



HOSE BIBB									
MARK	NUMBER	CLIMATE	WALL BOX/REEL	VACUUM BREAKER	HOSE CONNECTION SIZE (*)	HANDLE	MANUFACTURER	MODEL NUMBER	NOTES
HB	1	NON-FREEZE	STAINLESS STEEL	INTEGRAL	3/4	LOOSE KEY	JAY R SMITH	5618	1,2

NOTES:  
 1. PROVIDE WITH LOOSE "T" KEY.  
 2. INTEGRAL VACUUM BREAKER.

BACKFLOW PREVENTION									
MARK	NUMBER	SERVICE	SIZE (*)	FLOW(GPM)	PRESSURE DROP(P/SI)	ACCESSORIES	MANUFACTURER	MODEL NUMBER	NOTES
RBPB	1	MAKEUP WATER	2	64	14	AIR GAP FITTING	WATTS	LF009-FS	1,2,3,4

NOTES:  
 1. PROVIDE WITH AIRGAP FITTING.  
 2. ROUTE AIRGAP DRAIN FULL LINE SIZE TO NEAREST INDIRECT RECEPTOR.  
 3. PROVIDE FLOOD PROTECTION BACKFLOW SYSTEM PVS-7000.  
 4. PRODUCT SHALL BE LEAD FREE.

PLUMBING MATERIAL STANDARDS MATRIX									
SERVICE ID	SERVICE DESCRIPTION	DESIGN...	SIZE	MATERIAL	JOINTS & FITTINGS	LOCATION FOR USE	REMARKS		
<b>DOMESTIC WATER - BELOW GRADE</b>									
DOW	DOMESTIC COLD WATER UNDERGROUND	125	2-1/2" AND SMALLER	HIGH DENSITY POLYETHYLENE (HDPE)	HEAT WELD	NO RESTRICTION			
		125	2-1/2" AND LARGER	SOLID WALL SCH. 80 PVC SCH 80CPVC	SOLVENT WELD	NO RESTRICTION	5,6,12		
<b>DOMESTIC WATER - ABOVE GRADE</b>									
DOW	DOMESTIC COLD WATER	125	2" AND SMALLER	COPPER TUBING - TYPE L	SOLDERED, 95-5 SOLDER, LEAD-FREE OR COPPER SWEAT, COPPER PRO PRESS	NO RESTRICTION			
				COPPER TUBING - TYPE L	PRESS-CONNECT JOINING, OR COPPER SWEAT, COPPER PRO PRESS	NO RESTRICTION			
				PEX TUBING ASTM F876 - ASTM F877	PIPE INSERT & EXPANSION COLLAR ASTM F1807/ASTM F1960	NO RESTRICTION	RUNOUT FROM MANIFOLD IN RESIDENCE		
				COPPER TUBING - TYPE L	GROOVED OR COPPER VICTAULIC	NO RESTRICTION			
				COPPER TUBING - TYPE L	PRESS-CONNECT JOINING OR COPPER VICTAULIC	NO RESTRICTION			
		230	ALL	COPPER TUBING - TYPE L	GROOVED OR VICTAULIC FITTING	NO RESTRICTION		1, 3, 5, 6, 7, 8, 9, 10, 12	
				STAINLESS STEEL	GROOVED OR VICTAULIC FITTING	NO RESTRICTION			
				COPPER TUBING - TYPE L	SOLDERED, 95-5 SOLDER, LEAD-FREE OR COPPER SWEAT, COPPER PRO PRESS	NO RESTRICTION			
				COPPER TUBING - TYPE L	PRESS-CONNECT JOINING, OR COPPER SWEAT, COPPER PRO PRESS	NO RESTRICTION			
				STAINLESS STEEL	GROOVED OR VICTAULIC FITTING	NO RESTRICTION			
<b>SANITARY WASTE &amp; VENT - ABOVE GRADE</b>									
SAN	SANITARY WASTE	5	ALL	CAST IRON NO HUB	NHCI FITTINGS	WASTE RISERS, FLOOR MOUNT FIXTURE TRAP ARMS & CLOSET BENDS, ABOVE UNIT CBUNGS, IN PLENUMS IN ALL COMMON AREAS	4, 5, 6, 7, 8		
SV	SANITARY VENT	5	ALL	CAST IRON NO HUB (OFFICE ONLY)	NHCI FITTINGS	NO RESTRICTION			
<b>SANITARY WASTE &amp; VENT - BELOW GRADE</b>									
SAN	SANITARY WASTE	5	ALL	CAST IRON NO HUB/SOLID CORE PVC	NHCI FITTINGS	NO RESTRICTION			
SV	SANITARY VENT	5	ALL	CAST IRON NO HUB	NHCI FITTINGS	NO RESTRICTION	4, 5, 6, 7, 8, 12		

