

3460202 PORTLAND CEMENT CONCRETE
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Pat McCann
954-254-8317
pmccann@targetengineering.com

Comments: (11-23-15)

346-3.1 General: "The air content range for all classes of concrete is less than or equal to 6.0%." Suggest eliminating the word "range" or revise the test to 0.0 to 6.0%.

Response: Change Made

346-3.2 Drilled Shaft Concrete: "Ambient temperature conditions for placement of drilled shaft concrete for summer condition is 85°F or higher, and below 85°F for normal condition." This is not new text, but is "summer condition" and "normal condition" defined?

Response: No change made, this is the definition for summer and normal conditions.

346-10.1 Investigation of Low Strength Concrete for and Structural Adequacy. "When a concrete acceptance strength test result falls more than 500 psi below the specified minimum strength, furnish either a structural analysis performed by the Specialty Engineer to establish strength adequacy or obtain drilled core samples as specified in 346-10.3." Suggest adding "as determined by the Engineer." As written the section seems to let the contractor decide whether to core or do an analysis. Later in the spec. it clearly says the Dept. will determine if analysis is needed.

Response: Language added.

346-10.2 Investigation and Determination of Structural Adequacy: Existing second paragraph first sentence is now a repeat of new text in -10.1. Suggest deleting duplication.

Response: No change made, 346-10.1 talks to cylinders, while 346-10.2 talks to cores.

Katie Bettman
904-360-5391
katie.bettman@dot.state.fl.us

Comments: (11-25-15)

I'm not sure how it would work to require concrete delivery tickets to be submitted electronically, but 346-6.3 was not changed to be consistent with all other changes. The concrete for flowable fill in Section 121 was changed from furnish to submit. 346-6.3 Delivery Certification was not changed and states, "Ensure that an electronic delivery ticket is furnished with each batch of concrete before unloading at the placement site. The delivery ticket may be proprietary software or in the form of an electronic spreadsheet, but shall be printed."

Response: Any additional proposed language other than that proposed in the original specification revision, is a change that would require a round of checking with the districts and another round of internal and Industry review. This recommendation will be considered in the next specification update.

No Change made.

Juan Castellanos
FDOT

Comments: (11-23-15 from Internal)

Frequently drilled shaft concreting operations are performed at night. For example very long shafts for bridges. Similarly miscellaneous structure shafts are often performed at night to avoid

impact on traffic. Even in South Florida the temperatures at night in summer fall below 80. Therefore the rule being introduced here would not be representative for these conditions. We would be asking to perform slump test at 85o F when the pouring will be with actual ambient temperatures in the 70s. You may want to consider expand the language to consider this scenario.

Response: The first sentence you referenced, defines the two ambient temperature ranges used for slump loss test and not the actual ambient temperature of the slump loss test. Should the placement take place at 70°F then the slump loss test should take place at the anticipated ambient temperature.

Wendy McLellan (via Deborah Ihsan)
Creative Engineering
561-373-0787

Comments: (12-3-15)

346-10 Investigation of Low Strength Concrete for and Structural Adequacy. 346-10.1 General:... When a concrete acceptance strength test result falls more than 500 psi below the specified minimum strength, furnish either a structural analysis performed by the Specialty Engineer to establish strength adequacy or obtain drilled core samples as specified in 346-10.3 to determine the in-place strength of the LOT of concrete in question,...(Furnish should be Submit in keeping with the other recent revisions.)

Response: Change made

Katie Bettman
904-360-5391
katie.bettman@dot.state.fl.us

Comments: (12-17-15)

346-3.1: Why are we limiting ternary blends to the higher classes of concrete? If allowed, we could combine notes (b) and (g) in Table 2. The following is proposed language: "The Engineer may allow a higher target slump when a Type F, G, I or II admixture is used or when a Ternary Blend is used. Except for flowing concrete, the maximum target slump shall be 7 inches."

Response: Change made

346-10.3: Can non-shrink grouts (Section 934) also be used?

Response: Change made, section 934 added

Chad Rucks (via Deborah Ihsan)
(772) 429-4938
chad.rucks@dot.state.fl.us

Comments: (12-17-15)

1. 3460202 Portland Cement Concrete: • 346-2.2: The sentence after the first paragraph (relocated from the last line in the paragraph prior to Table 1) is not formatted in a way consistent with the rest of the document. Not sure if this sentence is a separate paragraph or should be the last sentence of the first paragraph in this section.

Response: No change made, standalone paragraph for emphasis

2. 346-3.2: Comment similar to the one for Section 346-2.2. The previous paragraph that was 3rd in the original document was relocated to the end of the first paragraph. Is the first sentence part

of the 1st paragraph and the second sentence a standalone paragraph. Formatting is not consistent with the rest of the document.

Response: No change made, standalone paragraph for emphasis

Ron Holcomb
CEMEX Florida Technical Team
239-825-3519

Comments: (12-17-15)

The change of the air content range in 346-3.1 is a welcome change, as is the change to allow water adjustments without an initial slump test.

Response: THANK YOU
