PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	FIRE DEPARTMENT VALVE AT RISER	SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
	FIRE HYDRANT	SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
	FIRE DEPARTMENT CONNECTION	GW	GREASE WASTE PIPING (GW)
		GW	GREASE WASTE PIPING BELOW GRADE (GW)
	PRESSURE REDUCING VALVE (PRV)	SD	STORM DRAIN PIPING (SD)
	BRANCH CONNECTION OUT OF TOP	SD	STORM DRAIN PIPING BELOW GRADE (GW)
	BRANCH CONNECTION OUT OF BOTTOM	SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
	BRANCH CONNECTION OUT OF SIDE	AW	ACID WASTE PIPING (AW)
	WYE & 1/8TH BEND BRANCH CONNECTION	AW	ACID WASTE PIPING BELOW GRADE (AW)
	WYE BRANCH CONNECTION	PD	PUMPED DISCHARGE (PD)
	HOSE BIBB	CD	CONDENSATE DRAIN PIPING (CD)
	PRESSURE GAUGE WITH COCK	D	CONDENSATE - INDIRECT DRAIN PIPING (D)
			VENT PIPING (V)
	THERMOMETER	CW	COLD WATER PIPING (CW)
		HW	HOT WATER PIPING (HW)
	GAS PRESSURE REGULATOR	HWR	HOT WATER RETURN PIPING (HWR)
	TEST COCK	SCW	SOFT COLD WATER PIPING (SCW)
	GAS METER	CDW	CHILLED DRINKING WATER PIPING (CDW)
	WALL HYDRANT	TP	TRAP PRIMER LINE (TP)
	VALVE IN RISE	F	FIRE PROTECTION PIPING (F)
	ASME TEMPERATURE & PRESSURE RELIEF VALVE	AS	AUTOMATIC SPRINKLER PIPING (AS)
	VACUUM RELIEF VALVE	GAS	NATURAL GAS PIPING (G)
	ANGLE VALVE	GV	GAS VENT PIPING (GV)
	OS&Y VALVE	AIR	COMPRESSED AIR PIPING (A)
			FLOW DIRECTIONAL ARROW
	ROOF DRAIN		CIRCUIT SETTER
			NEW TO EXISTING PIPE CONNECTION
1	REFER TO KEYED NOTE		PIPE CONNECTION
FS	FLOW SWITCH		HAMMER ARRESTOR (PISTON TYPE)
			SHUT-OFF VALVE
	FLOOR SINK (FS)		BALANCING VALVE (BV)
	FLOOR DRAIN (FD)		SOLENOID VALVE (SV)
	FLOOR DRAIN WITH P-TRAP (FD)		BALL VALVE (BV)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)		BUTTERFLY VALVE
	HUB DRAIN (HD)		LUBRICATED PACKED PLUG STOP COCK (PC)
M	WATER METER SYMBOL		HORIZONTAL SWING CHECK
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER		UNION
AP	ACCESS PANEL LOCATION SYMBOL		HORIZONTAL SWING CHECK
	AIR CHAMBER		REDUCER OR INCREASER
			ECCENTRIC REDUCER
	NEW CONNECTION		REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
			PIPING DOWN
IE=100.00'	INVERT ELEVATION		RISE OR DROP PIPING
1	DELTA CHANGE SYMBOL		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	NPCW	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
P101	PLUMBING PLAN - BELOW GRADE
P110	PLUMBING PLAN - ABOVE GRADE
P201	PLUMBING ROOF PLAN
P301	PLUMBING ISOMETRICS
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES

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STATE OF OKLAHOMA — PROFESSIONAL ENGINEER — Timothy M. McDonald — 25922 — 06/30/26

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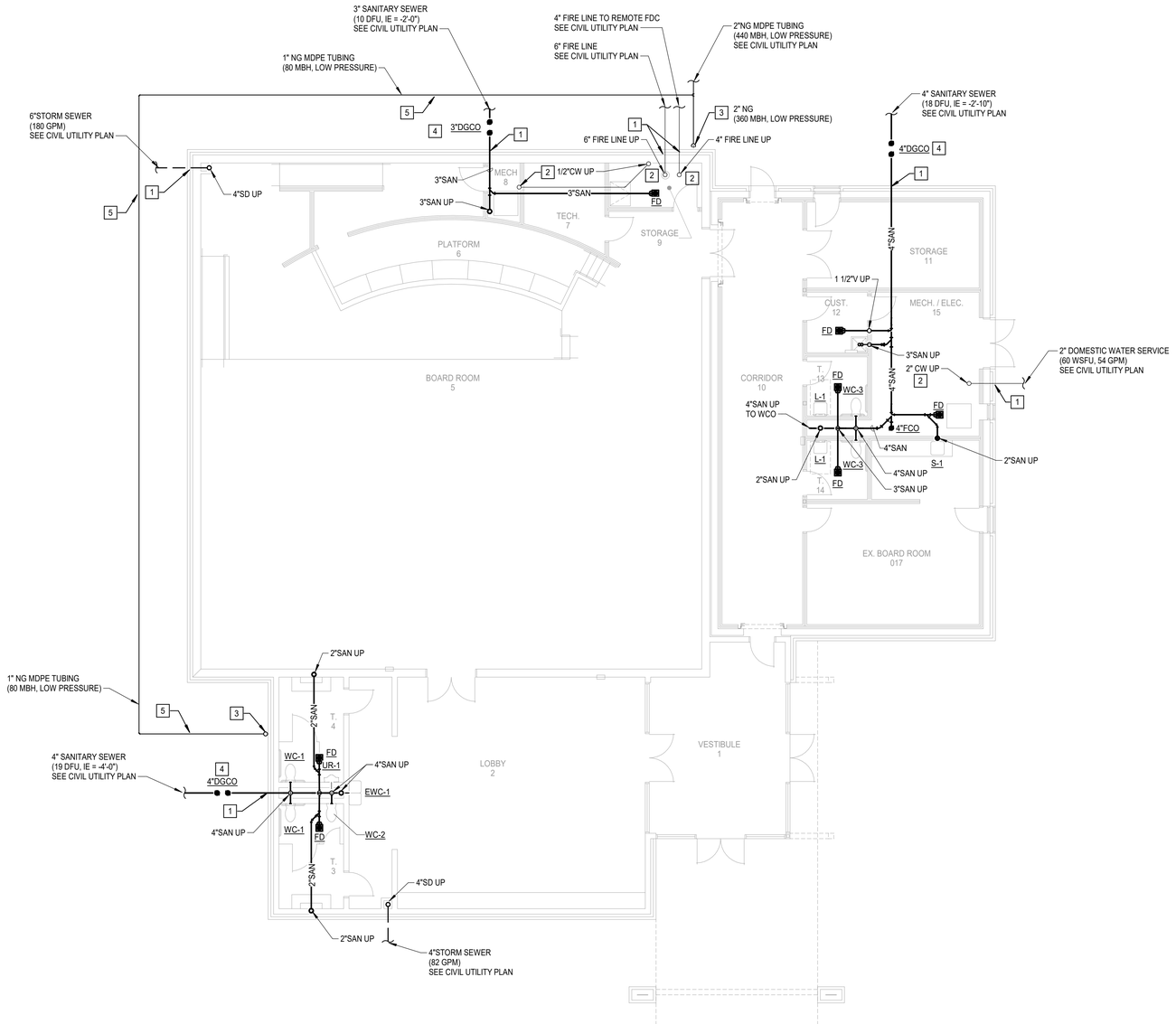
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CA#: 9820 Expiration Date: 06/30/27

