

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

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 permittee 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
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

City of Puyallup
Building
Engineering
APPROVED

See permit conditions.
A|Hunt
08/13/2026
4:05:42 PM

City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE

BSnowden
08/10/2026
8:50:20 AM

City of Puyallup
Planning
Division
APPROVED

See permit conditions.
J|HulseLew
07/15/2026
4:11:22 PM

REVISIONS		
NO.	DESCRIPTION	DATE
-	-	-

DRAWN BY: FM

CHECKED BY: JH

PROJECT MANAGER: JH

DRAWING No. of TOTAL

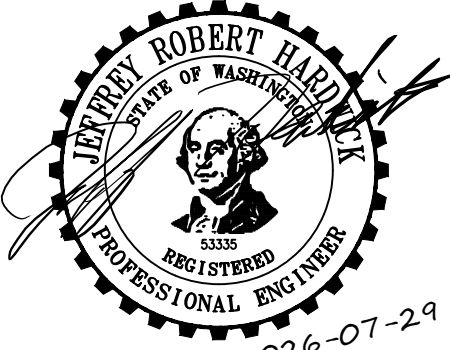
M0.01

DATE: 5/8/2026
SUBMITTAL: SD
PROJECT No. 250-241

PRCTI20260913



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6021 12th St. E. Suite 200
Fife, WA 98424
P: 253-922-0446 | F: 253-922-0896

