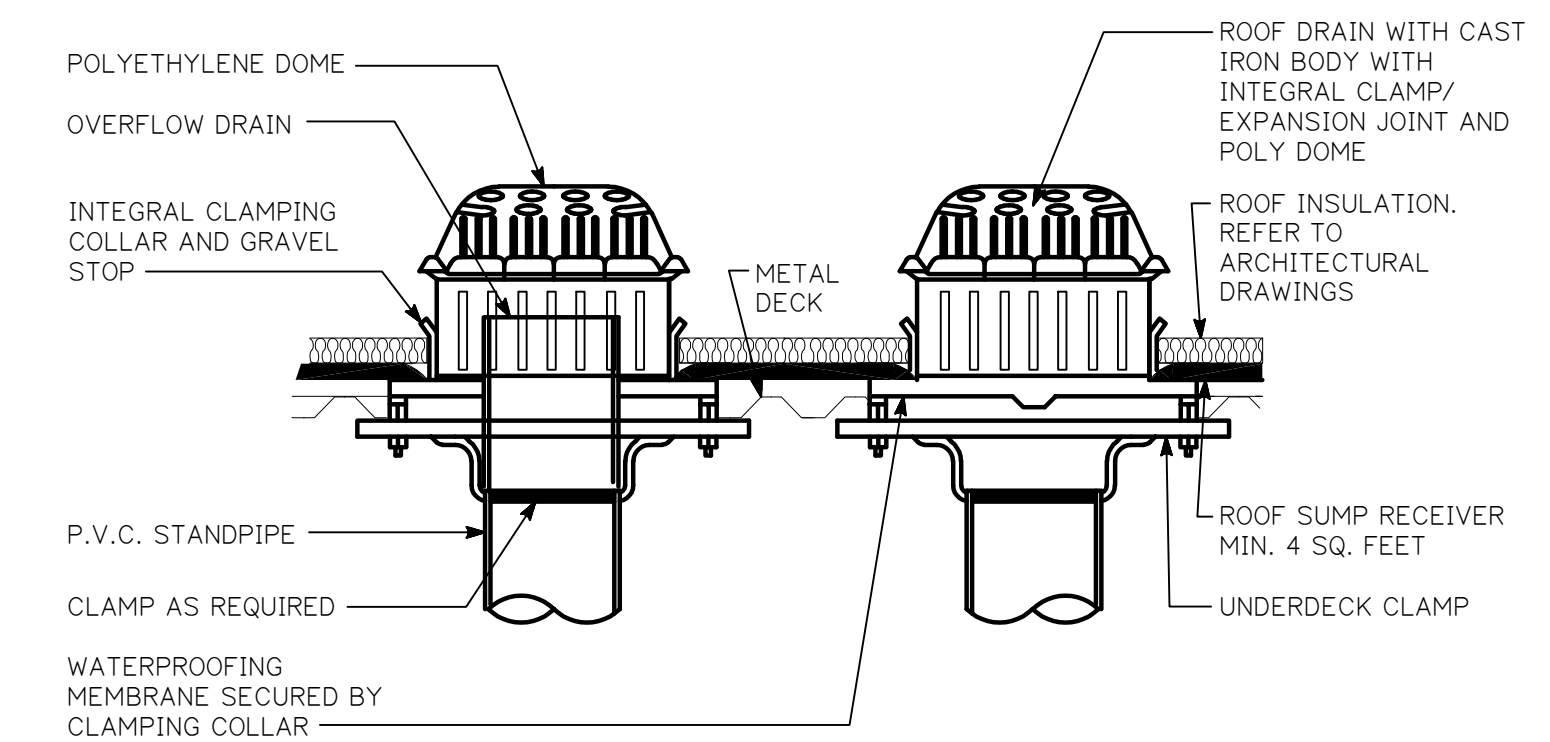
- NOTES:
- CONTRACTOR SHALL PROVIDE WATER FLOW AND PRESSURE TEST PRIOR TO INSTALLATION.
 - COORDINATE WATER METER TYPE AND INSTALLATION REQUIREMENTS WITH LOCAL COUNTY WATER DEPARTMENT.
 - PRESSURE SHALL BE REDUCED TO 70 PSI. COORDINATE WITH CIVIL ENGINEER.
 - THE 2" DOMESTIC WATER METER WILL BE LOCATED OUTSIDE IN A VAULT. REFER TO CIVIL DRAWINGS.



