

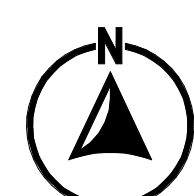
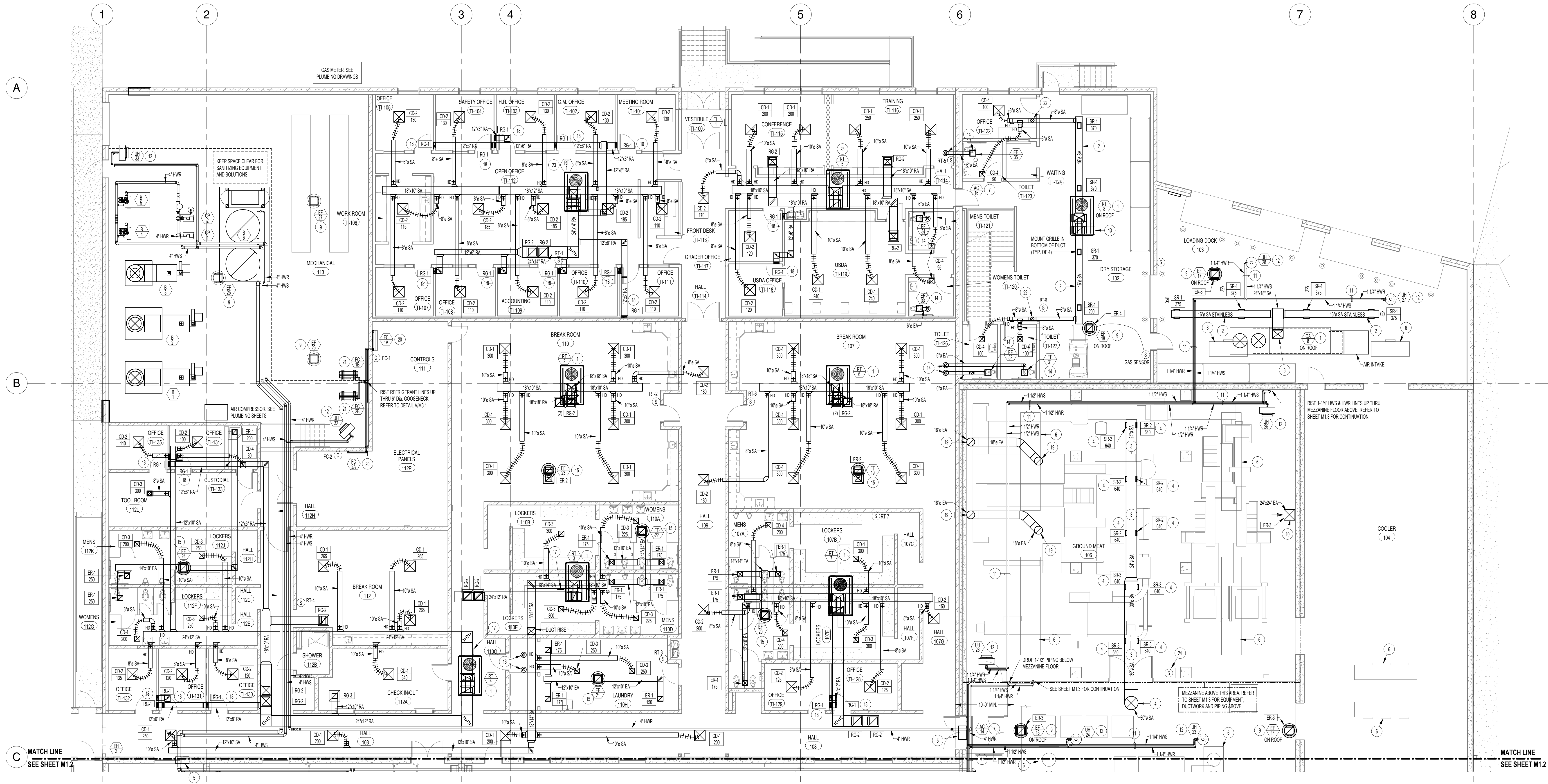
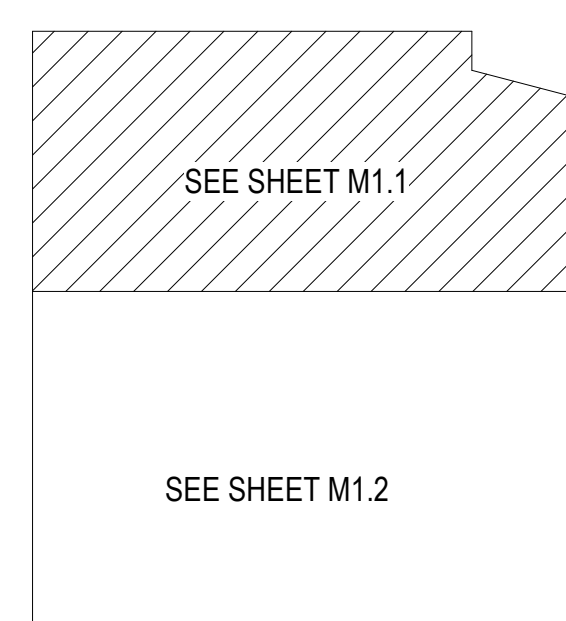
SCALE HOUSE MECHANICAL PLAN

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

PLAN NOTES:

1. ROOF MOUNTED EQUIPMENT FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. EXTEND SUPPLY AND RETURN DUCTS DOWN AND CONNECT TO CEILING DIFFUSERS OR GRILLES AS SHOWN. DUCTWORK IN DRY STORAGE, OFFICE AREA, AND LOCKER ROOMS TO BE GALVANIZED STEEL CONSTRUCTION WITH 1" ACOUSTICAL LINER. REFER TO DETAILS LM3.1 AND MM3.1 FOR TYPICAL CONSTRUCTION.
2. RUN DUCTWORK AS SHOWN JUST BELOW ROOF JOISTS. SUPPORT FROM ROOF STRUCTURE. COORDINATE DUCT LOCATIONS WITH OTHER DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, BUILDINGS STRUCTURE, EQUIPMENT STRUCTURES AND SUPPORTS. MAKE ADJUSTMENTS AS NECESSARY.
3. DROP DUCTWORK DOWN BELOW MEZZANINE FLOOR. CONTINUE DUCT AS SHOWN TO (10) GRILLES AS SHOWN. MOUNT GRILLES IN SIDE OF DUCT. ALL DUCTWORK TO BE STAINLESS STEEL CONSTRUCTION. COORDINATE WITH OTHER DUCTS, PIPING, ELECTRICAL CONDUITS, BUILDINGS STRUCTURE, EQUIPMENT STRUCTURES AND SUPPORTS AND WITH CONVEYOR RAILS. MAKE ADJUSTMENTS AS NECESSARY. KEEP DUCT AS HIGH AS POSSIBLE.
4. PROVIDE STAINLESS STEEL GRILLES AS SPECIFIED. MOUNT IN SIDE OF DUCT AND BALANCE TO CFM AS CALLED OUT. MOUNT GRILLE AT 45 DEG. BELOW HORIZONTAL.
5. TYPICAL BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES. ALL HEATING LINES, DUCTWORK, HYDRULIC PIPING, REFRIGERANT PIPING, ETC. TO BE RUN THRU BLOCK-OUTS. NO HOLES LARGER THAN 2" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERING. OPENINGS TO BE SEALED AROUND PIPING AND DUCTWORK BY GENERAL CONTRACTOR.
6. REFRIGERANT EQUIPMENT SUPPLIED AND INSTALLED BY REFRIGERANT CONTRACTOR. COORDINATE ALL DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH REFRIGERANT PIPING AND EQUIPMENT. REFER TO REFRIGERANT DRAWINGS.
7. PROVIDE AND INSTALL AIR CURTAIN COMPLETE WITH MOTION SENSOR AS SPECIFIED. MOUNT UNIT AT 4" ABOVE DOOR OR OPENING. REFER TO DETAIL EM3.1 FOR TYPICAL INSTALLATION.
8. DROP 24"x18" DUCT DOWN BETWEEN ROOF JOISTS. COORDINATE WITH JOIST LOCATIONS AND WITH UNIT LOCATION. DUCT TRANSITIONS TO HAPPEN INSIDE ROOF CURB SPACE. REFER TO STRUCTURAL DRAWINGS FOR ROOF JOIST LAYOUT.
9. EXHAUST FAN AND BACK-DRAFT DAMPER FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. PROVIDE 24"x24" EXHAUST GRILLE AS SPECIFIED AND CONNECT TO DUCTWORK AT JUST BELOW ROOF TEES OR JOISTS.
10. PROVIDE 24"x24" EXHAUST GRILLE AS SPECIFIED AT CEILING OF MAIN LEVEL. RISE 24"x24" DUCT UP THRU MEZZANINE LEVEL ABOVE TO ROOF MOUNTED EXHAUST FAN. REFER TO LARGE SCALE MEZZANINE 201 PLAN ON SHEET M1.3 FOR CONTINUATION OF DUCTWORK ABOVE.
11. RUN HOT WATER SUPPLY AND RETURN PIPING AS SHOWN TO CONNECT TO EQUIPMENT. SUPPORT PIPING FROM ROOF OR FLOOR ABOVE. COORDINATE PIPING WITH OTHER PIPING, DUCTWORK AND EQUIPMENT.
12. PROVIDE AND INSTALL HOT WATER UNIT HEATER AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE COORDINATE ACTUAL UNIT LOCATION WITH OTHER PIPING, DUCTWORK AND EQUIPMENT. CONNECT TO HOT WATER SUPPLY AND RETURN PIPING WITH SHUT-OFF VALVES, CONTROL VALVE AND FLEXIBLE HOSES. REFER TO DETAILS MM3.1 AND PM3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.
13. DROP 18"x18" RETURN AIR DUCT DOWN THRU ROOF. TURN DUCT 90 DEGREES IN JOIST SPACE AND LEAVE OPEN TO ROOM. COORDINATE RETURN DUCT AND SUPPLY DUCTS. SUPPLY DUCT TO PASS BELOW RETURN DUCT.
14. PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN AS SPECIFIED. EXTEND 6" DIA. DUCT AS SHOWN AND RISE UP THRU LOWER ROOF WITH ROOF CAP. REFER TO DETAIL DM3.1 FOR TYPICAL INSTALLATION.
15. ROOF MOUNTED EXHAUST FAN FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. EXTEND 14"x14" EXHAUST DUCT DOWN AS REQUIRED TO CONNECT TO EXHAUST REGISTERS) AS SHOWN. REFER TO DETAIL CM3.1 FOR TYPICAL INSTALLATION.
16. RISE 6" DIA. DRYER VENT UP THRU ROOF WITH ROOF CAP. PROVIDE FLEXIBLE METAL DUCT FOR FINAL CONNECTION TO DRYER AND TIGHTEN WITH CLAMP. REFER TO DETAIL HM3.1 FOR TYPICAL INSTALLATION.
17. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT FOR UNIT SHUT-DOWN. CONNECT DETECTOR TO FIRE ALARM SYSTEM (SEE ELECTRICAL DRAWINGS).
18. INSTALL RETURN GRILLE AT 6" ABOVE FLOOR. RISE 12"x12" UNLINED DUCT IN WALL CAVITY TO ABOVE CEILING. REFER TO DETAIL NM3.1 FOR TYPICAL INSTALLATION.
19. 18" DIA. EXHAUST DUCT DOWN FROM MEZZANINE LEVEL. (REFER TO MEZZANINE 201 PLAN ON SHEET M1.3) EXTEND 18" DIA. DUCT TO BLENDER AND MAKE FINAL CONNECTION. SEAL CONNECTION AIR TIGHT. TYPICAL OF 2) KEEP DUCT AS TIGHT AS POSSIBLE TO FLOOR MEZZANINE FLOOR STRUCTURE ABOVE.
20. PROVIDE AND INSTALL MIN-SPLIT SYSTEM WITH WALL MOUNTED FAN COIL IN ROOM AT 10'-0". RISE REFRIGERANT PIPING UP THRU ROOF TO ROOF MOUNTED CONDENSING UNIT. COORDINATE UNIT LOCATION WITH ELECTRICAL AND/OR CONTROL PANELS. (REFER TO ELECTRICAL DRAWINGS.)
21. MOUNT OUTDOOR UNIT ON ROOF WITH PYRAMID TYPE SUPPORTS. DROP REFRIGERANT LINES DOWN THRU ROOF INSIDE 6" DIA. PIPE WITH GOOSENECK. REFER TO DETAIL LM3.1 FOR PIPING THRU ROOF AND TO DETAIL MM3.1 FOR TYPICAL INSTALLATION AND REFRIGERANT PIPING CONNECTIONS.
22. DROP 8" DIA. DUCT DOWN TO JUST ABOVE LOWER CEILING. CONNECT TO DIFFUSERS AS SHOWN. COORDINATE DUCT DROP WITH BUILDING STRUCTURE.
23. ROOF MOUNTED EQUIPMENT FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. EXTEND TOP OF SUPPLY AND RETURN DUCTS DOWN TO 1'-0" BELOW BOTTOM OF ROOF JOISTS AND PROVIDE 90 DEGREE ELBOW ON EACH DUCT. 90 DEGREE ELBOWS ARE TO FACE IN OPPOSITE DIRECTIONS AND BE LEFT OPEN TO SPACE.
24. MOUNT TEMPERATURE SENSOR ON WALL AT 5'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH OTHER PIPING AND EQUIPMENT. PROVIDE WATER-PROOF COVER OVER SENSOR WITH SENSING BULB THRU BOTTOM OF COVER. SEAL BULB PENETRATION WATER TIGHT. REFER TO DETAIL BM3.1 FOR TYPICAL INSTALLATION.

KEY PLAN



AREA 1 MECH FLOOR PLAN

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

INTERIOR FINISH
INTERMOUNTAIN PACKING1096 E IONA ROAD
IDAHO FALLS, IDAHO 83401

AREA 1 MECHANICAL FLOOR PLAN

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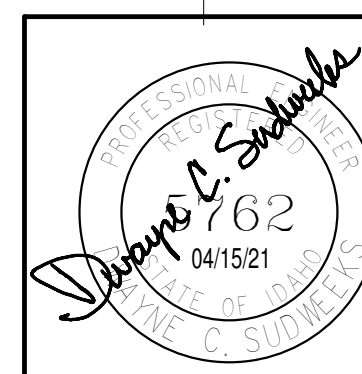
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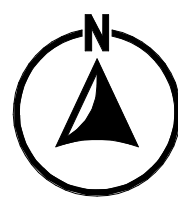
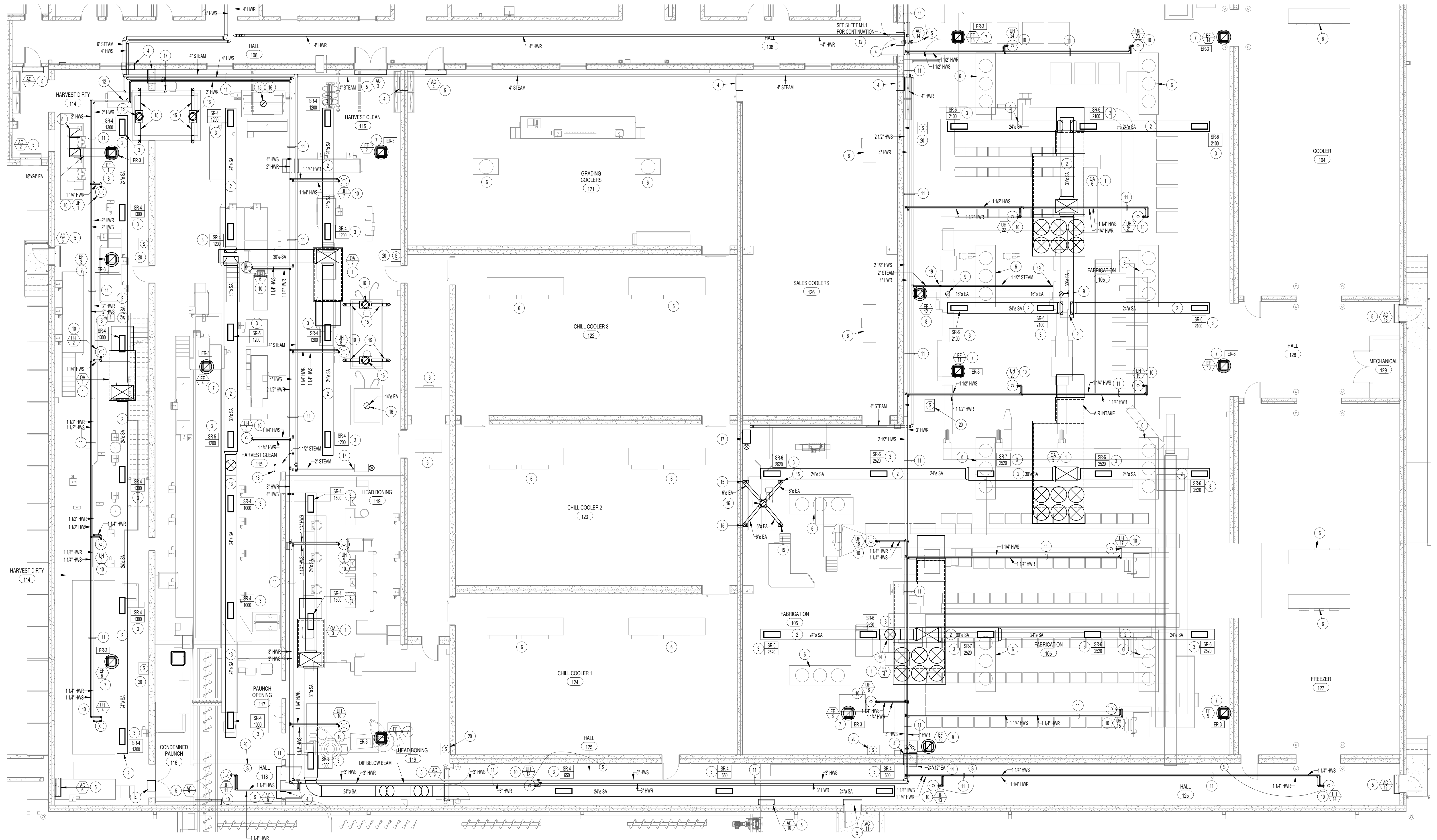
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M1.1



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AREA 2 MECH FLOOR PLAN

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

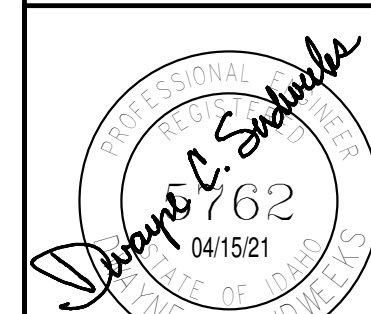
PLAN NOTES:

- 1 ROOF MOUNTED EQUIPMENT FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. EXTEND 3000 SUPPLY PLENUM DOWN AS REQUIRED TO CONNECT ROUND DUCTS TO PLenums AS SHOWN. ALL DUCTWORK TO BE STAINLESS STEEL CONSTRUCTION. ROUND DUCTS TO HAVE BELL MOUTH CONNECTION.
- 2 RUN DUCTWORK AS SHOWN JUST BELOW CONCRETE ROOF TEES. SUPPORT FROM ROOF TEES. ALL DUCTWORK AND GRILLES TO BE STAINLESS STEEL CONSTRUCTION. COORDINATE DUCT LOCATIONS WITH OTHER DUCTWORK, PIPING, ELECTRICAL CONDUITS, BUILDINGS STRUCTURE, EQUIPMENT STRUCTURES AND SUPPORTS AND WITH CONVEYOR RAILS. MAKE ADJUSTMENTS AS NECESSARY.
- 3 PROVIDE STAINLESS STEEL GRILLES AS SPECIFIED. MOUNT IN BOTTOM OF DUCT AND BALANCE TO CRAS CALLED OUT.
- 4 TYPICAL BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES. ALL HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC. TO BE RUN THRU BLOCK-OUTS. NO HOLES LARGER THAN 2" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERING. OPENINGS TO BE SEALED AROUND PIPING AND DUCTWORK BY GENERAL CONTRACTOR.
- 5 PROVIDE AND INSTALL AIR CURTAIN COMPLETE WITH MOTION SENSOR AS SPECIFIED. MOUNT UNIT AT 4' ABOVE DOOR OR OPENING. REFER TO DETAIL EM3.1 FOR TYPICAL INSTALLATION.
- 6 REFRIGERANT EQUIPMENT SUPPLIED AND INSTALLED BY REFRIGERANT CONTRACTOR. COORDINATE ALL DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH REFRIGERANT PIPING AND EQUIPMENT. REFER TO REFRIGERANT DRAWINGS.
- 7 ROOF MOUNTED EXHAUST FAN, MOTORIZED DAMPER AND FILTER SECTION FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. PROVIDE 24x24 EXHAUST GRILLE AS SPECIFIED AND CONNECT TO DUCTWORK AT JUST BELOW CONCRETE ROOF TEES.
- 8 ROOF MOUNTED EXHAUST FAN AND BACK-DRAFT DAMPER FURNISHED AND INSTALLED AS PART OF THE BUILDING SHELL PACKAGE. RUN INKA DUCT AT BOTTOM OF CONCRETE ROOF TEES AS SHOWN AND DROP DOWN ABOVE EQUIPMENT AND CONNECT. PROVIDE DUCT TRANSITIONS AND CONNECTIONS IN FIELD AS REQUIRED FOR EQUIPMENT PROVIDED.
- 9 DROP 10" DIA EXHAUST DUCT DOWN AND CONNECT TO SHRINK WRAP EQUIPMENT. FIELD VERIFY EXACT SIZE AND LOCATION OF DUCT CONNECTION. RUN HORIZONTAL DUCT BELOW ROOF LEVEL. RISE UP THRU ROOF AND CONNECT TO ROOF MOUNTED EXHAUST FAN.
- 10 PROVIDE AND INSTALL HOT WATER UNIT HEATER AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE COORDINATE ACTUAL UNIT LOCATION WITH OTHER PIPING, DUCTWORK AND EQUIPMENT. CONNECT TO HOT WATER SUPPLY AND RETURN PIPING WITH SHUT-OFF VALVES, CONTROL VALVE AND FLEXIBLE HOSES. REFER TO DETAIL KM3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.
- 11 RUN STAINLESS STEEL HOT WATER SUPPLY AND RETURN PIPING AS SHOWN TO EQUIPMENT. SUPPORT PIPING FROM FLOOR ABOVE WITH STAINLESS STEEL SUPPORTS. COORDINATE PIPING WITH OTHER PIPING, DUCTWORK AND EQUIPMENT.
- 12 DROP HOT WATER SUPPLY AND RETURN PIPING DOWN TO PASS THRU BLOCK-OUT OPENING IN PRE-CAST WALL. PIPING TO BE BELOW LOWER ROOF. REFER TO SHEET M1.1 FOR CONTINUATION OF PIPING. OPENINGS TO BE SEALED AROUND PIPING AND DUCTWORK BY GENERAL CONTRACTOR.
- 13 DROP DUCTWORK DOWN BELOW MEZZANINE FLOOR. CONTINUE DUCT AS SHOWN TO (3) GRILLES AS SHOWN. ALL DUCTWORK TO BE STAINLESS STEEL CONSTRUCTION. COORDINATE WITH OTHER DUCTS, PIPING, ELECTRICAL CONDUITS, BUILDINGS STRUCTURE, EQUIPMENT STRUCTURES AND SUPPORTS AND WITH CONVEYOR RAILS. MAKE ADJUSTMENTS AS NECESSARY.
- 14 EXTEND 24x12 EXHAUST DUCT THRU OPENING IN PRE-CAST WALL. LEAVE DUCT OPEN TO HALLWAY SPACE FOR VENTILATION EXHAUST. PRE-CAST WALL OPENINGS TO BE SEALED AROUND PIPING AND DUCTWORK BY GENERAL CONTRACTOR.
- 15 FIELD VERIFY DUCT CONNECTION SIZE WITH EQUIPMENT PROVIDED. MATCH EXHAUST DUCT WITH EQUIPMENT. RISE 14" DIA DUCT UP THRU ROOF. COORDINATE DUCT LOCATION WITH CONCRETE TEE ROOF AND CORE DRILLS AS REQUIRED TO INSTALL DUCT.
- 16 RISE 14" DIA DISCHARGE DUCT UP THRU ROOF AND CONNECT TO EXHAUST FAN. ROOF MOUNTED EXHAUST FAN AND ROOF CURB BY EQUIPMENT SUPPLIER. REFER TO SHEET M1.0 FOR ROOF MOUNTED FANS.
- 17 DROP 2" STEAM LINE DOWN AND CONNECT TO MIXING VALVE PROVIDED BY EQUIPMENT SUPPLIER. FIELD VERIFY EXACT LOCATION OF EQUIPMENT AND EXACT SIZE OF PIPING REQUIRED. PROVIDE Drip TRAP AT END OF LINE AND RUN TO NEAREST FLOOR SINK OR FLOOR DRAIN.
- 18 EXTEND 1-1/2" STEAM LINE IN TO MEZZANINE ABOVE. REFER TO SHEET M1.3 FOR CONTINUATION OF STEAM PIPING.
- 19 DROP 1-1/2" STEAM LINE DOWN TO SHRINK WRAP EQUIPMENT. PROVIDE PRESSURE REDUCING VALVE FOR STEAM AND CONNECT TO EQUIPMENT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND SIZE OF PIPING CONNECTIONS. REFER TO DETAIL AM1.3 FOR TYPICAL INSTALLATION OF STEAM PRESSURE REDUCING VALVE.
- 20 MOUNT TEMPERATURE SENSOR ON WALL AT 8'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH OTHER PIPING AND EQUIPMENT. PROVIDE WATER PROOF COVER OVER SENSOR WITH SENSING BULB THRU BOTTOM OF COVER SEAL BULB PENETRATION WATER TIGHT. REFER TO DETAIL BM1.3 FOR TYPICAL INSTALLATION.

