

PLUMBING PIPING LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	FIRE DEPARTMENT VALVE AT RISER		SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
	FIRE HYDRANT		SANITARY OR WASTE PIPING BELOW GRADE (SAN)
	FIRE DEPARTMENT CONNECTION		GREASE WASTE PIPING (GW)
	PRESSURE REDUCING VALVE (PRV)		GREASE WASTE PIPING BELOW GRADE (GW)
	BRANCH CONNECTION OUT OF TOP		STORM DRAIN PIPING (SD)
	BRANCH CONNECTION OUT OF BOTTOM		STORM DRAIN PIPING BELOW GRADE (GW)
	BRANCH CONNECTION OUT OF SIDE		SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
	WYE & 1/8TH BEND BRANCH CONNECTION		ACID WASTE PIPING (AW)
	WYE BRANCH CONNECTION		ACID WASTE PIPING BELOW GRADE (AW)
	HOSE BIBB		PUMPED DISCHARGE (PD)
	PRESSURE GAUGE WITH COCK		CONDENSATE DRAIN PIPING (CD)
	THERMOMETER		CONDENSATE - INDIRECT DRAIN PIPING (D)
	GAS PRESSURE REGULATOR		VENT PIPING (V)
	TEST COCK		COLD WATER PIPING (CW)
	GAS METER		HOT WATER PIPING (HW)
	WALL HYDRANT		HOT WATER RETURN PIPING (HWR)
	VALVE IN RISE		SOFT COLD WATER PIPING (SCW)
	ASME TEMPERATURE & PRESSURE RELIEF VALVE		CHILLED DRINKING WATER PIPING (CDW)
	VACUUM RELIEF VALVE		TRAP PRIMER LINE (TP)
	ANGLE VALVE		FIRE PROTECTION PIPING (F)
	OS&Y VALVE		AUTOMATIC SPRINKLER PIPING (AS)
	ROOF DRAIN		NATURAL GAS PIPING (G)
	REFER TO KEYED NOTE		GAS VENT PIPING (GV)
	FLOW SWITCH		COMPRESSED AIR PIPING (A)
	FLOOR SINK (FS)		FLOW DIRECTIONAL ARROW
	FLOOR DRAIN (FD)		CIRCUIT SETTER
	FLOOR DRAIN WITH P-TRAP (FD)		NEW TO EXISTING PIPE CONNECTION
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)		PIPE CONNECTION
	HUB DRAIN (HD)		HAMMER ARRESTOR (PISTON TYPE)
	WATER METER SYMBOL		SHUT-OFF VALVE
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER		BALANCING VALVE (BV)
	ACCESS PANEL LOCATION SYMBOL		SOLENOID VALVE (SV)
	AIR CHAMBER		BALL VALVE (BV)
	NEW CONNECTION		BUTTERFLY VALVE
	INVERT ELEVATION		LUBRICATED PACKED PLUG STOP COCK (PC)
	DELTA CHANGE SYMBOL		HORIZONTAL SWING CHECK
			UNION
			HORIZONTAL SWING CHECK
			REDUCER OR INCREASER
			ECCENTRIC REDUCER
			REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
			PIPING DOWN
			RISE OR DROP PIPING
			PIPING UP -OR- PIPING UP & DOWN
			CAP ON END OF PIPE
			CLEANOUT (WALL OR CEILING) (CO)
			FLOOR CLEANOUT (FCO)
			EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
			TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)

PLUMBING ABBREVIATIONS			
AG	ABOVE GRADE	MECH	MECHANICAL
ADD	ADDENDUM	MIN	MINIMUM
ADDL	ADDITIONAL	MS	MOP SINK
ADJ	ADJUSTABLE	(N)	NEW
AFF	ABOVE FINISHED FLOOR	NG	NATURAL GAS
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
ALT	ALTERNATE	NPWC	NON POTABLE COLD WATER
BFF	BELOW FINISHED FLOOR	ORD	OVERFLOW ROOF DRAIN
BG	BELOW GRADE	OSD	OVERFLOW STORM DRAIN
CO	CLEANOUT	PC	PLUMBING CONTRACTOR
COL	COLUMN	PH	PEDESTAL HYDRANT
CW	COLD WATER	PLBG	PLUMBING
DN	DOWN	PRES	PRESSURE
DW	DISHWASHER	QTY	QUANTITY
(E)	EXISTING	RD	ROOF DRAIN
EC	ELECTRICAL CONTRACTOR	RTU	ROOFTOP UNIT
ECO	EXTERIOR CLEANOUT	S	SINK
EQ	EQUAL	SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
FCO	FLOOR CLEANOUT	SD	STORM DRAIN
FD	FLOOR DRAIN	SPEC	SPECIFICATIONS
FLR	FLOOR	SS	STAINLESS STEEL
FT	FOOT (FEET)	TEMP	TEMPERATURE
F	FURNACE	TG	TRAP GUARD
FRH	FREEZELESS ROOF HYDRANT	TMV	THERMOSTATIC MIXING VALVE
FWH	FREEZELESS WALL HYDRANT	TYP	TYPICAL
GAL	GALLON	UR	URINAL
GC	GENERAL CONTRACTOR	V	VENT
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GW	GREASE WASTE	W	WITH
HW	HOT WATER	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN	WC	WATER CLOSET
L	LAVATORY	WYH	WATER YARD HYDRANT
MC	MECHANICAL CONTRACTOR		

GENERAL PLUMBING NOTES	
1.	THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2.	ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
3.	VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
4.	VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
5.	CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
6.	CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
7.	CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
8.	ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
9.	CHANGES IN THE DIRECTION OF SANITARY DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E. USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
10.	CONTRACTOR SHALL GIVE 48 HOURS HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
11.	ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
12.	ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
13.	SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON CIVIL DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES. (INC. CLEAN OUTS, INCREASES, BACKWATER VALVES, ETC.)
14.	COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBS. HEIGHT OF INSTALLATION SHALL BE DETERMINED IN FIELD.
15.	CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
16.	ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
17.	CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
18.	CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
19.	DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
20.	ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
21.	COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
22.	ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
23.	VERIFY WITH ARCHITECT ON ALL EQUIPMENT AND FIXTURES REQUIRING PLUMBING PRIOR TO BID. COORDINATE EXACT LOCATIONS AND CONNECTIONS.
24.	ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
25.	CONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENSES, ETC. NECESSARY FOR PROPER COMPLETION OF WORK.
26.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
27.	PROVIDE TRAP GUARDS ON ALL FLOOR DRAINS, FLOOR SINKS AND OPEN SITES.
28.	PROVIDE RIGID CONNECTION BETWEEN ALL SENSOR VALVES AND SENSOR LOCATION.
29.	MOUNT ALL FIXTURE SENSORS PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING SHEET INDEX	
P000	PLUMBING TITLE SHEET
P001	PLUMBING SITE PLAN
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P111	PLUMBING PLAN - ABOVE GRADE - SECOND FLOOR
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P302	PLUMBING ISOMETRIC - DOMESTIC WATER
P501	PLUMBING DETAILS
P502	PLUMBING DETAILS
P601	PLUMBING SCHEDULES



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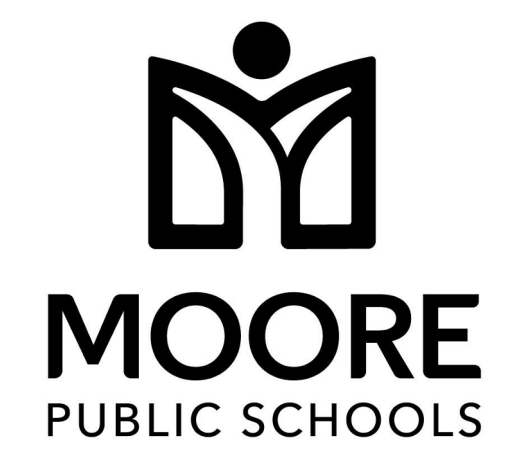
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sheet no:

P000

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA# 7088 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

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GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
4. COORDINATE ALL BELOW GRADE NATURAL GAS PIPE ROUTING WITH EXISTING SITE CONDITIONS.
5. COORDINATE NEW LOCATION OF GAS METER WITH GAS COMPANY AND SITE CONTRACTOR.

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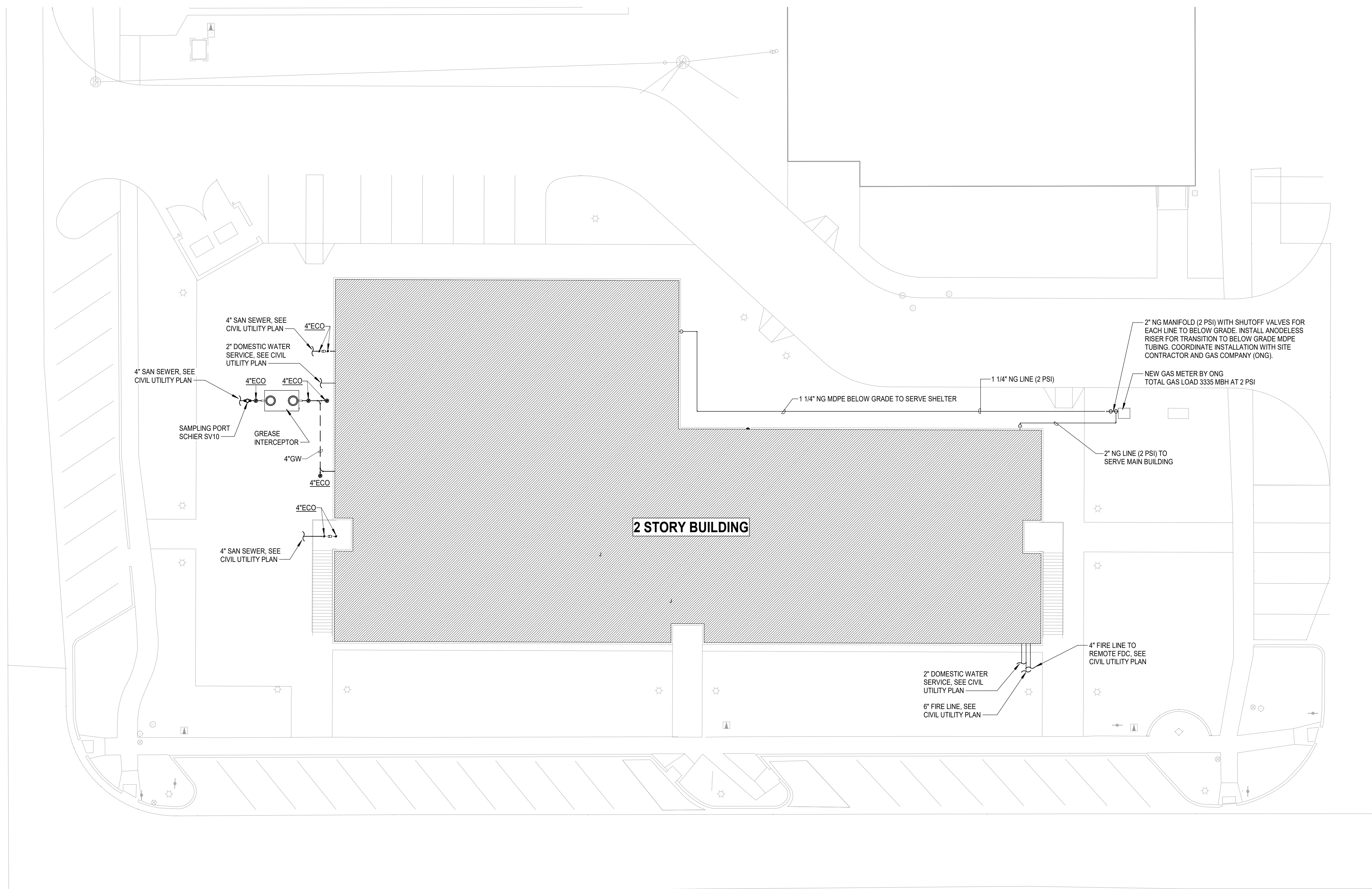
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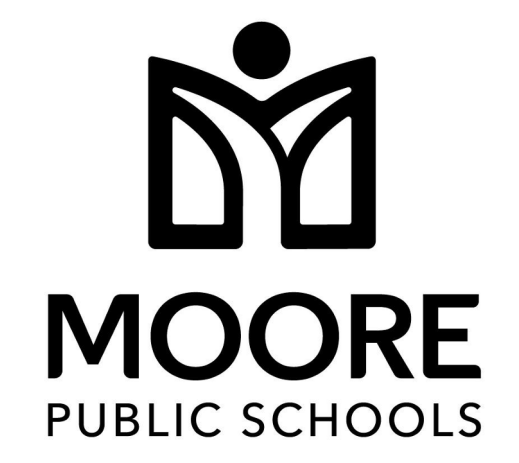
1 PLUMBING SITE PLAN
Scale: 1/16" = 1'-0"



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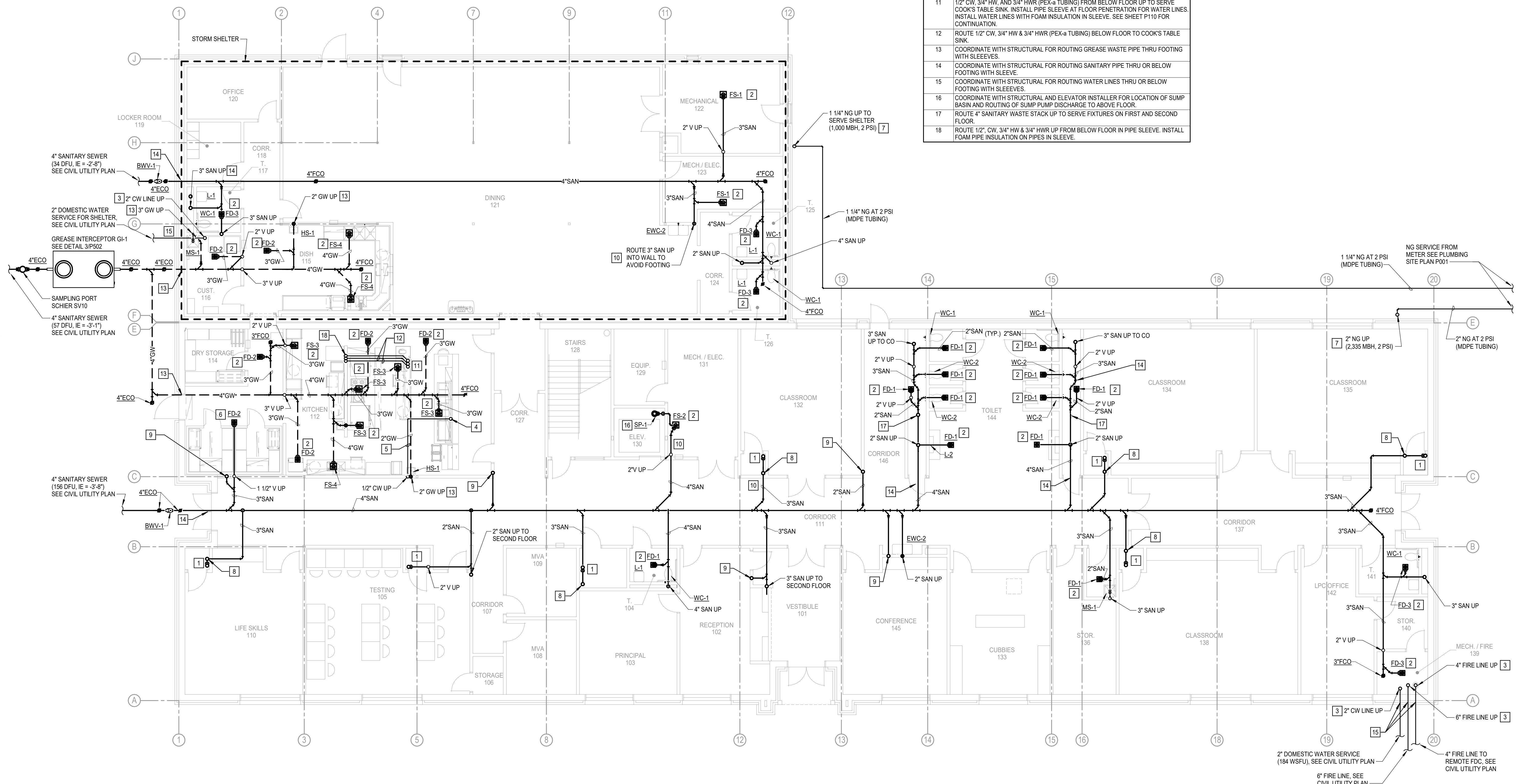
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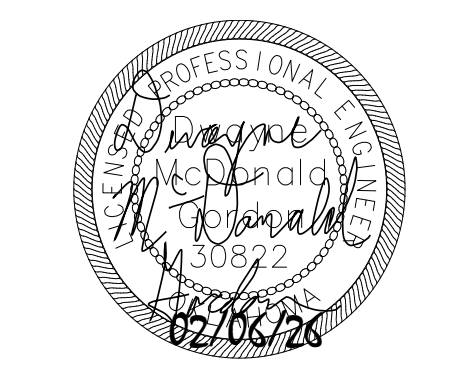
- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
 - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC ON SHEET P301 AND P302.
 - PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
 - PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATIONS.
 - INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
 - COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.