STORM WATER OVERFLOW PIPE THRU EXTERIOR WALL

NO SCALE

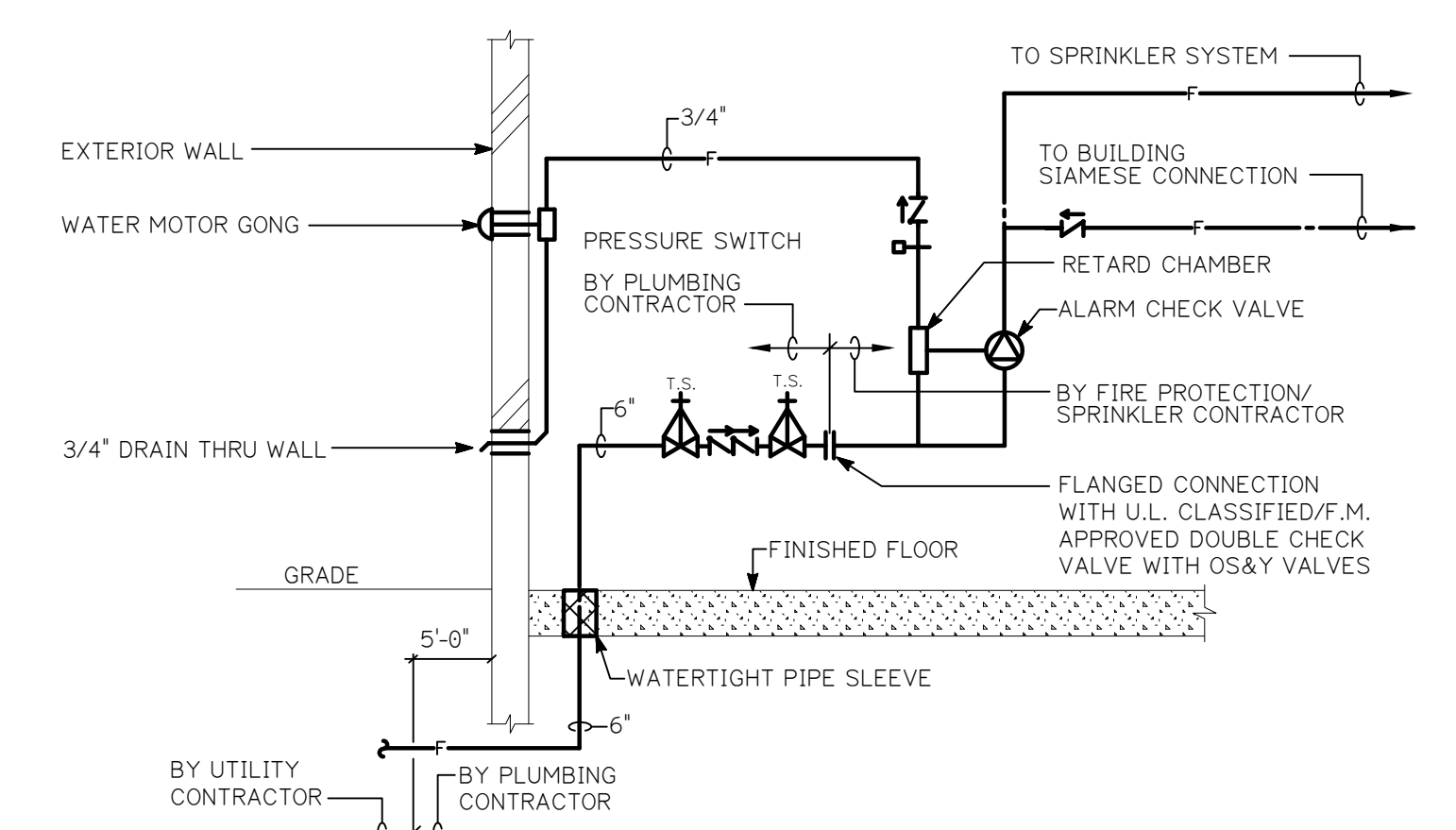
- NOTE:
- DOWNSPOUT NOZZLE SHALL BE WADE MODEL 3940 OR EQUAL WITH NICKLE FINISH.



