

**290 GRANULAR SUBBASE.**  
**(REV 2-12-07) (FA 3-9-07) (7-07)**

SECTION 290 (Pages 229–230) is deleted and the following substituted:

**SECTION 290**  
**GRANULAR SUBBASE**

**290-1 Description.**

Construct a granular subbase as a component of an Optional Base.

**290-2 Materials.**

Select one of the materials listed below and conform to the following requirements:

Graded Aggregate .....	204-2
Limerock .....	Section 911
Bank Run Shell .....	Section 913
Shell Rock .....	Section 913A
Cemented Coquina .....	Section 915

**290-3 Construction Methods.**

For the subbase material selected, construct the subbase in conformance with the following:

Limerock .....	Section 200
Bank Run Shell .....	Section 200
Shell Rock .....	Section 200
Cemented Coquina .....	Section 200
Graded Aggregate .....	Section 204

Straightedge and hard-planing provisions will not apply. Compact the subbase to a minimum of 98% of the maximum density as determined under AASHTO FM 1-T 180, Method D. Priming is not required.

When Granular Subbase is substituted for Subgrade on shoulders, achieve a minimum of 95% density of the maximum density as determined under AASHTO FM 1-T 180, Method D.

**290-4 Thickness Requirements.**

**290-4.1 General:** Do not substitute granular subbase materials in excess of the tolerance specified for the asphalt portion of the Optional Base.

**290-4.2 Measurements:** When the Department is ready to measure the finished subbase, provide the coring equipment and the operator and include this in the unit price for Optional Base. The Engineer will select the coring locations and make the acceptance measurements. Thickness measurements will be taken through 3 inch diameter holes. For subbase areas greater than 1,000 yd<sup>2</sup>, the minimum frequency of measurement will be one per 200 feet of roadway. For smaller subbase areas, the minimum frequency of measurement will be one per 500 yd<sup>2</sup> of subbase.

**290-4.3 Maximum Allowable Thickness:** The maximum allowable thickness of the subbase is 4 1/4 inches. Remove and replace areas of subbase exceeding the maximum allowable thickness.

**290-4.4 Minimum Allowable Thickness:** The minimum allowable thickness of the subbase is 3 1/2 inches. Remove and replace areas not meeting the minimum allowable thickness. If authorized by the Engineer, additional asphalt may be substituted to achieve the full combined Optional Base thickness.