

## 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 \_\_\_\_\_555\_\_\_\_\_.  
Section/File number

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

**Subject:** Directional Bore-Testing Methods

**Origination date:** March 7, 2005

**Originator:** Jerome D. Taylor

**Office/Phone:** State Drainage Office/414-4355

**Email address/** Jerome.taylor@dot.state.fl.us

**Userid:**

**Problem statement:** Requirement for Cross Drain and Storm Drain, soil tight pipe joints to be water tight to 2 psi [13.8 kPa], needs to be changed to 5 psi [34.5 KPa]. (Rabbit Trail fix for Section 430 Change)

**Information source:** State Drainage Engineer and Department staff recommends this change.

**Background data:** When joints are water tight to 5 psi, chances of trench backfill infiltration would be nonesuch.

**Recommended**

**Usage Note:** 555-1;2555-1.

**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:** April 4, 2005  
**TO:** Specification Review Distribution List  
**FROM:** Duane F. Brautigam, P.E., State Specifications Engineer  
**SUBJECT:** **Proposed Specifications Change: 5550412 - Directional Bore-Testing Methods**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Section 555

This change was proposed by Jerome Taylor of the State Drainage Office to update this Section due to a modification of Section 430.

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 May 2, 2005 may not be considered. Your input is encouraged.

DFB/jf

Attachment

COMMENTS:

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Submitted by:

Phone #:

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**DIRECTIONAL BORE-TESTING METHODS.  
(REV 3-25-05)**

SUBARTICLE 555-4.1.2 (Page 630) is deleted and the following substituted:

**555-4.1.2 Testing Methods:** Testing may consist of one of the following methods and must always meet or exceed the Department's testing requirements:

(a) Follow the product manufacturer's pressure testing recommendations.  
(b) Ensure that product carrier pipes installed without a casing meet the pressure requirements set by the owner. If the owner does not require pressure testing, the Engineer may require at least one test.

(c) A water tight pipe and joint configuration where the product is installed beneath any pavement (including sidewalk) and front shoulders is required. The Engineer will determine when and where water tight joint requirements will be applied to the ultimate roadway section for future widening. When a product is located elsewhere, the pipe and joint configuration must meet or exceed soil tight joint requirements, *as specified in 430-4*. ~~Conduct tests for joint integrity for one hour. The test for a soil tight joint allows up to 0.1 gallon [0.4 liter] of water leakage at a sustained pressure of 2 PSI [13.79 kPa]. The water tight joint criteria allows no leakage at all for a sustained pressure of 5 PSI [34.47 kPa].~~