- ### KEYED NOTES
- ROUTE 2" SANITARY LINE UP TO HUB DRAIN ABOVE FLOOR.
 - INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAIN OR FLOOR SINK. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
 - PROVIDE PVC PIPE SLEEVE THRU CONCRETE FLOOR AND STUB UP 2' AFF FOR WATER LINE. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
 - ROUTE 1/2" CW (PEX-a TUBING) FROM BELOW FLOOR UP TO SERVING COUNTER FAUCET PROVIDED BY KEC. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINES WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
 - ROUTE 1/2" CW (PEX-a TUBING) BELOW FLOOR FROM HANDSINK TO SERVE COUNTER FAUCET. COORDINATE WITH STRUCTURAL FOR PIPE SLEEVE THRU FLOOR FOR CW LINE.
 - INSTALL FUNNEL FASTENED TO STRAINER FOR CONDENSATE DRAIN LINES FROM FREEZER AND COOLER. MINIMUM FUNNEL HEIGHT 3" AND TOP DIAMETER 4". PROVIDE TRAP PRIMER LINE TO FLOOR DRAIN.
 - PROVIDE ANODELESS GAS RISER FOR TRANSITION FROM BELOW GRADE MDPE TUBING TO ABOVE GRADE BLACK IRON PIPE. COORDINATE GAS PIPE INSTALLATION WITH SITE CONTRACTOR.
 - 3" WASTE STACK UP TO SERVE HUB DRAINS ON FIRST AND SECOND FLOOR.
 - 2" SANITARY UP TO SERVE HUB DRAIN ON SECOND FLOOR.
 - COORDINATE WITH STRUCTURAL FOR ROUTING OF SANITARY PIPE.
 - 1/2" CW, 3/4" HW, AND 3/4" HWR (PEX-a TUBING) FROM BELOW FLOOR UP TO SERVE COOK'S TABLE SINK. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSTALL WATER LINES WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
 - ROUTE 1/2" CW, 3/4" HW & 3/4" HWR (PEX-a TUBING) BELOW FLOOR TO COOK'S TABLE SINK.
 - COORDINATE WITH STRUCTURAL FOR ROUTING GREASE WASTE PIPE THRU FOOTING WITH SLEEVES.
 - COORDINATE WITH STRUCTURAL FOR ROUTING SANITARY PIPE THRU OR BELOW FOOTING WITH SLEEVE.
 - COORDINATE WITH STRUCTURAL FOR ROUTING WATER LINES THRU OR BELOW FOOTING WITH SLEEVES.
 - COORDINATE WITH STRUCTURAL AND ELEVATOR INSTALLER FOR LOCATION OF SUMP BASIN AND ROUTING OF SUMP PUMP DISCHARGE TO ABOVE FLOOR.
 - ROUTE 4" SANITARY WASTE STACK UP TO SERVE FIXTURES ON FIRST AND SECOND FLOOR.
 - ROUTE 1/2" CW, 3/4" HW & 3/4" HWR UP FROM BELOW FLOOR IN PIPE SLEEVE. INSTALL FOAM PIPE INSULATION ON PIPES IN SLEEVE.



1 PLUMBING PLAN - BELOW GRADE
Scale: 1/8" = 1'-0"

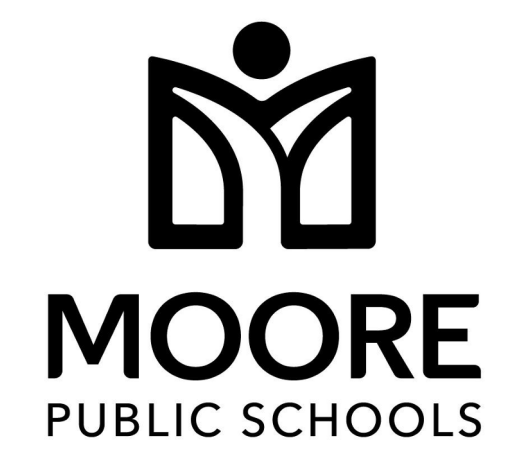
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GENERAL NOTES

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
- SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 & P302.
- PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS. INSTALLING CONTRACTOR TO COORDINATE EXACT LOCATION OF VALVES AND ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.
- ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
- TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-A TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
- COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.
- FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
- INSULATE ALL WATER PIPING ABOVE CEILING.
- CONTRACTOR SHALL COORDINATE ALL STORM SHELTER WALL AND ROOF PENETRATIONS WITH STRUCTURAL. REFER TO STRUCTURAL DETAIL SHEET FOR PENETRATION PROTECTION FOR RECTANGULAR OPENINGS GREATER THAN 3.5 SQUARE INCHES AND CIRCULAR OPENINGS GREATER THAN 2.125 INCHES PER 2014 ICC-500.

KEYED NOTES

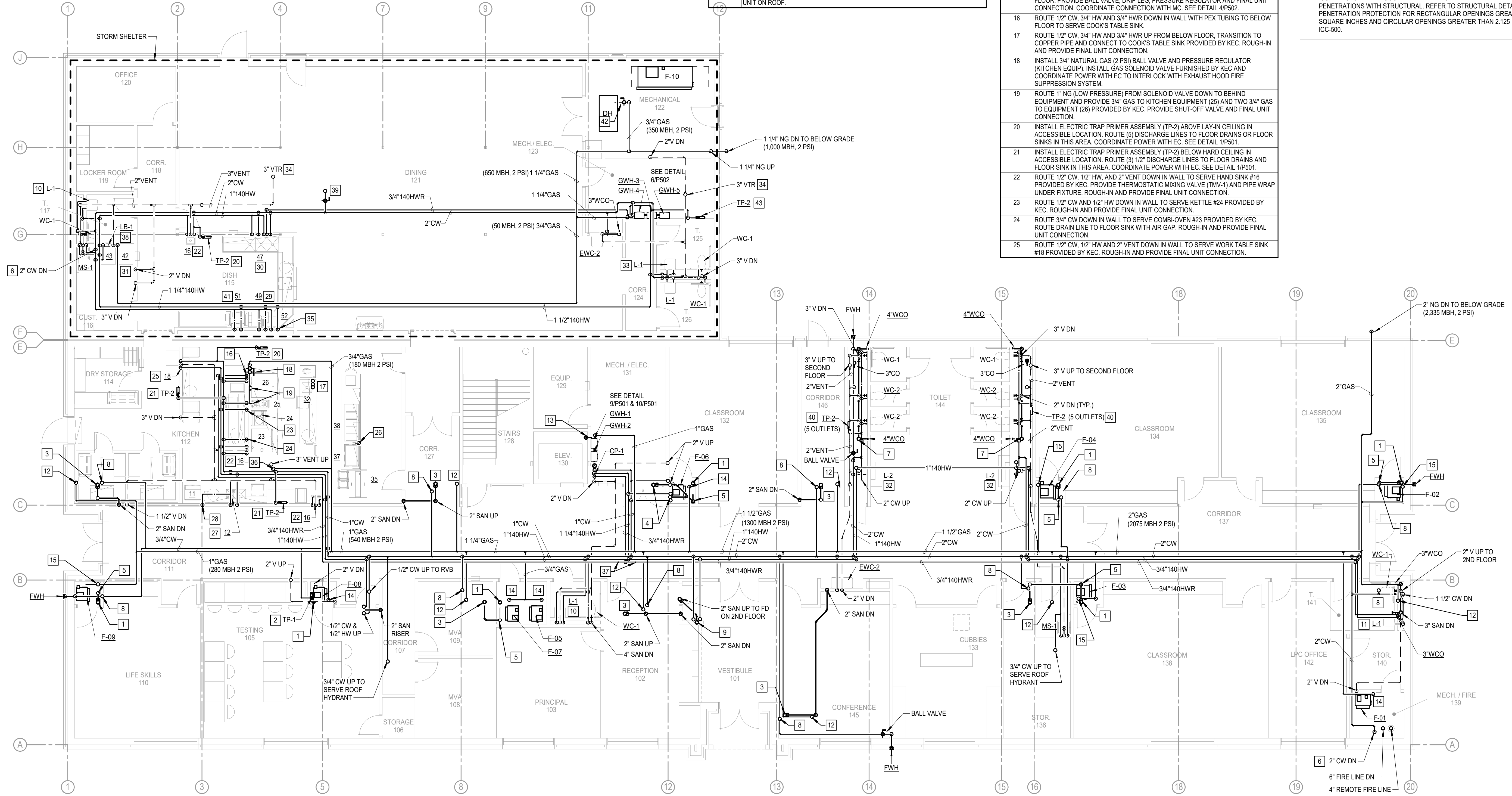
- ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL 8P501.
- PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. ROUTE 1/2" LINE FROM UNIT TO HUB DRAIN. COORDINATE POWER WITH EC. SEE DETAILS 1P501 AND 8P501.
- ROUTE 2" SANITARY UP TO SERVE HUB DRAIN ON SECOND FLOOR.
- ROUTE 3" SANITARY TO SERVE FIXTURES ON SECOND FLOOR.
- 3" SANITARY WASTE STACK UP TO SERVE FIXTURES ON FIRST AND SECOND FLOOR. INSTALL CLEANOUT IN ACCESSIBLE LOCATION.
- ROUTE DOMESTIC WATER SERVICE DOWN WITH BALL VALVE AT 24" A.F.F. AND ROUTE DOWN TO BELOW FLOOR. SEE SHEET P101 FOR CONTINUATION.
- ROUTE 4" SANITARY WASTE STACK UP TO SERVE FIXTURES ON FIRST AND SECOND FLOOR.
- ROUTE 1/2" CW UP TO SERVE TRAP PRIMER ON SECOND FLOOR.
- 3" SANITARY, 1 1/2" CW AND 1/2" HW UP TO SERVE FIXTURES ON SECOND FLOOR.
- 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN IN CHASE TO SERVE LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 6P501.
- 1/2" CW, 3/4" HW AND 1 1/2" VENT DOWN IN CHASE TO SERVE LAVATORY. CONNECT 1/2" HW WITHIN 2'-0" OF HOT WATER SUPPLY STOP. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 1P502.
- ROUTE 1/2" NATURAL GAS (2 PSI) UP TO FURNACE ON SECOND FLOOR.
- ROUTE ELEVATOR SUMP PUMP 2" DISCHARGE ABOVE FLOOR AND OVER FLOOR SINK WITH AIR GAP. SEE DETAIL 2P502.
- ROUTE 1/2" NATURAL GAS (2 PSI) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR, AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 4P502.
- ROUTE 3/4" NATURAL GAS (2 PSI) INTO CLOSET WITH 1/2" NG UP TO FURNACE ON SECOND FLOOR. PROVIDE 1/2" NATURAL GAS (2 PSI) LINE TO FURNACE ON FIRST FLOOR. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 4P502.
- ROUTE 1/2" CW, 3/4" HW AND 3/4" HW DOWN IN WALL WITH PEX TUBING TO BELOW FLOOR TO SERVE COOK'S TABLE SINK.
- ROUTE 1/2" CW, 3/4" HW AND 3/4" HW UP FROM BELOW FLOOR. TRANSITION TO COPPER PIPE AND CONNECT TO COOK'S TABLE SINK PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- INSTALL 3/4" NATURAL GAS (2 PSI) BALL VALVE AND PRESSURE REGULATOR (KITCHEN EQUIP). INSTALL GAS SOLENOID VALVE FURNISHED BY KEC AND COORDINATE POWER WITH EC TO INTERLOCK WITH EXHAUST HOOD FIRE SUPPRESSION SYSTEM.
- ROUTE 1" NG (LOW PRESSURE) FROM SOLENOID VALVE DOWN TO BEHIND EQUIPMENT AND PROVIDE 3/4" GAS TO KITCHEN EQUIPMENT (25) AND TWO 3/4" GAS TO EQUIPMENT (26) PROVIDED BY KEC. PROVIDE SHUT-OFF VALVE AND FINAL UNIT CONNECTION.
- INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-2) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (5) DISCHARGE LINES TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1P501.
- INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-2) BELOW HARD CEILING IN ACCESSIBLE LOCATION. ROUTE (3) 1/2" DISCHARGE LINES TO FLOOR DRAINS AND FLOOR SINK IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1P501.
- ROUTE 1/2" CW, 1/2" HW, AND 2" VENT DOWN IN WALL TO SERVE HAND SINK #16 PROVIDED BY KEC. PROVIDE THERMOSTATIC MIXING VALVE (TMV-1) AND PIPE WRAP UNDER FIXTURE. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO SERVE KETTLE #24 PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- ROUTE 3/4" CW DOWN IN WALL TO SERVE COMBI-OVEN #23 PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- ROUTE 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE WORK TABLE SINK #18 PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

KEYED NOTES

- CONNECT 1/2" CW TO FAUCET AT SERVING #38 COUNTER COLD WELL PROVIDED BY KEC. ROUTE 1/2" CW LINE DOWN WITH TRANSITION TO PEX TUBING TO BELOW FLOOR. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO SERVE PREP SINK #12 PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- ROUTE 3/4" CW DOWN IN WALL TO SERVE WATER FILTER AND ICE MAKER #11 PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. ROUTE DRAIN LINE TO FLOOR SINK.
- 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE FAUCET AND HOSE REEL #49 PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE 2 FAUCETS AT #47 3-COMP SINK PROVIDED BY KEC. ROUTE DRAIN LINES TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
- INSTALL 1/2" BALL VALVE AND PRESSURE REGULATOR IN NATURAL GAS LINE SUPPLYING DRYER #42. PROVIDE 1/2" LOW PRESSURE GAS DOWN IN WALL TO GAS VALVE BOX (GVB-1) AND FLEXIBLE CONNECTION TO UNIT.
- PROVIDE 1/2" CW BRANCH LINE IN CHASE TO SERVE LAVATORY. ROUTE 1" HW DOWN IN CHASE AND BACK UP TO CEILING. CONNECT 1/2" HW TO LAVATORY ON FIRST AND SECOND FLOOR. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 6P501.
- ROUTE 2" CW AND 1/2" HW INTO CHASE WITH 1/2" CW AND 1/2" HW TO EACH LAVATORY. EXTEND 2" CW TO SERVE WATER CLOSETS. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW LAVATORIES.
- COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT PLUMBING VENT PENETRATION OF STORM SHELTER ROOF.
- ROUTE 3/4" CW AND 3/4" HW DOWN IN WALL TO BELOW COUNTERTOP STUB OUT AND CONNECT TO MIXING VALVE PROVIDED BY KEC FOR WATER TROUGH #52.
- ROUTE 3/4" NATURAL GAS (2 PSI) UP INTO CHASE ON 2ND FLOOR TO SERVE DOAS UNIT ON ROOF.

