

C:\pwworkdir\0513053\0609600P-001.dwg GA-02 7/27/2026 3:59 PM RYAKIM 25.0s (LMS Tech)

ABBREVIATIONS				LEGEND				GENERAL PLUMBING NOTES				PLUMBING FIXTURE CONNECTION SCHEDULE							
AFF ABOVE FINISHED FLOOR CFH CUBIC FEET PER HOUR CO CLEAN OUT CP CIRCULATING PUMP DS DRENCH SHOWER ES/EW EMERGENCY SHOWER AND EYE WASH ET EXPANSION TANK EWC ELECTRIC WATER COOLER FCO FLOOR CLEAN OUT FD FLOOR DRAIN FPW FIRE PROTECTION WATER GPM GALLONS PER MINUTE HB HOSE BIBB HWR HOT WATER RETURN HWS HOT WATER SUPPLY LAV LAVATORY MSB MOP SERVICE BASIN NG NATURAL GAS OST OVERFLOW STORM WATER PEW PLANT EFFLUENT WATER PW POTABLE WATER RPBFP REDUCED PRESSURE BACK FLOW PREVENTER SD SANITARY DRAIN SH SHOWER SK SINK ST STORM WATER TMV THERMOSTATIC MIXING VALVE TW TEMPERED WATER U URINAL V VENT VTR VENT THROUGH ROOF WC WATER CLOSET WCO WALL CLEAN OUT WH WATER HEATER				POTABLE COLD WATER POTABLE HOT WATER POTABLE HOT CIRCULATION WATER NG NATURAL GAS ⊗ FLOOR CLEANOUT — WALL CLEANOUT ↗ ↖ BUTTERFLY VALVE ⋈ GLOBE VALVE ⋈ BALL VALVE ⏏ BACKFLOW PREVENTER SD SANITARY DRAIN V VENT PIPING ↗ ↖ CHECK VALVE C DOWN PIPE C VALVE IN RISER ⊠ FLOOR DRAIN				1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2023 OREGON PLUMBING SPECIALITY CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR. 2. THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. SUBCONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION. 3. SUBCONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE MWHC 48 HOURS IN ADVANCE. 4. ALL POTABLE WATER, PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD AND WITHIN WALLS UNLESS OTHERWISE NOTED. 5. ALL SANITARY WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED. 6. SUBCONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL LAB PLUMBING RELATED ITEMS. 7. THE SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. SUBCONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING. 8. ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS. 9. ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. 10. THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR. 11. THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. 12. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS. 13. PVC DRAIN & VENT PIPING SHALL NOT BE PERMITTED TO BE INSTALLED IN THE RETURN AIR PLENUMS.				ID	DESCRIPTION	WASTE	VENT	CW	HW	TW	
												WC-1	FLUSH VALVE WATER CLOSET	3"	1-1/2"	1"	-	-	-
												LAV-1	LAVATORY	2"	1-1/2"	3/4"	3/4"	-	-
												FD-1	FLOOR DRAIN	3"	1-1/2"	-	-	-	-
												SK-1	SINK	2"	1-1/2"	3/4"	3/4"	-	-
												SK-2	KITCHEN SINK	2"	1-1/2"	3/4"	3/4"	-	-
												DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	3/4"	-	-	-
												HB-1/HB-2	HOSE BIBB	-	-	3/4"	-	-	-
												ESEW-1	EMERGENCY SHOWER AND EYEWASH STATION	-	-	-	-	-	1 1/4"

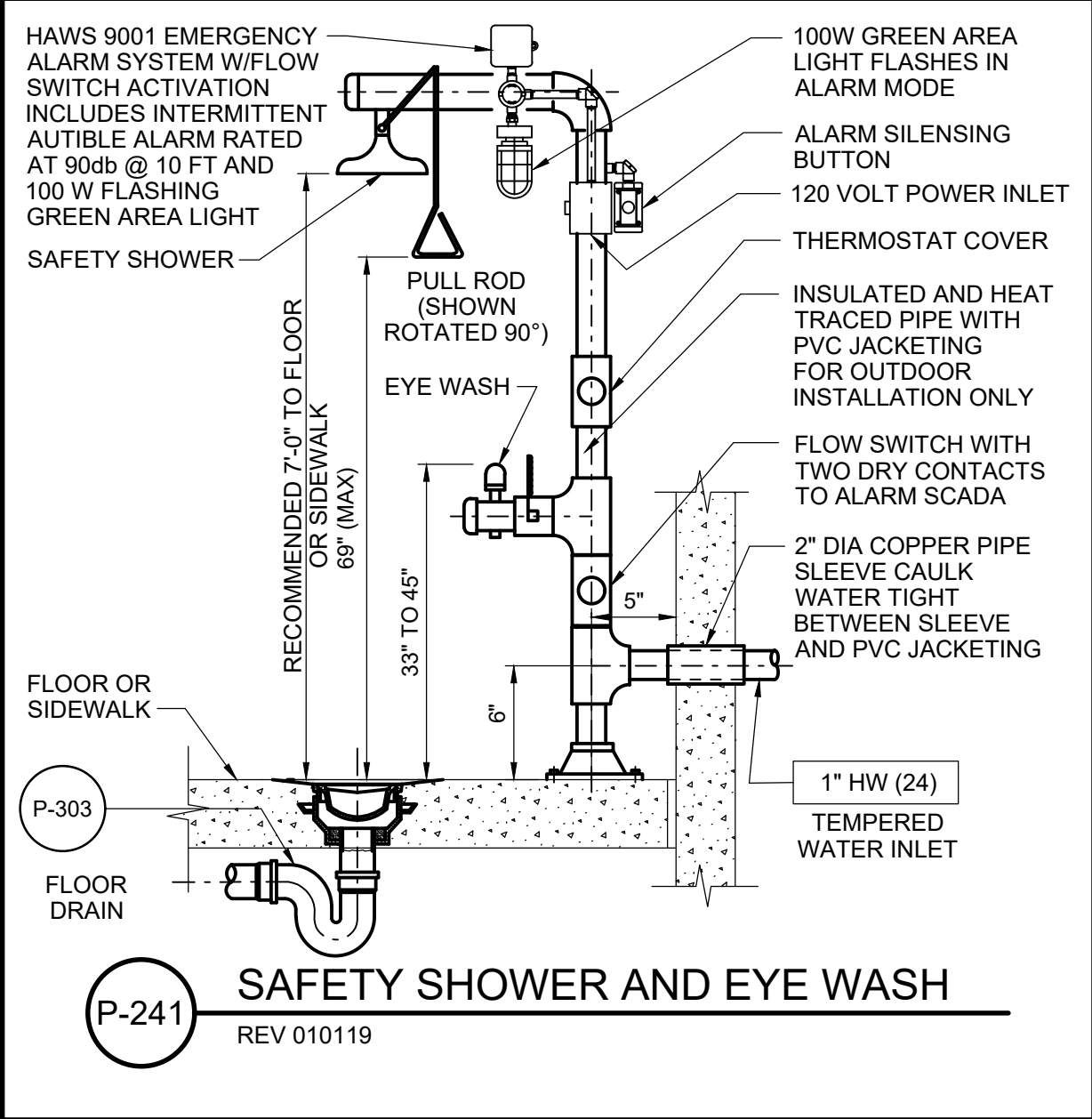
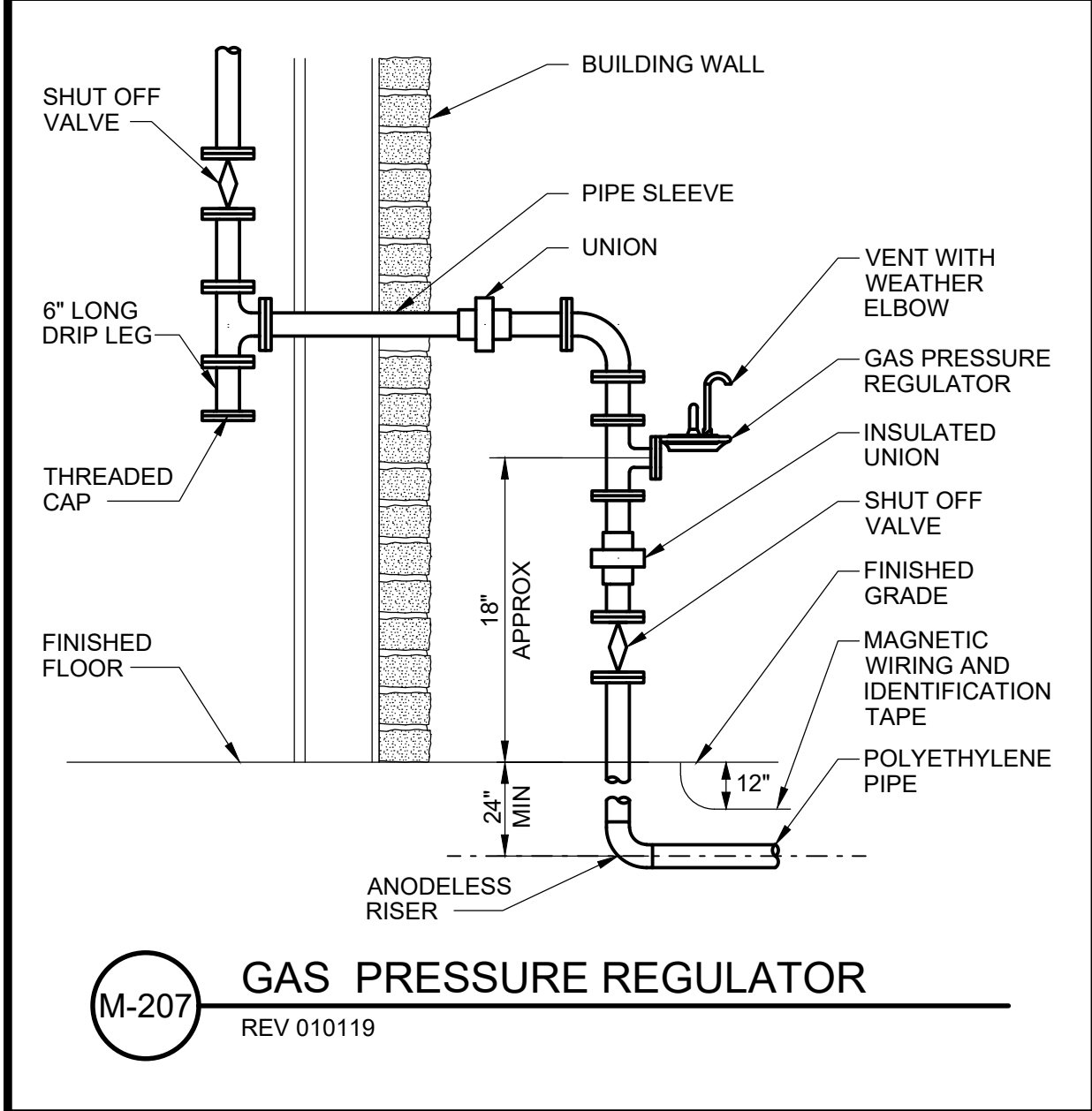
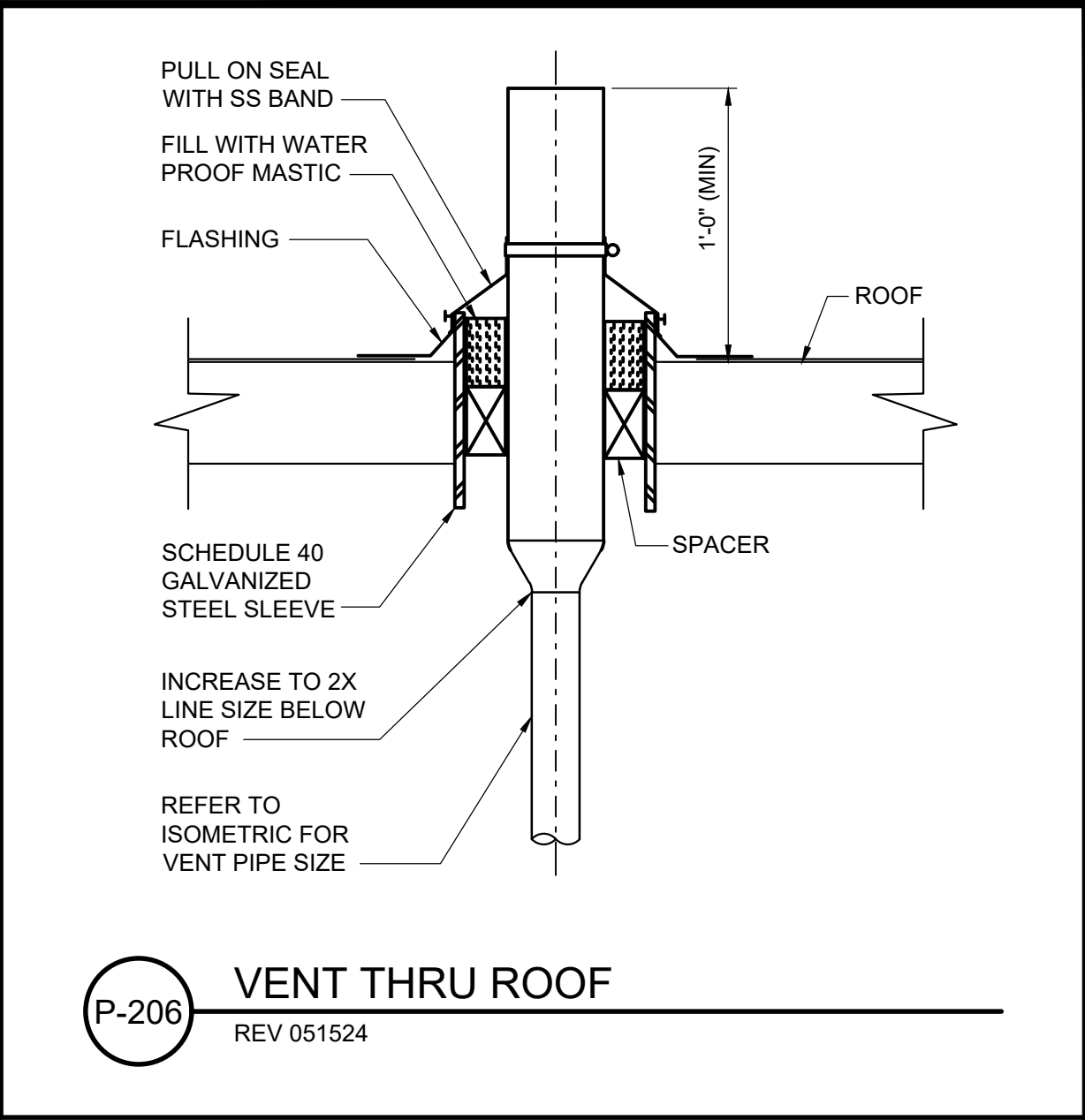
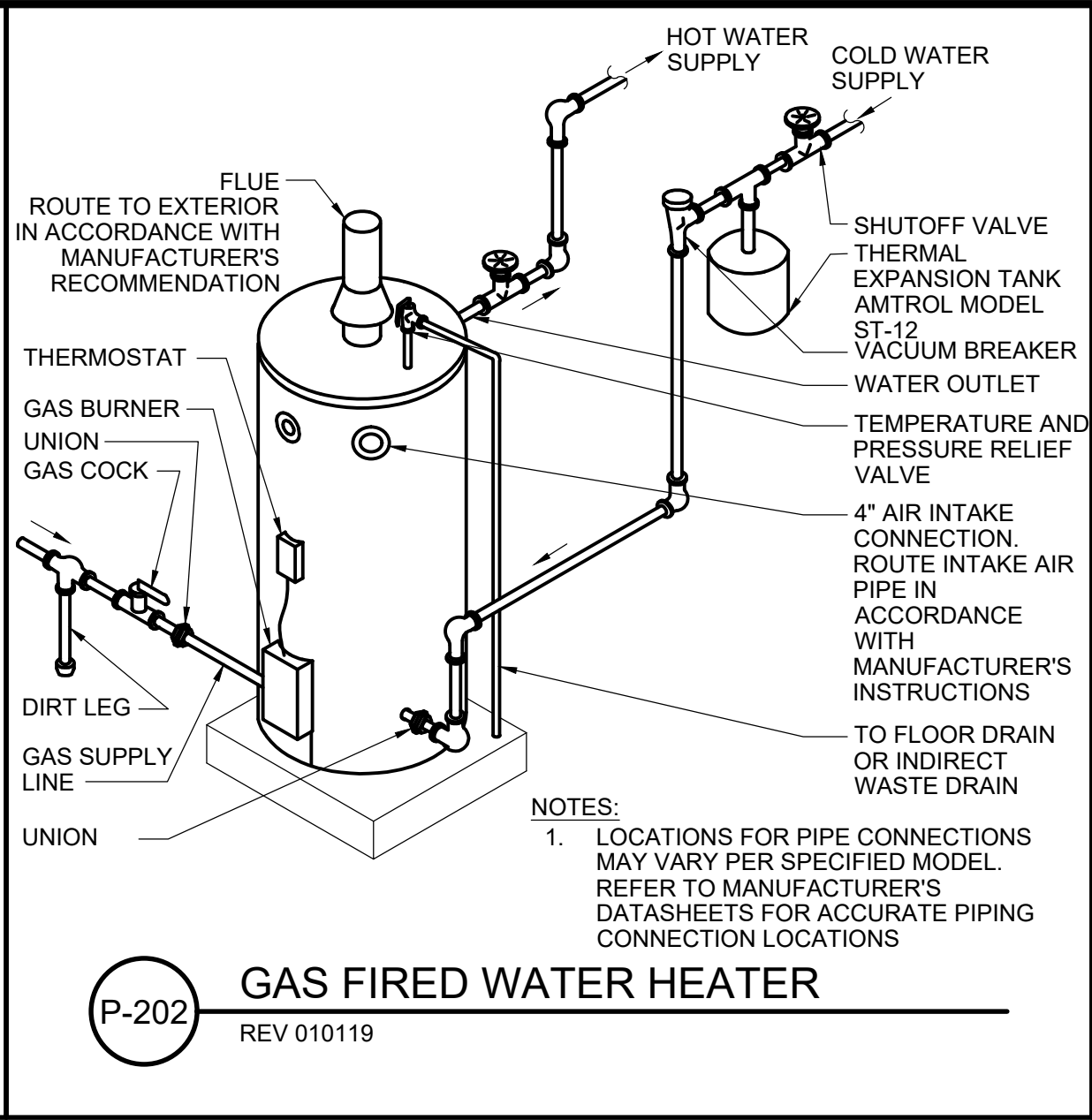
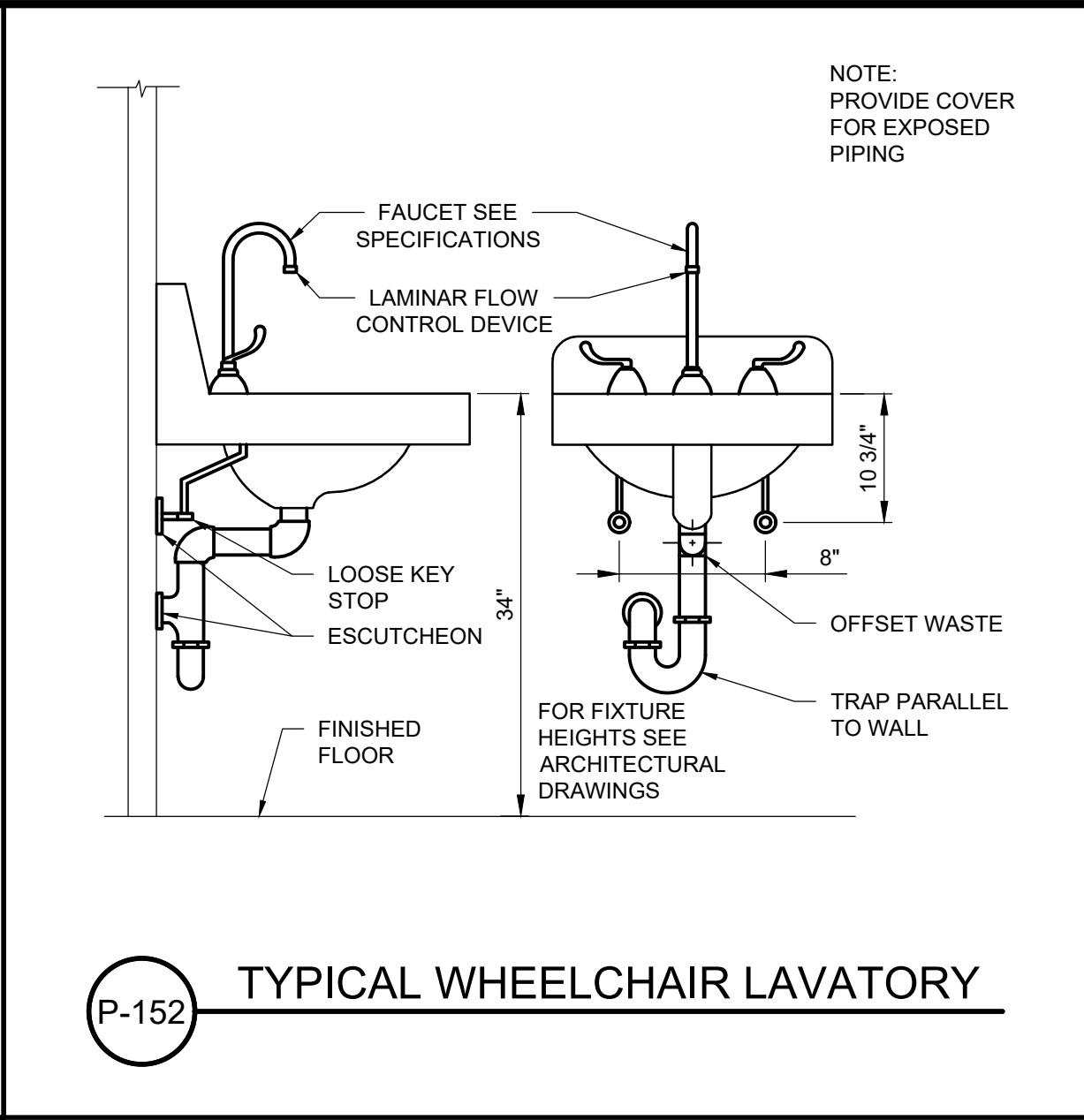
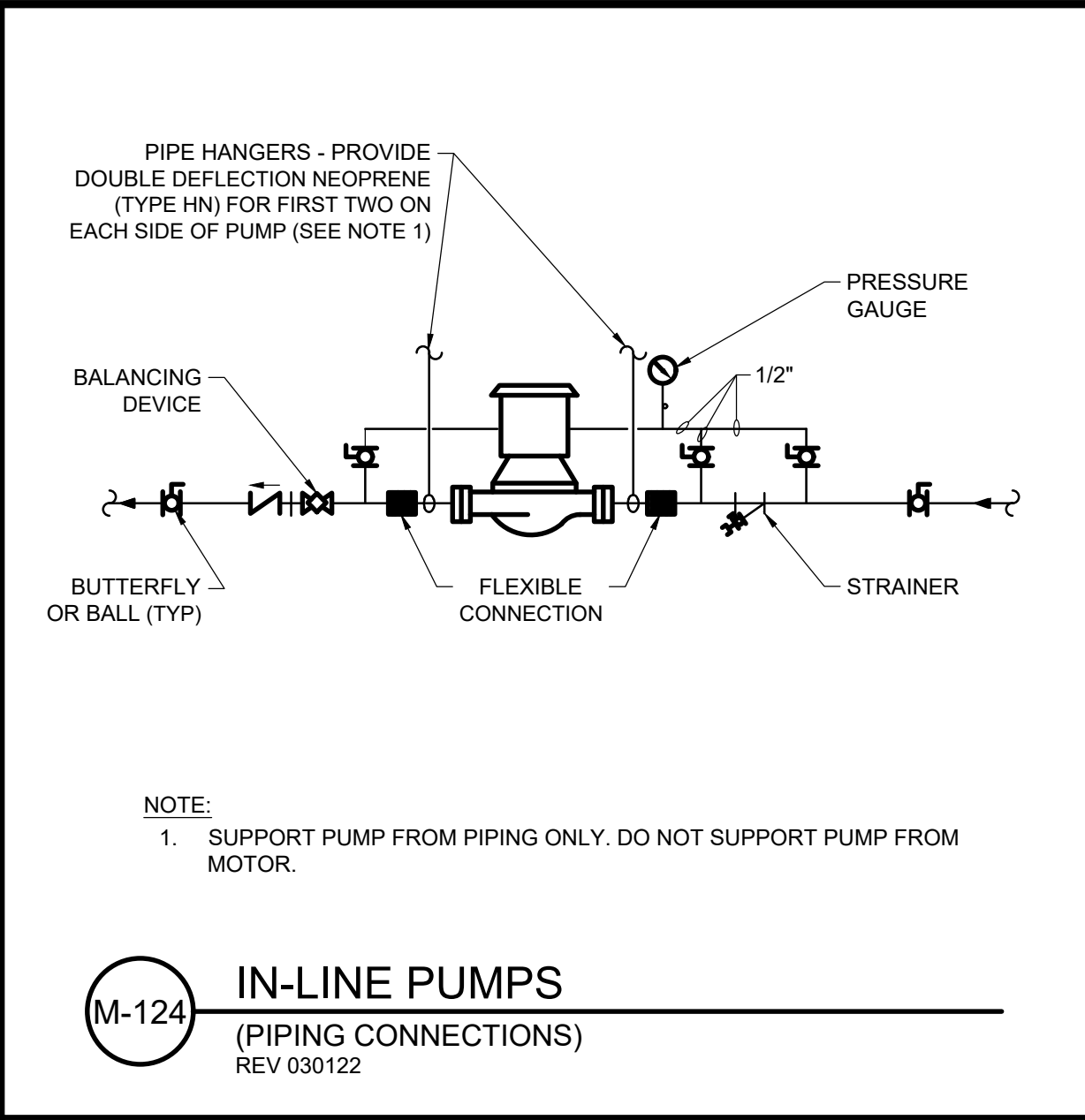
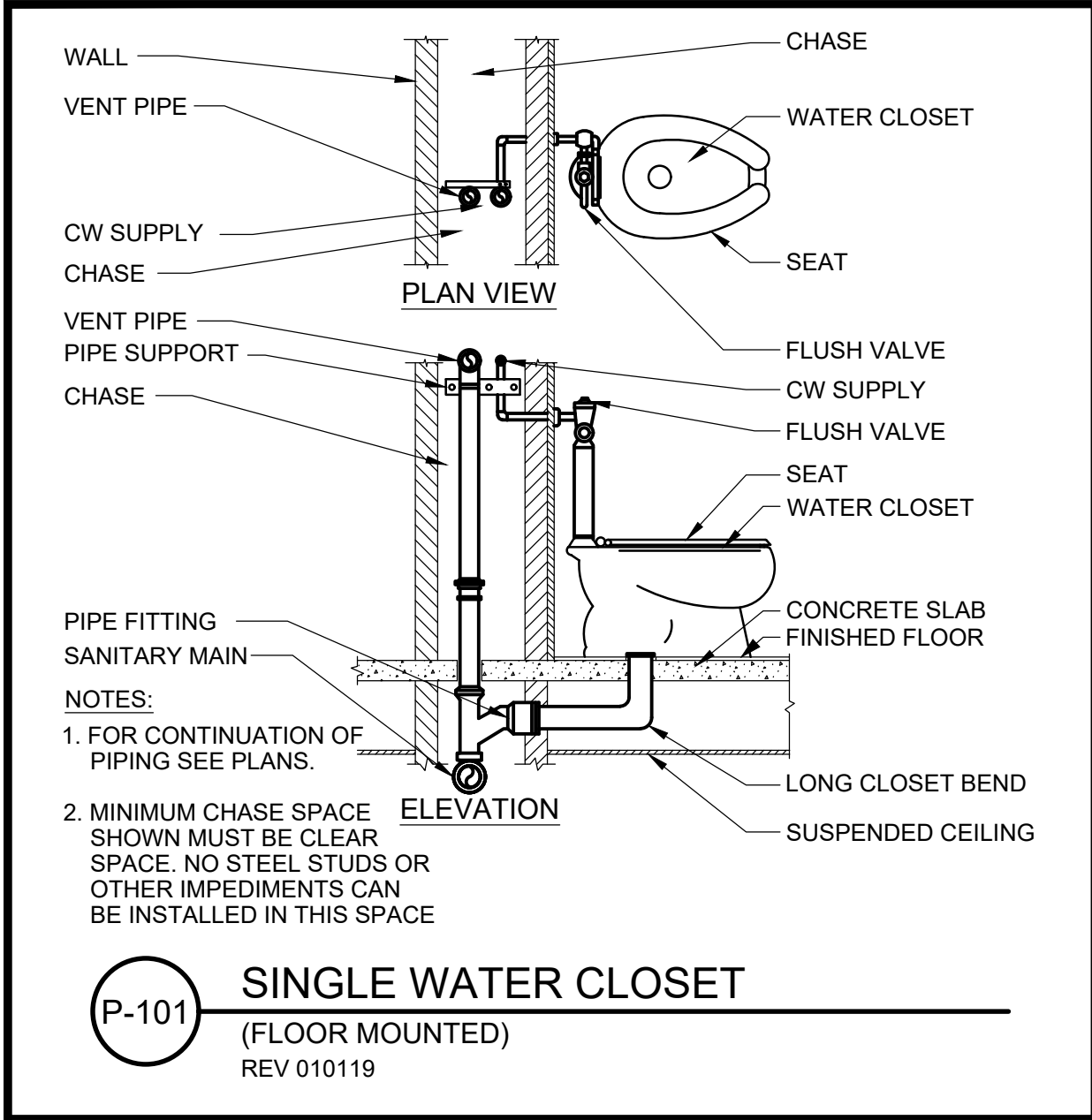
PIPING MATERIAL SCHEDULE												
GROUP NO	PIPE		FITTINGS		VALVES, 6" AND SMALLER							
CS09	STEEL, ASTM A53, SCH 40, WELDED, BLACK		2 1/2" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, BLACK, 150 PSI. 3" AND LARGER, STEEL, ASME B16.9, BUTT-WELDED.		ECCENTRIC PLUG: DEZURIK PEC, CAST IRON, OR MILLIKEN 603E. CHECK: CRANE 336E OR MILWAUKEE #544. BALL: JAMESBURY FIG 351 OR WATTS #B-6080.							
CU01	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED.		WROUGHT COPPER OR CAST BRONZE, ASME B16.22, SILVER SOLDER JOINT, 150 PSI, OR COMPRESSION FITTINGS.		BRONZE, SILVER SOLDER JOINT, GLOBE: CRANE #1310 OR STOCKHAM B-14T. CHECK: CRANE #1342 OR 36M, OR STOCKHAM B-309Y OR B-345. GATE: CRANE #426 OR STOCKHAM B-104 OR B-105.							
PV08	POLYVINYL CHLORIDE (PVC), GRAVITY DWV PIPE, ASTM D2665/D1785, SCH 40, IPS DIAMETER (1/4" TO 24").		PVC DWV, ASTM D2665.		PVC, BALL DIAPHRAGM, BUTTERFLY, OR LIFT CHECK: NIBCO/CHEMTROL, MCCANNA-MARPAC, OR GEORGE FISCHER SLOANE.							

GAS FIRED WATER HEATER													
EQUIPMENT TAG	SERVICE	FUEL TYPE	STORED WATER TEMPERATURE	STORAGE CAPACITY (GAL)	INLET GAS PRESSURE (IN WC)		GAS INPUT	THERMAL EFFICIENCY	RECOVERY RATE AT 100 F (GAL/HR)	WEIGHT (LBS)	MANUFACTURER AND MODEL	OPTONS AND ACCESSORIES	
					MIN	MAX							
WH-01	RESTROOM FIXTURES AND EMERGENCY SHOWER	NATURAL GAS	140 DEG F	119	4	10.4	251000	97%	289	855	AO SMITH, BTH-251(A)	1 - 8	
OPTIONS AND ACCESSORIES: 1. MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI 2. ADAPTIVE GAS CONTROLLED MODULTING GAS BURNER 3. ASME RATED T&P RELIEF VALVE 4. APPROVED FOR 0" CLEARANCE TO COMBUSTIBLES 5. CONCENTRIC VENT KIT 6. BMS GATEWAY DEVICE 7. CONDENSATE NEUTRALIZATION KIT 8. SUITABLE FOR POWER DIRECT VENTING WITH 4" PVC PIPE													

CIRCULATING PUMP SCHEDULE									
MARK	DESCRIPTION	MAX FLOW	TDH (FT)	MOTOR			MANUFACTURER AND MODEL		NOTES
		GPM		WATTS	RPM	V/PH/HZ			
CP-01	RECIRCULATING PUMP	5	6	6	0-70	115/1/60	BELL AND GOSSETT ECOCIRC +20-18		1 - 4
NOTES: 1. STAINLESS STEEL, UNION TYPE. 2. 0-10V INPUT 3. BLUETOOTH COMMUNICATION 4. DIGITAL DISPLAY									

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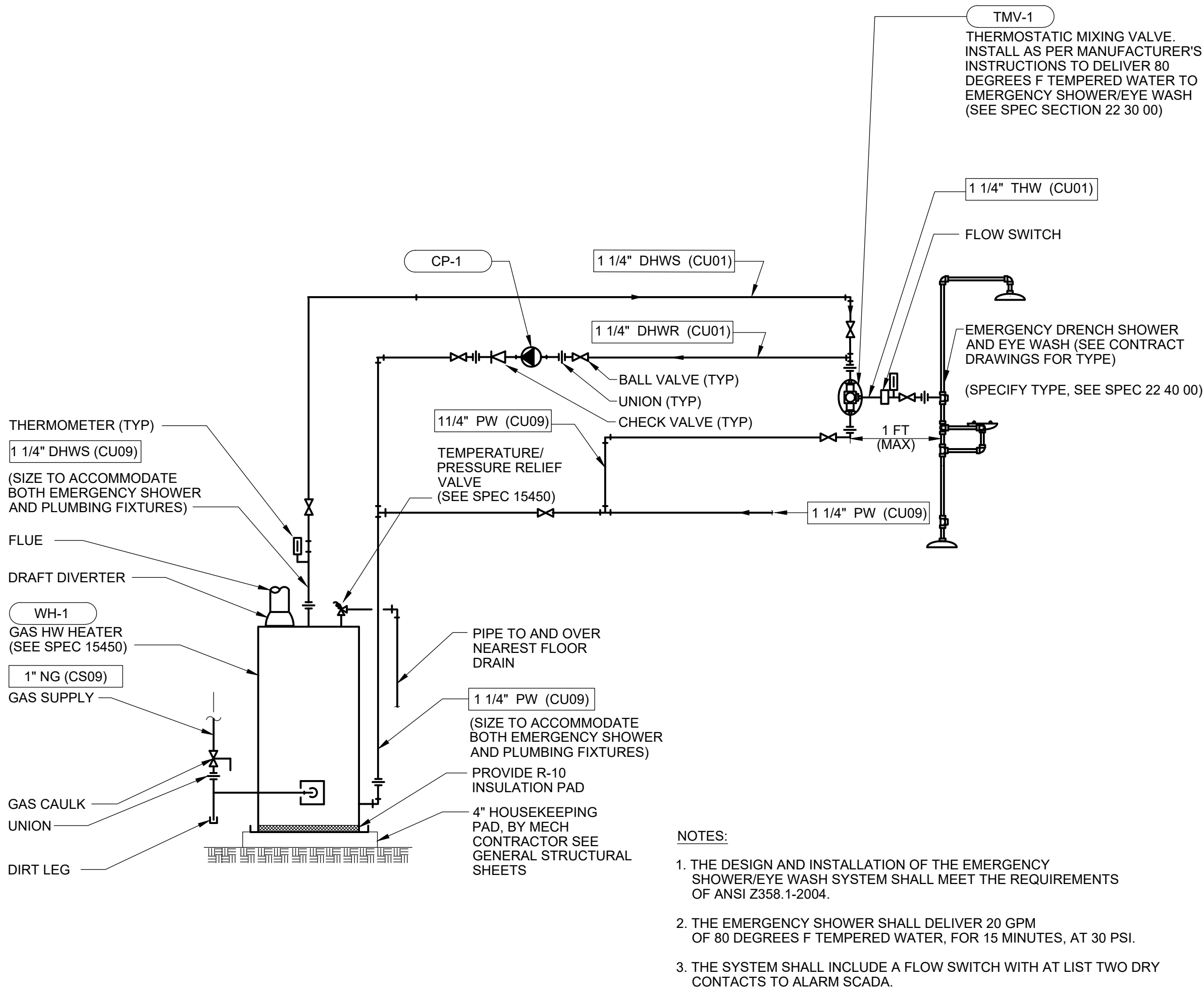
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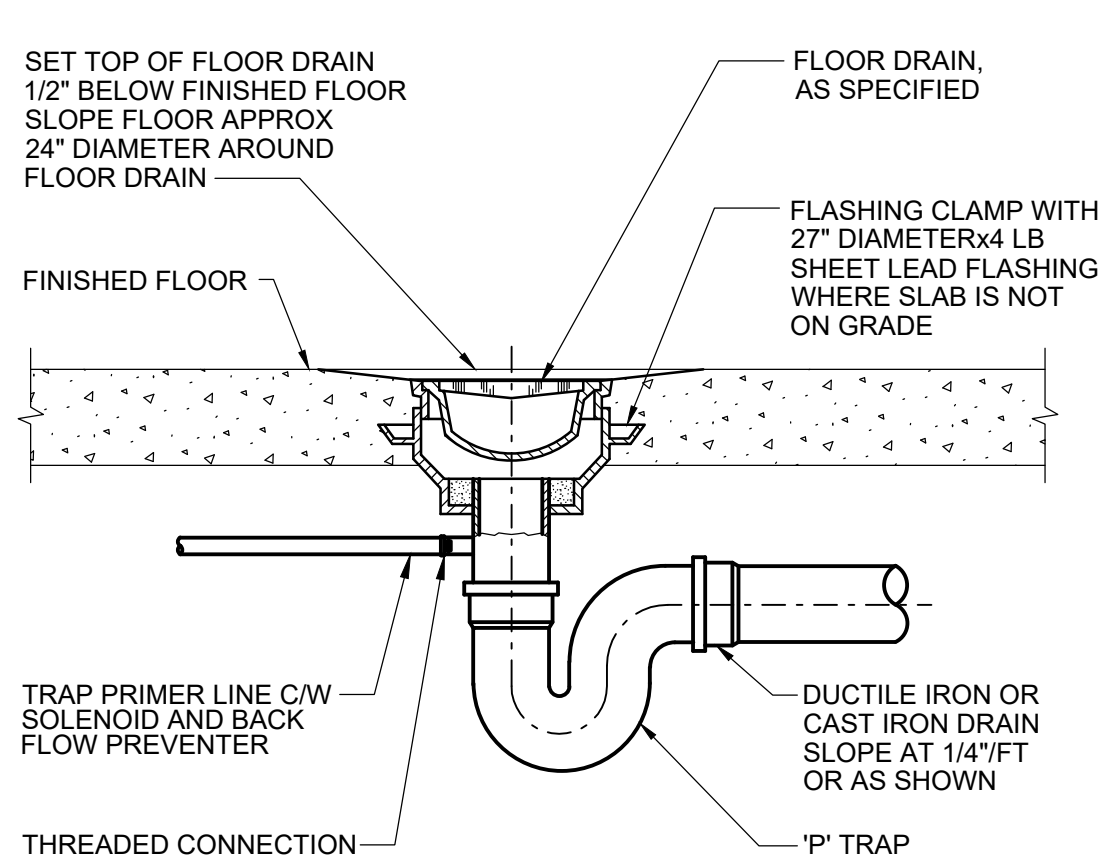
PLUMBING		
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PROJECT NO.:	21-3045	SCALE:
DATE:	AUGUST 2026	

SHEET
P-002

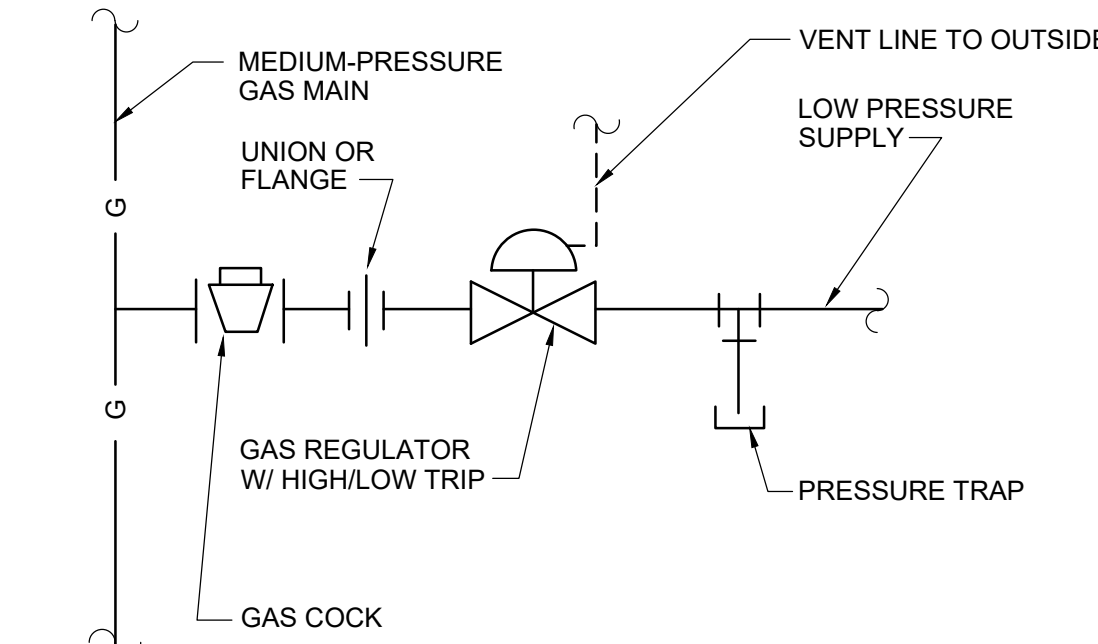
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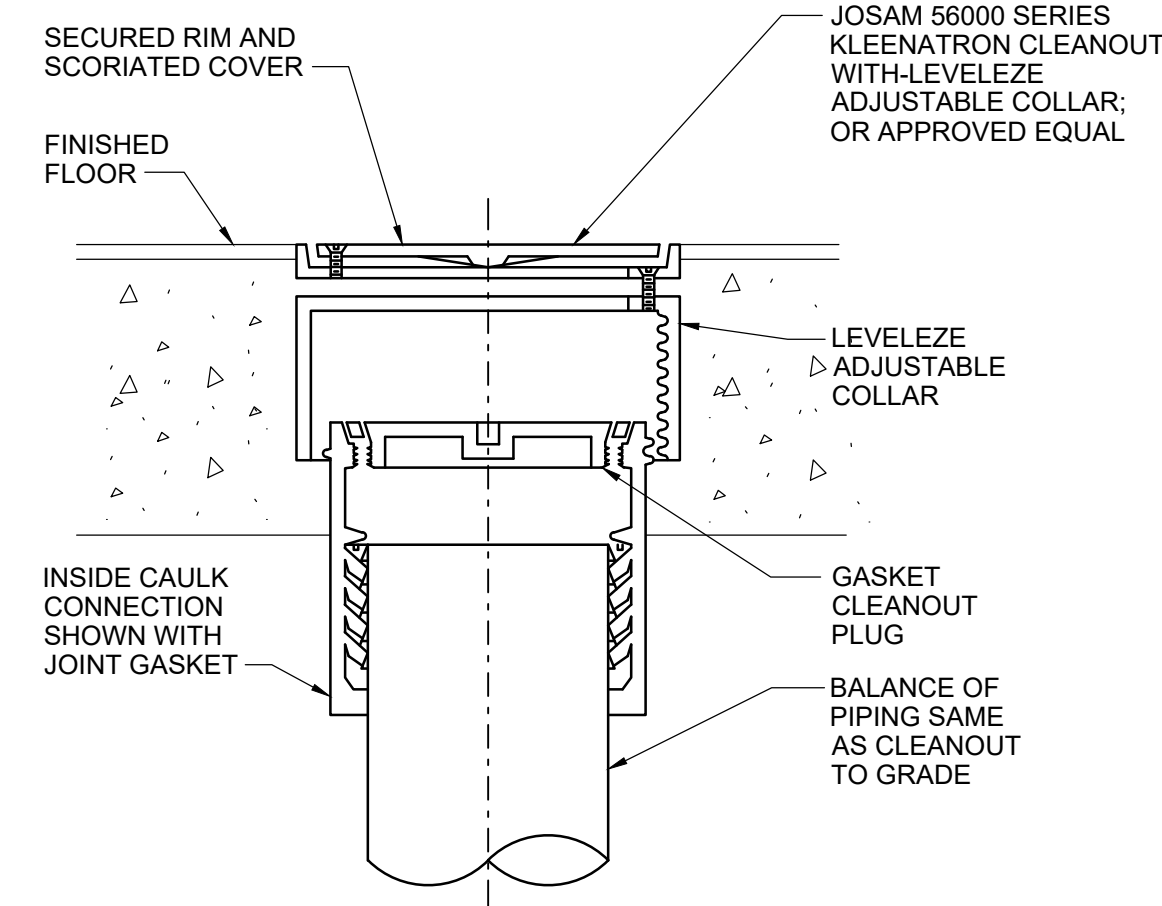
P-244 WATER TEMPERING SYSTEM
(FOR EMERGENCY SHOWER)



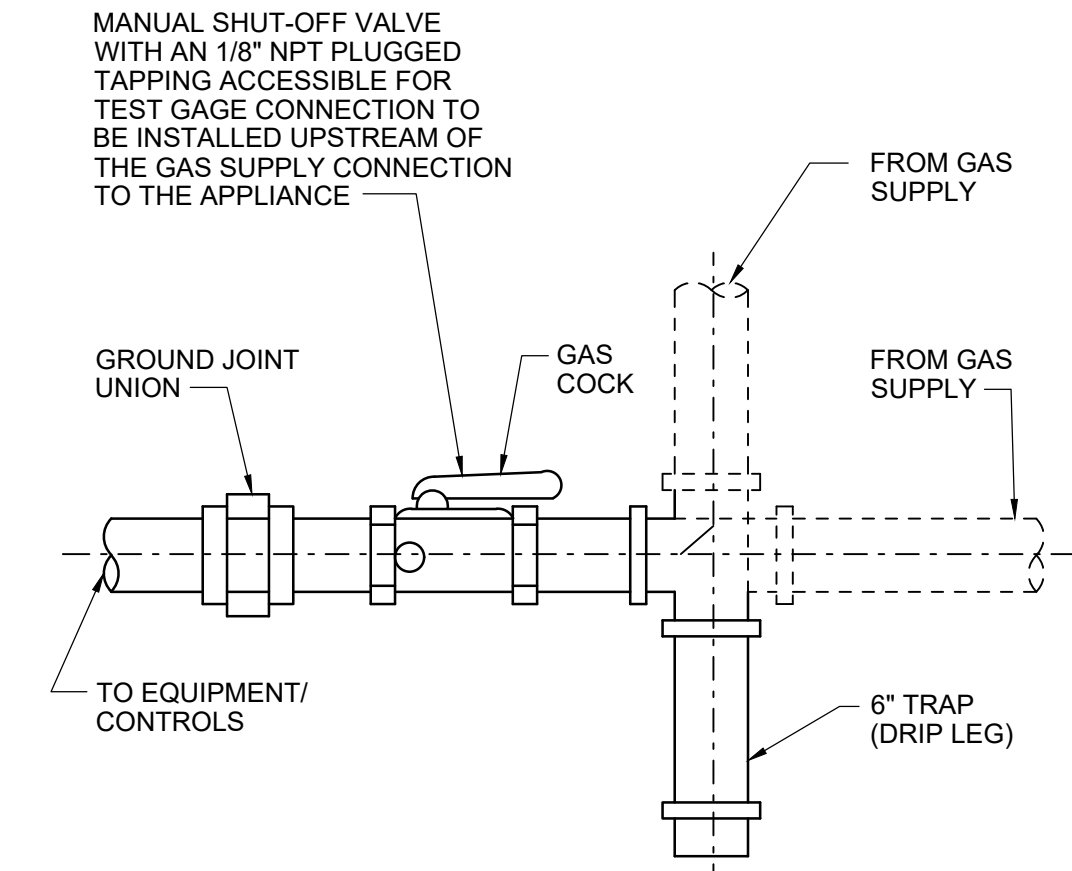
P-303 FLOOR DRAIN
REV 022924



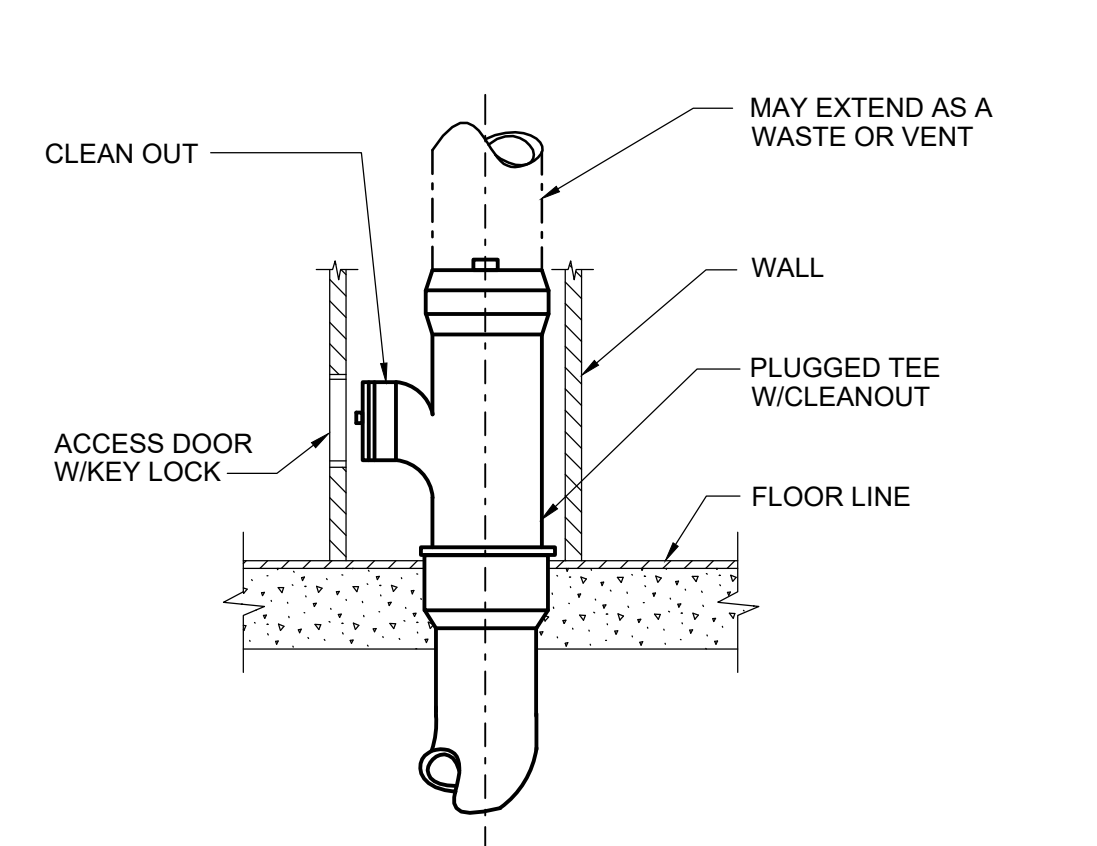
P-410 GAS REGULATOR
(MEDIUM TO LOW PRESSURE)
REV 010119



P-310 FLOOR CLEANOUT
(IN FINISHED FLOOR)
REV 010119

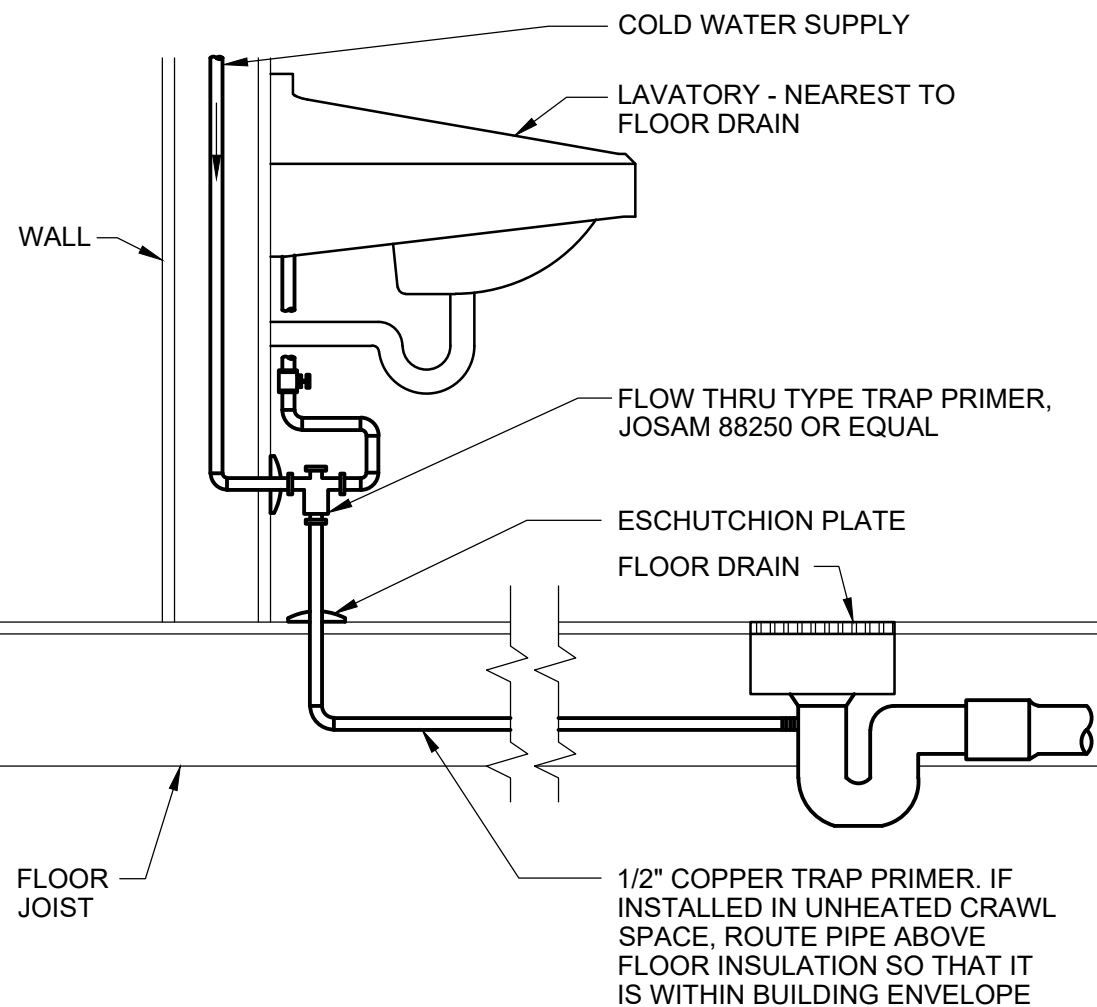


P-411 GAS CONNECTION TO EQUIPMENT
DETAIL
REV 010119



NOTE:
BALANCE OF PIPING SAME
AS CLEANOUT TO GRADE.

P-315 WALL CLEANOUT DETAIL
REV 010119



P-510 FLOOR DRAIN TRAP PRIMER
REV 010119

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REGISTERED PROFESSIONAL ENGINEER
99804PE
OREGON
MAY 10, 2022
SHYANI ANOL SAPYARIGHT
EXPIRES: 06/30/2028

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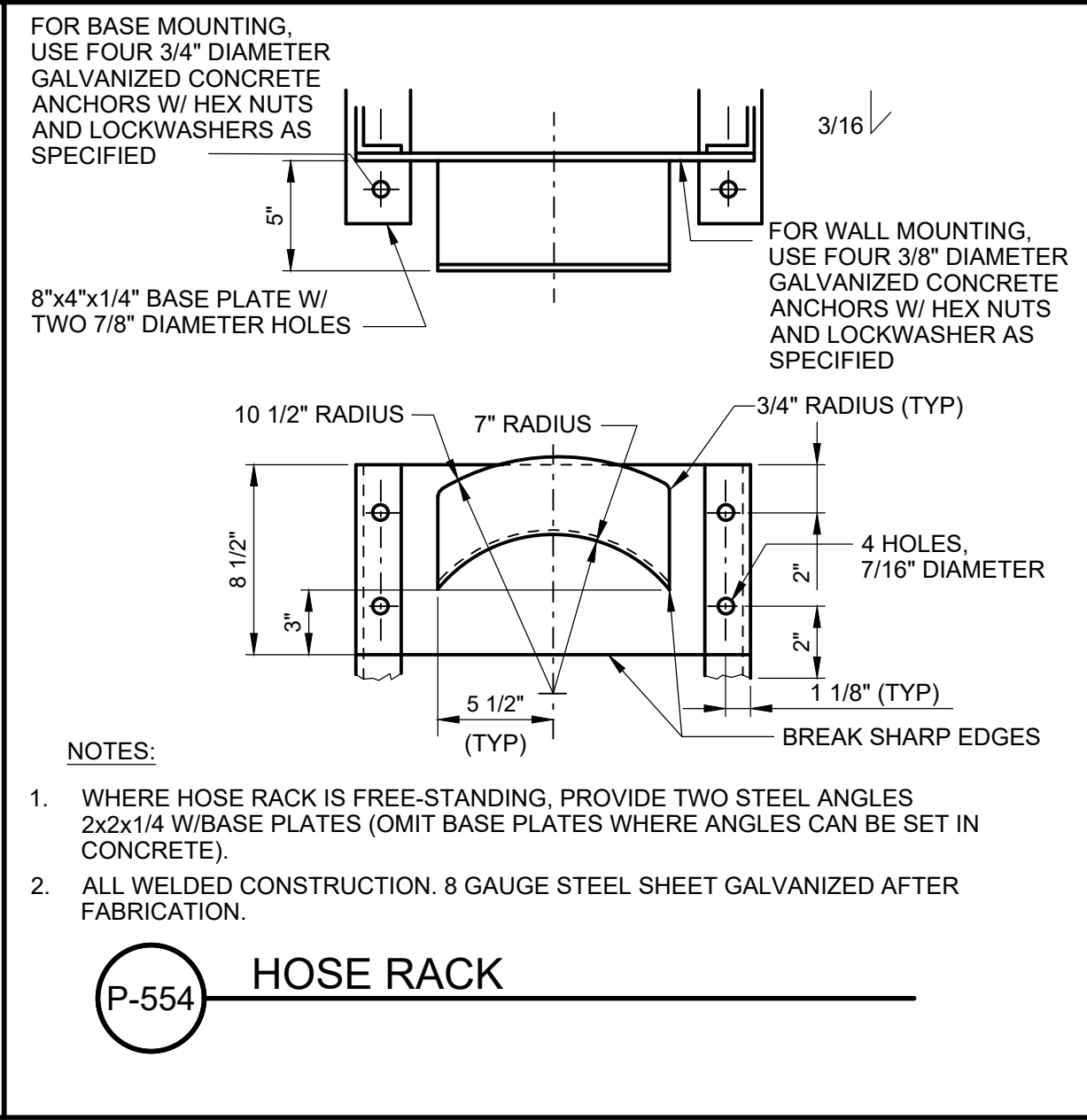
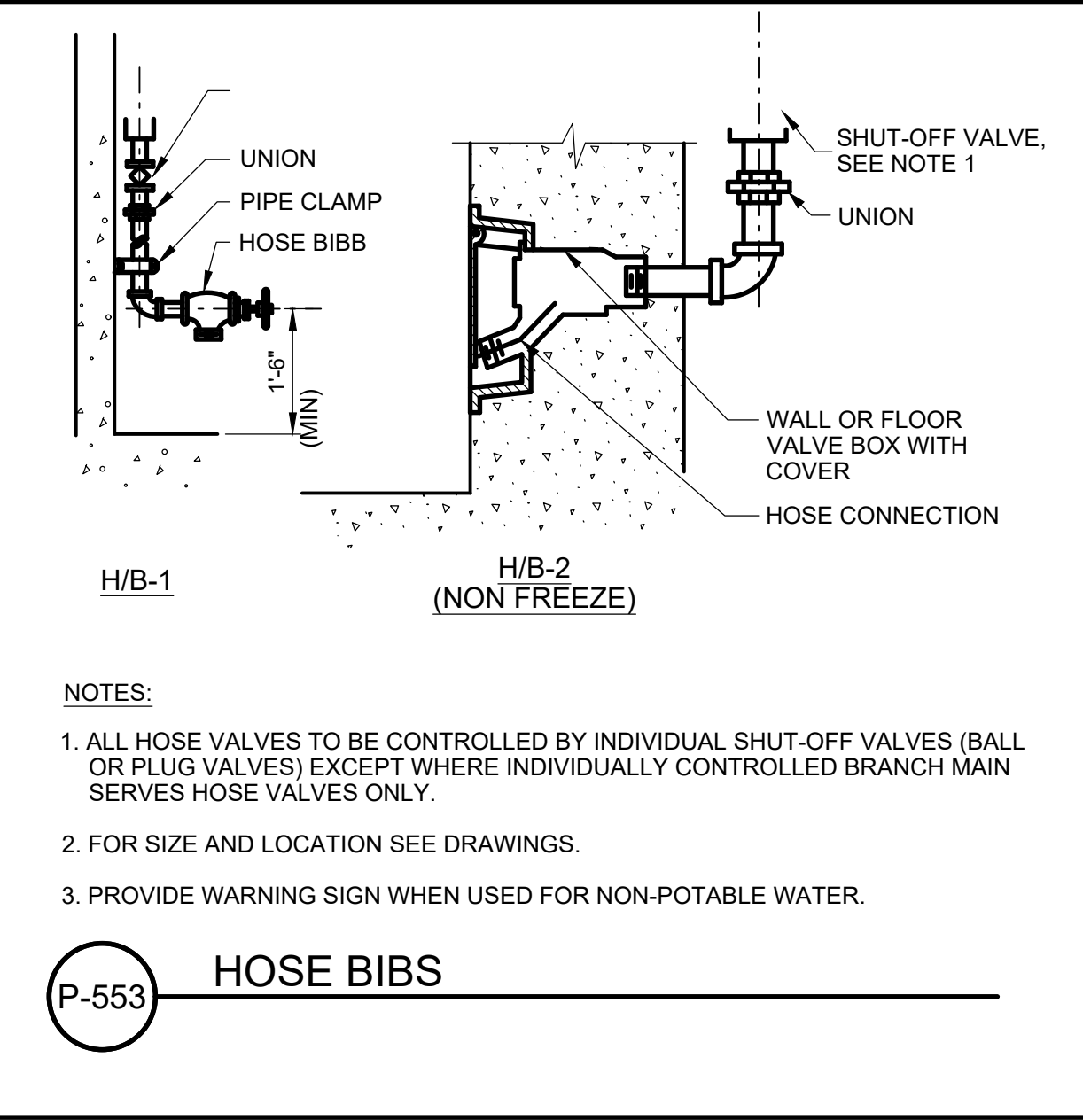
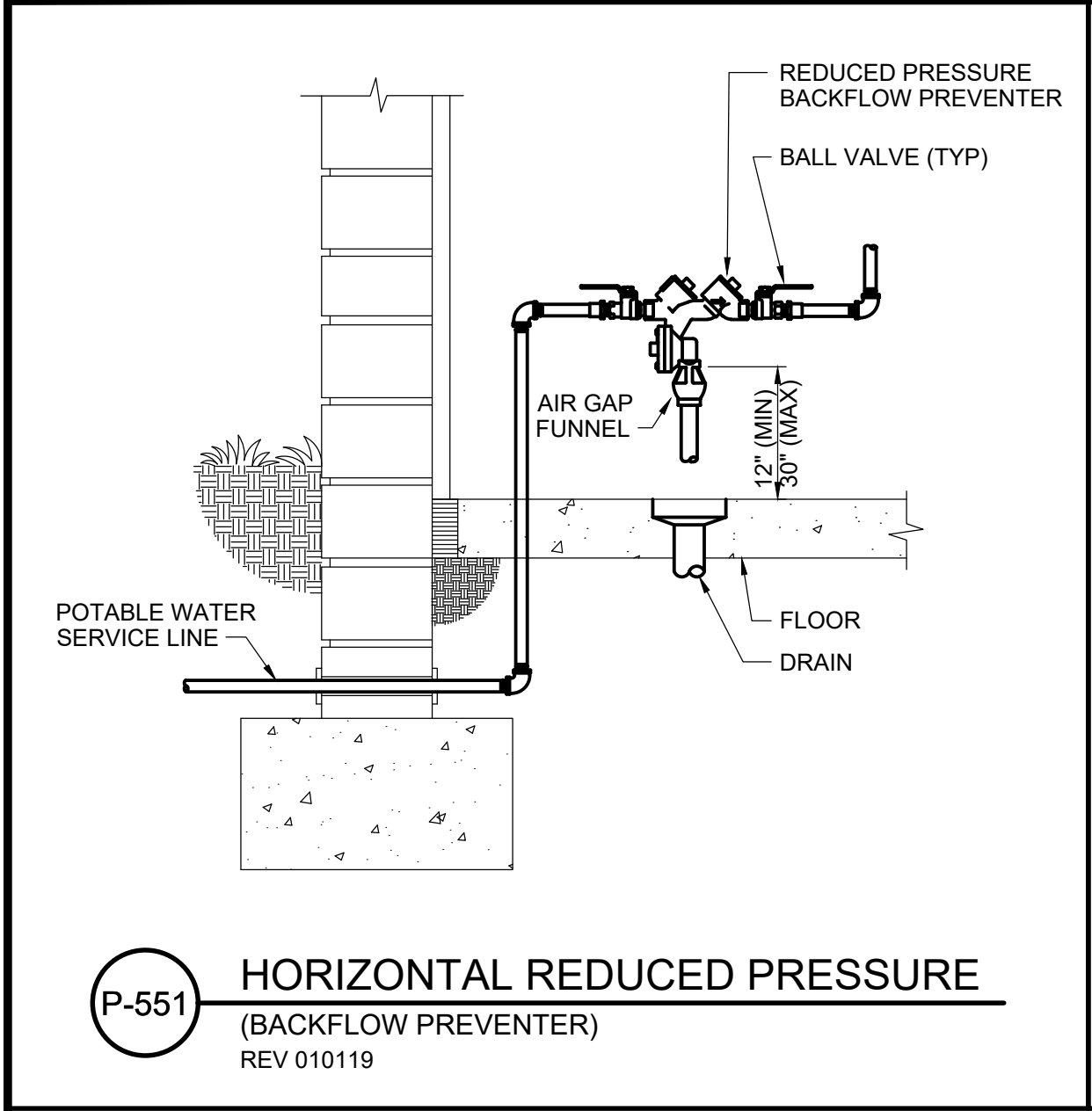
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Stantec

South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

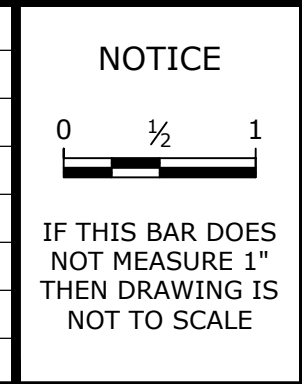
PLUMBING
PLUMBING DETAILS - II
PROJECT NO.: 21-3045 SCALE: DATE: AUGUST 2026

SHEET
P-003

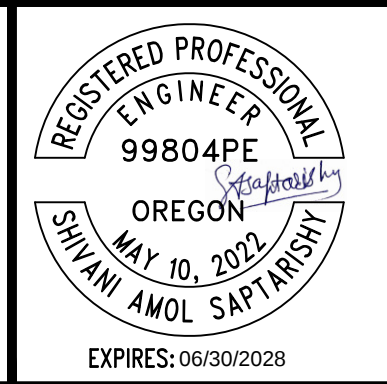
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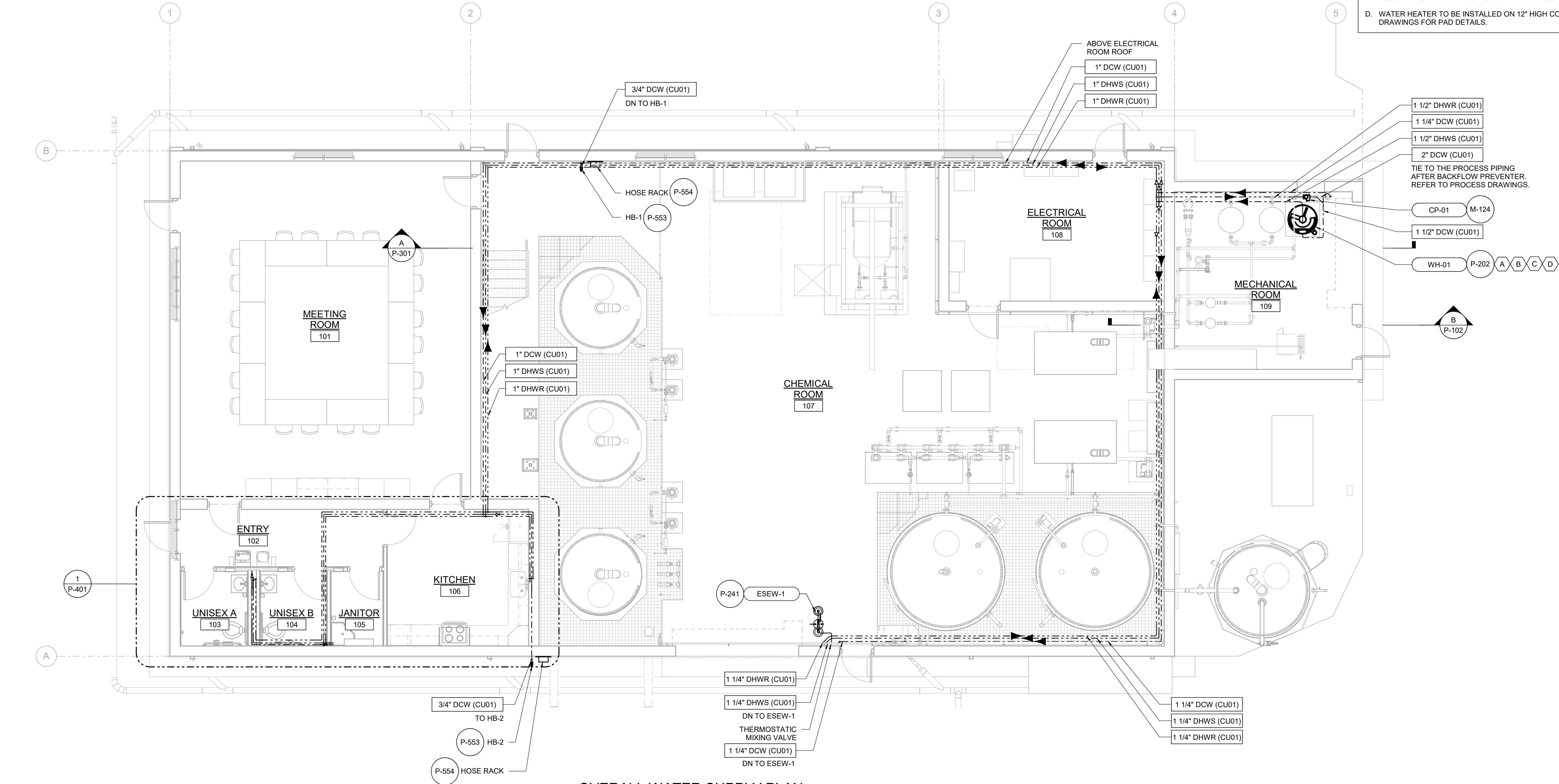
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PROJECT NO.:	21-3045	SCALE:
DATE:	AUGUST 2026	

SHEET
P-004

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OVERALL WATER SUPPLY PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL PLUMBING SYSTEM, EQUIPMENT, AND COMPONENTS SHALL BE FURNISHED AND INSTALLED IN STRICT COMPLIANCE WITH 2023 OREGON PLUMBING SPECIALTY CODE AND RELATED CODES.
2. PIPING INSULATION SHALL COMPLY WITH 2023 OREGON EFFICIENCY SPECIALTY CODE. COLD WATER PIPING INSULATION THICKNESS SHALL BE 1/2 INCH FOR PIPE SIZES UP TO 1 INCH, AND 1 INCH FOR PIPE SIZES LARGER THAN 1 INCH. HOT WATER PIPING INSULATION THICKNESS SHALL BE 1 INCH FOR PIPE SIZES UP TO 1 INCH AND 1-1/2 INCH FOR PIPE SIZES LARGER THAN 1 INCH.
3. NO PIPE SHALL BE ROUTED ABOVE ANY ELECTRICAL PANEL.

SHEET KEYNOTES

- A. ROUTE DRAIN TO EXTERIOR IN A DRY WELL.
- B. 4" FLUE VENT TO OUTSIDE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- C. 4" AIR INTAKE CONNECTION. ROUTE INTAKE AIR PIPE THROUGH ADJACENT WALL ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. TERMINATE WITH RAIN CAP.
- D. WATER HEATER TO BE INSTALLED ON 12" HIGH CONCRETE PAD. REFER TO STRUCTURAL DRAWINGS FOR PAD DETAILS.

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NOTICE

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PLUMBING			
WATER SUPPLY PLAN			
PROJECT NO.:	21-3045	SCALE:	3/16" = 1'-0"
DATE:	AUGUST 2026		

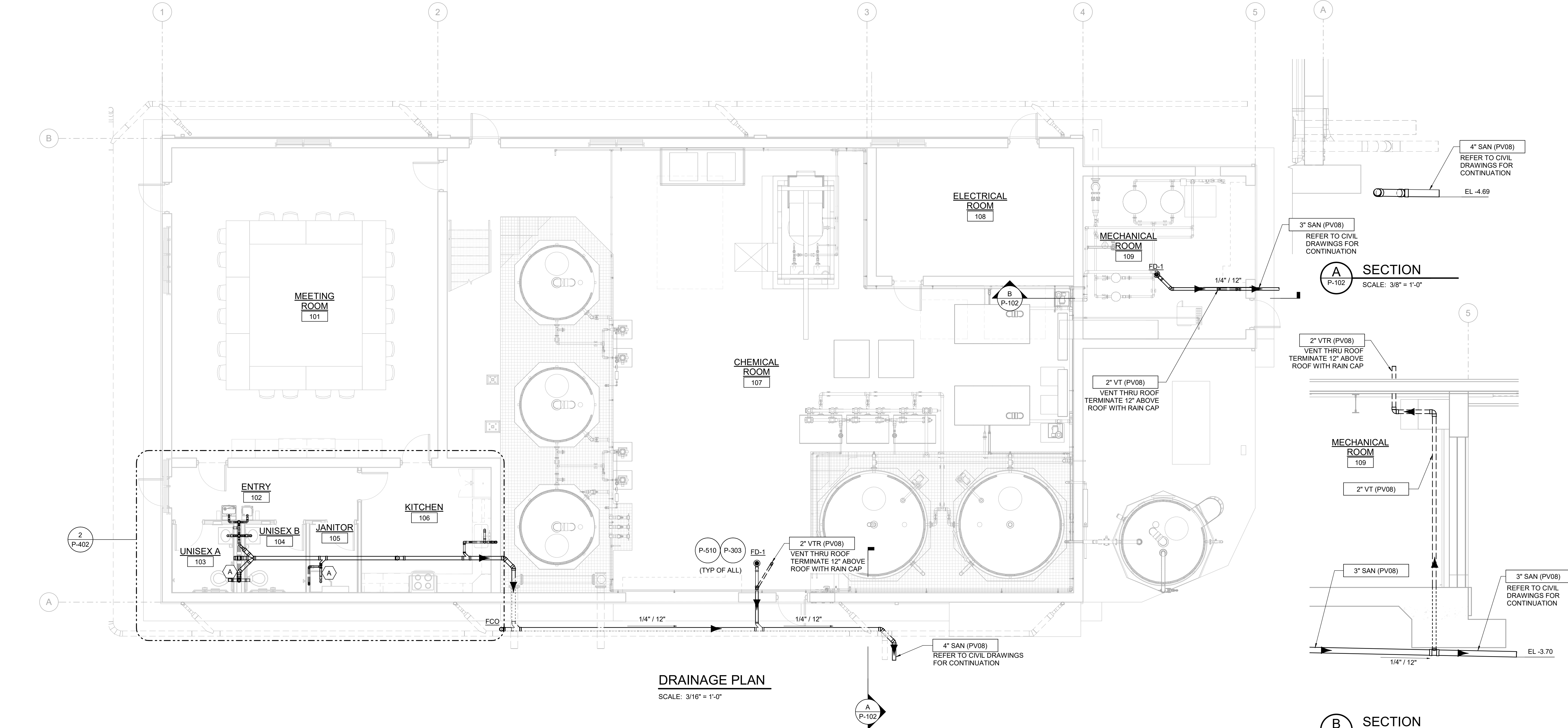
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P-101

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SHEET KEYNOTE

A. CONCRETE ENCASE ELBOWS AND PROVIDE VICTAULIC FLEXIBLE COUPLING AT THE PIPES EXITING THE ENCASEMENT.

GENERAL SHEET NOTES

1. DRAIN PIPES WHICH ARE 4" AND GREATER SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED, AND 3" AND LESS DRAIN PIPES SHALL BE SLOPED AT 1/4" PER FOOT

2. ALL FLOOR DRAINS SHALL BE PROVIDED WITH P-TRAPS WITH TRAP PRIMERS

3. ALL DRAIN PIPING SHALL BE BELOW THE SLAB UNLESS NOTED OTHERWISE

ELEVATION NOTES

1. ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION.
EL 0.00 = FINISHED FLOOR EL 324.20

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PLUMBING

DRAINAGE PLAN

PROJECT NO.: 21-3045 | SCALE: As indicated | DATE: AUGUST 2026

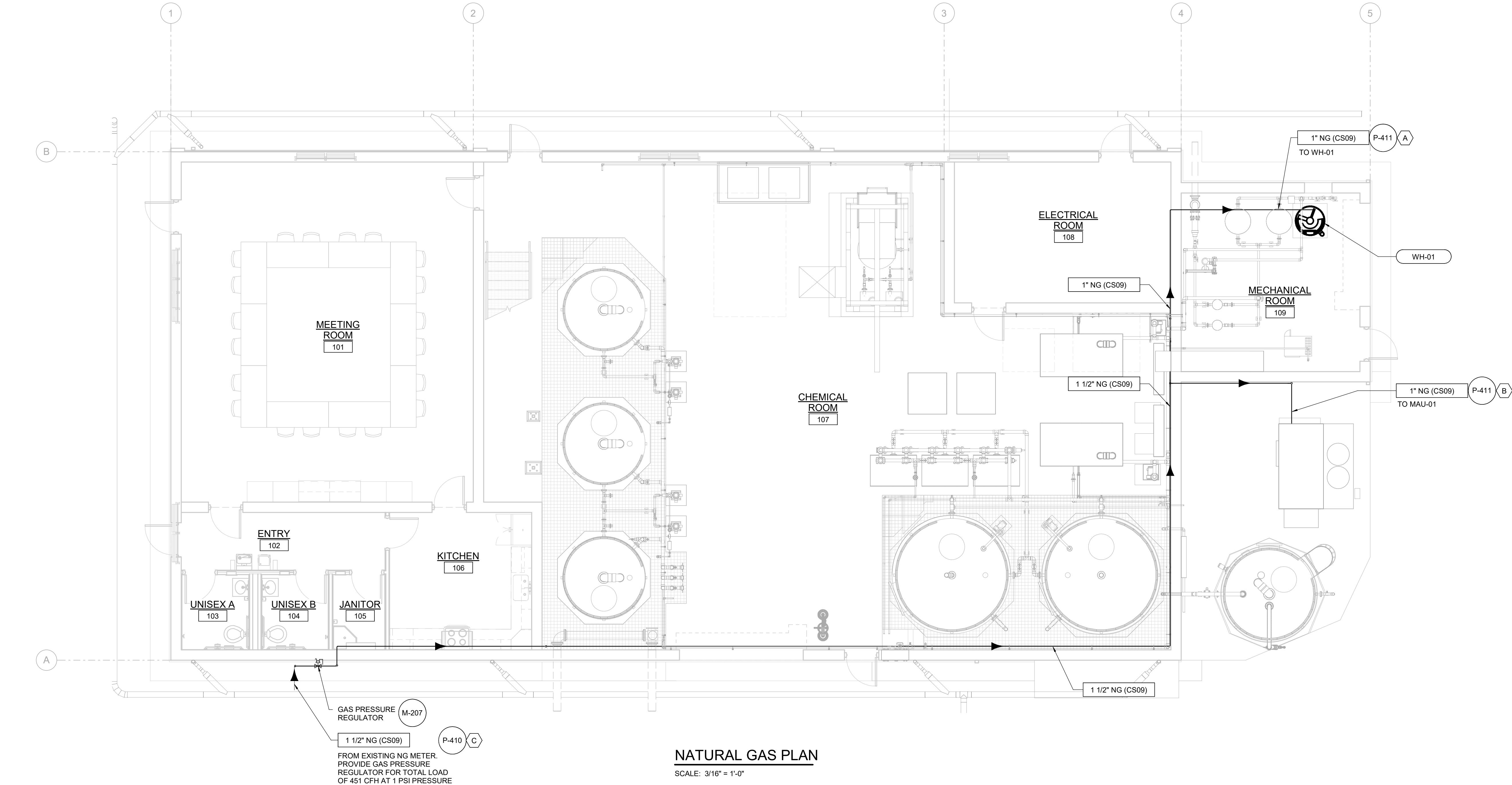
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P-102

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NOTICE

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ON
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REGISTERED PROFESSIONAL ENGINEER
99804PE
OREGON
MAY 10, 2022
SHYAM ANOL SAPTAIRATHI
EXPIRES: 06/30/2028

BID SET

South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

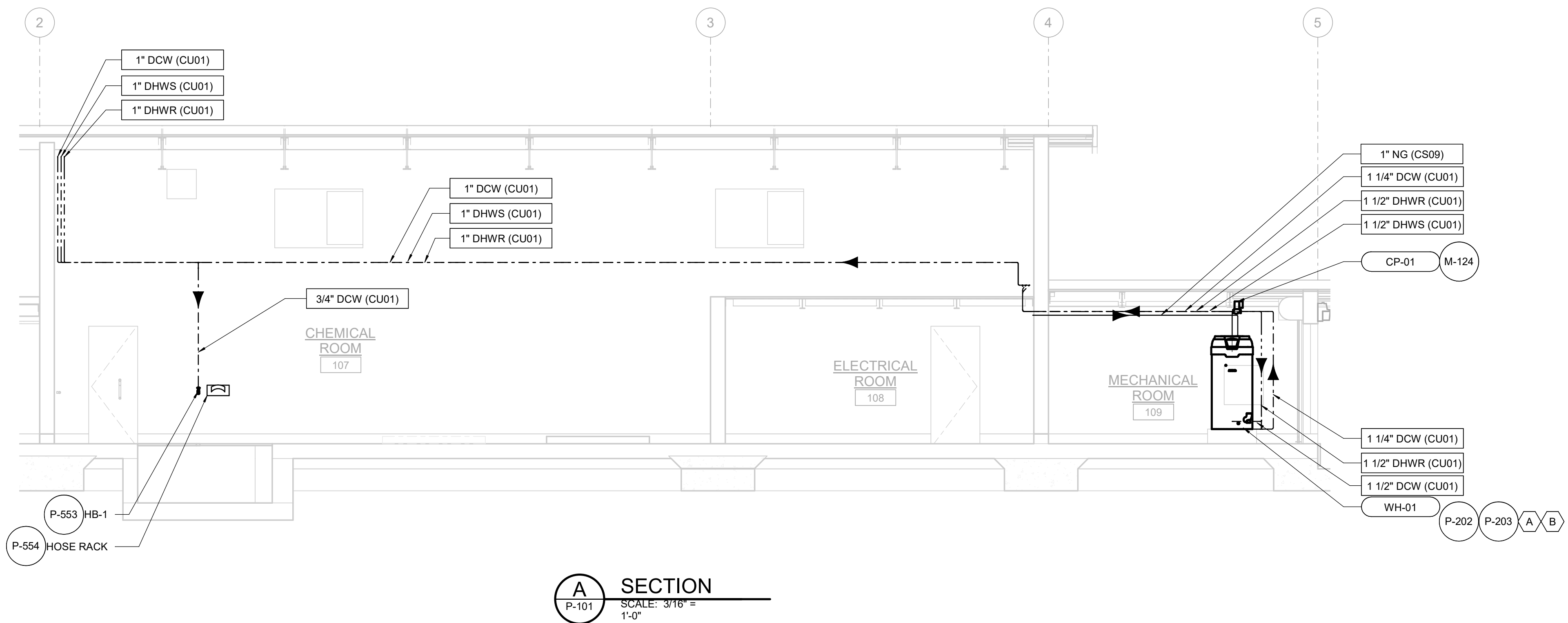
PLUMBING

NATURAL GAS PIPING

PROJECT NO.: 21-3045 | SCALE: 3/16" = 1'-0" | DATE: AUGUST 2026

SHEET

P-103



NO.	DATE	BY	REVISION

NOTICE
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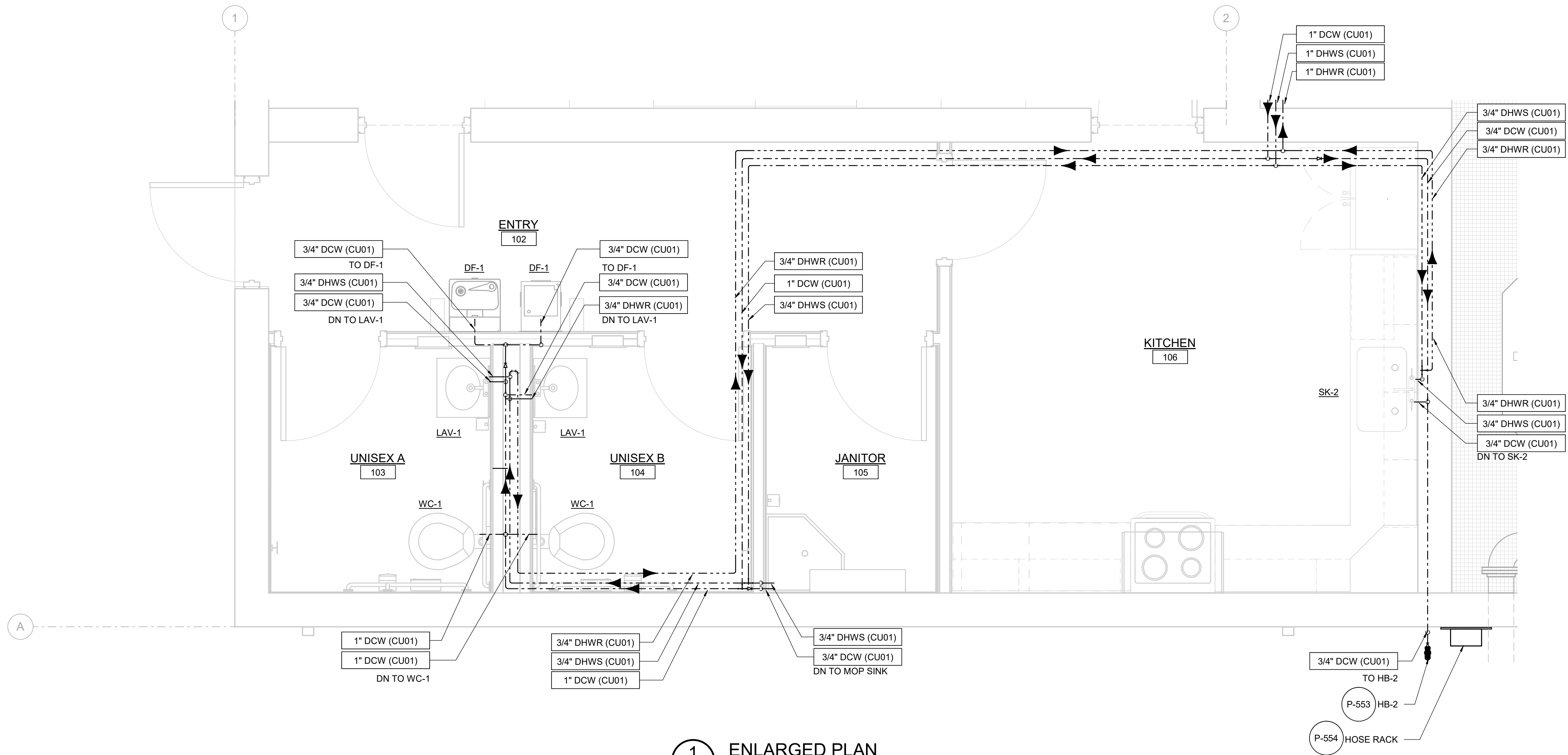
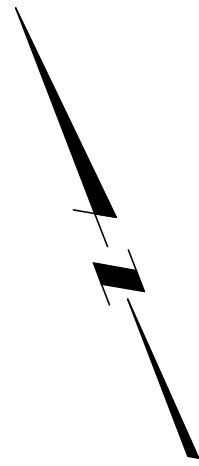


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PLUMBING SECTIONS		
PROJECT NO.:	21-3045	SCALE: 3/16" = 1'-0" DATE: AUGUST 2026

SHEET
P-301



1 ENLARGED PLAN
P-101 SCALE: 1/2" = 1'-0"

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NOTICE

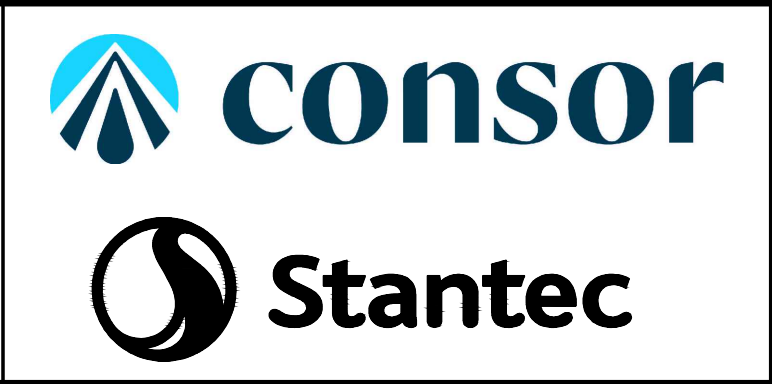
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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ON
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SHS
CHECKED



BID SET



PLUMBING

ENLARGED PLAN

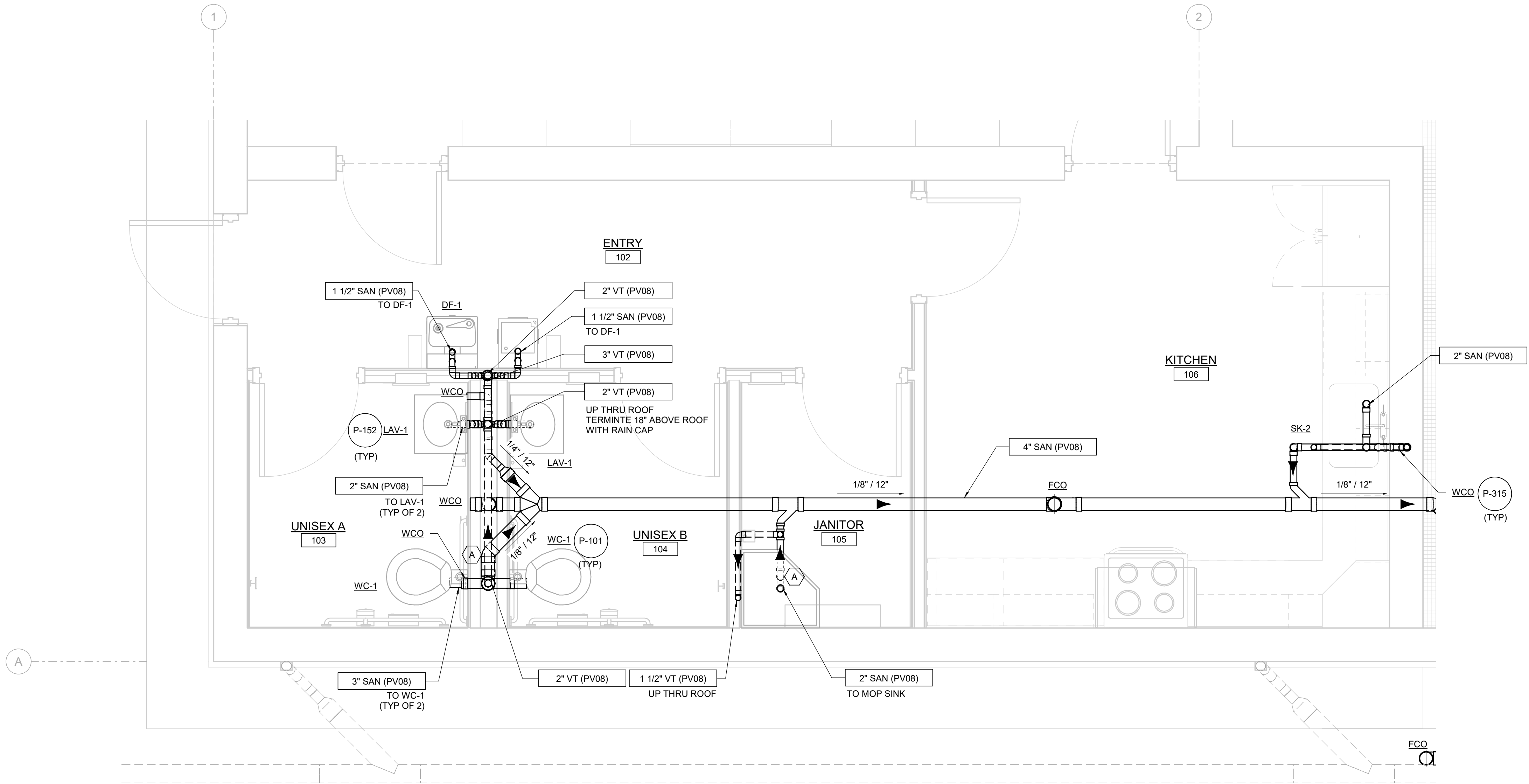
PROJECT NO.: 21-3045 | SCALE: 1/2" = 1'-0" | DATE: AUGUST 2026

SHEET

P-401

SHEET KEYNOTE

A. CONCRETE ENCASE ELBOWS AND PROVIDE VICTAULIC FLEXIBLE COUPLING AT THE PIPES EXITING THE ENCASEMENT.



2 ENLARGED PLAN
P-102 SCALE: 1/2" = 1'-0"

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SAS
DESIGNED ON
DRAWN
SHS
CHECKED

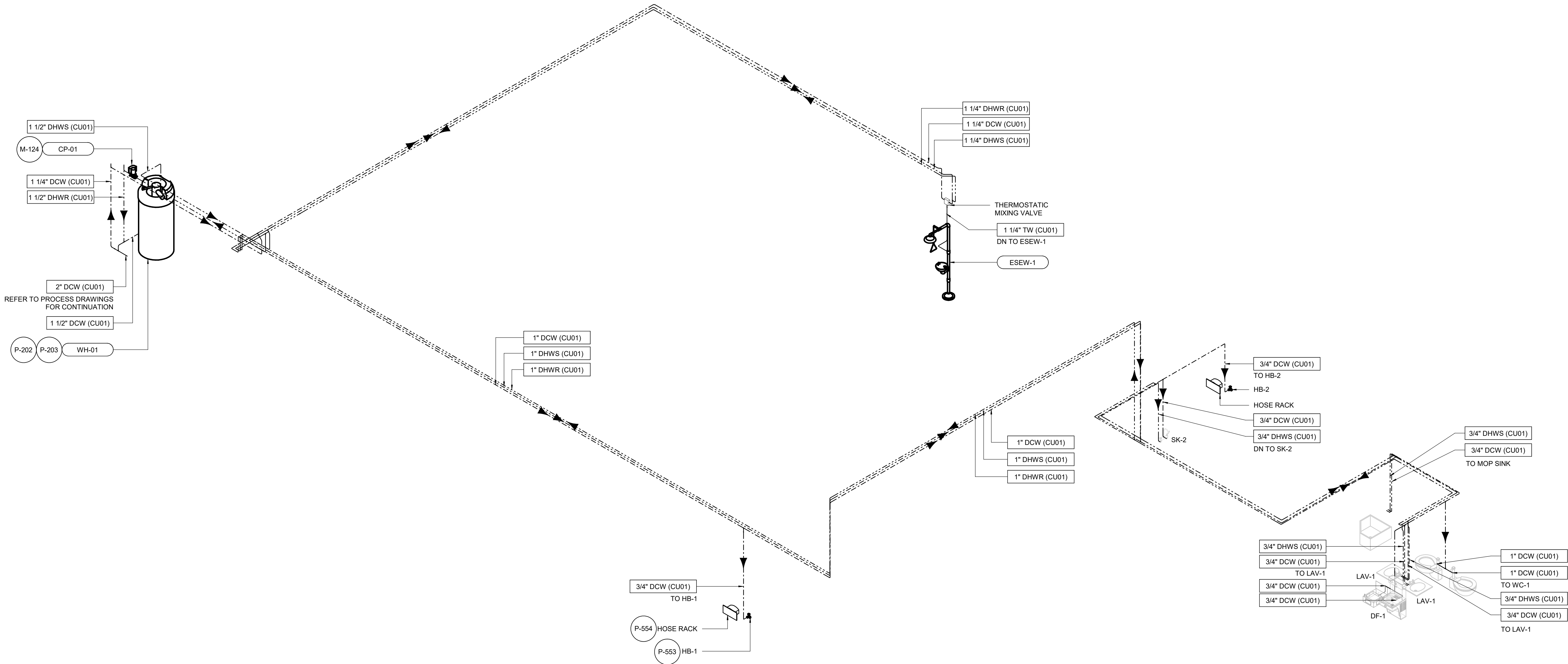


BID SET



PLUMBING		
ENLARGED PLAN		
PROJECT NO.:	21-3045	SCALE: 1/2" = 1'-0"
DATE:	AUGUST 2026	

SHEET
P-402



WATER SUPPLY ISOMETRIC

SCALE:

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SAS
DESIGNED ON
DRAWN
SHS
CHECKED

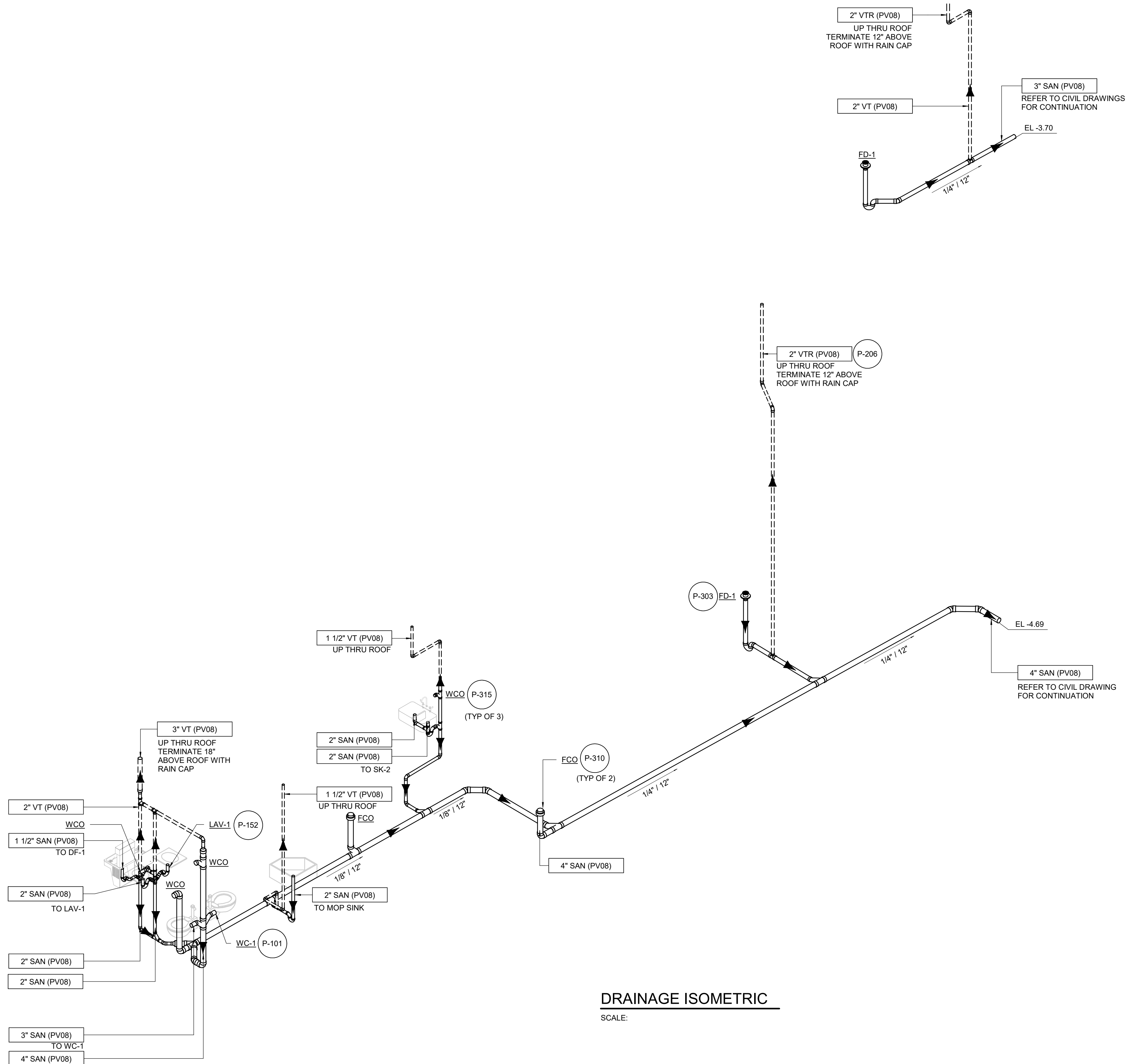


BID SET



PLUMBING		
WATER SUPPLY ISOMETRIC		
PROJECT NO.: 21-3045	SCALE:	DATE: AUGUST 2026

SHEET
P-901



DRAINAGE ISOMETRIC
SCALE:

ELEVATION NOTES
1. ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SAS DESIGNED ON

DRAWN SHS

CHECKED

REGISTERED PROFESSIONAL ENGINEER

99804PE

OREGON

MAY 10, 2022

SHIVANI AMOL SAPTAIRSHI

EXPIRES: 06/30/2028

BID SET

PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

PLUMBING

DRAINAGE ISOMETRIC

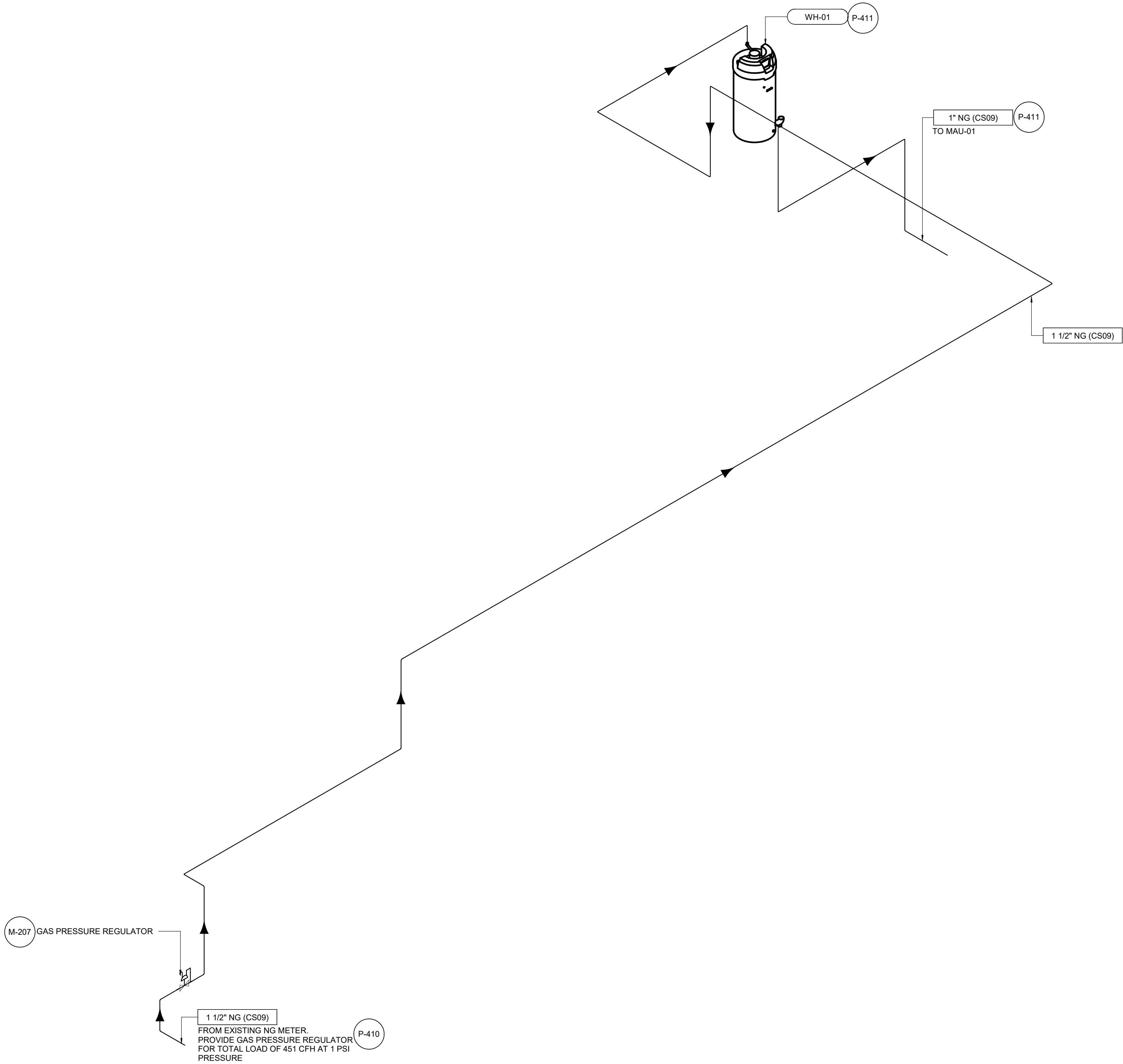
SHEET

P-902

PROJECT NO.: 21-3045

SCALE:

DATE: AUGUST 2026



NATURAL GAS ISOMETRIC

SCALE:

NO.	DATE	BY	REVISION

NOTICE

0

1

1/2

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SAS
DESIGNED
ON
DRAWN
SHS
CHECKED



BID SET



PLUMBING		
NATURAL GAS ISOMETRIC		
PROJECT NO.:	21-3045	SCALE:
DATE:		AUGUST 2026

SHEET
P-903