

## SECTION 210 STRUCTURE BACKFILL

### 210.1 Description

- (1) This section describes furnishing backfill materials and backfilling excavations for bridges, culverts, retaining walls, and structural plate pipes, and pipe arches. The contract may specify alternate structure backfill materials and methods.

### 210.2 Materials

#### 210.2.1 General Requirements

- (1) Furnish and use sand, a mixture of sand and gravel, crushed gravel, crushed stone, crushed concrete, or other fragmented mineral material. The maximum material size used shall have 100 percent pass a 3-inch (75 mm) sieve, not less than 25 percent by weight passes a No. 4 (4.75 mm) sieve and, of the material passing the No. 4 (4.75 mm) sieve, not more than 15.0 percent passes a No. 200 (75 µm) sieve.
- (2) Conform to the definitions under 301.2.

#### 210.2.2 Sampling and Testing

- (1) The department will sample and test structure backfill conforming to the following:  
Sampling<sup>[1]</sup> .....AASHTO T 2  
Percent passing the 200 (75 µm) sieve<sup>[1]</sup> .....AASHTO T 11  
Gradation<sup>[1]</sup> .....AASHTO T 27  
<sup>[1]</sup> As modified in CMM 4.
- (2) The department may sample and test using other engineer-approved field methods.

#### 210.2.3 Source

- (1) Except as specified for materials utilized from roadway excavation under 104.8, the contractor is responsible for negotiating with property owners to obtain structure backfill material.
- (2) Remove structure backfill material and restore the pit to the final condition as specified for borrow in 208.3 and final cleanup in 104.9.
- (3) In addition to removing the topsoil, substantially remove any overburden of soil, or earthy materials passing the No. 200 (75 µm) sieve before excavating the structure backfill material.
- (4) Restore the site by replacing or disposing of the removed overburden and ensure that disposal sites are neatly constructed.

### 210.3 Construction

- (1) Place and compact structure backfill material as specified in 206.3.13.

### 210.4 Measurement

- (1) The department will measure Backfill Structure by the cubic yard acceptably completed, measured in the vehicle.

### 210.5 Payment

- (1) The department will pay for measured quantities at the contract unit prices under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
210.0100	Backfill Structure	CY

- (2) Payment for Backfill Structure is full compensation for providing, placing, and compacting the material; for stripping, clearing, grubbing, shaping, trimming, and cleaning up the pits; for salvaging, stockpiling, rehandling, spreading salvaged material over excavated pit areas; and for disposing of surplus materials.
- (3) The department will pay for erosion control, fertilizing, and seeding of pits and associated areas separately as specified for borrow sites and material disposal sites in 628.5.1.