

Groveland Water Department Installation Specification for Domestic Water Services

This is the standard practices that the Groveland Water Department requires for water service installation.

The property owner shall be solely responsible for insuring that the following procedures and requirements are fulfilled.

General Information:

No new services shall be installed After November 15th. In addition, a road opening/trench permit must be obtained from the town before any work is to be done. If work being performed inhibits the flow of traffic a police detail must arranged and paid for by the contractor. For work in a Subdivision, if the Water Department can't install the required new service taps, a subcontractor may be used with approval by the Superintendent.

The Water Department must be notified at least 48 hours in advance of any work being done. **All work must be scheduled through the office so a work order can be issued, NO EXCEPTIONS!** (The Water Department has full power to dictate when the work will be done)

No work or open trenches will be allowed on Saturday, Sunday or Holidays, and no work shall be permitted other than during normal working hours.

Approved Procedure:

A certified plan for new construction and or drawing on a rehab project showing the water service and all other utilities ,must be submitted 30 days prior of approval. The Superintendent has the discretion of a plan vs drawing submittal.

The property owner is responsible for all Excavation, water main to inside the home/building. Water Department Personnel will be on scene during excavation around water main.

The water main must be cleaned and made accessible by the contractor before water main is to be tapped by the Water Department. The contractor is responsible for providing a safe trench, dewatering and shoring must be provided as needed. The Water Department will be responsible for tapping main and running "K" Type copper from main to curb stop. All taps and service lines will be 1" unless otherwise specified by The Water Department.

The Water Department will supply the Following:

- 1" Corporation
- 1" Copper from water main to curb stop
- 1" Curb Shut Off Valve

- Curb box with stainless steel rod

The water service from curb shut off to inside the home/building will be the responsibility of the contractor.

- Service line from curb shut off to cellar valve must be 1" "K" type copper or 1" CTS Polyethylene tube (A.W.W.A approve rated for 200 psi or greater)
- If Plastic tube is used a tracer wire is required from curb to cellar and proper SS sleeve inserts must be used.
- The service line will be in **one** piece between required shut off valves.
- There will be **Absolutely No Fittings** installed between curb stop valve to inside cellar valve.
- Meter Pit can be installed if Dwelling is more than 150' off the road. Water Department approval is needed for this application.
- All Service lines must at a minimum of **5'** in Depth
- Where rock and or ledge is encountered the line must be bedded in at least 6" of sand and then backfilled with fill that does not contain boulders or unsuitable material
- The Trench must be mechanically compacted in 1' to 2' lifts
- Service lines must be at least 10' away from all sewer lines and connection unless otherwise getting approval from the Water Superintendent
- Service lines should be run perpendicular to the water main and enter the building as a straight line. The Superintendent has authority to make adjustments as needed.
- **No backfilling is permitted until the water line has been fully inspected and pressure tested by the Water Department**
- The inside Cellar Valve will be either **compression or flared only (No Solder joint are permitted before the water meter)** and can be installed by the Water Department at the owner's expense.
- The line must be no less than 12" through the wall or floor
- The Water Meter has a lay length of 8" and is installed by the Water Department
- Siding must be on the home for us to mount our radio. A meter will not be installed until this is done
- **A non-testable dual check valve is REQUIRED** to be installed after the water meter (See Attached Drawing)
- **All of the above must be done before water is turned on**
- In cold weather months the water will not be turned on until there is heat inside the building

ADDENDUM II

1. RESIDENTIAL DUAL CHECK

Effective the date of the acceptance of the Cross Connection Control Program for the Town of Groveland, Massachusetts, all new residential building will be required to install a residential dual dual check immediately downstream of the water meter. Installation of this residential dual check device on a retrofit basis on existing service lines will be instituted at a time and at a potential cost to the homeowner as deemed necessary by the Commission.

The Owner must be aware that installation of a residential dual check valve results in a potential closed plumbing system within his residence. As such, provisions may have to be made by the owner to provide for thermal expansion within his closed loop system, i.e., the installation of thermal expansion devices and/or pressure relief valves.

2. STRAINERS

The Commission strongly recommends that all new and retrofit installations of reduced pressure backflow preventers and double check valve assemblies include the installation of strainers located immediately upstream of the backflow device. The installation of strainers will preclude the fouling of backflow devices due to both foreseen and unforeseen circumstances occurring to the water supply system such as water main repairs, water main breaks, fires, periodic cleaning and flushing of mains, etc. These occurrences may "stir up" debris within the water main that will cause fouling of backflow devices installed without the benefit of strainers.



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New Water Service Installation

Recommended Backflow Device



Description

Series 7 Dual Check Valves prevent the reverse flow of polluted water from entering into the drinking water supply at the service entrance or at individual outlets. It consists of a bronze body construction, with two plastic replaceable check valves, and stainless steel springs. Series 7 is designed for non-health hazard residential water system containment, continuous pressure applications. It is installed immediately downstream of the residential water meter, in a vertical or horizontal position. Check with local inspection authorities for installation requirements. Minimum Working Pressure: 10psi (69 kPa) Maximum Working Pressure: 150psi (10 bar).

The Groveland Water & Sewer Department requires all new and altered existing water services to have a containment device installed after the meter. The department strongly recommends the installation of a thermal expansion tank, this will control any water hammer with in the home. Please refer to the diagram below for a typical installation.

