

# Utility Installation Requirements



## Building Inspections

*The Minnesota State Building Code and Richfield City Code provide minimum standards for creating an environment of health and safety for all Richfield residents.*

### Water Service Installation Requirements

*Construction Specification: Building water service construction shall meet the following requirements:*

1. Every service pipe shall be laid with sufficient access to allow not less than one foot of extra length and in such a manner as to prevent rupture by settlement.
2. The service pipe shall be placed not less than seven feet below finished grade and be so arranged as to prevent rupture by freezing.
3. Water services less than 3 inches in inside diameter shall conform to the requirements of ASTM B 88 for seamless copper water tube type "K". No plastic water pipe allowed.
4. Water services shall comply with *MN State Plumbing Code 4715.1710*.
5. No mechanical couplings are allowed under a structure or within 3 feet of a foundation or footing. Only silver solder connections are permitted under structures.
6. Soil in sewer and water trenches, especially in driveway or sidewalk areas, must be compacted. Compaction tests of these areas are required.
7. Installation contractor must set curb box standpipe to final grade and show that curb stop can be turned to the on and off position.
8. Any water service under a driveway and does not have 7.5 feet of cover shall be insulated.
9. A visual inspection is required along the entire length of the water line tested at main pressure with the curb box in open position.

### Sewer Service Installation Requirements

*Building sewer service construction shall meet the following requirements:*

1. All building sewers shall be a minimum of four inches (4") and constructed of any material allowed by the current State Plumbing Code. All plastic sewer pipe must be laid on a continuous granular bed according to the manufacturer's specification.
2. Any sewer line in excess of 100 feet shall require one cleanout. When a sewer service line exceeds 100 feet, a cleanout shall be required every 80 feet thereafter. A cleanout will be required when two 90-degree bends are used to make a turn in the direction of the sewer line.
3. Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. No building sewer shall be laid parallel to or within three feet (3') of any bearing wall which might thereby be weakened. The depth shall be sufficient to afford protection from frost. The building sewer shall be laid at a uniform grade with a drop of at least 1/8 inch per foot of line in the direction of the mainline sewer, and in a straight alignment. The property owner shall be responsible for verifying the location and elevation of the building sewer service stub prior to establishment of the basement elevation or beginning the connection to the house.
4. On replacement work, all substandard sewer pipe, "orangeburg", etc. must be replaced.

## **Inspections**

1. The installation contractor shall notify the City when the building water and sewer service connection is ready for inspection. A minimum of 4 hours notice for inspection is required.
2. No backfill shall be placed until the work has been inspected and approved.

## **Sewer and Water Services**

### **For Sewer and Water Work in the Street Right of Way**

1. A "Permit to Work in R.O.W." is required from the Engineering Department.
2. All inspection of sewer work will be done by the Utility Department.
3. All inspection of water work will be done by the Utility Department.

### **For Sewer and Water Work on Private Property**

1. Permits are required for all outside piping work. This is in addition to building permits and plumbing permits. Permits can be obtained from the Building Inspection Department.
2. Inspections will be done by the Utility Department.
3. Inspections can be scheduled by calling (612) 861-9165.