Water Meter Sizing Calculation Sheet

For Non-Fire Service Meters

AWWA M22 Fixture Value Methodology

General Information

Customer Name: _____ PID # _____

Address: _____ Building Permit # _____

_____

Occupancy Type: Industrial ☐ Commercial ☐ Institutional ☐

Multi-Family Residential ☐ Agricultural ☐ Other ☐ _____

Is this a phased development? Yes ☐ No ☐

Calculations pertain to: Buildout ☐ Phase ☐ Phase No. _____

Step 1: Calculate Total Domestic Fixture Value

Fixture	Fixture Value (GPM @ 60 psi)		No. of Fixtures		Fixture Value
Bathtub	8	x		=	
Bedpan Washers	10	x		=	
Bidet	2	x		=	
Dental Unit	2	x		=	
Dishwasher	2	x		=	
Drinking Fountain - Public	2	x		=	
Hose Bibs (c/w 50 ft wash down):					
- 1/2 inch	5	x		=	
- 5/8 inch	9	x		=	
- 3/4 inch	12	x		=	
Kitchen Sink	2.2	x		=	
Lavatory	1.5	x		=	
Showerhead (Shower Only)	2.5	x		=	
Service Sink	4	x		=	
Toilet:					
- Flush Valve	35	x		=	
- Tank Type	4	x		=	
Urinal:					
- Pedestal Flush Valve	35	x		=	
- Wall Flush Valve	16	x		=	
Wash Sink (Each Set of Faucets)	4	x		=	
Washing Machine	6	x		=	

City of Burnaby

Water Meter Sizing Calculation Sheet

Step 1 (cont.)

Fixture	Fixture Value (GPM @ 60 psi)		No. of Fixtures		Fixture Value
Other:					
		x		=	
		x		=	
		x		=	

Total Domestic Fixture Value = _____ **GPM (A)**

Step 2: Calculate Probable Peak Domestic Demand

Refer to Figure 4-2 or 4-3

Probable Peak Domestic Demand = _____ **GPM (B)**

Step 3: Apply Pressure Adjustment Factor

City Water System Pressure = _____ psi

Pressure Factor from Table 4-1 = _____ (C)

Adjusted Peak Domestic Demand (B x C) = _____ **GPM (D)**

Step 4: Identify Irrigation Demand

Total Irrigation Demand = _____ **GPM (E)**

For irrigation demands greater than 50 GPM, a detailed irrigation plan shall be provided with appropriately designed zones.

Step 5: Calculate Total Peak Demand

Total Peak Demand (D + E) = _____ **GPM (F)**

Step 6: Recommend Water Meter Size *

Water Meter Size = _____ inches

Based on Water Meter Make / Model = _____

Water Service Connection Size = _____ inches

* Water meters are supplied and installed by the City.

Professional Certification

Seal

Name: _____

Company: _____

Date: _____

Comments: _____