## **ORIGINATION FORM**

Proposed Revisions to a Standard Plans Index (Please provide all information – Incomplete forms will be returned)

#### **Contact Information:**

Standard Plans:

Date: September 5, 2017 Originator: **Richard Stepp** Phone: (850) 414-4313 Email: richard.stepp@dot.state.fl.us

# Index Number: **219** Sheet Number (s): 1,2 Index Title: Concrete Barrier Wall Inlet

#### Summary of the changes:

- 1. Update concrete sections and reinforcing steel for new Single-Slope Barrier. Clarify drawing labels.
- 2. Replace 18" wide Drainage Slot with 3 qty. PVC Pipes to improve concrete and reinforcing steel continuity.
- 3. Remove upstream throat.
- 4. Change Index name to "Curb & Gutter Barrier Inlet" to better describe function with new Concrete Barrier Index

#### Commentary / Background:

This is part of the Index redevelopment project for Single-Slope Concrete Barrier and Pier Protection Barrier.

#### Other Affected Offices / Documents: (Provide name of responsible personnel)

- 🔽 🔲 Other Standard Plans 🛛 Richard Stepp
- 🔲 🗹 FDOT Design Manual –

Yes

No

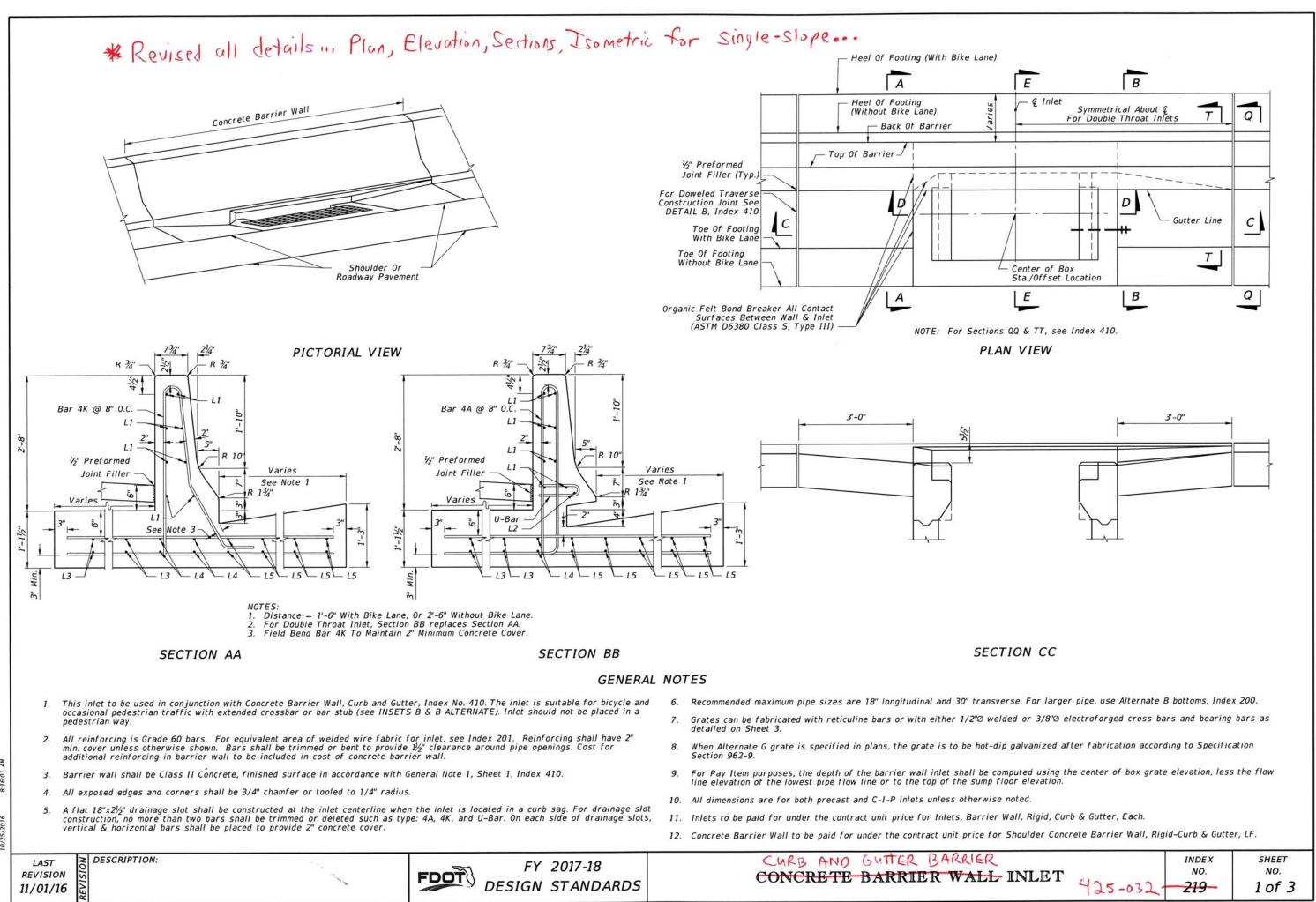
- 🔲 🗹 Basis of Estimates Manual –
- 🔲 🗹 Standard Specifications –
- 🗌 🔽 Approved Product List –
- Construction –
- Maintenance –

