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SOUTHINGTON WATER DEPARTMENT SERVICE INFORMATION AND SPECIFICATION

All taps and connections to water mains shall be made by Water Department Personnel. The Southington Water Department (SWD) requires a minimum of three days for scheduling of any taps. All vendors / contractors must sign they received the SWD Specifications.

The Southington Water Department has individual Specifications for Booster Pumps and Pressure Reducing Valves.

1) SERVICE RENEWALS:

- a) All corporations and service lines **over 50 years of age** or deemed in bad condition by the SWD must be replaced. **Old corporations must be shut off and service pipe cut at main.**
- b) All $\frac{3}{4}$ " corporations must be replaced with 1" corporations
- c) $\frac{3}{4}$ "x 1" corporations may be reused if in good condition.
- d) The condition of all corporations and services will be determined by SWD personnel.

2) NEW SERVICES:

The Southington Water Department will accept ownership after one year of any new and replaced service by outside contractors. The service shall include from the main to and including the curb valve.

- a) One service application shall be signed by the **PROPERTY OWNER or THEIR AGENT** for each new service
- b) **Services Materials and Sizes:**
 - 1) All new services shall not be less than 1" in diameter.
 - 2) All new or renewed domestic services shall be 1", 1.5" or 2".
 - 3) The Southington Water Department upon receipt of all pertinent water fixture information shall determine the size of all services.
 - 4) All new services before the curb stop and before a meter well / pit must be constructed of TYPE K copper. **See Specifications below for details**
 - 5) All new services after a curb stop or after a meter well / pit shall be TYPE K copper or P.E. 4710 (250 P.S.I.) Tubing. **See Special requirements below for details**
- c) **Service Charges:**
 - 1) Current service charges shall be paid for each new 1" service before a tap will be made.
 - 2) Services with more than one meter will also have to pay a service charge for each additional meter and a quarterly service charge for each meter.
 - 3) Service charges for services larger than 1" may be obtained at the Water Department.

d) Service Installation:

- 1) Excavation, backfill, and replacement of pavement are the responsibility of the property owner.
- 2) The owner is responsible to confirm their contractor has a valid Connecticut P-1 or P-7 license.
- 3) Any required street opening permits shall be obtained and paid for by the property owner.
- 4) Any private well abandonment requirements will be the responsibility of the property owner.
See private well abandonment.
- 5) Services shall have a minimum five (5) feet of cover.
- 6) There shall be no couplings or fittings between the corporation and the curb stop.
- 7) There shall be no couplings or fittings within six (6) feet of any building.
- 8) Flared or Compression fittings shall be used on all copper and P.E. 4710 (250 P.S.I.) tubing.
- 9) No sweat fittings shall be used from the main to the ball valve on house side of meter
- 10) All curb boxes shall be adjusted to be flush with the finished grade of adjacent ground.
- 11) All services from the corporation shall be perpendicular and in a straight line to the curb valve.
- 12) Services in cul-de-sacs must be reviewed and approved by SWD **before** they are installed.
- 13) Before any service can be tapped and or inspected, the property owner or agent shall have a parcel's property lines, proposed driveways, proposed walkways and other proposed alterations to a property surveyed and staked out by a licensed surveyor.
- 14) ALL SERVICES SHALL BE INSPECTED BY SWD **BEFORE** THEY ARE BACKFILLED. SERVICES BACKFILLED PRIOR TO INSPECTION BY THE SWD SHALL BE REQUIRED TO DIG UP AND EXPOSE THE SERVICE FOR INSPECTION.
- 15) Services that are not visually inspected for unforeseen reasons must pressure test the service before the meter is set. The test will check to see if the service can hold the distribution systems static pressure for 1 hour. **SWD must witness the test.**
- 16) Trenches must be dewatered and in compliance with OSHA trench requirements.
- 17) There must be a minimum 6" inches of clearance below and behind water mains and a minimum 6' x 3' trench for the service tap to be done.
- 18) Metallic warning tape must be placed one-foot above service pipe.
- 19) **ALL SERVICES INSTALLED THROUGH CONCRETE SLABS, BENEATH FOOTINGS, UNDER SIDEWALKS, PORCHES, DRIVEWAYS AND STRUCTURES MUST BE SLEEVED IN 3" P.V.C. PIPE (MIN.). STONE MUST BE PLACED AROUND THE SERVICE AS IT ENTERS THE SLEEVE OUTSIDE THE FOUNDATION. A LINK SEAL FITTING MUST ALSO BE INSTALLED AT THE END OF THE SLEEVE UP THROUGH THE FLOOR TO SEAL THE PIPE. SEE BELOW FOR LINKSEAL TYPE**

