

ORIGINATION FORM

Date: 5-18-11

Originator: Greg Sholar

Contact Information: SMO (352-955-2920)

Specification Title: Asphalt Concrete Friction Courses

Specification Section, Article, or Subarticle Number: 337

Why does the existing language need to be changed? 1. There are conflicts with specification references to sections 320 and 330 due to a rewrite of those sections.

Summary of the changes: 1. Change the specification reference in articles and subarticles 337-5, 337-7.3.2, 337-7.5.2, 337-7.7, 337-8.2, and 337-11.

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?**

With who have you discussed these changes? SMO Bituminous staff

What other offices will be impacted by these changes? Construction, but not in a negative way.

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

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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ANANTH PRASAD, P.E.
SECRETARY

M E M O R A N D U M

DATE: June 2, 2011

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **3370500 Asphalt Concrete Friction Course.**

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 to correct conflicts with specification references to Sections 320 and 330 due to a rewrite of those sections.

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 SP965RP or rudy.powell@dot.state.fl.us. Comments received after **June 30, 2011** may not be considered. Your input is encouraged.

RP/cah
Attachment

ASPHALT CONCRETE FRICTION COURSES.
(REV 5-19-11)

ARTICLE 337-5 (of the Supplemental Specification) is deleted and the following substituted:

337-5 Contractor's Process Control.

Provide the necessary process control of the friction course mix and construction in accordance with the applicable provisions of ~~320-2~~, 330-2 and 334-4.

The Engineer will monitor the spread rate periodically to ensure uniform thickness. Provide quality control procedures for daily monitoring and control of spread rate variability. If the spread rate varies by more than 5% of the spread rate set by the Engineer in accordance with 337-8, immediately make all corrections necessary to bring the spread rate into the acceptable range.

SUBARTICLE 337-7.3.2 (of the Supplemental Specification) is deleted and the following substituted:

337-7.3.2 Temperature of the Mix: Heat and combine the asphalt binder and aggregate in a manner to produce a mix having a temperature, when discharged from the plant, meeting the requirements of ~~330~~320-6.3. Meet all requirements of 330-~~9.1-26.1.3~~ at the roadway. The target mixing temperature shall be established at 320°F for mixtures utilizing ARB-12 asphalt binder. For mixtures utilizing PG 76-22 asphalt binder, the target mixing temperature shall be established by the Contractor. The target mixing temperature may be reduced when using warm mix technology.

SUBARTICLE 337-7.5.2 (of the Supplemental Specification) is deleted and the following substituted:

337-7.5.2 Temperature of the Mix: Heat and combine the asphalt binder and aggregate in a manner to produce a mix having a temperature, when discharged from the plant, meeting the requirements of ~~330~~320-6.3. Meet all requirements of 330-~~9.1-26.1.3~~ at the roadway.

SUBARTICLE 337-7.7 (of the Supplemental Specification) is deleted and the following substituted:

337-7.7 Transportation Requirements of Friction Course Mixtures: Cover all loads of friction course mixtures with a tarpaulin, or waterproof cover, meeting requirements of 320-~~5.47~~.

SUBARTICLE 337-8.2 (of the Supplemental Specification) is deleted and the following substituted:

337-8.2 FC-5: The total thickness of the FC-5 layer will be the plan thickness as shown in the Contract Documents. For construction purposes, the plan thickness will be converted to spread rate based on the combined aggregate bulk specific gravity of the asphalt mix being used as shown in the following equation:

$$\text{Spread rate (lbs. per square yard)} = t \times G_{sb} \times 40.5$$

Where: t = Thickness (in.) (Plan thickness)

G_{sb} = Combined aggregate bulk specific gravity from the verified mix design

The weight of the mixture shall be determined as provided in 320-23.2.

Plan quantities are based on a G_{sb} of 2.635, corresponding to a spread rate of 80 lbs. per square yards. Pay quantities will be based on the actual combined aggregate bulk specific gravity (G_{sb}) of the mix being used.

ARTICLE 337-11 (of the Supplemental Specification) is deleted and the following substituted:

337-11 Method of Measurement.

For the work specified under this Section (including the pertinent provisions of Sections 320 and 330), the quantity to be paid for will be the weight of the mixture, in tons. The pay quantity will be based on the project average spread rate, limited to a maximum of 105% of the spread rate determined in accordance with 337-8 or as set by the Engineer. The project average spread rate is calculated by totaling the arithmetic mean of the average daily spread rate values for each layer.

The bid price for the asphalt mix will include the cost of the asphalt binder (asphalt rubber (or polymer), asphalt cement, ground tire rubber, anti-stripping agent, blending and handling) and the tack coat application as directed in 300-8, as well as fiber stabilizing additive and hydrated lime (if required). There will be no separate payment or unit price adjustment for the asphalt binder material in the asphalt mix. The weight will be determined as provided in 320-3.2 (including the provisions for the automatic recordation system).

Prepare a Certification of Quantities, using the Department's current approved form, for the certified asphalt concrete friction course pay item. Submit this certification to the Engineer no later than Twelve O'clock noon Monday after the estimate cut-off or as directed by the Engineer, based on the quantity of asphalt produced and accepted on the roadway per Contract. The certification must include the Contract Number, FPID Number, Certification Number, Certification Date, period represented by Certification and the tons produced for each asphalt pay item.