SANITARY SEWER QUALITY ASSURANCE

Air Test for Leakage
1) The air test for leakage shall be used on all gravity sewer pipes unless otherwise noted.
2) The pressure used shall be 5 psi greater than the back pressure of the ground water above the pipe.
3) The section being tested shall be pressurized and allowed to equalize. The time duration of the test will be 5 minutes after equalization.
4) The test section shall pass if the pressure loss is 1 psi or less.

Manhole Vacuum Testing
1) A vacuum test will be performed on all newly installed manholes, or existing manholes that the contractor penetrated for tie in.
2) The test shall be conducted after all manhole components have been assembled, and pipe penetrations have been made.
3) A vacuum of 10 inches of Hg shall be drawn and the vacuum pump turned off. The time duration of the test will be 1 minute.
4) The test manhole shall pass if the vacuum loss is 1 inch of Hg or less.

In Place Deflection Test
1) The in place deflection test shall be performed on all gravity sewer pipes unless otherwise noted.
2) The test shall be conducted after the final backfill has been in place for a minimum of 30 days.
3) The test shall be conducted using an approved mandrel having a diameter equal to 95% of the I.D. of the pipe being tested.
4) A proving ring with factory identification clearly visible shall be provided for each mandrel used.
5) The mandrel shall be manually pulled thru each pipe section being tested, without the use of any mechanical devices.
6) The section being tested shall pass if the mandrel can be pulled continuously thru the pipe.