LS-300-S LINKSEAL T316SS BOLTS EPDM RUBBER

e) Service Location

- 1) Water services shall be at least five (5) feet in from adjacent properties or structures.
- 2) Each water service must have its own right of way. No service shall cross an intervening property via an easement.
- 3) **All services shall be greater than (10) feet horizontally away from or 18" above sewer laterals.**
- 4) All services shall be 10 feet from leaching fields, oil tanks, gas tanks and any associated lines.
- 5) All services may be laid in the same trench with the following: CATV lines and phone lines. Within the trench however a minimum separation distance of 12" inches horizontally must be maintained between the service lines.
- 6) All services shall be laid at least 5 feet away from electric lines and natural gas lines and marked **with metallic marking tape.**
- 7) All water services crossing perpendicular to another underground service line utility shall have a minimum of twelve (12) inches of vertical clearance.
- 8) **All services must be installed in a straight line from the main to the curb stop.**
- 9) Water curb stops and boxes maintained by the Southington Water Department shall be installed **within** five (5) feet of the curb within the **Town Right-of-Way**. If a sidewalk is proposed/present, the curb box must be installed 5.0' from the backside of the sidewalk **within** the **Town Right-of-Way**.

- 10) All water service pipes **SHALL NOT BE INSTALLED UNDER CONCRETE FLOORS**. They shall be terminated just inside the foundation wall not less than 6" and not greater than 12".
- 11) **WATER SERVICES MAINTAINED BY THE SOUTHTON WATER DEPARTMENT FROM THE PUBLIC MAIN TO THE CURB STOP VALVE SHALL NOT BE INSTALLED IN OR UNDER DRIVEWAYS AND PAVED PRIVATE ROADS.**
- 12) **SERVICE CURB STOP VALVES AND BOXES MAINTAINED BY THE SOUTHTON WATER DEPARTMENT SHALL NOT BE INSTALLED WITH IN FIVE (5) FEET OF ANY DRIVEWAY OR OTHER NON-REMOVABLE OBSTRUCTION.**
- 13) All service pipes laid parallel to foundations and retaining walls must be 10 feet away from such structures.

3) WATER METERS

- 1) Every residential house, duplex unit, condominium unit, or apartment must be individually metered and have a separate individual outside shut off.
- 2) If any residential, commercial or industrial owner /contractor requests a larger meter size, they will be required to pay an additional cost set forth by the SWD.
- 3) Every industrial and commercial unit must be individually metered and have separated outside curb stop valve.
- 4) All water meters are to be installed and sealed by Southington Water Department personnel.
- 5) The primary meter for a new service is included in the tapping fee. Owners requesting additional meters will be required to pay an additional charge for the meter and labor.
- 6) Services greater than 300 feet in length must install a meter pit or a meter well. Specifications are available at the office.
- 7) **METER LOCATIONS SHALL BE ACCESSIBLE AND FREE OF OBSTRUCTION AT ALL TIMES**
- 8) Meters shall not be installed under stairs, in closets, or in any area not provided with heat to prevent freezing during winter months.
- 9) For 1 ½" and larger meters, owner must supply the meter flanges
- 10) **BY-PASS PIPES AROUND A WATER METER ARE STRICTLY PROHIBITED UNLESS APPROVED BY SWD**
- 11) No sweat fittings are permitted before ball valve on house side of meter.

a) Typical 5/8 meter set up

- 1) The contractor / property owner shall install on street side of meter a 1" angle valve and leave a 15" minimum spread to the house drop (this includes the flanges, meter and second valve).
- 2) The Southington Water Department at the time of a new meter set will install a ¾" meter connection and a ¾" ball valve on house side of meter. The cost for the installation of the meter and valve is included in the tapping fee.
- 3) The meter must be set a minimum of 6" from the inside wall and a minimum 12" up from the floor.

b) Specifications of needed materials for a typical 1" service

- 1) (One) 1 Inch Flared Angle Valve:
Mueller, Ford or McDonald
Valves must have a 1" copper inlet, ¾" swivel nut outlet with handle or equal.
- 2) Couplings for copper tubing:
Shall be three or two-part, copper to copper, flared connections or Compression fittings
- 3) Curb Stops: Drains in curb stops **are not** allowed.
Mueller, Ford or McDonald
Copper to copper, flared or Compression connections or equal
- 4) Copper Tubing:
Type K soft, water tubing must be used from the main to the curb stop.