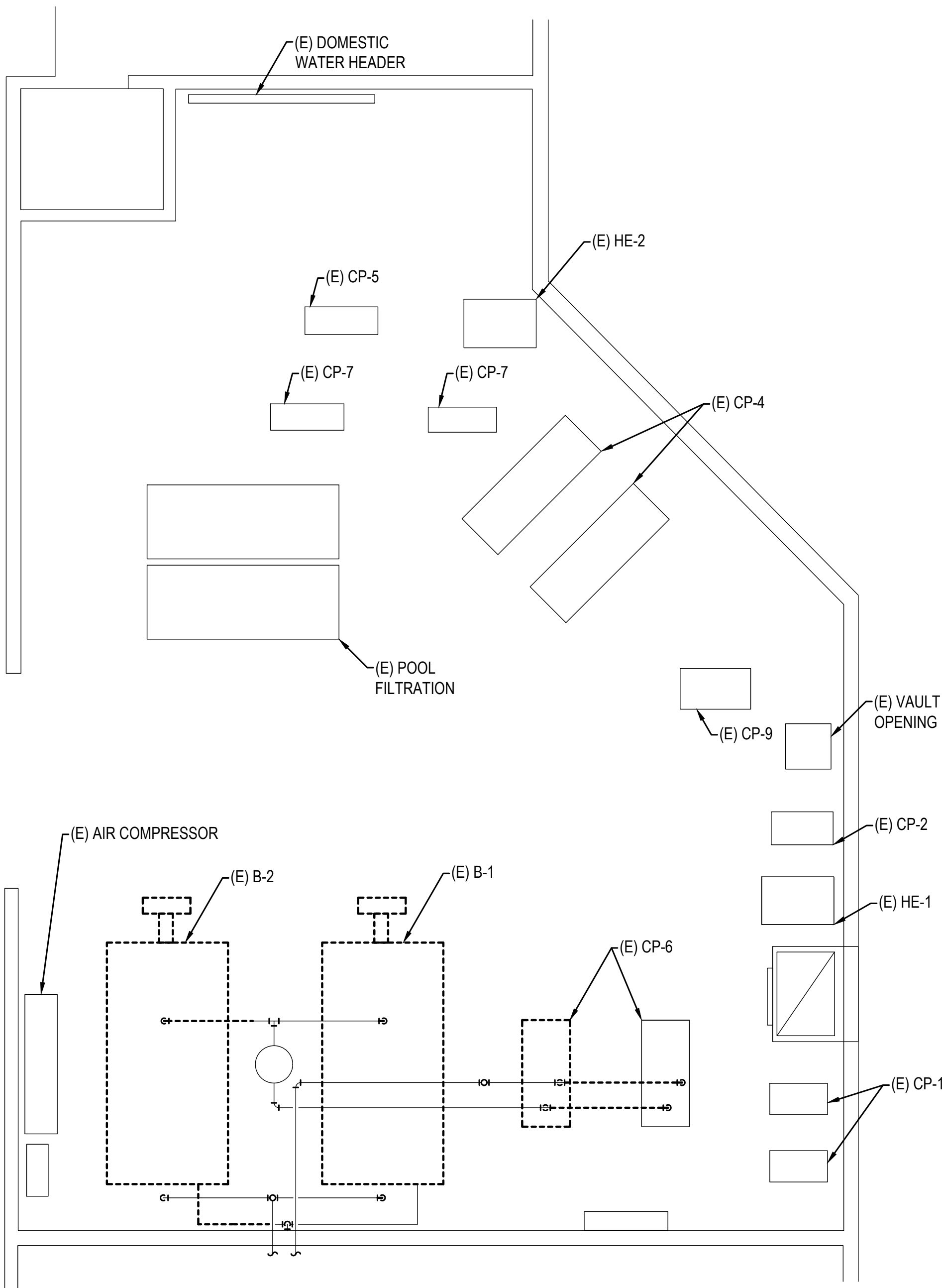


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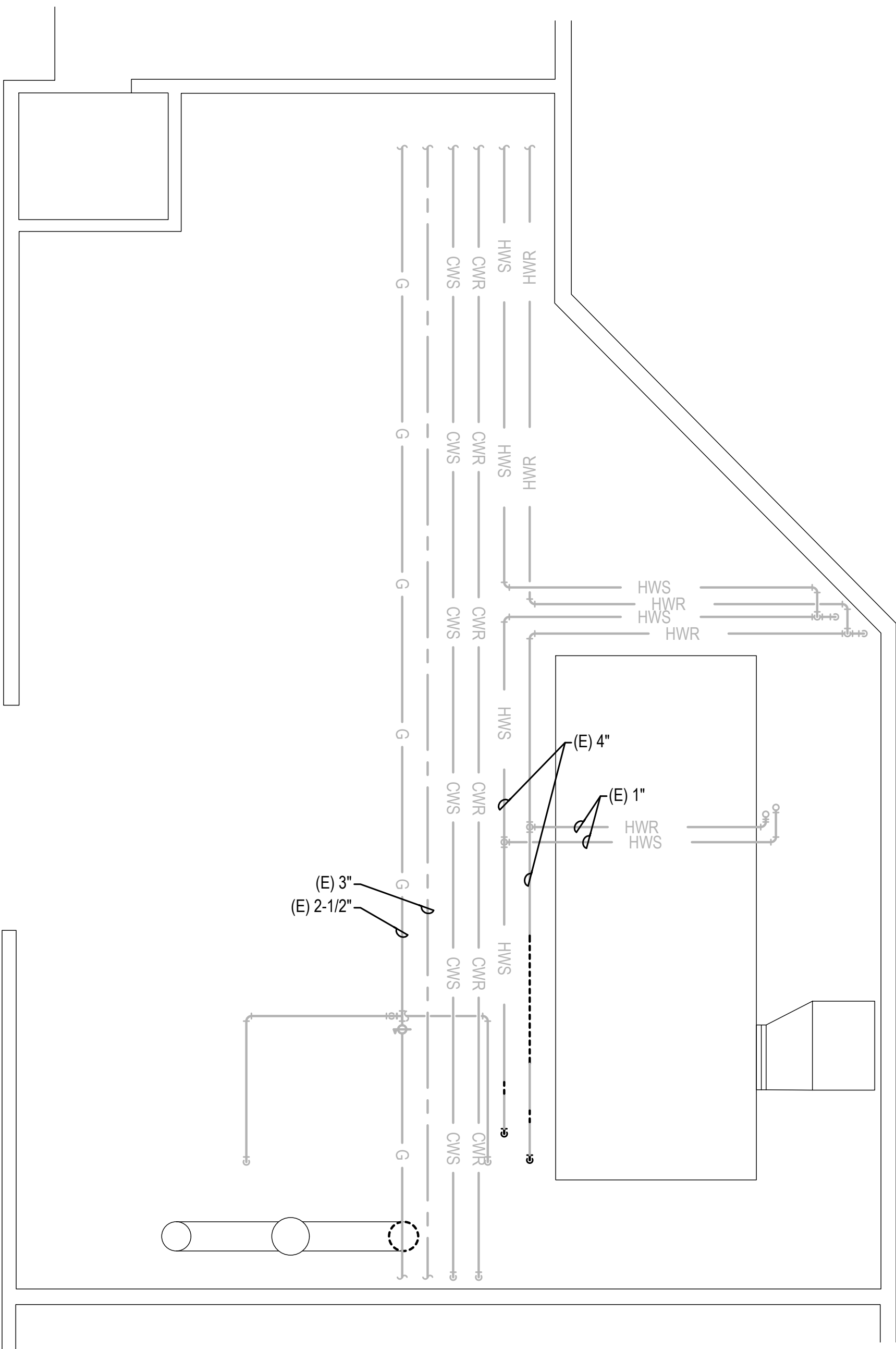
PUYALLUP HIGH SCHOOL
NATATORIUM TI

105 7th St SW
PUYALLUP, WA 98371

MECHANICAL
LEGEND



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

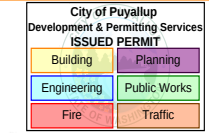


2 UPPER MECHANICAL ROOM DEMOLITION PLAN