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PLUMBING PLAN - BELOW GRADE

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

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRICS SHEET P301 FOR ADDITIONAL PIPE SIZES.
4. PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
5. PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATIONS.
6. 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 DETAILS 1/P501 AND 5/P501.
7. COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
8. INSTALL TRACER WIRE ABOVE EXTERIOR NON-METALLIC PIPING BELOW GRADE.
9. 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.

PLUMBING KEYED NOTES

1	COORDINATE WITH STRUCTURAL FOR INSTALLATION OF PIPE SLEEVE THRU OR BELOW FOUNDATION WALL FOR PIPE.
2	COORDINATE WITH STRUCTURAL FOR INSTALLING PIPE SLEEVE THRU CONCRETE FLOOR FOR WATER PIPE. INSTALL FOAM PIPE INSULATION ON WATER PIPE IN SLEEVE. SEAL PIPE SLEEVE WATER TIGHT ON EACH END.
3	INSTALL NATURAL GAS ANODELESS RISER TRANSITION FROM BELOW GRADE MDPE PIPE TO ABOVE GRADE BLACK IRON PIPE.
4	INSTALL CLEANOUTS IN CONCRETE PAD AT GRADE. SEE DETAIL 4/P501.
5	COORDINATE WITH SITE CONTRACTOR FOR ROUTING NATURAL GAS PIPE TO AVOID CONFLICTS WITH OTHER UTILITIES.

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Kimberly Paige McDonald
14309
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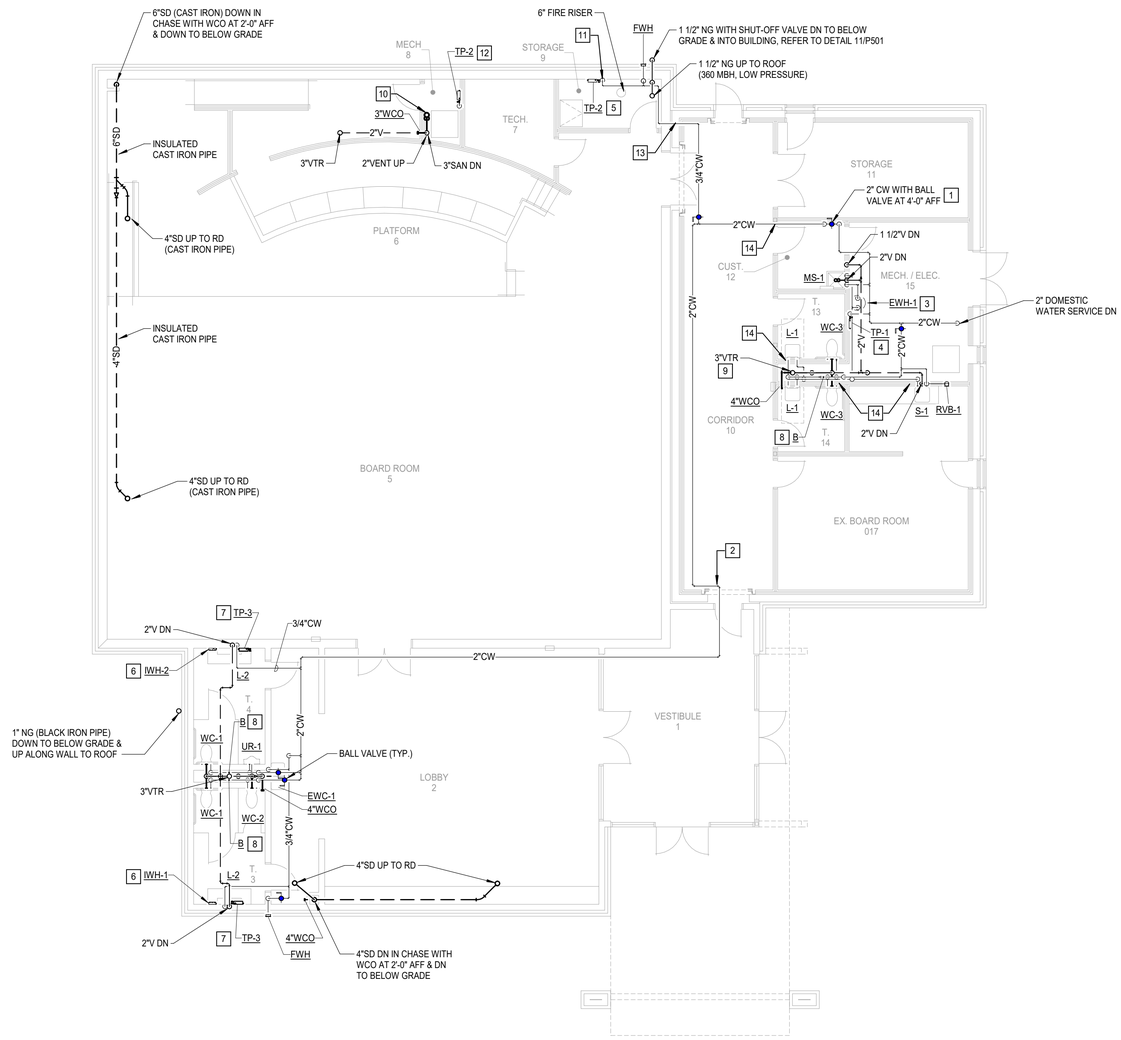
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N 1 **PLUMBING PLAN - ABOVE GRADE**