KEYED NOTES

- INSTALL THERMOSTATIC BALANCING VALVE WITH BALL VALVES, CHECK VALVE AND TEMP GAUGE IN 3/4" HW PIPING ABOVE ACCESSIBLE CEILING. CALEFFI MODEL 116451AC106 OR EQUAL.
- CLOTHES WASHER FURNISHED BY OTHERS. ROUGH-IN AND MAKE FINAL CONNECTION. PROVIDE 1/2" CW AND HW LINES DOWN IN WALL TO LAUNDRY BOX. CONNECT FLEXIBLE SUPPLY LINES TO WASHER. ROUTE WASHER DRAIN LINE INTO WALL BOX DRAIN FITTING AND SECURE. COORDINATE WITH EQUIPMENT SUPPLIER.
- 3/4" CW UP TO ROOF HYDRANT. SEE SHEET P201 FOR CONTINUATION. COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT PENETRATION OF STORM SHELTER ROOF.
- PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-2) IN ACCESSIBLE LOCATION IN CHASE. ROUTE 1/2" LINES FROM UNIT TO FLOOR DRAINS IN THIS AREA (5 FLOOR DRAINS TOTAL). COORDINATE POWER WITH EC. SEE DETAIL 1P501.
- PROVIDE 1/2" CW AND 1/2" HW WITH BALL VALVE IN ACCESSIBLE EXPOSED LOCATION BELOW CEILING TO DISHWASHER #51. PROVIDE PRESSURE VACUUM BREAKER ON HW LINE TO UNIT. ROUTE DRAIN LINE TO FLOOR SINK. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH KEC.
- ROUTE 3/4" NG (2 PSI) TO DUCT HEATER. INSTALL BALL VALVE, DIRT LEG, PRESSURE REGULATOR, UNION AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC.
- PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-2) IN ACCESSIBLE LOCATION ON MECHANICAL ROOM WALL. ROUTE 1/2" LINES FROM UNIT TO FLOOR DRAINS AND FLOOR SINKS IN THIS AREA (4 DRAINS TOTAL). COORDINATE POWER WITH EC. SEE DETAIL 1P501.



1 PLUMBING PLAN - ABOVE GRADE - FIRST FLOOR
Scale: 1/8" = 1'-0"

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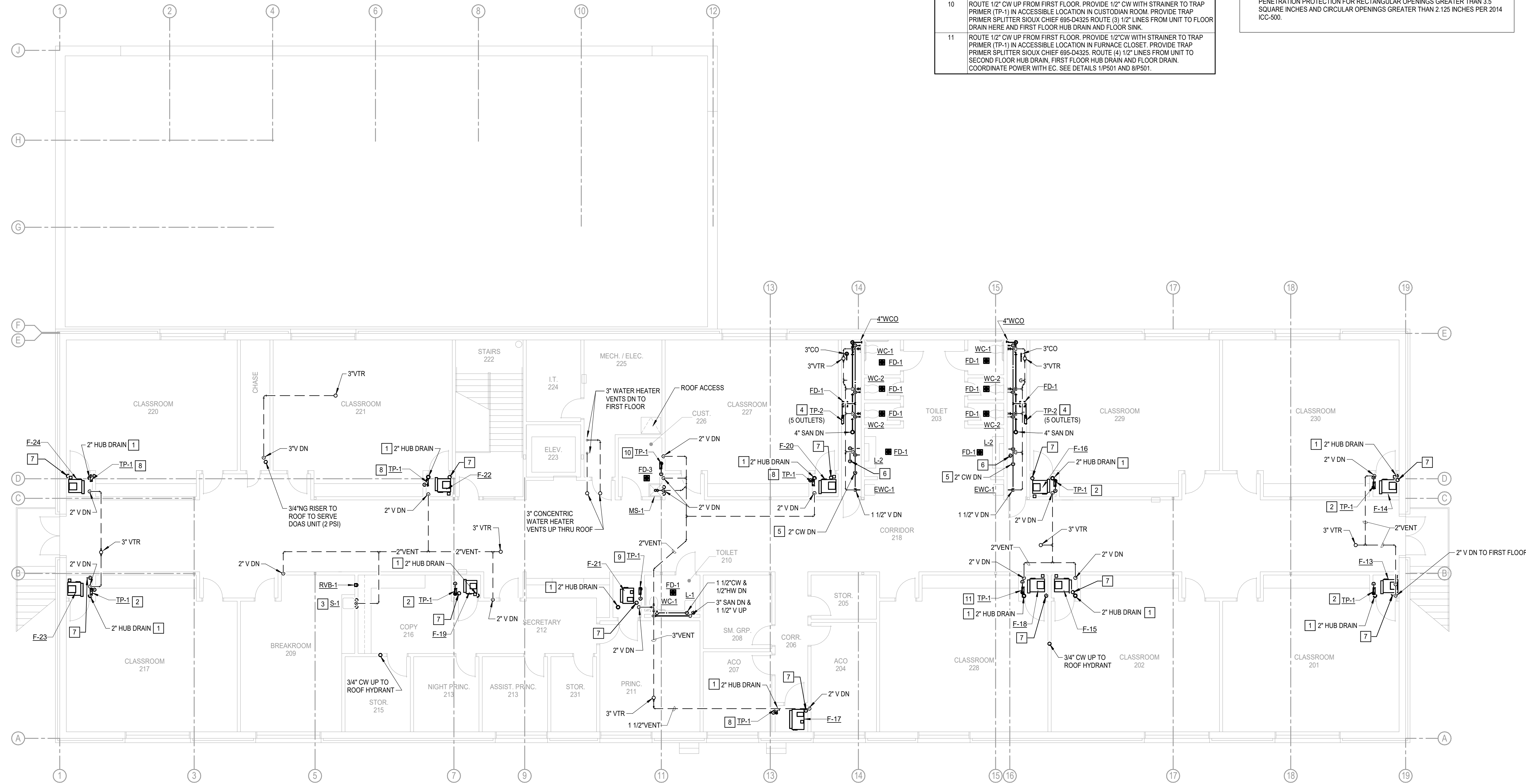
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GENERAL NOTES

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
- SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 AND P302.
- PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS. INSTALLING CONTRACTOR TO COORDINATE EXACT LOCATION OF VALVES AND ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.
- ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
- TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
- FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
- INSULATE ALL WATER PIPING ABOVE CEILING.
- CONTRACTOR SHALL COORDINATE ALL STORM SHELTER WALL AND ROOF PENETRATIONS WITH STRUCTURAL. REFER TO STRUCTURAL DETAIL SHEET FOR PENETRATION PROTECTION FOR RECTANGULAR OPENINGS GREATER THAN 3.5 SQUARE INCHES AND CIRCULAR OPENINGS GREATER THAN 2.125 INCHES PER 2014 ICC-500.

KEYED NOTES

- ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL 8P501.
- ROUTE 1/2" CW UP FROM FIRST FLOOR. PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. PROVIDE TRAP PRIMER SPLITTER SIOUX CHIEF 695-D4325 ROUTE (2) 1/2" LINES FROM UNIT TO HUB DRAINS HERE AND BELOW ON FIRST FLOOR. COORDINATE POWER WITH EC. SEE DETAILS 1P501 AND 8P501.
- 1/2" CW, 1/2" HW AND 2" SANITARY UP FROM FIRST FLOOR IN WALL TO SERVE SINK. ROUTE 1 1/2" VENT DOWN IN WALL AND CONNECT TO SINK. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 7P501.
- PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-2) IN ACCESSIBLE LOCATION IN CHASE. ROUTE 1/2" LINES FROM UNIT TO FLOOR DRAINS IN THIS AREA (5 FLOOR DRAINS TOTAL). COORDINATE POWER WITH EC. SEE DETAIL 1P501.
- ROUTE 2" CW DOWN IN CHASE TO FIRST FLOOR CEILING SPACE. PROVIDE 2" CW BRANCH LINE INTO CHASE ON SECOND FLOOR TO SERVE FIXTURES.
- ROUTE 1/2" HW FROM LAVATORY DOWN TO FIRST FLOOR HW MAIN IN CHASE. SEE SHEET P110 FOR CONTINUATION.
- ROUTE 1/2" NATURAL GAS (2 PSI) LINE UP FROM FIRST FLOOR TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR, AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 4P502.
- ROUTE 1/2" CW UP FROM FIRST FLOOR. PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. ROUTE 1/2" LINE FROM UNIT TO HUB DRAIN. COORDINATE POWER WITH EC. SEE DETAILS 1P501 AND 8P501.
- ROUTE 1/2" CW UP FROM FIRST FLOOR. PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. PROVIDE TRAP PRIMER SPLITTER SIOUX CHIEF 695-D4325 ROUTE (3) 1/2" LINES FROM UNIT TO HUB DRAIN HERE AND FLOOR DRAINS IN SECOND AND FIRST FLOOR RESTROOMS.
- ROUTE 1/2" CW UP FROM FIRST FLOOR. PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN CUSTODIAN ROOM. PROVIDE TRAP PRIMER SPLITTER SIOUX CHIEF 695-D4325 ROUTE (3) 1/2" LINES FROM UNIT TO FLOOR DRAIN HERE AND FIRST FLOOR HUB DRAIN AND FLOOR SINK.
- ROUTE 1/2" CW UP FROM FIRST FLOOR. PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. PROVIDE TRAP PRIMER SPLITTER SIOUX CHIEF 695-D4325. ROUTE (4) 1/2" LINES FROM UNIT TO SECOND FLOOR HUB DRAIN, FIRST FLOOR HUB DRAIN AND FLOOR DRAIN. COORDINATE POWER WITH EC. SEE DETAILS 1P501 AND 8P501.



1 PLUMBING PLAN - ABOVE GRADE - SECOND FLOOR
Scale: 1/8" = 1'-0"

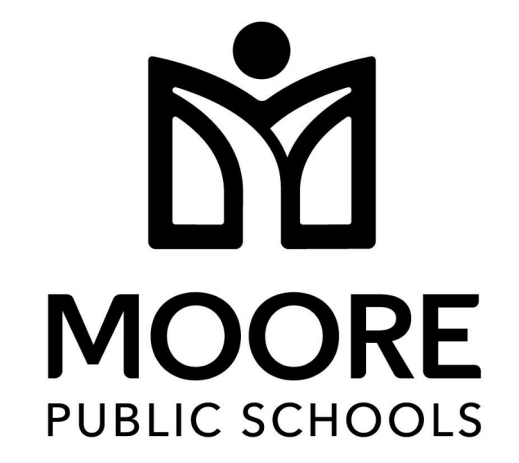
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Moore, OK 73160
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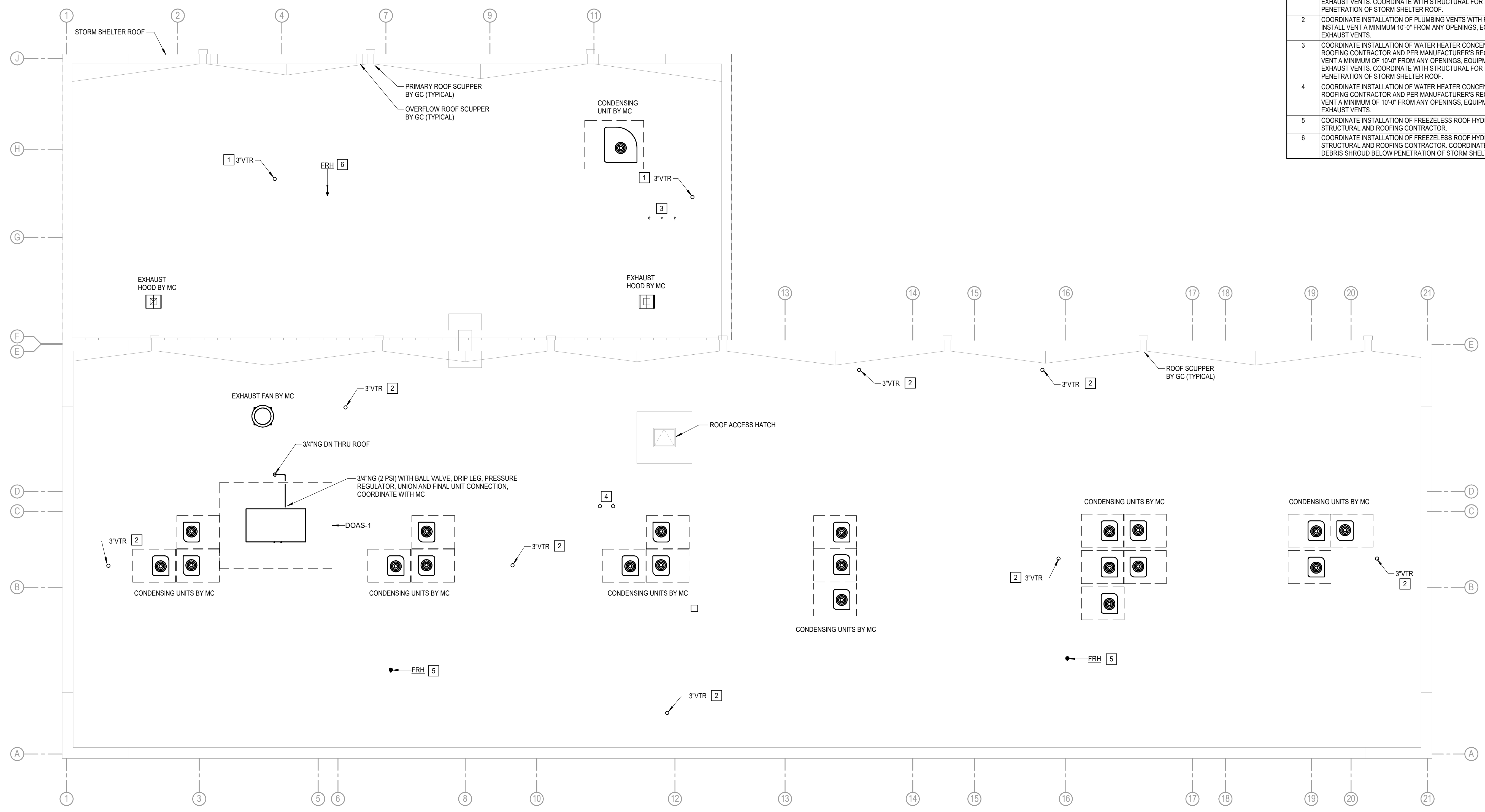
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GENERAL NOTES

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- MAINTAIN A MINIMUM OF 10'-0" CLEAR BETWEEN EXHAUST AND INTAKE VENTS WITH MECHANICAL EQUIPMENT AND OTHER ROOF OPENINGS.
- ALL EXTERIOR ABOVE GRADE NATURAL GAS PIPING SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED AND PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
- ALL GAS PIPING SHALL COMPLY WITH INTERNATIONAL FUEL GAS CODE AND LOCAL CODES. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
- GAS PIPE IDENTIFICATION SHALL BE THE WORDS "NATURAL GAS" IN BLACK LETTERS AT 5'-0" INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
- CONTRACTOR SHALL COORDINATE ALL STORM SHELTER WALL AND ROOF PENETRATIONS WITH STRUCTURAL. REFER TO STRUCTURAL DETAIL SHEET FOR PENETRATION PROTECTION FOR RECTANGULAR OPENINGS GREATER THAN 3.5 SQUARE INCHES AND CIRCULAR OPENINGS GREATER THAN 2.125 INCHES PER 2014 ICC-500.

