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 _____556_____.

Section/File number

☐ New Section _____.

Section number

Subject: Jack and Bore-Testing Methods

Origination date: March 7, 2005

Originator: Jerome D. Taylor
Office/Phone: State Drainage Office/414-4355
Email address/ Userid: Jerome.taylor@dot.state.fl.us
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: 556-1;2556-1.

Desired implementation date: Beginning with the January 2006 letting.

Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

M E M O R A N D U M

DATE: April 4, 2005

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: **Proposed Specifications Change: 5560432 - Jack and Bore-Testing Methods**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Section 556

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:

Submitted by: Phone #:

JACK AND BORE-TESTING METHODS.
(REV 3-25-05)

SUBARTICLE 556-4.3.2 (Pages 641 and 642) is deleted and the following substituted:

556-4.3.2 Testing Methods: Testing may consist of one of he following methods but must always meet or exceed Department testing requirements.

(a) Follow the Product Manufacturer's pressure testing recommendations.

(b) Ensure that the 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.

1. The Department requires a water tight pipe and joint configuration where the product is installed beneath any pavement (including sidewalk) and front shoulders. The Engineer will determine when and where water tight joint requirements shall be applied to the ultimate roadway section for future widening. When under the pavement conduct an air pressure test for leaks in the presence of the Engineer at a minimum test pressure of 20 PSI [137.90 kPa] by either of the following methods.

i. Standard 24 hour pressure test with a recording chart or,

ii. A dragnet type leak detector or equivalent device capable of detecting pressure drops of 1/2 PSI [3.45 kPa] for a time period recommended by the manufacturer.

2. When a product is not located under the pavement, the pipe and joint configuration must meet or exceed soil tight joint requirements*, as specified in 430-4*. ~~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 pressures of 5 PSI [34.47 kPa]. Conduct test for joint integrity for one hour.~~