ROOF DRAIN & OVERFLOW DRAIN

NO SCALE

- NOTES:
- ROOF DRAIN SHALL BE J.R. SMITH MODEL #1010.
 - OVERFLOW DRAIN SHALL BE J.R. SMITH MODEL #1070.



FIRE SERVICE PIPING SCHEMATIC

NO SCALE

- NOTES:
- REFER TO FLOOR PLANS FOR PIPE SIZES. FINAL FIRE PROTECTION SYSTEM, PIPE SIZES AND SYSTEM DETAILS TO BE DETERMINED BY FIRE PROTECTION/SPRINKLER CONTRACTOR.
 - PLUMBING CONTRACTOR TO INSTALL INCOMING SERVICE UP TO AND INCLUDING U.L. CLASSIFIED/F.M. APPROVED DOUBLE CHECK VALVE ASSEMBLY. PLUMBING CONTRACTOR TO PROVIDE FLANGED CONNECTION DOWNSTREAM OF DOUBLE CHECK VALVE ASSEMBLY. FIRE PROTECTION/SPRINKLER CONTRACTOR TO INSTALL ALL PIPING, VALVES, EQUIPMENT ETC. DOWNSTREAM OF FLANGED CONNECTION.

ELECTRIC WATER HEATER SCHEDULE

ITEM#	AREA SERVED	NOMINAL TANK SIZE (GAL.)	DIAMETER (IN.)	HEIGHT (IN.)	RECOVERY RATE (G.P.H.) @ 90° RISE	PIPE CONNECTIONS		K.W.	ELECTRICAL DATA	OPERATING WEIGHT (LBS.)	MOUNTING LOCATION	MODEL #	MANUFACTURER
						INLET	OUTLET						
EWH-1	CUSTOMER AREA	30	22"	31"	21	3/4"	3/4"	4.5	277V/1Ø	350	HIGH ON WALL, ABOVE MOP SINK	PCE-30-28LSA	STATE
EWH-2	TECH AREA	50	21"	55"	21	3/4"	3/4"	4.5	277V/1Ø	550	ABOVE CEILING	PCE-52-20RTA	STATE
EWH-3,4	SHOP SINK, EYE WASH	30	22"	31"	20	3/4"	3/4"	4.5	277V/1Ø	350	10'-0" AFF ON WALL	PCE-30-28LSA	STATE

NOTES:
1) 1 RW WILL RAISE 4.1 GALLONS 100°F PER HOUR.
2) PROVIDE HEAT TRAPS AT INLET/OUTLET CONNECTIONS.
3) STORAGE WATER TEMPERATURE SHALL BE SET AT 140°F.

SAND/OIL INTERCEPTER

LOCATION	SQ.FT.
SERVICE DRIVELANES	1,680
EX. SERVICE DEPARTMENT	5,730
SERVICE DEPARTMENT	5,030
TOTAL SQUARE FOOTAGE AREA=	12,440

