

### PLUMBING LEGEND

AFF	..... ABOVE FINISHED FLOOR	— — — — — (CW) COLD WATER
ARCH	..... ARCHITECTURAL	— — — — — (HW) HOT WATER
B.G.	..... BELOW GRADE	— — — — — (HWR) HOT WATER RECIRC
BTU	..... BRITISH THERMAL UNIT	— — — — — (W) BELOW GRADE WASTE
CAP.	..... CAPACITY	— — — — — (W) ABOVE GRADE WASTE
C.I.	..... CAST IRON	— — — — — (V) VENT
COMP.	..... COMPARTMENT	— — — — — (RD) RAIN DRAIN
CONT.	..... CONTINUATION	— — — — — (OD) OVERFLOW RAIN DRAIN
CU.	..... CUBIC	— — — — — (G) NATURAL GAS
DIA.	..... DIAMETER	— — — — — (F) FIRE WATER
ELEV.	..... ELEVATION	
FD	..... FLOOR DRAIN	
FDC	..... FIRE DEPARTMENT CONNECTION	
F.F.	..... FINISH FLOOR	
FLG.	..... FLANGE	
FT	..... FOOT / FEET	
G	..... GAS	
GA.	..... GAUGE	
GALV.	..... GALVANIZED	
GPM	..... GALLONS PER MINUTE	
G.V.	..... GATE VALVE	
HP	..... HORSEPOWER	
kw	..... KILOWATT	
LAV	..... LAVATORY	
LBS	..... POUNDS	
MAX.	..... MAXIMUM	
MBH	..... THOUSANDS OF BTUs PER HOUR	
MIN.	..... MINIMUM	
M.J.	..... MECHANICAL JOINT	
N.I.M.	..... NOT IN MECHANICAL	
PROT.	..... PROTECTION	
PRV	..... PRESSURE REDUCING VALVE	
PSI, PSIG	..... POUNDS PER SQUARE INCH	
P/T	..... PRESSURE / TEMPERATURE	
REQ'D	..... REQUIRED	
TYP.	..... TYPICAL	
VTR	..... VENT THROUGH ROOF	
WC	..... WATER CLOSET	

  

	..... EQUIPMENT MARK NUMBER		..... PRESSURE/TEMP RELIEF VALVE
	..... FIXTURE MARK		..... BUTTERFLY VALVE
	..... NOTE		..... GAS PRESSURE REGULATING VALVE
			..... PIPE TURNED UP, PIPE TURNED DOWN
			..... GATE VALVE
			..... BALL VALVE
			..... BALANCING VALVE
			..... CHECK VALVE
			..... UNION
			..... DOUBLE CHECK ASSEMBLY
			..... CAP
			..... TEE
			..... ELBOW
			..... CLEANOUT

### PLUMBING CALCULATIONS

FIXTURE TYPE	NUMBER OF FIXTURES	DOMESTIC WATER SERVICE			SANITARY WASTE SERVICE		
		WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BAR SINK (GENERAL USE)	1	2	2	1.5	1.5	2	2
CLINICAL SINK	1	8	8	6	6	6	6
CLOTHES WASHER	4	4	16	12	12	3	12
KITCHEN SINK (ONE 1-1/2" TRAP)	2	1.5	3	2.25	2.25	2	4
KITCHEN SINK (DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	13	1	13	9.75	9.75	1	13
MOP BASIN	1	3	3	2.25	2.25	3	3
SHOWERS, (STALL)	8	2	16	12	12	2	16
WATER CLOSET (1.6 GPF FLUSHOMETER TANK-GENERAL)	13	2.5	32.5	32.5	0	4	52
HOSE BIBB (FIRST ONE)	1	2.5	2.5	2.5	0	---	---
HOSE BIBB (EACH ADDITIONAL)	2	1	2	2	0	---	---
<b>TOTAL</b>	<b>47</b>		<b>101</b>	<b>85</b>	<b>48</b>		<b>110</b>
		<b>GPM</b>	<b>68</b>	<b>63</b>	<b>28</b>	<b>WASTE SIZE</b>	<b>4"</b>
		<b>Pipe size</b>	<b>2-1/2"</b>				
		<b>Water Meter</b>	<b>2"</b>				

### PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	KITCHEN EQUIP # (KES #)	W	V	CW	HW105	HW140	G	GAS INPUT	KES *	UDS *	REMARKS
WC-1	WATER CLOSET ***		4"	2"	1/2"							FLUSH TANK, FLOOR MOUNT, ADA
WC-2	WATER CLOSET		4"	2"	1-1/2"							FLUSH VALVE, FLOOR MOUNT, ADA
LV-1	LAVATORY **		1-1/2"	1-1/2"	1/2"	1/2"						WALL HUNG RECTANGULAR, SINGLE LEVER FAUCET, GRID STRAINER
SH-1	SHOWER - SINGLE		2"	1-1/2"	1/2"	1/2"						FIBERGLASS
SH-2	SHOWER - SINGLE ADA		2"	1-1/2"	1/2"	1/2"						FIBERGLASS
LD-1	LINEAR DRAIN, SHOWER		2"	V.L.								ZURN ZS880 W/ GRATE
CW-1	CLOTHES WASHER FITTING	WASH MACH SUPPLY BOX	2"	2"	1/2"	1/2"						GUY GRAY SSWB1
CW-2	CLOTHES WASHER FITTING		2"	2"	1/2"		1/2"					STAFF-COMMERCIAL
BS-1	BAR SINK		2"	1-1/2"	1/2"							STAINLESS STEEL, COLD WATER ONLY
CS-2	CLINIC SINK		2"	1-1/2"	1/2"		1/2"					STAINLESS STEEL
DF-1	DRINKING FOUNTAIN		1-1/2"	1-1/2"	1/2"							W/BOTTLE FILLER
SS-1	MOP SINK		3"	2"	1/2"		1/2"					24"x 24" MOLDED STONE, W/ 2" X Y" CORNER/MATERIAL
HS-1	SINK, HAND WASH **	HAND SINK W/ FAUCET	2"GW	1-1/2"	1/2"	1/2"				8		1-COMP, WALL MOUNT W/ FAUCET
S-1	SINK, PREP	PREP SINK W/FAUCET	2"GW	1-1/2"	1/2"		1/2"			31		1-COMP - W/ WALL MOUNT FAUCET
S-2	SINK, PRE-RINSE	PRE-RINSE ASSEMBLY	2"GW	1-1/2"	1/2"		1/2"			27/25		1-COMP - W/ WALL MOUNT PRE-RINSE FAUCET
DW-1	WAREWASHER		2"GW	1-1/2"			1/2"			28		DOOR TYPE, HIGH TEMP
FW-1	FILTERED WATER SYSTEM	SERVING CONVECTION OVEN	IW		1/2"					42		PROVIDE RP DEVICE, WASTE TO FS-1
FD-1	FLOOR DRAIN		3"	V.L.								J.R. SMITH 2005A (ROUND)
FD-2	FLOOR DRAIN		2"	V.L.								J.R. SMITH 2005A (ROUND)
FD-3	FLOOR DRAIN		3"GW	V.L.								J.R. SMITH 2005A (ROUND)
HB-1	HOSE BIBB				3/4"							VACUUM/FREEZE PROTECTED
CO	CLEAN OUT		X"									SIZE TO MATCH WASTE PIPE
FS-1	FLOOR SINK		4"	V.L.								J.R. SMITH 3150 ENAMELED CAST IRON, HALF GRATE
FS-2	FLOOR SINK		2"	V.L.								J.R. SMITH 3140 ENAMELED CAST IRON, HALF GRATE

PROVIDE CLEAN-OUTS BELOW ALL SINKS AND LAVS.  
 PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS  
 PROVIDE RP DEVICE AHEAD OF ICE MAKER/COFFEE AND BEVERAGE DISPENSER.