KEY PLAN

SEE SHEET M1.1

SEE SHEET M1.2



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DRAWING NO.:

M1.2

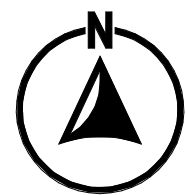
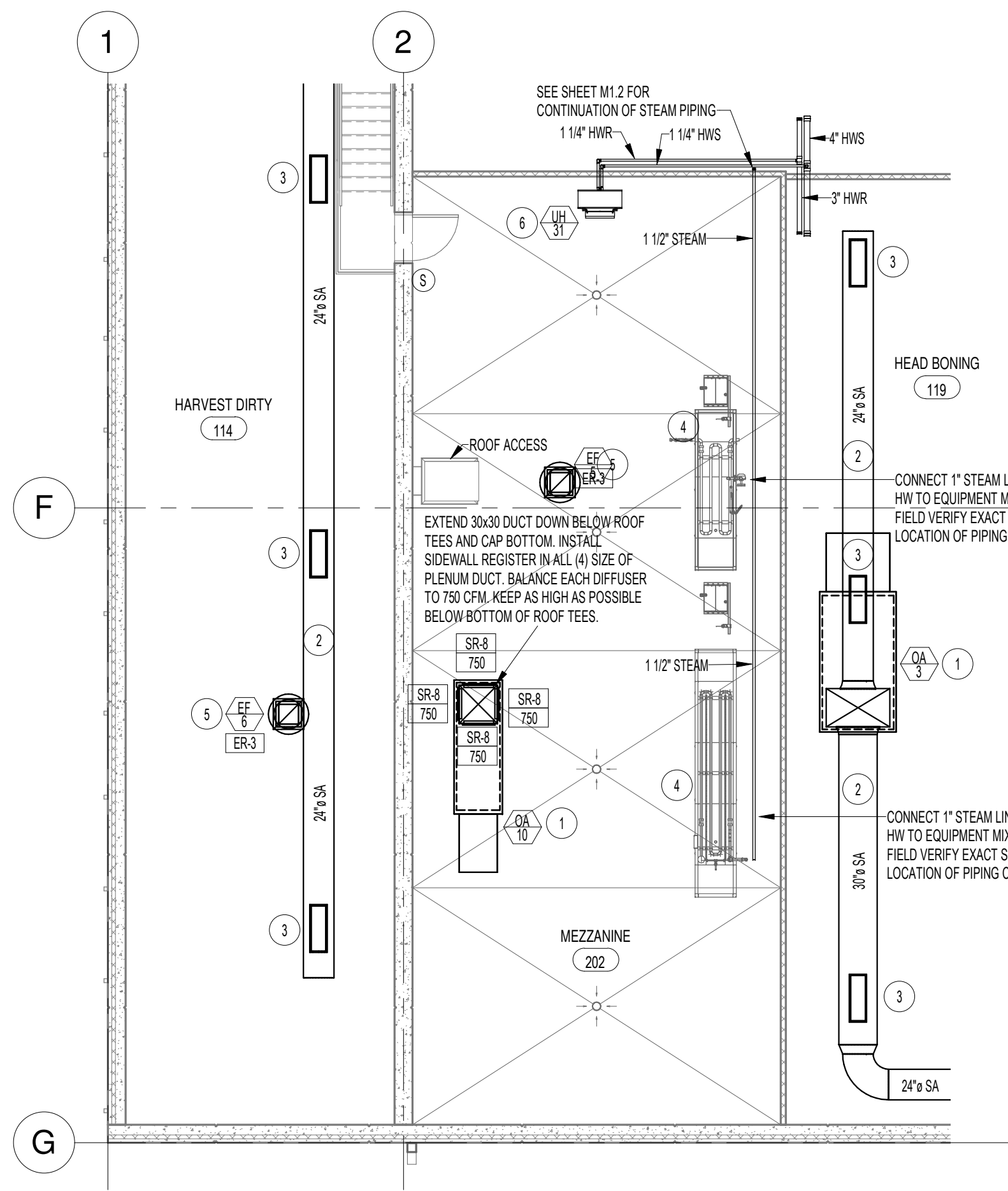
INTERIOR FINISH
INTERMOUNTAIN PACKING

1096 E IONA ROAD
IDAHO FALLS, IDAHO 83401

AREA 2&3 MECHANICAL FLOOR PLAN

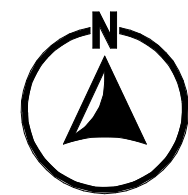
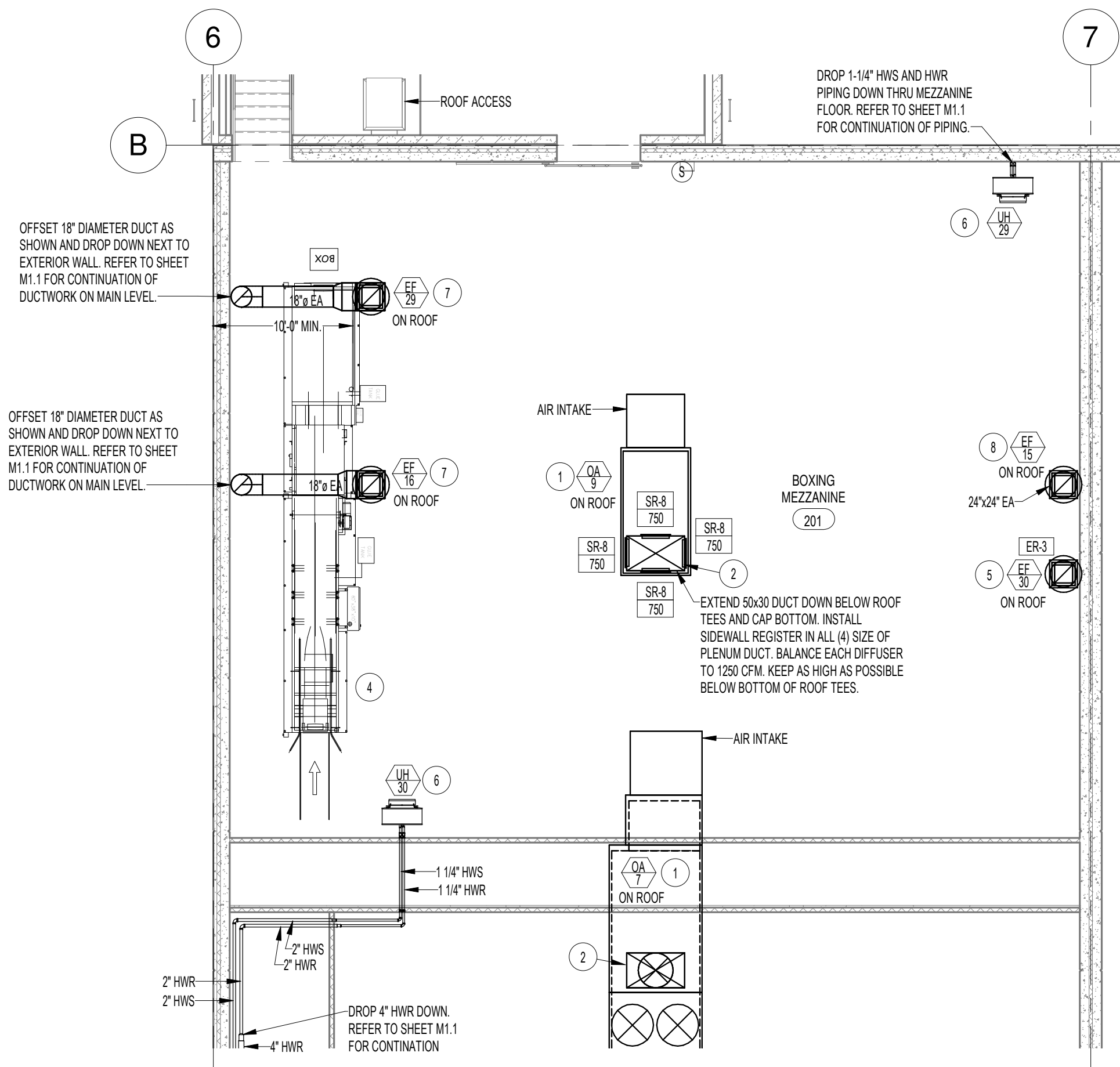
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MEZZANINE 202 MECHANICAL

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



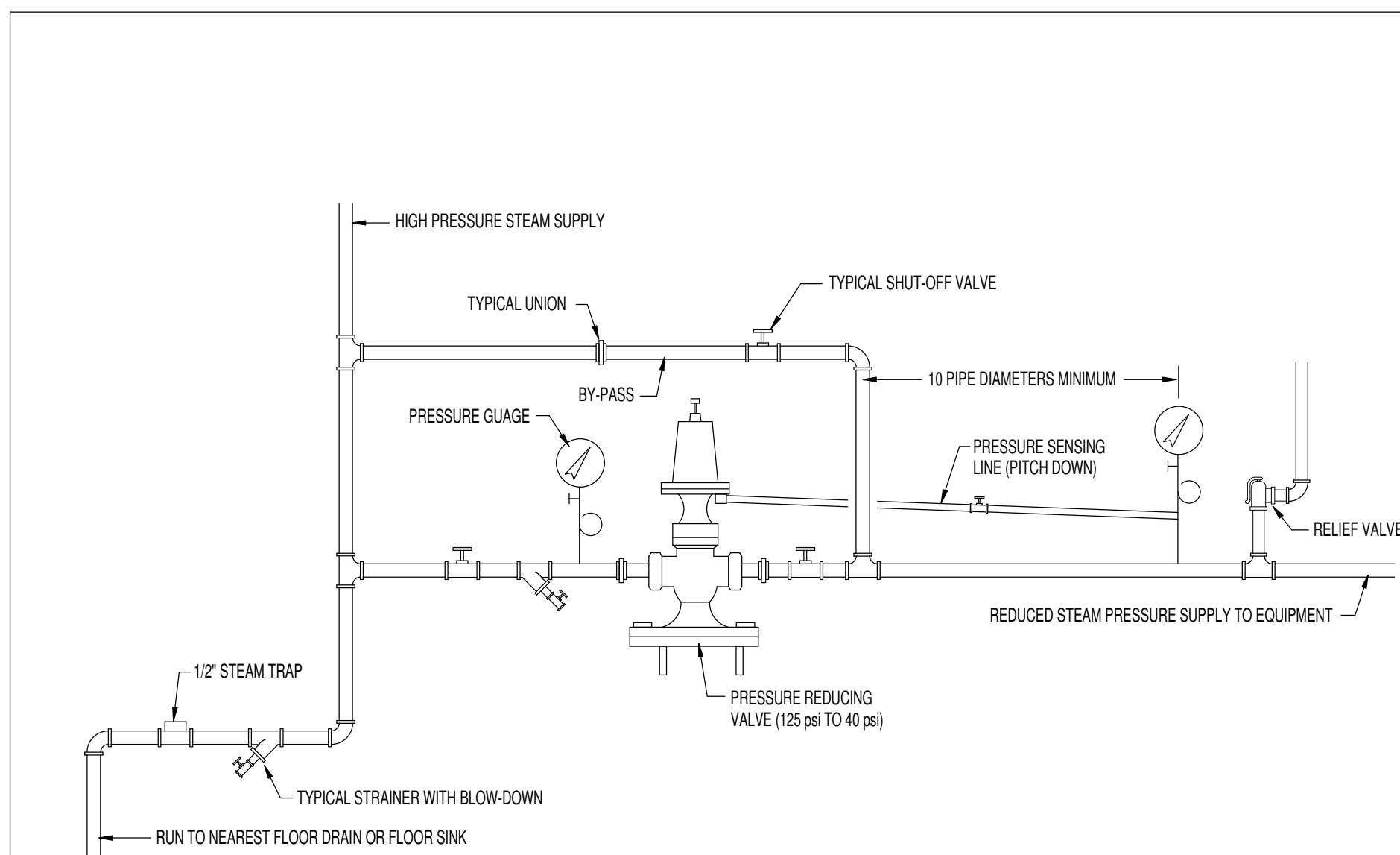
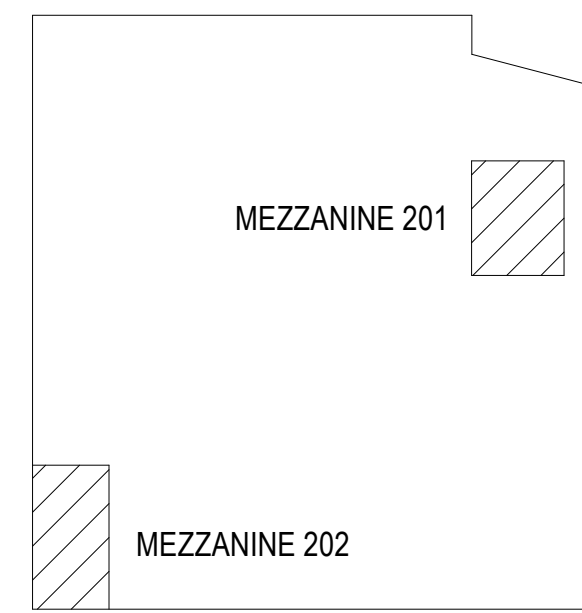
MEZZANINE 201 MECHANICAL PLAN

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

PLAN NOTES:

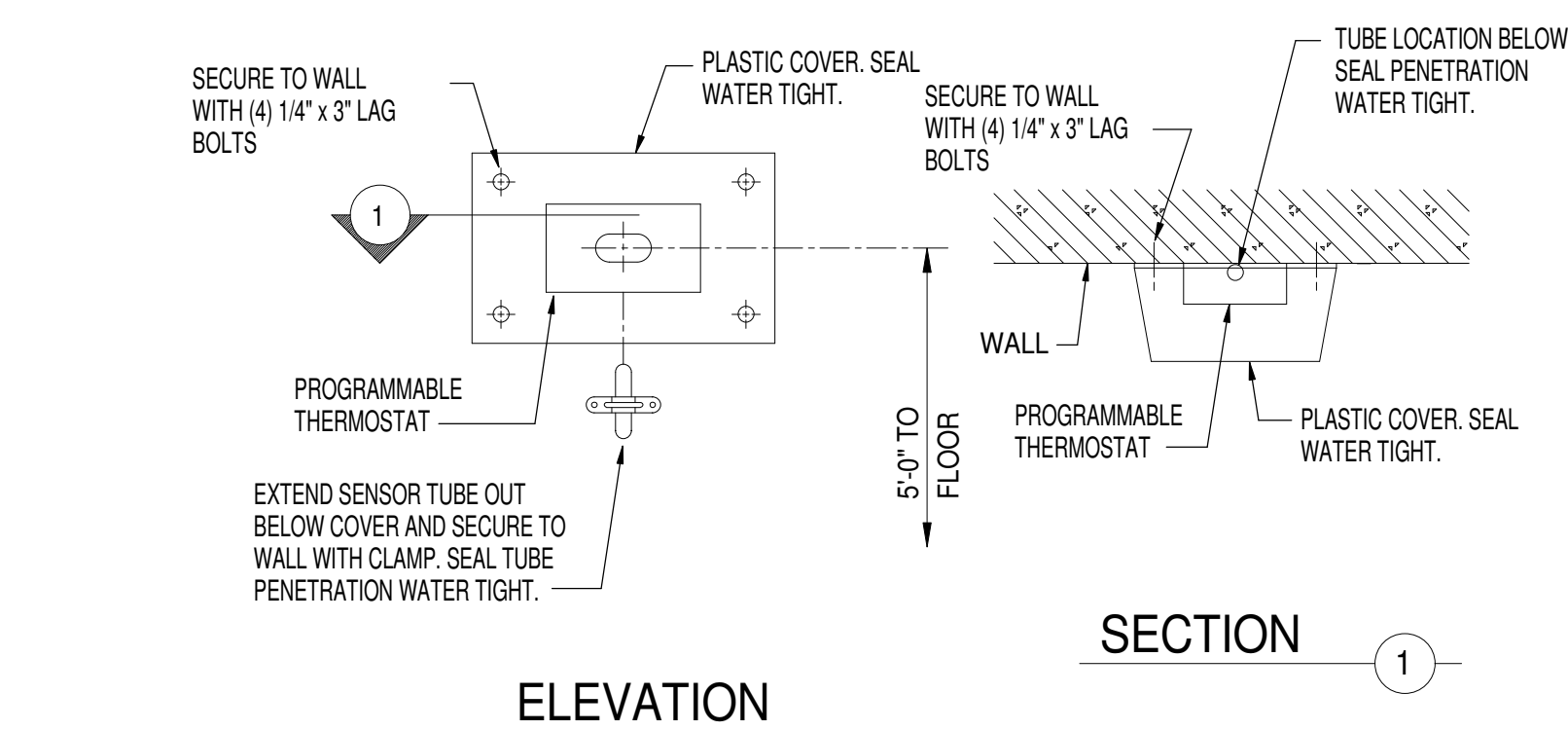
1. ROOF MOUNTED EQUIPMENT FURNISHED AND INSTALLED AS PART OF THE 'BUILDING SHELL' PACKAGE. EXTEND 30x55 SUPPLY PLENUM DOWN AS REQUIRED TO CONNECT ROUND DUCTS TO PLENUM AS SHOWN. ALL DUCTWORK TO BE STAINLESS STEEL CONSTRUCTION. ROUND DUCTS TO HAVE BELL MOUTH CONNECTION.
2. RUN DUCTWORK AS SHOWN JUST BELOW CONCRETE ROOF TEES. SUPPORT FROM ROOF TEES. ALL DUCTWORK AND GRILLES TO BE STAINLESS STEEL CONSTRUCTION. COORDINATE DUCT LOCATIONS WITH OTHER DUCTWORK, PIPING, ELECTRICAL CONDUITS, BUILDINGS STRUCTURE, EQUIPMENT STRUCTURES AND SUPPORTS AND WITH CONVEYOR RAILS. MAKE ADJUSTMENTS AS NECESSARY.
3. REFER TO SHEET M1.2 FOR SPECIFIED GRILLES AND CFM AMOUNTS. MOUNT IN BOTTOM OF DUCT AND BALANCE TO CFM AS CALLED OUT.
4. EQUIPMENT PROVIDED AND INSTALLED BY IDI INSTALLATION COMPANY.
5. ROOF MOUNTED EXHAUST FAN WITH BACK-DRAFT DAMPER FURNISHED AND INSTALLED AS PART OF THE 'BUILDING SHELL' PACKAGE. PROVIDE 2x24 EXHAUST GRILLE AS SPECIFIED AND CONNECT TO DUCTWORK AT JUST BELOW CONCRETE ROOF TEES.
6. PROVIDE AND INSTALL HOT WATER UNIT HEATER AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE COORDINATE ACTUAL UNIT LOCATION WITH OTHER PIPING, DUCTWORK AND EQUIPMENT. CONNECT TO HOT WATER SUPPLY AND RETURN PIPING WITH SHUT-OFF VALVES, CONTROL VALVE AND FLEXIBLE HOSES. REFER TO DETAIL A.MS.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.
7. 18" DIA. EXHAUST DUCT DOWN FROM MEZZANINE LEVEL. (REFER TO MEZZANINE 201 PLAN ON SHEET M1.3). EXTEND 18" DIA. DUCT TO BLENDER AND MAKE FINAL CONNECTION. SEAL CONNECTION AIR TIGHT. (TYPICAL OF 2) KEEP DUCT AS TIGHT AS POSSIBLE TO FLOOR MEZZANINE FLOOR STRUCTURE ABOVE.
8. PROVIDE 2x24 EXHAUST GRILLE AS SPECIFIED AT CEILING OF MAIN LEVEL. RISE 2x24 DUCT UP THRU MEZZANINE LEVEL ABOVE TO ROOF MOUNTED EXHAUST FAN. REFER TO LARGE SCALE MEZZANINE 201 PLAN ON SHEET M1.3 FOR CONTINUATION OF DUCTWORK ABOVE.

KEY PLAN



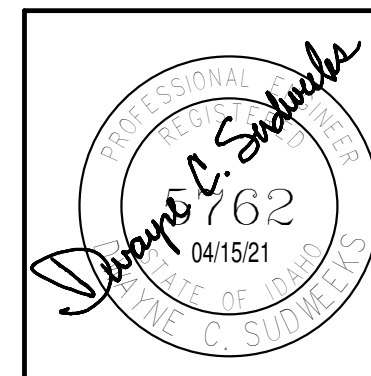
A REFRIGERANT PIPING THRU ROOF DETAIL

NO SCALE



B WATERPROOF SENSOR DETAIL

NO SCALE



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MEZZANINE MECHANICAL PLANS

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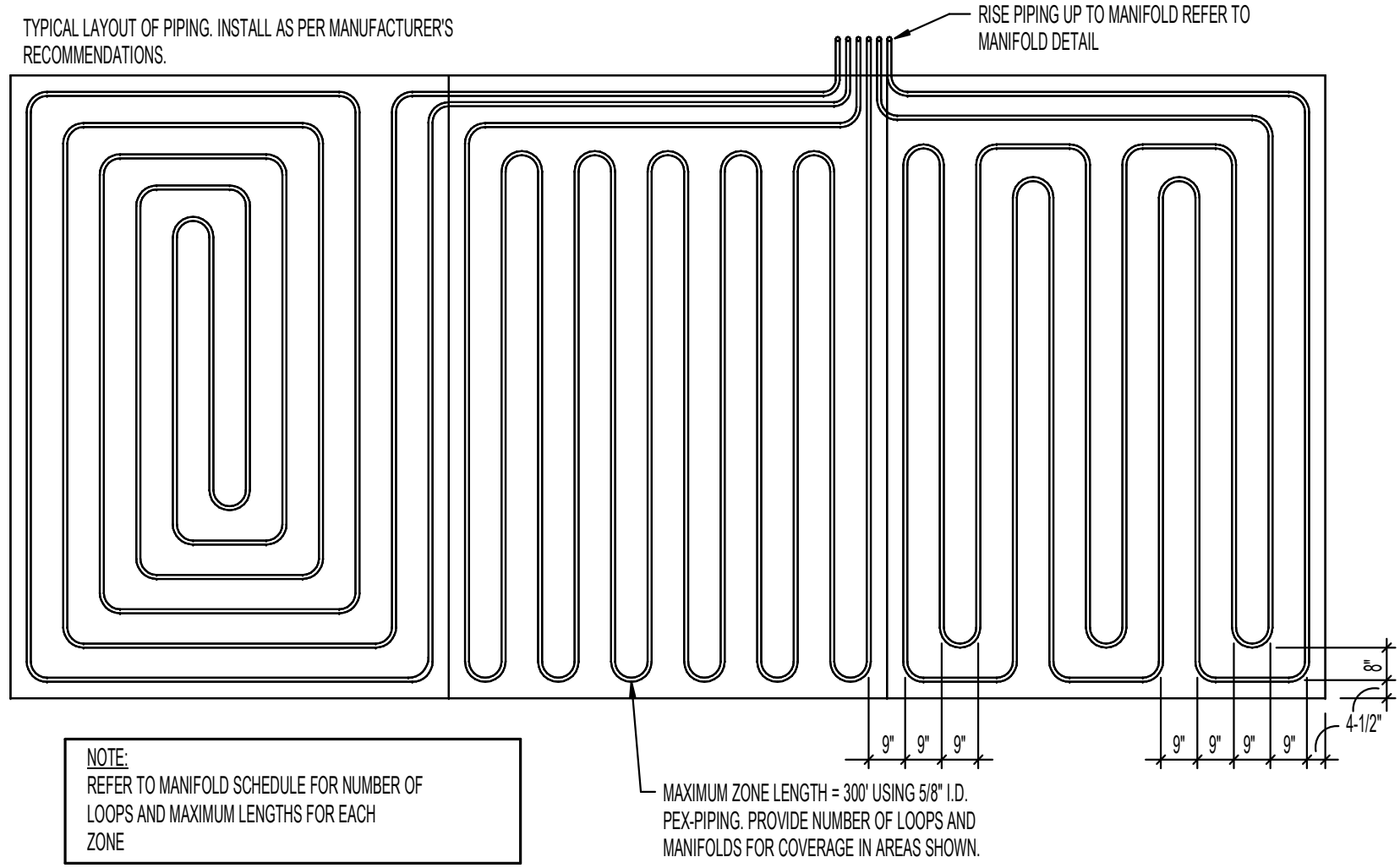
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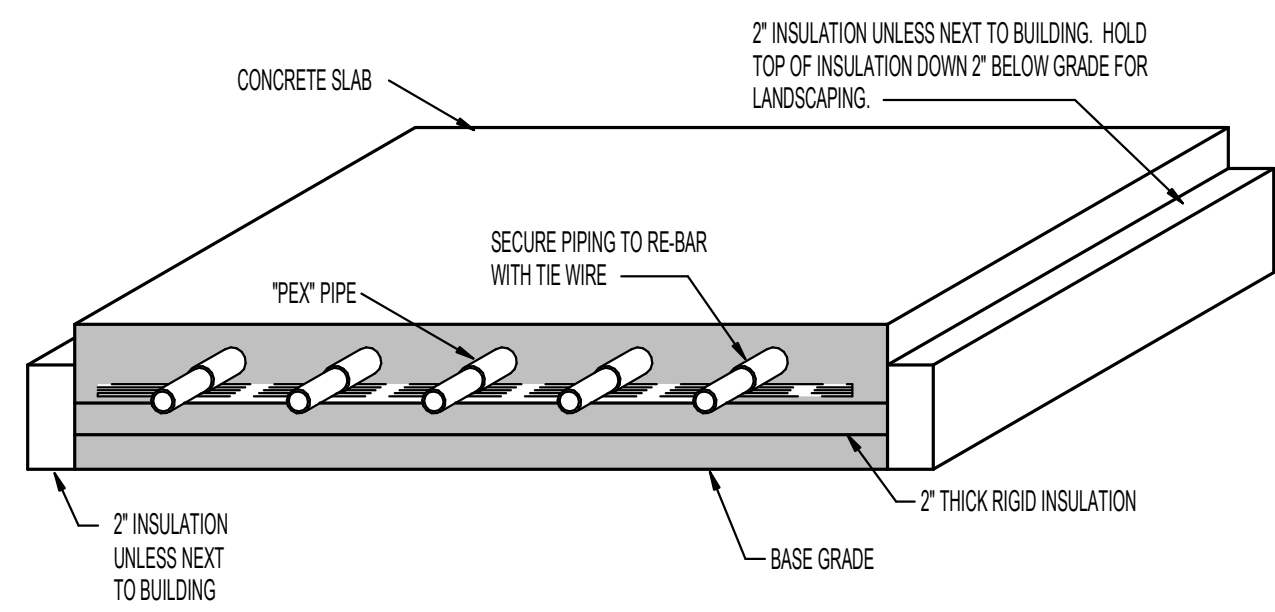
M1.3

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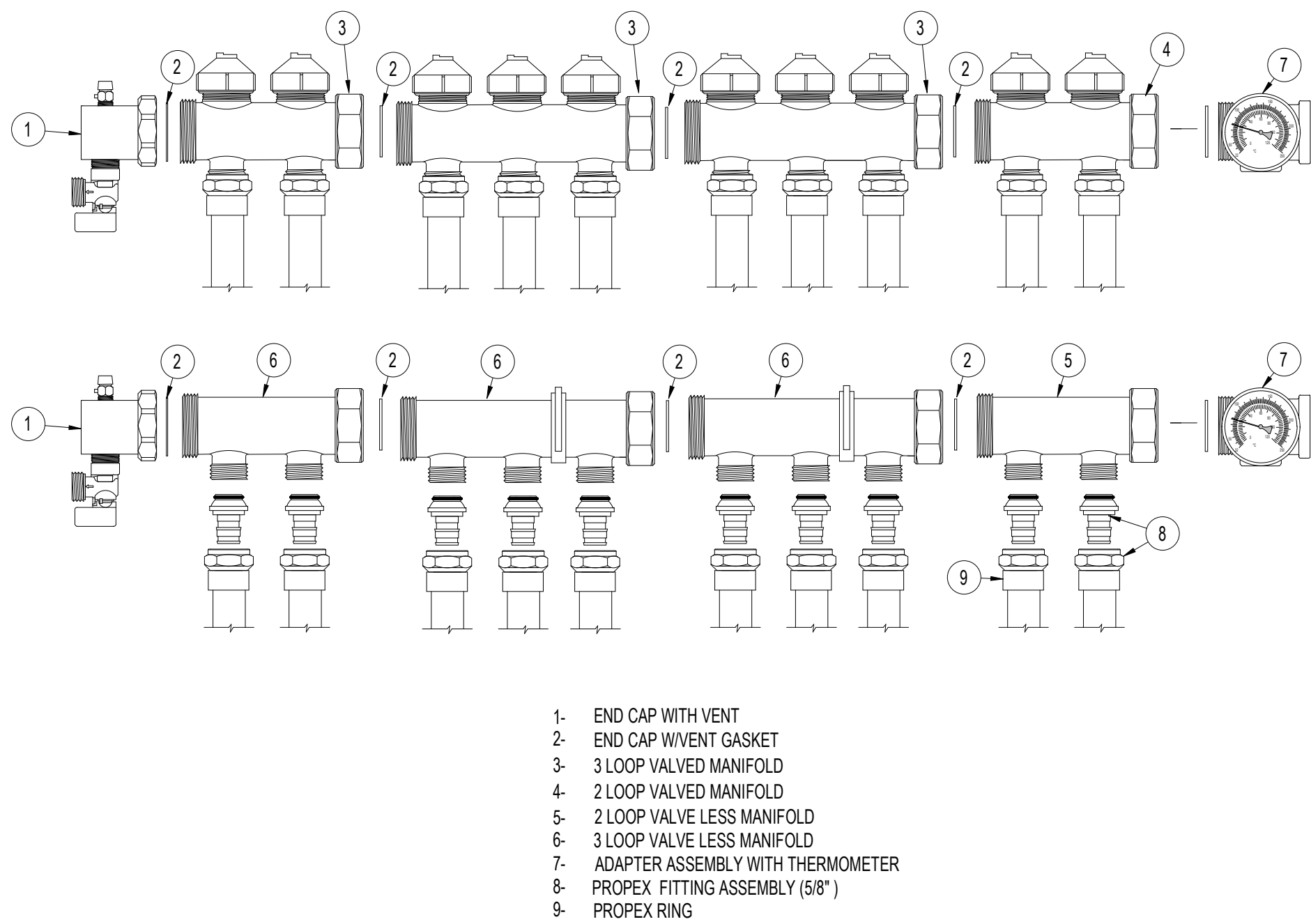
A TYPICAL IN-FLOOR HEATING PIPING LAY-OUT

