



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 _____ =	_____



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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 *

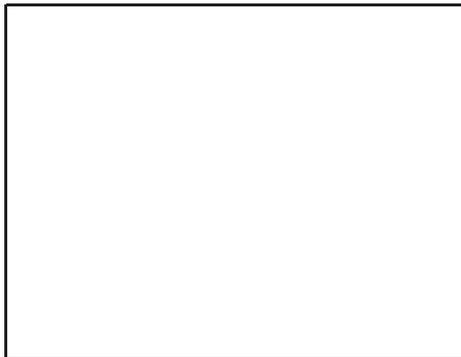
Water Meter Size = _____ inches

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: _____