REMARKS:  
 1. PER 2018 IBC WITH WASHINGTON AMENDMENTS EXCEPT SHALL NOT BE INSTALLED WITHIN THE DISTANCE OF 6" FROM CONNECTION TO WATER BATH.  
 2. NOT USED.  
 3. DOMESTIC COLD WATER SUPPLY PIPING SHALL NOT EXCEED 8 FPS. DOMESTIC HOT WATER PIPING SHALL NOT EXCEED 5 FPS.  
 4. ALL WASTE PIPES ARE TO BE ISOLATED FROM BUILDING STRUCTURE USING A CLOSED CELL NEOPRENE SLEEVE.  
 5. EXCEPT FOR PENETRATIONS, PIPES ARE TO BE INSTALLED IN ALL RETURN AIR PLENUMS. PVC & ABS ARE NOT ALLOWED IN RETURN AIR PLENUMS.  
 6. CEILING CAVITIES SURROUNDING WASTE PIPES OR ROOF DRAIN LINES ARE TO BE FILLED WITH BATT INSULATION.  
 7. FLOOR PENETRATIONS ARE TO BE PACKED WITH ROCK WOOL OR FIBERGLASS INSULATION AND SEALED WITH A RESILIENT FIRE CAULK. PIPING SHALL BE PREVENTED FROM MAKING RIGID CONTACT WITH THE STRUCTURE AT THESE PENETRATIONS.  
 8. INSULATE ALL METAL UNDERGROUND WATER LINES WITH PIPES OR INSULATION.  
 9. PIPES SHALL BE INSULATED PER WASHINGTON STATE ENERGY CODE (EC) REQUIREMENTS EXCEPT WHERE NOTED OTHERWISE.  
 10. PIPES SHALL BE INSULATED PER WASHINGTON STATE ENERGY CODE (EC) REQUIREMENTS EXCEPT WHERE NOTED OTHERWISE.  
 11. NOT USED.  
 12. ALL BURIED PLASTIC PIPING INCLUDING PVC AND CPVC SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2221 AND ASTM F 1668 STANDARDS.  
 13. NOT USED.  
 14. 1/2" AND LARGER NATURAL GAS PIPING, STANDARD WEIGHT PIPE SCH 40 ASTM A53 B AND BUTT WELD FITTINGS ALLOWED.  
 15. SOCKET WELD FOR IN-SHAFT OR ENCLOSURES.  
 16. PEX PIPE ALLOWED FOR IN-WALL APPLICATIONS (EXCLUDES RISERS SPANNING MORE THAN ONE LEVEL).

PLUMBING DRAIN SCHEDULE										
DRAIN TYPE : FLOOR DRAIN										
UNIT IDENTIFICATION	LOCATION	BODY		SIZE (*)	STRAINER		VARIATIONS	MODEL	MANUFACTURER	NOTES
		MATERIAL	STYLE		MATERIAL	STYLE				
FS-1	LEVEL 1 GRIDLINE A7	STAINLESS STEEL		4	STAINLESS STEEL	3/4 GRATE		3100	JAY R SMITH	1,2

NOTES:  
 1. REFER TO 3/P.FT.501 FOR FLOOR SINK AND TRAP PRIMER DETAIL FOR INSTALLATION INFORMATION.  
 2. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION.