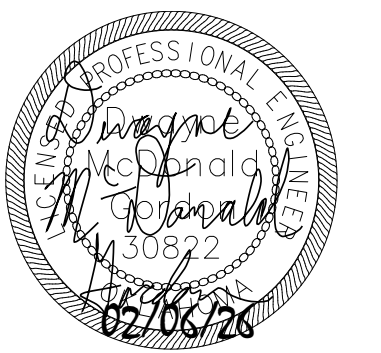
KEYED NOTES

- COORDINATE INSTALLATION OF PLUMBING VENTS WITH ROOFING CONTRACTOR. INSTALL A VENT A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES OR EXHAUST VENTS. COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD BELOW PENETRATION OF STORM SHELTER ROOF.
- COORDINATE INSTALLATION OF PLUMBING VENTS WITH ROOFING CONTRACTOR. INSTALL A VENT A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES OR EXHAUST VENTS.
- COORDINATE INSTALLATION OF WATER HEATER CONCENTRIC VENT WITH ROOFING CONTRACTOR AND PER MANUFACTURER'S RECOMMENDATIONS. INSTALL VENT A MINIMUM OF 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES AND EXHAUST VENTS. COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD BELOW PENETRATION OF STORM SHELTER ROOF.
- COORDINATE INSTALLATION OF WATER HEATER CONCENTRIC VENT WITH ROOFING CONTRACTOR AND PER MANUFACTURER'S RECOMMENDATIONS. INSTALL VENT A MINIMUM OF 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES AND EXHAUST VENTS.
- COORDINATE INSTALLATION OF FREEZELESS ROOF HYDRANT (FRH) WITH STRUCTURAL AND ROOFING CONTRACTOR.
- COORDINATE INSTALLATION OF FREEZELESS ROOF HYDRANT (FRH) WITH STRUCTURAL AND ROOFING CONTRACTOR. COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD BELOW PENETRATION OF STORM SHELTER ROOF.



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

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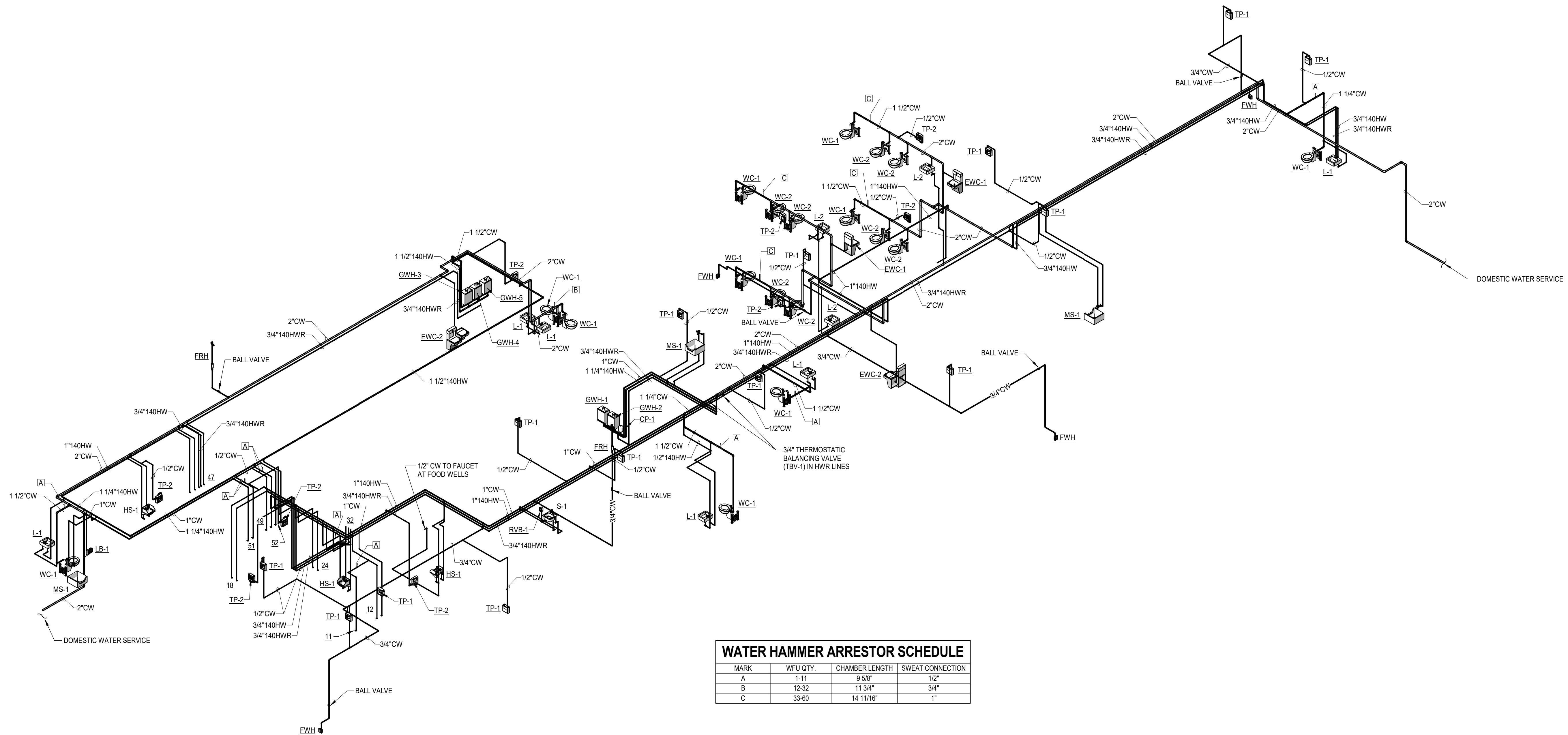


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1 PLUMBING ISOMETRIC - DOMESTIC WATER

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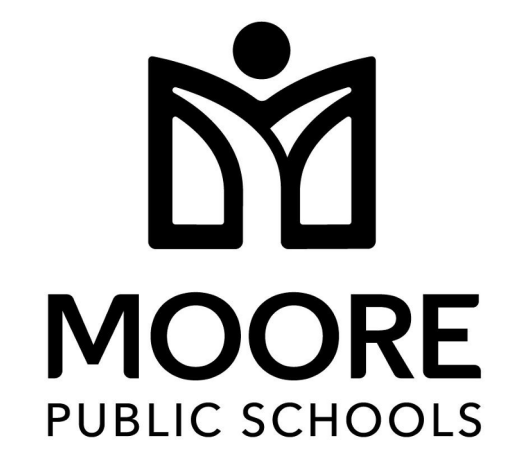
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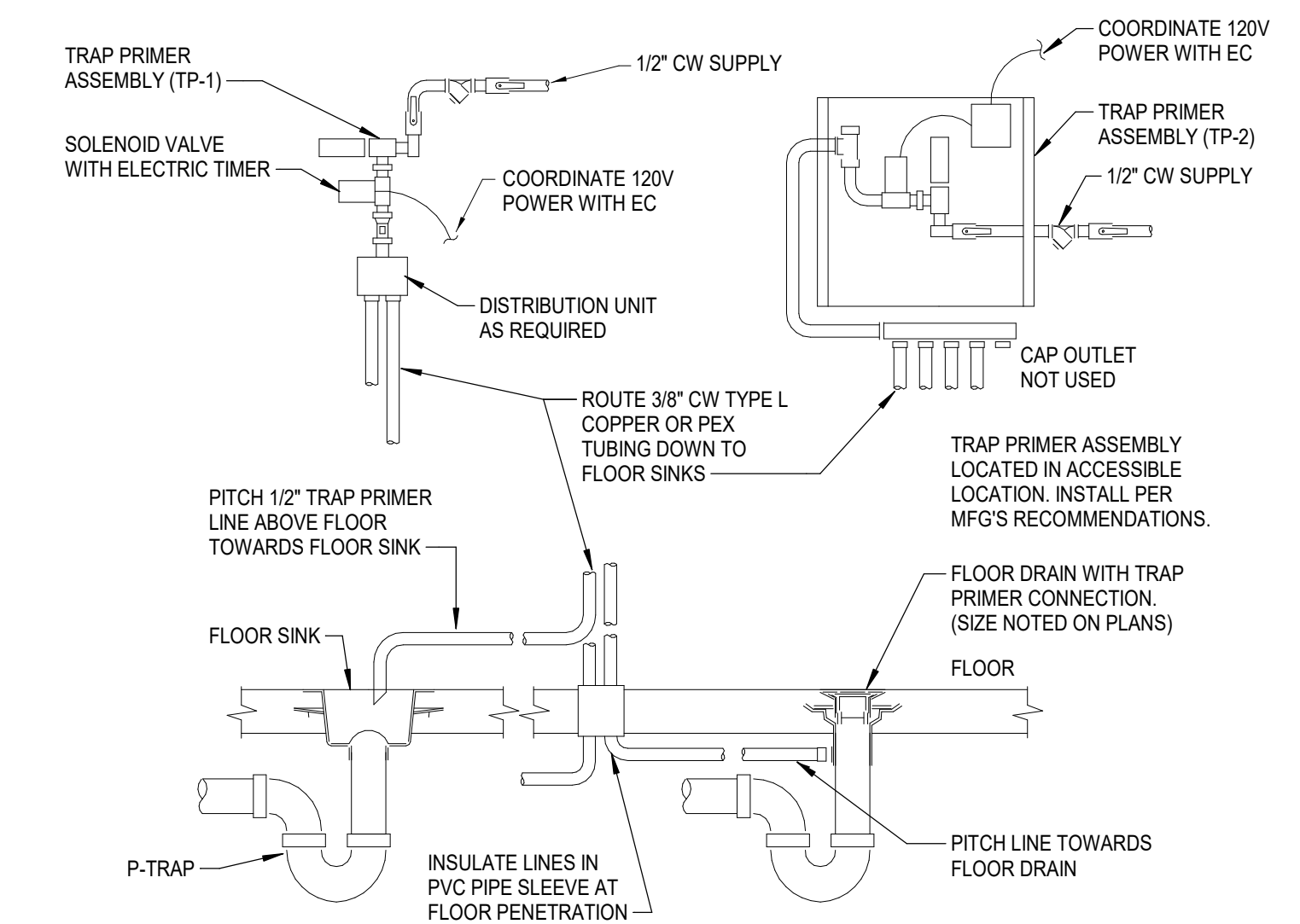
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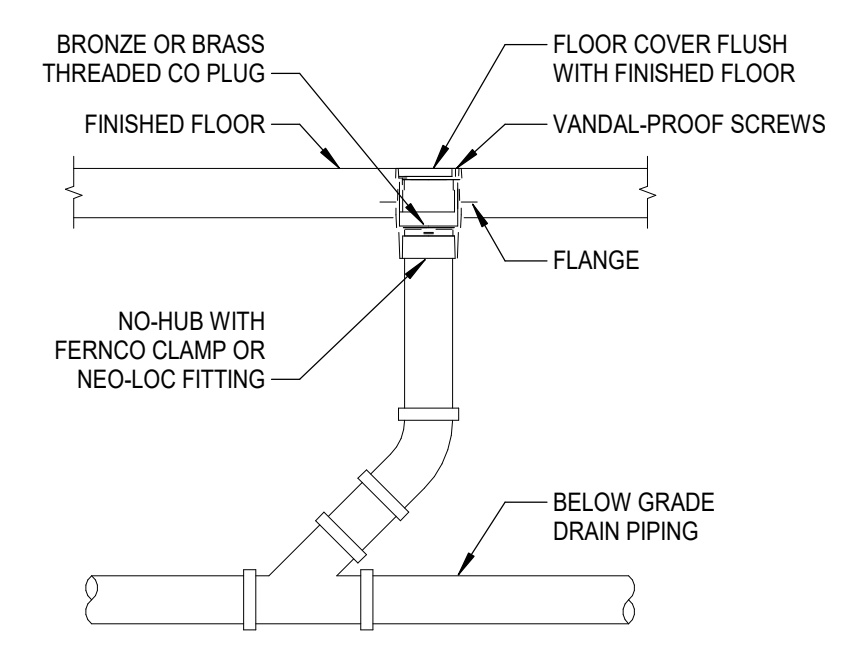
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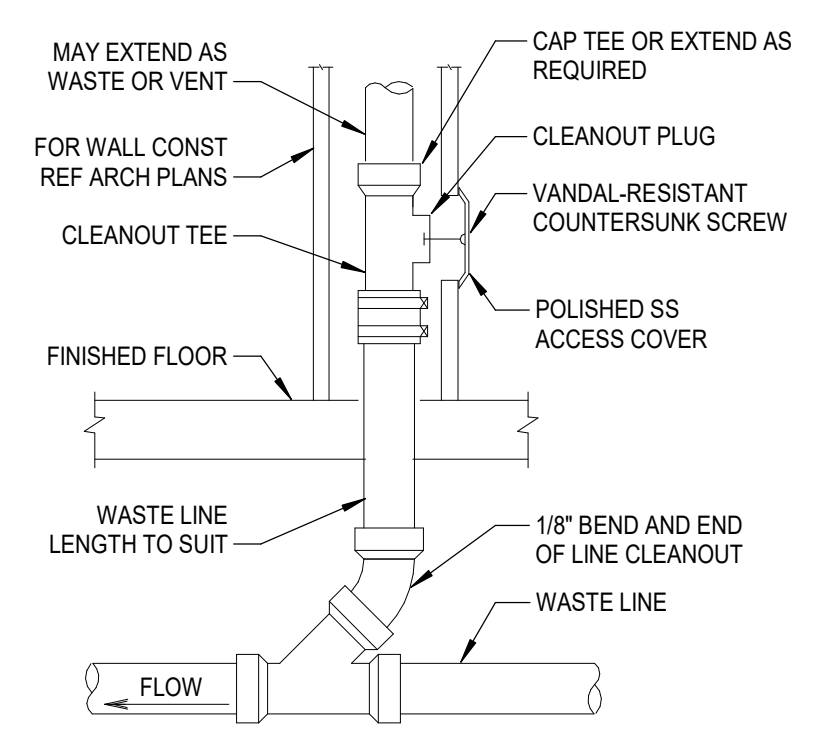
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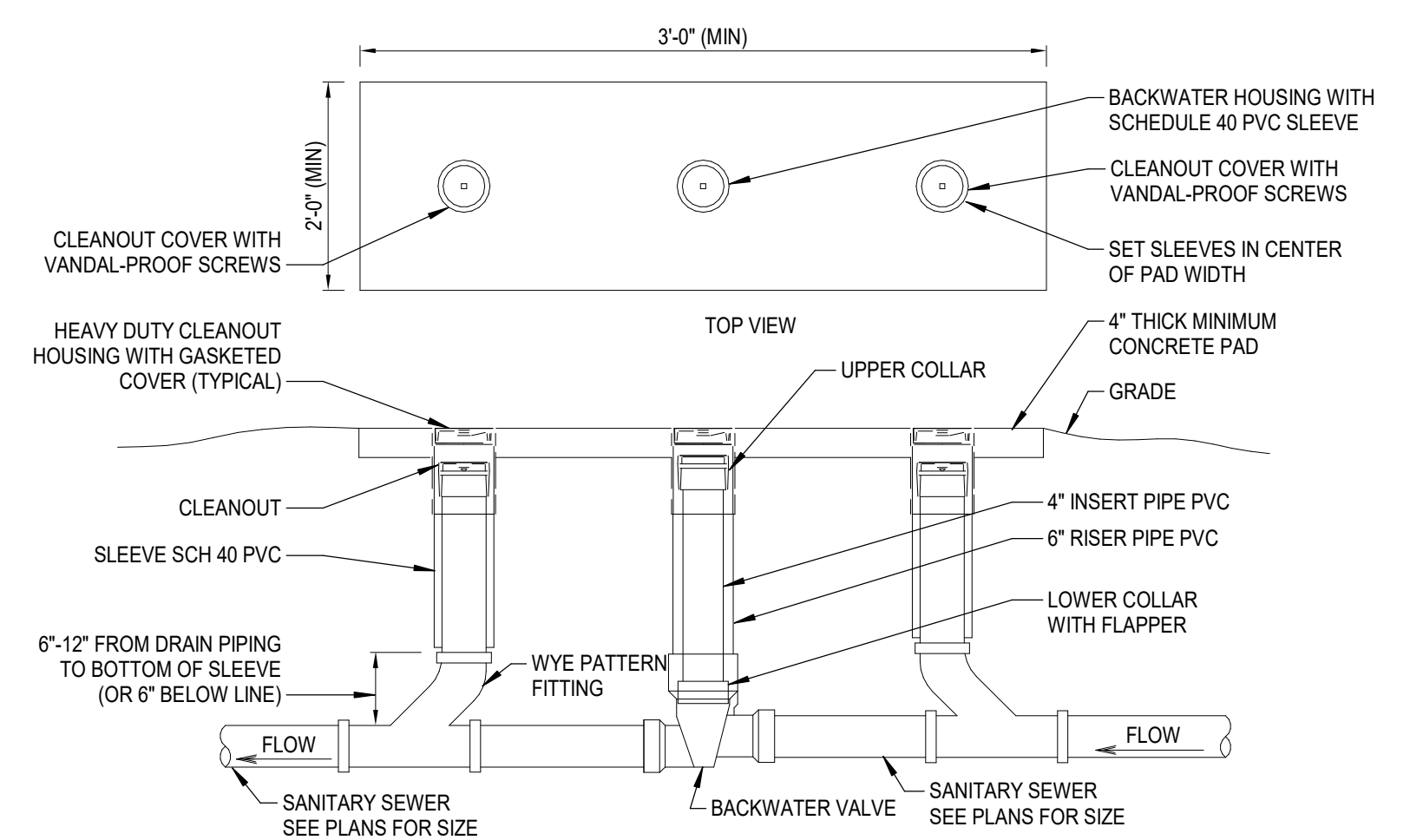
1 ELECTRIC TRAP PRIMER MANIFOLD DETAIL
Scale: N.T.S.



