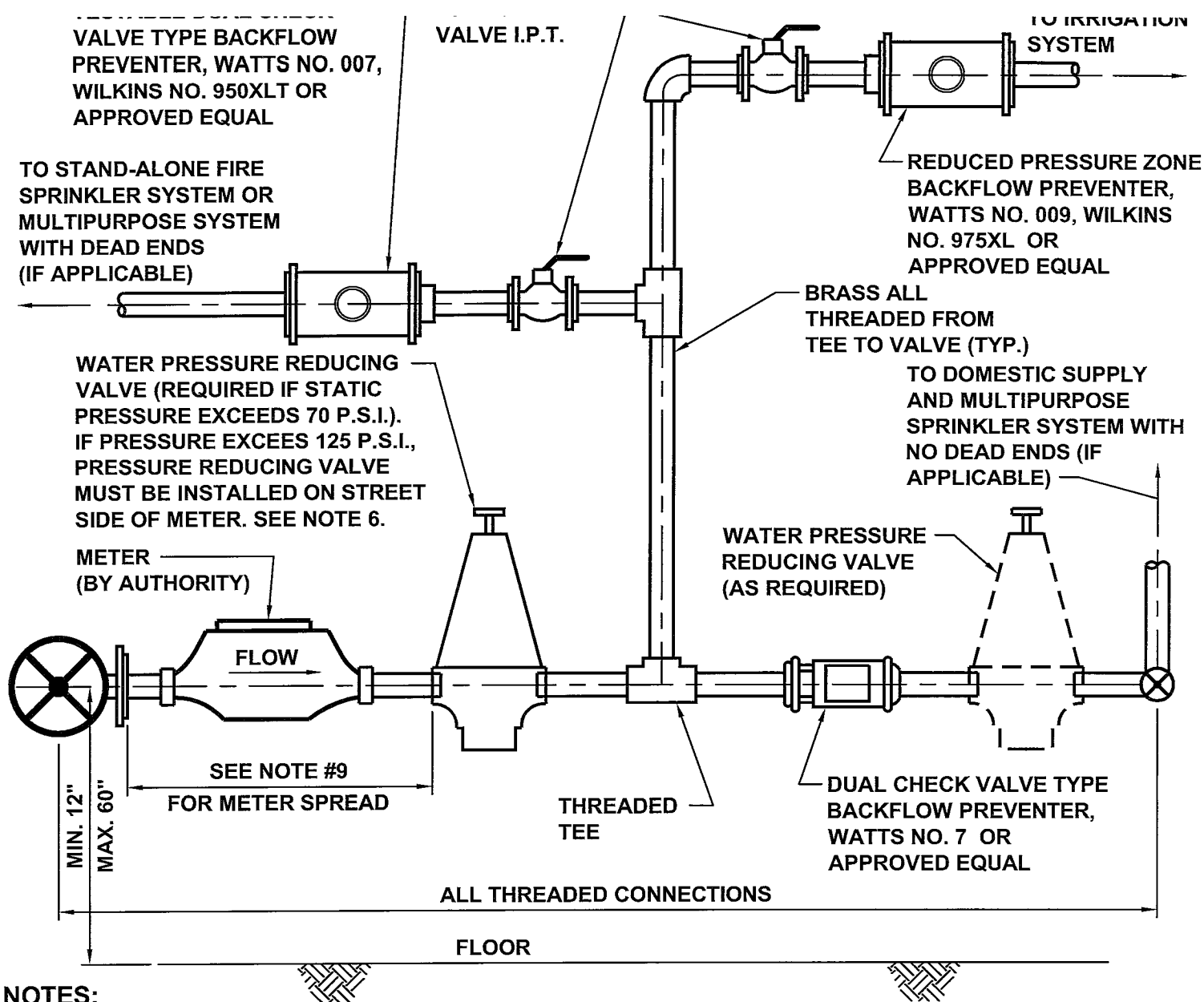


**SERVICE LINE CONNECTION**  
**GENERAL ARRANGEMENT**  
 NOT TO SCALE

**NOTES:**

1. SERVICE LINE CONNECTION FROM WATERLINE TO CURB BOX SHALL BE INSTALLED BY THE AUTHORITY.
2. WATER SERVICE LINE EXTENSION FROM CURB BOX TO METER SHALL BE INSTALLED BY SKILLED WORKMEN AT COST OF CUSTOMER IN ACCORDANCE WITH RULES AND REGULATIONS AND STANDARD SPECIFICATIONS OF THE AUTHORITY.

