

## ORIGINATION FORM

### THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

(The person who receives or originates the issue and needs to forward the issue for action.)

Modify Specification \_\_\_\_\_346  
Section/File number

New Section \_\_\_\_\_.  
Section number

**Subject:** Definitions

**Origination date:** 9-20-05

**Originator:** Robert Robertson

**Office/Phone:** 414-4267

**Email address/** robert.robertson @dot.state.fl.us

**Userid:**

**Problem statement:** Rabbit trail as a result of changes to Section 001 – Definitions

**Information source:** Duane Brautigam Specifications Office, Robert Robertson  
Structures Office, Mayur Patel Materials Office and Bob Greer  
Office of Design

**Background data:**

**Recommended**

**Usage Note:**

**Desired Implementation Date:** Beginning with the July 2006 letting.



Florida Department of Transportation

JEB BUSH  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.  
SECRETARY

MEMORANDUM

**DATE:** September 28, 2005  
**TO:** Specification Review Distribution List  
**FROM:** Duane F. Brautigam, P.E., State Specifications Engineer  
**SUBJECT:** **Proposed Specifications Change: 3460010 – Portland Cement Concrete.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Portland Cement Concrete.

This change is one of a group of changes proposed by Robert Robertson of the State Structures Office to split existing Specifications references to Specialty Engineer into a redefined Specialty Engineer and a newly defined term, Contractor’s Engineer of Record.

**Please note, only those references to Specialty Engineer changed to Contractor’s Engineer of Record are being processed for review. Other existing Specialty Engineer references in the Specifications are meant to work with the new definition.**

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after October 26, 2005 may not be considered. Your input is encouraged.

DFB/jho

Attachment

COMMENTS:

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Submitted by:

Phone #:

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**PORTLAND CEMENT CONCRETE.****(REV 9-21-05)**

SUBARTICLES 346-10.1 and 346-10.2 (of the Supplemental Specifications) are deleted and the following substituted:

**346-10.1 General:** When a concrete acceptance strength test result falls more than 10% or 500 psi [3.5 MPa] below the specified minimum strength, whichever is the greater deviation from the specified minimum strength, and the Department determines that an investigation is necessary, make an investigation into the structural adequacy of the LOT of concrete represented by that acceptance strength test result at no additional expense to the Department. The Engineer may also require the Contractor to perform additional strength testing as necessary to determine structural adequacy of the concrete.

Furnish either a structural analysis performed by ~~athe Specialty Engineer~~ *Contractor's Engineer of Record* to establish strength adequacy or drilled core samples as specified in 346-10.3 to determine the in-place strength of the LOT of concrete in question at no additional expense to the Department. Obtain the Engineers approval before taking any core samples. When the concrete is deemed to have low strength, obtain and test the cores and report the data to the Engineer within 14 days of the 28 day compressive strength tests. Core strength test results obtained from the structure will be accepted by both the Contractor and the Department as the in-place strength of the LOT of concrete in question. The core strength test results will be final and used in lieu of the cylinder strength test results for determination of structural adequacy and any pay adjustment. The Department will calculate the strength value to be the average of the compressive strengths of the three individual cores. This will be accepted as the actual measured value.

**346-10.2 Determination of Structural Adequacy:** If core strength test results are less than 500 psi [3.5 MPa] or 10%, whichever is greater, below the specified minimum strength, consider the concrete represented by the cores structurally adequate. If the core strength test results are more than 10% or 500 psi [3.5 MPa], whichever is greater, below the specified minimum strength, the Department will consider the concrete represented by the cores structurally questionable. Submit a structural analysis performed by ~~athe Specialty Engineer~~ *Contractor's Engineer of Record*. If the results of the structural analysis, approved by the Department, indicates adequate strength to serve its intended purpose with adequate durability, the Contractor may leave the concrete in place subject to the requirements of 346-11, otherwise, remove and replace the LOT of concrete in question at no additional expense to the Department.