

ORIGINATION FORM

Date: **4/23/13**

Originator: Howie Moseley

Contact Information: **386-961-7853, howard.moseley@dot.state.fl.us**

Specification Title: **Prepared Soil Layer**

Specification Section, Article, or Subarticle Number: **162-5**

Why does the existing language need to be changed? **Lot size is not defined. The verification sampling frequency is not defined. A minimum organic content is not defined for a single test. There is no resolution procedure for failing verification samples.**

Summary of the changes: **Lot size defined as 0.5 shoulder miles. A minimum organic content of 1.5% is specified for each lot. The verification sampling frequency of 1 per four Lots is added into the spec. A resolution procedure is added for failing verification samples.**

Are these changes applicable to all Department jobs? **Yes**

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **No change in project costs.**

If yes, what is the estimated change in costs?

With who have you discussed these changes? **All of the District Materials Engineers, All of the District Construction Engineers, State Materials Office, and State Construction Office**

What other offices will be impacted by these changes? **none**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **No**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **I don't think so.**

Contact the State Specifications Office for assistance in completing this form.

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M E M O R A N D U M

DATE: May 10, 2013

TO: Specification Review Distribution List

FROM: Trey Tillander, Manager State Specifications and Estimates Office

SUBJECT: Proposed Specification: **1620500 Prepared Soil Layer.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Howie Moseley, D2 Materials Pavement Engineer, to clarify language relating to Lot size and sampling and testing requirements and procedures.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965TT or trey.tillander@dot.state.fl.us. Comments received after **June 7, 2013**, may not be considered. Your input is encouraged.

TT/dt
Attachment

PREPARED SOIL LAYER.
(REV 4-23-13)

ARTICLE 162-5 (Page 199) is deleted and the following substituted:

162-5 Acceptance Testing.

The Engineer reserves the right to waive or reduce testing requirements for shoulder treatment projects as defined in the Design Standards, Index No. 105.

Immediately after completion of construction operations, sample and test the prepared soil layer at a testing laboratory qualified under 6-9. *A LOT is defined as 0.5 shoulder miles.* Take random *quality control (QC)* samples at a minimum of one sample per ~~2,500 square yards~~ LOT of prepared surface. When the source of added material changes, the Engineer will require an additional sample. ~~Test results will be averaged for each 10,000 square yards~~ *Average four sequential LOTs representing 2.0 shoulder miles* to determine ~~specification~~ compliance *with Section 987. Raise the organic content of any individual LOT with an organic content below 1.5% to at least 1.5%. The Engineer will take a Verification sample at a minimum frequency of one sample per 4 LOTs. If the Verification sample fails (below 1.5% for organics), but the QC sample taken in the corresponding LOT passes, the Engineer will obtain a resolution sample within the same LOT to resolve the non comparison.* The Engineer reserves the right to take and test additional samples to determine specification compliance. For failing samples, take and test additional samples, as directed by the Engineer, to delineate areas that need re-treatment. Perform re-treatment at no additional cost to the Department. Perform additional testing of retreated areas, at locations directed by the Engineer, to determine specification compliance. Provide copies of all test results to the Engineer.

162-5.1 Finish Soil Layer: Test sampled material for organic matter content, pH, primary macronutrients (N, P K) and secondary macronutrients (S, Ca, Mg) content. Acquire from the soil testing laboratory fertilizer recommendations for the specific plants to be grown in the area. Do not seed, seed and mulch, or place sod until acceptable values for organic content and pH are obtained in accordance with the requirements of 987-1.

162-5.2 Organic Soil Layer: Test sampled material for organic matter content in accordance with the requirements of 987-1.

162-5.3 Blanket Material: Test blanket material for depth in accordance with the Plans and for soil classification in accordance with AASHTO M145. Add materials as necessary to achieve the required depth.