NO SCALE



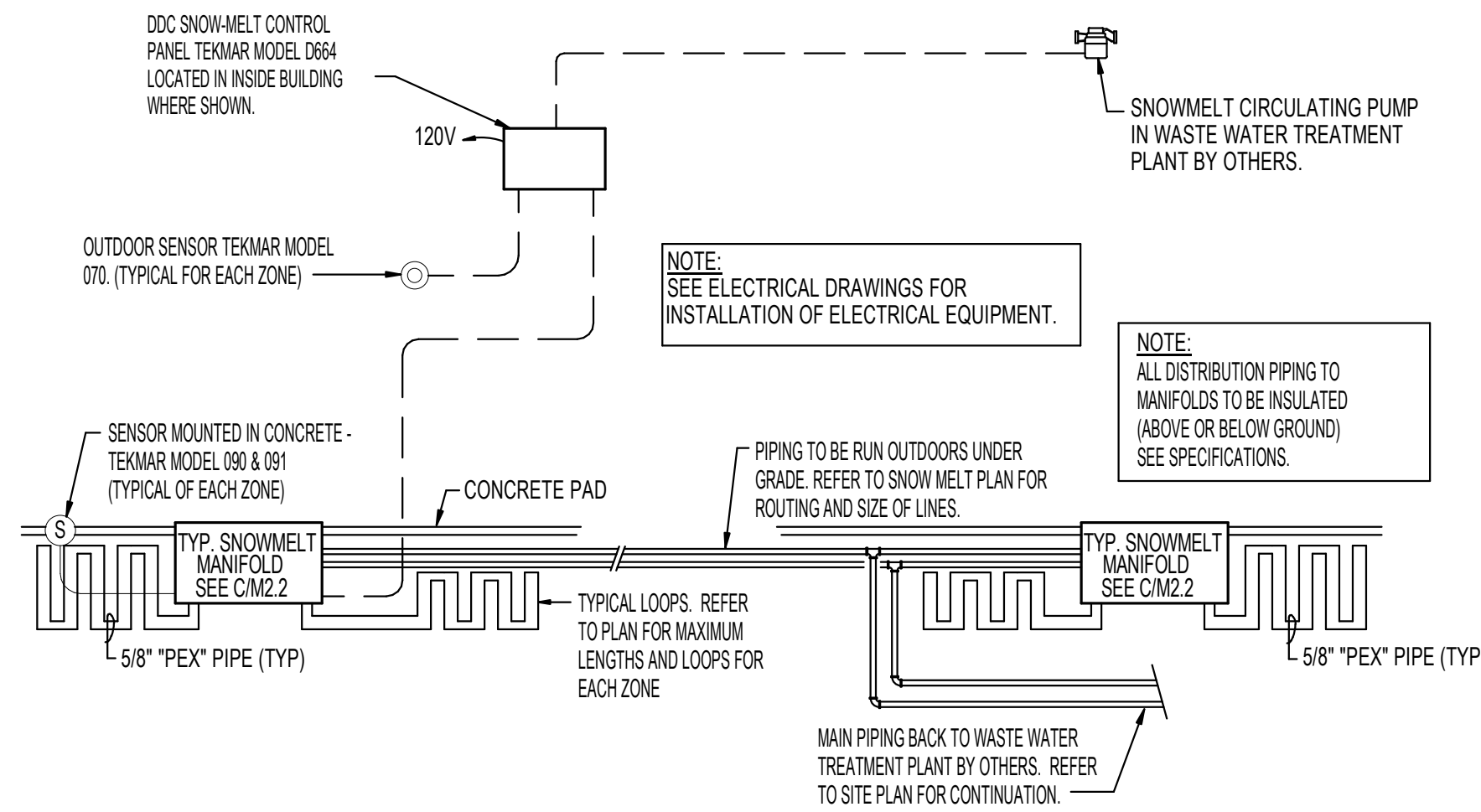
B SNOW MELT PIPING DETAILS

NO SCALE



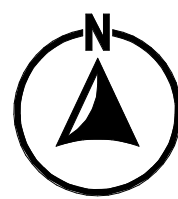
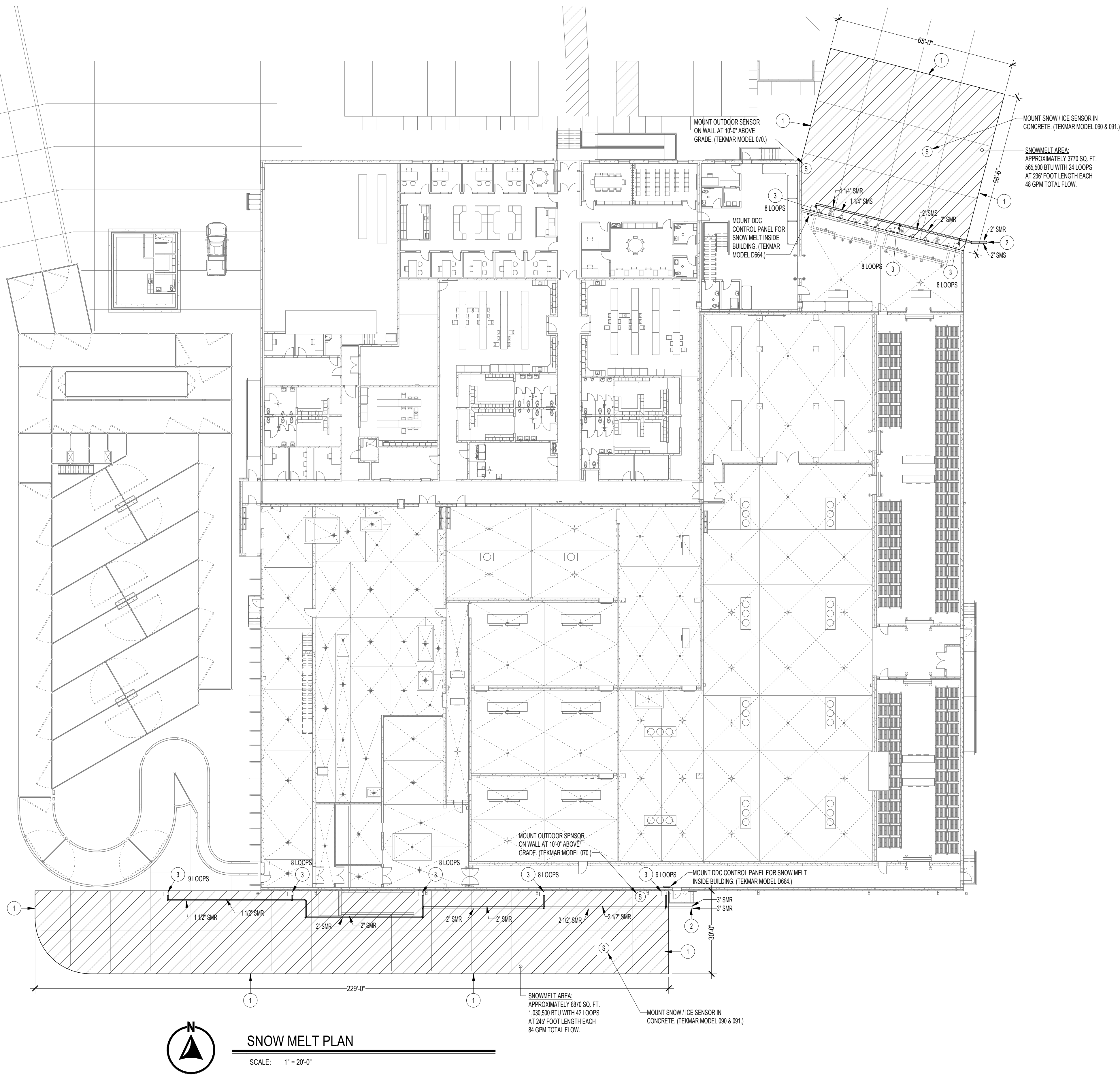
C SNOW MELT MANIFOLD DETAIL

NO SCALE



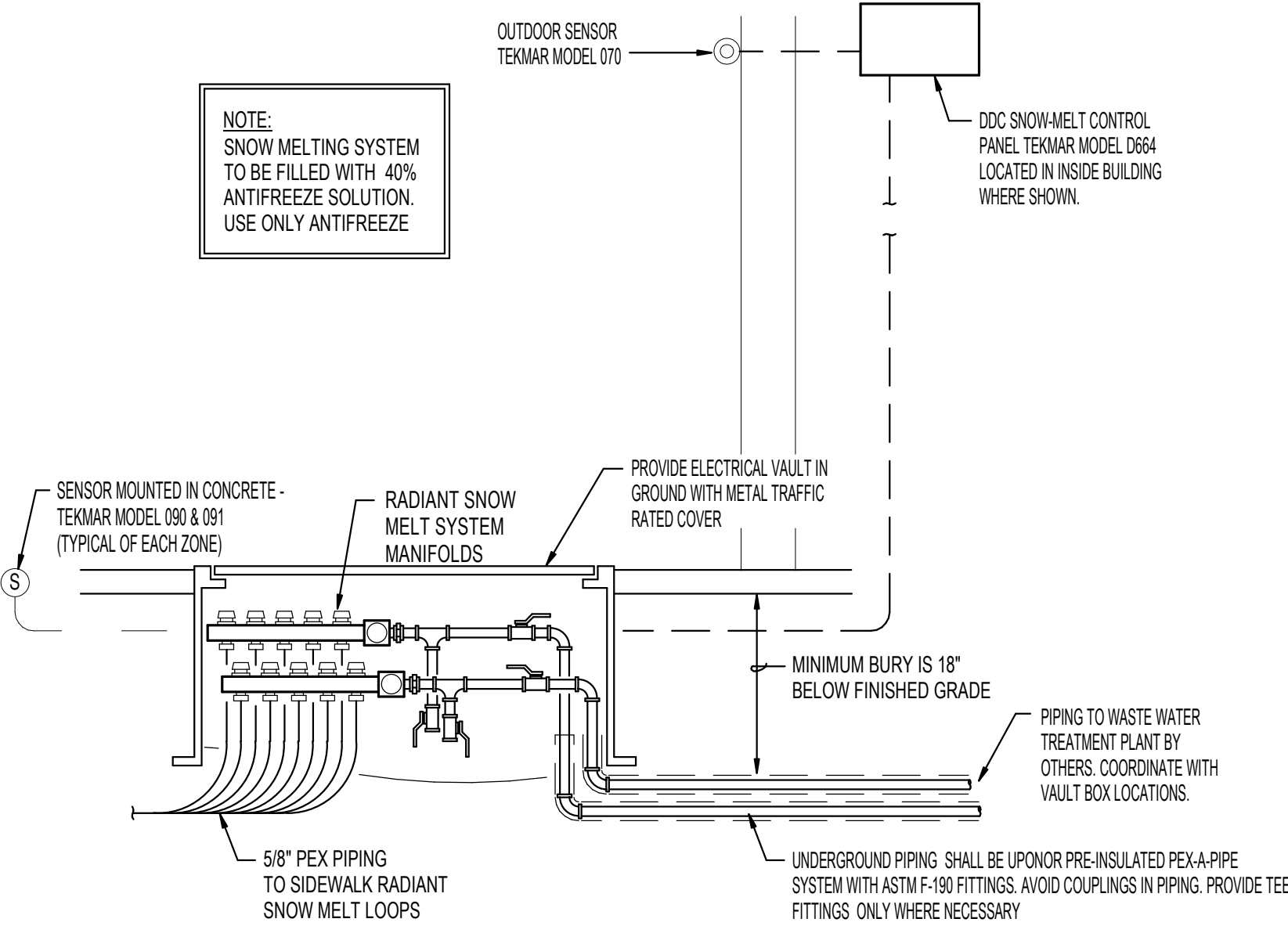
D SNOW MELT SYSTEM PIPING DIAGRAM

NO SCALE



SNOW MELT PLAN

SCALE: 1" = 20'-0"

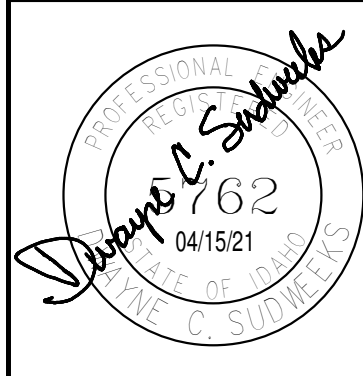


E SNOW MELT MANIFOLD BOX DETAIL

NO SCALE

PLAN NOTES:

- MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SNOW MELT SYSTEM IN HATCHED AREAS AS SHOWN. SYSTEM TO HAVE 5/8" PIPING SPACED AT 9" O.C. REFER TO DETAILS ON THIS SHEET FOR TYPICAL LOOP, MANFOLD PIPING, ETC. FOR TYPICAL INSTALLATION.
- MAIN SNOWMELT PIPING RUN FROM WASTE WATER TREATMENT PLANT TO SNOWMELT MANIFOLD BOXES FURNISHED AND INSTALLED BY OTHERS. COORDINATE PIPING TERMINATION WITH LOCATION OF MANFOLD BOXES.
- MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL CONCRETE ELECTRICAL VAULT IN GROUND WITH METAL TRAFFIC RATED COVER. PROVIDE PIPING MANIFOLD INSIDE VAULT WITH MAXIMUM OF 10 LOOPS PER VAULT. REFER TO SNOWMELT MANIFOLD BOX DETAIL E/M2.2.



DRAWING NO.:

M2.2

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SNOW MELT SYSTEM AND DETAILS

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
































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






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



KEVIN R. BODILY, AIA, JAMES H. WYATT, AIA, GEOFF L. NELSON, AIA








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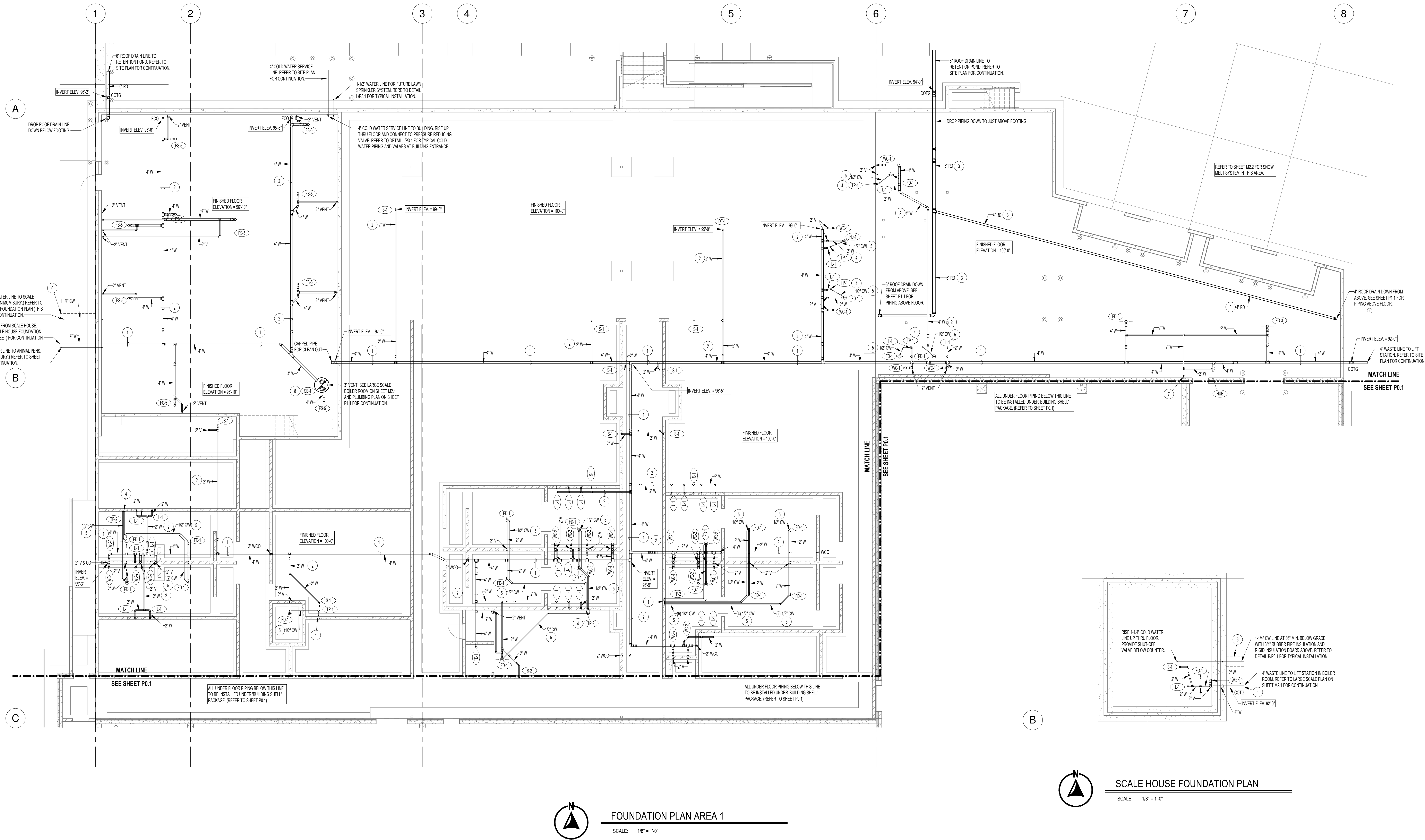
UNIT HEATER SCHEDULE														
SYM.	TYPE	CFM	CHAR.	H.P.	M.B.H.	E.A.T.	E.W.T.	T.D.	GPM	PIPE SIZE	VALVE	WEIGHT	REMARKS ①	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS		
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	950	12060/1	1/30	30,100	65°F	180°F	20°F	3.1	1-1/4"	AUTO 2 POSITION	50#	MOINE V/VN 42 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	950	12060/1	1/30	30,100	65°F	180°F	20°F	3.1	1-1/4"	AUTO 2 POSITION	50#	MOINE V/VN 42 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	950	12060/1	1/30	30,100	65°F	180°F	20°F	3.1	1-1/4"	AUTO 2 POSITION	50#	MOINE V/VN 42 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	950	12060/1	1/30	30,100	65°F	180°F	20°F	3.1	1-1/4"	AUTO 3 WAY	50#	MOINE V/VN 42 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"		75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	HORIZONTAL	2010	12060/1	1/8	83,700	65°F	180°F	20°F	8.7	1-1/4"	AUTO 3 WAY	100#	MOINE HC 108 WITH SIDE CONNECTIONS	
	HORIZONTAL	2010	12060/1	1/8	83,700	65°F	180°F	20°F	8.7	1-1/4"	AUTO 2 POSITION	100#	MOINE HC 108 WITH SIDE CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 3 WAY	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	VERTICAL	1665	12060/1	1/15	68,300	65°F	180°F	20°F	7.2	1-1/4"	AUTO 2 POSITION	75#	MOINE V/VN 95 WITH TOP AND BOTTOM CONNECTIONS	
	HORIZONTAL	1340	12060/1	1/8	60,200	65°F	180°F	20°F	6.3	1-1/4"	AUTO 2 POSITION	75#	MOINE HC 86 WITH SIDE CONNECTIONS	
	HORIZONTAL	1340	12060/1	1/8	60,200	65°F	180°F	20°F	6.3	1-1/4"	AUTO 2 POSITION	75#	MOINE HC 86 WITH SIDE CONNECTIONS	
	HORIZONTAL	2010	12060/1	1/8	83,700	65°F	180°F	20°F	8.7	1-1/4"	AUTO 2 POSITION	100#	MOINE HC 108 WITH SIDE CONNECTIONS	
	HORIZONTAL	2010	12060/1	1/8	83,700	65°F	180°F	20°F	8.7	1-1/4"	AUTO 2 POSITION	100#	MOINE HC 108 WITH SIDE CONNECTIONS	
	HORIZONTAL	2010	12060/1	1/8	83,700	65°F	180°F	20°F	8.7	1-1/4"	AUTO 2 POSITION	100#	MOINE HC 108 WITH SIDE CONNECTIONS	
① UNIT TO BE ALL STAINLESS STEEL CONSTRUCTION WITH STAINLESS STEEL SUPPORTS.														

AIR CURTAIN SCHEDULE														
SYM.	TYPE	CFM	CHAR.	H.P.	# MOTORS	AMPS	MOCP	FPM	NOZZLE WIDTH	DOOR HEIGHT	WEIGHT	REMARKS ①		
AC 1	WALL MOUNTED	1768	12060/1	1/2	1	6.5	15	3614	48"	7'-0"	75#	BERNER MODEL CHD10-1048A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 2	WALL MOUNTED	1768	12060/1	1/2	1	6.5	15	3614	48"	9'-0"	75#	BERNER MODEL CHD10-1048A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 3	WALL MOUNTED	3608	12060/1	1/2	2	13.0	20	3284	72"	10'-0"	100#	BERNER MODEL CHD10-2072A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 4	WALL MOUNTED	1768	12060/1	1/2	1	6.5	15	3614	48"	7'-0"	75#	BERNER MODEL CHD10-1048A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 5	WALL MOUNTED	1768	12060/1	1/2	1	6.5	15	3614	48"	7'-0"	75#	BERNER MODEL CHD10-1048A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 6	WALL MOUNTED	1784	12060/1	1/2	1	6.5	15	3592	42"	7'-0"	75#	BERNER MODEL CHD10-1042A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 7	WALL MOUNTED	3536	12060/1	1/2	2	13.0	20	3614	60"	0'-0"	125#	BERNER MODEL CHD10-2060A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 8	WALL MOUNTED	3608	12060/1	1/2	2	13.0	20	3284	72"	10'-0"	100#	BERNER MODEL CHD10-2072A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 9	WALL MOUNTED	3608	12060/1	1/2	2	13.0	20	3284	72"	10'-0"	100#	BERNER MODEL CHD10-2072A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 10	WALL MOUNTED	1804	12060/1	1/2	1	6.5	15	3284	36"	21'-0"	75#	BERNER MODEL CHD10-1038A. MOUNT ON WALL AT 4" ABOVE WALL OPENING.		
AC 11	WALL MOUNTED	1784	12060/1	1/2	1	6.5	15	3592	42"	7'-0"	75#	BERNER MODEL CHD10-1042A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 12	WALL MOUNTED	1784	12060/1	1/2	1	6.5	15	3592	42"	7'-0"	75#	BERNER MODEL CHD10-1042A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 13	WALL MOUNTED	1784	12060/1	1/2	1	6.5	15	3592	42"	7'-0"	75#	BERNER MODEL CHD10-1042A. MOUNT ON WALL AT 4" ABOVE DOOR.		
AC 14	WALL MOUNTED	3608	12060/1	1/2	2	13.0	20	3284	72"	10'-0"	100#	BERNER MODEL CHD10-2072A. MOUNT ON WALL AT 4" ABOVE DOOR.		
① UNIT TO BE ALL STAINLESS STEEL CONSTRUCTION WITH STAINLESS STEEL SUPPORTS.														

BOILER SCHEDULE														
SYM.	TYPE	GROSS BTU INPUT	GROSS BTU OUTPUT	CHAR	AMPS	WORK PRESS.	FUEL TYPE	FLUE SIZE	GAS SIZE	PIPE SIZE	GPM	EWT	LWT	REMARKS
	QUICKWATER DIRECT-CONTACT WATER HEATING SYSTEM	8,000,000	6,880,000	208/60/3	-	-	NAT.	28" Dia.	2"	2-1/2" IN 3" OUT	120	40°F	180°F	OGI PROCESS EQUIPMENT MODEL 8000 MAXON COMPLETE WITH (2) CIRCULATING PUMPS (180°F TEMP.)
	QUICKWATER DIRECT-CONTACT WATER HEATING SYSTEM	8,000,000	6,880,000	208/60/3	-	-	NAT.	28" Dia.	2"	2-1/2" IN 3" OUT	120	40°F	180°F	OGI PROCESS EQUIPMENT MODEL 8000 MAXON COMPLETE WITH (2) CIRCULATING PUMPS (180°F TEMP.)
	QUICKWATER DIRECT-CONTACT WATER HEATING SYSTEM	5,000,000	4,300,000	208/60/3	-	-	NAT.	22" Dia.	1-1/2"	2-1/2" IN 2" OUT	75	40°F	110°F	OGI PROCESS EQUIPMENT MODEL 5000 MAXON COMPLETE WITH (2) CIRCULATING PUMPS (110°F TEMP.)
	SEPARATED COMBUSTION	1,600,000	1,520,000	120/60/1	8.1	30 psi	NAT.	(2) 6"	2"	3" IN 3" OUT	-	160°F	180°F	LAARS MODEL MGH-1600 CONDENSING BOILER WITH CONDENSATE TRAP. 180°F DISCHARGE TEMP.
	SEPARATED COMBUSTION	1,600,000	1,520,000	120/60/1	8.1	30 psi	NAT.	(2) 6"	2"	3" IN 3" OUT	-	160°F	180°F	LAARS MODEL MGH-1600 CONDENSING BOILER WITH CONDENSATE TRAP. 180°F DISCHARGE TEMP.
	CLEAN STEAM BOILER SYSTEM	6,277,000	5,021,000	208/60/3	-	150 psi	NAT.	16" Dia.	2"	1-1/4" IN 4" OUT	-	-	-	SUPERIOR LITE BOILER MODEL DVFT-150-S150-FB-G (2) BOILERS REQUIRED COMPLETE WITH PACKAGED DEAERATOR TANK, CIRCULATING PUMPS, SEPARATOR SYSTEM AND ALL INTERCONNECTING PIPING.
	CLEAN STEAM BOILER SYSTEM	6,277,000	5,021,000	208/60/3	-	150 psi	NAT.	16" Dia.	2"	1-1/4" IN 4" OUT	-	-	-	SUPERIOR LITE BOILER MODEL DVFT-150-S150-FB-G (2) BOILERS REQUIRED COMPLETE WITH PACKAGED DEAERATOR TANK, CIRCULATING PUMPS, SEPARATOR SYSTEM AND ALL INTERCONNECTING PIPING.

