



Florida Department of Transportation

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GOVERNOR

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THOMAS F. BARRY, JR.
SECRETARY

MEMORANDUM

DATE: November 5, 2002

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: Proposed Specifications Change – D1200008 – Excavation and Embankment - Dry Fill Method.

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Excavation and Embankment - Dry Fill Method.

This change was proposed by Sastry Putchu of the State Construction Office to define general embankment construction requirements for the dry fill method and improve construction efficiency.

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 SP965DB or duane.brautigam@dot.state.fl.us. Comments received after December 3, 2002 may not be considered. Your input is encouraged.

DFB/jho

Attachment

COMMENTS:

Submitted by:

Phone #:

**EXCAVATION AND EMBANKMENT.
(REV 10-31-02)**

SUBARTICLE 120-8.2 (of the Supplemental Specifications) is deleted and the following substituted:

120-8.2 Dry Fill Method:

~~120-8.2.1 General: Except as provided below for material placed on unstable ground and for materials used for flattening slopes, construct embankments in successive layers of not more than 6 inches [150 mm] compacted thickness, for the full width of the embankment. Construct embankments to meet compaction requirements in article 120-9 and in accordance with the acceptance program requirements in article 120-10. Restrict the compacted thickness of the last embankment lift to 6 inches maximum.~~

120-8.2.1.1 For A-3 and A-2-4 Materials (As Designated in Design Standard Index 505): Construct the embankment in successive layers with lifts up to a maximum compacted thickness of 12 inches (300 mm). The percentage of fines (minus 200) in the A-2-4 material shall not exceed 15%.

120-8.2.1.2 For A-1 and Plastic materials (As designated in Design Standard Index 505): Construct the embankment in successive layers with lifts up to a maximum compacted thickness of 6 inches (150mm).

Alternately, for A-1 and Plastic material, construct embankments using thick lift construction in successive layers of not more than 12 inches [300 mm] compacted thickness, having demonstrated with a successful test section, the possession and control of compacting equipment sufficient to achieve density required by 120-10.2 for the full depth of a thicker lift, and if the Engineer approves the compaction effort. Notify the Engineer prior to beginning construction of a test section. Construct a test section of the length of one full LOT. Perform five QC tests at random locations within the test section. All five QC tests and a Department Verification test must meet the density required by 120-10.2 and be verified by the Engineer. Identify the test section with the compaction effort and soil classification in the Density Log Book. In case of a change in compaction effort or soil classification, failing QC test or when the QC tests cannot be verified, construct a new test section. The Contractor may elect to place material in 6 inches [150 mm] compacted thickness at any time. Construct all layers approximately parallel to the centerline profile of the road.

The Engineer reserves the right to terminate the Contractor's use of thick lift construction. Whenever the Engineer determines that the Contractor is not achieving satisfactory results, revert to the 6 inch [150 mm] compacted lifts.

As far as practicable, distribute traffic over the work during the construction of embankments so as to cover the maximum area of the surface of each layer.

Construct embankment in the dry whenever normal dewatering equipment and methods can accomplish the needed dewatering.

120-8.2.1.3 Equipment and Methods: Provide normal dewatering equipment including, but not limited to, surface pumps, sump pumps and trenching/digging machinery. Provide normal dewatering methods including, but not limited to, constructing shallow surface drainage trenches/ditches, using sand blankets, sumps and siphons.

When normal dewatering does not adequately remove the water, the Engineer may require the embankment material to be placed in the water or in low swampy ground in accordance with 120-9.2.3.