



## MORRISTOWN UTILITY SYSTEMS

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### **Reduced Pressure Backflow Prevention Devices Installation Guide For Lawn Irrigation Systems**

The following requirements shall be followed, in its entirety, for installing and maintaining backflow devices on Morristown Utility Systems.

1. The RPBP must be installed in an adequate space for testing as to eliminate the possibility of confined space entry and ensure safety of personnel and the device.
2. The RPBP must be no higher than 5 feet from the floor, at no time will they be approved for installation of more than 5 feet.
3. Testcocks must be exposed on the front side or top of the backflow device, with a minimum of 6 inches clearance for testing. Fittings for testing the device must be installed on the device at the time of installation.
4. There shall be a minimum of 12 inches clearance from the bottom of the relief port to the floor or finished grade.
5. A funnel air gap must be installed on the relief valve opening with a drain installed to a safe place for discharge. (Care should be taken when installing the RPBP near anything that could be harmed with water discharging from the relief port.)
6. Under no circumstances will a by-pass be permitted.
7. The RPBP shall be equipped with resilient wedge seat valves for the No. 1 and No. 2 shutoff if the device is 2 ½" to 10".
8. All backflow prevention devices shall be installed with wye strainers, which shall be installed aiming down.
9. Devices are to be installed in a horizontal orientation only unless otherwise approved by the State of Tennessee and Morristown Utility Systems.
10. Only one (1) - Reduced Pressure Backflow Preventer will be required on services set up exclusively for lawn sprinkler systems.
11. Provisions must be made to protect the device from vandalism and freezing. Insulation or other covering must not restrict or cover up the relief valve opening, test cocks, cut off valves or name plates on the device. Devices in an insulated enclosure must have adequate access, acceptable inside clearance, and adequate drainage. It is highly recommended that the assembly be removed and the system drained for the Winter months.
12. The service line must have no outlet, tee, tap or connection of any sort to or from the supply line between the meter and the protective assembly.
13. All devices used for backflow prevention must be approved by the State of Tennessee along with Morristown Utility Systems. This list is available through the Morristown Water Systems Operation Office.