BASED ON THE 2018 INTERNATIONAL PLUMBING CODE
CHAPTER 10, SECTION #1003.4.2.2

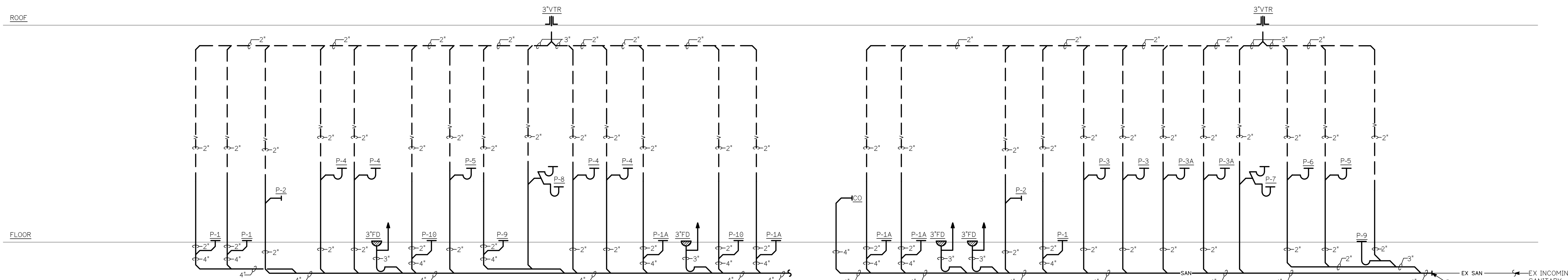
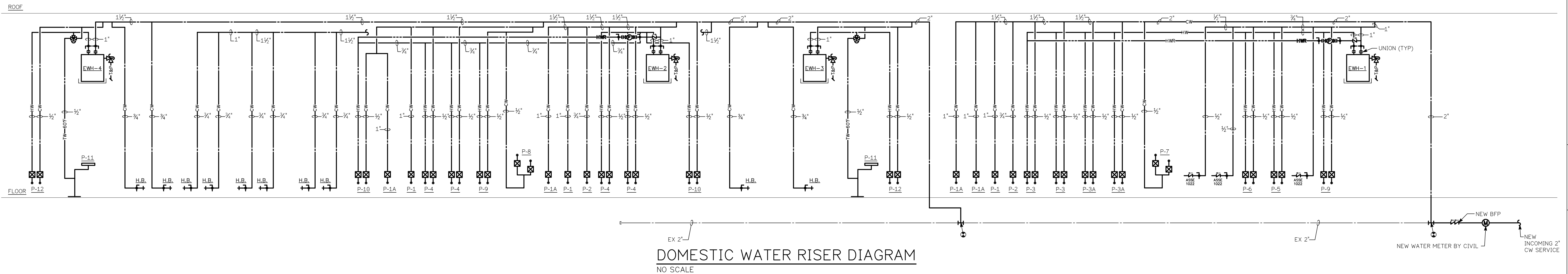
FIRST 100 SQ.FT. REQUIRES 6 CUBIC FEET, ADDITIONAL
AREA REQUIRES 1 CUBIC FOOT FOR EVERY 100 SQ.FT.

$(12,440-100)/100 = 124 \rightarrow 124 * 6 = 130$
130 CUBIC FEET = 1,000 GALLONS

* A 1,000 GALLON INTERCEPTER WILL BE PROVIDED *

PLUMBING FIXTURE SCHEDULE

ITEM#	DESCRIPTION	PIPE SIZES				TRAP TYPE	REMARKS
		H.W.	C.W.	SAN.	VENT		
P-1	WATERCLOSET (FLUSH VALVE)		1"	4"	2"	INTEGRAL	
P-1A	WATERCLOSET (FLUSH VALVE)		1"	4"	2"	INTEGRAL	ADA COMPLIANT
P-2	CUSTOMER URINAL (FLUSH VALVE)		3/4"	2"	2"	INTEGRAL	ADA COMPLIANT
P-3	COUNTERTOP LAVATORY	1/2"	1/2"	2"	2"	"P"	
P-3A	COUNTERTOP LAVATORY	1/2"	1/2"	2"	2"	"P"	ADA COMPLIANT
P-4	TECH WALL HUNG LAVATORY	1/2"	1/2"	2"	2"	"P"	ADA COMPLIANT
P-5	BREAKROOM SINK	1/2"	1/2"	2"	2"	"P"	ADA COMPLIANT
P-6	CAFE SINK	1/2"	1/2"	2"	2"	"P"	ADA COMPLIANT
P-7	CUSTOMER WATER COOLER		1/2"	2"	2"	"P"	ADA COMPLIANT
P-8	TECH WATER COOLER		1/2"	2"	2"	"P"	ADA COMPLIANT
P-9	JANITORS SINK	1/2"	1/2"	3"	2"	"P"	FLOOR MOUNTED
P-10	PRIVATE SHOWER	1/2"	1/2"	2"	2"	"P"	
P-11	SINGLE EYE WASH STATION		1/2"				60°F TEPID HOT WATER
P-12	HEAVY-DUTY SHOP WORK SINK	3/4"	3/4"	3"	2"	"P"	