Project Plumbing Load & Utility Coordination Matrix							
	# of Fixtures	WSFU/EACH	Total WSFU	HWFU/EACH	Total HWFU	DFU/ EACH (CHAPTER 7)	Total DFU (CHAPTER 7)
Misc							
HoseBib-1st	1	2.5	2.5	0.0	0.0	0.0	0.0
<b>Non-Residential Total</b>			2.5	0.0		0.0	
<b>BUILDING TOTALS:</b>							
Residential - Flush Valves or Flush...			Valve			Total Non-Residential Drainage GPM	
Total Residential Domestic WSFU:			0.0			20	
Total Domestic Water GPM:			0.0				
Total Non-Residential Domestic WSFU:			2.5				
Total Non-Residential Domestic GPM:			2.0				
HVAC makeup water GPM:			64.0				
Building Total Domestic Water GPM:			66.0				
WSFU Notes: Total GPM is obtained by converting the total WSFU to GPM. This value will be less than the sum of the individual GPM's due to diversity in the conversion from WSFU to GPM.							
<b>Domestic Water Utility Coordination</b>							
Domestic Water Meter Size		2"		66 GPM		connected to 100 GPM	
Domestic Water Main Size (Within Bldg)		2.0"				Max GPM at selected meter size:	
<b>Sanitary Sewer Utility Coordination</b>							
Pipe slope within garage		1/8" per ft					
Total DFU		0					
Sanitary Sewer Size (if 1 POC)		12"					
Total Estimated SS Flowrate		20 GPM		MINIMUM OF ASPE TABLE OR 90% OF SUPPLY			
Sanitary Sewer Size (if multiple, evenly size connections)		1		SS CONNECTIONS REQUIRED FOR INSTANTANEOUS DUMP			

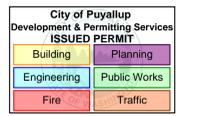


**MECHANICAL DRAWINGS**

CENTERS  
 FUTURE TENANT  
 1019 39th AVENUE SE  
 PUYALLUP, WA 98374



Revision No.	Description	Date
1	FUTURE TENANT PERMIT	8/30/2024
2	FUTURE TENANT PERMIT COMMENTS	10/01/2024



