

Village of Wheeling - Water Main Notes

- 1) All water mains shall be pressure tested per requirements of the Village of Wheeling. Leakage test method shall be used to pressure test the watermain. The pressure shall be 150 psi and 200 psi held for 2 hours for domestic water and fire suppression line, respectively.
- 2) All water mains shall be chlorinated per the following requirements. Initial chlorine concentration shall be 50 mg/l during disinfection and shall be maintained at a minimum of 25 mg/l free chlorine. The chlorinated water shall be retained in the main for a period of at least 24 hours. At the end of the 24 hour period, the treated water shall contain no less than 10 mg/l free chlorine throughout the main.
- 3) All water mains to be ductile iron pipe, C900 or C909 PVC. Ductile iron pipe per ANSI A21.51 (AWWA C151), Class 52, with “push on” or mechanical joint as required by the Village of Wheeling. Pipe to be cement lined per ANSI A21.4 (AWWA C104). PVC SDR 18 AWWA C900 Restrained Joint Pipe conforming to AWWA C900-07.
- 4) All new watermain shall be looped. Dead end watermain(s) is not permitted, unless otherwise approved by the Village Engineer.
- 5) The minimum cover for watermain and services shall be 5.5 feet from finished grade to top of main (6 ft. max. unless approved otherwise by the Village of Wheeling.)
- 6) Thrust blocks made of Portland Cement Concrete (PCC) of at least 12 inches thick must be used to prevent movement at bends and fittings. All bends of 22 ½ degrees or greater, tees and plugs shall be thrust blocked.
- 7) All water services shall be installed per the Village Standard.
- 8) Water service and fire suppression systems shall be made and installed by a licensed plumber, in accordance with the Illinois State Plumbing Code. Fire suppression and water service shall be one line splitting inside the building.
- 9) Fire sprinkler and water lines must be pressure tested and chlorinated from the point of connection at the existing watermain to the valve inside the building. Contact Village of Wheeling Public Works Utility Division at (847) 279-6900, at least 48 hours prior to tap and inspections.
- 10) Village of Wheeling Plumbing and Engineering (847) 459-2620 shall be contacted at least 48 hours prior to all water service work.
- 11) All valves shall be installed in a minimum, 60 inch diameter precast concrete water-tight vaults.
- 12) All fire hydrants shall be a red 6 foot bury Mueller A-423 Super Centurion or approved equal conforming with AWWA C-502 standards.
- 13) All B-boxes shall be 1-1/2” Mueller or Ford telescopic B-box with “WATER” imprinted on the lid of the box and a brass pentagon plug.
- 14) All fastener hard ware (i.e., nuts, bolts and washers) associated with fittings shall be stainless steel.
- 15) All fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.