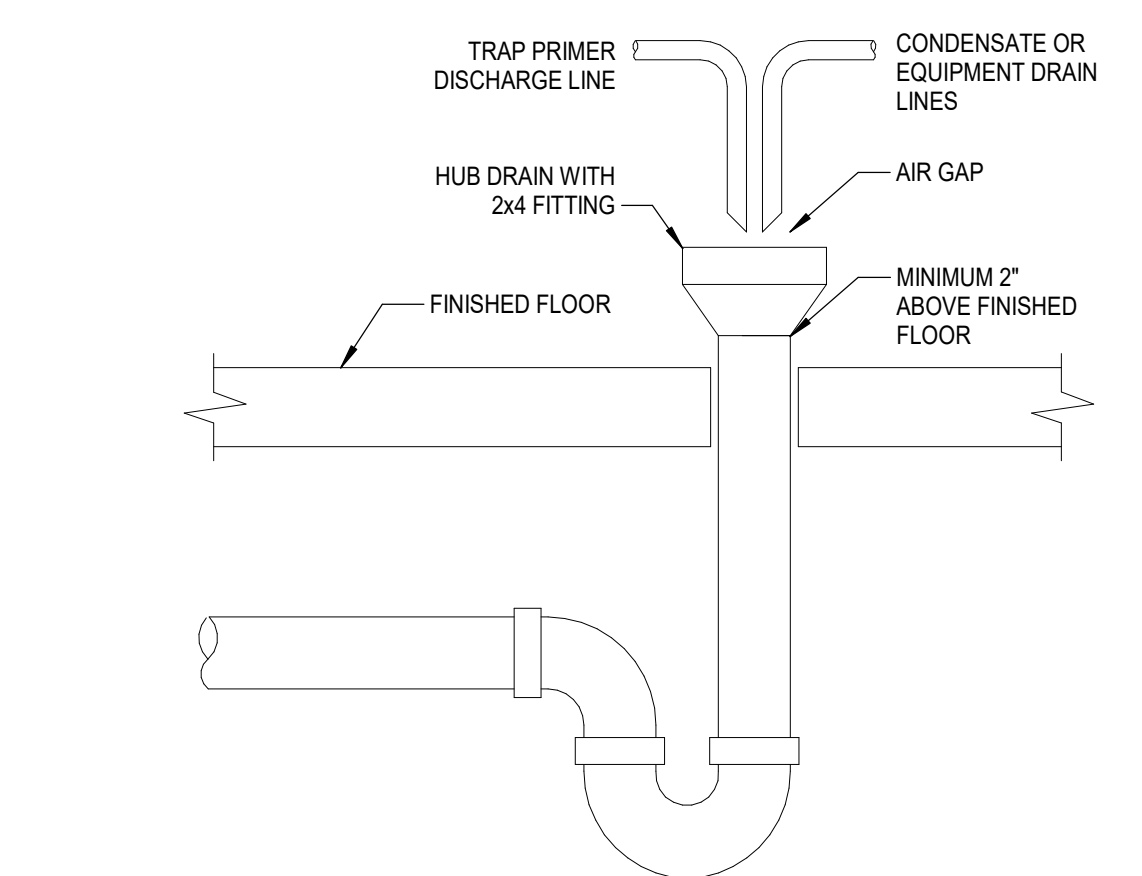
2 INTERIOR CLEANOUT DETAIL
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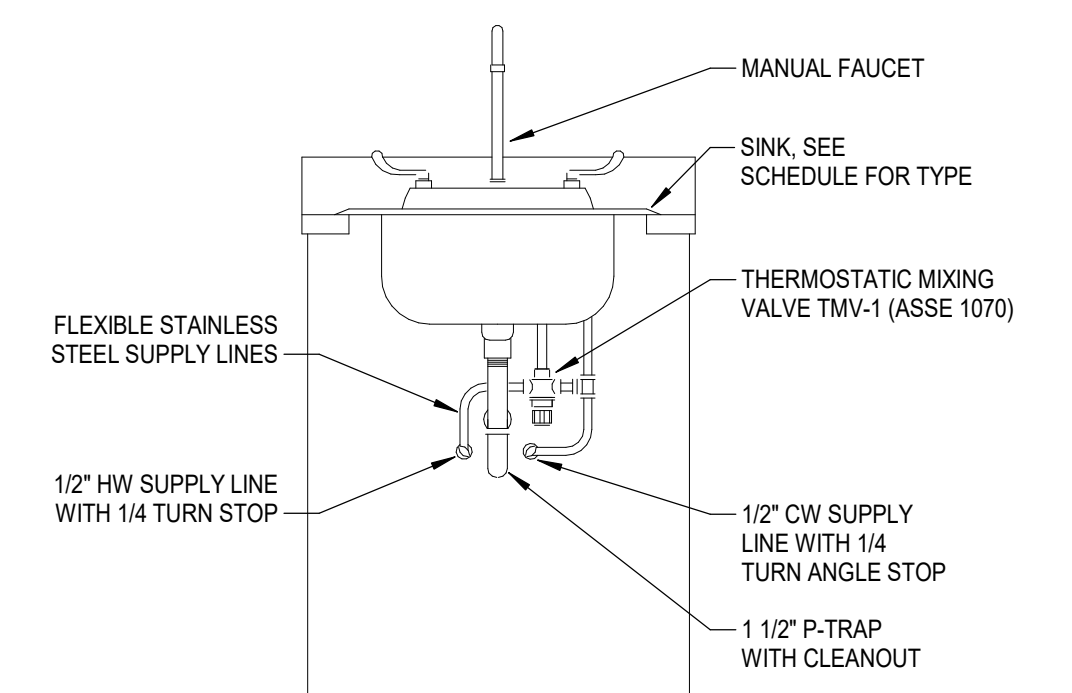
3 WALL CLEANOUT DETAIL
Scale: N.T.S.



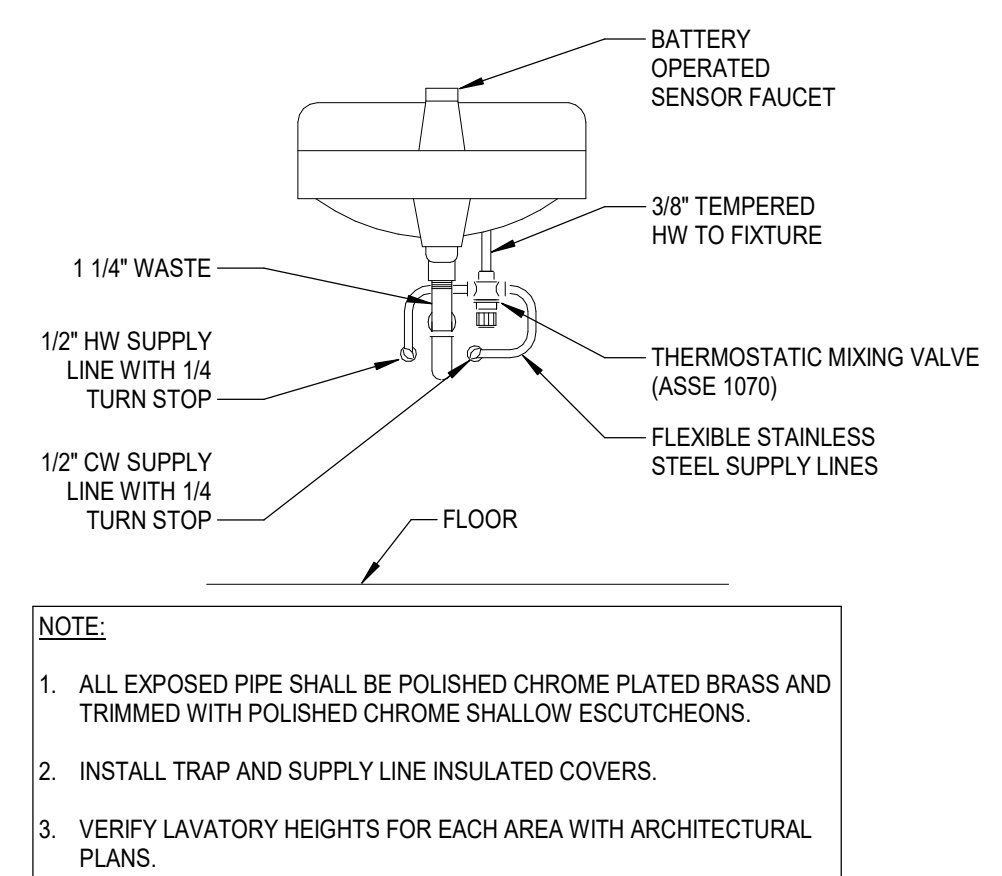
4 BACKWATER VALVE & EXTERIOR CLEANOUT DETAIL
Scale: N.T.S.



8 HUB DRAIN DETAIL
Scale: N.T.S.

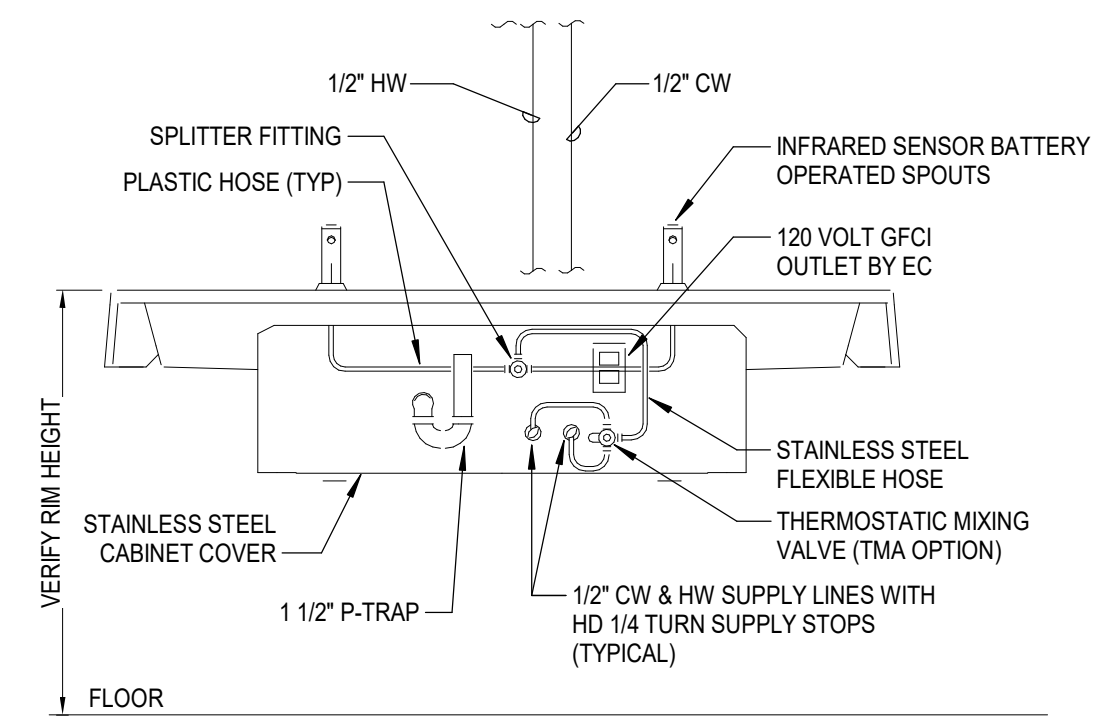


7 SINK WITH THERMOSTATIC MIXING VALVE
Scale: N.T.S.



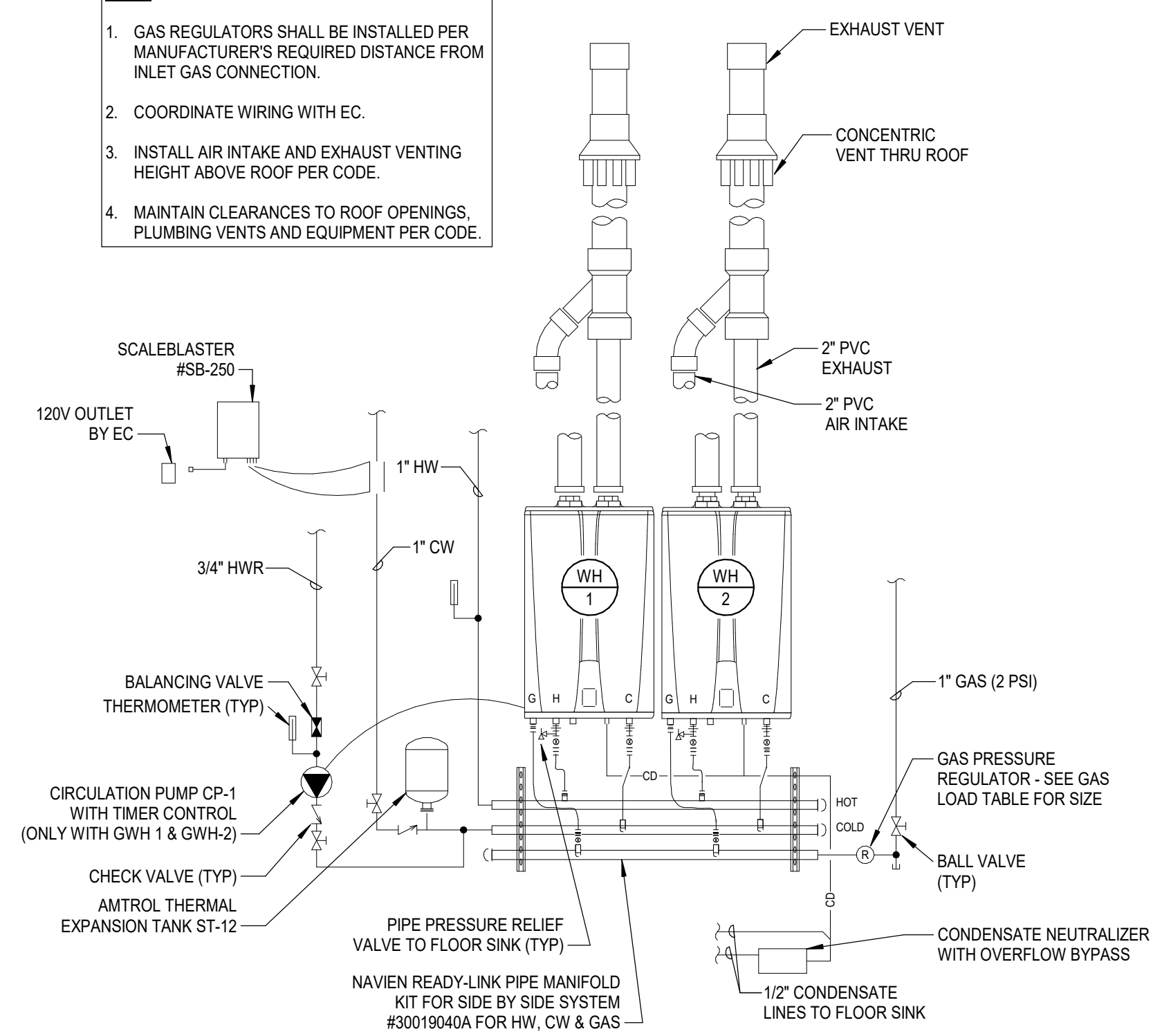
6 WALL MOUNTED LAVATORY DETAIL
Scale: N.T.S.