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

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
4. SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
5. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEET P301 FOR ADDITIONAL PIPE SIZES.
6. 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.
7. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
8. TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
9. COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.
10. FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
11. INSULATE ALL WATER PIPING ABOVE CEILING.
12. 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.

PLUMBING KEYED NOTES

1	INSTALL BALL VALVE AT WALL FOR SHUTTING OFF WATER TO NON-SHELTERED SPACES. PROVIDE SIGN ON WALL FOR WATER SHUT-OFF.
2	COORDINATE WITH STRUCTURAL FOR PIPE ROUTING THRU DEBRIS GUARD AT SHELTER WALL. GUARD PROVIDED BY STRUCTURAL. FIRE SEAL PIPE PENETRATION THRU RATED WALL.
3	INSTALL WATER HEATER ON WALL SUPPORT PLATFORM. REFER TO DETAIL 9/P501.
4	INSTALL TRAP PRIMER ASSEMBLY ON WALL AT 4'-0" AFF. FIELD VERIFY HEIGHT TO ROUTE LINES ABOVE FLOOR TO NEAREST WALL THEN DOWN TO BELOW FLOOR. ROUTE 4 TRAP PRIMER LINES (1/2" EACH) TO FLOOR DRAINS IN ROOMS 12,13, 14 AND 15. COORDINATE POWER WITH EC. REFER TO DETAIL 5/P501.
5	INSTALL TRAP PRIMER ASSEMBLY ON WALL AT 4'-0" AFF. ROUTE 1 TRAP PRIMER LINE (1/2" EACH) TO FLOOR DRAIN IN STORAGE ROOM 09. COORDINATE POWER WITH EC. REFER TO DETAIL 5/P501.
6	INSTALL WATER HEATER BELOW LAVATORY DECK IN ACCESSIBLE LOCATION. COORDINATE POWER WITH EC. REFER TO DETAIL 6/P501.
7	INSTALL TRAP PRIMER VALVE AT CW SUPPLY IN LAVATORY CABINET. ROUTE 1/2" TRAP PRIMER LINE DOWN IN WALL TO BELOW FLOOR TO FLOOR DRAIN. REFER TO DETAIL 1/P501 & 6/P501.
8	INSTALL WATER HAMMER ARRESTOR TYPE "B" ON CW PIPE
9	COORDINATE WITH STRUCTURAL FOR DEBRIS GUARD AT 3" VENT THRU SHELTER ROOF.
10	INSTALL 2" OPEN SITE DRAIN FOR FCU-2 CONDENSATE DRAIN LINES. COORDINATE LOCATION AND HEIGHT WITH MC AND RAISED FLOOR.
11	ROUTE 1/2" CW DOWN ALONG WALL. PROVIDE 1/2" CW BRANCH TO TRAP PRIMER TP-2. EXTEND 1/2" CW DOWN WITH BALL VALVE TO BELOW FLOOR TO SERVE TRAP PRIMER IN MECH ROOM 8.
12	ROUTE 1/2" CW UP FROM BELOW FLOOR TO TRAP PRIMER TP-2 ON WALL AT 8'-0"AFF. ROUTE 1/2" LINE FROM UNIT OVER TO OPEN SITE DRAIN. COORDINATE INSTALLATION WITH MC AND POWER WITH EC.
13	COORDINATE WITH GC FOR ROUTING CW PIPE THRU SHELTER WALL. FIRE SEAL PIPE PENETRATION THRU RATED WALL.
14	FIRE SEAL PIPE PENETRATION OF RATED WALL. REFER TO ARCHITECTURAL PLANS FOR ALL RATED WALLS.