CIRCULATING PUMP SCHEDULE							
SYM.	TYPE	G.P.M.	HEAD	H.P.	CHAR	RPM	REMARKS
	BASE MOUNTED	200	50'	5	208/60/3	1750	HOT WATER CIRCULATING
	BASE MOUNTED	200	50'	5	208/60/3	1750	HOT WATER CIRCULATING
	IN-LINE	120	20'	1	120/60/1	1725	BOILER CIRCULATING
	IN-LINE	120	20'	1	120/60/1	1725	BOILER CIRCULATING
B&G 1510 SERIES, SIZE 2BD WITH VFD							
B&G 1510 SERIES, SIZE 2BD WITH VFD							
B&G PD38 BOOSTER PUMP							
B&G PD38 BOOSTER PUMP							

ELECTRIC HEATER SCHEDULE						
SYM.	TYPE	BTU	KW	CHAR	CONTROL	REMARKS
	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH4A08 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH4A08 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH4A08 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH4A08 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	3412	1	120/60/1	INTEGRAL	QMARK MODEL CWH110/DSF WITH CWH-S1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	3412	1	120/60/1	INTEGRAL	QMARK MODEL CWH110/DSF WITH CWH-S1 SEMI-RECESSED MOUNTING FRAME
	RECESSED WALL MOUNTED	3412	1	120/60/1	INTEGRAL	QMARK MODEL CWH110/DSF WITH CWH-S1 SEMI-RECESSED MOUNTING FRAME

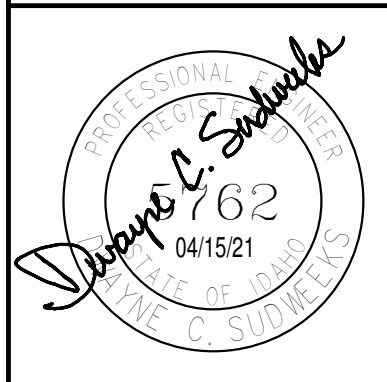
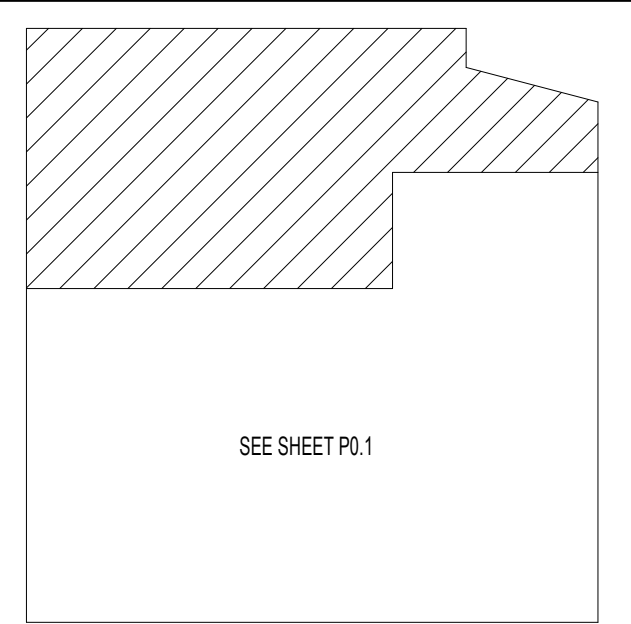


PLAN NOTES:

- GRADE MAN 4" WASTE LINE AT 1/8" PER FOOT SLOPE. KEEP PIPING AS HIGH AS POSSIBLE. COORDINATE WASTE PIPING WITH FOOTINGS AND FOUNDATION WALLS. WASTE LINES ARE ALLOWED TO RISE UP VERTICALLY THRU FOOTINGS. DO NOT RUN PIPING HORIZONTALLY THRU FOOTINGS.
- UNLESS NOTED OTHERWISE, ALL WASTE PIPING BELOW FLOOR TO BE GRADED AT 1/8" PER FOOT SLOPE. FIELD COORDINATE ALL WASTE PIPING AND RISES UP TO FIXTURES WITH BUILDING FOOTINGS. WASTE LINES ARE ALLOWED TO RISE UP VERTICALLY THRU FOOTINGS. DO NOT RUN PIPING HORIZONTALLY THRU FOOTINGS.
- GRADE ROOF DRAIN PIPING BELOW FLOOR AT 1/8" PER FOOT SLOPE. KEEP PIPING AS HIGH AS POSSIBLE. COORDINATE ROOF DRAIN PIPING WITH WASTE PIPING, FOOTINGS, AND FOUNDATION WALLS.
- TRAP PRIMER MANIFOLD LOCATED IN WALL ABOVE. RISE SEPARATE 1/2" COLD WATER (PEX) PIPING UP THRU FLOOR AND CONNECT TO MANIFOLD. REFER TO DETAIL OP3.1 FOR TYPICAL PIPING CONNECTIONS. (SINGLE PORT TRAP PRIMER PIPED SIMILARLY.)
- RUN 1/2" COLD WATER (PEX) PIPING BELOW FLOOR FROM MANIFOLD TO FLOOR SINK OR FLOOR DRAIN. NO PIPING JOISTS ARE ALLOWED BELOW FLOOR. REFER TO DETAIL OP3.1 FOR TYPICAL PIPING CONNECTIONS.
- RUN 1-1/4" COLD WATER LINE FROM BOILER ROOM TO SCALE HOUSE AT 48" MINIMUM BURY DEPTH. COVER PIPING WITH 2" THICK BY 34" WIDE RIGID INSULATION BOARD FOR FREEZE PROTECTION. REFER TO DETAIL AP3.2 FOR TYPICAL INSTALLATION.

- RISE 2" VENT UP THRU FLOOR. COORDINATE LOCATION WITH DOORWAY AND SHELVE. REFER TO SHEET P1.1 FOR CONTINUATION.
- PROVIDE AND INSTALL SEWAGE EJECTOR STATION AS SPECIFIED. MOUNT (2) SUBMERSIBLE GRINDER PUMPS IN BOTTOM OF 36" ROUND RECEIVING TANK. RISE (2) 1-1/2" DISCHARGE LINES UP THRU GAS TIGHT LD AND CONNECT TO 4" MAIN WASTE LINE ABOVE BOILER ROOM FLOOR. REFER TO DETAIL HP3.1 FOR TYPICAL INSTALLATION AND FOR OPERATING FLOATS AND ALARMS REQUIRED WITH SYSTEM.

KEY PLAN



INTERMOUNTAIN PACKING

1096 E IONA ROAD
IDAHO FALLS, IDAHO 83401

FOUNDATON PLUMBING PLAN

PROJECT:

REVISIONS

PROJECT NO.

20011

DATE:

APRIL 2021

DRAWN BY:

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DRAWING NO.:

P1.0

INTERIOR FINISH

FOUNDATION PLUMBING PLAN

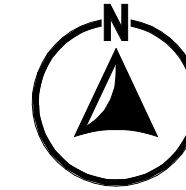
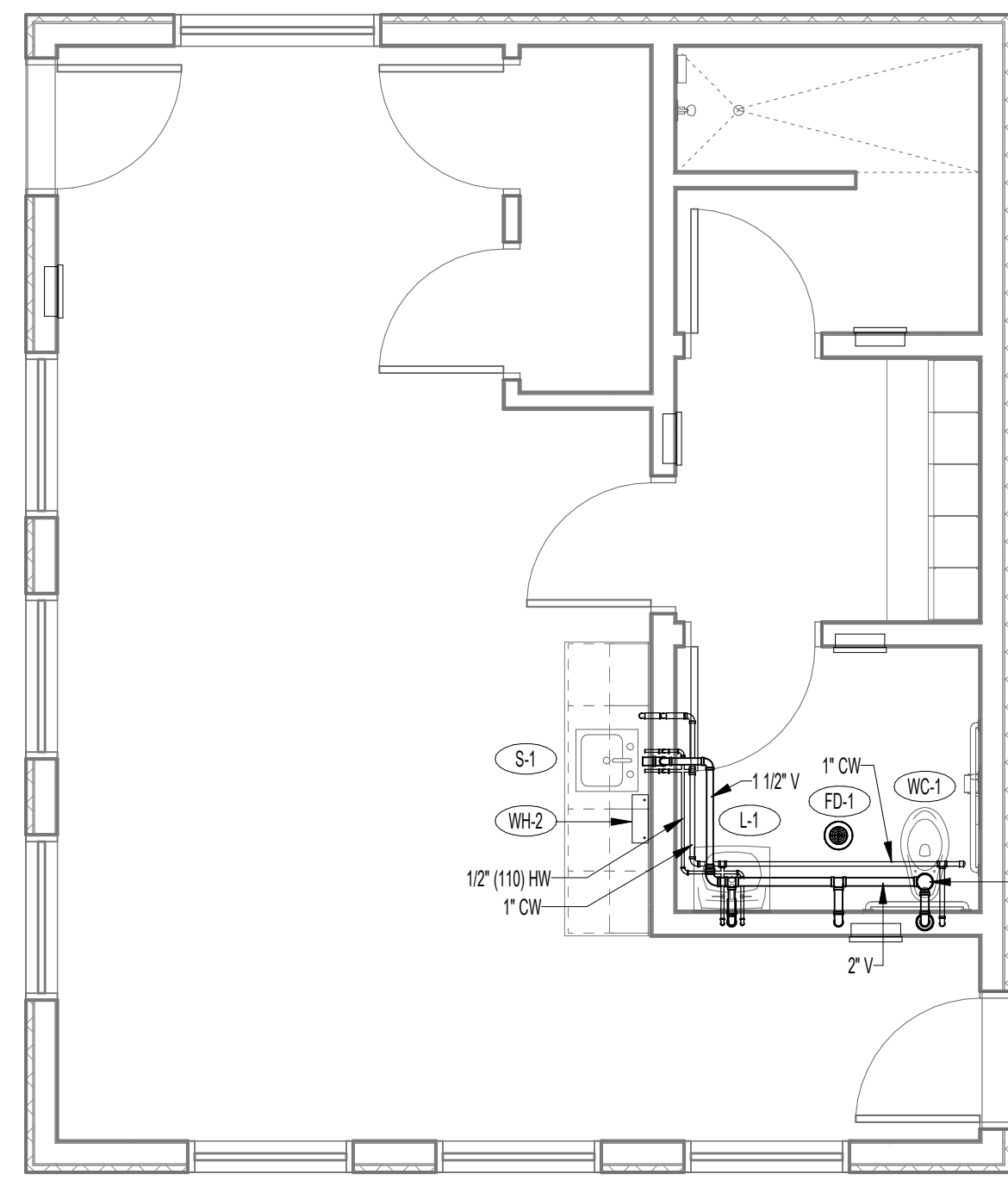
INTERMOUNTAIN PACKING

1096 E IONA ROAD

IDAHO FALLS, IDAHO 83401

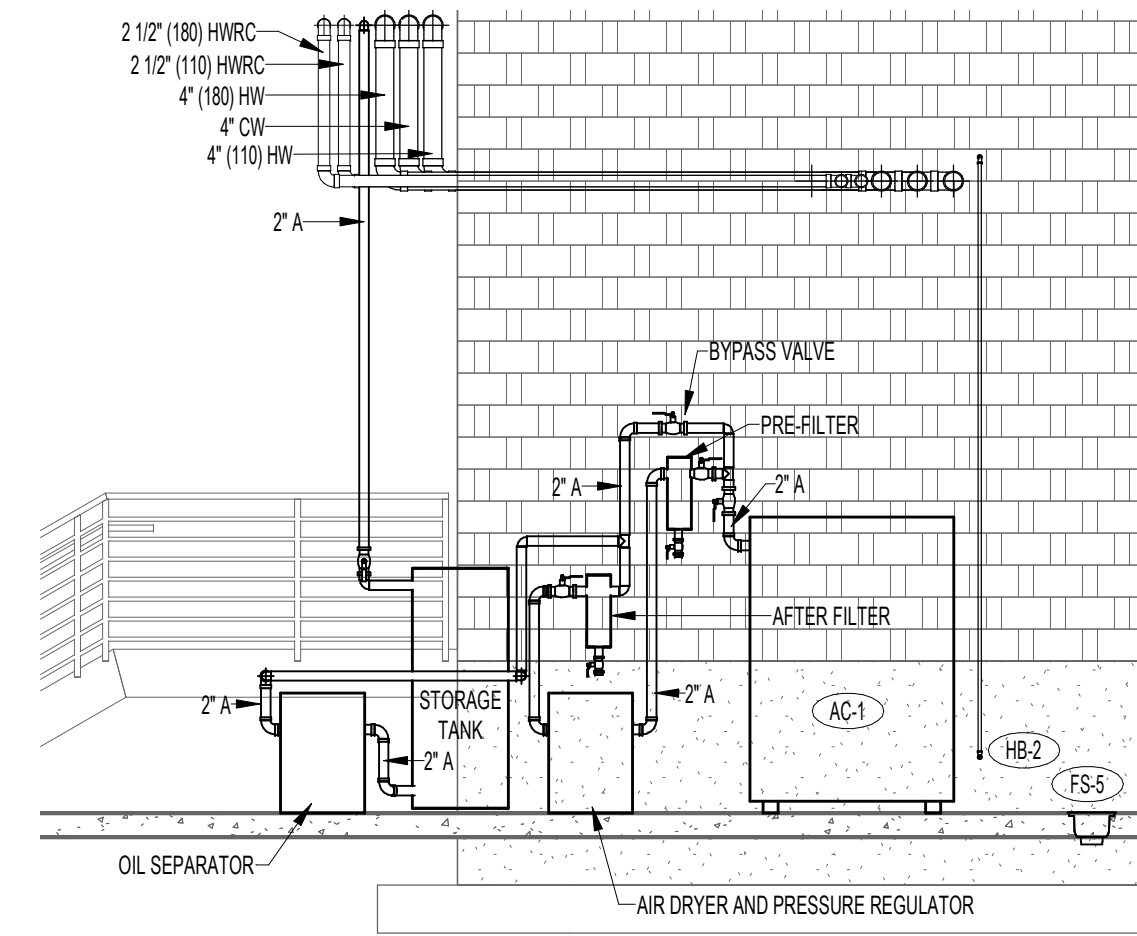
FOUNDATON PLUMBING PLAN

INTERIOR FINISH



SCALE HOUSE PLUMBING PLAN

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



AIR COMPRESSOR ELEVATION

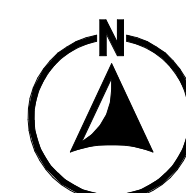
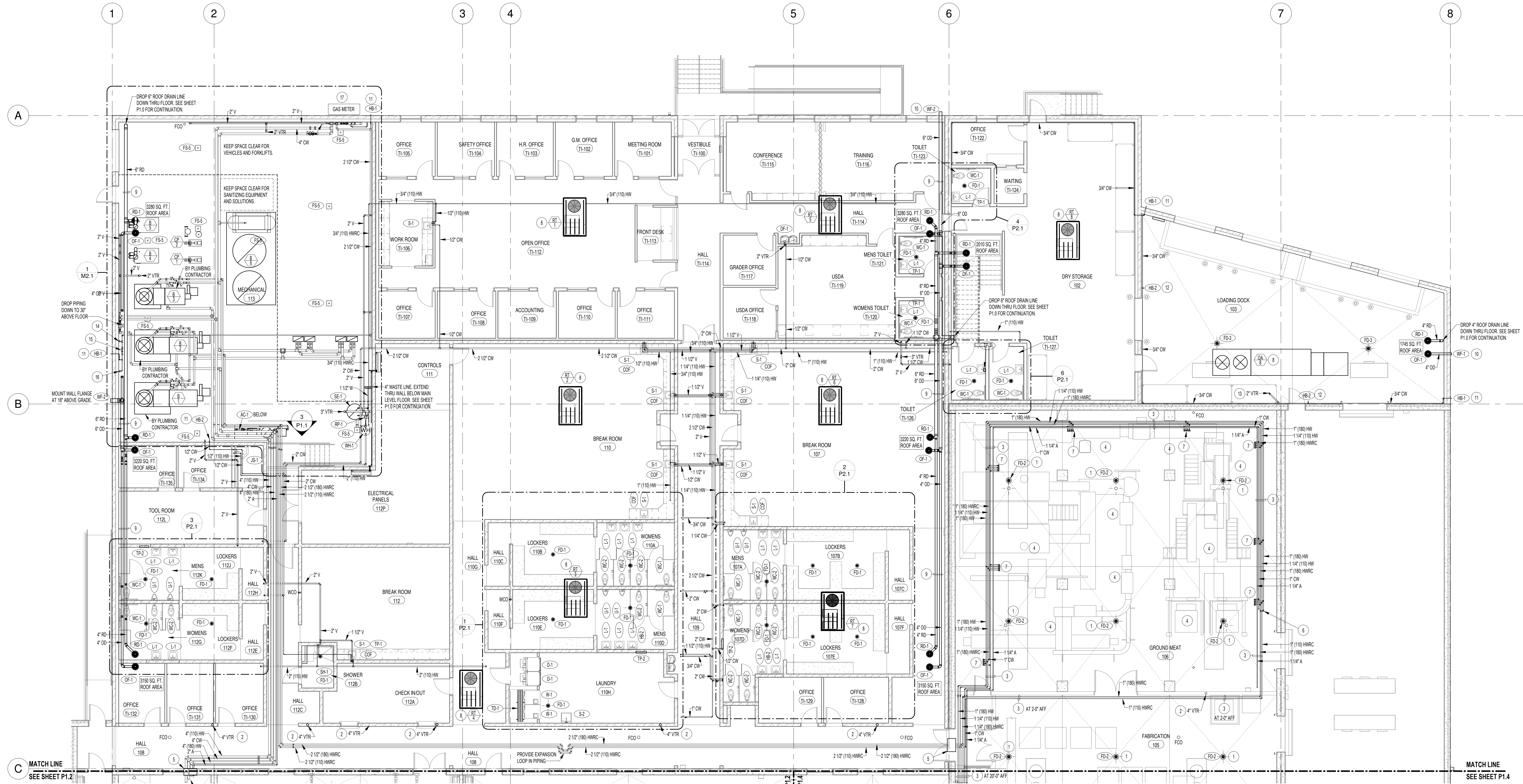
SCALE: 1/4" = 1'-0"

PLAN NOTES:

- FLOOR DRAIN, FLOOR SINK, AND/OR DRAIN HUB PROVIDED AND INSTALLED UNDER BUILDING SHELL BID PACKAGE. FIXTURES ARE SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P1.1 FOR UNDER FLOOR PIPING.
- VENT THRU FLOOR AND 4" VENT THRU ROOF PROVIDED AND INSTALLED UNDER BUILDING SHELL BID PACKAGE. PIPING SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P1.1 FOR PIPING.
- RUN PIPING ABOVE EQUIPMENT AND RAILS AS SHOWN AT APPROXIMATELY 17'-4" ABOVE FLOOR. CONTRACTOR WILL NEED TO COORDINATE ACTUAL ELEVATION AND ROUTING OF PIPING IN FIELD WITH EQUIPMENT, SUPPORTS, RAILS, BUILDING STRUCTURE, ETC. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS BELOW PIPING AND SUPPORT FROM ROOF STRUCTURE WITH STAINLESS STEEL RODS. REFER TO DETAIL QP3.1 FOR TYPICAL SUPPORTS AND SUPPORT SPACING.
- EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL PIPING FROM MAIN RUNS DOWN TO PLATFORM FIXTURES TO BE INSTALLED AND CONNECTED BY EQUIPMENT SUPPLIER.
- RUN PIPING THRU BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES (HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC.) NO HOLES LARGER THAN 2" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTEGRA ENGINEERING.
- CONNECT END OF 1" (180 DEGREE) HOT WATER LINE INTO 180 DEGREE HOT WATER RECIRCULATING LINE WITH SHUT-OFF VALVE.
- PROVIDE 1" COLD WATER, 1" (110 DEG.) HOT WATER, 1" (180 DEG.) HOT WATER AND 1" (180 DEG.) HOT WATER RECIRC. TAP LINES OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.
- ROOF MOUNTED EQUIPMENT INSTALLED UNDER BUILDING SHELL PACKAGE. REFER TO SHEET P1.4 FOR GAS PIPING TO BE INSTALLED AND CONNECTED DURING INTER-FINISH PACKAGE.
- RUN ROOF DRAIN AND OVERFLOW DRAIN PIPING AT 1/8" PER FOOT SLOPE. RUN PIPING THRU JOIST SPACE AS MUCH AS POSSIBLE. KEEP PIPING AS HIGH AS POSSIBLE.
- EXTEND OVERFLOW PIPING THRU EXTERIOR WALL AS HIGH AS POSSIBLE. CONNECT TO LAMB'S TOUNDEE WITH WALL FLANGE. REFER TO DETAIL QP3.1 FOR TYPICAL INSTALLATION.
- DROP 3/4" COLD WATER LINE DOWN WALL WITH SHUT-OFF VALVE IN VERTICAL LINE. EXTEND PIPING THRU EXTERIOR WALL AT 1/8" ABOVE GRADE. CONNECT TO HOSE BIBB AS SPECIFIED. REFER TO DETAIL QP3.1 FOR TYPICAL HOSE BIBB INSTALLATION.
- DROP 1/2" COLD WATER LINE DOWN WALL WITH SHUT-OFF VALVE IN VERTICAL LINE. CONNECT TO INTERIOR HOSE BIBB AS SPECIFIED WITH VACUUM BREAKER. MOUNT AT 3' ABOVE FINISHED FLOOR.
- COORDINATE 2" VENT LP WALL WITH OVERHEAD DOOR AND WITH SHELVING. RISE 2" VENT THRU ROOF AT 10'-0" MINIMUM AWAY FROM AIR HANDLER INTAKE VENT AND AT 2' MINIMUM AWAY FROM HIGHER ROOF AREA.
- DROP 1-1/4" COLD WATER LINE DOWN IN BOILER ROOM. EXTEND THRU FLOOR AND RUN TO SCALE HOUSE. REFER TO SHEET P1.3 FOR CONTINUATION OF PIPING BELOW GRADE.
- PROVIDE AND INSTALL REDUCED PRESSURE BACK-FLOW PREVENTER IN 1" COLD WATER LINE AFTER SCALE HOUSE LINE TAKE-OFF. RUN DRAIN LINE TO NEAREST FLOOR SINK. 1" COLD WATER LINE TO CONTINUE ON TO EXTERIOR HOSE BIBB AND TO ANIMAL PENS. REFER TO DETAIL AP3.1 FOR TYPICAL INSTALLATION OF BACK-FLOW PREVENTER.
- DROP 1" COLD WATER LINE (AFTER BACK-FLOW PREVENTION DEVICE) DOWN WALL AND EXTEND THRU FLOOR. 1" LINE TO RUN BELOW GRADE TO ANIMAL PENS. REFER TO SHEET P2.1 FOR CONTINUATION.
- GAS METER PROVIDED AND INSTALLED BY LOCAL GAS COMPANY. SIZE METER TO 45,500.00 BTU LOAD WITH 5 PSI DISCHARGE PRESSURE. REFER TO SHEETS P1.1, P1.4, P2.1 AND TO GAS PIPING ISOMETRIC ON SHEET P2.3 FOR GAS PIPING TO EQUIPMENT.

KEY PLAN

SEE SHEET P1.1	SEE SHEET P1.4
SEE SHEET P1.2	SEE SHEET P1.5
SEE SHEET P1.3	



AREA 1 PLUMBING FLOOR PLAN -

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

INTERMOUNTAIN PACKING

1096 E IONA ROAD
IDAHO FALLS, IDAHO 83401

AREA 1 PLUMBING FLOOR PLAN

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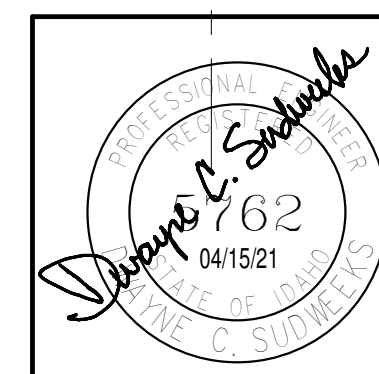
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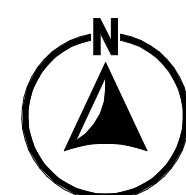
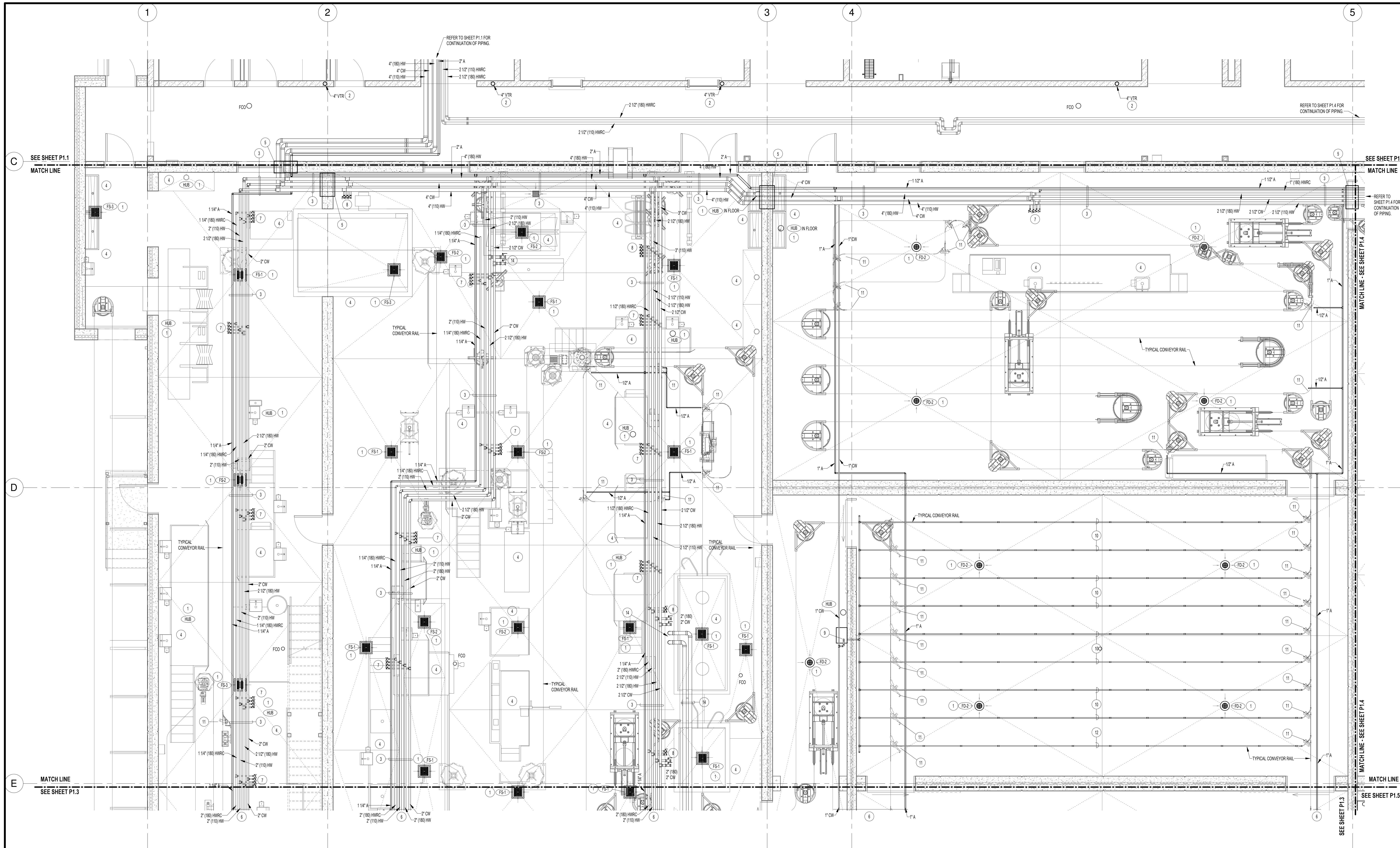
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SHEET TITLE:



ENLARGED AREA 2A PLUMBING PLAN

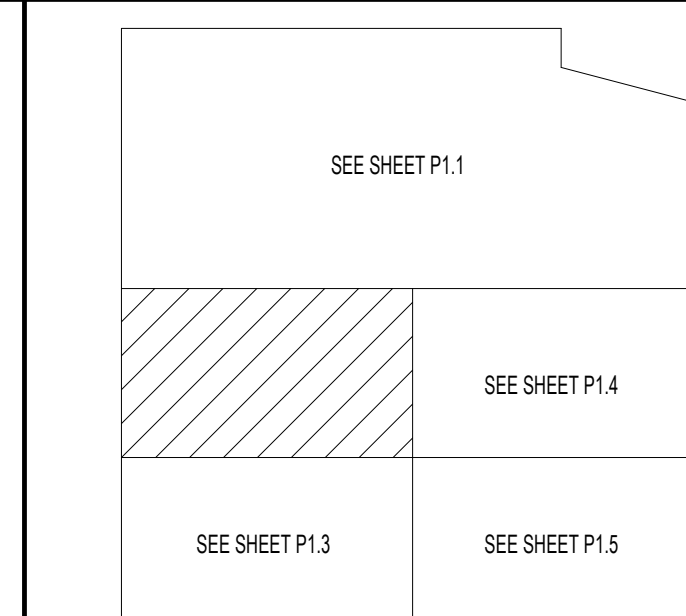
SCALE: 1/4" = 1'-0"

EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL WATER PIPING DROPS AND FINAL CONNECTIONS ARE MADE BY EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO PROVIDE TAPS IN LINES WHERE SHOWN WITH SHUT-OFF VALVES. (SEE NOTE #7.) ALL WASTE PIPING BELOW PLATFORMS (NOT SHOWN) ARE TO BE INSTALLED BY EQUIPMENT SUPPLIER AND ARE TO EXTENDED TO NEAREST FLOOR SINK OR OPEN HUB DRAIN.