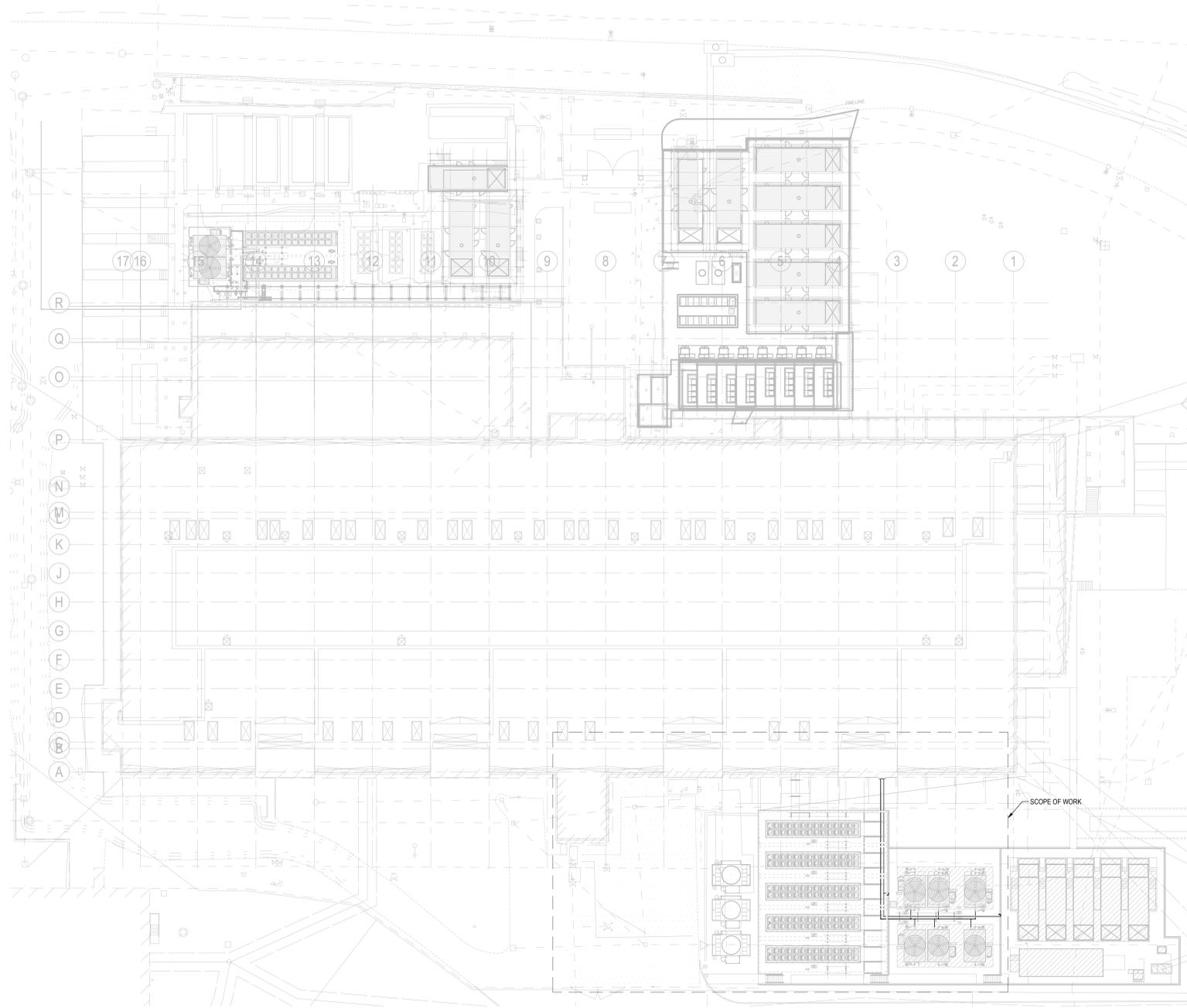
Drawn By: JLV Checked By: BO

PLUMBING SCHEDULES

Sheet **P.FT.010**

**MECHANICAL  
DRAWINGS**

CENTERIS  
FUTURE TENANT  
1019 39th AVENUE SE  
PUYALLUP, WA 98374



Revision No. Description Date



Drawn By: JLV Checked By: BO

**1 PLUMBING SITE PLAN**  
P.FT.101 1" = 30'-0"

Title: PLUMBING SITE PLAN

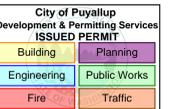
Sheet: **P.FT.101**

MECHANICAL  
DRAWINGS

CENTERIS  
FUTURE TENANT  
1019 39th AVENUE SE  
PUYALLUP, WA 98374



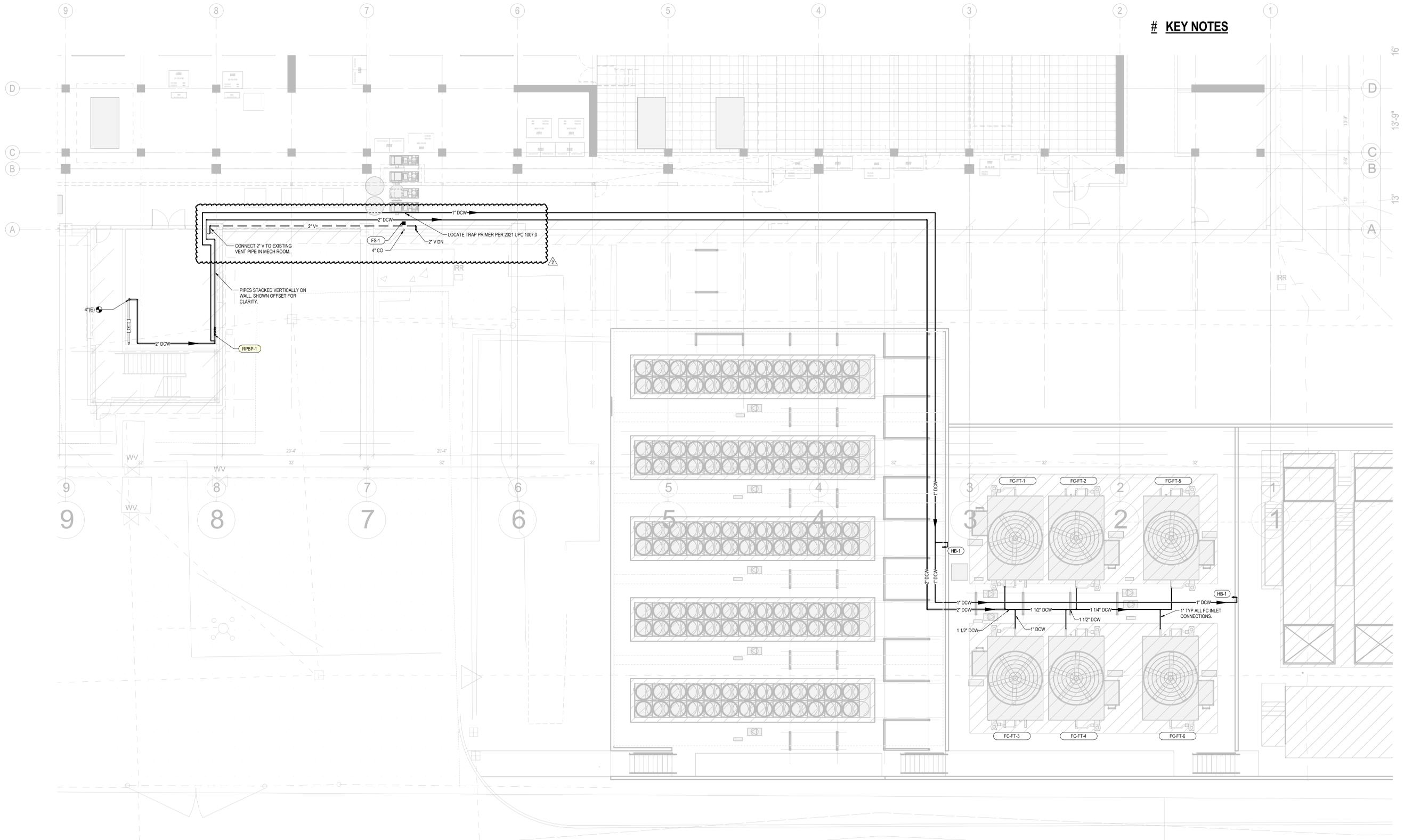
Revision No.	Description	Date
1	FUTURE TENANT PERMIT	8/30/2024
2	FUTURE TENANT PERMIT COMMENTS	10/01/2024