<b>RICHLAND TOWNSHIP MUNICIPAL AUTHORITY OF ALLEGHENY COUNTY</b>		<b>WATER SERVICE LINE EXTENSION</b>
<b>Not to scale</b>	<b>January 2011</b>	<b>Standard Detail SD-19</b>



# **NOTES:**

1. METER SETTING NOT TO BE OBSTRUCTED IN ANY WAY.
2. METER SETTING MUST BE COMPLETED BEFORE METER WILL BE SET.
3. BACKFLOW PREVENTION DEVICE MUST BE AUTHORITY APPROVED.
4. BACKFLOW PREVENTION DEVICE INSTALLED AND MAINTAINED BY OWNER.
5. PROVIDE PROPER DRAIN AT METER SETTING
6. PRESSURE REDUCING VALVE SHALL BE WATTS SERIES 25AUB, OR APPROVED EQUAL.
7. ADDITIONAL PRESSURE REDUCING VALVE MAY BE REQUIRED DOWNSTREAM OF SPRINKLER FEED FOR PROTECTION OF DOMESTIC FIXTURES.
8. BACKFLOW DEVICE ON SPRINKLER LINE REQUIRES TESTING ACCORDING TO ALLEGHENY COUNTY REQUIREMENTS.
9. METER SPREAD REQUIREMENTS:

METER SIZE	METER SPREAD
5/8" x 3/4"	11 3/4"
3/4" x 3/4"	14"
1"	16"

<b>RICHLAND TOWNSHIP MUNICIPAL AUTHORITY OF ALLEGHENY COUNTY</b>		<b>RESIDENTIAL SYSTEM W/ FIRE SUPPRESSION AND IRRIGATION SYSTEMS</b>
Not to scale	January 2011	Standard Detail SD-20

## CONDENSED INSTALLATION STANDARDS

1. **GENERAL** - Service line extension includes connection of service line to curb stop, service line from curb stop to point within structure housing meter, full open valve same size as service line, pressure regulator (where static pressure is more than 70 psi), a dual check valve, or if required by Authority, a reduced pressure zone backflow preventer, double check backflow preventer and a full open valve. The meter, meter spuds, remote readout system and interconnection wires shall be furnished and installed by the Authority.

**NOTE:** When static pressure exceeds 125 psi, the pressure-reducing valve **MUST** be installed on the street side of the meter.

2. **SIZE** - Minimum size service is 3/4 inch diameter.

3. **MATERIALS** - Lines to be Type K soft copper tubing per Fed. Spec. WW-T-799, with mechanical coupling joints or double cement lined class 52 ductile iron pipe per ASA No. H21-6, and with push on or mechanical joints per ASA 21.11.

4. **INSTALLATION** - Lay in straight line at right angles to street, with a minimum of 42 inches cover. Bottom of trench shall be excavated to conform to curvature of pipe and afford uniform bearing service. Do not lay on rock, but excavate a minimum of 6" below the bottom of the pipe and backfill with select earth or clay, well tamped; provide polyethylene wrap if corrosive soil is encountered; do not install joint within 5 feet of structure wall. Where 3/4" and 1" service lines are less than 100 feet, no couplings will be permitted.

5. **METER PITS** - Required on all service line extensions 200 feet in length or greater. Must be purchased from Authority. See SD-15 for typical installation.

6. **WATER PRESSURE REDUCING VALVE** - Supplied and maintained by owner. Suitable for a maximum line pressure of 300 psi with a delivery pressure of 40-55 psi. If pressure exceeds 125 psi, valve must be installed on street side of meter. Contact Authority office for water pressure in your area.

7. **INSPECTION** - Line to remain uncovered until after inspection and observation of hydrostatic testing by Authority; no loss due to leakage is permitted. Notify the Authority (24 hours in advance) of name, location, and time when work will be ready for inspection. Allegheny County Plumbing Division must be contacted when public water is connected to your system.

8. **BACKFLOW PREVENTER** - Required on all service lines to prevent the backflow of water into the public water system. See SD-14, 18, and/or 20 for typical installation and type of backflow device that is required. All commercial backflow prevention devices, and residential reduced pressure zone (RPZ) devices, shall be tested annually at the customers expense by a certified backflow inspector. All other residential testable backflow prevention devices shall be tested once every two years or on a schedule in accordance with Allegheny County requirements. As a condition of service or continued service, the customer must send to the Authority the written test result and/or repair information on forms supplied by the Authority. Satisfactory test results of the device must be submitted to the Authority according to the schedule indicated in this paragraph.

<b>RICHLAND TOWNSHIP MUNICIPAL AUTHORITY OF ALLEGHENY COUNTY</b>		<b>CONDENSED INSTALLATION STANDARDS</b>
<b>Not to scale</b>	<b>February 2011</b>	<b>Standard Detail SD-21</b>