

SPECIFICATIONS FOR WATER MAINS AND SERVICES

Water Mains:

- Class 52 ductile iron, cement lined Tyton Joint.
- 8" or larger.
- 6" hydrant branch.
- 5' cover over main.
- 1' compacted sand bedding around pipe.
- All trenches shall be backfilled and compacted per Town of Cromwell Road Specifications.

Valves / Tapping sleeves:

- Valves shall be mechanical joint, resilient seat, open left.
- Valve boxes shall be two piece slide type with cover.
- Tapping sleeves shall be:
 1. Smith Blair Stainless Steel Model 665 or equivalent all stainless steel with standard 125 lb. stainless steel nuts and stainless steel bolts on both the clamp and the flange.
 2. Smith Blair carbon steel epoxy coated model 662 tapping sleeve or equivalent with standard 125 lb. epoxy coated flange with stainless steel nuts and stainless steel bolts on both the clamp and the flange.

Hydrants:

- Mueller Super Centurion 200.
- 5 ½' bury, 5 ¼' main valve opening.
- Open left.
- 6" mechanical joint inlet connection.
- 1 - 5" pumper connection.
- 2 - 2 ½" hose connections.
- 1 yard ¾" stone around drain opening.
- Hydrants should be RED epoxy coated. Bonnet is to be painted white.

Fittings:

- Compact ductile iron.
- Mechanical joint.
- Megalugs.
- FIELD LOK Gaskets must be used instead of Coveralls
- 3 pipe lengths either side of MJ fittings.

Services:

- Tubing must be 1" type K copper.
- Corporations must be 1" with "cc" thread by compression.
- Curb Stops must be 1" compression by compression.
- Curb Boxes shall be one piece telescoping with 3/6" rod.
- 1" compacted sand bedding
- Trenches shall be backfilled and compacted per Town of Cromwell Road Specifications.

Abandonment:

If water service is to be abandoned, the water service is to be brought back to the corporation cock at the main. The gate valve, tee or tapping sleeve and gate valve shall be removed from the main and replaced with ductile iron pipe and solid sleeves or A.O.B.E.

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Information for Water Service Installations and Specifications

Sizes: 1 " and up. New service connections are to be a minimum size of 1 " K Copper.

Materials: K Copper is the pipe material that is accepted. 200 PSI Polyethylene Pipe (K Copper Tube Size) is accepted only if the service length is in excess of 100' with the approval of the Fire District Director of Water Operations. In this case the last 20' going into the structure must be 1 " K Copper. Stainless Steel Inserts must be used at the connections that are TE Pipe.

Water Service Adjustments: In the event a water service is damaged or is in need of offsetting or adjusting while installing, repairing or replacing another underground utility the service is required to be replaced in its entirety from Main to curb stop. Depending on age and condition this will also include the curb box if needed. Replacement of the curb box will be determined by the Cromwell Fire District.

Tracing Wire: If TE Pipe is used Tracing Wire is to be installed. The wire is to be attached to the Copper pipe on both ends. It also must run up to the top of the curb box for tracing purposes. A curb box top (or cap) that accommodates the tracing wire is to be supplied by the installer. Metallic tracing tape alone is not accepted. The tracing wire is to be taped or tie wrapped to the plastic service pipe (TE Pipe). Tracing wire does not replace marking tape.

Coverage/Backfill: A minimum of 1 foot of sand is to be placed over top of service pipe, both TE Pipe and K Copper. Before backfilling with fill, marking tape is to be installed 1 foot above the service pipe.

Curb Boxes: Curb boxes are to be Erie Style Telescoping boxes. Driveway caps are to be installed in driveways and sidewalks.

Marking Tape: Marking tape is required and should be installed on top of the bed of sand 1 foot above the service pipe.

Inspections: *All water service installations must be inspected by the Cromwell Fire District Water Division. An inspection must be paid for, In Advance, prior to starting any installation of water services. The inspection fee is \$50.00. Once inspection is paid for a minimum of 24 hour notice is required for an inspection to be completed.*

Information for Water Service Installations and Specifications

Cellar Valve and Fittings/Specifications: A flared adapter is required on service pipe where service enters the structure. No other adapters are accepted. No soldier joints are allowed upstream of water meter. A ball valve is required before and after the water meter.

Meter Spacing: Meter spacers are not supplied by the Cromwell Fire District Water Division. Any questions regarding spacing please contact the Water Division Office.

Meter Spacing:

5/8 x 3/4 (Disc) = 11 1/2 " - Female 3/4 IPT

1 " (Disc) = 15 " - Female 1 " IPT

1 1/2 " (Disc) = 13 1/4 " - We supply flanges to be installed by customer

2 " (Turbo) = 10 1/4 " - We supply flanges to be installed by customer

2 " (Disc) = 17 1/4 " - We supply flanges to be installed by customer

Any size above 2 ", contact the Water Division Office for specifications

Existing Wells: If you are connecting to the Cromwell Fire District Water Division's water source and you have an existing well on the premises:

If you choose to have both sources of water, they must be completely separate with no interconnections. A backflow preventer must be installed on the city water connection directly downstream of the water meter. The backflow preventer needs to be an (RP) Style backflow preventer and inspected by the Fire District Water Division at the time of installation. Backflow preventers are to be tested annually by a State of Connecticut Certified Backflow Preventer tester. It is the owners of the premises responsibility to have it tested annually and to forward a copy of the test results to the Cromwell Fire District Water Division, Attn: Water Operations Manager.