10. Material Specifications

A. Materials used in the extension of water service to a building shall comply with the following specifications:

1. Pipe shall be Type "K" copper or other approved material of an equivalent pressure rating. The pipe size for Domestic Services shall be determined from the following table:

Main Line Pressure	25'	50'	100'	200'	(distance from mains)
20-24 PSI	¾"	¾"	1"	1"	(size of pipe required)
40-60 PSI	¾"	¾"	¾"	¾"	"
over 60 PSI	¾"	¾"	¾"	¾"	"

The above assumes the elevation of the building or premises is not great enough to loose the main line pressures quoted in each category.

This table is for single family units, or for residences with basement apartments , and is based on a maximum demand of eight decimal thirty-three (8.33) IMP GPM. Service pipes to multiple family units, or to commercial property owners must be sized on the basis of expected demand, pipe length, and water pressure. Approximate water pressures for any area may be ascertained by contacting the Public Works Supervisor at the Town Office.

2. Joints and fitting connections in water service pipes shall be compression type, and completely watertight.

3. Each property owner shall install inside the building or premises to be serviced, in an easily accessible place any and all fittings required by the Town. These fittings are to be compression type and shall be installed upstream of the point at which the service pipe connects to the buildings internal plumbing system. The following fittings shall be installed:

(a) A shut-off valve of a type approved by the Town shall be installed by all property owners.

(b) A pressure reducing valve of a type approved by the Town shall be installed by all property owner serviced by water mains in which the maximum pressure exceeds sixty (60) PSI.

(c) A waterline check valve shall be installed by all property owners.

The property owner shall be responsible for the proper setting and maintenance of these valves and for any damage caused by its improper setting or its failure.

(d) A water meter with recording device of a type approved by the Town shall be installed by any commercial property owner who is specifically requested to do so by the Town. The necessity for this device will be determined by the Town after a review of the expected water demand of the establishment.

(e) All new buildings or premises connecting to the Town's Sewer System shall install a septic tank of a type approved by the Town. A septic tank of a type approved by the Town shall also be installed by any property owner specifically requested to do so.

(f) A backflow prevention device of a type approved by the Town shall be installed by any property owner specifically requested to do so. The necessity for this device will be determined by the Town after a review of the internal plumbing system of the establishment with particular attention paid to cross connections in the System, and the nature and volume of fluids which may backflow into the Town's System.

10. B. Materials used in the extension of sewage service stubs to a building shall comply with the following specifications:

1. Pipe shall be of the following type, unless special approval is given by the Town in writing for another type:

   (a) Polyvinyl Chloride (PVC) plastic pipe with joints as specified hereafter, and laid with bell and upstream of spigot end. Pipe shall be CSA approved or type SDR 35 or better.

10.C. Joints in sewage service pipes shall be watertight and the following type:

1. For PVC pipe, joints shall be made using pipes with bell and spigot ends, and gaskets as recommended by the manufacturer.

10.D Service stubs will be installed by the Town using PVC SDR 35 sewer pipe or better. In no case will makeshift connections such as loose fit or concrete-poured connections or the like be permitted.

10.E Fittings on sewer lines shall be of a type approved by the Town, and designed specifically for connection to the particular type of pipe used. All fittings shall be specified as follows:

1. Bends or elbows in the pipes will be permitted only in special cases, as outlined under Section 5 of these regulations.

2. Cleanouts are required on each separate service connection. Section 5 of these regulations sets forth the materials and configuration of each cleanout, which are to be located as follows:

   a. In an easily accessible place inside the building, giving straight line access to the sections of sewer pipe buried outside the building.

   b. At any and all horizontal bends in the service pipe.

   c. Such that no section of pipe, including the service stub is more than 200 feet downstream of a cleanout.

3. A check valve/backflow prevention device approved for the use on sewage lines shall be installed in an easily accessible place approved by the Town on every sewage service pipe as per Sections 10A.3 (d.) and 10A.3 (e) of these regulations.

11. Installation Specifications

A. In planning for the installation of water and sewage service pipes the following requirements for location and alignment of the pipes shall be followed:

1. Services shall only be installed subject to the following conditions:

   a. No two premises supplied with water and/or sewer service shall be dependent on one service stub, provided always that a basement apartment may use the same service stub as the main residence unit only if the internal plumbing system of the building is one integrated system, and not separate systems for each dwelling unit.

   b. No more than one service stub will be provided to each property owner for one premises.

   c. No service pipes will be permitted to run along any private road giving access to more than one dwelling unit or commercial establishment, nor across the private property of anyone other than the property owner receiving the service, unless an easement is obtained, the cost of the easement being the responsibility of the property owner to whom the service is being provided.

   d. Location, alignment and configuration of service connections, shall in all cases comply with these regulations.

11. B. The vertical alignment of the service pipes must be carefully controlled to conform to the following requirements:

1. The minimum depth of earth cover over the top of all pipes must be six (6) feet, in order to provide protection against freezing. In places where ground conditions make it impossible to obtain this depth of cover, special approval must be obtained from the Town. In such

instances, the Town may require that insulation, heat tracing, or some other special protection be provided.

2. Sewage service lines must be laid at a uniform and constant slope, with no vertical bends or deflections from the service stub to the inside of the buildings foundation wall. In all cases there shall be no bends between the septic tank and the foundation wall. A downward slope, in the direction of flow of at least one-quarter (1/4) of an inch to the foot will be permitted where necessary if the slope is uniform, workmanship is satisfactory, and if there are not horizontal bends or deflections in the line.

11.C. The horizontal alignment of the service pipes must conform to the following requirements:

1. If possible, no horizontal bends or deflections shall be installed on a sewer line anywhere between the service stub and the inside foundation wall of the building. In all cases, there shall be no bends between the septic tank and the foundation wall.

3. Horizontal bends will be permitted only if all of the following conditions are met:

   a. The property owner has received permission from the Town to have bends installed.

   b. The building or premises to be serviced was built prior to the installation of water and sewer. Buildings constructed after that time should be designed and located such that a straight line sewer run to the mains is possible.