 SCALE: 1/4"=1'0"

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.

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**PUYALLUP HIGH SCHOOL
 NATATORIUM TI**

105 7th St SW
 PUYALLUP, WA 98371

**MECHANICAL
 ENLARGED
 DEMOLITION
 PLAN**

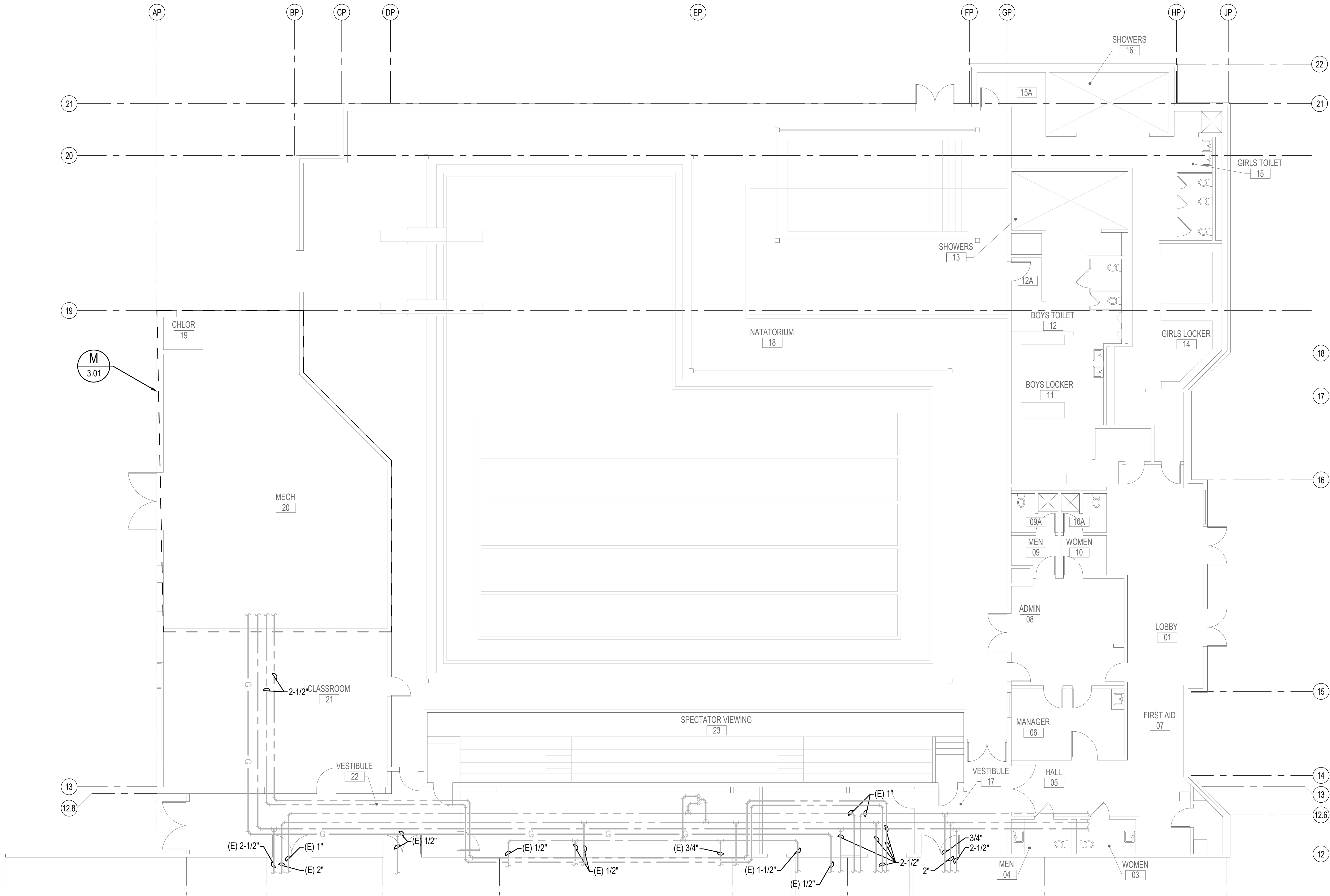
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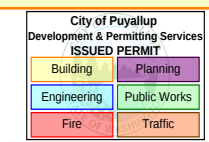