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STATE OF OKLAHOMA REGISTERED PROFESSIONAL ENGINEER Kimberly P. McDonald 24302 06/30/26

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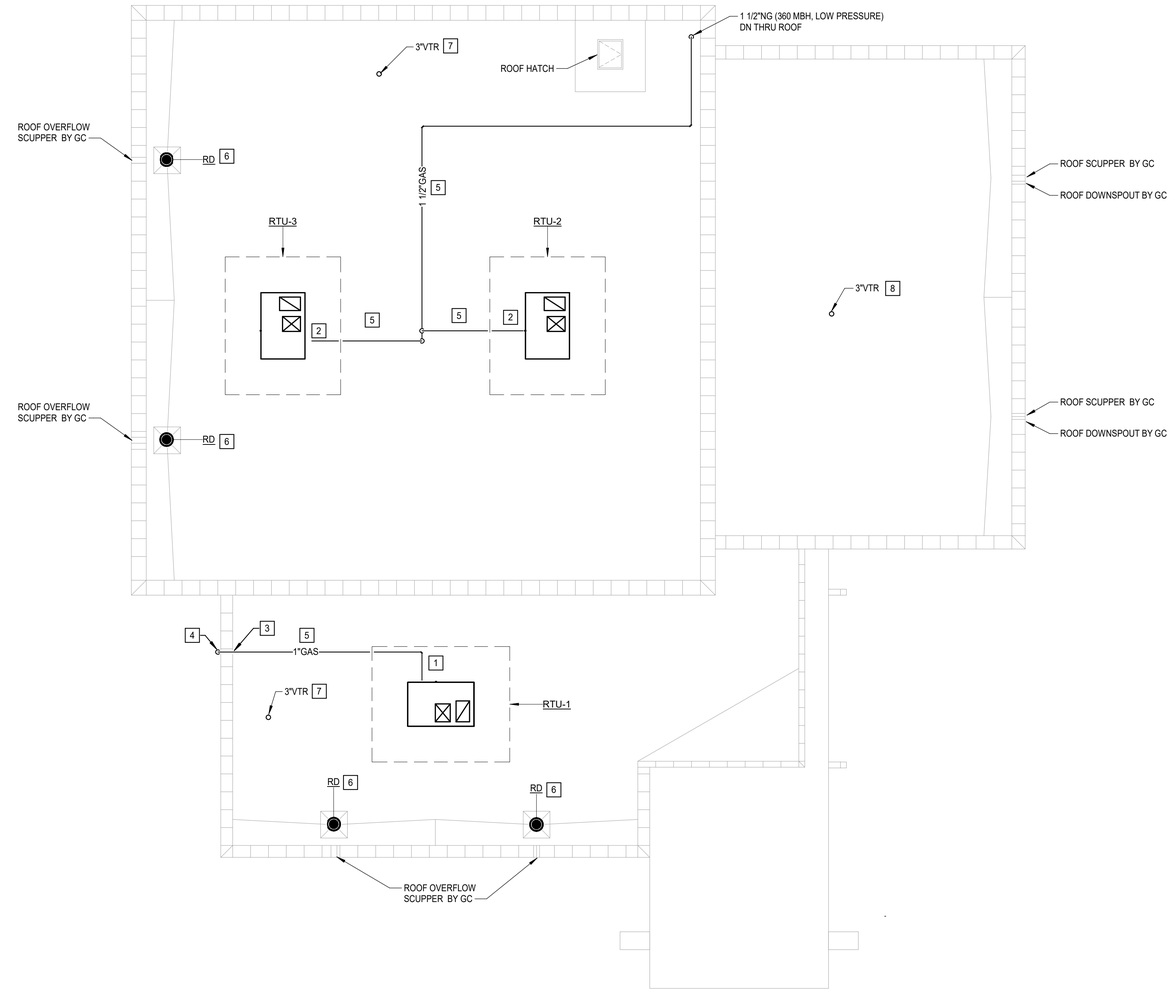
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N 1 **PLUMBING ROOF PLAN**
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. MAINTAIN A MINIMUM OF 10'-0" CLEAR BETWEEN EXHAUST AND INTAKE VENTS WITH MECHANICAL EQUIPMENT AND OTHER ROOF OPENINGS.
4. 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.
5. 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.
6. GAS PIPE IDENTIFICATION SHALL BE THE WORDS "NATURAL GAS" IN BLACK LETTERS AT 5'-0" INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
7. 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.

PLUMBING KEYED NOTES

1	INSTALL 3/4" NATURAL GAS (80 MBH, LOW PRESSURE) TO ROOFTOP UNIT. PROVIDE SHUT-OFF VALVE, DIRT LEG, PRESSURE REGULATOR IF REQUIRED, UNION AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MC. SEE DETAIL 8/P501.
2	INSTALL 1 1/4" NATURAL GAS (180 MBH, LOW PRESSURE) TO ROOFTOP UNIT. PROVIDE SHUT-OFF VALVE, DIRT LEG, PRESSURE REGULATOR IF REQUIRED, UNION AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MC. SEE DETAIL 8/P501.
3	COORDINATE WITH GC FOR ROUTING NATURAL GAS PIPE OVEROR THRU ROOF PARAPET AND DOWN ALONG WALL.
4	PROVIDE PIPE SUPPORTS FOR VERTICAL PIPE FROM ROOF DOWN TO GRADE.
5	ROUTE NATURAL GAS PIPE (LOW PRESSURE) ON ROOF. PROVIDE MIRO INDUSTRIES MODEL 3-RAH-8 ROOF TOP PIPE SUPPORTS OR EQUAL. INSTALL AT MAXIMUM OF 10'-0" APART ON ALL 1 1/4" GAS PIPE OR LARGER. INSTALL AT 8'-0" APART OF 1" OR 3/4" GAS PIPE. REFER TO GENERAL NOTES FOR PAINTING OF GAS PIPE. REFER TO PIPE SUPPORT DETAIL 10/P501.
6	COORDINATE WITH STRUCTURAL AND ROOFING CONTRACTORS FOR INSTALLATION OF ROOF DRAIN.
7	COORDINATE WITH ROOFING CONTRACTOR FOR INSTALLATION OF PLUMBING VENT THRU ROOF. MAINTAIN AT LEAST 10'-0" CLEAR TO EQUIPMENT, ROOF OPENINGS AND SUPPLY AIR INTAKES.
8	COORDINATE WITH STRUCTURAL AND ROOFING CONTRACTOR FOR INSTALLATION OF PLUMBING VENT THRU SHELTER ROOF WITH DEBRIS GUARD. MAINTAIN AT LEAST 10'-0" CLEAR TO EQUIPMENT, ROOF OPENINGS AND SUPPLY AIR INTAKES.

