



City of Imperial Beach, California

COMMUNITY DEVELOPMENT DEPARTMENT - BUILDING DIVISION

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SINGLE-FAMILY PLUMBING WORKSHEET

This form is to be used in combination with a Plumbing or Building Permit Application when new or additional plumbing fixtures are to be installed in a new or existing single-family residence and/or accessory dwelling unit (ADU).

Project Address: _____ Permit No: _____

Distance from meter to most remote outlet (in feet): _____

Difference in elevation between meter and lowest fixture (in feet): _____

Difference in elevation between meter and highest fixture (in feet): _____

Pressure in street main (in PSI, measured with a pressure gauge or check with water district): _____

Proposed or existing water meter size (measure or check with water district): _____

The total number and type of plumbing fixtures located within the single-family residence and/or ADU must be entered into the table below. The resulting total fixture unit count is needed to determine what size water meter is required to serve the domestic water needs.

| 2019 California Plumbing Code (CPC) Table 610.3 – Water Supply Fixture Units (WSFU) | | | | |
|---|-----|----------------|-----------------------------|---------------|
| Plumbing Fixtures | ADU | Main Residence | Fixture Count x Multiplier | Fixture Units |
| Bar Sink | | | x 1.0 = | |
| Bathtub or combo bath/shower | | | x 4.0 = | |
| Clothes Washer | | | x 4.0 = | |
| Dishwasher | | | x 1.5 = | |
| Hose Bibb, first | | | x 2.5 = | |
| Hose Bibb, addt'l | | | x 1.0 = | |
| Kitchen Sink | | | x 1.5 = | |
| Laundry Sink | | | x 1.5 = | |
| Lavatory (Bathroom Sink) | | | x 1.0 = | |
| Shower, stand alone (per head) | | | x 2.0 = | |
| Water Closet (Toilet) | | | x 2.5 = | |
| Lawn Sprinklers (Each Head) | | | x 1.0 = | |
| Other: | | | x = | |
| | | | Total Fixture Units: | |

Should the total number of fixture units along with the existing / proposed meter size, existing pressure and distance from the meter exceed the amounts specified in the CPC Table 610.4 – Fixture Unit Table for Determining Water Pipe and Meter Sizes (Page 2), you will need to contact Matthew Schuler at California American Water District; 619-446-5713 or Matthew.Schuler@amwater.com, as a larger water meter may need to be installed.

CPC Table 610.4 – Fixture Unit Table for Determining Water Pipe and Meter Sizes

| Meter & Street Service (Inches) | Building Supply & Branches (Inches) | Maximum Allowable Length (feet) | | | | | | | |
|---------------------------------|-------------------------------------|---------------------------------|----|----|-----|-----|-----|-----|-----|
| | | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 |

Pressure Range – 30 to 45 PSI

| | | | | | | | | | |
|---|-----|----|----|----|----|----|----|----|----|
| ¾ | ½ | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 1 |
| ¾ | ¾ | 16 | 16 | 14 | 12 | 9 | 6 | 5 | 5 |
| ¾ | 1 | 29 | 25 | 23 | 21 | 17 | 15 | 13 | 12 |
| ¾ | 1 ¼ | 36 | 33 | 31 | 28 | 24 | 23 | 21 | 19 |
| 1 | 1 | 36 | 31 | 27 | 25 | 20 | 17 | 15 | 13 |
| 1 | 1 ¼ | 54 | 47 | 42 | 38 | 32 | 28 | 25 | 23 |
| 1 | 1 ½ | 85 | 84 | 79 | 65 | 56 | 48 | 43 | 38 |
| 1 | 2 | 85 | 85 | 85 | 85 | 85 | 85 | 82 | 80 |

Pressure Range – 46 to 60 PSI

| | | | | | | | | | |
|---|-----|----|----|----|----|----|----|----|----|
| ¾ | ½ | 7 | 7 | 6 | 5 | 4 | 3 | 2 | 2 |
| ¾ | ¾ | 20 | 20 | 19 | 17 | 14 | 11 | 9 | 8 |
| ¾ | 1 | 39 | 39 | 36 | 33 | 28 | 23 | 21 | 19 |
| ¾ | 1 ¼ | 39 | 39 | 39 | 39 | 39 | 39 | 34 | 32 |
| 1 | 1 | 39 | 39 | 39 | 36 | 30 | 25 | 23 | 20 |
| 1 | 1 ¼ | 78 | 78 | 76 | 67 | 52 | 44 | 39 | 36 |
| 1 | 1 ½ | 85 | 85 | 85 | 85 | 85 | 85 | 50 | 67 |
| 1 | 2 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |

Pressure Range – Over 60 PSI

| | | | | | | | | | |
|---|-----|----|----|----|----|----|----|----|----|
| ¾ | ½ | 7 | 7 | 7 | 6 | 5 | 4 | 3 | 3 |
| ¾ | ¾ | 20 | 20 | 20 | 20 | 17 | 13 | 11 | 10 |
| ¾ | 1 | 39 | 39 | 39 | 39 | 35 | 30 | 27 | 24 |
| ¾ | 1 ¼ | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 1 | 1 | 39 | 39 | 39 | 39 | 38 | 32 | 29 | 26 |
| 1 | 1 ¼ | 78 | 78 | 78 | 78 | 74 | 62 | 53 | 47 |
| 1 | 1 ½ | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| 1 | 2 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |

The water pressure in Imperial Beach generally exceeds 60 PSI. The rows highlighted in the table above are the most common scenarios for residential properties throughout the City. Based on these rows, an existing or proposed ¾" water meter with a 1" or 1 ¼" building supply that is less than 100 feet can have a maximum of 39 WSFU's.

Should your existing water meter, water supply, pressure and number of WSFU's not fall within the maximums provided by these tables, or if you are unsure of the information required to complete this form, please contact California American Water or the City of Imperial Beach Building Division for assistance.