MECHANICAL FLOOR PLAN

SCALE: 1/4"=1'0"

See Plumbing Floor Plan (sheet P-201) for additional information, including location of Room 39.

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MECHANICAL
FLOOR
PLAN

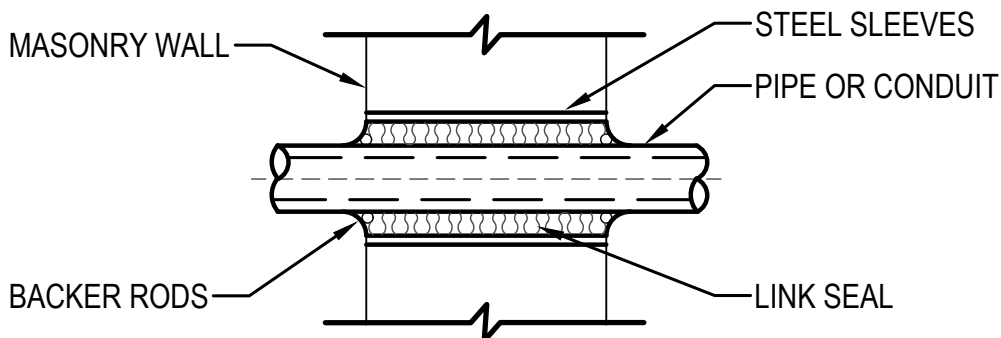
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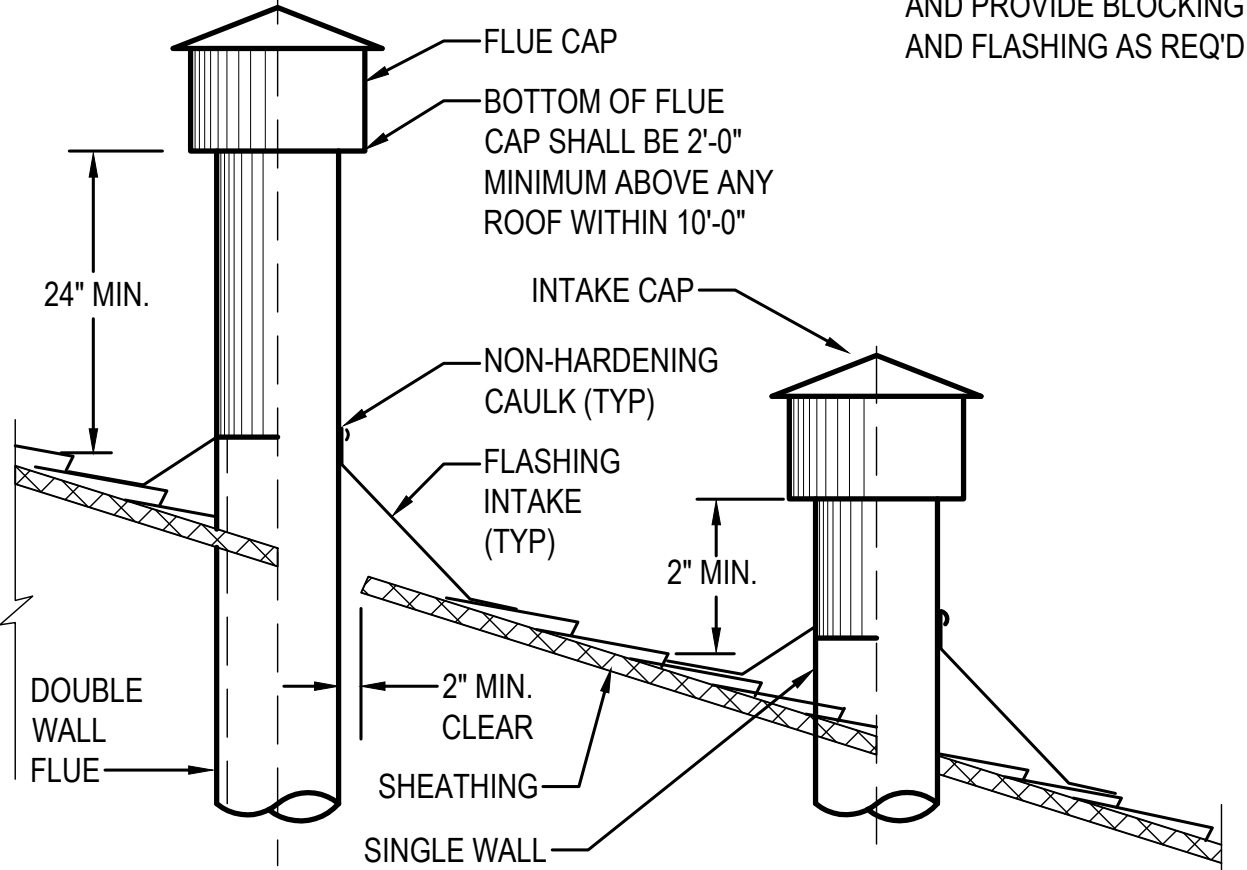
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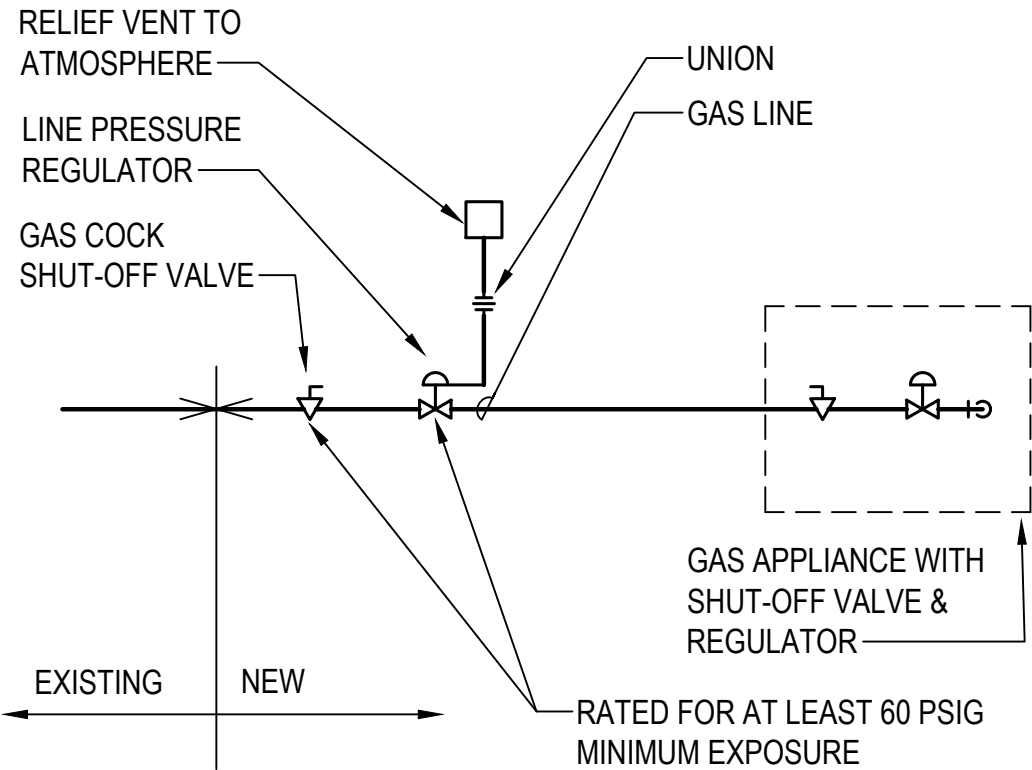
PIPE THROUGH MASONRY WALL
PENETRATION DETAIL