PLAN NOTES:

- FLOOR DRAIN, FLOOR SINK, AND/OR DRAIN HUB PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. FIXTURES ARE SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR UNDER FLOOR PIPING.
- VENT THRU FLOOR AND 4" VENT THRU ROOF PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. PIPING SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR PIPING.
- RUN PIPING ABOVE EQUIPMENT AND RAILS AS SHOWN AT APPROXIMATELY 20'-0" ABOVE FLOOR. CONTRACTOR WILL NEED TO COORDINATE ACTUAL ELEVATION AND ROUTING OF PIPING IN FIELD WITH EQUIPMENT, SUPPORTS, RAILS, BUILDING STRUCTURE, ETC. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS BELOW PIPING AND SUPPORT FROM ROOF STRUCTURE WITH STAINLESS STEEL RODS. REFER TO DETAIL QPS.1 FOR TYPICAL SUPPORTS AND SUPPORT SPACING.
- EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL PIPING FROM MAIN RUNS DOWN TO PLATFORM FIXTURES TO BE INSTALLED AND CONNECTED BY EQUIPMENT SUPPLIER.
- RUN PIPING THRU BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES (HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC.) AND HOLES LARGER THAN 12" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERS.
- REFER TO SHEET P1.3 FOR CONTINUATION OF PIPING.
- PROVIDE 1" COLD WATER, 1" (110 DEG F) HOT WATER, 1" (180 DEG F) HOT WATER AND 1" (180 DEG F) HOT WATER REGRD. LINE TAPS OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.
- PROVIDE 1-1/2" COLD WATER, 1-1/2" (110 DEG F) HOT WATER, 1-1/2" (180 DEG F) HOT WATER AND 1-1/2" (180 DEG F) HOT WATER REGRD. LINE TAPS OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.
- COOLER SPRAY SYSTEM PROVIDED AND INSTALLED BY IDFI. ROUGH-IN AND CONNECT 3/4" COLD WATER LINE WITH SHUT-OFF VALVE TO CHILLER UNIT. FIELD VERIFY EXACT LOCATION OF CHILLER UNIT IN FIELD.
- COOLER SPRAY SYSTEM PROVIDED AND INSTALLED BY IDFI. NO OTHER WATER PIPING TO BE RAN INSIDE COOLERS OR FREEZERS.
- TYPICAL PNEUMATIC RAIL SWITCH. ROUGH-IN AND CONNECT 1/2" COMPRESSED AIR LINE WITH SHUT-OFF VALVE AND FLEXIBLE HOSE. FIELD VERIFY EXACT LOCATION OF SWITCH AND SIZE OF CONNECTION.
- SATELLITE WASHING STATION PROVIDED AND INSTALLED BY IDFI EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 2" (180 DEG F) HOT WATER LINE WITH SHUT-OFF VALVE. FIELD VERIFY EXACT LOCATION OF EQUIPMENT AND ADJUST PIPING AND MIXING VALVE LOCATIONS TO MATCH.
- RUN 2" (180 DEG F) HOT WATER LINE AND 1" COLD WATER LINE TO 3-WAY MIXING VALVE AS SHOWN. EXTEND 2" (180 DEG F) HOT WATER LINE DOWN TO SATELLITE WASHING STATION. FIELD VERIFY EXACT LOCATION OF EQUIPMENT AND ADJUST PIPING AND MIXING VALVE LOCATIONS TO MATCH.
- REMOTE RECEIVING TANK, CIRCULATING PUMPS, AND CHEMICAL WASH BOOTH ALL SUPPLIED BY EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR TO CONNECT ALL EQUIPMENT WITH STAINLESS STEEL PIPING AS REQUIRED. FIELD VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIELD VERIFY EXACT PIPING SIZES FOR EACH PIECE OF EQUIPMENT. PIPING TO BE FURNISHED TO CONNECT PUMPS TO TANK, PUMPS TO BOOTH, AND BOOTH TO TANK. REFER TO CHAD EQUIPMENT DRAWINGS.

KEY PLAN



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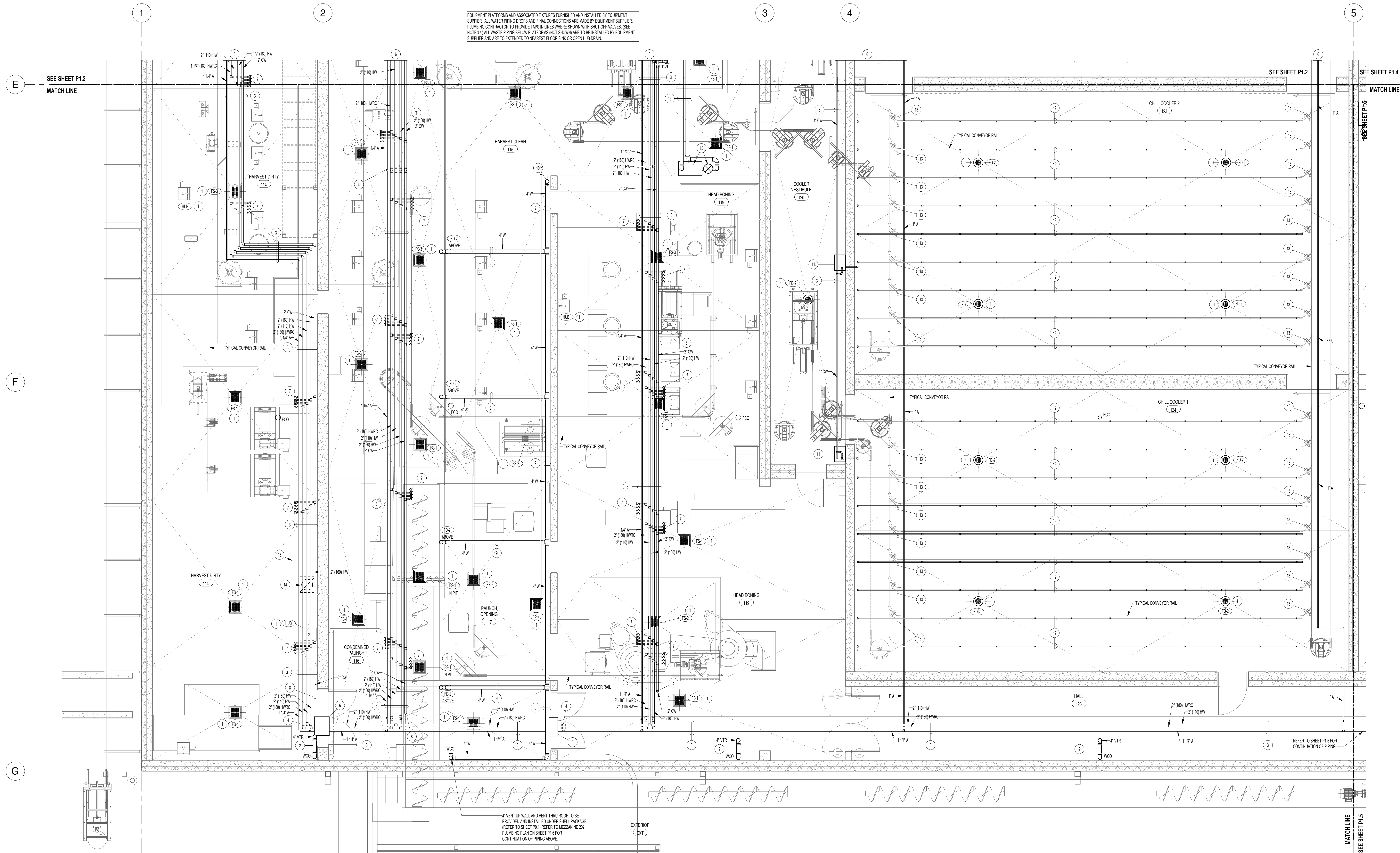
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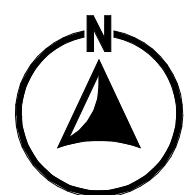
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ENLARGED AREA 2A PLUMBING FLOOR PLAN



EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL WATER PIPING DROPS AND FINAL CONNECTIONS ARE MADE BY EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO PROVIDE TAPS IN LINES WHERE SHOWN WITH SHUT-OFF VALVES. (SEE NOTE #7.) ALL WASTE PIPING BELOW PLATFORMS (NOT SHOWN) ARE TO BE INSTALLED BY EQUIPMENT SUPPLIER AND ARE TO EXTENDED TO NEAREST FLOOR SINK OR OPEN HUB DRAIN.

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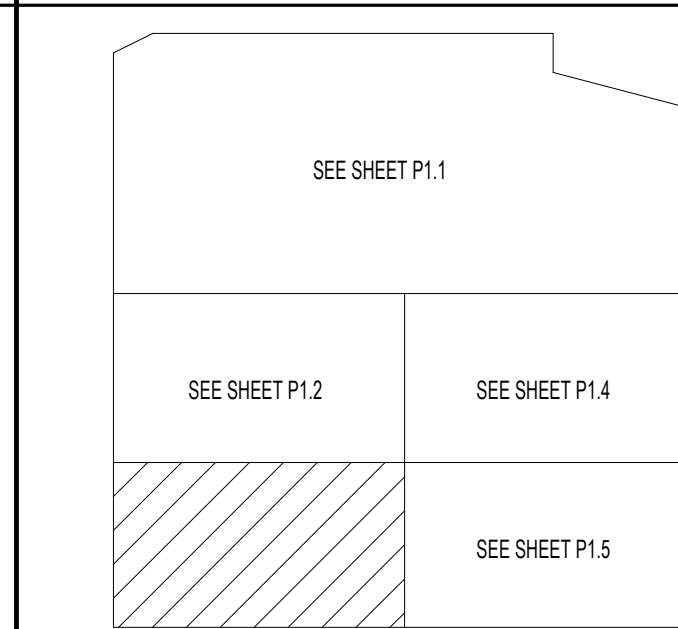
ENLARGED AREA 2B PLUMBING PLAN

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

PLAN NOTES:

- FLOOR DRAIN, FLOOR SINK, AND/OR DRAIN HUB PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. FIXTURES ARE SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR UNDER FLOOR PIPING.
- 4" VENT THRU FLOOR AND 4" VENT THRU ROOF PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. PIPING SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR PIPING.
- RUN PIPING ABOVE EQUIPMENT AND RAILS AS SHOWN AT APPROXIMATELY 20'-0" ABOVE FLOOR. CONTRACTOR WILL NEED TO COORDINATE ACTUAL ELEVATION AND ROUTING OF PIPING IN FIELD WITH EQUIPMENT, SUPPORTS, RAILS, BUILDING STRUCTURE, ETC. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS BELOW PIPING AND SUPPORT FROM ROOF STRUCTURE WITH STAINLESS STEEL RODS. REFER TO DETAIL QPS.1 FOR TYPICAL SUPPORTS AND SUPPORT SPACING.
- DROP PIPING BELOW MEZZANINE FLOOR. COORDINATE WITH MEZZANINE FLOOR STRUCTURE AND KEEP PIPING AS HIGH AS POSSIBLE.
- RUN PIPING THRU BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES (HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC.) NO HOLES LARGER THAN 2" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERING.
- REFER TO SHEET P1.2 FOR CONTINUATION OF PIPING.
- PROVIDE 1" COLD WATER, 1" (110 DEG.) HOT WATER, 1" (180 DEG.) HOT WATER AND 1" (180 DEG.) HOT WATER RECI. LINE TAPS OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.
- CAP COLD WATER LINE WITHIN 15' FROM EXTERIOR WALL.
- RUN WASTE LINE FROM MEZZANINE LEVEL FLOOR DRAINS BELOW MEZZANINE FLOOR AS SHOWN. COORDINATE WITH FLOOR STRUCTURE AND KEEP WASTE PIPING AS HIGH AS POSSIBLE.
- DROP 4" WASTE LINE DOWN WALL AND EXTEND THRU FLOOR. UNDER FLOOR PIPING TO BE INSTALLED UNDER BUILDING SHELL. PACKAGE. REFER TO SHEET P0.1 FOR CONTINUATION OF PIPING BELOW FLOOR. RISE 4" VENT LINE UP THRU MEZZANINE FLOOR AND CONNECT TO 4" VTR. REFER TO MEZZANINE 202 PLAN ON SHEET P1.5 FOR CONTINUATION OF PIPING ABOVE.
- COOLER SPRAY SYSTEM PROVIDED AND INSTALLED BY IDI. ROUGH-IN AND CONNECT 3/4" COLD WATER LINE WITH SHUT-OFF VALVE TO CHILLER UNIT. FIELD VERIFY EXACT LOCATION OF CHILLER UNIT IN FIELD.
- COOLER SPRAY SYSTEM PROVIDED AND INSTALLED BY IDI. NO OTHER WATER PIPING TO BE RUN INSIDE COOLERS OR FREEZERS.
- TYPICAL PNEUMATIC RAIL SWITCH. ROUGH-IN AND CONNECT 1/2" COMPRESSED AIR LINE WITH SHUT-OFF VALVE AND FLEXIBLE HOSE. FIELD VERIFY EXACT LOCATION OF SWITCH AND SIZE OF CONNECTION.
- SATELLITE WASHING STATION PROVIDED AND INSTALLED BY IDI EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 2" (180 DEG.) HOT WATER LINE WITH SHUT-OFF VALVE. FIELD VERIFY EXACT LOCATION OF EQUIPMENT AND ADJUST PIPING AND MIXING VALVE LOCATIONS TO MATCH.
- REMOTE RECEIVING TANK, CIRCULATING PUMPS, AND CHEMICAL WASH BOOTH ALL SUPPLIED BY EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR TO CONNECT ALL EQUIPMENT WITH STAINLESS STEEL PIPING AS REQUIRED. FIELD VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIELD VERIFY EXACT PIPING SIZES FOR EACH PIECE OF EQUIPMENT. PIPING TO BE FURNISHED TO CONNECT PUMPS TO TANK, PUMPS TO BOOTH, AND BOOTH TO TANK. REFER TO CHAD/ EQUIPMENT DRAWINGS.

KEY PLAN



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ENLARGED AREA 2B PLUMBING FLOOR PLAN

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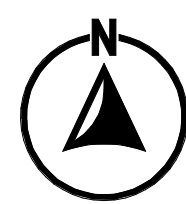
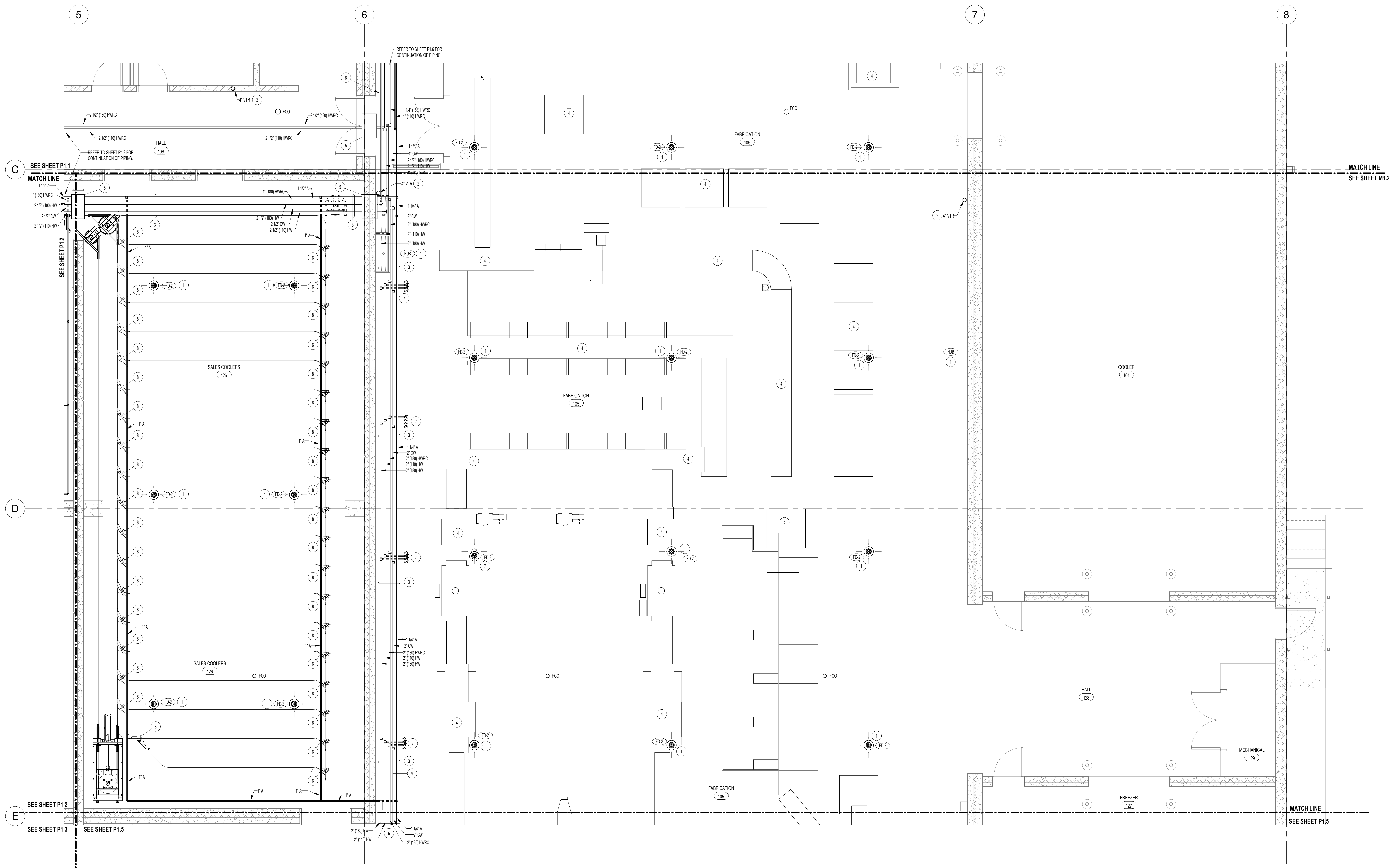
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ENLARGED AREA 3A PLUMBING PLAN

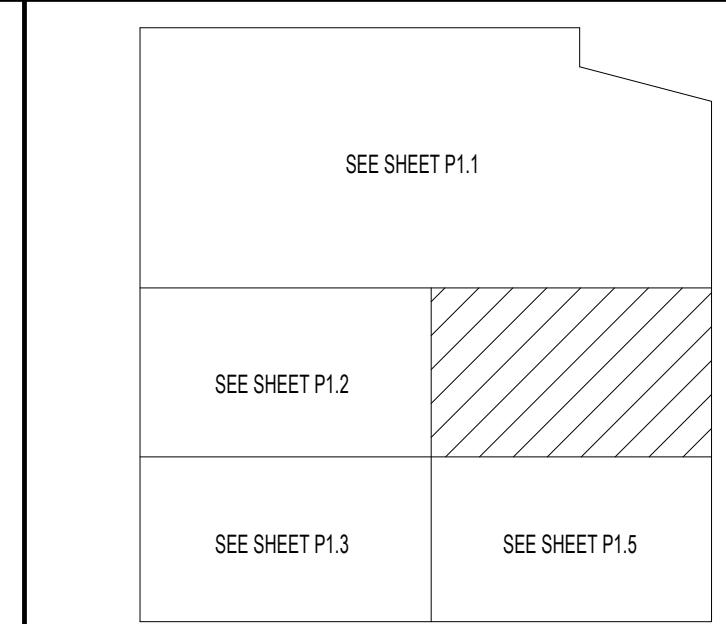
SCALE: 1/4" = 1'-0"

EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL WATER PIPING DROPS AND FINAL CONNECTIONS ARE MADE BY EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO PROVIDE TAPS IN LINES WHERE SHOWN WITH SHUT-OFF VALVES. (SEE NOTE #7.) ALL WASTE PIPING BELOW PLATFORMS (NOT SHOWN) ARE TO BE INSTALLED BY EQUIPMENT SUPPLIER AND ARE TO BE EXTENDED TO NEAREST FLOOR SINK OR OPEN HUB DRAIN.

PLAN NOTES:

- FLOOR DRAIN, FLOOR SINK, AND/OR DRAIN HUB PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. FIXTURES ARE SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P1.1 FOR UNDER FLOOR PIPING.
- 4" VENT THRU FLOOR AND 4" VENT THRU ROOF PROVIDED AND INSTALLED UNDER BUILDING SHELL. BID PACKAGE. PIPING SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P1.1 FOR PIPING.
- RUN PIPING ABOVE EQUIPMENT AND RAILS AS SHOWN AT APPROXIMATELY 20'-0" ABOVE FLOOR. CONTRACTOR WILL NEED TO COORDINATE ACTUAL ELEVATION AND ROUTING OF PIPING IN FIELD WITH EQUIPMENT, SUPPORTS, RAILS, BUILDING STRUCTURE, ETC. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS BELOW PIPING AND SUPPORT FROM ROOF STRUCTURE WITH STAINLESS STEEL RODS. REFER TO DETAIL QP3.1 FOR TYPICAL SUPPORTS AND SUPPORT SPACING.
- EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL PIPING FROM MAIN RUNS DOWN TO PLATFORM FIXTURES TO BE INSTALLED AND CONNECTED BY EQUIPMENT SUPPLIER.
- RUN PIPING THRU BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES (HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC.) AND HOLES LARGER THAN 12" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERING.
- REFER TO SHEET P1.3 FOR CONTINUATION OF PIPING.
- PROVIDE 1" COLD WATER, 1" (110 DEG.) HOT WATER, 1" (180 DEG.) HOT WATER AND 1" (180 DEG.) HOT WATER RECIPIENT LINE TAPS OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.
- TYPICAL PNEUMATIC RAIL SWITCH. ROUGH-IN AND CONNECT 1/2" COMPRESSED AIR LINE WITH SHUT-OFF VALVE AND FLEXIBLE HOSE. FIELD VERIFY EXACT LOCATION OF SWITCH AND SIZE OF CONNECTION.

KEY PLAN



INTERIOR FINISH INTERMOUNTAIN PACKING

1096 E IONA ROAD
IDAHO FALLS, IDAHO 83401

ENLARGE AREA 3A PLUMBING PLAN

PROJECT:

REVISIONS

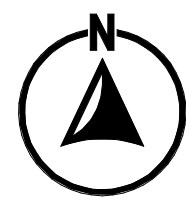
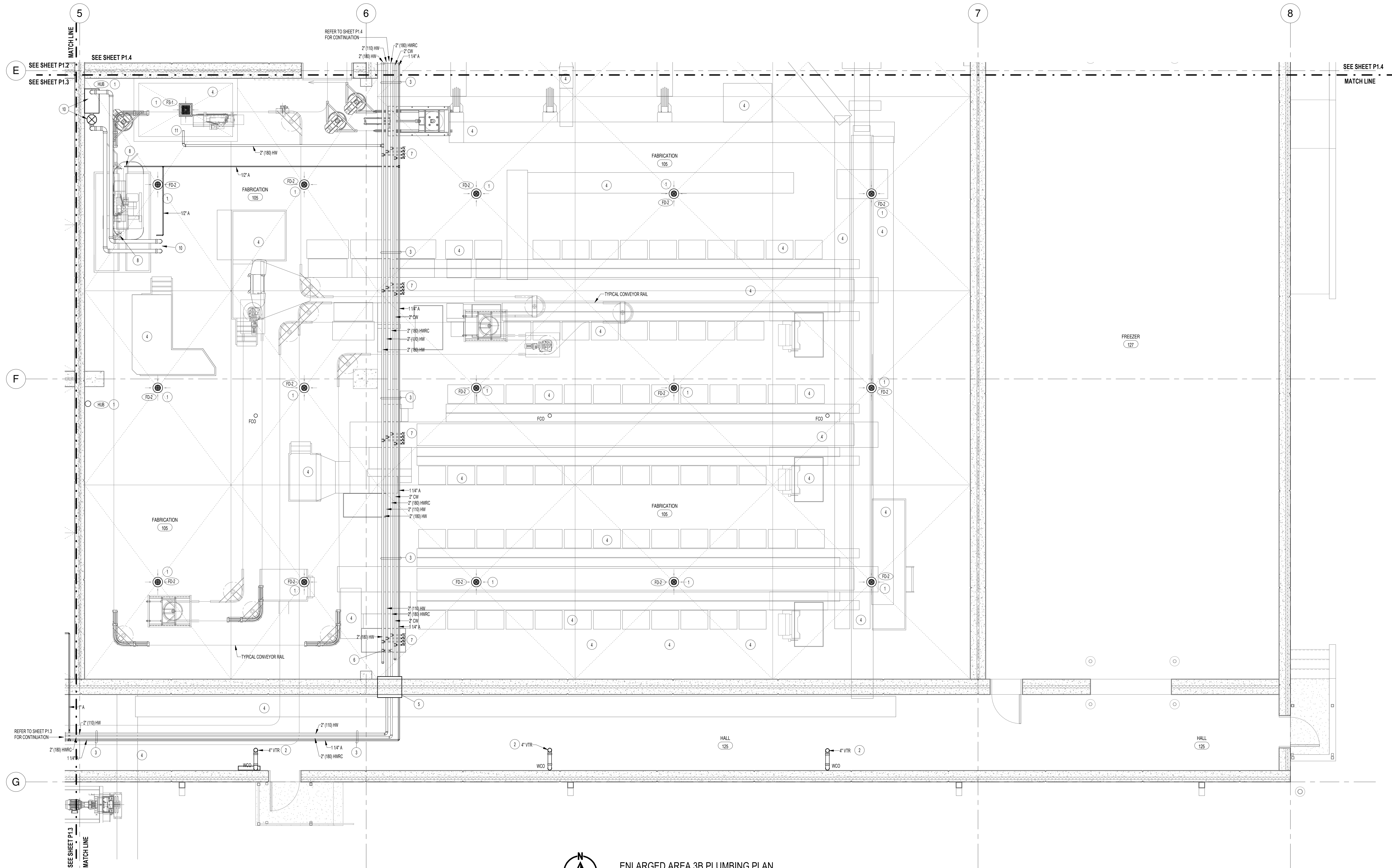
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P1.4

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ENLARGED AREA 3B PLUMBING PLAN

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

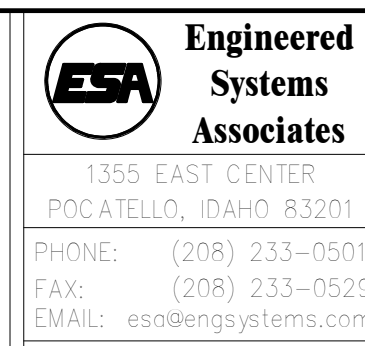
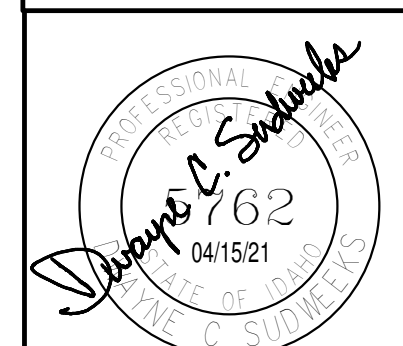
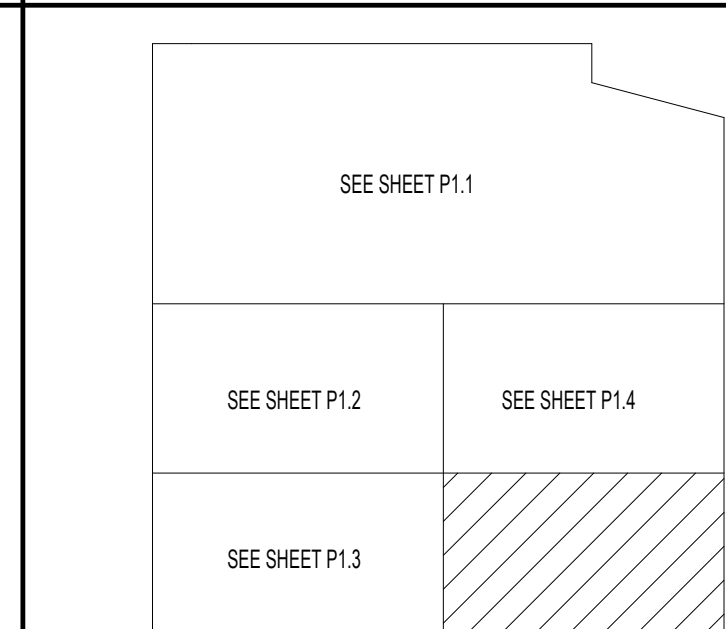
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PLAN NOTES:

- FLOOR DRAIN, FLOOR SINK, AND/OR DRAIN HUB PROVIDED AND INSTALLED UNDER BUILDING SHELL BID PACKAGE. FIXTURES ARE SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR UNDER FLOOR PIPING.
- 4" VENT THRU FLOOR AND 4" VENT THRU ROOF PROVIDED AND INSTALLED UNDER BUILDING SHELL BID PACKAGE. PIPING SHOWN HERE FOR REFERENCE AND COORDINATION. REFER TO FOUNDATION PLAN - SHEET P0.1 FOR PIPING.
- RUN PIPING ABOVE EQUIPMENT AND RAILS AS SHOWN AT APPROXIMATELY 20'-0" ABOVE FLOOR. CONTRACTOR WILL NEED TO COORDINATE ACTUAL ELEVATION AND ROUTING OF PIPING IN FIELD WITH EQUIPMENT, SUPPORTS, RAILS, BUILDING STRUCTURE, ETC. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS BELOW PIPING AND SUPPORT FROM ROOF STRUCTURE WITH STAINLESS STEEL RODS. REFER TO DETAIL QPS.1 FOR TYPICAL SUPPORTS AND SUPPORT BRACING.
- EQUIPMENT PLATFORMS AND ASSOCIATED FIXTURES FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. ALL PIPING FROM MAIN RUNS DOWN TO PLATFORM FIXTURES TO BE INSTALLED AND CONNECTED BY EQUIPMENT SUPPLIER.
- RUN PIPING THRU BLOCK-OUT IN PRE-CAST WALL. COORDINATE WITH OTHER TRADES (HEATING LINES, DUCTWORK, HYDRAULIC PIPING, REFRIGERANT PIPING, ETC.) AND HOLES LARGER THAN 4" ARE TO BE MADE IN PRE-CAST WALL WITHOUT PERMISSION FROM FORTERRA ENGINEERING.
- TIE 1" (180 DEG.) HOT WATER INTO 2" (180 DEG.) HOT WATER RECIRC. LINE.
- PROVIDE 1" COLD WATER, 1" (110 DEG.) HOT WATER, 1" (180 DEG.) HOT WATER AND 1" (180 DEG.) HOT WATER RECIRC. LINE TAPS OFF MAIN LINES. PROVIDE SHUT-OFF VALVE IN EACH LINE FOR FUTURE CONNECTION BY EQUIPMENT INSTALLER. LABEL EACH VALVE CORRESPONDINGLY.

