

## 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 \_\_\_\_\_ 901\_\_\_\_\_.  
Section/File number

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

**Subject:** Coarse Aggregate – Lightweight Aggregates/Reclaimed Portland Cement Concrete

**Origination date:** March 7, 2005

**Originator:** Michael Bergin

**Office/Phone:** State Material Office 352-955-6666

**Email address/** michael.bergin@dot.state.fl.us

**Userid:**

**Problem statement:** Make clarification in Subsection 901-4.2 to allow AASHTO M195 to be followed for grading light weight aggregate. In addition, allow other sources of reclaimed Portland cement concrete to be used because we are allowing its use in non-structural applications.

**Information source:** District Concrete Technologists and State Materials Office Engineers

**Background data:** The AASHTO M-195 is more in line with typical gradations for light weight aggregate. Reclaimed Portland cement concrete may come from other sources than just pavement.

**Recommended** Clarify the Departments gradation requirements for light weight aggregate. Allow the use of other sources of reclaimed concrete for use in non-structural concrete.

**Usage Note:** All jobs.

**Desired implementation date:**

Beginning with the January 2006 letting.



# Florida Department of Transportation

JEB BUSH  
GOVERNOR

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JOSÉ ABREU  
SECRETARY

## MEMORANDUM

**DATE:** May 9, 2005  
**TO:** Specification Review Distribution List  
**FROM:** Duane F. Brautigam, P.E., State Specifications Engineer  
**SUBJECT:** **Proposed Specifications Change: 9010402-Coarse Aggregate**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Coarse Aggregate.

This change was proposed by Michael Bergin of the State Materials Office to specify AASHTO gradation requirements and to include nonstructural concrete applications.

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 June 6, 2005 may not be considered. Your input is encouraged.

DFB/sh

Attachment

COMMENTS:

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Submitted by:

Phone #:

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**COARSE AGGREGATES.**  
**(REV 4-25-05)**

SUBARTICLE 901-4.2 (Page 774) is deleted and the following substituted:

**901-4.2 Lightweight Coarse Aggregate for Structural Concrete:** The requirements of 901-4.1 are modified as follows:

Aggregates shall not be produced from pumice and scoria.

Los Angeles Abrasion (FM 1-T 096, Section 12) shall be 45%, maximum.

*Gradation shall meet the requirements of AASHTO M195 for 3/4 inch [19.0 mm] Nominal Size Destination.*

ARTICLE 901-5 (Page 774) is deleted and the following substituted:

**901-5 Reclaimed Portland Cement Concrete ~~Pavement~~.**

The reclaimed portland cement concrete ~~pavement~~ shall be from a source which was produced and placed in accordance with applicable Specifications. *This material may be used as the coarse aggregate in Nonstructural Concrete applications.* The material shall be crushed and processed to provide a clean, hard, durable aggregate having a uniform gradation free from adherent coatings, metals, organic matter, base material, joint fillers, and bituminous materials.

The Contractor's (Producer's) crushing operation shall produce an aggregate meeting the applicable gradation requirements. The physical property requirements of 901-1.3 for Soundness shall not apply and the maximum loss as determined by the Los Angeles Abrasion (FM 1-T 096) is changed to 50.

The sources of reclaimed portland cement concrete ~~pavement~~ will be treated as a mine and subject to the requirement of Section 6.