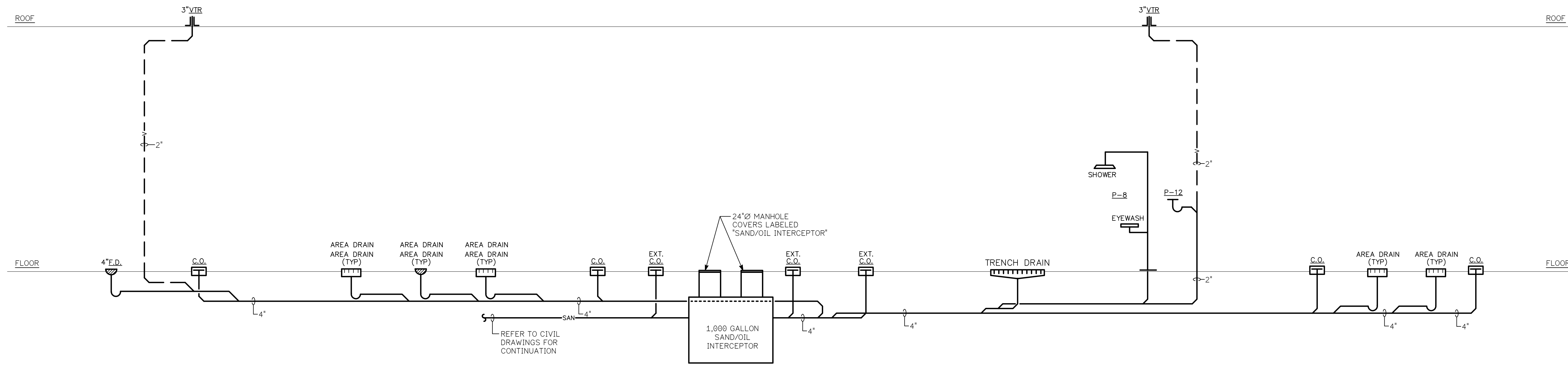


SANITARY RISER DIAGRAM

NO SCALE

NOTES:

- 1) ALL VENTING PIPING FROM HORIZONTAL BRANCH SHALL BE FROM TOP OF BRANCH AT A MINIMUM 45 DEGREE ANGLE AND SLOPED UPWARD. NO FLAT VENTING IS ALLOWED. REFER TO PLUMBING CODE SECTION 905.4.
- 2) VERTICAL DISTANCE BETWEEN FIXTURE OUTLET AND TRAP SHALL NOT EXCEED 24". REFER TO PLUMBING CODE SECTION 1002.1.



SAND/OIL RISER DIAGRAM

NO SCALE

NOTES:

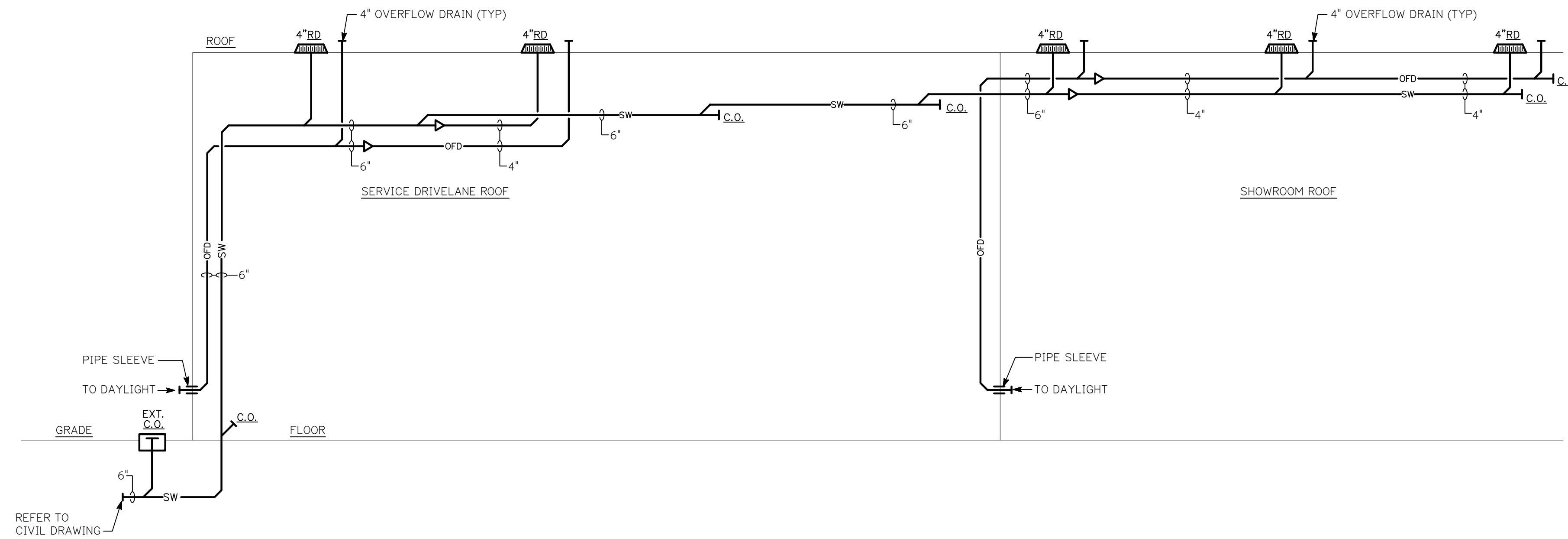
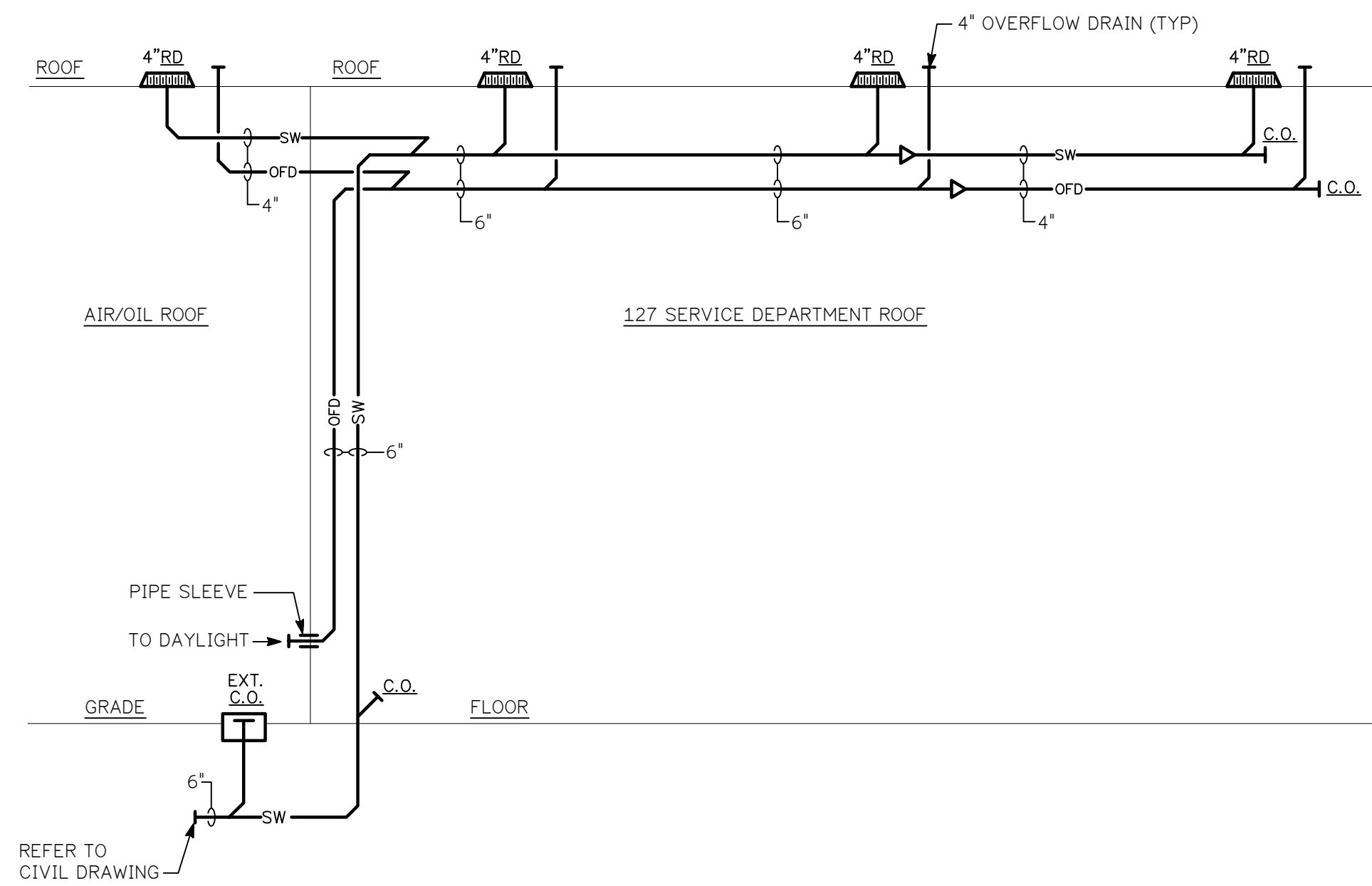
- 1) ALL VENTING PIPING FROM HORIZONTAL BRANCH SHALL BE FROM TOP OF BRANCH AT A MINIMUM 45 DEGREE ANGLE AND SLOPED UPWARD. NO FLAT VENTING IS ALLOWED. REFER TO PLUMBING CODE SECTION 905.4.
- 2) VERTICAL DISTANCE BETWEEN FIXTURE OUTLET AND TRAP SHALL NOT EXCEED 24". REFER TO PLUMBING CODE SECTION 1002.1.