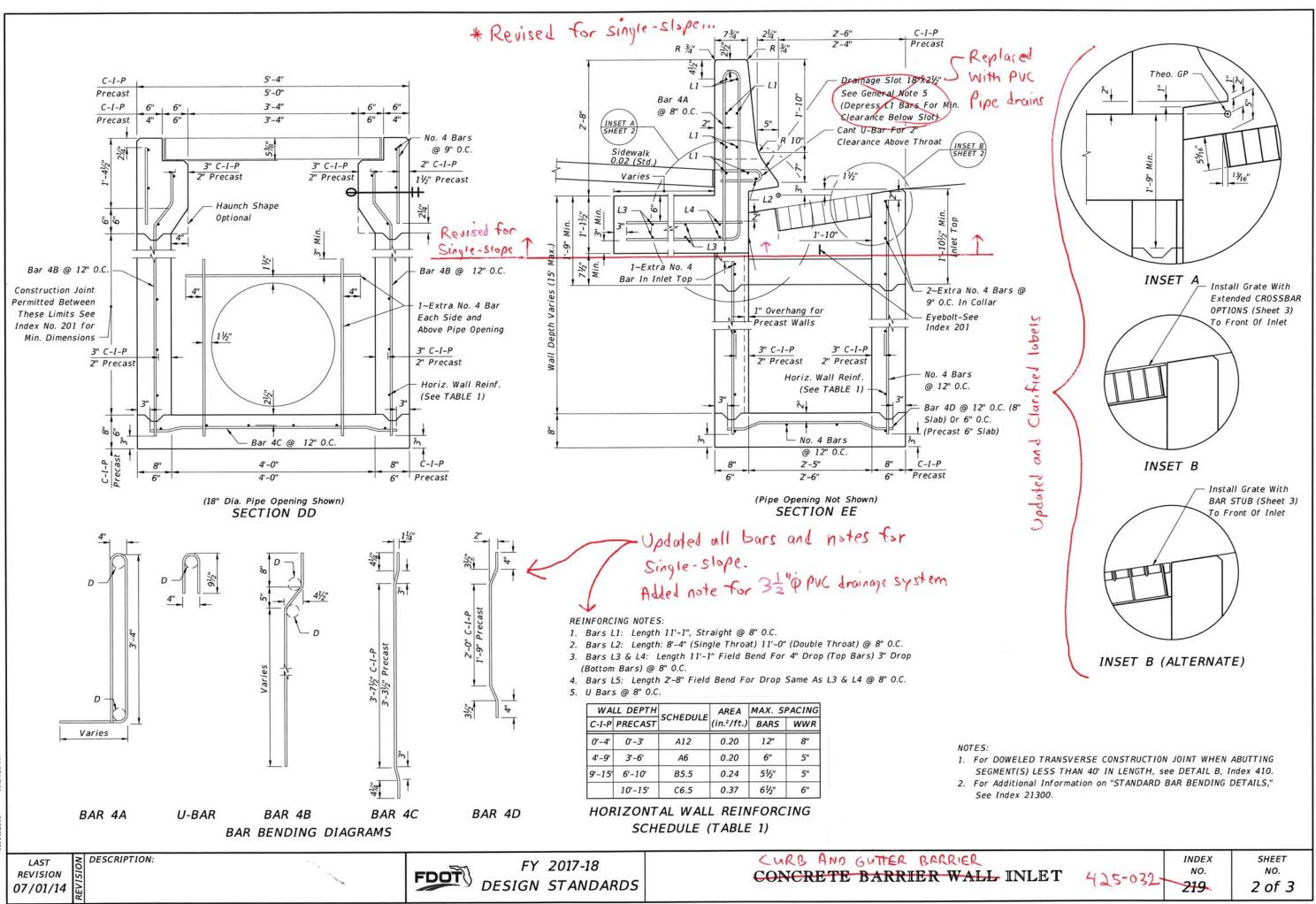
### Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- Yes N/A
  Ves N/A
  Redline Mark-ups
- Proposed Standard Plan Instructions (SPI)
- Revised SPI
- Other Support Documents

