

ORIGNATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Specification: SECTION 410

Subject: 410 Precast Concrete Box Culvert.

Origination date: September 20, 2011

Originator: Andre Pavlov

Office/Phone: 850-414-4293

Problem statement:

Weep holes in box culverts are not always required by design; however the FDOT Specifications currently requires weep hole in all box culverts.

Proposed solution:

Revise the Specifications to require weep holes in box culverts only when shown in the plans and clarify weep hole grating and backfill requirements.

Information source: Structures Design Office, District Structures Design Engineers

Recommended Usage Note:

Estimated fiscal impact, if implemented: None

Implementation of these changes, if and when approved, will begin with July 2012 lettings.

For State Specifications Office Use Only

Begin date:

File Number:

Scheduled completion date:

Implementation date:

Implementation team member:

Usage Note:

Notes:



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ANANTH PRASAD, P.E.
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M E M O R A N D U M

DATE: October 12, 2011

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: **4100601 Precast Concrete Box Culvert.**

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

This change was proposed by Andre Pavlov of the State Structures Design Office to revise the specification to require weep holes in box culverts only when shown in the plans and to clarify weep hole grating and backfill requirements.

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 SP965RP or rudy.powell@dot.state.fl.us. Comments received after **November 9, 2011** may not be considered. Your input is encouraged.

RP/cah
Attachment

PRECAST CONCRETE BOX CULVERT.

(REV ~~6-8-10~~~~9-22-11~~)-(FA ~~7-29-10~~)-(1-11)

SUBARTICLE 410-6.1 (of the Supplemental Specification) is deleted and the following substituted:

410-6.1 Casting: Cast precast elements in unyielding beds and forms. Ensure bearing surfaces in casting forms are level and straight, and vertical surfaces are plumb prior to casting. Ensure surfaces within the forms against which concrete will be cast, are clean and free from rust and hardened residual concrete. Provide full concrete cover clearance to all form wires and other miscellaneous pieces of metal, except as permitted by Section 415. Bend all tie wires away from the form surface to provide maximum concrete cover. Provide inserts and lifting devices in accordance with 450-9.2.1. *When weep holes are shown in the Plans, provide 3 inch minimum diameter holes, symmetrically, one on each side per section, and 6 inches above the interior floor slab.*

ARTICLE 410-10 (Pages 421 – 422) is expanded by the following new Subarticle:

410-10.6 Underdrain and Weep Holes: *Provide a continuous underdrain in accordance with Design Standard Index No. 289. When weep holes are provided, cover the exterior opening of all weep holes with galvanized wire mesh and a minimum of 2 cubic feet of clean broken stone or gravel wrapped in Type D 3 filter fabric, to allow free drainage but prevent the fill from washing through.*