

01/05/12

SSD: 01/05/12

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**DERRY-LONDONDERRY EXIT 4A  
13065**

**FEBRUARY 6, 2020**

**SPECIAL PROVISION**

**AMENDMENT TO SECTION 203 -- EXCAVATION AND EMBANKMENT**

**Item 203.53 – Low Permeability Fill (F)**

**Add** to Description:

**1.3** This work shall consist of furnishing and placing a low permeability fill in conformity with the lines, grades, and dimensions shown on the plans or as ordered. The intent is to place a layer of low permeable soil that reduces the rate of surface water infiltration into the ground.

**Add** to Materials:

**2.10** Low permeability fill shall be natural, inorganic soil that is free from foreign matter such as construction debris, trash, wood, roots, leaves, and other organic matter.

**2.10.1** An example of soil that may be considered acceptable for low permeability fill is a well graded, granular soil with high silt content. Low permeability fill shall be as follows when tested in accordance with AASHTO T 27:

Sieve Size	Percentage by Weight Passing
3 in (75 mm)	100
No. 4 (4.75 mm)	80 - 100
No. 40 (0.425 mm)	60 – 90
No. 100 (0.150 mm)	40 – 60
No. 200 (0.075 mm) in total	25 – 45

**2.10.2** For a preliminary determination of compliance with the specification for grading and for determination of the maximum dry density, the Design-Build Team shall submit to the Engineer samples of materials to be used for low permeability fill prior to its placement. Samples may be taken from the pit or from stockpiles. Sampling and testing shall conform to AASHTO T 27, R 13, and T 99. Materials not meeting these specifications shall not be placed.

**Add** to Construction Requirements:

**3.13** Low permeability fill shall be placed in 6 in maximum lifts and shall be compacted to at least 95 percent of the maximum dry density. During compaction, the moisture content of the

low permeability fill shall be between 1 percent below and 3 percent above the optimum moisture content. The maximum dry density and the optimum moisture content shall be as determined by AASHTO T 99 (Standard Proctor Test).