SCALE: DIAGRAMMATIC



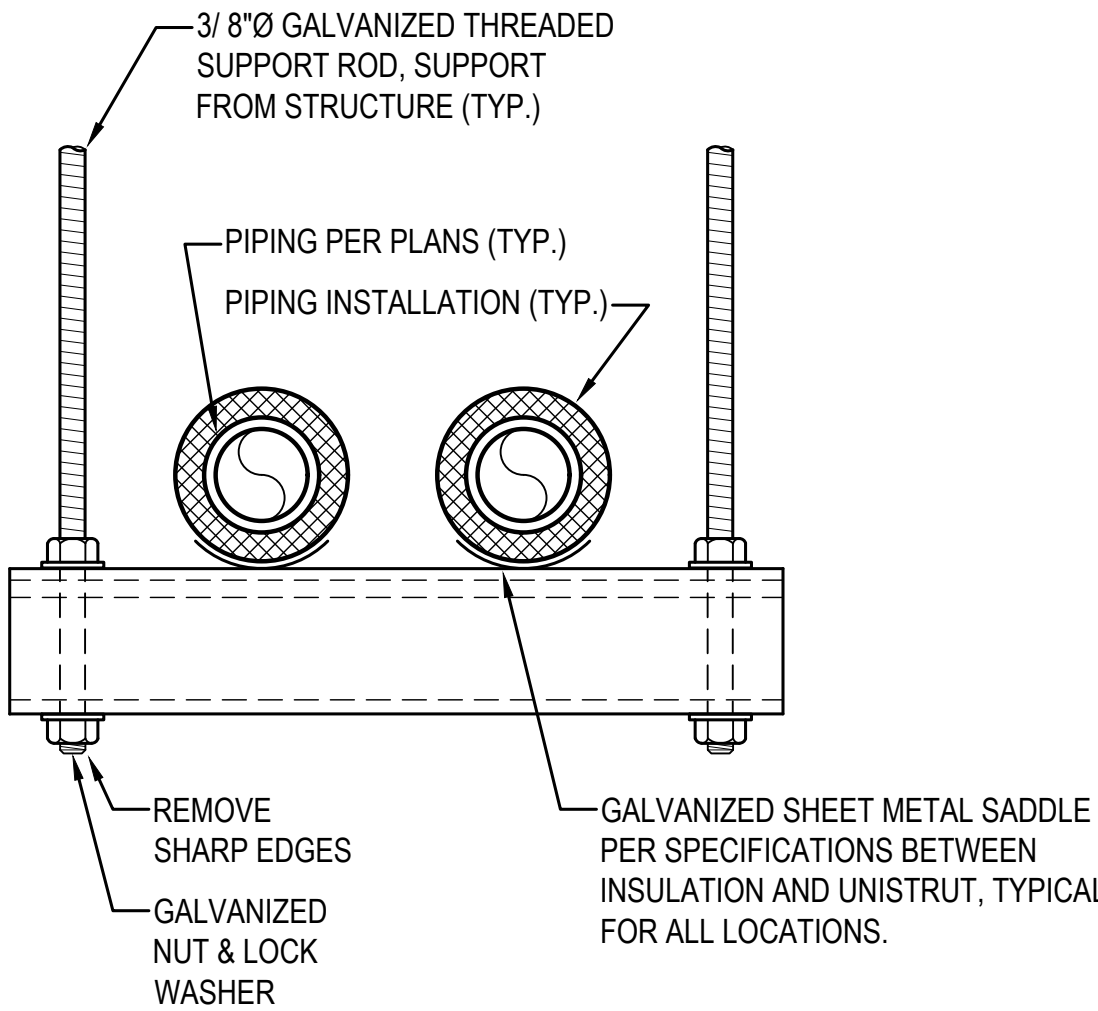
FLUE & INTAKE ROOF
PENETRATION DETAIL

SCALE: DIAGRAMMATIC



TYPICAL GAS UNIT PIPING DIAGRAM

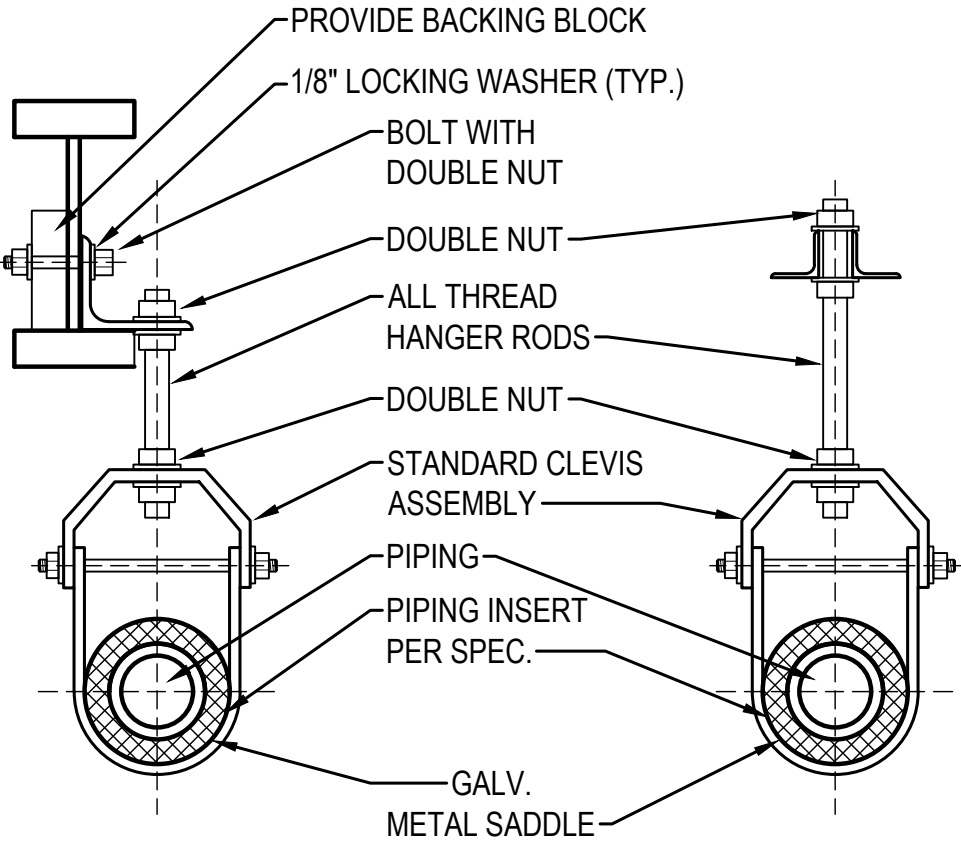
SCALE: DIAGRAMMATIC



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

PIPE SUPPORT DETAIL

SCALE: DIAGRAMMATIC



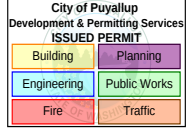
AT WOOD TRUSS

AT METAL TRUSS

PIPE HANGER DETAIL

SCALE: DIAGRAMMATIC

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PUYALLUP HIGH SCHOOL
NATATORIUM TI

105 7th St SW
PUYALLUP, WA 98371

MECHANICAL
DETAILS
I

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-

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DATE: 5/8/2026
SUBMITTAL: SD
PROJECT No. 250-241

HYDRONIC BOILER SCHEDULE																		
UNIT NO	MANUFACTURER	MODEL	LOCATION	AREA SERVED	INPUT (MBH)	OUTPUT (MBH)	FUEL		AHRI EFFICIENCY (%)	WATER PD (FT)	WATER FLOW @ 20F TEMP RISE (GPM)	ELECTRICAL			STARTER FURNISHED BY	DISCONNECT FURNISHED BY	WEIGHT (LBS)	REMARKS
							TYPE	PRESSURE				FLA	VOLTS	PH				
B-1	PATTERSON KELLEY	C-1000	MECH	POOL	1000	930	NAT. GAS	8" WC	93.0	-	96.0	10.0	120	1	MFR	MFR	2150	1,2,3
B-2	PATTERSON KELLEY	C-4000	MECH	GYM	4000	3720	NAT. GAS	8" WC	93.0	-	372.0	10.0	480	3	MFR	MFR	2772	1,2,3
NOTES																		
1. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT, STRIEM LAB RAT OR EQUAL																		
2. PROVIDE WITH MANUFACTURER'S BOILER CONTROLLER																		
3. CC TO INTEGRATE NEW BOILER CONTROL WITH EXISTING EMCS																		