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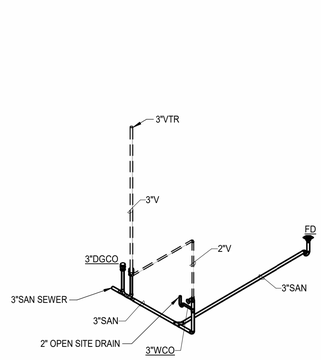
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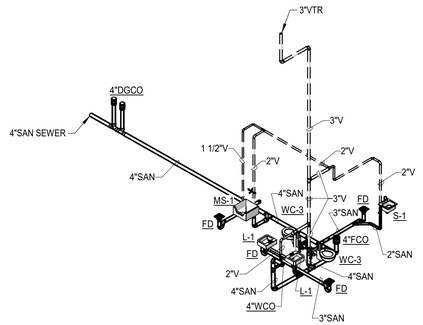
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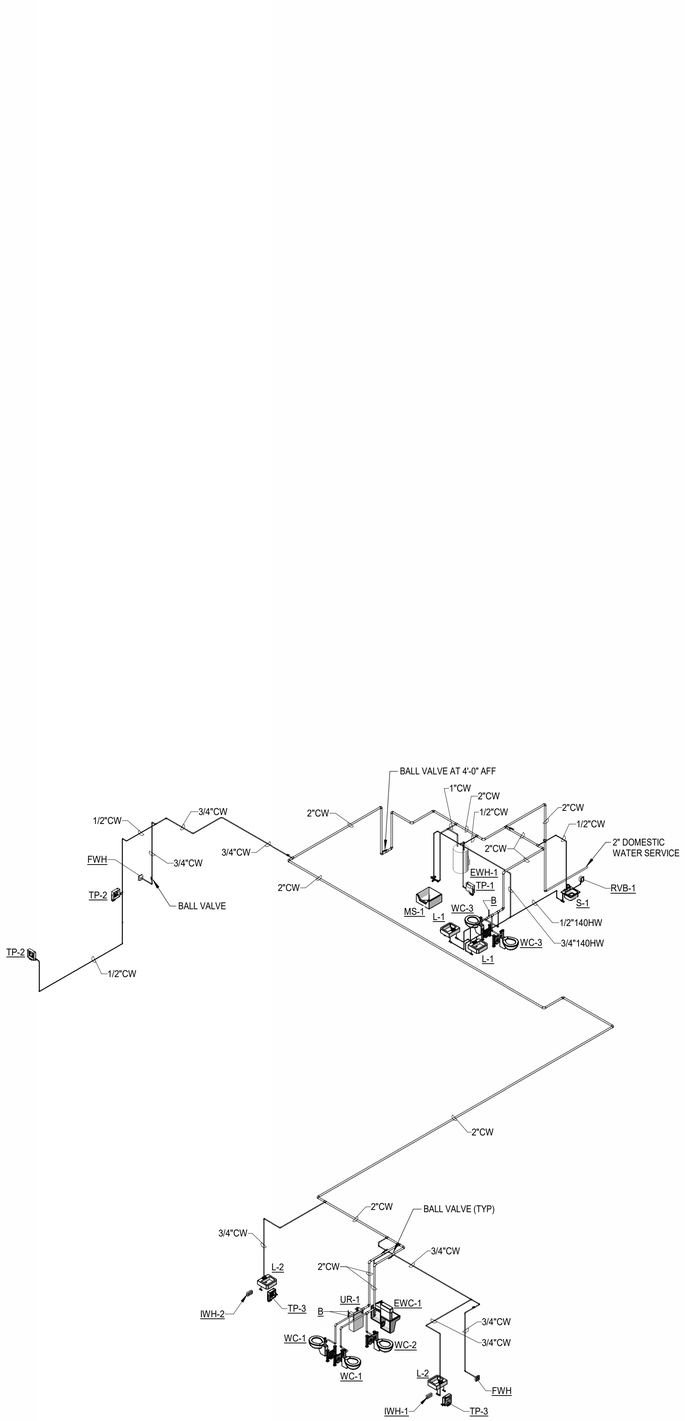
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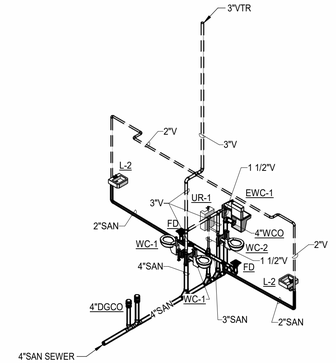
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1 PLUMBING ISOMETRICS - WASTE & VENT

Scale: N.T.S.

2 PLUMBING ISOMETRICS - DOMESTIC WATER

Scale:

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MPS ASC
BOARDROOM
BUILDING

sheet no:

P301

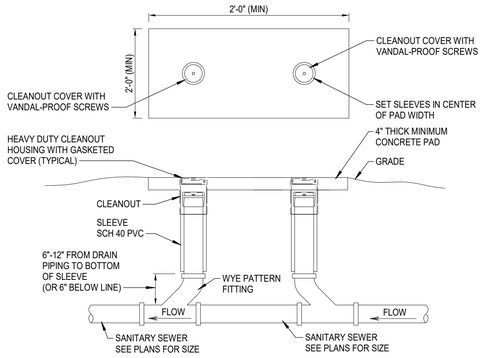
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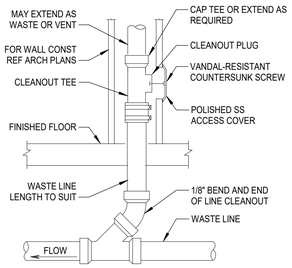
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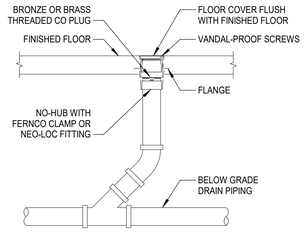
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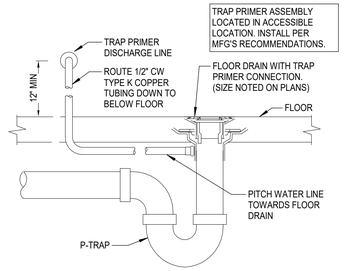
4 DOUBLE EXTERIOR CLEANOUT
Scale: N.T.S.



