

Determining Water Pipe and Meters Sizes

Project Address: _____

General Information

Water piping systems shall be designed and installed to meet the minimum standards set forth in Chapter 6 of the current California Plumbing Code.

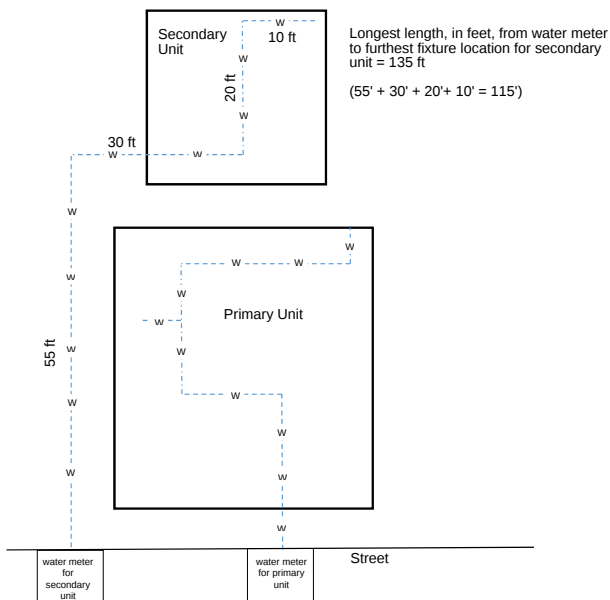
*The length shall be the distance from the water meter (usually located at the street) to the furthest fixtures.

*The size of the water Meter and street service as well as the building supply and branches are calculated per CPC Table 610.4.

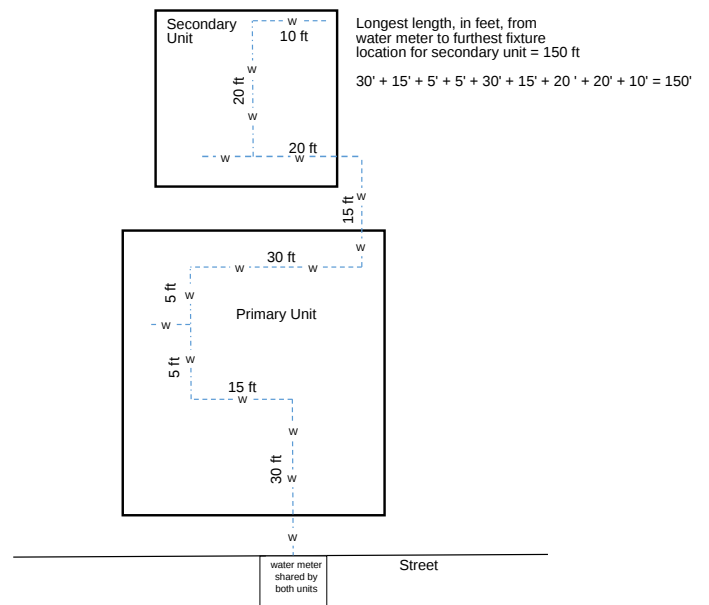
*Subtract, from the available water pressure provided, one-half (1/2) pound per square inch pressure for each foot of difference in elevation between such source of supply and highest water supply outlet in the building or on the premises.

- 1) Length in feet (L) from water meter to furthest fixture location: _____
- 2) Elevation difference between water meter and highest water supply outlet: _____
- 3) Total number of fixtures units as computed from CPC table 610.3 (see page 2 of this form): _____
- 4) Size of existing meter (3/4" or 1", etc.) : _____
- 5) Required size of meter (3/4", 1", etc.) from CPC table 610.4 (see page 2 of this form) : _____

Example of Separate Water Lines for Each Dwelling Unit



Example of Water Line Shared by Both Dwelling Units



Project Address: _____

TABLE 610.3 INSTRUCTIONS:
If second unit and primary unit will share the same water meter, please complete Column A, Column B, and Column D.
If the second unit will have a dedicated water line and a separate water meter, please complete only Column B and Column D.