- NOTE:**
1. VERIFY FIXTURE HEIGHTS FOR EACH AREA WITH ARCHITECTURAL PLANS.
 2. WASTE WATER PIPING SHALL BE CONCEALED IN CABINET COVER.
 3. TMA OPTION INCLUDES: THERMOSTATIC MIXING VALVE, SUPPORT BRACKET, STAINLESS STEEL HOSES, SPLITTER FITTING, PLASTIC HOSES.

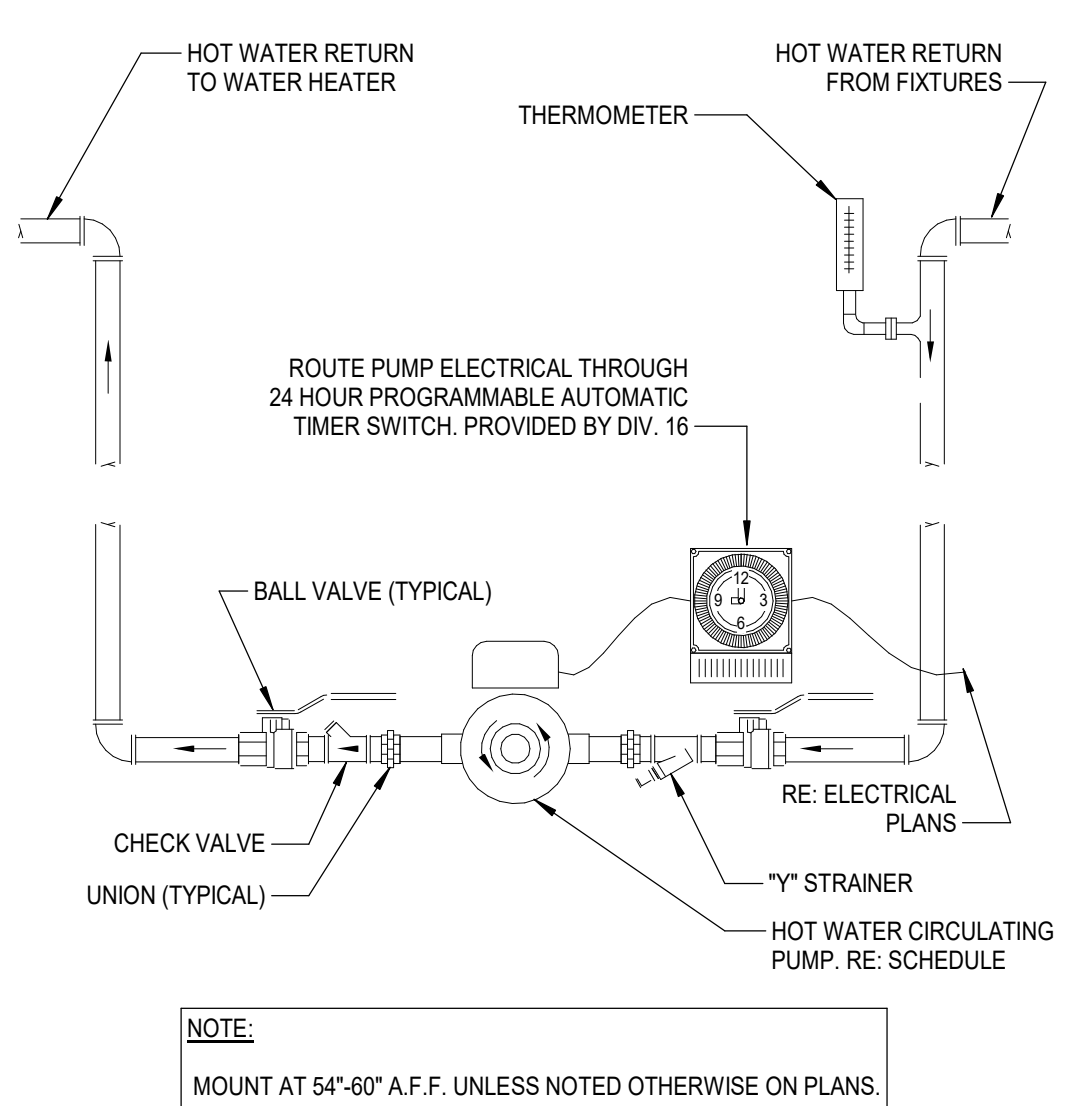


5 TWO STATION LAVATORY DETAIL
Scale: N.T.S.

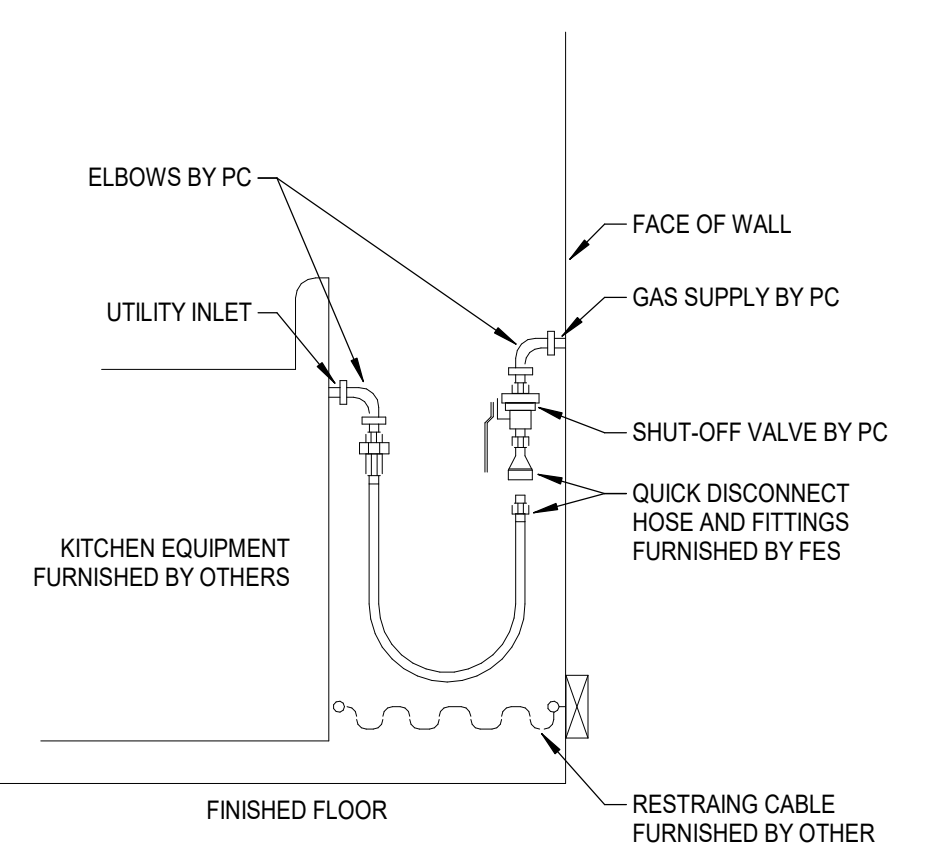
- NOTE:**
1. GAS REGULATORS SHALL BE INSTALLED PER MANUFACTURER'S REQUIRED DISTANCE FROM INLET GAS CONNECTION.
 2. COORDINATE WIRING WITH EC.
 3. INSTALL AIR INTAKE AND EXHAUST VENTING HEIGHT ABOVE ROOF PER CODE.
 4. MAINTAIN CLEARANCES TO ROOF OPENINGS, PLUMBING VENTS AND EQUIPMENT PER CODE.



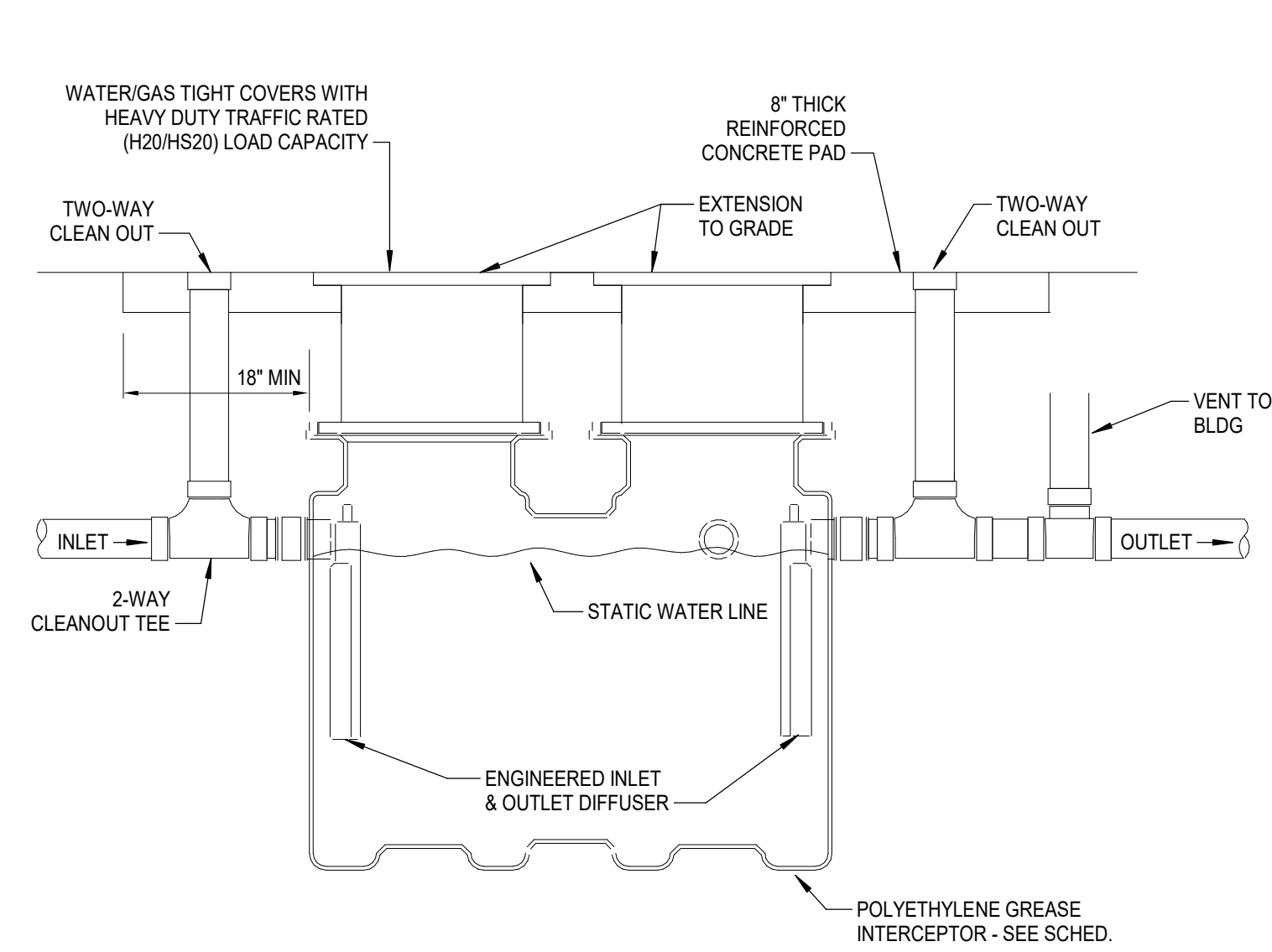
9 DUAL TANKLESS GAS WATER HEATERS (CONCENTRIC)
Scale: N.T.S.



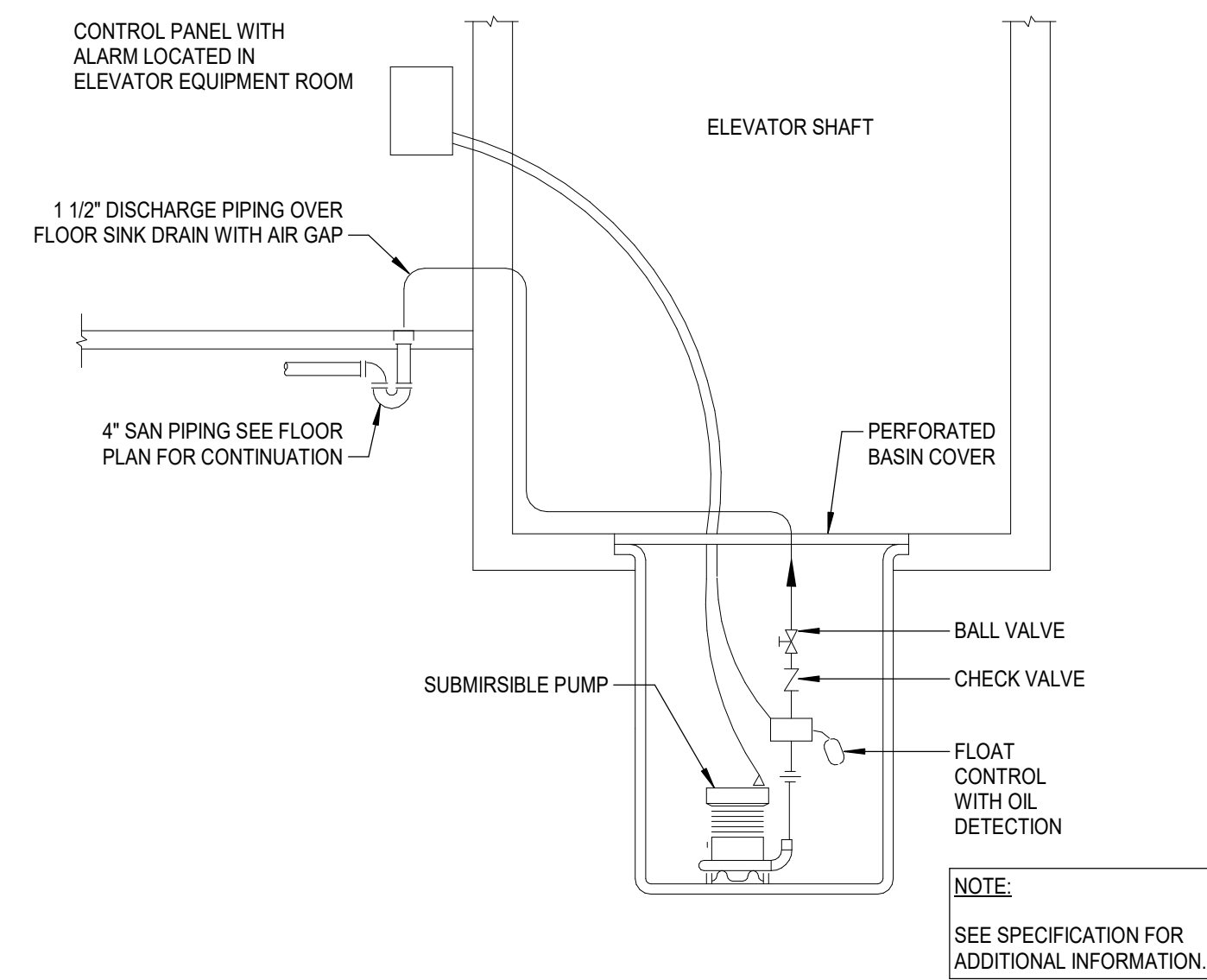
10 HOT WATER RECIRCULATION PUMP
Scale: N.T.S.



