3460301 STRUCTURAL PROTLAND CEMENT CONCRETE
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Dan Hurtado
(850) 414-5203
Dan.Hurtado@dot.state.fl.us

Comments: (11-19-19, Internal)
Some initial comments below. These can be resolve during Industry Review.

- Footnote 1 in Table 4 in 346-4.1… This is wordy and unclear. Please reword.
- 346-6.2, paragraph 2, sentence 1… Keep the original wording. The proposed wording is unclear. If there is not a problem, leave the original language alone.
- 346-11.1, paragraph 1, sentence 1… Keep the original wording. If there is not a problem, leave the original language alone.

Response: Change was made prior to Industry review.

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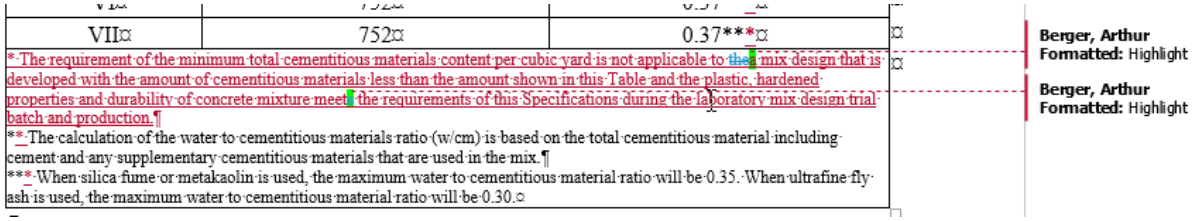
Arthur Berger
Arthur.Berger@dot.state.fl.us

Comments: (11-19-19, Internal)
A few minor edits highlighted in green. Set attachment.

Also, the following sentence appears to need clarification:

The Engineer will determine using appropriate strength-time correlation equivalency equations between the core strength at the actual test age to the 28 day strength for the design mix represented



VII¤	752¤	0.37***¤

*·The·requirement·of·the·minimum·total·cementitious·materials·content·per·cubic·yard·is·not·applicable·to·the·mix·design·that·is·developed·with·the·amount·of·cementitious·materials·less·than·the·amount·shown·in·this·Table·and·the·plastic,·hardened·properties·and·durability·of·concrete·mixture·meet·the·requirements·of·this·Specifications·during·the·laboratory·mix·design·trial·batch·and·production.¶
**·The·calculation·of·the·water·to·cementitious·materials·ratio·(w/cm)·is·based·on·the·total·cementitious·material·including·cement·and·any·supplementary·cementitious·materials·that·are·used·in·the·mix.¶
***·When·silica·fume·or·metakaolin·is·used,·the·maximum·water·to·cementitious·material·ratio·will·be·0.35.·When·ultrafine·fly·ash·is·used,·the·maximum·water·to·cementitious·material·ratio·will·be·0.30.¤

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Response: Change was made prior to Industry review.

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David Westcott
(407) 375-0844
david.westcott@cemex.com

Comments: (12-6-19, Industry)
346-10.2 – Coring for Determination of Structural Adequacy Obtain and test the cores in accordance with ASTM C42. Test the cores after obtaining the samples within seven calendar days and report the data to the Engineer within 14 calendar days of the 28 day compressive strength tests. Comment: How is this to be accomplished within the referenced timelines? This type of investigation usually falls to the producer, and rarely, if ever are the producers notified of failing results in adequate time to meet these specification time limit requirements. 2. When the acceptance compressive strength test result falls below the specified minimum compressive

strength by more than the limits established in 346-10.1, the structure may be core for determination of structural adequacy as directed by the Engineer. Use the result of the 28 day correlated core compressive strength or the acceptance compressive strength test, whichever is less. Comment: replace core with cored 2. When the acceptance compressive strength test result falls below the specified minimum compressive strength by more than the limits established in 346-10.1, the structure may be core for determination of structural adequacy as directed by the Engineer. Use the result of the 28 day correlated core compressive strength or the acceptance compressive strength test, whichever is less. Comment: Use the result of the core compressive strength or the acceptance compressive strength test, which ever is less. 346-11.3 The Engineer will determine payment reductions for low strength concrete accepted by the Department. The 28-day strength is represented by either cylinders or correlated cores strength test results in accordance with 346- 11.2. R Comment: The compressive strength is represented by either cylinders or cores strength test results in accordance with 346- 11.2. R
Response:

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