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



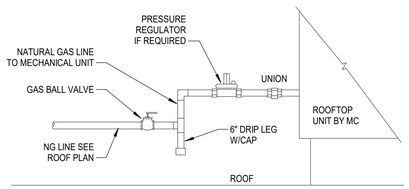
2 INTERIOR CLEANOUT DETAIL
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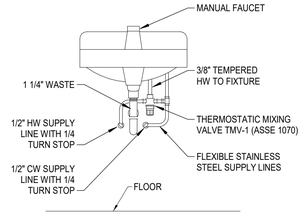
1 FLOOR DRAIN W/ TRAP PRIMER DETAIL
Scale: N.T.S.

NOTES:

1. PROVIDE GAS REGULATOR VENT PROTECTOR. INSTALL REGULATOR PER MANUFACTURER'S RECOMMENDATIONS IF REQUIRED.
2. COORDINATE DISTANCE BETWEEN PRESSURE REGULATOR AND GAS-FIRED EQUIPMENT WITH EQUIPMENT MANUFACTURER. COORDINATE FINAL CONNECTION TO UNIT WITH MC.
3. PROVIDE ROOF PIPE SUPPORTS FOR NATURAL GAS PIPING.
4. PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK IRON. REFER TO SPECIFICATIONS FOR PAINTING PIPING YELLOW.



8 TYPICAL GAS CONNECTION DETAIL
Scale: N.T.S.



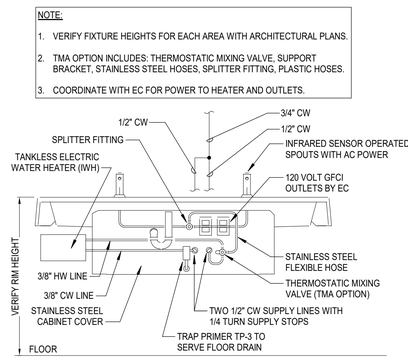
NOTE:

1. ALL EXPOSED PIPE SHALL BE POLISHED CHROME PLATED BRASS AND TRIMMED WITH POLISHED CHROME SHALLOW ESCUTCHEONS.
2. INSTALL TRUEBRO LAV GUARD 2 OR APPROVED EQUAL PIPING COVERS ON ALL PIPING BELOW SINK.
3. VERIFY LAVATORY HEIGHTS FOR EACH AREA WITH ARCHITECTURAL PLANS.

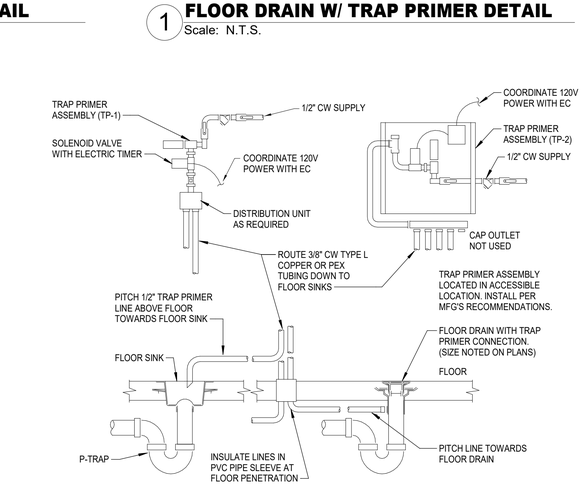
7 POINT OF USE MIXING VALVE DETAIL
Scale: N.T.S.

NOTE:

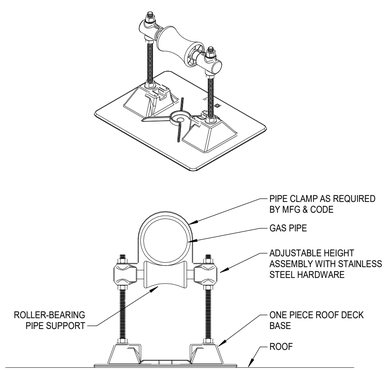
1. VERIFY FIXTURE HEIGHTS FOR EACH AREA WITH ARCHITECTURAL PLANS.
2. TMA OPTION INCLUDES: THERMOSTATIC MIXING VALVE, SUPPORT BRACKET, STAINLESS STEEL HOSES, SPLITTER FITTING, PLASTIC HOSES.
3. COORDINATE WITH EC FOR POWER TO HEATER AND OUTLETS.



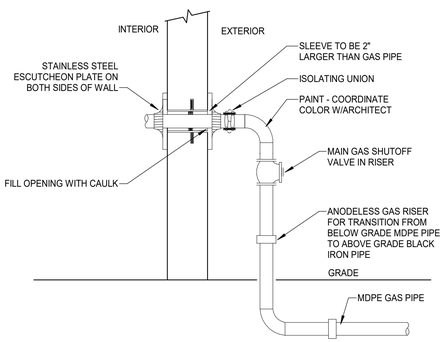
6 TWO STATION LAVATORY DETAIL
Scale: N.T.S.



