

DELAWARE CONSTRUCTION SPECIFICATION

SMOOTH PLASTIC PIPE CONDUITS CS 47

1. SCOPE

The work shall consist of furnishing and placing plastic pipe conduits and the necessary fittings as shown on the drawings.

2. MATERIALS

Pipe and fittings shall conform to the requirements of Delaware Material Specification 211. The contractor shall strictly adhere to the specifications, material and grade of pipe specified on the drawings. No substitutions shall be made without the approval of the technician.

3. LAYING AND BACKFILLING THE PIPE

The pipe shall be laid to the line and grade shown on the drawings. Pipe with integral bell joints shall be laid with the bell end upgrade. Upgrade ends of all drain pipes shall be closed with suitable plugs. Each pipe section shall be laid in a manner that provides a continuous uniform support.

Perforated pipe shall be laid with the perforations down and oriented symmetrically about a vertical center line. Perforations shall be clear of any obstructions at the time the pipe is laid.

Pipe material shall be handled properly at all times in accordance with manufacturer's recommendations. Pipe and fittings shall not be thrown, dropped or dragged.

Backfill shall be placed and compacted in accordance with Delaware Construction Specification 15 – STRUCTURAL BACKFILL. The pipe shall be loaded sufficiently during backfilling around the sides to prevent its being lifted from the bedding.

4. JOINTS

Pipe joints shall be assembled in accordance with the recommendations of the pipe manufacturer.

- a. **Elastomeric Seal Joints** - All joints in nonperforated sections of pipe and all fittings shall contain elastomeric gaskets. The spigot end of the pipe shall be inserted full depth into the joint socket so that stop marks on the pipe are flush with the coupling or bell face. The gasket shall be checked for proper alignment at each joint after connection.
- b. **Solvent Cement Joints** - All joints in nonperforated sections of pipe and all fittings shall be assembled with solvent cement. Primer and solvent cement shall be applied to both the outside of the pipe and the inside of the fitting. The spigot end of the pipe shall be inserted full depth into the joint socket.

Field cuts of pipe shall be made with fine tooth saws or mechanical pipe cutters and shall be square and perpendicular to the pipe axis. Spigot ends shall be smoothly reamed and beveled with a rasp, file, or mechanical beveler to be similar to factory prepared spigots. Where insertion stop marks were provided on standard pipe lengths, they shall be reproduced on the cut lengths for the same distance.