

Origination Form

Specifications

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Date:	2026-04-02T13:50:15Z	Associated Specs:	N/A

Summary:

Summary of changes: 1. Modified the gradation requirements for the FC-7 mix type. 2. Removed duplicate wording related to the composite pay factor (CPF). 3. Updated some hyperlinks.

Justification:

The change will prevent a potential aggregate shortage problem for FC-7 mix production.

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?

Yes, the changes to Section 337 are inline with improving the quality of asphalt without adding cost. The mix design change was suggested by Industry.

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

No financial impact.

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

There are no impacts on production or construction schedules.

How does this change improve efficiency or quality?

A subtle change to the design gradation for FC-7 will allow for certain aggregate sizes to be used to reduce demand on other in-demand sizes, therefore potentially eliminating an aggregate supply concern.

Which FDOT offices does the change impact?

Materials and Construction.

What is the impact to districts with this change?

There are no impacts to the Districts.

Does the change shift risk and to who?

The change reduces risk for both the contractor and the Department, by alleviating aggregate supply issues.

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 4-2-26)**

SUBARTICLE 337-3.2.1.1 is deleted and the following substituted:

337-3.2.1.1 Aggregates: Use an aggregate blend which consists of either 100% Class A friction aggregate or 100% Class B and/or C aggregates in accordance with Table 337-1. Do not blend Class A aggregate with Class B or C aggregate for FC-5 and FC-7 mixtures.

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/https://macreporting.fdot.gov/ReportsMainView>.

SUBARTICLE 337-3.2.2.1 is deleted and the following substituted:

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 B and C, 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/https://macreporting.fdot.gov/ReportsMainView>.

SUBARTICLE 337-3.3.1 is deleted and the following substituted:

337-3.3.1 FC-5 and FC-7: Use a mixture having a gradation at design within the ranges shown in Table 337-2.

Table 337-2									
FC-5 Gradation Design Range									
3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200
100	85-100	60-75	15-25	5-10	--	--	--	--	2-5
FC-7 Gradation Design Range									
3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200
-100	-96-100	85-100	25-40	10-15	--	--	--	--	2-5

SUBARTICLE 337-12.3 is deleted and the following substituted:

337-12.3 FC-5 and FC-7: Meet the requirements of 334-8 with the following exceptions:

1. Pay factors will be calculated for asphalt binder content and the percentages passing the 3/8 inch, the No. 4, and the No. 8 sieves only.
2. Table 337-5 replaces Table 334-8.
3. Table 337-6 replaces Table 334-9.

4. For FC-5, the Composite Pay Factor equation in 334-8.3 is replaced with the following:

$$\text{CPF} = [(0.20 \times \text{PF } 3/8 \text{ inch}) + (0.30 \times \text{PF No. 4}) + (0.10 \times \text{PF No. 8}) + (0.40 \times \text{PF AC})]$$

$$\text{CPF} = [(0.20 \times \text{PF } 3/8 \text{ inch}) + (0.30 \times \text{PF No. 4}) + (0.10 \times \text{PF No. 8}) + (0.40 \times \text{PF AC})]$$

5. For FC-7, the Composite Pay Factor equation in 334-8.3 is replaced with the following:

$$\text{CPF} = [(0.10 \times \text{PF } 3/8 \text{ inch}) + (0.30 \times \text{PF No. 4}) + (0.15 \times \text{PF No. 8}) + (0.45 \times \text{PF AC})]$$

Table 337-5 Small Quantity Pay Table for FC-5 and FC-7		
Pay Factor	1-Test Deviation	2-Test Average Deviation
Asphalt Binder Content (%)		
1.05	0.00-0.25	0.00-0.18
1.00	0.26-0.50	0.19-0.35
0.90	0.51-0.60	0.36-0.42
0.80	>0.60	>0.42
3/8 inch Sieve (%)		
1.05	0.00-3.25	0.00-2.30
1.00	3.26-6.50	2.31-4.60
0.90	6.51-7.50	4.61-5.30
0.80	>7.50	>5.30
No. 4 Sieve (%)		
1.05	0.00-2.50	0.00-1.77
1.00	2.51-5.00	1.78-3.54
0.90	5.01-6.00	3.55-4.24
0.80	>6.00	>4.24
No. 8 Sieve (%)		
1.05	0.00-1.50	0.00-1.06
1.00	1.51-3.00	1.07-2.12
0.90	3.01-3.50	2.13-2.47
0.80	>3.50	>2.47

Table 337-6 Specification Limits for FC-5 and FC-7	
Quality Characteristic	Specification Limits
Asphalt Binder Content (%)	Target ± 0.45
Passing 3/8 inch sieve (%)	Target ± 6.00
Passing No. 4 sieve (%)	Target ± 4.50
Passing No. 8 sieve (%)	Target ± 2.50