EXISTING BOILER SCHEDULE																
UNIT NO	MANUFACTURER	MODEL	LOCATION	AREA SERVED	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY (%)	FUEL		BOILER VOLUME (GALLONS)	WATER FLOW @ 20F TEMP RISE (GPM)	ELECTRICAL			WEIGHT (LBS)	REMARKS
								TYPE	PRESSURE			FLA	VOLTS	PH		
(E)B-1	BURNHAM	450A	MECH	POOL	4185	3348	80%	NAT. GAS	8" WC	666.0	317.0	-	-	-	14225	
(E)B-2	BURNHAM	450A	MECH	GYM	4185	3348	80%	NAT. GAS	8" WC	666.0	317.0	-	-	-	14225	
NOTES																

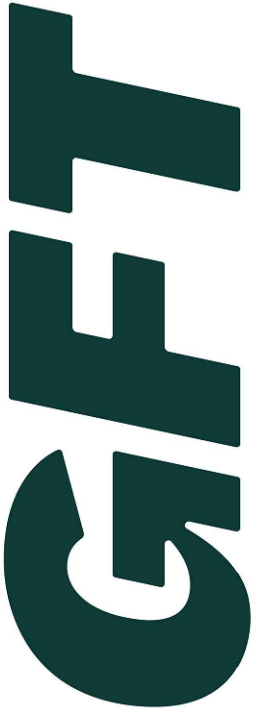
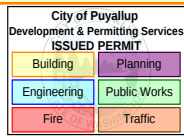
HYDRONIC AIR/DIRT ELIMINATOR SCHEDULE											
UNIT NO	MANUFACTURER	MODEL	SYSTEM	LOCATION	FLOW		CONNECTION SIZE (IN)	VOLUME (GAL)	WATER PD @ ACTUAL FLOW (FT H2O)	WEIGHT (LBS)	REMARKS
					MAX (GPM)	ACTUAL (GPM)					
ADE-1	SPIROTHERM	VDN300FA	POOL	MECH	140	100	3	6.6	1	260	1,2,3
ADE-2	SPIROTHERM	VDN500FA	GYM	MECH	370	300	5	20.0	1	520	1,2,3
NOTES											
1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS											
2. PROVIDE WITH AUTOMATIC AIR VENT VALVE											
3. PROVIDE WITH FLANGED REMOVABLE HEAD											

POOL HEAT EXCHANGER SCHEDULE													
UNIT NO	MANUFACTURER	MODEL	SYSTEM	LOCATION	PERFORMANCE			CONNECTION SIZE POOL (IN)	CONNECTION SIZE BOILER (IN)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	REMARKS
					MBH	DESIGN GPM	MAX GPM						
PHE-1	BOWMAN	FC100-5107-2T	MAIN	MECH	650	33	145	2-1/2"	1-1/2"	5	6	31	1
PHE-2	AMTROL	EC100-5102-2T	THERAPY	MECH	170	6	53	2"	1"	3	5	9	1
NOTES													
1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS													

HYDRONIC EXPANSION TANK SCHEDULE											
UNIT NO	MANUFACTURER	MODEL	SYSTEM	LOCATION	VOLUME		CONNECTION SIZE (IN)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	REMARKS
					TANK (GAL)	ACCEPTANCE (GAL)					
ET-2	AMTROL	200-L	POOL	MECH	53	53	1	24	38	205	1
ET-3	AMTROL	AX-240	GYM	MECH	132	46	1	30	82	990	1
NOTES											
1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS											

HYDRONIC CIRCULATOR PUMP SCHEDULE													
UNIT NO	MANUFACTURER	MODEL	LOCATION	MOTOR		HEAD (FT)	FLOW (GPM)	WEIGHT (LBS)	ELECTRICAL		STARTER/VFD FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
				HP	RPM				VOLTS	PH			
CP-6A	ARMSTRONG	4280	MECH	5	3000	45	300	125	480	3	MC	EC	1
CP-6B	ARMSTRONG	4380	MECH	2	4230	35	95	51	480	3	MC	EC	1
NOTES													
1. EC TO PROVIDE DISCONNECT, MC TO PROVIDE VFD, EC TO INSTALL													

PRCT120260913



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6021 12th St. E. Suite 200
Fife, WA 98424
P: 253-922-0446 | F: 253-922-0896



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PUYALLUP HIGH SCHOOL
NATATORIUM TI

105 7th St SW
PUYALLUP, WA 98371

MECHANICAL
SCHEDULES

1

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-

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PROJECT MANAGER:	JH

DRAWING No. of TOTAL

M6.00

DATE: 5/8/2026
SUBMITTAL: SD
PROJECT No. 250-241

CONSTRUCTION NOTES

- 1

1" WATER METER - TOTALIZING TYPE.
- 2

PROVIDE SUCTION DIFFUSER WITH STRAINER. (FULL SIZE SUCTION).
- 3

PROVIDE 200 MESH STRAINER. PROVIDE HOSE CONNECTION BLOW DOWN.
- 4

MANUAL BALANCING VALVE (10 GPM)
- 5

EMCS TEMPERATURE SENSOR WITH WELL MC TO INSTALL.
- 6

AUTOMATIC AIR VENT, PIPE TO NEAREST FLOOR SINK.
- 7

PROVIDE TIGHT SHUT-OFF BALANCING VALVE AND CHECK VALVE. TRIPLE DUTY VALVE MAY BE USED IN LIEU OF SEPARATE CHECK AND BALANCING VALVE.
- 8

REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY. SEE PLUMBING PLANS FOR LOCATION.
- 9

PIPE TO NEAREST FLOOR DRAIN OR FLOOR SINK.
- 10

ROUTE PIPE FULL SIZE TO DRAIN.
- 11

EXPANSION TANK, PER SCHEDULE. SET PRESSURE 2 PSI LESS THAN MAKE-UP WATER PRESSURE.
- 12

"TEE" BRANCH TAKE-OFF FROM FULL FLOW LOOP WITH A MINIMUM OF 12", AND A MAXIMUM OF 24" OF STRAIGHT PIPE FROM EACH OTHER.
- 13