GW - GREASE WASTE  
 V.L. - VENTED LINE  
 IW - INDIRECT WASTE

KES-\* - EQUIPMENT SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER (KES) OR OWNER. ALL ROUGH IN WORK AND FINAL CONNECTIONS BY DIVISION 15. DIVISION 15 CONTRACTOR TO PROVIDE ALL TRAPS, STOPS AND OTHER REQUIRED ACCESSORIES.

\*\* - PROVIDE WITH ASSE 1090 CERTIFIED TEMPERING VALVE ACORN ST70  
 \*\*\* - MATCH EXISTING TANK TYPE TOILET

Portland Water Bureau Development Services 1120 SW 5<sup>th</sup> Avenue Portland OR 97204

## Water Meter Sizing Worksheet

### Commercial or Mixed Use

Revised: May 2008 According to UPC-2005-Appendix A

# W-4

Phone: 503-823-7368 email: devrev@portlandoregon.gov

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Building Permit Number	Service Address
	Foster Rd Shelter

  

(1) Type of Fixture	(2) Total Fixtures in New/Remodeled Structure	(3) Fixture Values	(4) Total Fixture Unit Value
Bar sink	1	x 2.0	= 2.0
Bathtub or Tub/Shower		x 4.0	=
Clinic Sink	1	x 3.0	= 6.0
Clothes Washer	6	x 4.0	= 24.0
Dishwasher	1	x 1.5	= 1.5
Drinking Fountain	1	x 0.5	= 0.5
Hose Bibb, 1 <sup>st</sup> one	1	x 2.5	= 2.5
Hose Bibb, each additional		x 1.0	=
Kitchen Sink	4	x 1.5	= 6.0
Laundry Sink		x 1.5	=
Lavatory Sink	13	x 1.0	= 13.0
Mop or Service Sink	1	x 3.0	= 3.0
Shower	8	x 2.0	= 16.0
Urinal, 1.0 GPF		x 5.0	=
Urinal, >1.0 GPF		x 4.0	=
Water Closet, 1.6 GPF Gravity Tank		x 2.5	=
Water Closet, 1.6 Flushometer Valve	13	x 25.0	= 325
Water Closet, >1.6 Flushometer Valve		x 25.0	=
<b>Total Fixture Units:</b>			<b>399.5</b>

Note: Fixture units for flushometers are approximate values. Values will be reviewed and may be adjusted by Portland Water Bureau Staff on a case-by-case basis.

  

Instructions	Fixture Unit Count (column 4 total)	Required Meter Size
Column 2: Enter the total number of each fixture type for the completed new structure. If the project has an existing structure that will be using the same water meter enter the total number of each fixture type for the completed project.	0 - 22	5/8" meter
	22.5 - 37	3/4" meter
	37.5 - 89	1" meter
	89.5 - 286	1.5 meter
Column 3: Per unit value of each fixture type	286.5 - 532	2" meter
	532.5 - 1,300	3" meter
	1,300.5 - 3,600	4" meter
	3,600.5 - 8,200	6" meter
Column 4: Enter the number of column 2 times column 3		

Note: There may be SDC credit if existing meters are utilized or removed. SDC fees are not assessed to fire lines. Fees are due at the time the water service installation is paid. Call Portland Water Bureau Development Services, 503-823-7368 with any questions.

PWB 0608, Rev 4 07/16

RECORD DRAWING:  
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AS-BUILT PREPARED 1.22.2020

FOSTER SHELTER  
 6144 SE FOSTER RD., PORTLAND, OREGON 97206  
 CLIENT: MULTNOMAH COUNTY

PROJECT NO. 17-0918 ISSUE DATE 05.04.2018  
 REVISIONS  
 CHECKSHEET 5.23.2018  
 OWNER CHANGES 2.26.2019

SHEET  
 PLUMBING SCHEDULES  

# P6.0

  
 PERMIT SET  
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