

## LATERAL SPECIFICATION

1. Prior to construction the Owner and/or Contractor must complete a Permit Application and pay all required fees.
2. All laterals and/or repairs to laterals shall be inspected and tested before being backfilled.
3. Any work performed in Township streets shall require a Street Opening Permit.
4. The contractor shall comply with all OSHA safety regulations.
5. The contractor shall comply with the requirements of the PA Vehicle Code, Title 67 with respect to traffic control (PennDOT Publication 213) and any other requirements of the Police.
6. The specifications provided below are general in nature. For additional information refer to Section 02720 Service Lateral and Building Sewer Installation of the North Londonderry Municipal Authority Sanitary Sewer Specifications.

### Bedding and Backfill Material

1. Bedding:  
Grade: 1B (AASHTO # 8), 2B (AASHTO # 57)
2. Backfill in Paved Areas  
Grade: 2A (PennDOT Classification)
3. Minimum of six (6) inch all around pipe
4. Location tape shall be placed on top of the bedding material.
5. Rock in excess of three (3) inches in diameter shall not be used as backfill.

### Paving

1. Temporary paving will be installed in accordance with the Street Opening Permit.

Cold Patch or 25mm WMA – two (2) inches compacted

2. Permanent Paving will be installed accordance with the requirements of the Street Opening Permit.

Stone Base – eight (8) inches compacted stone base, 3A modified

Base Course – five (5) inches 25mm WMA in two lifts

Wearing Course – one and a half (1 ½) inches 9.5mm WMA

### Pipe Material (4" or 6")

1. 6" pipe required for the service lateral (see details for limits).
2. 4" or 6" pipe for building sewer (see details for limits).
3. SDR 35 PVC (Push-on joints).
4. Schedule 40 PVC with Solvent Weld Joints: Only to be used when repairing existing schedule 40 pipe.
5. Cast Iron or Ductile Iron Pipe with push-on joints.

### WYE Connections

1. All connections to existing sanitary sewer mains will be made by installing a WYE connection (see details). Prior approval from the Authority and/or Township will be required for the use of saddles.
2. In the event a saddle is used the existing pipe shall be properly tapped with a coring machine. The saddle will be "Sealtite" by General Engineering Company, Frederick MD.

### House Trap – Only permitted to replace existing trap

1. House traps shall be manufactured by The Harrington Corp.

### Minimum Cover

1. Minimum of three (3) feet.
2. Any pipe with less than three (3) feet shall be Ductile Iron pipe.

### Detection Tape

1. Place detection tape in the trench on top of the stone prior to backfilling.

### Cleanouts and Sweeping Tees

1. Cleanouts are required, spacing of cleanouts will not be greater than ninety (90) feet and one within three (3) feet of the house foundation wall. Cleanouts will be placed at all bends greater than ninety (90) degrees.
2. Sweeping tees are required at the curb line (see detail). All other cleanouts will be sanitary tees.
3. Shall be the minimum of four (4) inch. Except at the curb line where six (6) inch is required.
4. Must have a threaded watertight cap.
5. All cleanouts and test tees will have cast iron covers place over them.
6. See details for location of cleanouts and test tees.

### Minimum Slopes

1. Minimum slope for four (4) inch pipe shall be 2%. (1/4" per foot)
2. Minimum slope for six (6) inch pipe shall be 1%. (1/8" per foot)

### Adapters

1. Solid sleeve couplings on all pipe connections.
2. Connections from PVC to clay shall require a Fernco with shear bands. A bag of cement shall be placed under each flexible coupling for support. See attached detail.
3. Rubber adapter bushings (donuts) are not permitted.

### Testing

1. All lateral installations shall be air tested. Air test shall be at a pressure of 5 psi for five (5) minutes. Air shall be allowed to stabilize in the line for the first two (2) minutes, if the pressure drops during this time the line shall be pressurized to the initial start pressure and the test started. If no pressure is lost in the first two (2) minutes the test shall continue. If air is added restart the test time. If no air is added continue with the test time.
2. Testing shall be done after the lateral has been backfilled.

### Lateral Disconnection

1. All disconnected laterals shall be disconnected at the right-of-way line.
2. Disconnection shall be done by cutting the existing lateral, installing a watertight plug or cap in the lateral.
3. In some cases, the disconnection may be required in the main line. This shall involve the removal of the existing wye connection and installing a new piece of PVC pipe and couplings.