- TYPICAL PNEUMATIC RAIL SWITCH. ROUGH-IN AND CONNECT 1/2" COMPRESSED AIR LINE WITH SHUT-OFF VALVE AND FLEXIBLE HOSE. FIELD VERIFY EXACT LOCATION OF SWITCH AND SIZE OF CONNECTION.
- SATELLITE WASHING STATION PROVIDED AND INSTALLED BY OPI EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 2" (180 DEG.) HOT WATER LINE WITH SHUT-OFF VALVE. FIELD VERIFY EXACT LOCATION OF EQUIPMENT AND ADJUST PIPING AND MIXING VALVE LOCATIONS TO MATCH.
- REMOTE RECEIVING TANK, CIRCULATING PUMPS, AND CHEMICAL WASH BOOTH ALL SUPPLIED BY EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR TO CONNECT ALL EQUIPMENT WITH STAINLESS STEEL PIPING AS REQUIRED. FIELD VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIELD VERIFY EXACT PIPING SIZES FOR EACH PIECE OF EQUIPMENT. PIPING TO BE FURNISHED TO CONNECT PUMPS TO TANK, PUMPS TO BOOTH, AND BOOTH TO TANK. REFER TO CHAD EQUIPMENT DRAWINGS.

KEY PLAN



PROJECT:

REVISIONS

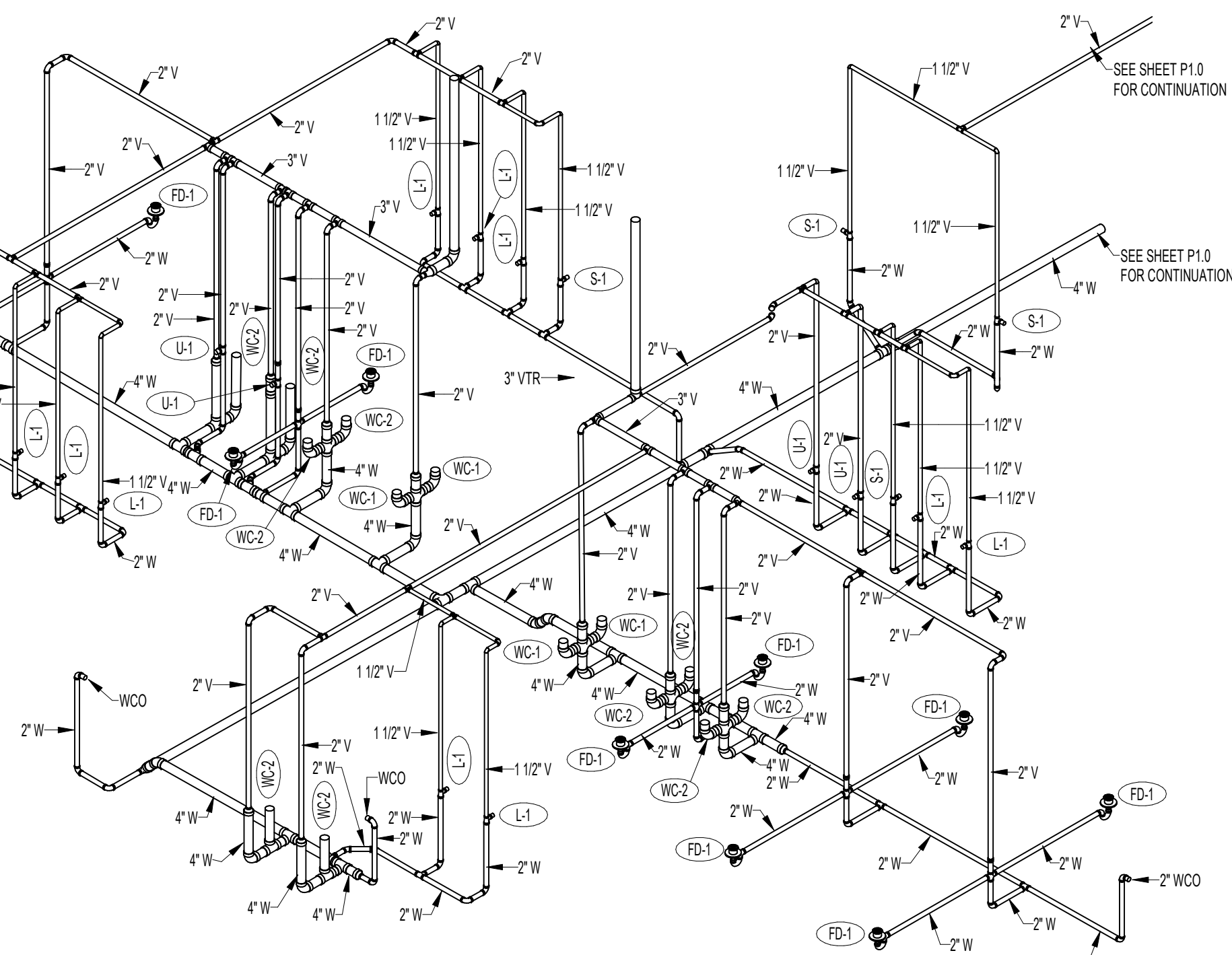
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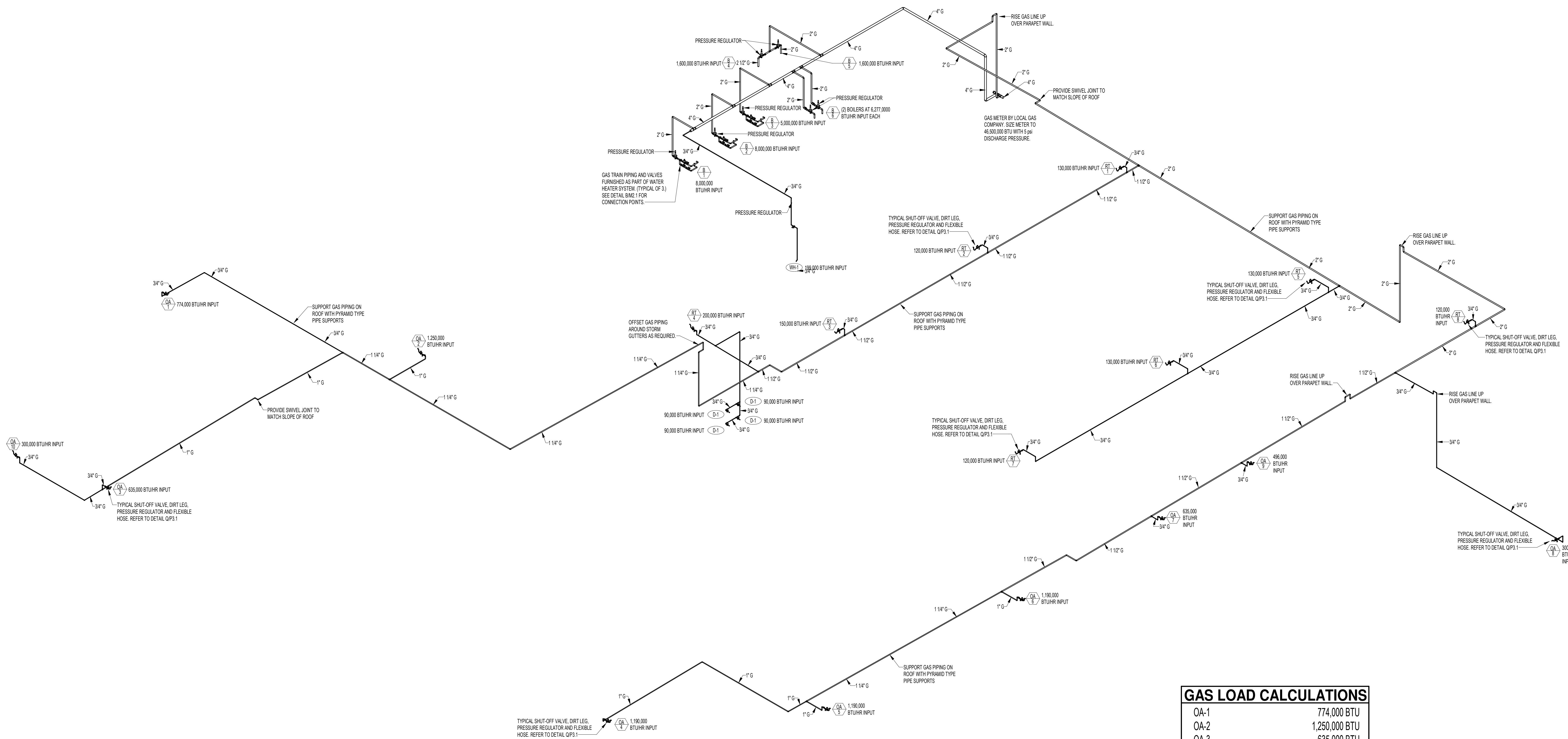
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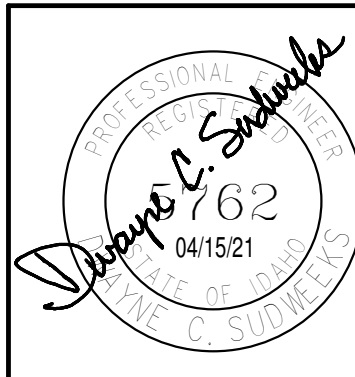


1 GAS PIPING ISOMETRIC
P2.3 SCALE:

GAS LOAD CALCULATIONS

OA-1	774,000 BTU
OA-2	1,250,000 BTU
OA-3	635,000 BTU
OA-4	1,190,000 BTU
OA-5	1,190,000 BTU
OA-6	1,190,000 BTU
OA-7	635,000 BTU
OA-8	300,000 BTU
OA-9	496,000 BTU
OA-10	300,000 BTU
RT-1	130,000 BTU
RT-2	120,000 BTU
RT-3	150,000 BTU
RT-4	200,000 BTU
RT-5	130,000 BTU
RT-6	130,000 BTU
RT-7	120,000 BTU
RT-8	120,000 BTU
B-1	8,000,000 BTU
B-2	8,000,000 BTU
B-3	5,000,000 BTU
B-4	1,600,000 BTU
B-5	1,600,000 BTU
B-6	6,277,000 BTU
B-6	6,277,000 BTU
WH-1	199,000 BTU
D-1	90,000 BTU
D-1	90,000 BTU
D-1	90,000 BTU
D-1	90,000 BTU

TOTAL EQUIPMENT BTU LOAD	46,373,000
BTU/CU. FT.	1000
TOTAL DESIGN LOAD	46,500,000
DEVELOPED LENGTH OF PIPING	450 FT.
DISCHARGE PRESSURE	5 PSI
GAS LINE SIZE	4"



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GAS PIPING ISOMETRIC

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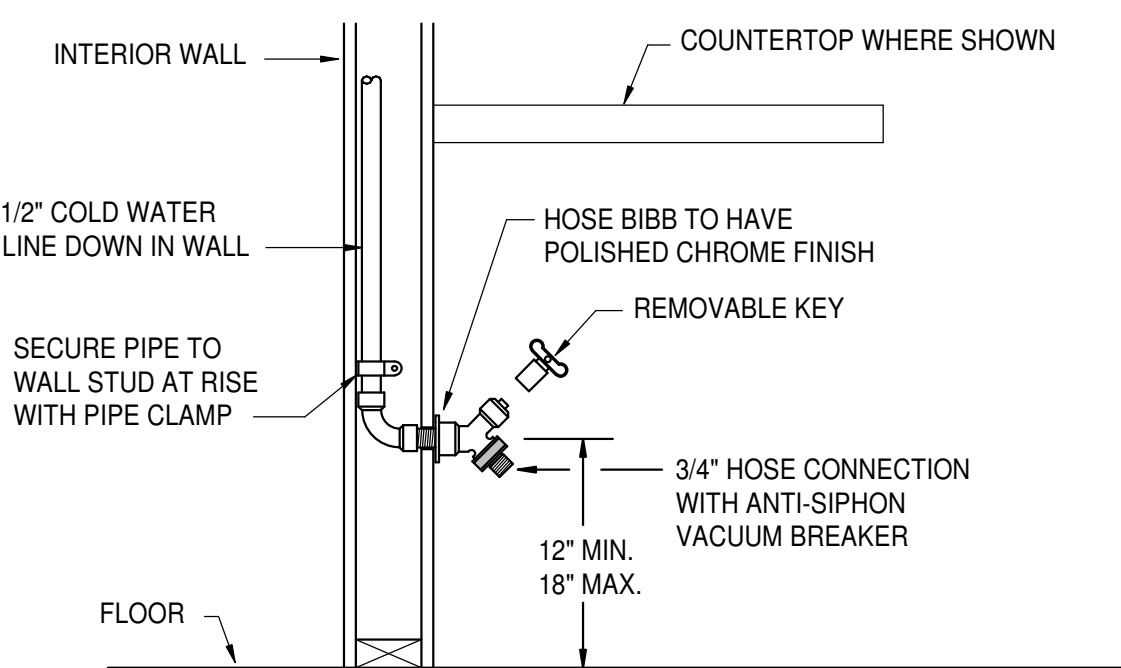
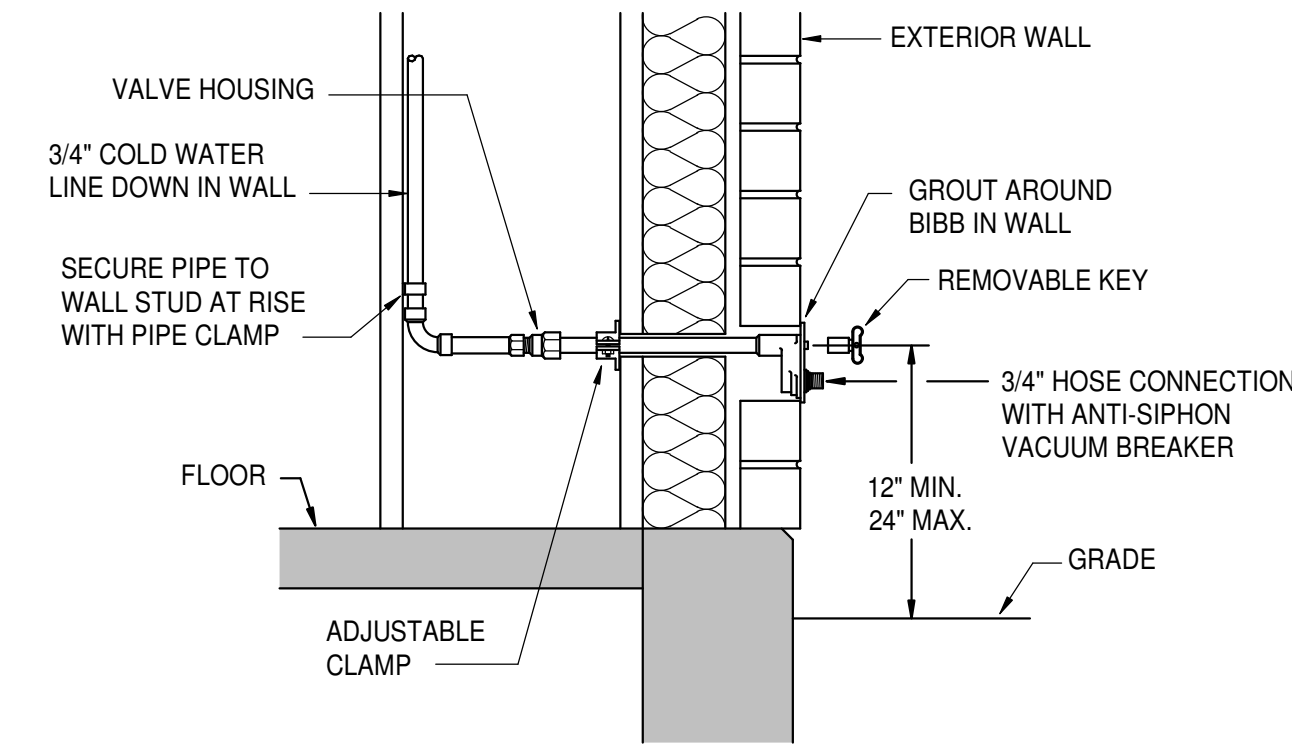
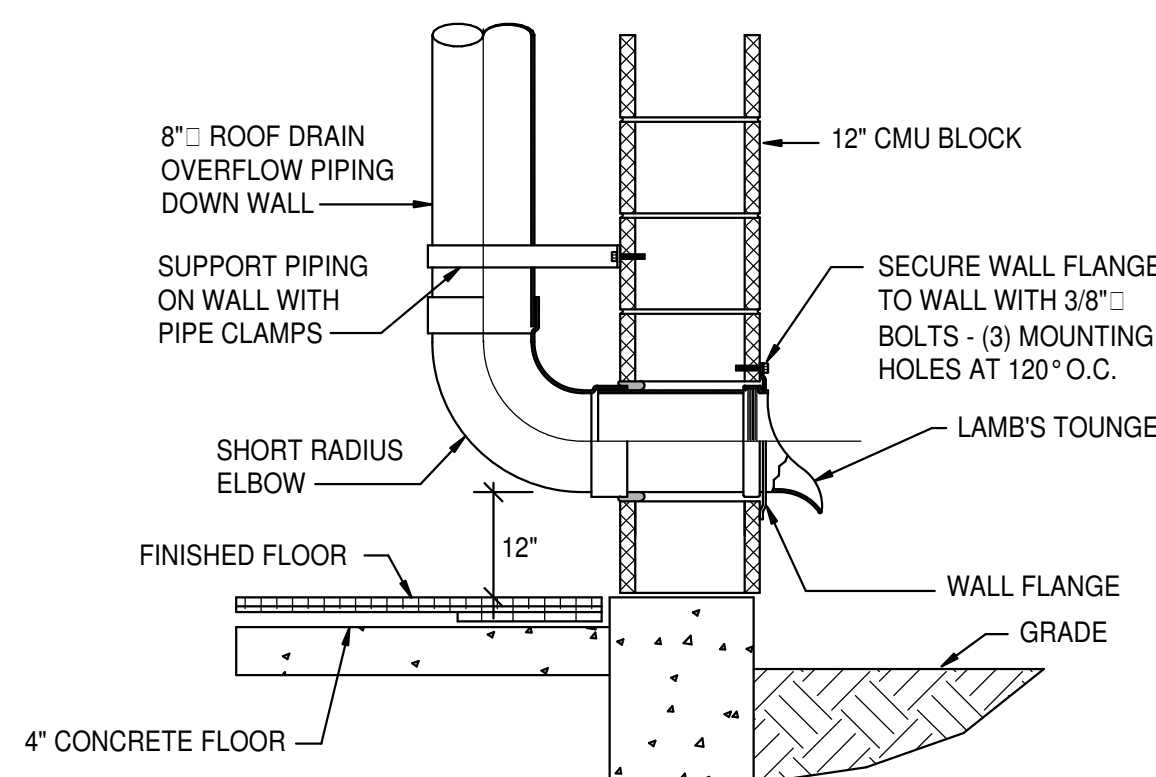
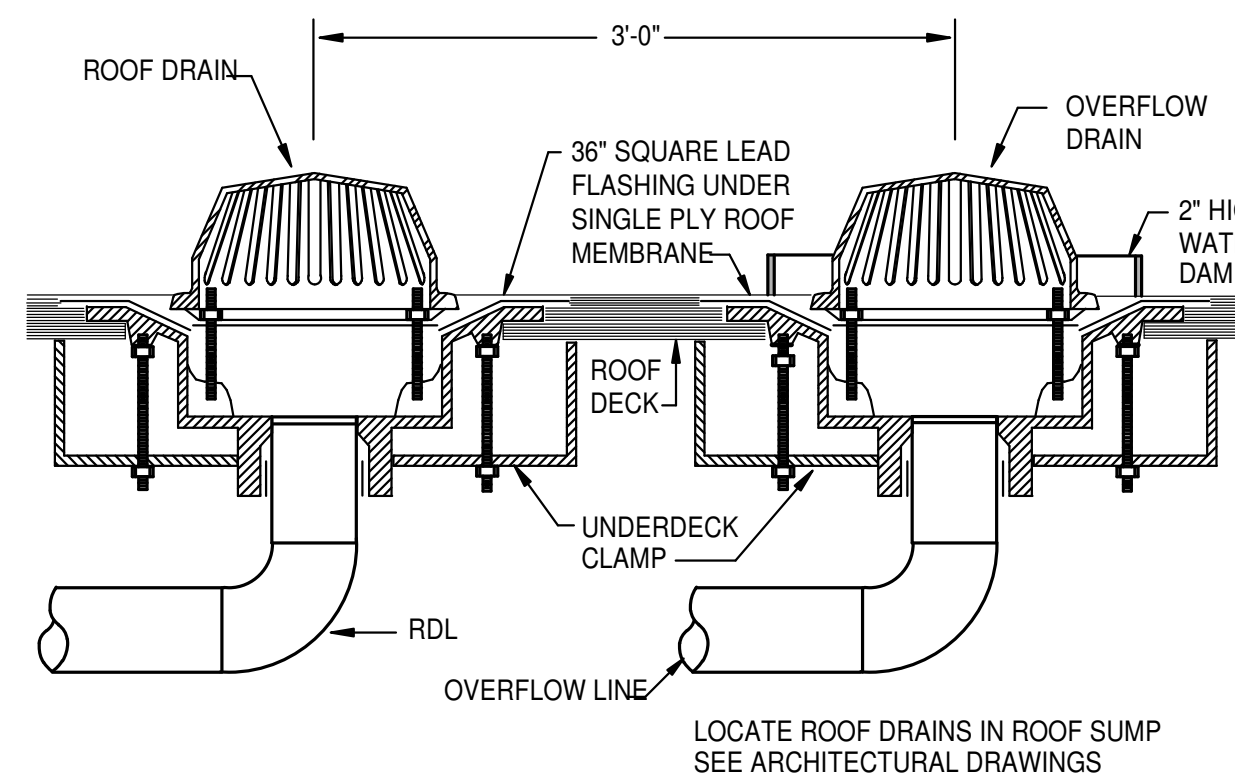
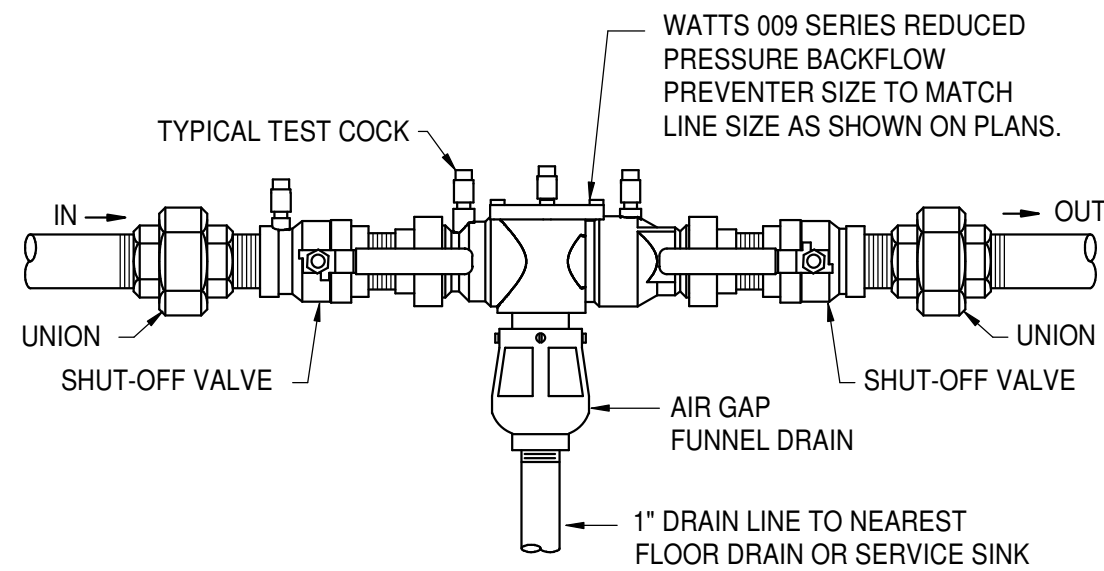
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A BACK-FLOW PREVENTER DETAIL