Drawn By: JLV Checked By: BO

PLUMBING LEVEL 1  
PLAN

P.FT.102



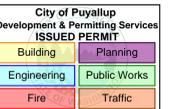
**1 LEVEL 1 PLUMBING PLAN**  
P.FT.102 1/8" = 1'-0"

MECHANICAL  
DRAWINGS

CENTERIS  
FUTURE TENANT  
1019 39th AVENUE SE  
PUYALLUP, WA 98374



Revision No.	Description	Date
1	FUTURE TENANT PERMIT	8/30/2024
2	FUTURE TENANT PERMIT COMMENTS	10/01/2024



Drawn By: JLV Checked By: BO

PLUMBING LEVEL  
BELOW GRADE

Sheet **P.FT.102U**



**1 PLUMBING - BELOW GRADE PLAN**

R.FT.102U 1/8" = 1'-0"

MECHANICAL  
DRAWINGS

CENTERIS  
FUTURE TENANT  
1019 39th AVENUE SE  
PUYALLUP, WA 98374



Revision No.	Description	Date
1	UPS 14RD EQUIPMENT PERMIT SET	2/8/2024
1	UPS & BATTERY ROOM INTERIORS	2/16/2024
1	FUTURE TENANT PERMIT	2/23/2024
2	FUTURE TENANT PERMIT	8/30/2024
2	FUTURE TENANT PERMIT	10/01/2024
	COMMENTS	

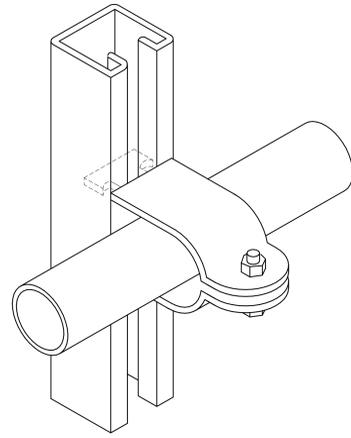
City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

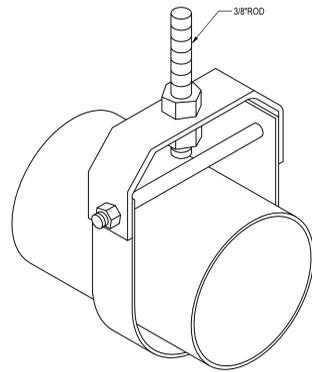
Drawn By: JLV Checked By: BO

Title: PLUMBING DETAILS

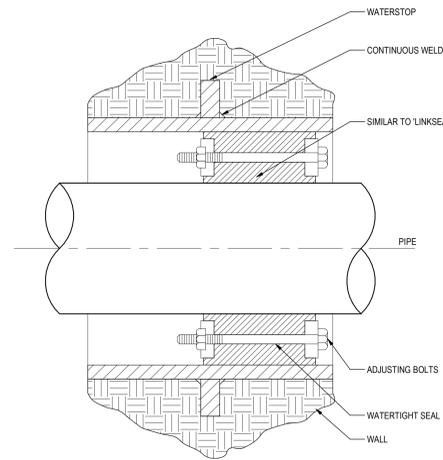
Sheet: P.FT.501



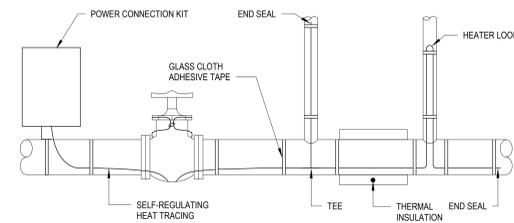
5 WALL BRACKET DETAIL  
P.FT.501 NOT TO SCALE



