

## **ORIGINATION FORM**

Date: 10/25/13

Originator: Greg Sholar

Contact Information: 352.955.2920; gregory.sholar@dot.state.fl.us

Specification Title: Superpave Asphalt Concrete

Specification Section, Article, or Subarticle Number: 334

Why does the existing language need to be changed? Refinement of specification.

Summary of the changes: Clarify permissible locations within the pavement structure for Type SP-19.0 mixtures, increase permissible number of mix designs, modify web link for approved warm mix products, and specify maximum number of days a lot can remain open.

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.

If yes, what is the estimated change in costs? N/A.

With who have you discussed these changes? FDOT staff and Asphalt Contractors' Association of Florida.

What other offices will be impacted by these changes? Construction.

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

Are all references to external publications current? N/A.

If not, what references need to be updated (please include changes in the redline)?

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No.

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:** November 13, 2013

**TO:** Specification Review Distribution List

**FROM:** Daniel Scheer, P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: **3340104 Superpave Asphalt Concrete.**

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

This change was proposed by Greg Sholar of the State Materials Office (SMO) to clarify permissible locations within the pavement structure for Type SP-19.0 mixtures, increase permissible number of mix designs, modify web link for approved warm mix products, and specify maximum number of days a lot can remain open.

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 SP965DS, or [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us). Comments received after **December 11, 2013**, may not be considered. Your input is encouraged.

DS/dt  
Attachment

**SUPERPAVE ASPHALT CONCRETE.**  
**(REV 10-25-13)**

SUBARTICLE 334-1.4.1 is deleted and the following substituted:

**334-1.4.1 Layer Thicknesses - Fine Mixes:** The allowable layer thicknesses for fine Type SP Asphalt Concrete mixtures are as follows:

Type SP-9.5..... 1 to 1-1/2 inches

Type SP-12.5..... 1-1/2 to 2-1/2 inches

Type SP-19.0..... 2 to 3-1/2 inches

In addition to the minimum and maximum thickness requirements, the following restrictions are placed on fine mixes when used as a structural course:

Type SP-9.5 - Limited to the top two structural layers, two layers maximum.

Type SP-9.5 – May not be used on Traffic Level D and E applications.

Type SP-19.0 - May not be used in the final (top) structural layer *below FC-5 mixtures. Type SP-19.0 mixtures are permissible in the layer directly below FC-9.5 and FC-12.5 mixtures.*

SUBARTICLE 334-3.2.1 is deleted and the following substituted:

**334-3.2.1 General:** Design the asphalt mixture in accordance with AASHTO R 35-12, except as noted herein. Prior to the production of any asphalt mixture, submit the proposed mix design with supporting test data indicating compliance with all mix design criteria to the Engineer. For Traffic Level B through E mix designs, include representative samples of all component materials, including asphalt binder. Allow the State Materials Engineer a maximum of four weeks to either conditionally verify or reject the mix as designed.

Do not use more than ~~three~~*four* mix designs per nominal maximum aggregate size per traffic level per binder grade per year, where the year starts at the Notice to Proceed. Exceeding this limitation will result in a maximum Composite Pay Factor (CPF) of 1.00 as defined in 334-8.2 for all designs used beyond this limit.

Warm mix technologies (additives, foaming techniques, etc.) listed on the Department's website may be used in the production of the mix. The URL for obtaining this information, if available, is:

<http://www.dot.state.fl.us/Specificationoffice/implemented/URLinSpecs/files/WarmMixAsphalt.pdf>

<http://www.dot.state.fl.us/statematerialsoffice/quality/programs/warmmixasphalt/index.shtm>.

SUBARTICLE 334-5.3 is deleted and the following substituted:

**334-5.3 Partial LOTs:** A partial LOT is defined as a LOT size that is less than a full LOT. A partial LOT may occur due to the following:

1. The completion of a given mix type or mix design on a project.

2. Closure of the LOT due to time. LOTs will be closed 30 calendar days after the start of the LOT. Time periods other than 30 calendar days may be used if agreed to by both the Engineer and the Contractor, *but under no circumstances shall the Lot be left open longer than 60 days.*

3. A LOT is terminated per 334-5.4.4.

All partial LOTs will be evaluated based on the number of tests available, and will not be redefined. If a LOT is closed before the first plant random sample is obtained, then the LOT will be visually accepted by the Engineer and the LOT pay factor will be 1.00.