NO SCALE

B ROOF DRAIN DETAIL

NO SCALE

C WALL FLANGE DETAIL

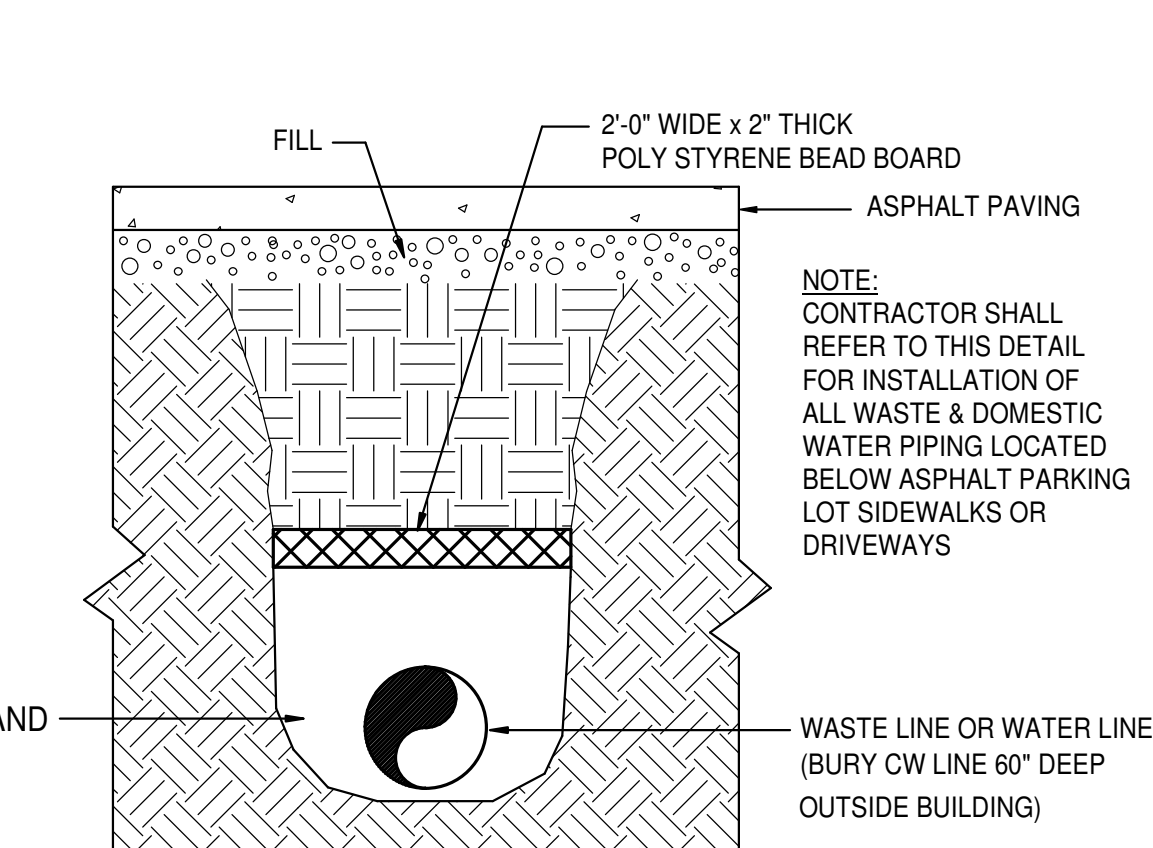
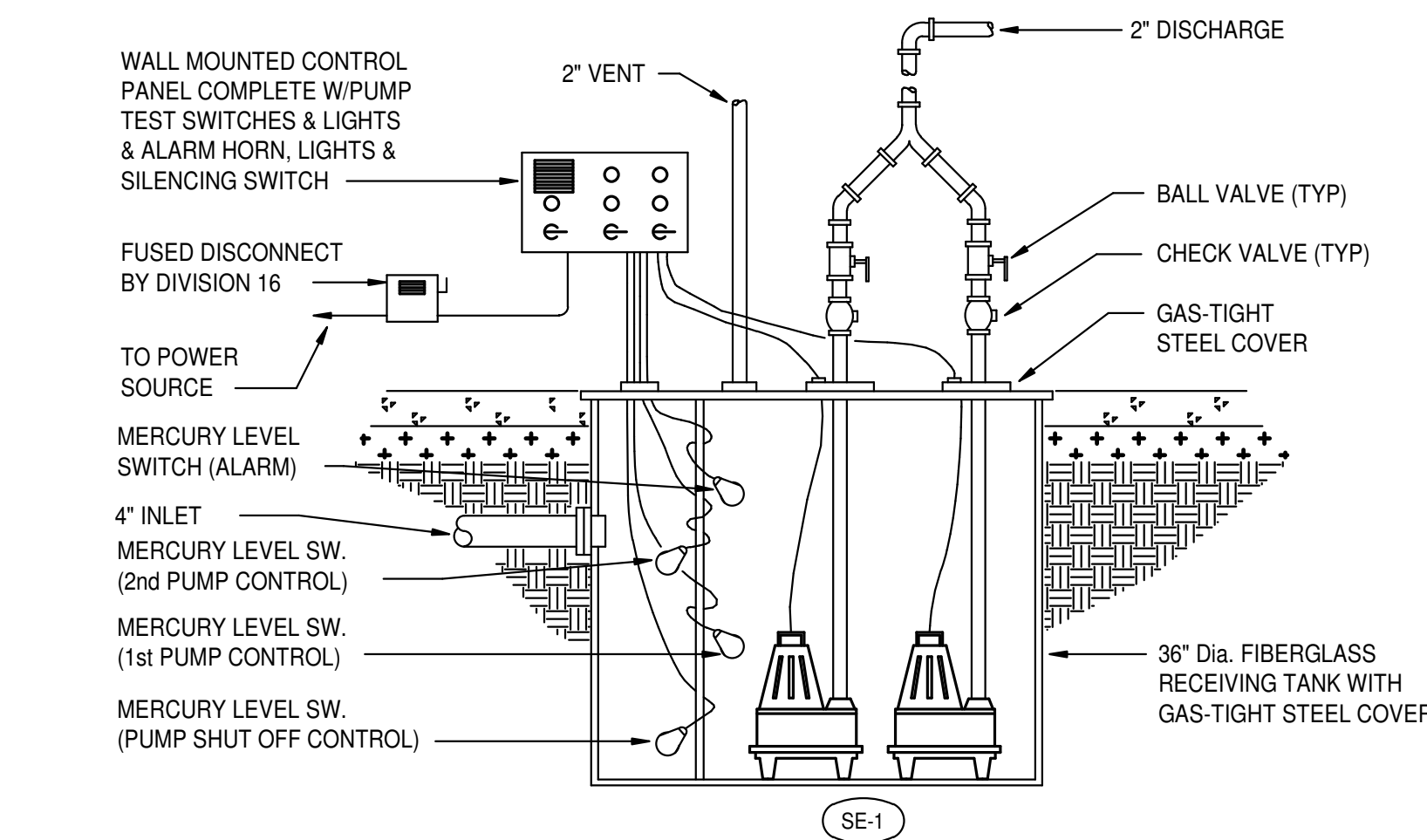
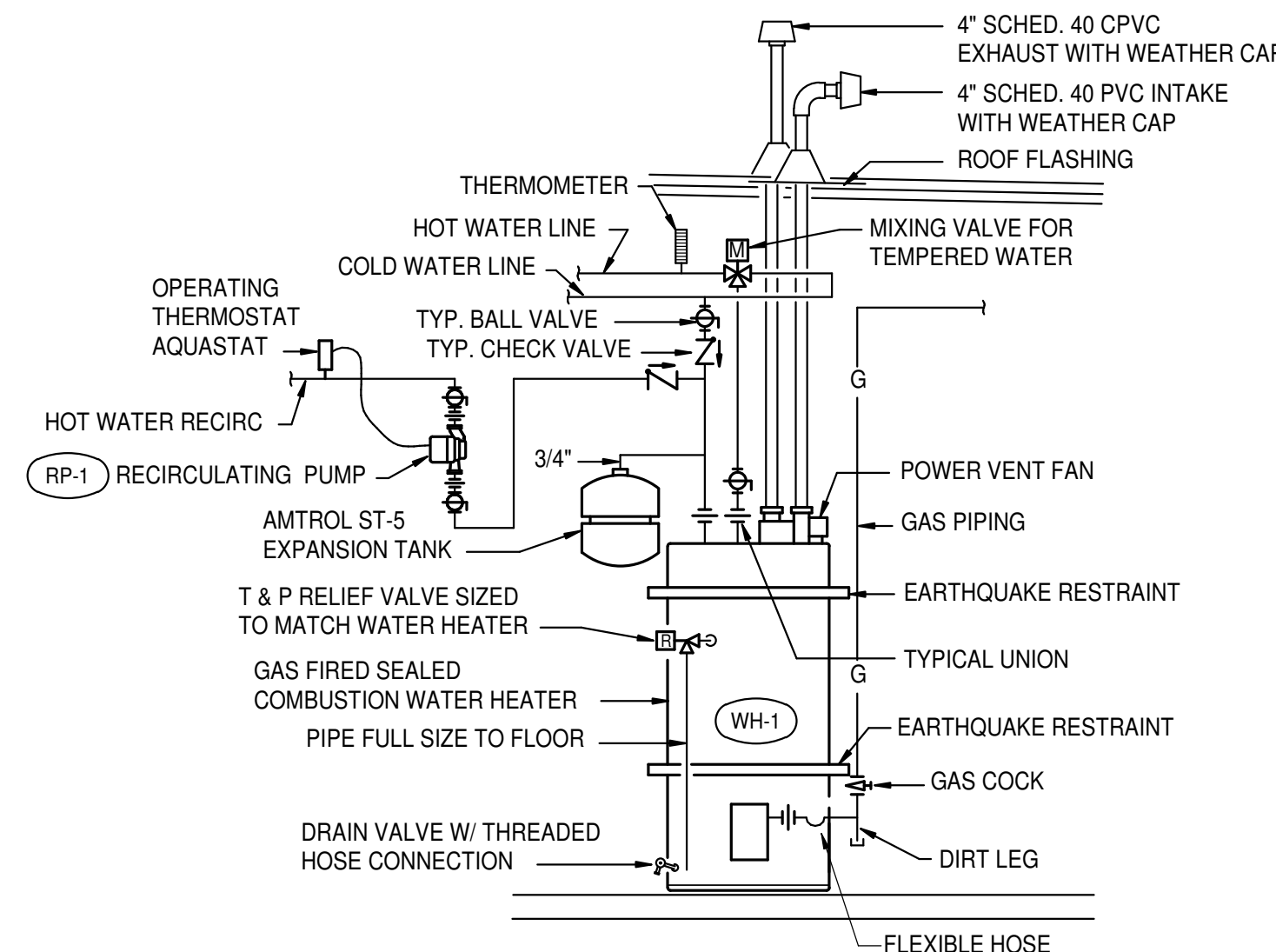
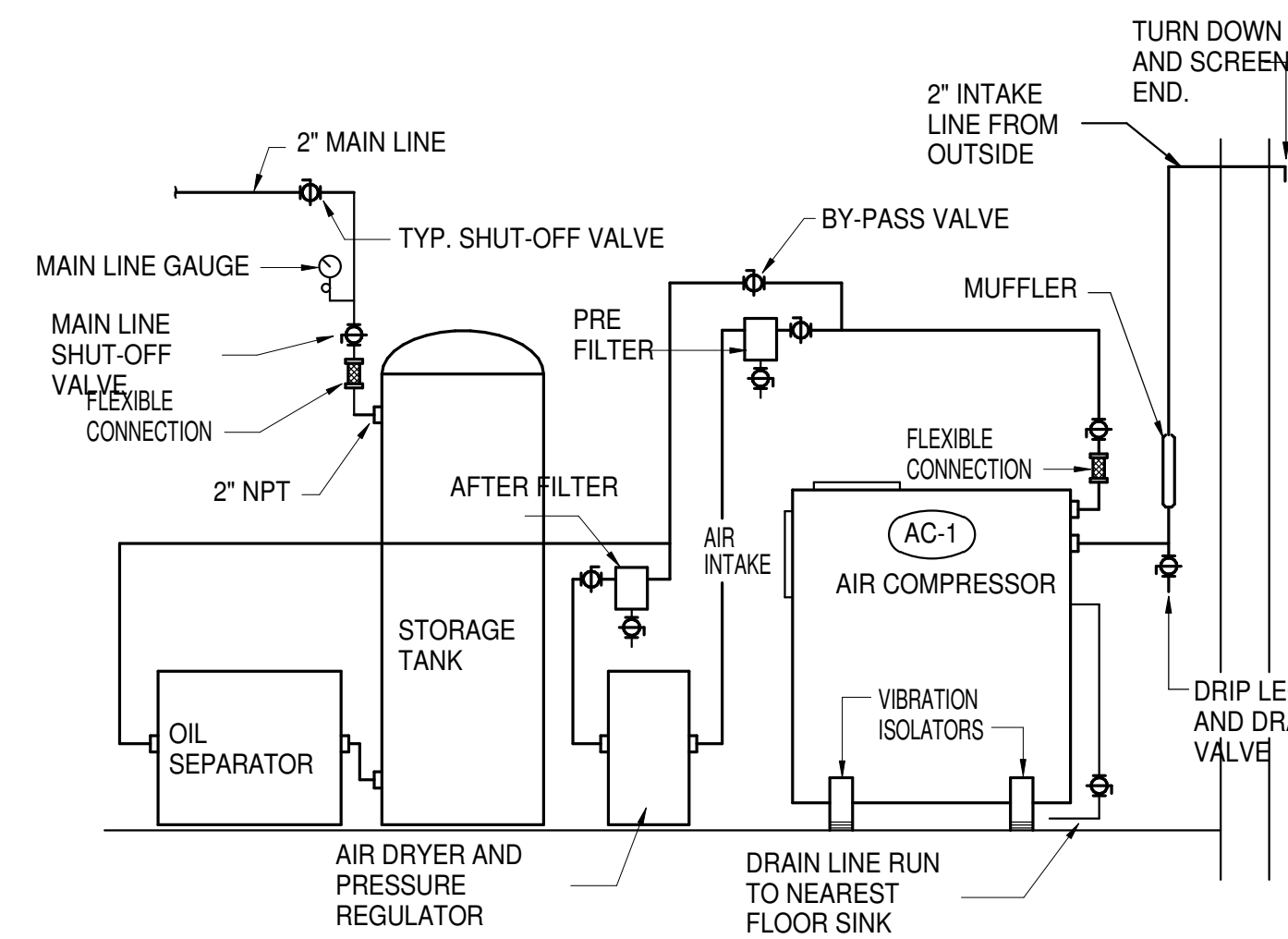
NO SCALE

D EXTERIOR HOSE BIBB DETAIL

NO SCALE

E INTERIOR HOSE BIBB DETAIL

NO SCALE



F AIR COMPRESSOR PIPING DETAIL

NO SCALE

G WATER HEATER PIPING DIAGRAM

NO SCALE

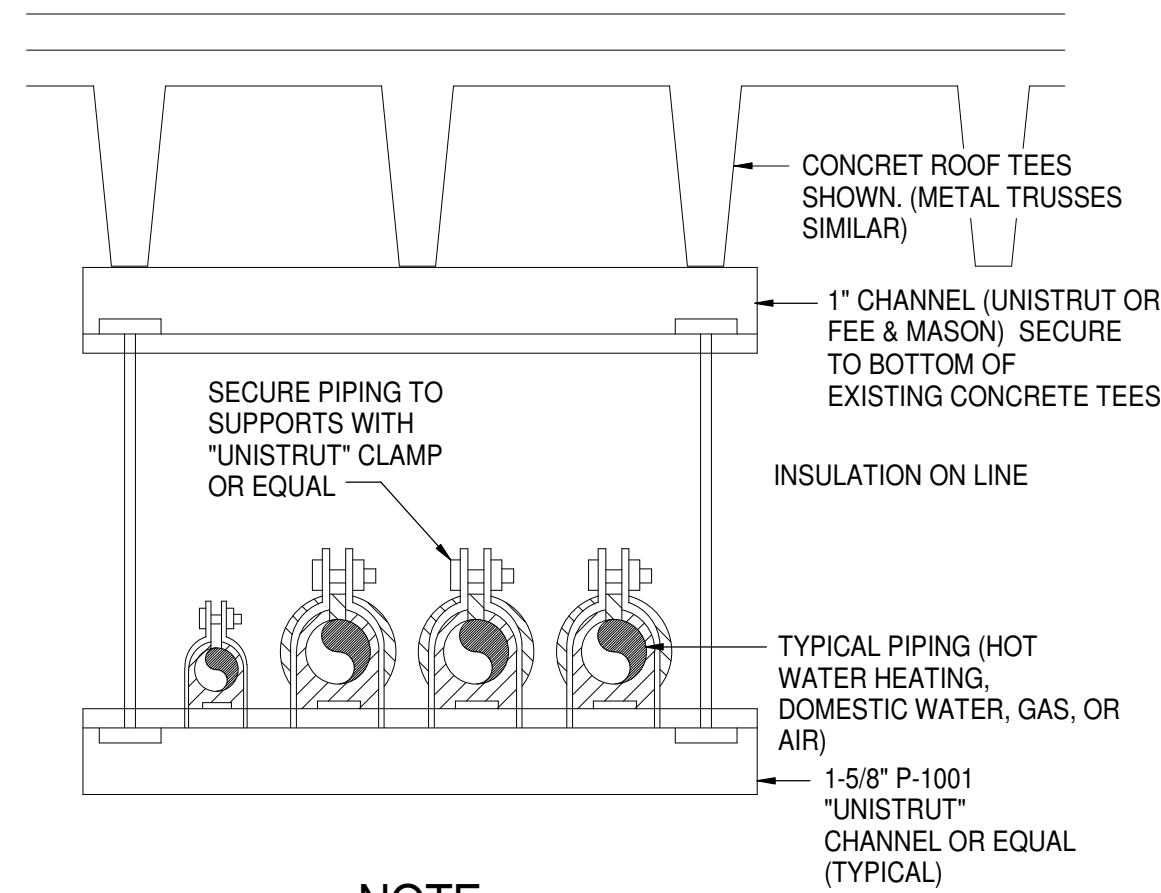
H SEWAGE EJECTOR PUMP DETAIL

NO SCALE

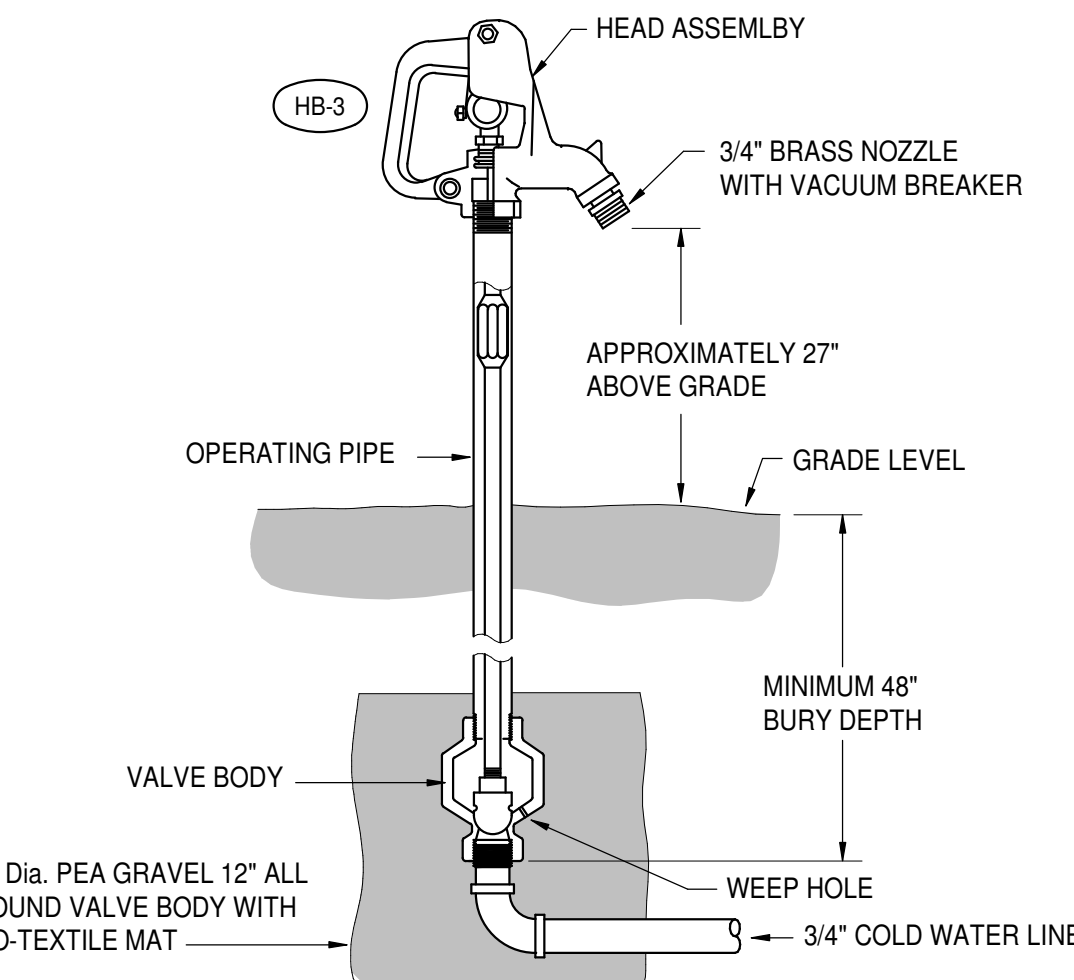
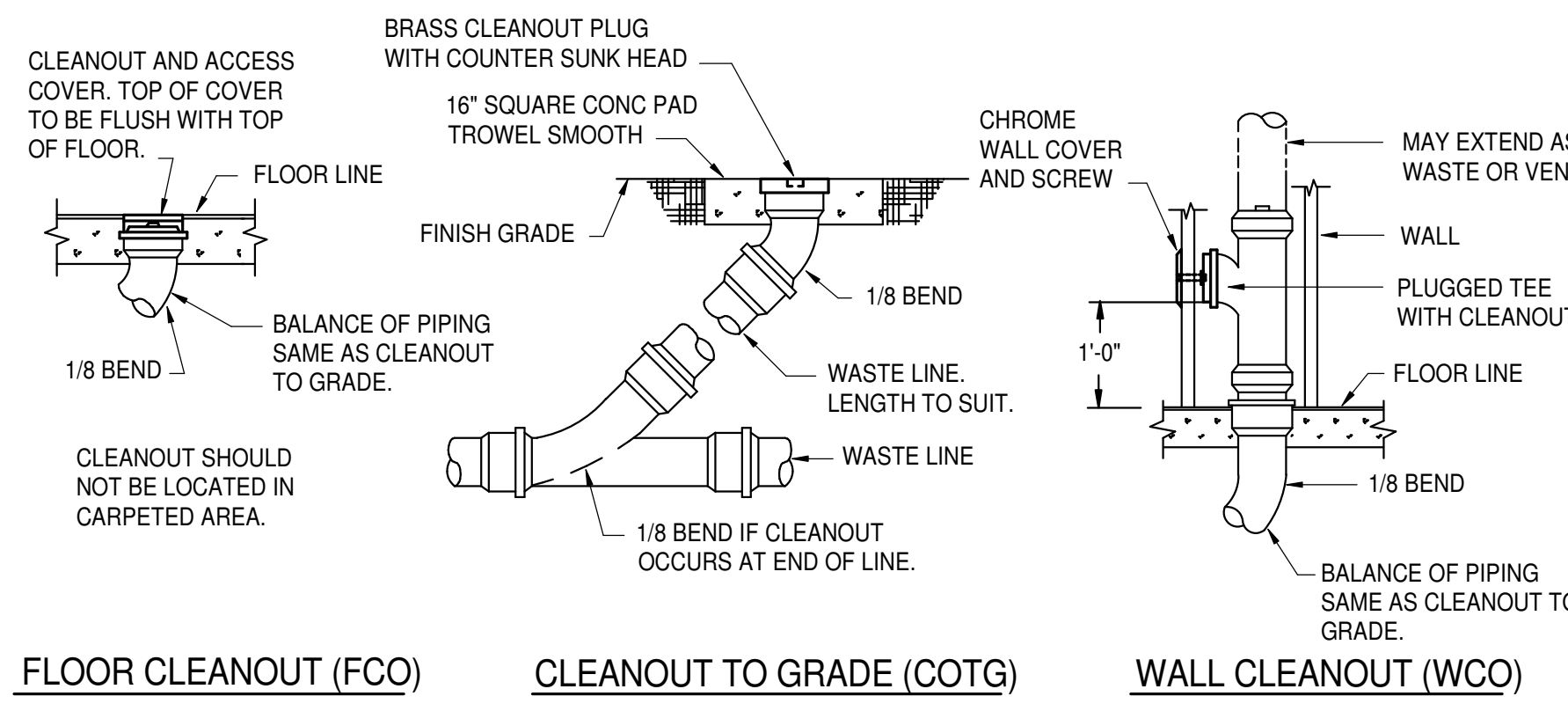
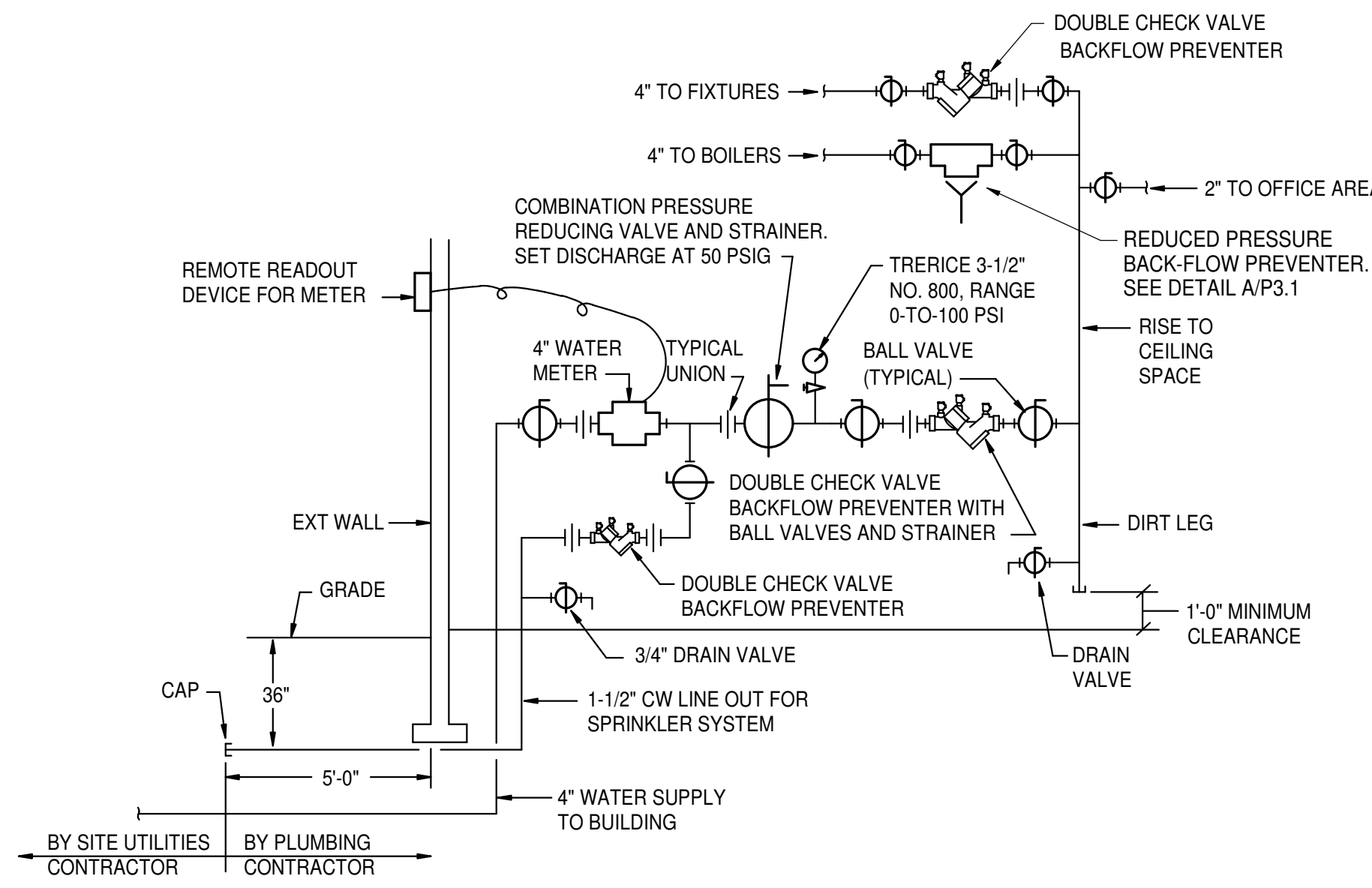
J UNDERGROUND PIPE INSULATION

NO SCALE

PIPE	MAX. SPAN*
1"	7'-0"
1-1/2"	9'-0"
2"	10'-0"
2-1/2"	11'-0"
3"	12'-0"
4"	14'-0"
5"	16'-0"
6"	17'-0"
8"	19'-0"



NOTE:
KEEP PIPE SUPPORTS UP HIGH AS POSSIBLE IN CORRIDORS. CABLE TRAY IS TO BE MOUNTED BELOW PIPING. REFER TO ELECTRICAL DRAWINGS.



