



Underground Fire Piping Testing

Standard

NFPA 13 – 1999 & 24 - 1995
R.C.W. 18-160
W.A.C. 212-80

Practice

All Dedicated Underground Fire Piping:

- Shall have inspection and testing witnessed by the Fire Chief or designee
- Installation shall be performed by a state licensed Level U Fire Sprinkler Contractor. See the WSP Web site for a current listing of certified contractors
- Shall be exposed and checked for adequate thrust blocks. See City of Richland Thrust Blocking Details sheet
- If used with an underground backflow assembly vault, shall be checked against the City of Richland detail drawing
- Shall be buried a minimum of 48 inches from top of pipe to finished grade.
- Shall be hydrostatically tested at 200 P.S.I. for two hours *Note: if the static pressure of the piping is above 150 P.S.I., the piping shall be hydrostatically tested 50 P.S.I. above the maximum static pressure.*
- Shall be tested from the point of service (usually a street valve) to the riser
- Shall be flushed at a velocity of 10 feet per second using the following guidelines:
 - 2" to 4" one 2 ½" flush line
 - 6" two 2 ½" flush lines

- 8" three 2 1/2" flush lines
- 10" and above shall be at the discretion of the Fire Chief or designee
- Shall not be connected to an above ground piping system until inspection, hydrostatic testing, flushing and an "Underground Certificate" are completed and approved

Guide

Inspection, hydrostatic testing, and flushing of the underground fire piping may occur at different times as scheduled by the contractor.