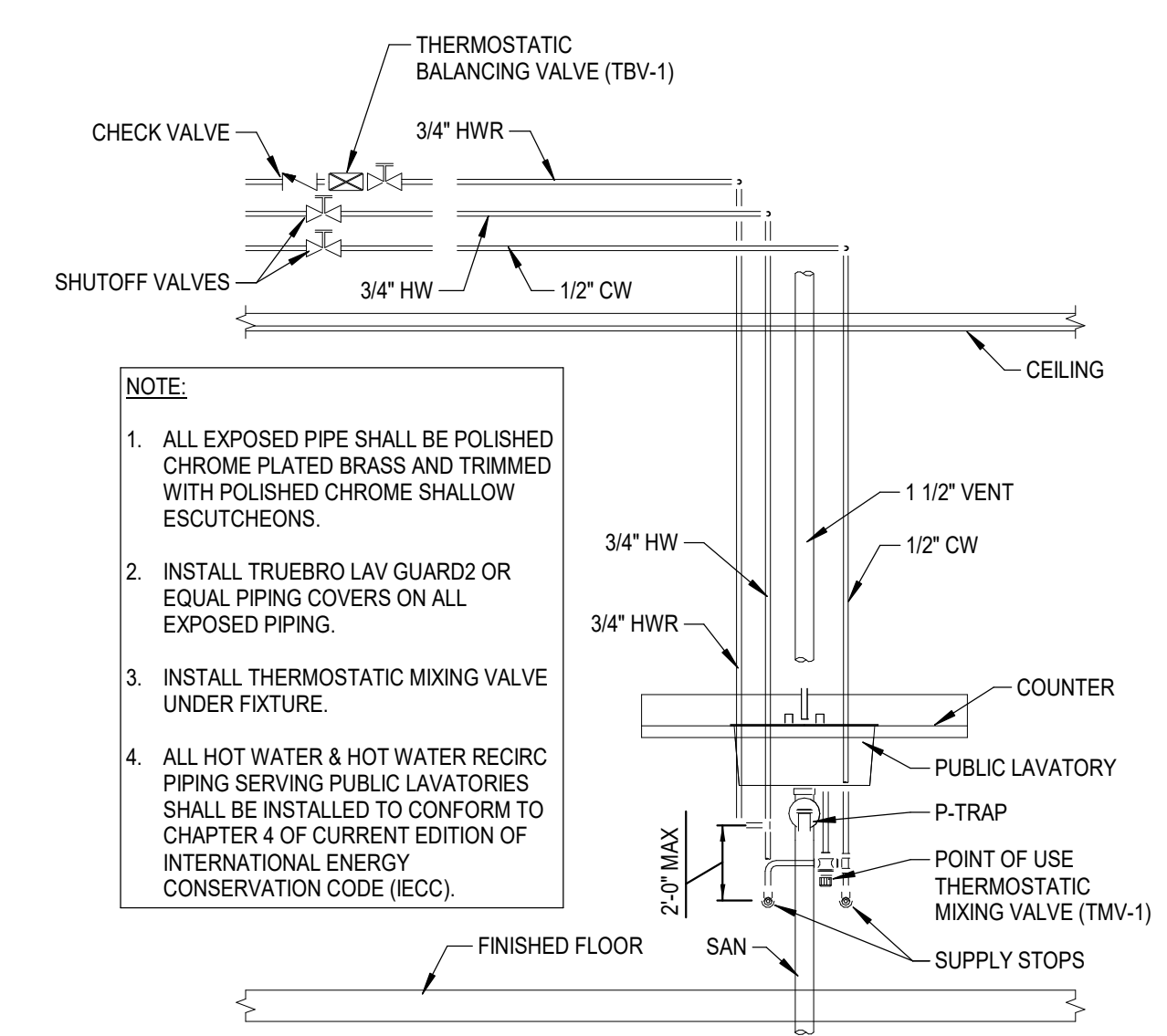
11 GAS QUICK CONNECT DETAIL
Scale: N.T.S.



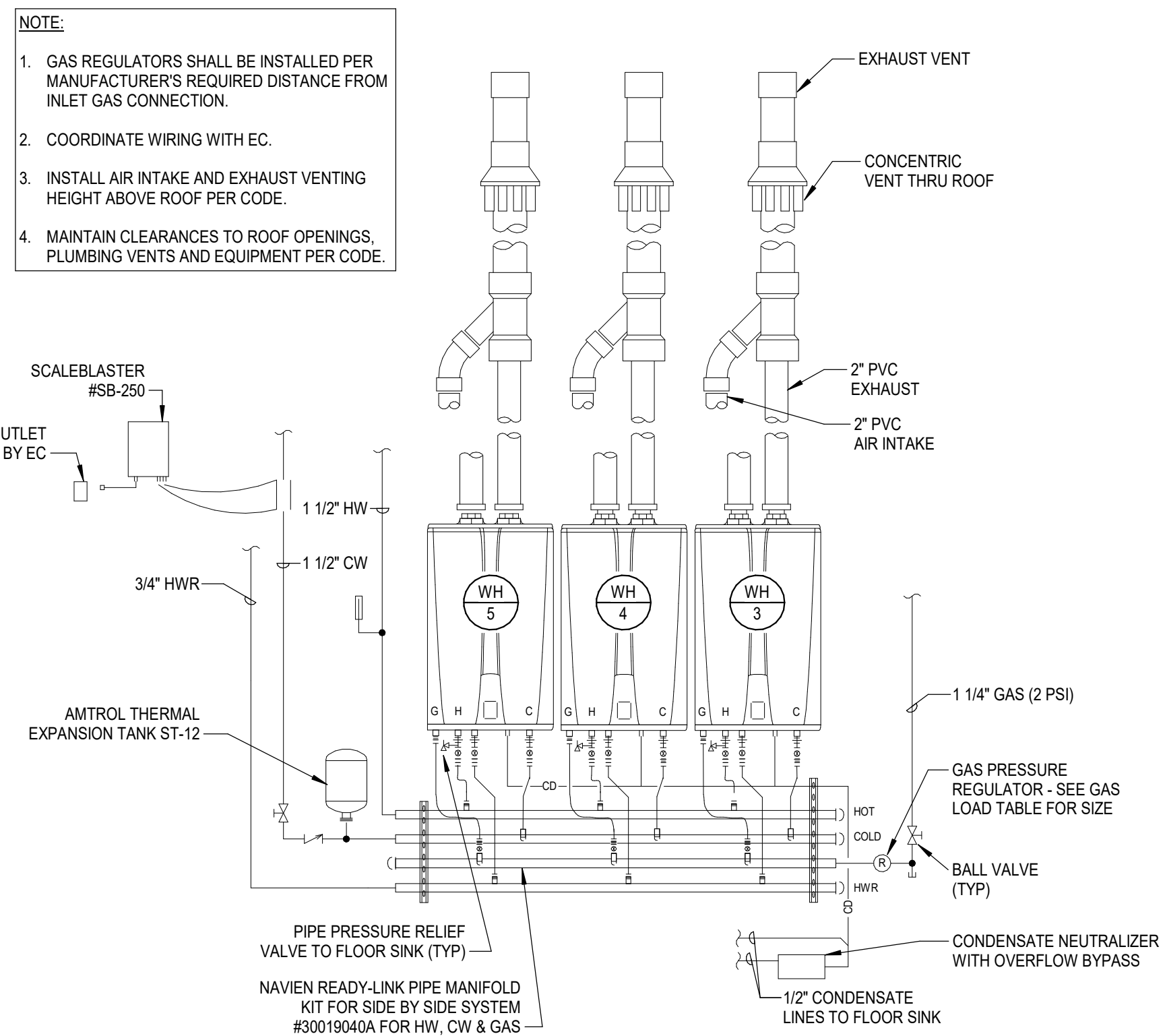
3 EXTERIOR GREASE INTERCEPTOR TANK DETAIL
Scale: N.T.S.



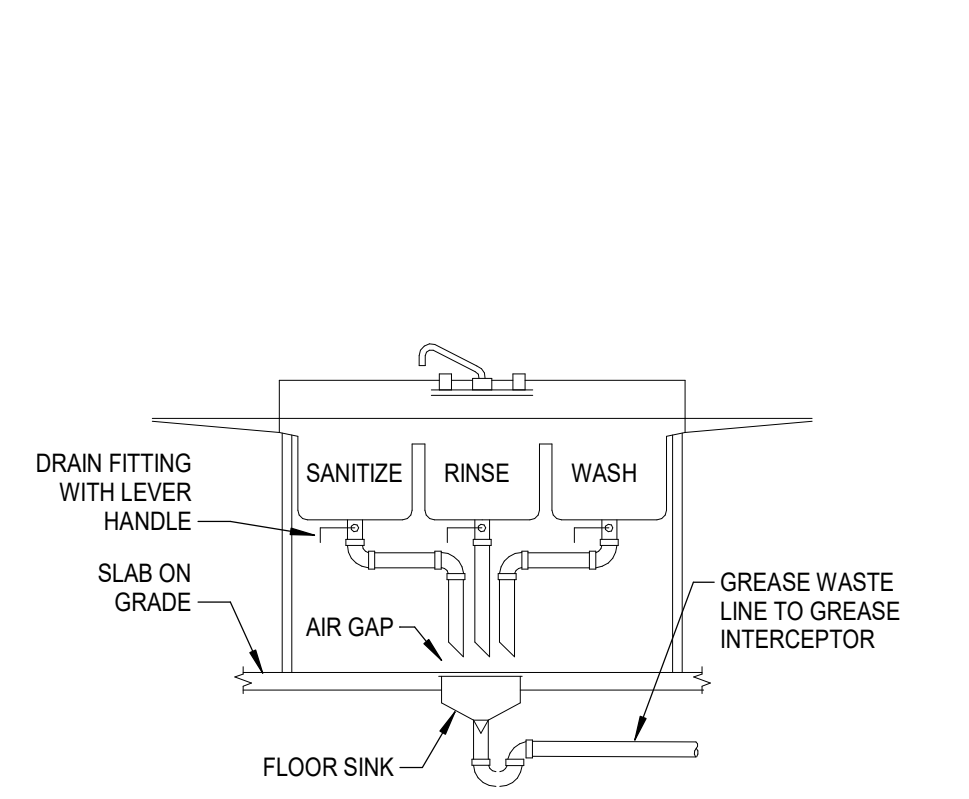
2 ELEVATOR PIT SUMP PUMP DETAIL
Scale: N.T.S.



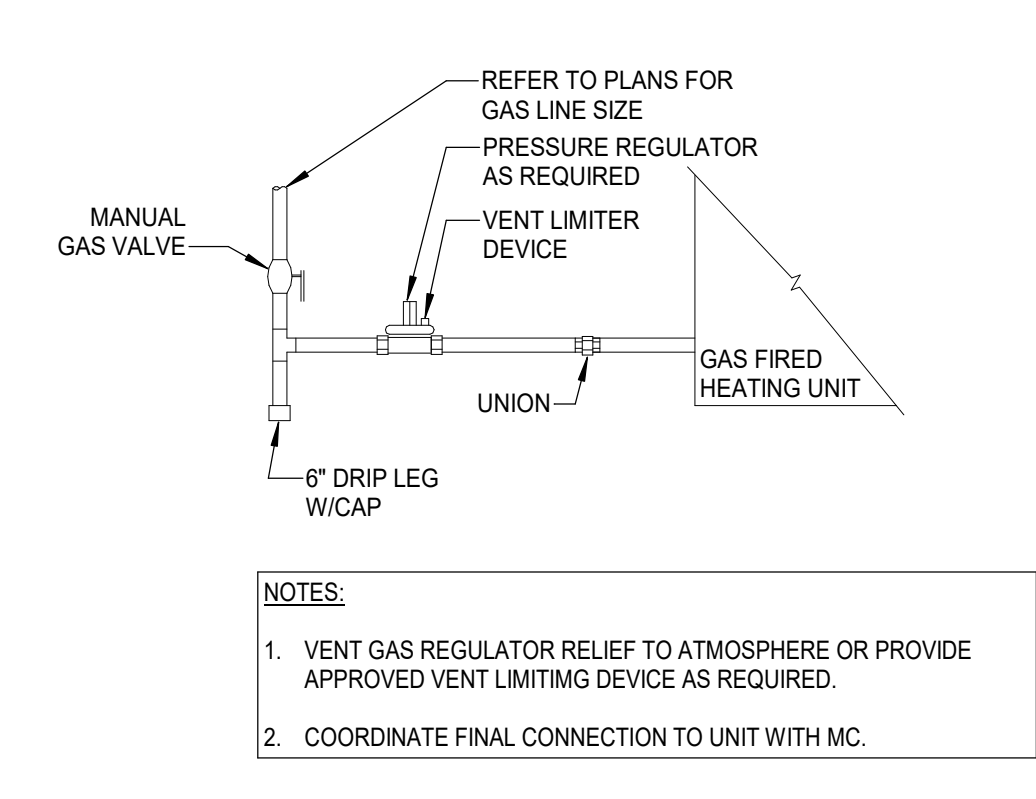
1 PUBLIC LAVATORY HW RECIRC DETAIL
Scale: N.T.S.



6 TRIPLE TANKLESS GAS WATER HEATERS (CONCENTRIC)
Scale: N.T.S.



5 COMMERCIAL KITCHEN SINK DETAIL
Scale: N.T.S.



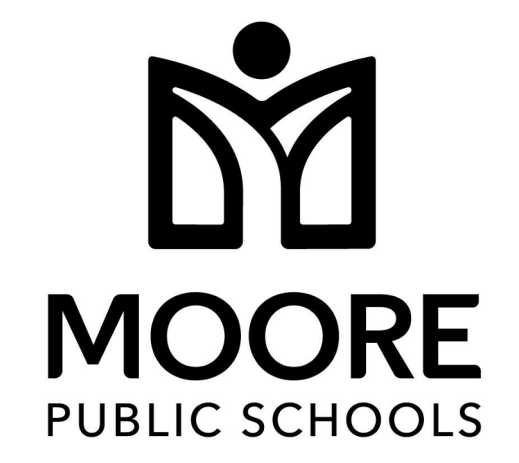
4 HEATING EQUIPMENT DETAIL
Scale: N.T.S.



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GAS LOAD TABLE					
MARK	INPUT (MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-1	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-2	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-3	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-4	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-5	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-6	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-7	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-8	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-9	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-10	-	-	-	-	-
F-11	-	-	-	-	-
F-12	-	-	-	-	-
F-13	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-14	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-15	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-16	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-17	60 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-18	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-19	60 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-20	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-21	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-22	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-23	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-24	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
DRYER	50 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
KITCHEN	180 MBH	10"	MAXITROL 325-3L	2 PSI	ALL
DOAS-1	155 MBH	7"	MAXITROL 325-3LB	2 PSI	ALL
GWH-1	400 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-2	400 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-3	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-4	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-5	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
DH-1	350 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
TOTAL MBH:	3335 MBH				
NOTES:					
1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.					
2. COORDINATE WITH MECHANICAL CONTRACTOR OR KITCHEN EQUIPMENT CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.					
3. PROVIDE VENT LIMITING DEVICE FOR INDOOR REGULATORS. PROVIDE VENT PROTECTOR FOR REGULATORS LOCATED OUTSIDE.					
4. GAS SYSTEM DESIGN MAIN BUILDING: INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 500 FEET.					
5. GAS SYSTEM DESIGN STORM SHELTER: INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 450 FEET.					

