

3370000-ASPHALT CONCRETE COURSES FRICTION
RESPONSE TO COMMENTS FROM INDUSTRY REVIEW

Duane Brautigam
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Comments:

337-3.2.1.1 Suggest removing "for use in friction courses" from the last sentence. Since the stated intent is to allow alternate aggregates only for FC-5, this language is confusing. It is redundant for FC-5, since 337-3.2.1.1. is a subarticle under FC-5, but it could be confusing or misinterpreted to apply to FC-9.5 or FC-12.5 friction course mixtures as well.

Response:

The subarticle has been rewritten. The new specification language is as follows:

337-3.2 Specific Component Requirements by Mix:

337-3.2.1 FC-5:

337-3.2.1.1 Aggregates: Use an aggregate blend which consists of either 100% crushed granite, ~~or 100% crushed Oolitic limestone~~ or 100% other crushed materials (as approved by the Engineer for friction courses per Rule 14-103.005, Florida Administrative Code).

~~In addition to the requirements of Section 901, meet the following coarse aggregate requirements. Use either crushed granite or crushed limestone. Use crushed limestone from the Oolitic formation may be used if it contains a minimum of 12% silica material as determined by FM 5 510 and the Engineer grants approval of the source prior to its use. Crushed limestone from the Oolitic formation, which contains a minimum of 12% non-carbonate material (as determined by FM 5 510), and has been approved for this use.~~

~~In addition to the requirements of Section 902, meet the following fine aggregate requirements. Use either crushed granite screenings, or crushed Oolitic limestone screenings for the fine aggregate.~~

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: www.dot.state.fl.us/statematerialsoffice/quality/programs/qualitycontrol/materialslistings/sources/frictioncourse.pdf.

Kevin L. Price
QC/Project Manager
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Comments:

I can find no value to adding this information to the CQC plan. First, one of the options is not related to QC. Second, The CQC plan is required to be submitted within three weeks of contract award and most of the time it takes FDOT about 2.5 weeks to get the contracts back to the contractor. It is usually a struggle just to get something submitted on time. I feel that this option should be discussed at the preconstruction meeting. Anyone choosing the R squared option should be fully informed of how the testing is going to proceed. I would expect that the majority of the projects let with the options available would still be done with Quality Control and that very few, if any, would be done using department acceptance.

The declaration of what testing option the contractor has chosen should not be in the CQC plan.

Response:

An R² project would be no different than a conventional CQC project if the asphalt does not get placed at the beginning of a job. This comment does not account for the Department allowing the Contractor to submit the QC Plan in portions according to what work happens first. The asphalt portion of the QC Plan does not have to be submitted within three weeks of the award unless the Contractor wants to start on the asphalt right away. With the proposed revision, the Contractor would not need to identify the option until he chooses to submit the asphalt portion of the QC Plan (which could be well after the preconstruction conference). If we go back to the preconstruction conference requirement, in the case of a project where the asphalt doesn't start until later, the Contractor would actually have to identify the option well before he might want to. State Construction also wanted the wording added to the specification for the acceptance option to be identified in the QC Plan.

No change to specification is necessary.

Mike Horan
President
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Comments:

In 337-3.2.1 FC-5 - I disagree with the additional language to allow "Aggregates other than those listed above may be used if approved by the Engineer for use in friction course". We are lowering our standards and who knows what you would end up with.

Response:

The specification and website will only allow the use of sources of aggregate that are approved by the State Materials Office, which has met all of the Department requirements for use in friction course.

No change to specification is necessary.

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Comments:

Comments offered by Howie Moseley
District 2 Bituminous Engineer

337-6.2.1 (#8) Please clarify how the No. 8 sieve applies. I assume that it means for IV comparison with the contractor PC sample, but this should be spelled out in 337.

Response:

In 334-5.1.7.1, it states "If any of the Independent Verification test results, excluding the percent passing the No. 8 sieve, do not meet the requirements of Table 334-5..." For FC-5, it is not the intent to exclude the No. 8 sieve test results. The specification wording in 337 has been modified slightly to be clearer. The new wording is "8. In 334-5.1.7.1, the No. 8 sieve test results shall not be excluded." The IV tests results are compared to the Master Production Range regardless of whether there is a companion contractor split test.

Chris Papastratis
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Comments:

Section 337-3.2.1 One of the changes states “Aggregates other than those listed above may be used if approved by the Engineer for use in Friction Course” – This statement is conducive to arguments. The Department should identify the material that would allow in the FC. A better statement would be to specifically identify the criteria that the material must meet to be use in FC....

We agree with the other proposed changes.

Response:

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