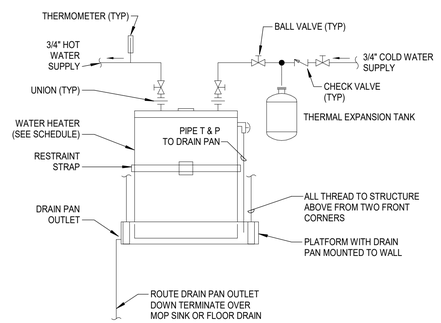
5 ELECTRIC TRAP PRIMER MANIFOLD DETAIL
Scale: N.T.S.



10 ROOF PIPE SUPPORT DETAIL
Scale: N.T.S.



11 GAS ENTRANCE DETAIL
Scale: N.T.S.



9 ELECTRIC TANK WATER HEATER DETAIL
Scale: N.T.S.

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INSTANTANEOUS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN		WH TEMPERATURE RISE PER 1.0 GPM	WH OUTPUT WATER TEMPERATURE	ELECTRICAL CHARACTERISTICS				REMARKS
	MANUFACTURER	MODEL			V	P	KW	MCA	
IWH-1	CHRONOMITE	CM-40L-208	57 °F	104 °F	208	1	8	40	ALL
IWH-2	CHRONOMITE	CM-40L-208	57 °F	104 °F	208	1	8	40	ALL

1. COORDINATE POWER WITH EC.
2. LOCATE HEATER UNDER LAVATORY DECK IN ACCESSIBLE LOCATION.
3. COORDINATE WITH OWNER FOR OUTLET TEMPERATURE.
4. WATER HEATERS TO BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN		STORAGE CAPACITY	KW	WH GALS. PER HR. RECOVERY RATE 70°F RISE	STORED WATER TEMP	ELECTRICAL CHAR.				REMARKS
	MANUFACTURER	MODEL					V	P	MCA	MOCP	
EWH-1	A.O. SMITH	DEL-30	30 GAL	4.5	25	120	208	1	30	35	ALL

1. IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT PROVIDED EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS RELATED TO INCREASED FUSE SIZE / WIRE SIZE.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE TO HEATER, SUPPORT TANK FROM STRUCTURE.
4. PROVIDE WATER HEATER SUPPORT PLATFORM. HOLDRITE MODEL 50-SWHP-W OR EQUAL.
5. COORDINATE POWER WITH EC.
6. SEE DETAIL FOR ADDITIONAL INFORMATION.

WATER HAMMER ARRESTOR SCHEDULE

MARK	WFU QTY.	CHAMBER LENGTH	SWEAT CONNECTION
B	12-32	11 3/4"	3/4"

GAS LOAD TABLE

MARK	INPUT (MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
RTU-1	80 MBH	7"	NONE	LOW PRESSURE	ALL
RTU-2	180 MBH	7"	NONE	LOW PRESSURE	ALL
RTU-3	180 MBH	7"	NONE	LOW PRESSURE	ALL
TOTAL MBH:	440 MBH				

NOTES:

1. INSTALL AND VENT REGULATOR IF REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
3. GAS SYSTEM DESIGN FOR INITIAL METER OUTLET PRESSURE OF LOW PRESSURE WITH PRESSURE DROP OF 3" WATER COLUMN AND TOTAL LENGTH OF 600 FEET.

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	MOUNTING TYPE	CW	HW	SAN	VENT	FIXTURE DESCRIPTION
DRAINAGE FIXTURE (FD, FS, HD, TD)								
3"DGCO	ZURN	Z1474-N-VP	GRADE			3"		CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURE GASKETED COVER WITH CLEANOUT FERRULE WITH ABS PLUG. VANDAL PROOF COVER SCREWS.
3"WCO	ZURN	Z1446-VP	WALL			3"		CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.
4"DGCO	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.
4"FCO	ZURN	ZN1400-BZ-K-VP	FLOOR			4"		FLOOR CLEANOUT: CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG AND ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, 6" ROUND SCORIATED NICKEL BRONZE COVER WITH VANDAL-PROOF SCREWS.
4"WCO	ZURN	Z1446-VP	WALL			4"		CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.
FD	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.
DRINKING FOUNTAIN (EDF)								
EWC-1	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	SIOUX CHIEF	696G1010WF	WALL	1/2"				REFRIGERATOR VALVE BOX: FIRE RATED, ABS WITH WHITE FINISH, 1/2" CONNECTION, INTEGRAL BALL VALVE WITH WATER HAMMER ARRESTOR, 1/4" THREADED OUTLET CONNECTION. ROUGH-IN: COORDINATE INSTALL HEIGHT WITH EQUIPMENT CONNECTION.
HYDRANTS (HB, RH, WH)								
FWH	WOODFORD	B65	WALL	3/4"				FREEZELESS WALL HYDRANT: CONCEALED BOX TYPE WITH LOCKABLE HINGE DOOR, CHROME FINISH, ASSE 1019-B, ANIT-SIPHON VACUUM BREAKER ASSE 1011, 3/4" THREADED HOSE OUTLET, 3/4" INLET. COORDINATE INLET PIPE WITH WALL THICKNESS. ROUGH-IN: COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATIONS AND MOUNTING HEIGHT.
MOP SINK (MS)								
MS-1	FIAT	TSB-3010	FLOOR	1/2"	1/2"	3"	2"	ONE-PIECE, PRECAST TERRAZZO, 24" x 24" x 12" WITH 6" DROP FRONT WITH STAINLESS STEEL THRESHOLD. FAUCET: T&S BRASS B-0665-BSTR. ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER, WATTS LF8A OR APPROVED EQUAL. PROVIDE 832AA HOSE & BRACKET. 889-CC MOP BRACKET, MSG 2424SS WALL GUARDS.
ROOF DRAINAGE FIXTURE (DN, RD, OFD)								
RD	ZURN	ZC100-EA	ROOF			4"		PRIMARY ROOF DRAIN: CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, CAST IRON DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. ROUGH-IN: COORDIANTE INSTALLATION WITH ROOFING CONTRACTOR.
SINKS/LAVATORIES (L, SK)								
L-1	AMERICAN STANDARD	0356.041	WALL	1/2"	1/2"	2"	2"	SINGLE BOWL, COLOR WHITE, WALL MOUNTED, VITREOUS CHINA, 4" CENTER SET FAUCET HOLES. FAUCET: MANUAL, SINGLE HANDLE, CHICAGO FAUCET 420-ABCP, STRAINER & P-TRAP: MCGUIRE HD155A GRID STRAINER, 8902C P-TRAP, SUPPLIES: MCGUIRE LFBV2165CC 1/4 TURN SUPPLY STOPS. INSTALL THERMOSTATIC MIXING VALVE WATTS LFUSG-B-M3 BELOW FIXTURE. ACCESSORIES: TRUEBRO LAV GUARD2 PIPE COVERS. ZURN WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. FIXTURE LOCATED IN STORM SHELTER.
L-2	BRADLEY	VERGE LVRD2	WALL	1/2"	1/2"	2"	2"	2-STATION LAVATORY, NO SOAP DISPENSER, 2 FAUCETS. THERMOSTATIC MIXING ASSEMBLY, STAINLESS STEEL ACCESS PANEL, PVC P-TRAP, AC POWER. ALL AVAILABLE COLORS FOR SELECTION BY ARCHITECT. PROVIDE QUARTER TURN LEAD-FREE, FLEXIBLE SUPPLY LINES AND SUPPLY STOPS. MCGUIRE LFBV2165. FAUCETS: BRADLEY S53-3300 METRO SERIES WITH AC PLUG-IN ADAPTER WITH BATTERY BACKUP, SENSOR OPERATED, CHROME FINISH, FLOW ACTIVATION 0.35 GPM
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 LK406GN0874 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165 SUPPLY STOPS. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) UNDER SINK.
TRAP PRIMER (TP-2)								
TP-1	SIOUX CHIEF	695-ES05	WALL	1/2"				TRAP PRIMER ASSEMBLY: SURFACE MOUNT BOX, ELECTRIC UNIT WITH 24 HOUR ELECTIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & 5 OUTLET, 120 V POWER HARD-WIRED. COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT INSTALL: FIELD VERIFY MOUNTING HEIGHT ON WALL FOR DISCHARGE LINES ROUTED ABOVE CEILING AND DOWN IN WALL TO FLOOR DRAIN.
TP-2	SIOUX CHIEF	695-ES01	WALL	1/2"				TRAP PRIMER: SURFACE MOUNT, ELECTRIC UNIT WITH 24 HOUR ELECTIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & OUTLET, 120 V POWER HARD-WIRED. COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT INSTALL: PROVIDE DISTRIBUTION UNIT TO SERVE TWO FLOOR DRAINS.
TP-3	PPP	PRO1-ULP500	WALL	1/2"				TRAP PRIMER: UNDER LAVATORY, CW SHUT-OFF VALVE, 1/2" TRAP PRIMER LINE, 3/8" OUTLET TO FIXTURE. LOCATED TRAP PRIMER OUTLET MINIUM OF 12" ABOVE FLOOR. INSTALL: MOUNT IN LAVATORY (L-2) CABINET, SERVES ONE FLOOR DRAIN.
URINAL (U)								
UR-1	AMERICAN STANDARD	6560.001	WALL	3/4"		2"	2"	FIXTURE COLOR WHITE, WALL MOUNTED, VITREOUS CHINA, TOP SPUD. FLUSH VALVE: SLOAN ROYAL 186-ESS-0.5-CP-TMO-24V (0.5 GPF) SENSOR OPERATED, HARDWIRED, TRUE MECHANICAL OVERRIDE, CHROME FINISH. ZURN NARROW WALL CARRIER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS. ADA INSTALLATION. COORDINATE POWER FROM TRANSFORMER SERVING WATER CLOSET.
WATER CLOSET (WC)								
WC-1	AMERICAN STANDARD	2257.101	WALL	1 1/4"		3"	2"	FIXTURE COLOR WHITE, WALL MOUNTED, VITREOUS CHINA, TOP SPUD. ADA INSTALLATION. FLUSH VALVE: SLOAN ROYAL 111-ESS-1.6-CP-TMO-HW-24V, SENSOR OPERATED, HARDWIRED, CHROME FINISH, TRUE MECHANICAL OVERRIDE. TRANSFORMER SLOAN EL-154. SEAT: BEMIS 1655SSCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL VERTICAL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION. COORDINATE POWER WITH EC.
WC-2	AMERICAN STANDARD	2257.101	WALL	1 1/4"		3"	2"	FIXTURE COLOR WHITE, WALL MOUNTED, VITREOUS CHINA, TOP SPUD. FLUSH VALVE: SLOAN ROYAL 111-ESS-1.6-CP-TMO-HW-24V, SENSOR OPERATED, HARDWIRED, CHROME FINISH, TRUE MECHANICAL OVERRIDE. TRANSFORMER SLOAN EL-154. SEAT: BEMIS 1655SSCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL VERTICAL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. COORDINATE POWER WITH EC.
WC-3	AMERICAN STANDARD	2257.101	WALL	1 1/4"		3"	2"	FIXTURE COLOR WHITE, WALL MOUNTED, VITREOUS CHINA, TOP SPUD. ADA INSTALLATION. FLUSH VALVE: SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED, CHROME FINISH. SEAT: BEMIS 1655SSCT 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. FIXTURE LOCATED IN STORM SHELTER.

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