

## 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.)

**Specification:** 460-7.6

**Subject:** Tightening of Anchor Bolt/Rod Nuts:

**Origination date:** March 26, 2010

**Originator:** Rodney Chamberlain

**Office/Phone:**

**Problem statement:** A brief statement of the perceived problem that we are trying to solve (including data that quantifies the magnitude of the problem when possible)

**Proposed solution:** Include identification of documents that would provide direction on implementing the change. Benefit/cost analysis where appropriate. Also include impacts to those affected by the implementation such as cost, impact to project schedules, supplemental agreements, etc.

**Information source:** Any contacts through industry, or Department staff who may have information, or who provided information on the issue.

**Recommended Usage Note:**

**Estimated fiscal impact, if implemented:**

**Implementation of these changes, if and when approved, will begin with the January 2011 letting.**



## *Florida Department of Transportation*

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GOVERNOR

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STEPHANIE KOPELOUSOS  
SECRETARY

### MEMORANDUM

**DATE:** April 13, 2010

**TO:** Specification Review Distribution List

**FROM:** Rudy Powell, Jr., P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: 4600706 Structural Steel And Miscellaneous Metals – Tightening of Anchor Rod Nut.

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

This change was proposed by Rodney Chamberlain to address the different anchor bolt (rod) installation requirements for pot bearings versus bearing pads and to make the spec requirement consistent with the anchor bolt / bearing pad detail from the Structures Detailing Manual.

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 ST986RP or rudy.powell@dot.state.fl.us. Comments received after **May 11, 2010** may not be considered. Your input is encouraged.

RP/cah  
Attachment

**STRUCTURAL STEEL AND MISCELLANEOUS METALS**  
**(REV 34-2613-10)**

SUBARTICLE 460-7.6 (Page 624) is deleted and the following substituted:

**460-7.6 Tightening of Anchor *Bolt*/Rod Nuts:**

**460-7.6.1 Fixed *and Expansion Pot* Bearings:** Tighten anchor nuts *or bolts* to a 'snug tight' condition such that the different mating surfaces (such as the top of concrete, neoprene and steel) are in firm contact. The nut *or bolt* is to be tight enough to develop friction between surfaces to prevent sliding, but not over-tightened that bulging or damage occurs in any of the mating materials.

**460-7.6.2 *Fixed and Expansion Bearings with Elastomeric Bearing Pads*:** Draw down the *lower* nut such that a total gap of 1/2~~16~~ inch exists between the ~~washer and nut and washer~~ and bearing *plates* surface. Tighten a second nut of the same specification to a snug tight condition against the ~~first~~ *lower* nut maintaining the required gap.