CONCRETE HOUSEKEEPING PAD.
- 14

DRAIN VALVE.
- 15

BALANCING VALVE.
- 16

IMMERSSION THERMOMETER AND WELL ASSEMBLY
- 17

SYSTEM ASME PRESSURE RELIEF VALVE. (50PSI)
- 18

TO EMCS BY CONTROLS SUB-CONTRACTOR.
- 19

SPRING MOUNTED INERTIA BASE PER SECTION 230548.
- 20

PRESSURE GAUGE, 0-150 PSI.
- 21

FLEXIBLE EQUIPMENT CONNECTION.
- 22

DIFFERENTIAL PRESSURE SENSOR. INSTALLED BY MC. TO EMCS BY CONTROLS SUB-CONTRACTOR.
- 23

5 GALLON CHEMICAL FEED TANK WITH FUNNEL, FLOOR MOUNTED.
- 24

OUTDOOR AIR TEMPERATURE SENSOR BY EMCS. ONLY ONE REQUIRED PER BUILDING.
- 25

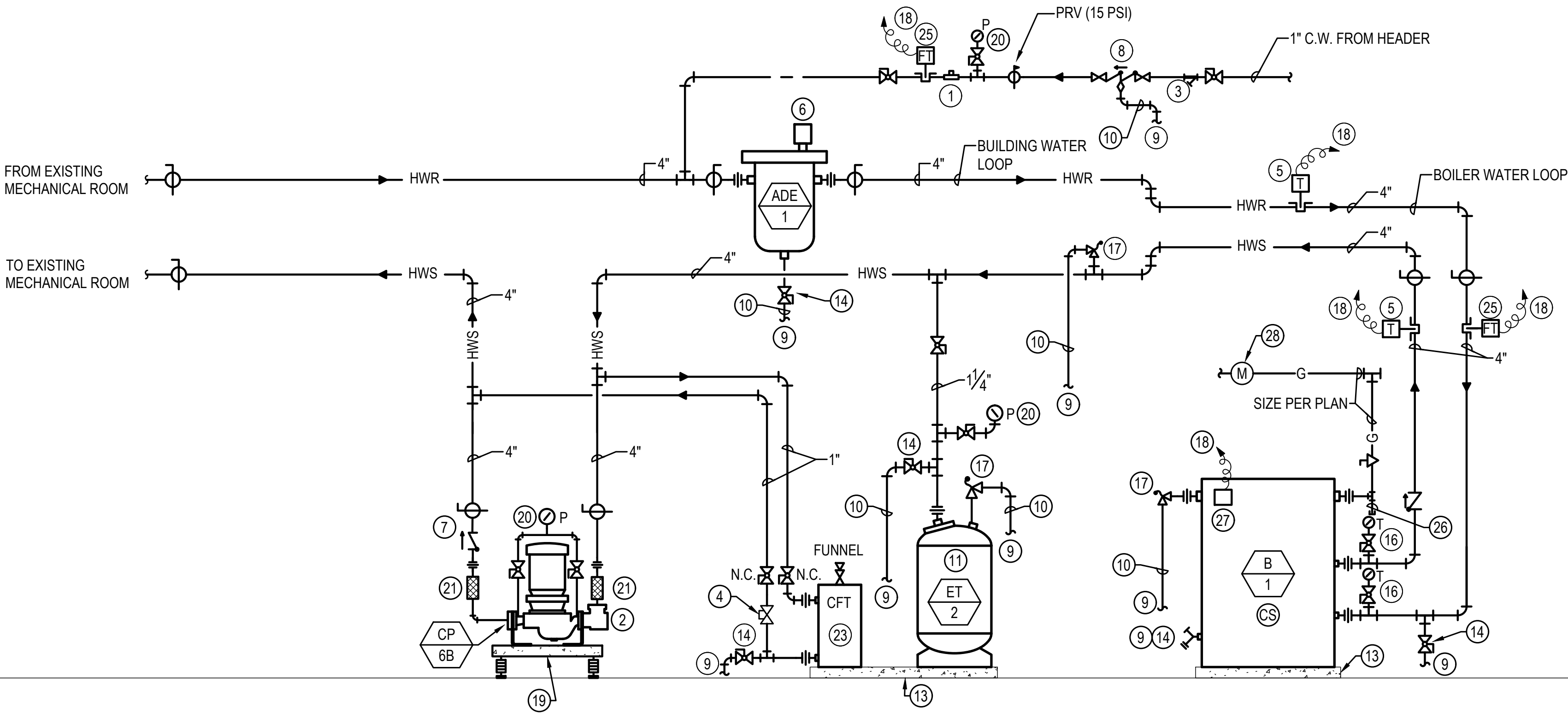
FLOW TRANSMITTER. CC TO PROVIDE AND WIRE. MC TO INSTALL.
- 26

DIRT LEG, 6" MINIMUM.
- 27

BOILER OPERATING, HIGH LIMIT AND CODE REQUIRED SAFETY CONTROLS. COORDINATE CONNECTIONS FROM BOILER TO EMCS WITH CONTROLS SUB-CONTRACTOR. REQUIRED REDUNDANT BOILER OPERATING CONTROLS, HIGH LIMIT SAFETY, FLAME FAIL DETECTION, LOW WATER LEVEL CONTROLS SHALL BE PROVIDED BY MANUFACTURER AS REQUIRED BY INTERNATIONAL MECHANICAL CODE.
- 28

NATURAL GAS CONSUMPTION METER. MC TO INSTALL, CC TO WIRE AND MONITOR.

