

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Specification: 400-11.3 and 450-12.4

Subject: Beam and Deck Slab Units (400-11.3); Bearing Areas (450-12.4)

Origination date: 4-12-10

Originator: Steve Plotkin

Office/Phone: (904) 360-5501

Problem statement: 400-11.3: This sub-article once applied to precast or prestressed beams and deck slab units and so this sub-article was placed in spec 400 since 400 covers more than prestressed concrete which is section 450. However, the Department no longer uses precast beams or deck slab units and only uses prestressed beams and deck slab units which means that this sub-article is now in the wrong spec section.

450-12.4: This sub-article refers to 400-11.3 for bearing area tolerance issues; however, since 400-11.3 needs to be moved to spec 450 it should be incorporated into 450-12.4.

Proposed solution: 400-11.3: Move sub-article 400-11.3 to sub-article 450-12.4

450-12.4: Incorporate 400-11.3 into 400-12.4

Information source: Steven Plotkin, Ghulam Mujtaba

Recommended Usage Note: Apply this specification revision to all projects as a standard specification

Estimated fiscal impact, if implemented: None

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



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: May 19, 2010
TO: Specification Review Distribution List
FROM: Rudy Powell, Jr., P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4001103 Concrete Structures.**

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

This change was proposed by Steve Plotkin of the State Construction Office. The Department no longer uses mild reinforced, precast beams or deck slab units so this language will be moved to Section 450 Precast Prestressed Concrete Construction.

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 **June 16, 2010**, may not be considered. Your input is encouraged.

RP/dt
Attachment

CONCRETE STRUCTURES.

(REV 4-12-10)

SUBSECTION 400-11.3 (Page 394) is deleted.

~~**400-11.3 Beam and Deck Slab Units:** Do not allow the bearing plate or bearing area plane of precast concrete beam and deck slab units, including prestressed units, to deviate from a true plane by more than 1/8 inch when both bearing areas of a unit are tested on a level plane. Provide a bearing plate or bearing area that also proves to be a true plane when tested in all directions of the plane surface with a steel straightedge. In the event that a 100% true plane is not achieved, the Engineer will accept a surface having not less than 80% of its area in a true plane provided the deviations from such true plane are evenly distributed. Remove minor convex projections by grinding with an abrasive stone. The Engineer will accept minor depressions, provided that they amount to not more than 20% of the bearing area, are evenly distributed over the entire bearing area, and are not deeper than 1/8 inch.~~

SUBSECTION 400-11.4 (Page 394) is the deleted and the following substituted:

400-11.34 Bearing Pads: Use bearing pads for seating bridge shoes, ends of beams, and slabs of the types specified or required in the plans.

Furnish and install Composite Neoprene Pads as detailed in the plans. Place neoprene pads, where specified or required, directly on masonry surfaces finished in accordance with the requirements of this Article. Ensure that pads, bearing areas of bridge seats, and metal bearing plates are thoroughly cleaned and free from oil, grease, and other foreign materials.

Exercise care in fabrication of related metal parts to avoid producing conditions detrimental to the performance of the pads, such as uneven bearing, excessive bulging, etc.