6 CEILING HANGER DETAIL  
P.FT.501 NOT TO SCALE

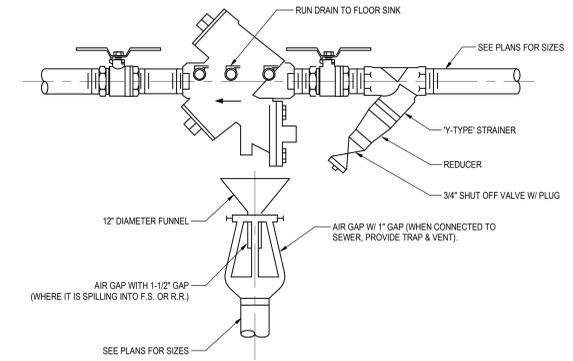


7 TYPICAL EXTERIOR WALL PENETRATION WALL GRADE  
P.FT.501 NOT TO SCALE

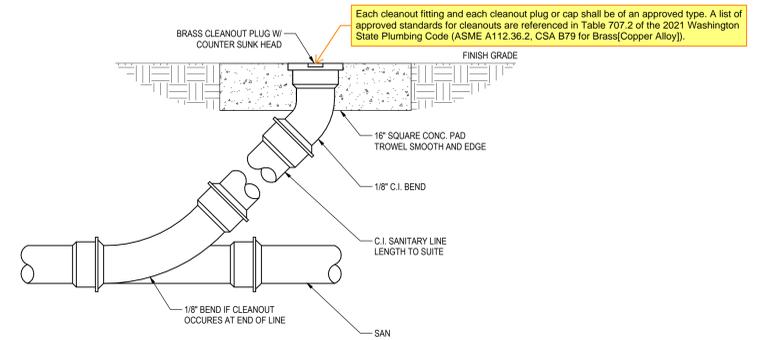


- NOTES:
1. PROVIDE HEAT TRACE FOR ALL WATER PIPING LOCATED OUTDOORS
  2. INSULATE THE PIPING.
  3. REFER TO THE CONTRACT DOCUMENTS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
  4. FOLLOW MFRS INSTALLATION DETAILS FOR THE REQUIRED CABLE COVERAGE TO FULLY PROTECT THE SYSTEM.

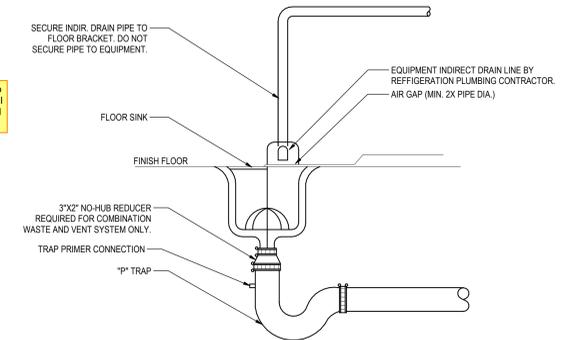
8 HEAT TRACE DETAIL  
P.FT.501 NTS



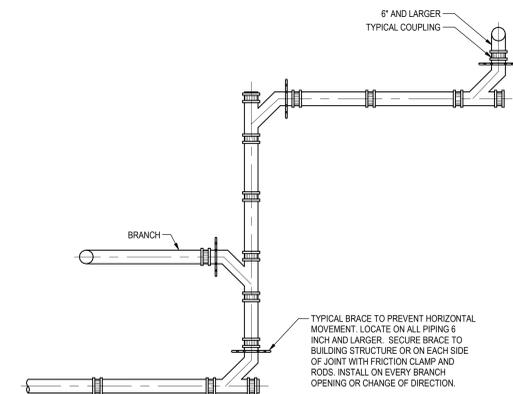
1 BACKFLOW PREVENTER DRAIN  
P.FT.501 NOT TO SCALE



2 CLEANOUT TO GRADE  
P.FT.501 NOT TO SCALE



3 TYPICAL INDIRECT DRAIN DISCHARGE DETAIL  
P.FT.501 NOT TO SCALE



4 HUBLESS PIPE BRACING FOR HORIZONTAL PIPING  
P.FT.501 NOT TO SCALE