MECHANICAL ROOM

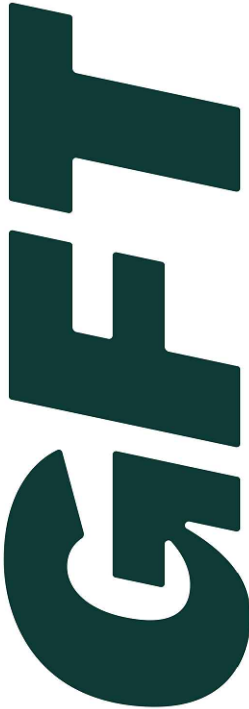
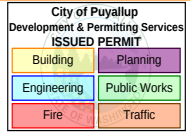


1

POOL HEATING HYDRONIC SYSTEM DIAGRAM

SCALE: DIAGRAMMATIC

PRCTI20260913

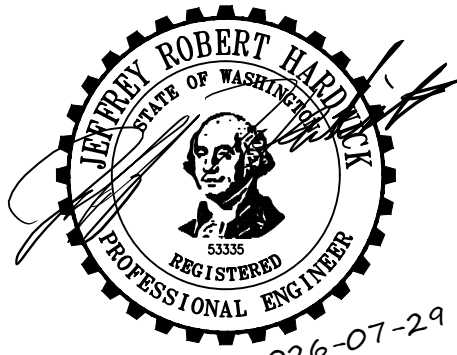


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PUYALLUP HIGH SCHOOL
NATATORIUM TI

105 7th St SW
PUYALLUP, WA 98371

MECHANICAL
DIAGRAM
LAYOUTS

REVISIONS

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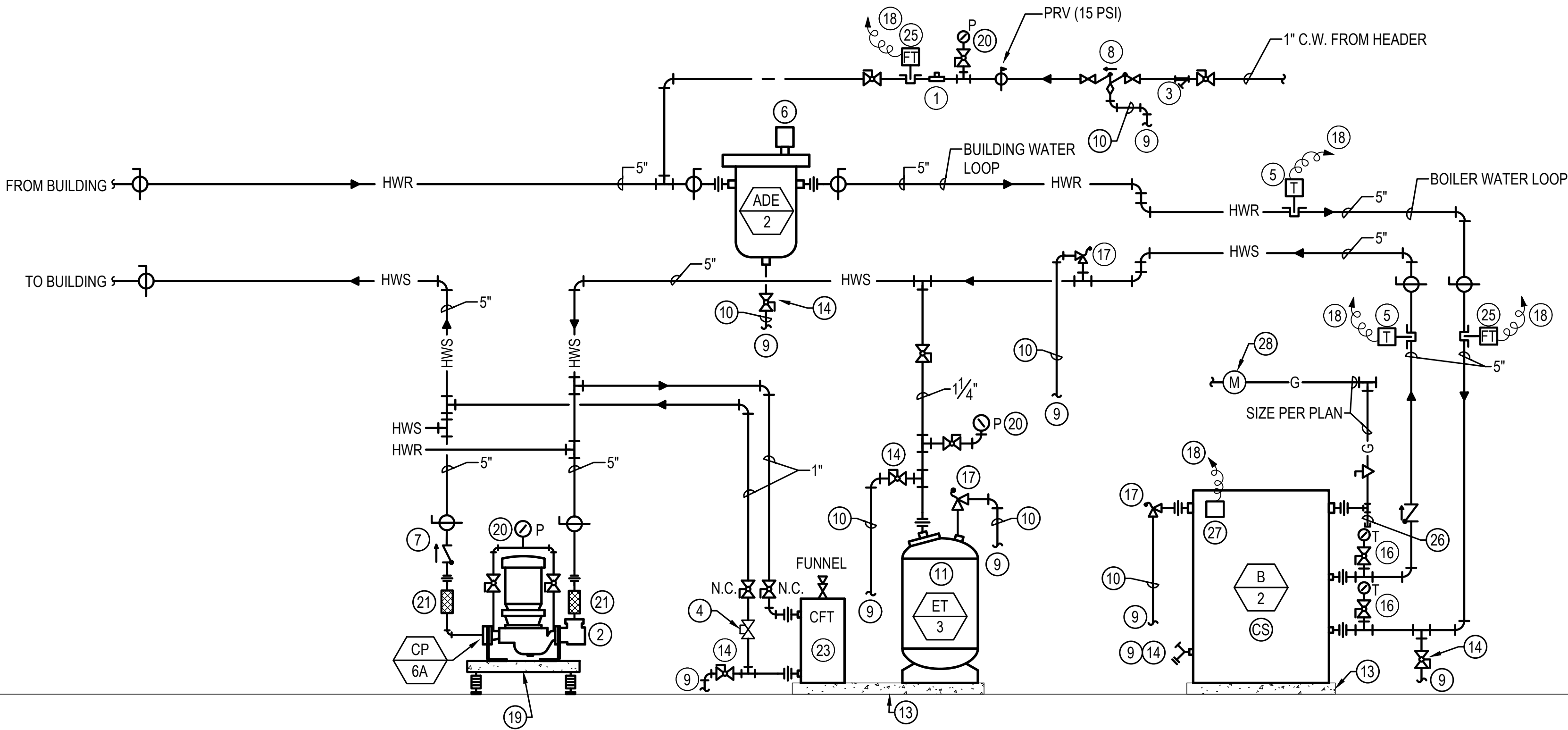
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- 3
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- 28
- NATURAL GAS CONSUMPTION METER. MC TO INSTALL, CC TO WIRE AND MONITOR.

MECHANICAL ROOM



1

BUILDING HEATING HYDRONIC SYSTEM DIAGRAM

SCALE: DIAGRAMMATIC

PRCTI20260913

City of Puyallup Development & Permitting Services 300401 PG-001	
Building	Planning
Engineering	Public Works
Fire	Traffic

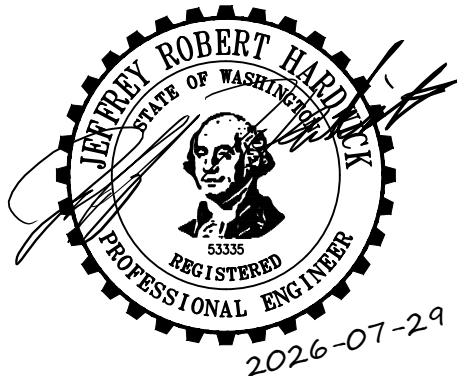
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NATATORIUM TI

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LAYOUTS

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