District of Saanich
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Water Sizing Sheet

District of Saanich – Inspection Services

BUILDING BYLAW LICENSING & LEGAL SERVICES

Address: _____ Date: _____

Number of Fixtures an Fixture Units (2018 Code) for Single Family Dwelling/Duplex Plumbing Applications

	No. of Fixtures	FU load/fixture	Total Fu
Bar Sink		.75	
Basin*		.7	
Bathtub (with or without shower)		1.4	
Clothing Washer		1.4	
Dishwasher		1.4	
Kitchen Sink**		1.4	
Laundry Sink**		1.4	
Shower (per head)***		1.4	
Water Closet)****		2.2	
Sub Total			

Hose Bibs		2.5	

FIXTURE UNITS/HYDRAULIC TOTALS

	No. of installed
SFD Service Laterals	
Area Sump/Catch Basin	
Irrigation System	
Swimming Pool	
Sprinkler Heads (first 5)	
Additional Heads (each 10)	
Sewer/Drain/Water	
Floor Drains	

*1.0 FU if greater than 8.3 LPM

**2.0 FU if greater than 8.3 LPM

***2.0 FU if greater than 9.5 LPM

****3.0 FU if greater than 6 LPF

Sizing of Water Distribution Systems

Size **of Water Pipe, inches**	**Water Velocity, m/s**		
	3.0	**2.4**	**1.5**
	Max. Hydraulic Load, *fixture units*		
½	8	7	4
¾	21	16	9
1	43	31	18
1 ¼	83	57	30

Pipe velocity

1.5 m/s (5ft/s)
- copper hot

2.4 m/s (8ft/s)
- copper cold
- plastic

Min. Water Pipe Size * **	