

1600000, Stabilization  
Comments From Industry Review

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Comments:

160-2.3 Existing Base: “When the materials from an existing base is used...”, should read,  
“When material from an existing base is used...”  
 (“material” should be singular.)

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**Tim Ruelke**  
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Comment:

Text: In 160-2, why are we eliminating the Contractor's option to use 6" of base in stead of 12" of LBR 40 material. I have had several Contractors choose to do this over the years.

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**Duane Brautigam**

Comment

160-2.2 - Combine first two sentences - very redundant. 160-3.2.1.1 - In the first sentence, who is rejecting? Active voice would indicate Contractor rejects; is that the intent or is it the Engineer? Same comment for last sentence in this subarticle, who is rejecting? 160-4.2.1.2 - The use of "following" twice in the first sentence is awkward. Suggest rewording. 160-4.2.4 (also 160-3.2.1) - In Table, the abbreviations "LL" and "PI" should be spelled out.

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**Barbara Beacham**  
863-519-4208

Comment:

I recommend considering the following:

160-1 Description

**Leave in 6.8** and add Section 105

160-3.2.1 Sampling and Testing of Local Materials:

Require a resolution sample be picked up at the same time the verification sample is pulled.

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Holly Bauman  
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Comments:

160-3.1: Should LOT be changed?

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Anjani Girwarr  
Assistant General Counsel  
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Comments:

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Suggest using the titles in the table cells like this: "The following under the Tolerance column are allowed for the values listed in Specified Bearing Value column:"

**160-754.2.1.2 Undertolerances in Bearing Value Requirements:** *The following under tolerances are allowed for the following required Bearing Values:*

First instance of the acronym "LBR" should be defined before being used in the rest of the document.

First instance of "LBR" appears on page 3 of 10 in this paragraph.

*160-2.4 Granular Subbase: The Engineer may allow, at no additional cost to the Department, the substitution of 6 inches of Granular Subbase meeting the requirements of 290-2 & 290-3, when 12 inches of Stabilization requiring an LBR value of 40 is specified.*

The definition of "LBR" does not appears until page 7 of 10 in the paragraph listed below.

**160-745.3.1.1 Bearing Values:** Test the Stabilized Subgrade sample collected in 160-754.3.1.3. Determine the Limerock Bearing Ratio (LBR) in accordance with FM 5-515 and 160-754.2.4.

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Typo? Word "Undertolerances" is this two words or one since it is used in both as "undertolerances" in the title and then as "under tolerances" in the sentence that follows.

**160-754.2.1.2 Undertolerances in Bearing Value Requirements:** *The following under tolerances are allowed for the following required Bearing Values:*

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Comments:

In section 160-2.4, regarding the reference to 290-3, the second paragraph should not apply. You should test according to what base material you are using in lieu of Type B.

In section 160-3.2.1, the first sentence states “before mixing.” Does this mean to test only the stabilizing material?

In section 160-4.2.1.2 delete undertolerances for the specified bearing value. Too many roads are built on the 5.0 undertolerance. We would like to emphasize the deletion of undertolerance. Too often contractors don’t stabilize and hope to meet the undertolerance requirement of LBR 35.

In section 160-6, Basis of Payment, in areas where existing subgrade materials meet the design bearing value, is the contractor required to mix the existing material to receive full payment?

We recommend adding requirement for soil classification on mixed soil (particularly when requesting Unsoaked LBR). This is an inexpensive test and valuable information can be gained. For Verification and Resolution testing D3 performs classification testing as a practice.

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**Larry Keen**  
386-961-7741

**Comment**

Section 160-3.1, paragraph 3, references 160-7.2. This looks like it should be 160-4.2. Section 160-3.6 references 160-5.2.3. This looks like it should be 160-4.2.3. Section 160-4.2.3.1 references 160-5.2.3.2. This looks like it should be 160-4.2.3.2. The “Mixing Depth Thickness” section is shown as 160-5.4.2. It looks like it should be listed as 160-4.4.2.

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**Comments:**

It would appear a grammatical error has occurred as the word “be” should be placed between, may be mixed.... And the comma behind the word mixed should be removed and placed behind the word course; The subgrade may be mixed in one course, 160-543.3 Mixing: Perform mixing using rotary tillers, a plant, or other equipment meeting the approval of the Engineer. The subgrade may mixed, in one course if the equipment and method of construction provides the uniformity, particle size limitation, compaction and other desired results of 160-4.

160-2.2 Local Material Second sentence needs a comma between: materials, test. 160-3.3 Mixing Second sentence needs a “be” between may and mixed. 160-4.2.1.2 Under-tolerances Consider putting a limit on how many under-tolerances are allowed. Or why not make the under-

tolerances the requirement?

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