



# Florida Department of Transportation

JEB BUSH  
GOVERNOR

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JOSÉ ABREU  
SECRETARY

June 23, 2004

**\*\*Expired\*\***

REV. MEMORANDUM NO.: 10-04  
MATERIALS BULLETIN NO.: 03-04

Expiration Date: 6-30-05

Expires: September 30, 2004  
(F.A. 6/1/04)

New Expiration Date: 12-31-05

**TO: DISTRICT CONSTRUCTION ENGINEERS  
DISTRICT MATERIALS ENGINEERS**

**FROM:** Ananth Prasad, Director, Office of Construction  
Thomas O. Malerk, Director, State Materials Office

**COPIES:** Bob Burluson (FTBA), Don Davis (FHWA), Mike Bergin, Steve Plotkin

**SUBJECT: CLASS I NON-STRUCTURAL CONCRETE – MINIMUM  
CEMENTITIOUS MATERIAL CONTENT AND MAXIMUM  
WATER TO CEMENTITIOUS MATERIALS RATIO**

As you are aware, contractors and producers of concrete products are experiencing cement shortages. This means that cement is being rationed for many of the users which in turn is slowing production of certain cast-in-place concrete members as well as precast products. In an effort to reduce the impact of the cement shortage, please process a \$0.00 Specification Change for active contracts for Class I Non-Structural Concrete. This change goes into effect on the date of this memorandum and will be in effect through September 30, 2004 after which it will no longer be in effect unless an extension is issued.

Subarticle 347-2.3 allows substitution of approved material sources. These approved sources include cement.

Specification 347-4.1 is changed as follows:

*347-4.1 Concrete Mix Design: Before producing any concrete, submit the proposed mix design to the Engineer on a form provided by the Department. Use only concrete mix designs meeting the following requirements and having prior approval of the Engineer.*

<i>Minimum 28-Day Compressive Strength</i>	<i>2,500 psi [17 MPa]</i>
<i>Minimum Cementitious Materials Content</i>	<i>400 lbs/yd<sup>3</sup> [238 kg/m<sup>3</sup>]</i>
<i>Slump</i>	<i>0 to 6 inch [0 to 150 mm]</i>

*Materials may be adjusted provided that the theoretical yield requirement of the approved mix design is met. Show all required original approved design mix data and batch adjustments and substituted material on the Department concrete delivery ticket. The Engineer may disqualify any concrete production facility for non-compliance with Specification requirements.*

**347-4.2 Sampling and Testing:** *Prepare 3 – 6x12 cylinders for 28 day compressive strength testing during the initial concrete placement. From the same load of concrete, the Contractor may prepare an additional 3 – 6x12 cylinders for early compressive strength testing at 7 days. Provide the 28 day compressive strength data to the Engineer. As an alternative to preparing and testing cylinders, supply the Department with historical data indicating that the mix has met the required minimum compressive strength at 28 days.*

*The Engineer may sample and test the concrete at his discretion to verify its quality.*

This memorandum serves as a blanket approval to process a specification change and should be attached to the Field Supplement Agreement/Work or the supplemental Agreement.

If you have further questions, please feel free to contact Steve Plotkin at 850-414-4155 (sc 994-4155) or Mike Bergin at 352-955-6666 (sc 625-6666).

PM/bpw