ORIGINATION FORM
Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date: 4/14/2020

Office: Design

Originator: Tim Holley

Specification Section: 443

Telephone: 850-414-4117

Article/Subarticle: 2.1

email: Tim.Holley@dot.state.fl.us

****Will the proposed revision require changes to:**

Publication	Yes	No	Office Staff Contacted and date contacted
Standard Plans Index	○	◉	Rick Jenkins/Cheryl Hudson
Traffic Engineering Manual	○	◉	Javier Ponce 5/7/20
FDOT Design Manual	○	◉	Bobby Bull 4/30/20
Construction Project Administration Manual	○	◉	Scott Arnold 5/4/20
Basis of Estimate/Pay Items	○	◉	Melissa Hollis 5/5/20
Structures Design Guidelines	○	◉	Ben Goldsberry 4/30/20
Approved Product List	○	◉	Karen Byram 5/7/20
Materials Manual	○	◉	Chase Knight 4/15/20

**This section must be completed prior to processing proposed revisions.

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction Bulletin** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Are all references to external publications current? **Yes** ◉ **No** ○

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

The Specifications referenced for plastic pipes include references to AASHTO documents that specify perforations. Currently, the plastic pipe cross reference requirements for aluminum pipes. Removal of the cross reference should reduce confusion between pipe material types.

Summary of the changes:

Deleted "Space the perforations and meet the requirements as specified in (2) above for HDPE, PVC, and PP pipe. Added "Perforated" to the pipe material title to clarify that perforated pipe is required.

Are these changes applicable to all Department jobs? **Yes** ◉ **No** ○

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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M E M O R A N D U M

DATE: May 7, 2020

TO: Specification Review Distribution List

FROM: Daniel Strickland, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **4430201 French Drains.**

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

This change was proposed by Tim Holley from the Office of Design to clarify the language between pipe material types.

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 online at http://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx . Comments received after **June 4, 2020**, may not be considered. Your input is encouraged.

DS/rf

Attachment

FRENCH DRAINS.
(REV 2-28-20)

SUBARTICLE 443-2.1 is deleted and the following substituted:

443-2.1 Pipe: Unless a particular type is specified in the Plans, pipe furnished may be any of the following types:

1. Concrete Pipe (Bell & Spigot): Slotted or perforated concrete pipe may be used. Meet the requirements of Section 449 for concrete pipe. Do not use gaskets. Fully insert the spigot in the bell, and bring home. Conform to Standard Plans, Index 443-001 for slotted pipe. Use perforated pipe having perforations equally located 360 degrees around the pipe. Use pipe having not less than 30 round perforations, 3/8 inch each, per square foot of inside pipe surface. Extend perforations to within 6 inches of the bell or spigot area. The Engineer will permit other perforations not less than 5/16 inch nor more than 3/8 inch in the least dimension if they provide an opening area not less than 3.31 in^2/ft^2 of pipe surface.

2. Corrugated Aluminum Alloy Culvert Perforated Pipe: Meet the requirements of Section 945. Use perforated pipe having perforations equally located 360 degrees around the pipe. Locate perforations either on the inside crests or on the neutral axis of all corrugations except that perforations are not required within 4 inches of each end of each length of pipe or in a corrugation where seams are located.

Provide pipe having not less than 30 round perforations, 3/8 inch each, per square foot of pipe surface. The Engineer will permit other perforations not less than 5/16 inch nor more than 3/8 inch in the least dimension if they provide an opening area not less than 3.31 in^2/ft^2 of pipe surface.

3. Corrugated Steel Perforated Pipe: Meet the requirements of Section 943. Space the perforations and meet the requirements as specified in (2) above.

4. Bituminous Coated Corrugated Steel Perforated Pipe: Meet the requirements of Section 943. Space the perforations and meet the requirements as specified in (2) above. Place the perforations prior to the bituminous coating. The Engineer will accept the minimum opening of not less than 3.31 in^2/ft^2 of pipe if 50% of the opening area is maintained after coating.

5. Corrugated High-Density Polyethylene (HDPE) Perforated Pipe: Meet the requirements of 948. ~~Space the perforations and meet the requirements as specified in (2) above.~~

6. Polyvinyl Chloride (PVC) Perforated Pipe: Meet the requirements of 948. ~~Space the perforations and meet the requirements as specified in (2) above.~~

7. Corrugated Polypropylene Perforated Pipe: Meet the requirements of Section 948. ~~Space the perforations and meet the requirements as specified in (2) above.~~