

PART 403 – BACKFILL

403.1 GENERAL

- 403.1.1 This section governs all labor, equipment, materials, and testing required to properly backfill trenches and excavations around manholes and structures.
- 403.1.2 No granular embedment or other backfill material shall be used by the Contractor without approval by the Engineer.

403.2 MATERIALS

- 403.2.1 Trench Foundations Materials: 3" minus river-run or pit-run gravel, free from clay balls, roots, and organic matter; well crushed gravel or crushed rock graded with less than 8% by weight passing the 1/4" sieve. Submit samples for approval prior to delivery of the material to the site. Trench foundation material shall only be used where unsuitable soil conditions are encountered under sewers before the depth of standard embedment is reached. Where necessary, install a water table cradle as shown on the Standard Details.
- 403.2.2 Embedment: Embedment material shall be as shown on the Standard Details, as applicable.
- 403.2.3 Trench Backfill: Trench backfill will be divided into the general classification as follows:
 - A) Street Backfill: Street backfill material above the pipe embedment material shall be ODOT Type A aggregate base compacted to 95% Standard Proctor density per AASHTO T 99.
 - B) Trench Backfill: Backfill for trenches in unpaved areas shall meet the following requirements: Excavated material free from roots, organic matter, trash, debris, and other deleterious materials. Contractor may provide imported material of equivalent quality, subject to Engineer approval, if required to accomplish the work. Rocks larger than 3 inches shall not be allowed within 15 inches below finished grade and within 18 inches above the pipe crown.

403.3 DESCRIPTION

- 403.3.1 The Contractor shall be responsible for the furnishing of all labor, supervision, materials, equipment, and testing for the completion of backfill operations in accordance with the Contract Documents.
 - A) Unless otherwise specified, all sewer trenches and excavation around structures shall be backfilled to the original surface of the ground.
 - B) The Contractor shall be responsible for all damage or damages which might occur as a result of the settlement of trench or other backfill made by him in the fulfillment of these Contract Documents, within and during a period of one year from and after