



## Florida Department of Transportation

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SECRETARY

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**MATERIALS BULLETIN NO. 15-13**

**DCE MEMORANDUM NO. 25-13**

*(FHWA Approved: 12/4/2013)*

**TO:** DISTRICT MATERIALS AND RESEARCH ENGINEERS  
DISTRICT CONSTRUCTION ENGINEERS

**FROM:** Timothy J. Ruelke, P.E., Director, Office of Materials  
David A. Sadler, P.E., Director, Office of Construction

**COPIES:** Tom Byron, Rudy Powell, Bob Burleson, Nick Finch, Chad Thompson, Caitlin Alcorn, Rafiq Darji, John Shoucair

**SUBJECT:** SPECIFICATION CHANGE FOR RIPRAP, RUBBLE (BANK AND SHORE)  
530-2.2.1

The 2014 Standard Specifications include a major revision to Section 530-2.2.1 that reduces the minimum bulk specific gravity from 2.30 to 2.20, and reduces the weight distributions of the stones. The changes are predicated by design revisions to the July 2013 Drainage Manual, which require that three design parameters not be exceeded: flow velocities, 7.7 ft/sec; Froude numbers, 0.80; and wave heights, 2.4 ft.

In order to apply the 2014 Specifications, the Engineer of Record (EOR) must review and provide documentation that riprap designs before July 2013, meet the new conditions of the revised Drainage Manual, and are thus eligible to use the January Specification, Section 530. The State Drainage Engineer or his designee shall approve the EOR's submittals.

This memorandum serves as a blanket approval to process this change if requested by a contractor at no cost to the Department and should be attached to the Work Order or Supplemental Agreement.

Should you have any questions concerning this matter, please contact John Shoucair (352) 955-2925 at the State Materials Office.

TR/js