

All Regional Engineers

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Special Provision for Granular Materials

July 27, 2012

This special provision was developed by the Bureau of Materials and Physical Research to clarify terminology and allow additional gradations for various applications of granular materials. It removes the “nonporous granular” embankment and backfill options and in its place, provides the designer the option to specify either “granular” or “porous granular”. The porous granular gradations allow maximum permeability while the granular gradations have higher fines content acceptable or desired in some applications.

This special provision should be inserted into contracts utilizing Granular Embankment, Granular Backfill, Porous Granular Embankment, Porous Granular Backfill, Bedding, Trench Backfill, or French Drains.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 9, 2012 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 27, 2012.

80303m

**GRANULAR MATERIALS (BDE)**

Effective: November 1, 2012

Revise the title of Article 1003.04 of the Standard Specifications to read:

**“1003.04 Fine Aggregate for Bedding, Trench Backfill, Embankment, Porous Granular Backfill, Sand Backfill for Underdrains, and French Drains.”**

Revise Article 1003.04(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradations for granular embankment, granular backfill, bedding, and trench backfill for pipe culverts and storm sewers shall be FA 1, FA 2, or FA 6 through FA 21.

The fine aggregate gradation for porous granular embankment, porous granular backfill, french drains, and sand backfill for underdrains shall be FA 1, FA 2, or FA 20, except the percent passing the No. 200 (75 µm) sieve shall be 2±2.”

Revise Article 1004.05(c) of the Standard Specifications to read:

“(c) Gradation. The coarse aggregate gradations shall be as follows.

Application	Gradation
Blotter	CA 15
Granular Embankment, Granular Backfill, Bedding, and Trench Backfill for Pipe Culverts and Storm Sewers	CA 6, CA 9, CA 10, CA 12, CA17, CA18, and CA 19
Porous Granular Embankment, Porous Granular Backfill, and French Drains	CA 7, CA 8, CA 11, CA 15, CA 16 and CA 18”