TOTAL ROOF AREA = 430 SQ.FT. / (1) ROOF DRAIN = 430 SQ.FT.

TOTAL ROOF AREA = 5,940 SQ.FT. / (3) ROOF DRAINS = 1,980 SQ.FT. EACH

TOTAL ROOF AREA = 2,240 SQ.FT. / (2) ROOF DRAINS = 1,120 SQ.FT. EACH

TOTAL ROOF AREA = 4,110 SQ.FT. / (3) ROOF DRAINS = 1,370 SQ.FT. EACH



STORM WATER RISER DIAGRAMS

NO SCALE

NOTE:

ALL MINIMUM VERTICAL AND HORIZONTAL PIPE SIZES ARE BASED ON THE INTERNATIONAL PLUMBING CODE, FIGURE 1106.1 (2.8" RAINFALL FOR VIRGINIA) AND TABLES 1106.2 AND 1106.3 FOR LEADER SIZING. ALL PIPING SHALL SLOPE AT MINIMUM 1/8" PER FOOT.

CMA HYUNDAI WINCHESTER
RENOVATION
3951 VALLEY PIKE WINCHESTER
VA, CMA008a

CMA

3985 VALLEY PIKE
WINCHESTER, VA
23042

Professional Certification:

No.	Issue / Revision	Date
100%	Bid Set	2023.07.27
	Drawn By:	MRB
	Checked By:	GWB
	Plot Date:	

Sheet Number
P-602
Sheet Title
RISER DIAGRAMS

Project Number: IDC #23-010 | File Name:

