PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
E	EXISTING PIPING		DOMESTIC COLD WATER (CW)
	GATE VALVE (GV)		DOMESTIC HOT WATER (HW)
	GLOBE VALVE		DOMESTIC HOT WATER CIRCULATING (HWC)
	BUTTERFLY VALVE	SS	SANITARY SEWER
	PRESSURE REDUCING VALVE (PRV)		VENT (V), OR HIDDEN BELOW WASTE
	CHECK VALVE (CV)	G	NATURAL GAS PIPING
	TEMP./PRESS. RELIEF VALVE (T&PRV)	SD	RAIN LEADER / STORM DRAIN PIPING
	BALL VALVE		WASTE OR VENT UP
	BALANCING COCK (BC)		WALL CLEANOUT
	PIPE DOWN		FLUSH CLEANOUT (FCO/SCO)
	PIPE UP		CLEAN OUT (CO)
	BRANCH-TOP CONNECTION		IN LINE WASTE CONNECTION
	BRANCH-BOTTOM CONNECTION		P-TRAP
	BRANCH-SIDE CONNECTION		BRANCH PIPE DOWN
	FLOW DIRECTION		BRANCH PIPE UP
OR	VALVE IN RISER / DROP		TEE & UP
	PIPE ANCHOR		TEE
	PIPE GUIDE		ELBOWS, 90° & 45°
	FLEXIBLE CONNECTION (PIPE)		CAP
	REDUCER		PUMP
	STRAINER		WALL HYDRANT
	UNION	T	THERMOMETER
	DRAIN VALVE	P	PRESSURE GAGE
M	METER		FLOOR DRAIN
MC	MECHANICAL CONTRACTOR		FLOOR FUNNEL DRAIN
EC	ELECTRICAL CONTRACTOR		CROSSING LINES, NON CONNECTING
GC	GENERAL CONTRACTOR		PIPE CONTINUATION
POC	POINT OF CONNECTION	A	AQUASTAT
BFF	BELOW FINISHED FLOOR		TRAP PRIMER WITH ACCESS PANEL
AFF	ABOVE FINISHED FLOOR		GAS COCK
			FLOOR SINK

NOTES FOR MECHANICAL LEGEND SCHEDULE.

1. SINGLE LINE INDICATED ON PLANS DESIGNATES THE PROPOSED ROUTING FOR THE REFRIGERATION PIPING BETWEEN THE INDOOR AND OUTDOOR UNITS. THAT SINGLE LINE REPRESENTS ALL THE REQUIRED PIPING RUNS REQUIRED FOR THE SYSTEM DESIGNED.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

City of Puyallup Building
REVIEWED FOR COMPLIANCE
BSnowden
08/10/2026
8:50:43 AM

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PRCTI20260913

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08/03/2026

PUYALLUP HIGH SCHOOL
NATATORIUM TI
105 7th St SW
PUYALLUP, WA 98371

PLUMBING LEGEND

REVISIONS

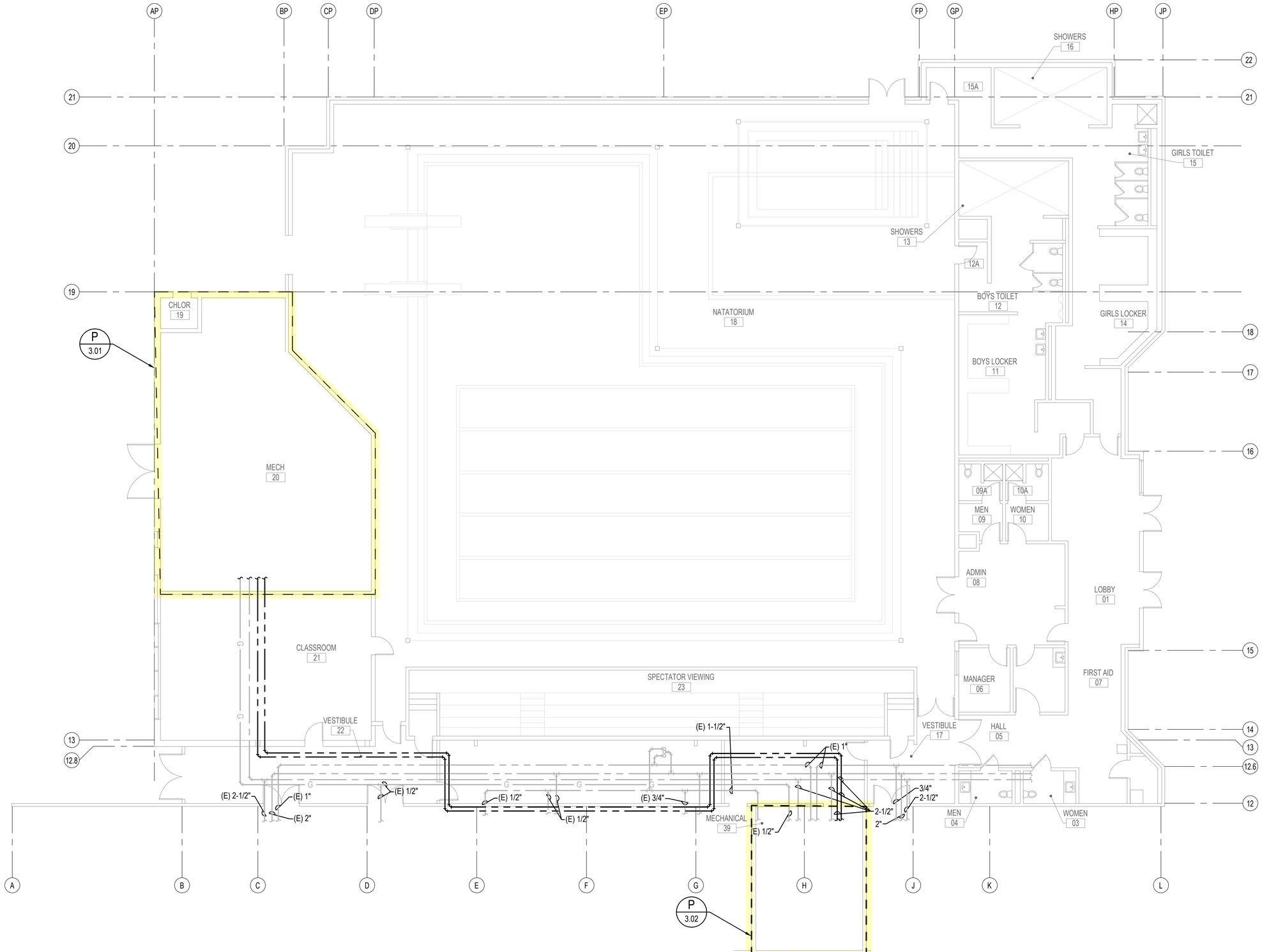
NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM
CHECKED BY: JH
PROJECT MANAGER: JH

DRAWING No. of 9

P-001

DATE: 07/08/2026
SUBMITTAL: CONSTRUCTION SET
PROJECT No. A0002011.000



1 PLUMBING FLOOR PLAN

SCALE: 1/8"=1'0"

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NATATORIUM TI
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PUYALLUP, WA 98371

PLUMBING FLOOR PLAN

REVISIONS

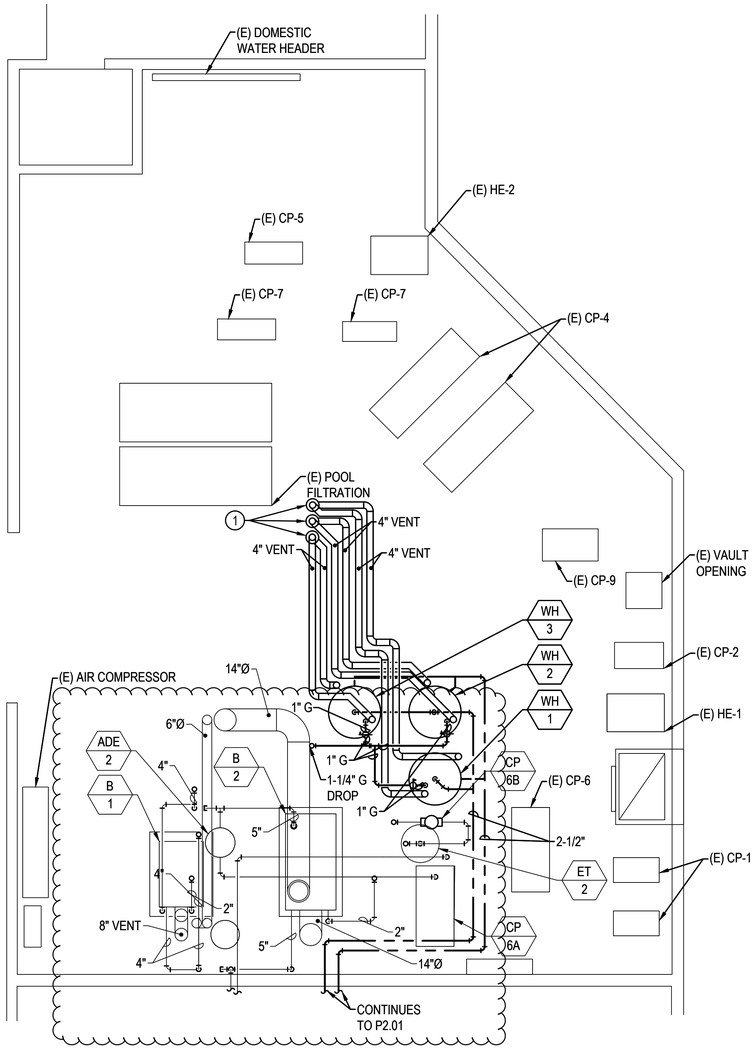
NO.	DESCRIPTION	DATE
-	-	-

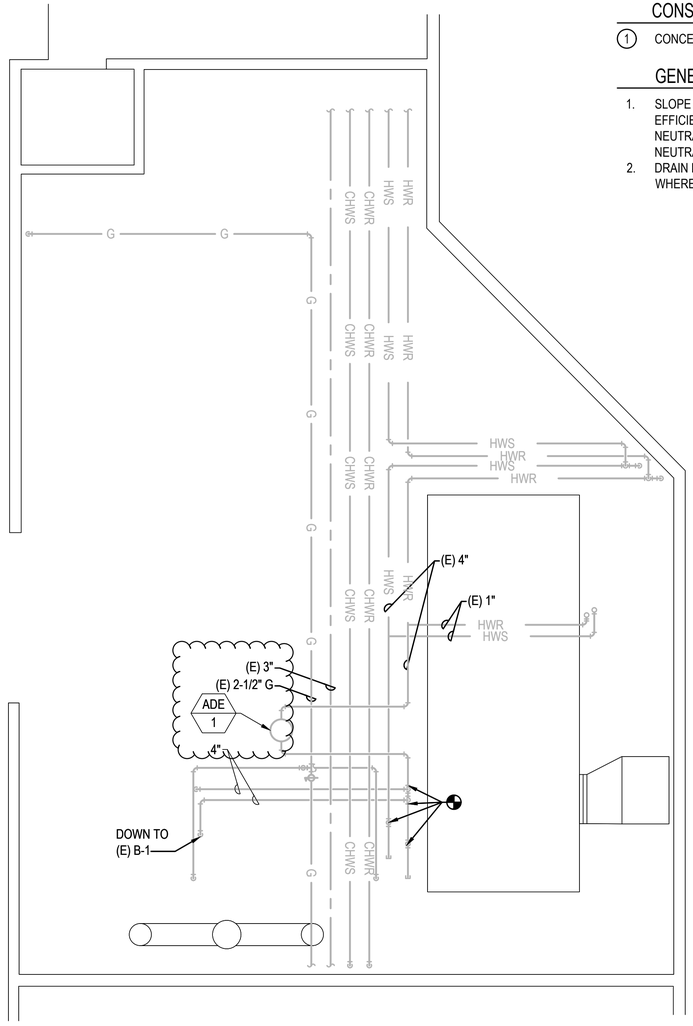
DRAWN BY: FM
CHECKED BY: JH
PROJECT MANAGER: JH

DRAWING No. of 9

P-201

DATE: 07/08/2026
SUBMITTAL: CONSTRUCTION SET
PROJECT No. A0002011.000





[2021 Washington State Mechanical Code, section 1005.1]
Valves
Every boiler or modular boiler shall have a shutoff valve in the supply and return piping. For multiple boiler or multiple modular boiler installations, each boiler or modular boiler shall have individual shutoff valves in the supply and return piping.

Exception: Shutoff valves are not required in a system having a single low-pressure steam boiler.

[2021 Washington State Mechanical Code, section 1004.3]
Working Clearance
Clearances shall be maintained around boilers, generators, heaters, tanks and related equipment and appliances so as to permit inspection, servicing, repair, replacement and visibility of all gauges. Where boilers are installed or replaced, clearance shall be provided to allow access for inspection, maintenance and repair. Passageways around all sides of boilers shall have an unobstructed width of not less than 18 inches (457 mm), unless otherwise approved.

1 ENLARGED PLUMBING PLAN LOWER MECHANICAL ROOM

SCALE: 1/4"=1'0"

2 ENLARGED PLUMBING PLAN UPPER MECHANICAL ROOM

SCALE: 1/4"=1'0"

CONSTRUCTION NOTES

1. CONCENTRIC VENTING KIT BY MANUFACTURER.

GENERAL NOTES

1. SLOPE ALL CONDENSING DRAIN PIPING FROM HIGH EFFICIENCY GAS BOILER AND WATER HEATERS TO NEUTRALIZER KITS BEFORE DRAINING. LOCATE NEUTRALIZERS NEAR DRAINS.
2. DRAIN RELIEF VALVES TO NEAREST FLOOR DRAINS WHERE FLOOR IS NOT SLOPED.

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ENLARGED PLUMBING PLANS MECHANICAL ROOM

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM
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PROJECT MANAGER: JH

DRAWING No. of 9

P-301

DATE: 07/08/2026
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PROJECT No. A0002011.000

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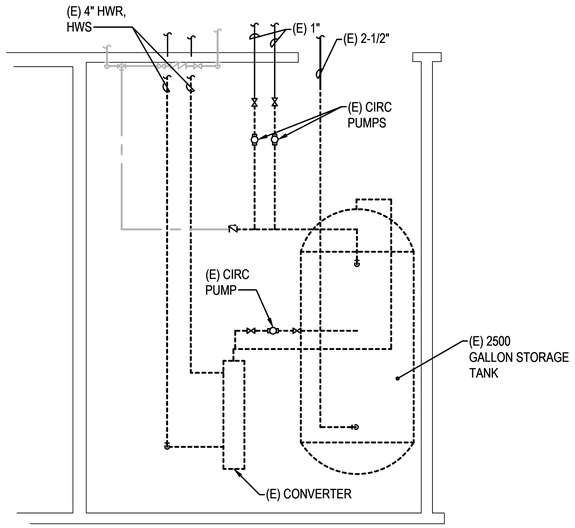
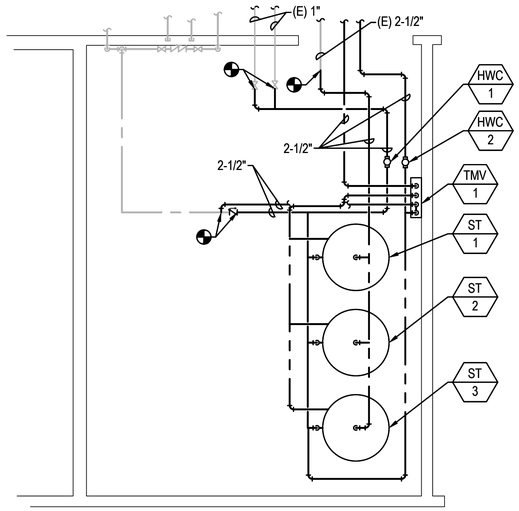
GENERAL NOTES

1. ITEMS DARK AND DASH REPRESENT ITEMS TO BE DEMOLISH. ITEMS LIGHT ARE EXISTING TO REMAIN.
2. POOL PIPING AND OTHER SYSTEMS NOT SHOWN IN COMPLETION FOR CLARITY.



1 ROOM 39 PLUMBING DEMOLITION PLAN
SCALE: 1/4"=1'0"



2 ROOM 39 PLUMBING PLAN
SCALE: 1/4"=1'0"

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ENLARGED PLUMBING DEMOLITION AND PLUMBING PLANS ROOM 39

REVISIONS

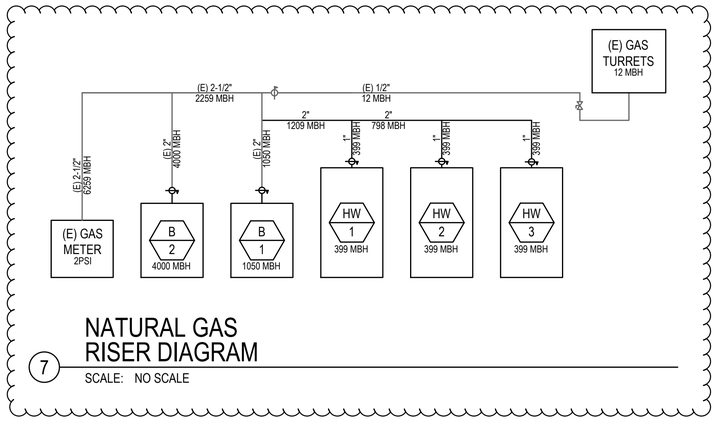
NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM
CHECKED BY: JH
PROJECT MANAGER: JH

DRAWING No. of 9

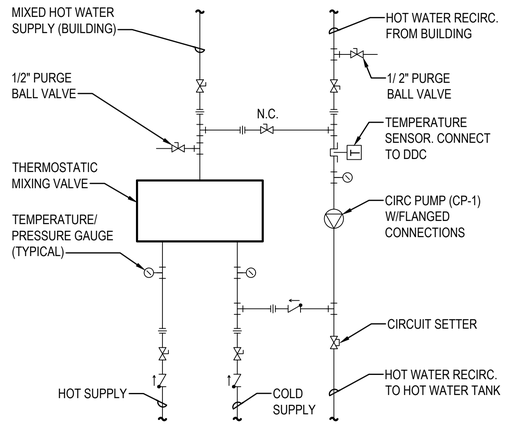
P-302

DATE: 07/08/2026
SUBMITTAL: CONSTRUCTION SET
PROJECT No. A0002011.000



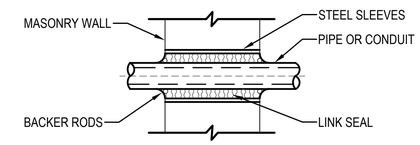
NATURAL GAS RISER DIAGRAM

7 SCALE: NO SCALE



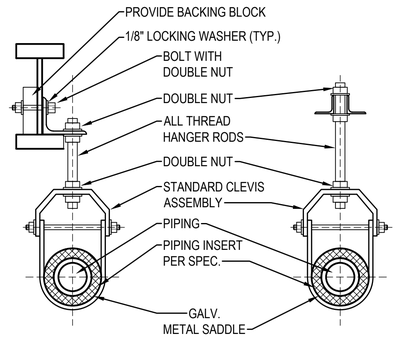
THERMOSTATIC MIXING VALVE INSTALLATION DETAIL

3 SCALE: DIAGRAMMATIC



PIPE THROUGH MASONRY WALL PENETRATION DETAIL

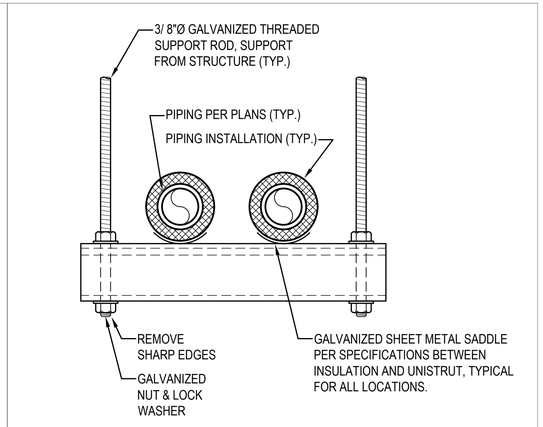
4 SCALE: DIAGRAMMATIC



AT WOOD TRUSS AT METAL TRUSS

PIPE HANGER DETAIL

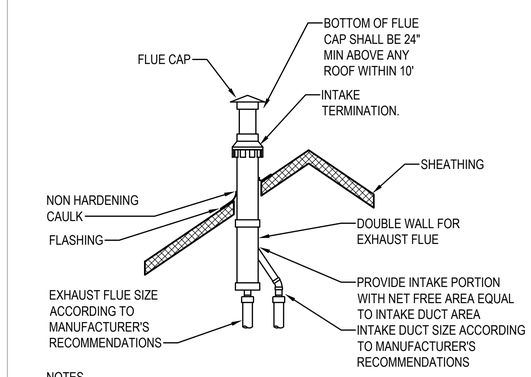
5 SCALE: DIAGRAMMATIC



NOTE:
PROVIDE THREE SUPPORT RODS FOR ALL STRUCTS LONGER THAN 24".

PIPE SUPPORT DETAIL

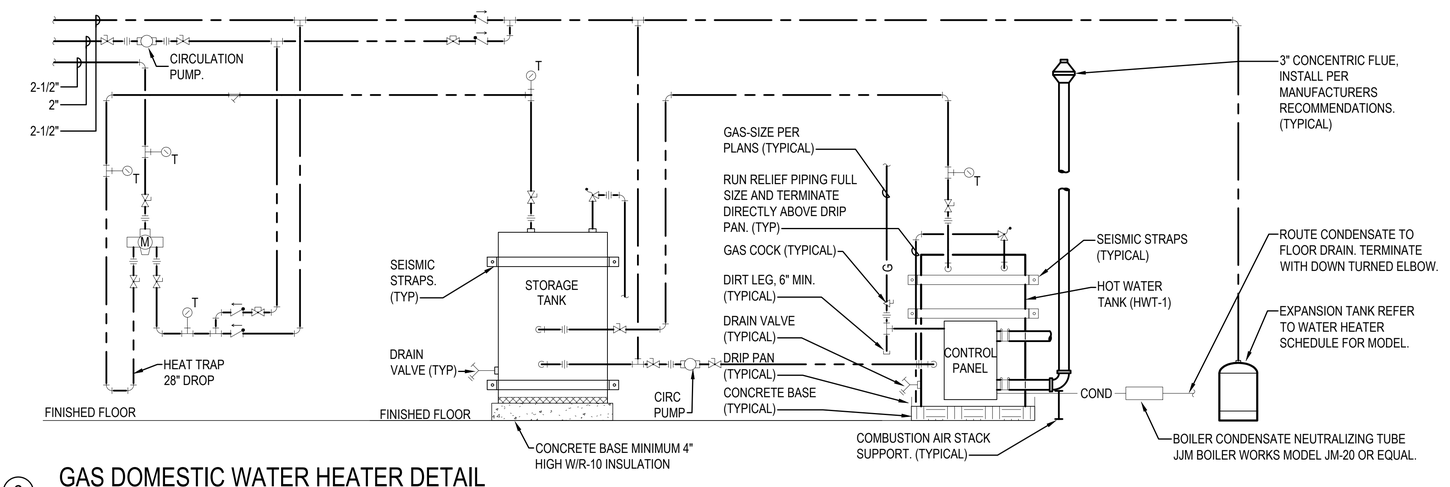
6 SCALE: DIAGRAMMATIC



NOTES
1. VERIFY PITCH OF ROOF AND PROVIDE BLOCKING AND FLASHING AS REQUIRED.
2. COORDINATE EQUIPMENT AND FLUE LOCATION WITH GENERAL CONTRACTOR.

CONCENTRIC FLUE ROOF PENETRATION DETAIL

1 SCALE: DIAGRAMMATIC



GAS DOMESTIC WATER HEATER DETAIL

2 SCALE: DIAGRAMMATIC

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08/03/2026

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PUYALLUP, WA 98371

PLUMBING DETAILS

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM
CHECKED BY: JH
PROJECT MANAGER: JH

DRAWING No. of 9

P-501

DATE: 07/08/2026
SUBMITTAL: CONSTRUCTION SET
PROJECT No. A0002011.000

DOMESTIC WATER HEATER SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	TYPE	TANK SIZE (GAL)	INPUT MBH (KW)	EFFICIENCY	RECOVERY (GPH) @ 90°F RISE	WET WEIGHT (LB)	ELECTRICAL				STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
										MCA	MOP	VOLTS	PH			
WH-1	AO SMITH	BTH-400A	RM 39	GAS	119	399	95%	512	1900	15	-	120	1	MFR	EC	1,2,3,4,5
WH-2	AO SMITH	BTH-400A	RM 39	GAS	119	399	95%	512	1900	15	-	120	1	MFR	EC	1,2,3,4,5
WH-3	AO SMITH	BTH-400A	RM 39	GAS	119	399	95%	512	1900	15	-	120	1	MFR	EC	1,2,3,4,5

NOTES

1. SINGLE POINT POWER CONNECTION. PROVIDE ALL POWER TRANSFORMERS AS NECESSARY.
2. SET TEMPERATURE AT 140F.
3. PROVIDE FULLY MODULATING GAS BURNERS.
4. PROVIDE WITH PRESSURE REGULATORS TO REDUCE 2 PSI DELIVERY PRESSURE TO 7" WC. VENT REGULATOR TO ATMOSPHERE.
5. TANK TO BE ASME RATED.
6. UNIT PROVIDED WITH TWO 50A CONTACTORS.

DOMESTIC WATER CIRCULATION PUMP SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	AREA SERVED	MOTOR		HEAD (FT)	FLOW (GPM)	ELECTRICAL				STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
					HP	RPM			MCA	MOP	VOLTS	PH			
HWC-1	GRUNDFOS	MAGNA3 65	RM 39	BUILDING	1/16	3200	26	10	0.05	1.7	120	1	NOTE 1	EC	1,2,3
HWC-2	GRUNDFOS	MAGNA3 65	RM 39	ST-X	1/16	3200	11	10	0.05	1.7	120	1	NOTE 1	EC	1,2,3

NOTES

1. EC TO PROVIDE A MANUAL STARTER (INCLUDING DISCONNECT). MC TO PROVIDE AND INSTALL A MOTOR RATED RELAY FOR INTERLOCK.
2. EC TO CONNECT PUMP TO AQUASTAT.
3. STAINLESS STEEL CONSTRUCTION.

EXPANSION TANK SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	MINIMUM TANK VOLUME (GAL)	MINIMUM ACCEPTANCE (GAL)	MIN TEMP	MAX TEMP	MAX PRESSURE	TANK CONFIG.	REMARKS
ET-1	WATTS	DETA-180	RM 39	80	53	50°F	200°F	150 PSI	VERTICAL	1,2,3,4

NOTES

1. ASME TANK CONSTRUCTION
2. INSTALL DRAIN VALVE BETWEEN SHUT-OFF VALVE AND TANK FOR CHECKING AND ADJUSTING TANK AIR CHARGE.
3. PROVIDE BALL VALVE SHUT-OFF VALVE WITH LOCKABLE HANDLE, VALVE TO BE LOCKED OPEN FOR OPERATION.
4. ADJUST TANK PRE-CHANGE TO EQUAL THE INCOMING WATER PRESSURE.

DOMESTIC WATER STORAGE TANK SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	TANK SIZE (GAL)	WET WEIGHT (LB)	REMARKS
ST-1	AO SMITH	TJV-400A	RM 39	400	4075	1,2
ST-2	AO SMITH	TJV-400A	RM 39	400	4075	1,2
ST-3	AO SMITH	TJV-400A	RM 39	4000	4075	1,2

NOTES

1. ASME TANK CONSTRUCTION
2. PROVIDE WITH TANK TEMPERATURE CONTROL KIT.

THERMOSTATIC MIXING VALVE SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)		REMARKS
				MIN	MAX	
TMV-1	WATTS	LFSH1435	RM39	0.5	69	1,2

NOTES

1. SETPOINT OF 120°F
2. MAX FLOW AT 20 PSI PRESSURE DROP

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08/03/2026

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PLUMBING SCHEDULES

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM
CHECKED BY: JH
PROJECT MANAGER: JH

DRAWING No. of 9

P-601

DATE: 07/08/2026
SUBMITTAL: CONSTRUCTION SET
PROJECT No. A0002011.000