CALIFORNIA PLUMBING CODE, TABLE 610.3
WATER SUPPLY FIXTURE UNITS (WSFU) AND MINIMUM FIXTURE BRANCH PIPE SIZES

APPLIANCES, APPURTENANCES OR FIXTURES ²	MINIMUM FIXTURE BRANCH PIPE SIZE (Inches)	COLUMN A QUANTITY OF EACH FIXTURE IN PRIMARY DWELLING UNIT	COLUMN B QUANTITY OF EACH FIXTURE IN SECONDARY DWELLING UNIT	COLUMN C UNITS PER FIXTURE	COLUMN D TOTAL OF BOTH PRIMARY AND SECONDARY FIXTURES COMBINED, MULTIPLIED BY UNITS PER FIXTURE [COLUMN A + COLUMN B] X COLUMN C
Bathtub Alone (with ½" bathtub fill valve) OR Combination Bathtub with Shower (with ½" bathtub fill valve)	½			4.0	
Bathtub Alone (with ¾" bathtub fill valve) OR Combination Bathtub with Shower (with ¾" bathtub fill valve)	¾			10.0	
Bidet	½			1.0	
Clothes Washer	½			4.0	
Dishwasher, domestic <i>(Where the dishwasher is not directly plumbed to a kitchen sink drain)</i>	½			1.5	
Hose Bibb <i>(A hose bib is a small faucet on the exterior of the home.)</i>	½			2.5	
Hose Bibb, each additional	½			1.0	
Lavatory <i>(A lavatory is a plumbing fixture used for washing hands, arms, face and head, such as a bathroom sink.)</i>	½			1.0	
Lawn Sprinkler, each head	-----			1.0	
Mobile Home or Manufactured Homes, each (minimum)	-----			6.0	
Sinks	-----	-----	-----	-----	-----
Bar Sink	½			1.0	
Kitchen Sink <i>(with or without dishwasher directly plumbed to the kitchen sink drain)</i>	½			1.5	
Laundry Sink	½			1.5	
Shower, per head <i>(no bathtub)</i>	½			2.0	
Water Closet, 1.6 GPF Gravity Tank <i>(i.e. toilet)</i>	½			2.5	
Water Closet, greater than 1.6 GPF Gravity Tank <i>(i.e. toilet)</i>	½			3.0	
Other: _____					
Other: _____					
Primary Dwelling Unit Fixture Unit Subtotal:	Second Dwelling Unit Fixture Unit Subtotal:		TOTAL COMBINED FIXTURE UNITS:		

TABLE 610.4 INSTRUCTIONS:
Using the total calculated water fixture units from the table above and the length in feet from the water meter to the furth location, please highlight the below table to indicate the required Meter and Street Service size and the required Building Branches size.
[Note: Pressure Range 46 to 60 psi is required by City of Roseville for prescriptive calculations.]

CITY WATER METER & CITY WATER STREET SERVICE SIZE	BUILDING SUPPLY AND BRANCHES SIZE	MAXIMUM ALLOWABLE LENGTH (feet)															
		40	60	80	100	150	200	250	300	400	500	600	700	800	900	1000	
3/4"	1/2"	7	7	6	5	4	3	2	2	1	1	1	0	0	0	0	
3/4"	3/4"	20	20	19	17	14	11	9	8	6	5	4	4	3	3	3	
3/4"	1"	39	39	36	33	28	23	21	19	17	14	12	10	9	8	8	
1"	1"	39	39	39	36	30	25	23	20	18	15	12	10	9	8	8	
3/4"	1-1/4"	39	39	39	39	39	39	34	32	27	25	22	19	19	17	16	
1"	1-1/4"	78	78	76	67	52	44	39	36	30	27	24	20	19	17	16	
1"	1-1/2"	85	85	85	85	85	85	80	67	55	49	41	37	34	32	30	
1"	2"	85	85	85	85	85	85	85	85	85	85	85	85	85	83	80	

Total Fixture Units
(rounded up to the nearest figure in the table)

Print Name

Signature

Date