

Origination Form

Specifications

Name:	Sholar, Greg	Specification Number:	337-3.2.2.1, 337-3.2.2.2, 337-4.1
Email:	Gregory.Sholar@dot.state.fl.us	Associated Specs:	None
Date:	2024-05-03T18:18:03Z	Verified:	VERIFIED

Summary:

There is one main change in 337, with the other changes being editorial cleanup. The main change allows 20% reclaimed asphalt pavement (RAP) to be used in dense graded asphalt friction course mixtures containing FL limestone.

Justification:

This change will help contractors that utilize limestone in their friction course mixtures (south FL contractors) reduce their large quantities of accumulated RAP at their asphalt plants.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Materials Manual		No
Traffic Engineering Manual		No

Are changes in line with promoting and making progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

There is one main change in 337, with the other changes being editorial cleanup. The main change allows 20% reclaimed asphalt pavement (RAP) to be used in dense graded asphalt friction course mixtures containing FL limestone. Historically, no RAP has been allowed in limestone friction course mixtures. However, recent research has shown that 20% RAP is not detrimental to the friction performance when combined with limestone aggregates. For contractors that utilize limestone in their friction course mixtures (south FL contractors) this change will help them reduce their large quantities of accumulated RAP at their asphalt plants.

What financial impact does the change have; project costs, pay item structure, or consultant fees?

This should have a positive financial impact to the Department by slightly lowering the cost of dense graded friction course mixtures by allowing 20% RAP to replace virgin aggregates.

What impact does the change have on production or construction schedules?

There is no impact on production or construction schedules.

How does this change improve efficiency or quality?

This change will allow contractors to use RAP material already stored at their asphalt plant site instead of having to procure new virgin aggregate.

Which FDOT offices does the change impact?

All District Construction and Materials offices.

What is the impact to districts with this change?

There is no impact to the Districts with this change, other than potentially reduced costs, as mentioned previously.

Does the change shift risk and to who?

There is no shift in risk.

Provide summary and resolution of any outstanding comments from the districts or industry.

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: <https://www.fdot.gov/programmanagement/Specs.shtm>

What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

ASPHALT CONCRETE FRICTION COURSES.**(REV 5-3-24)**

SUBARTICLE 337-3.2.2 is deleted and the following substituted:

337-3.2.2 FC-9.5 and FC-12.5:

337-3.2.2.1: Aggregates: Use an aggregate blend of approved friction course aggregates in accordance with Table 337-1. For classification A, up to 20% RAP may be used. For classifications that B and C, ~~that allow non-friction aggregate~~ up to 20% RAP and up to 20% of the remaining fine aggregate from other sources of aggregate not approved for friction courses may be used. Mixtures utilizing High Polymer (HP) binder are not allowed to contain RAP.

A list of aggregates approved for use in friction course may be available on the Department's website. The URL for obtaining this information, if available, is: <https://mac.fdot.gov/>.

337-3.2.2.2: Asphalt Binder: Use an asphalt binder as called for in the Contract Documents meeting the requirements of Section 916. High polymer binder may be substituted in a mixture with PG 76-22 binder at no additional cost to the Department.

Classification	Minimum percentage of approved friction course aggregates for FC-5 mixtures	Minimum percentage of approved friction course aggregates for FC-9.5 and FC-12.5 mixtures	Percentage of hydrated lime required in FC-5 mixtures
A	100	100 80	0
B	100	60	1.0
C	100	60	1.5

SUBARTICLE 337-4.1 is deleted and the following substituted:

337-4 Mix Design.

337-4.1 FC-5: The Department will design the FC-5 mixtures. Furnish the materials and all appropriate information (source, gradation, etc.) as specified in 334-3.2.7. The Department will have three weeks to design the mix.

The Department will establish the design binder content for FC-5 within the following ranges based on aggregate type:

Aggregate Classification	Percent Binder Content
A	6.0 - 7.5 6.5 - 8.0
B or C	6.5 - 8.0 6.0 - 7.5