

3460000 PORTLAND CEMENT CONCRETE
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (6-15-18)

With regard to the last sentence in the second paragraph of Section 346-3.1 General it shows Table 2. It appears Table 2 was changed to Table 3. Should this sentence refer instead to Table 3?

Response: This should be Table 3 and has been corrected.
Change made.

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Comments: (6-26-18)

New language in 346-9.4 states "Maintain the hold cylinders until the verification of the compressive strength test results, but no more than one month after the age of the specified strength test". Do we really need to specify a MAXIMUM amount of time that a lab can maintain the cylinders? It would make more sense to specify a MINIMUM amount of time that a lab must maintain the hold cylinders. All we're trying to prevent is labs throwing away hold cylinders early, we can do this by specifying a minimum time. Labs already have incentive to clear out old inventory due to limited storage space. We do not need to create situation for potential violation of the Specification because labs are storing cylinders one month + 1 day after test date.

Response: Agreed.
Action: Sentence has been modified to address the comment.

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Comments: (6-29-18)

1. Target slump for Class VI may need to be more flexible when Type F,G, I or II admixture is used because the 10,000 psi strength mix with overdesign strength will be very viscous and will be hard to control slump in low range. Therefore, it will be better if mix designer can request a target slump and FDOT will verify with all the test results for approval. e.g.) 9 in. target slump could be practical for that type of concrete because a minimum of 9" slump will be required to pump viscous high strength concrete.

Response: The Class VII 10,000 psi concrete is typically used in precast/prestress operations, which gives them the ability to use flowing and SCC. With high range, the target for extended

slump is up to 7 inches. If specific project requirements require a more fluid mix, a Modified Special Provision could be used. For our standard specifications, the 7 inch target shouldn't be exceeded.

Action: No change is needed in the current proposed specification.

2. What mixes could be classified as slip-form mix, e.g. CL I slip-form, CL I slip-form paving, CL II 3400 slip-form, CL II 4500 Bridge deck slip-form, CL IV 5500 slip-form.

Response: There are not restrictions regarding the class of concrete.

Action: No change is needed in the current proposed specification.

3. 346-3.4 Flowing Concrete for Precast/Prestressed Concrete: Does this Section apply only to Precast/Prestressed Concrete or can we use 9" slump target for Cast-in-place application as well?

Response: Yes, this subarticle only applies to flowing concrete for precast/prestress concrete. For cast-in-place concrete a Modified Special Provision is needed.

Action: No change is needed in the current proposed specification.

4. 346-7.2.1 Transit Time: "For critical placement, the transit time may be extended to the allowable mixing time shown in the mix design" => It is clear to me that we have maximum 90 minutes of maximum transit time. What does it mean by "be extended to the allowable mixing time" => Are allowable mixing time and allowable transit time different?

Response: Agreed. Yes, the allowable mixing time and allowable transit time are different.

Action: The proposed sentence was reworded.

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Comments: (7-2-18)

1. 346-2.2 - Paragraph 3: "Use only the types of cements designed ..." should not it be "cementitious" in lieu of cement?

Response: Table 1 is specific to the type of cement, cementitious materials are not included in Table 1.

Action: No change is needed in the current proposed specification.

2. 346 TABLE 1 - shouldn't the title be "Cementitious Use by Environmental Classification"?

Response: Table 1 is specific to the type of cement, cementitious materials are not included in Table 1.

Action: No change is needed in the current proposed specification.

3. 346 TABLE 2 - shouldn't notes (2) & (3) read "Anticipated Concrete Core Temperature ..."?

The actual temperature would not be know until placement and after mixture proportioning.

Response: Agreed.

Action: The foot note was reworded.

4. 346-3.1 - End of paragraph 2: The Table referenced should be 3 and not 2.

Response: This has been corrected.