PLUMBING KITCHEN EQUIPMENT SCHEDULE							
ITEM	DESCRIPTION	INDIRECT DRAIN	DIRECT DRAIN	VENT	CW	HW	GAS
11	ICEMAKER	3/4"	-	-	1/2"	-	-
12	PREP TABLE	2"	-	-	1/2"	1/2"	-
16	HAND SINK	-	2"	1 1/2"	1/2"	1/2"	-
18	WORK TABLE SINK	2"	-	-	1/2"	1/2"	-
23	COMBI-OVEN	3/4"	-	-	1/2"	-	-
24	KETTLE	-	-	-	1/2"	1/2"	-
25	RANGE	-	-	-	-	-	3/4" 70 MBH
26	CONVECTION OVEN	-	-	-	-	-	(2) 3/4" 55 MBH
32	COOKS TABLE SINK	2"	-	-	1/2"	1/2"	-
36	SERVING COUNTER	-	-	-	1/2"	-	-
37	COLD FOOD WELL	3/4"	-	-	1/2"	-	-
42	WASHER BY OWNER	-	2"	1 1/2"	1/2"	1/2"	-
43	DRYER BY OWNER	-	-	-	-	-	1/2" 50 MBH
47	SOILED DISHTABLE & POT SINK	(3) 2"	-	-	(2) 3/4"	(2) 3/4"	-
49	HOSE REEL	-	-	-	1/2"	1/2"	-
51	DISHWASHER	2"	-	-	1/2"	1/2"	-
52	WATER TROUGH	-	-	-	3/4"	3/4"	-

EQUIPMENT LISTED PROVIDED BY FOOD SERVICE CONTRACTOR (FSC). COORDINATE WITH FSC FOR REQUIRED CONNECTIONS.

PLUMBING FIXTURE SCHEDULE										
MARK	MANUFACTURER	MODEL	MOUNTING TYPE	CW	HW	SAN	VENT	FIXTURE DESCRIPTION		
DRAINAGE FIXTURE (FD, FS, HD, TD)										
3FCO	ZURN	ZN1400-BZ-K-VP	FLOOR				3"	ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG, ROUND SCORIATED TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS. SEE DETAIL 2/P501.		
3WCO	ZURN	Z1446-VP	WALL				3"	CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.		
4ECO	ZURN	Z1474-N-VP	GRADE				4"	CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURE GASKETED COVER WITH CLEANOUT FERRULE WITH ABS PLUG, VANDAL PROOF COVER SCREWS.		
4FCO	ZURN	ZN1400-BZ-K-VP	FLOOR				4"	ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG, ROUND SCORIATED TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS. SEE DETAIL 2/P501.		
4WCO	ZURN	Z1446-VP	WALL				4"	CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.		
BVV-1	RECTORSEAL	97034	GRADE				4"	PVC BODY, FLAPPER WITH EXTENSION AND CAP. PROVIDE PVC SLEEVE TO FLUSH WITH FINISH GRADE. FIELD VERIFY DEPTH OF ACCESS HOUSING. ASSEMBLY MEETS IPC CODES. SEE DETAIL 4/P501		
FD-1	ZURN	ZN415-BZ1-P-VP	FLOOR				2"	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.		
FD-2	ZURN	ZS415-BZ1-P-VP	FLOOR				3"	6" ROUND STAINLESS STEEL STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.		
FD-3	ZURN	ZN415-BZ1-P-VP	FLOOR				3"	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.		
FS-1	ZURN	ZN1910-K-2-23	FLOOR				3"	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2" GRATE WITH NICKEL BRONZE FINISH & SEDIMENT BUCKET.		
FS-2	ZURN	ZN1901-K-2-23	FLOOR				4"	12"x12" TOP, 8" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2" GRATE WITH NICKEL BRONZE FINISH & SEDIMENT BUCKET.		
FS-3	ZURN	ZS1910-K-P-2-23	FLOOR				3"	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2" TRAP PRIMER CONNECTION, STAINLESS STEEL FRAME WITH 1/2" GRATE & SEDIMENT BUCKET.		
FS-4	ZURN	ZS1901-K-2-23	FLOOR				4"	12"x12" TOP, 8" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, STAINLESS STEEL FRAME, 1/2" GRATE & SEDIMENT BUCKET.		
DRINKING FOUNTAIN (EDF)										
EWC-1	ELKAY	LZSSWSSP	WALL	1/2"			2"	1 1/2"	SINGLE LEVEL VANDAL-RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION, FILTERED, 120 VOLT, PROVIDE ELKAY CANE APRON LKAPREZL ON UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.	
EWC-2	ELKAY	LZSTL8WSSK	WALL	1/2"			2"	1 1/2"	DUAL LEVEL VANDAL-RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION ON LOWER UNIT, FILTERED, 120 VOLT, PROVIDE ELKAY CANE APRON LKAPREZL ON UPPER UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.	
FIXTURES										
RVB-1	SIUOX CHIEF	696-G1010WF	WALL	1/2"					FIRE RATED RECESSED REFRIGERATOR VALVE BOX, ABS WITH WHITE FINISH, 1/2" CONNECTION, INTEGRAL BALL VALVE WITH HAMMER ARRESTOR, 1/4" THREADED OUTLET CONNECTION. ROUGH-IN: COORDINATE HEIGHT WITH EQUIPMENT CONNECTION.	
HYDRANTS (HB, RH, WH)										
FRH	WATTS	HY-900	ROOF	3/4"					FREEZELESS HYDRANT, ROOF MOUNTING ASSEMBLY & SUPPORT, THREADED HOSE OUTLET WITH DUAL CHECK BFP ASSE 1052. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.	
FWH	WOODFORD	B65	WALL	3/4"					CONCEALED BOX TYPE WITH HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE. GIVE HYDRANT KEY TO OWNER.	
LAUNDRY BOX (LB, WMB)										
LB-1	SIUOX CHIEF	696RG2313WF	WALL	1/2"	1/2"	2"	2"		FIRE RATED RECESSED WALL MOUNTED BOX WITH FLANGE, 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS, 3/4" THREADED OUTLETS, DRAIN CONNECTION. COORDINATE INSTALL HEIGHT FOR CLOTHES WASHER.	
MOP SINK (MS)										
MS-1	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	2"		PROVIDE 832AA HOSE & BRACKET, 889-CC MOP BRACKET, MS9 2424SS WALL GUARDS. PROVIDE T&S BRASS FAUCET B-0665-BSTR, ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER, WATTS LF6A OR APPROVED EQUAL.	
SINK (S)										
S-1	ELKAY	LRAD1919602	COUNTERTOP	1/2"	1/2"	2"	2"		SINGLE BOWL, 6" DEEP, 2 FAUCET HOLES, REAR CENTER DRAIN, PROVIDE ELKAY LKD35 DRAIN & ELKAY LK406GN08T4 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165 SUPPLY STOPS, INSTALL THERMOSTATIC MIXING VALVE (TMV-V) UNDER SINK. SEE DETAIL 7/P501.	
SINK/LAVATORIES (L, SK)										
L-1	AMERICAN STANDARD	0356 041	WALL	1/2"	1/2"	2"	2"		COLOR WHITE, SINGLE FAUCET HOLE. PROVIDE DELTA SELF METERING FAUCET 877105, MCGUIRE HD155A GRID STRAINER, 8902C P-TRAP, LFBV2165CC 1/4 TURN SUPPLY STOPS, TRUEBRO LAV GUARD2 PIPE COVERS, ZURN WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. INSTALL THERMOSTATIC MIXING VALVE (TMV-V) BELOW FIXTURE. SEE DETAIL 5/P501.	
L-2	BRADLEY	VERGE LVRD2	WALL	1/2"	1/2"	2"	2"		2-STATION LAVATORY, NO SOAP DISPENSER, CENTER SHANK FAUCET DRILLING (2 FAUCETS), THERMOSTATIC MIXING ASSEMBLY, STAINLESS STEEL ACCESS PANEL, PVC P-TRAP, DELTA SELF METERING FAUCET 877105, QUARTER TURN LEAD-FREE, FLEXIBLE SUPPLY LINES, MCGUIRE LFBV2165. ALL AVAILABLE COLORS FOR SELECTION BY ARCHITECT.	
TRAP PRIMER (TP)										
TP-1	SIUOX CHIEF	695-ES01	WALL	1/2"					SURFACE MOUNT BOX, ELECTRIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & OUTLET, 120V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. PROVIDE DISTRIBUTION SPLITTER. SEE DETAIL 1/P501.	
TP-2	SIUOX CHIEF	695-ES05	WALL	1/2"					SURFACE MOUNT, ELECTRIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & 5 OUTLETS, 120 V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. SEE DETAIL 1/P501.	
WATER CLOSET (WC)										
WC-1	AMERICAN STANDARD	2257.101	WALL	1 1/2"		4"	2"		COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 16555SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION.	
WC-2	AMERICAN STANDARD	2257.101	WALL	1 1/2"		4"	2"		COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 16555SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE.	

THERMOSTATIC MIXING VALVE SCHEDULE						
MARK	BASIS OF DESIGN		LOCATION	CW	HW	DESCRIPTION
	MANUFACTURER	MODEL				
TMV-1	WATTS	LFMMVM1	UNDER FIXTURES	1/2"	1/2"	LOCATED UNDER LAVATORIES AND SINKS
NOTES:						
1. INSTALL THERMOSTATIC MIXING VALVES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LOCAL PLUMBING CODE.						

GREASE INTERCEPTOR SCHEDULE											
MARK	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	GREASE CAP. (LBS)	STANDARD CONNECTION	DIMENSIONS			WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
						LENGTH	WIDTH	HEIGHT			
GI-1	EXTERIOR BELOW GRADE	200	277	1,196	4"	87"	33"	46.5"	416	SCHIER GB-250	ALL
NOTES:											
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE.											
2. INSTALL EXTERIOR BELOW GRADE GREASE INTERCEPTOR SO COVER IS FLUSH WITH FINISHED CONCRETE PAD. PROVIDE EXTENSION RISER ASSEMBLY AS REQUIRED. PROVIDE TRAFFIC RATED COVERS.											
3. INSTALL GREASE INTERCEPTOR WITH REQUIRED CLEARANCES FOR ACCESS AND CLEANING.											
4. PROVIDE SAMPLING PORT SCHIER SV10 WITH EXTENSION RISER DOWNSTREAM OF INTERCEPTOR PER MANUFACTURER'S RECOMMENDATIONS.											
5. SEE DETAIL SHEET P502 FOR ADDITIONAL INFORMATION.											

GREASE INTERCEPTOR SIZING	
GREASE INTERCEPTOR SIZED TO CPMLY WITH INTERNATIONAL PLUMBING CODE 2015 AND PDI-G101.	
FIXTURES DRAINING TO GREASE INTERCEPTOR:	
3-COMPARTMENT SINK: WASH AND RISE BOWLS TO INTERCEPTOR. BOWL SIZE: 20" x 24" x 14" = 6720 CU INCHES x 3 = 20,160 CU INCHES / 231 x 75% = 65 GALLONS	
HANDSINKS: 3 FIXTURES x 1 GPM = 3 GPM	
PREP SINGLE SINK: 2 FIXTURES: 18" x 18" x 14" = 4,536 CU INCHES x 2 / 231 x 75% = 30 GALLONS	
DISHWASHER: 36 GALLONS	
WORK TABLE SINK: BOWL SIZE: 12" x 16" x 14" = 2,688 CU INCHES / 231 x 75% = 9 GALLONS	
PREP DOUBLE SINK: BOWL SIZE: 18" x 18" x 14" = 4,536 CU INCHES x 2 / 231 x 75% = 30 GALLONS	
FLOOR SINKS WITH 3" OUTLET: 4 FIXTURES x 5 GPM = 20 GPM	
MOP SINK: BOWL SIZE: 20" x 20" x 6" = 2,400 CU INCHES / 231 x 75% = 8 GALLONS	
TOTAL DRAIN FLOW PER 2 MINUTES = 201 GALLONS / 2 MIN = 101 GALLONS	
USE INTERCEPTOR SIZED FOR FLOW RATE OF 200 GPM.	

TANKLESS GAS WATER HEATER SCHEDULE											
MARK	BASIS OF DESIGN		STORAGE CAPACITY (GAL)	BTU/HR INPUT	WH GALS PER HR RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR.				REMARKS
	MANUFACTURER	MODEL					V	P	MCA	MOCP	
GWH-1	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL
GWH-2	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL
GWH-3	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL
GWH-4	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL
GWH-5	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL
NOTES:											
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS.											
2. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 2 AMP (GFCI OUTLET).											
3. PROVIDE AMTRLO ST-12 THERMAL EXPANSION TANK ON COLD WATER LINE. REFER TO DETAILS SHEET P501 AND P502.											
4. PROVIDE CLEAR WATER ENVIRO TECHNOLOGIES SCALEBLASTER MODEL SB-250 ELECTRONIC DESCALER. COORDINATE 120 VOLT OUTLETS WITH EC.											
5. PROVIDE CIRCULATION PUMP WIRING FROM WATER HEATERS (GWH-1 AND GWH-2). COORDINATE POWER CONNECTIONS WITH EC.											
6. PROVIDE NAVIEN CONDENSATE NEUTRALIZER KIT AND OVERFLOW BYPASS PIPING TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS.											
7. PROVIDE ONE COMMUNICATION CABLE FOR GWH-1 & GWH-2. PROVIDE TWO COMMUNICATION CABLES FOR GWH-3, GWH-4 & GWH-5.											
8. PROVIDE NAVIEN READY-LINK WALL MOUNT PIPING MANIFOLD SYSTEM FOR WATER HEATERS.											
9. PROVIDE NAVIEN EXHAUST/INTAKE CONCENTRIC VENT KIT THRU ROOF.											
10. SEE DETAIL 9/P501 AND 6/P502 FOR ADDITIONAL INFORMATION.											

CIRCULATION PUMP SCHEDULE													
MARK	BASIS OF DESIGN		MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MATERIAL	GPM	HEAD FEET	HP MIN	RPM	FLANGE SIZE (INCHES)	ELECTRICAL CHAR.		REMARKS
	MANUFACTURER	MODEL									V	P	
CP-1	BELL & GOSSETT	ECOCIRC+ 20-18	150 PSI	225	S.S.	3	8'-0"	1/6	VARIES	3/4"	120	1	ALL
NOTES:													
1. PROVIDE WATTS BRONZE 3/4" FLANGE SET.													
2. PROVIDE 24 HOUR TIMER - SET TIMER PER OWNER'S REQUIREMENTS.													
3. COORDINATE WIRING WITH EC.													
4. CP-1 SERVES WATER HEATERS GWH-1 AND GWH-2. SEE DETAIL 10/P501 FOR ADDITIONAL INFORMATION.													

SUMP PUMP SCHEDULE											
MARK	LOCATION	GPM	HEAD FEET	OIL SENSOR	SUMP SIZE	DISCHARGE CONNECTION	MOTOR HP	ELECTRICAL CHAR.		BASIS OF DESIGN	
								V	P	MANUFACTURER	MODEL
SP-1	ELEVATOR PIT	50	20'-0"	YES	2'-0" DIA 2'-6" DEEP	1 1/2"	0.5	120	1	ZOELLER PUMPS	940-0013