- 5) Polyethylene Tubing:
May be used for residential services from the curb stop to the house. Accepted Material is "Endo-Pure" by ENDOT Industries or equivalent. See Section 8 for specifications.
- 6) Service Boxes:
Shall be screw or slide type, 2 ½" shaft.
- 7) **Material for 1 1/5" or 2" Service with 5/8" or 3/4" Meter**
 - a) 1 1/5" or 2" x 1" M.I.P. T- Compression Straight Coupling or equivalent
McDonald, Ford or Mueller
 - b) 1" F.I.P. T x ¾" swivel nut meter outlet Ball Angle Valve with handle.
McDonald, Ford or Mueller.
- 8) Boring / Jacking Casings: Shall be 4" diameter Polyethylene Pipe.
- 9) **ALL MATERIALS SHALL BE AMERICAN MADE ONLY AND LEAD FREE.**

4) SPECIAL REQUIREMENTS FOR RESIDENTIAL FIRE PROTECTION SYSTEMS:

- a) The installation of combined fire and domestic services will not be permitted without special approval of the Southington Water Department
- b) The shut off for any fire service must be located in an accessible area in the ground outside the building.
- c) For 1" residential service with a fire system separate services are required, one for the fire service, one for domestic service. Both services must be metered.
- d) An R.P.D. backflow prevention device must be installed if anti-freeze is used to prevent freezing.
- e) If chemicals are not used, a double check valve assembly must be installed.
- f) If it is a flow through sprinkler system, an R.P.D. or double check valve assembly is not required.
- g) If a backflow device is required, all devices must be tested annually by the SWD.
- h) Only copper pipe shall be used for residential fire protection systems.

5) SPECIAL REQUIREMENTS FOR METER MANIFOLD SYSTEMS:

- a) **ALL METER MANIFOLD SYSTEMS MUST BE BOARD APPROVED.**
- b) An application must be signed for each meter to be set.
- c) A material and labor charge must be paid for each meter to be set.
- d) Each meter shall have a first and second valve in a manifold system.
- e) Southington Water Department is to set meters.
- f) Manifolds must be supported from the floor and constructed of Iron Pipe Thread brass and copper fittings.
- g) A main shut off valve must be installed before the manifold system.
- h) The meter manifold system must be made accessible to SWD Staff at all times.

6) SPECIAL REQUIREMENTS FOR ADDITIONAL METER ON EXISTING ONE INCH SERVICES:

- a) An application must be signed for the new meter.
- b) If a tenant is to receive the bill, a tenant form must be signed.
- c) **Only one additional meter will be allowed on a one-inch service.**
- d) A labor and material charge must be paid before the meter is to be set.
- e) **Installation Procedures**
 - 1) The Southington Water Department will turn the water off at the curb stop and remove the meter.
 - 2) Plumber shall remove the old 1" angle valve and install a flared 7 ½" 'U' branch tee with two angle ball valves. Mueller, Ford or MacDonald
 - 3) Plumber shall install separate house drops to each unit you want serviced and leave a 15" spread (minimum) between the drops and the angle valves.
 - 4) Have the Southington Water Department install / reset two meters and turn on the water at the curb-stop.

7) SPECIAL REQUIREMENTS FOT USE OF POLYETHYLENE P.E. 4710 (250 PSI) TUBING:

- a) Accepted Material is “Endo-Pure” by ENDOT Industries or equivalent. The SWD has to approve any equivalent material.
- b) Can be used on services after the curb stop valve or after a meter well.
- c) Use of this material may approved in commercial and industrial areas if the use of copper. will require more than two fittings. The SWD must review and approve any proposed use of this material in these areas.
- d) **Use is prohibited in commercial and industrial areas due to possible petrochemical penetration.**
- e) Installation procedures must conform with A.W.W.A. C901 Standards.
- f) Brass compression fittings must be used at joints
- g) This tubing can not be bored and pulled through stony soil.

8) ALL REQUESTS FOR EXEMPTION FROM THIS SPECIFICATION MUST BE MADE IN WRITING TO THE SUPERINTENDENT OR DESIGNEE.

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