K PIPE SUPPORT DETAIL

NO SCALE

L WATER PRESSURE REDUCING STATION

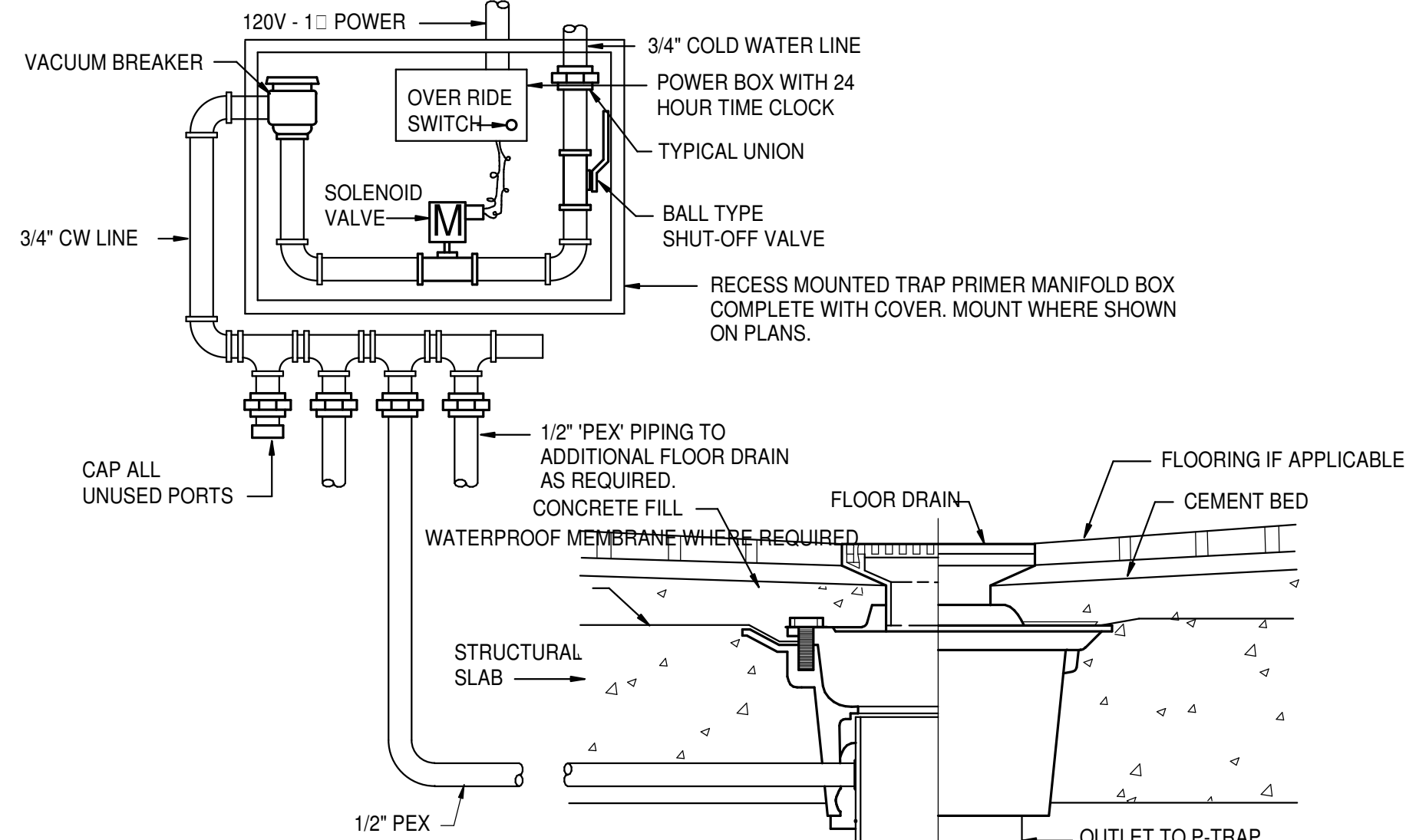
NO SCALE

M CLEAN OUT DETAILS

NO SCALE

N YARD HYDRANT DETAIL

NO SCALE



O TRAP PRIMER MANIFOLD DETAIL

NO SCALE

P GAS LINE CONNECTION FOR ROOFTOP EQUIPMENT

NO SCALE

Q GAS LINE CONNECTION DETAIL

NO SCALE

R UNDER COUNTER WATER HEATER

NO SCALE

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PLUMBING DETAILS

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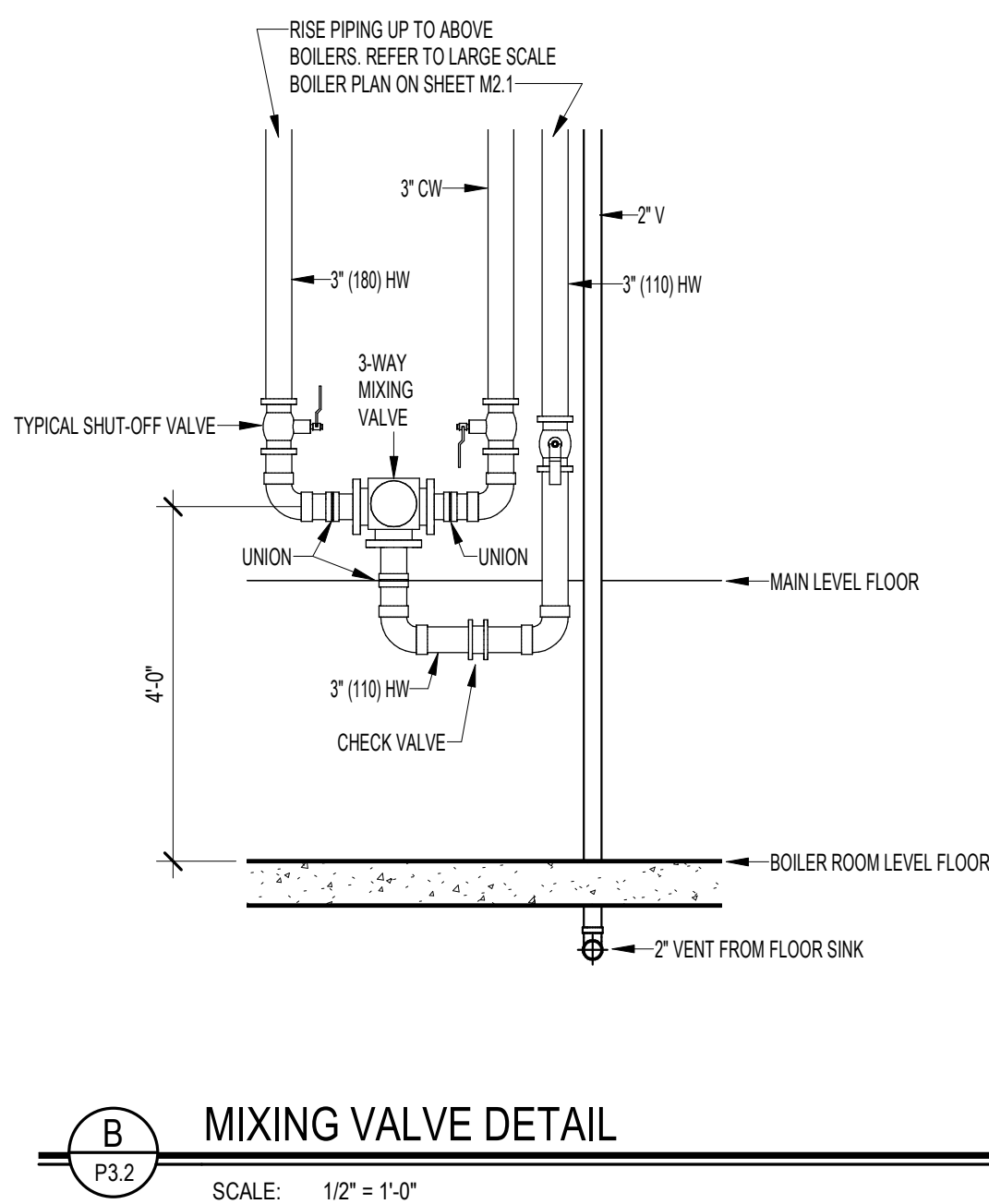
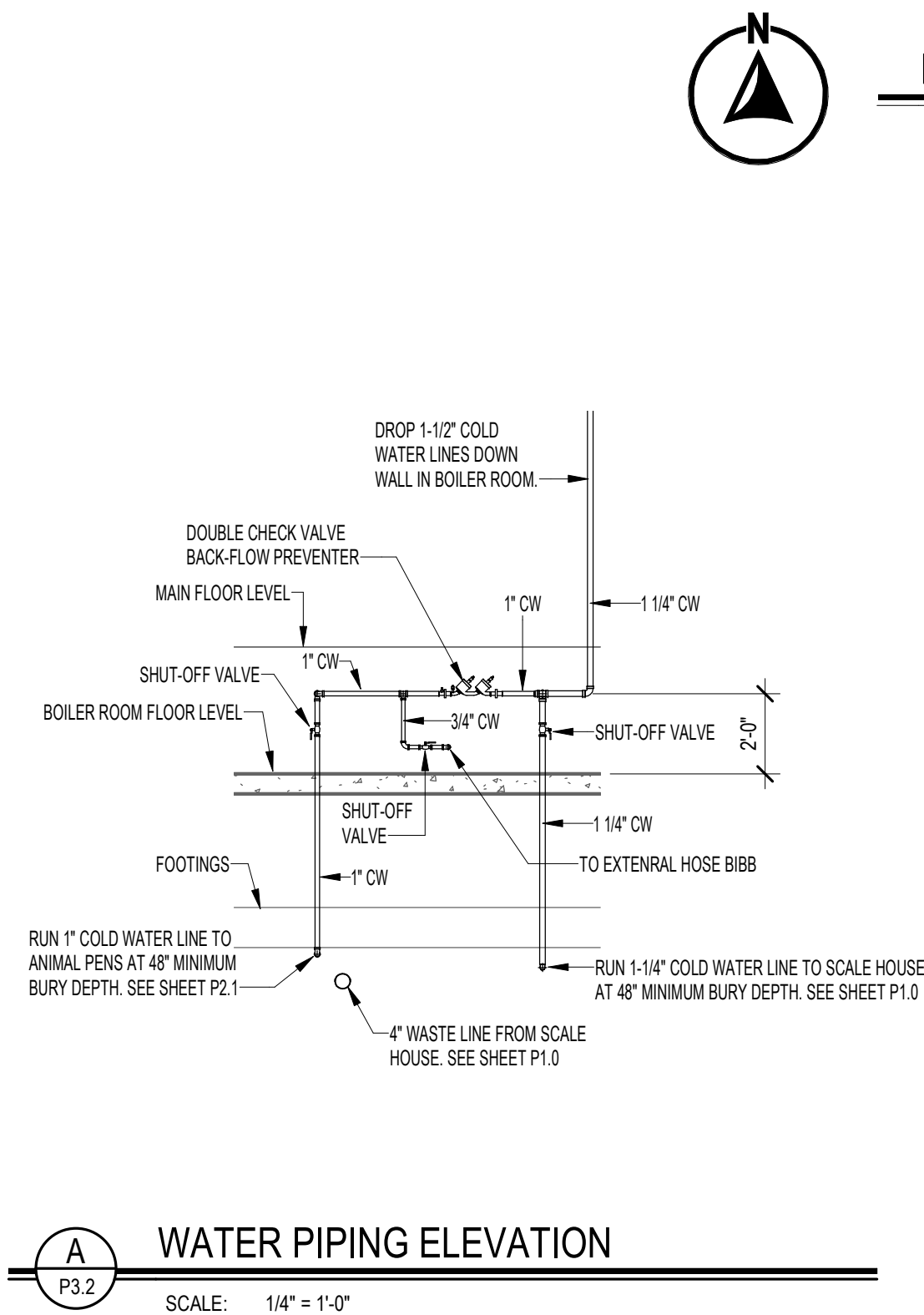
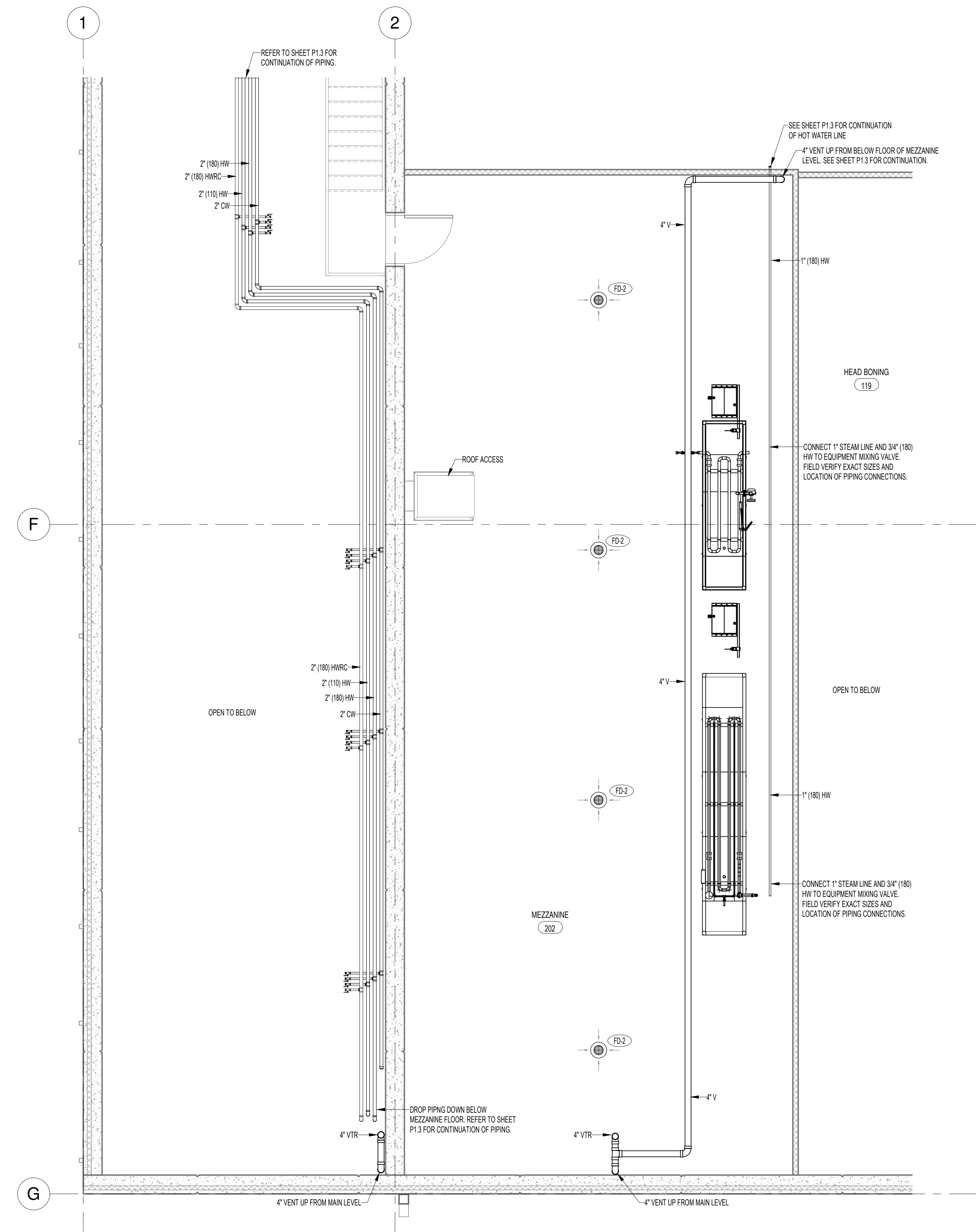
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PLUMBING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	HOT	COLD	WASTE	VENT	GAS	AIR
(RP-1)	HOT WATER RECHRG PUMP - B&G SERIES LR-208F LITTLE RED [®] WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT NEW WATER HEATER.	3/4"	--	--	--	--	--
(S-1)	SINGLE COMPARTMENT SINK - ELKAY LR-2219 STAINLESS STEEL SINK WITH LK-89 HEAVY DUTY STRAINER, 1/2" BRASS H-ARC FAUCET WITH LEVER HANDLE CONTROL, 1/2" STOPS AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"	--	--
(S-2)	UTILITY SINK - MUSTEE MODEL 19HW WALL MOUNTED UTILITY SINK WITH ELKAY 5940C WALL MOUNTED FAUCET COMPLETE WITH BRACKER, BUCKET PAIL AND VACUUM BREAKER, AND ELKAY LK-89 HEAVY DUTY STRAINER, 1/2" STOPS AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"	--	--
(SE-1)	SEWAGE EJECTOR - MEYRS SRM4 WITH 40 GPM CAPACITY AT 12' HEAD AND 2" DISCHARGE LINE, 1/4" MOTOR (120V/60/1 - 15 AMPS) AND 2" SOLIDS CAPABILITY. (2) PUMPS REQUIRED COMPLETE WITH 30" DIAMETER BASIN, FLOOR SWITCH OPERATORS AND GAS-TIGHT LID. REFER TO DETAIL WP3.1 FOR TYPICAL INSTALLATION.	--	--	2"	3"	--	--
(SH-1)	EMERGENCY SHOWER - BRADLEY MODEL WS-16-14N RECESSED SHOWER VALVE AND HEAD, TO BE COMPLETE WITH FIXED SWIVEL HEAR, HAND HELD HEAD WITH STAINLESS STEEL FLEXIBLE HOSE, DIVERTING VALVE, AND TEMPERATURE BALANCED VALVE.	1/2"	1/2"	2"	2"	--	--
(TD-1)	TRENCH DRAIN - MIFAB T1400 PROFORMER [®] TRENCH DRAIN COMPLETE WITH PRE-SLOPED SECTION WITH END CAPS AND 4" END OUTLET CONNECTION. PROVIDE SLOTTED GRATE.	--	--	4"	2"	--	--
(TP-1)	SINGLE DRAIN TRAP PRIMER - ZURN Z-1022XL IN-LINE PRIMER MOUNT RECESSED IN WALL BELOW LAVATORY WHERE SHOWN ON PLANS. RUN 1/2" COLD WATER LINE(S) BELOW FLOOR TO FLOOR DRAIN.	--	1/2"	--	--	--	--
(TP-2)	MULTIPLE DRAIN TRAP PRIMER - ZURN Z-1022XL 15-CW ELECTRONIC TRAP PRIMER SYSTEM. MOUNT RECESSED IN WALL WITH LOCKING COVER. RUN 1/2" COLD WATER LINE BELOW FLOOR TO EACH FLOOR DRAIN.	--	3/4"	--	--	--	--
(U-1)	URINAL - KOHLER MODEL 4884-T "FRESHMAN" WITH SLOAN 8186 OPTIMA PLUS (BATTERY) SENSOR FLUSH VALVE AND WALL CARRIER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.	--	3/4"	2"	2"	--	--
(WB-1)	WASHER - FURNISHED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" HOT AND COLD WATER LINES WITH SHUT-OFF VALVES. PROVIDE WATER HAMMER ARRESTOR ON EACH LINE. PROVIDE 3/4" BY 60" LONG FLEXIBLE WATER HOSES. RUN DRAIN TO TRENCH DRAIN.	3/4"	3/4"	TO TRENCH DRAIN	--	--	--
(WC-1)	ADA FLUSH VALVE WATER CLOSET - KOHLER K-86057 "HIGHLIFT" WITH ELONGATED BOWL, K-4670-C WHITE OPEN FRONT SEAT, SLOAN 8111 OPTIMA PLUS (BATTERY) SENSOR FLUSH VALVE AND BOLT CAPS.	--	1"	4"	2"	--	--
(WC-2)	ADA FLUSH VALVE WATER CLOSET - KOHLER K-86053 "WELLCOME" WITH ELONGATED BOWL, K-4670-C WHITE OPEN FRONT SEAT, SLOAN 8111 OPTIMA PLUS (BATTERY) SENSOR FLUSH VALVE AND BOLT CAPS.	--	1"	4"	2"	--	--
(WF-1)	4" OVERFLOW WALL FLANGE - JAY R. SMITH MODEL 1770 WITH ROUGH BRONZE CONSTRUCTION, WALL FLANGE AND 4" DRAIN LINE CONNECTION.	--	--	4"	--	--	--
(WF-2)	6" OVERFLOW WALL FLANGE - JAY R. SMITH MODEL 1770 WITH ROUGH BRONZE CONSTRUCTION, WALL FLANGE AND 6" DRAIN LINE CONNECTION.	--	--	6"	--	--	--
(WH-1)	GAS FIRED WATER HEATER - A.O. SMITH BTH-189 WITH SEALED COMBUSTION CHAMBER, 100 GALLON GLASS LINED TANK, 99,000 BTU INPUT AND TOP RELIEF VALVE, EXHAUSTION TANK, HEAT TRAP NIPPLES, AND SYMMON 7-700 MIXING VALVE. EXTEND 4" DIA. VENT UP THRU ROOF WITH WEATHER CAPS. REFER TO DETAIL RP3.1.	1-1/2"	1-1/2"	--	--	--	--
(WH-2)	POINT OF USE WATER HEATER - EMAX MODEL SP012 WITH 3.0 KW HEATING ELEMENT (25 AMPS) AND 1/2" WATER LINE CONNECTIONS. (120 VOLTS - 1 PHASE) REFER TO DETAIL RP3.1 FOR TYPICAL PIPING CONNECTIONS.	1/2"	1/2"	--	--	--	--

PLUMBING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	HOT	COLD	WASTE	VENT	GAS	AIR
(AC-1)	AIR COMPRESSOR - QUINCY MODEL QGD-40 FIXED SPEED, ROTARY SCREW COMPRESSOR WITH 100 GALLON VERTICAL STORAGE TANK, 40 HP MOTOR (480V/3), 175 HCFW WITH 85-psi PRESSURE. PROVIDE MATCHING AIR DRYER AND OIL SEPARATOR WITH COMPRESSOR. REFER TO DETAIL FP3.1 FOR TYPICAL PIPING CONNECTIONS.	--	--	--	--	--	2"
(CMF)	COFFEE MAKER - PROVIDE 3/8" COLD WATER LINE WITH SHUT-OFF VALVE BELOW COUNTER FOR FUTURE COFFEE MACHINE. CONNECT TO ADJACENT FIXTURE WATER PIPING.	--	3/8"	RUN TO ADJACENT SINK WASTE LINE	--	--	--
(D-1)	GAS DRYER - FURNISHED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" GAS LINE WITH SHUT-OFF VALVE, PRESSURE REGULATOR AND FLEXIBLE HOSE. REFER TO DETAIL QP3.1 FOR TYPICAL GAS LINE CONNECTION.	--	--	--	--	3/4"	--
(DF-1)	B/L LEVEL DRINKING FOUNTAIN - ELKAY MODEL L232LWSLP AND E2320 BOTTLE FILLER COMPLETE WITH HANDS FREE FILL VALVE, 1/2" STOP, 1-1/2" P-TRAP AND FLEX-GUARD SAFETY BUBBLER. (120V/60)	--	1/2"	1-1/2"	1-1/2"	--	--
(FD-1)	2" FLOOR DRAIN - ZURN Z-110 WITH 3" DIAMETER TYPE 'B' STRAINER AND 2" DEEP SEAL P-TRAP. PROVIDE WITH TRAP PRIMER CONNECTIONS.	--	1/2"	2"	2"	--	--
(FD-3)	4" FLOOR DRAIN - ZURN ZM723-Y HEAVY DUTY ADJUSTABLE FLOOR DRAIN WITH 3/8" STAINLESS STEEL CONSTRUCTION, SEDIMENT BUCKET AND 4" DEEP SEAL P-TRAP.	--	--	4"	2"	--	--
(FS-5)	FLOOR SINK WITH 3/4" GRATE - ZURN Z-1900-3 WITH WHITE ENAMEL FINISH, DOME STRAINER, 3/4" GRATE, AND 4" DEEP SEAL P-TRAP.	--	--	4"	2"	--	--
(HB-1)	EXTERIOR HOSE BIBB - ZURN Z-1310 "ECOLOTROL" WITH REMOVABLE KEY, VACUUM BREAKER, AND AUTOMATIC DRAIN. LENGTH TO SUIT WALL THICKNESS.	--	3/4"	--	--	--	--
(HB-2)	RECESSED INTERIOR HOSE BIBB - PRIER MODEL C25NP-SI WITH ANTI-SIPHON ANGLED SILL FAUCET WITH HOSE THREADED VACUUM BREAKER AND METAL HANDLE. REFER TO DETAIL EP3.1 FOR TYPICAL INSTALLATION.	--	1/2"	--	--	--	--
(HB-3)	YARD HYDRANT - WOODFORD MODEL Y1, 1" FPT NON-FREEZE HYDRANT WITH 4" BURY DEPTH, 1-1/4" GALVANIZED STEEL PIPE, CAST IRON LEVER HANDLE WITH ADJUSTABLE LINK, AND 1/8" DIAMETER DRAIN HOLE.	--	1"	--	--	--	--
(L-1)	WALL MOUNTED LAVATORY - KOHLER K-2032 "GREENWICH" (SIZE 20x18) WITH K-1388 OFFSET OPEN GRID STRAINER, SLOAN 85F-86 OPTIMA AUTO FAUCET (BATTERY), WALL CARRIER, 1/2" STOPS AND 1-1/2" P-TRAP. PROVIDE INSULATING JACKET ON WATER AND WASTE PIPING.	1/2"	1/2"	1-1/2"	1-1/2"	--	--
(OF-1)	4" OVERFLOW DRAIN - JAY R. SMITH MODEL 1080 WITH RECEIVER, 2" HIGH WATER DAM, UNDER DECK CLAMP, GRAVEL STOP, DOME STRAINER AND 4" DRAIN LINE CONNECTION.	--	--	4"	--	--	--
(RD-1)	4" ROOF DRAIN - JAY R. SMITH MODEL 1010 WITH RECEIVER, UNDER DECK CLAMP, GRAVEL STOP, DOME STRAINER, AND 4" DRAIN LINE CONNECTION.	--	--	4"	--	--	--

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