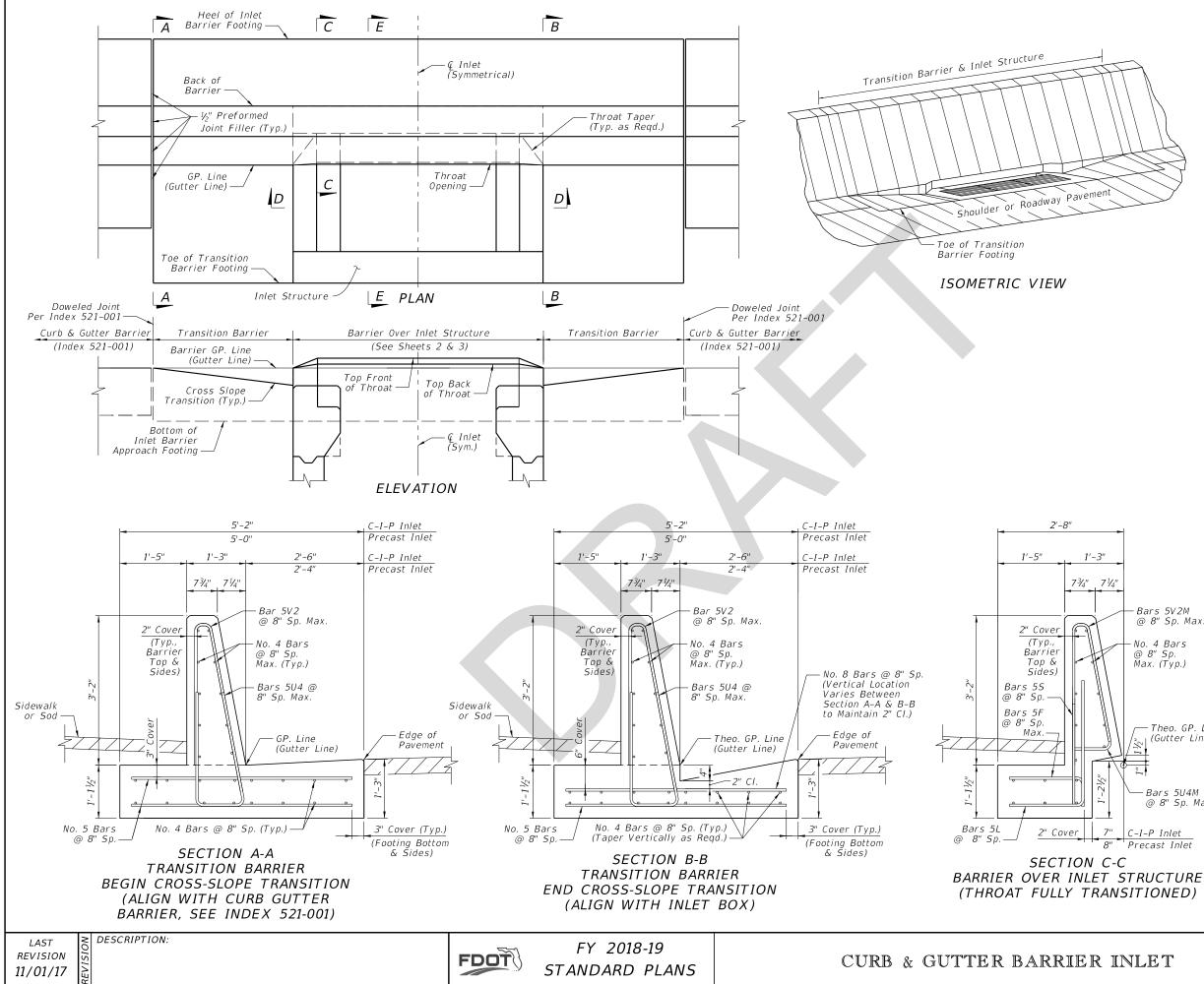
#### Implementation:

Design Bulletin (Interim)	DCE Memo	Program Mgmt. Bulletin	FY-Standard Plans (Next Release)				
Contact the Roadway Design Office for assistance in completing this form							





0/11/2016 10:2



#### GENERAL NOTES:

- 1. Where called for in the plans, use this inlet in conjunction with Curb and Gutter Barrier per Index 521-001 Construct Barrier Segments shown herein in accordance with requirements of Index 521-001, including connections to adjacent barrier segments using the Doweled Joint.
- 2. Reinforcing shown is grade 60 steel bars. For the equivalent area of welded wire reinforcement for the inlet, see Index 425-001. Reinforcing shall have 2" minimum cover unless otherwise shown. Trim or bend bars to provide 11/2" clearance around pipe openings. The cost for additional reinforcing in the barrier is included in the cost of the concrete barrier.

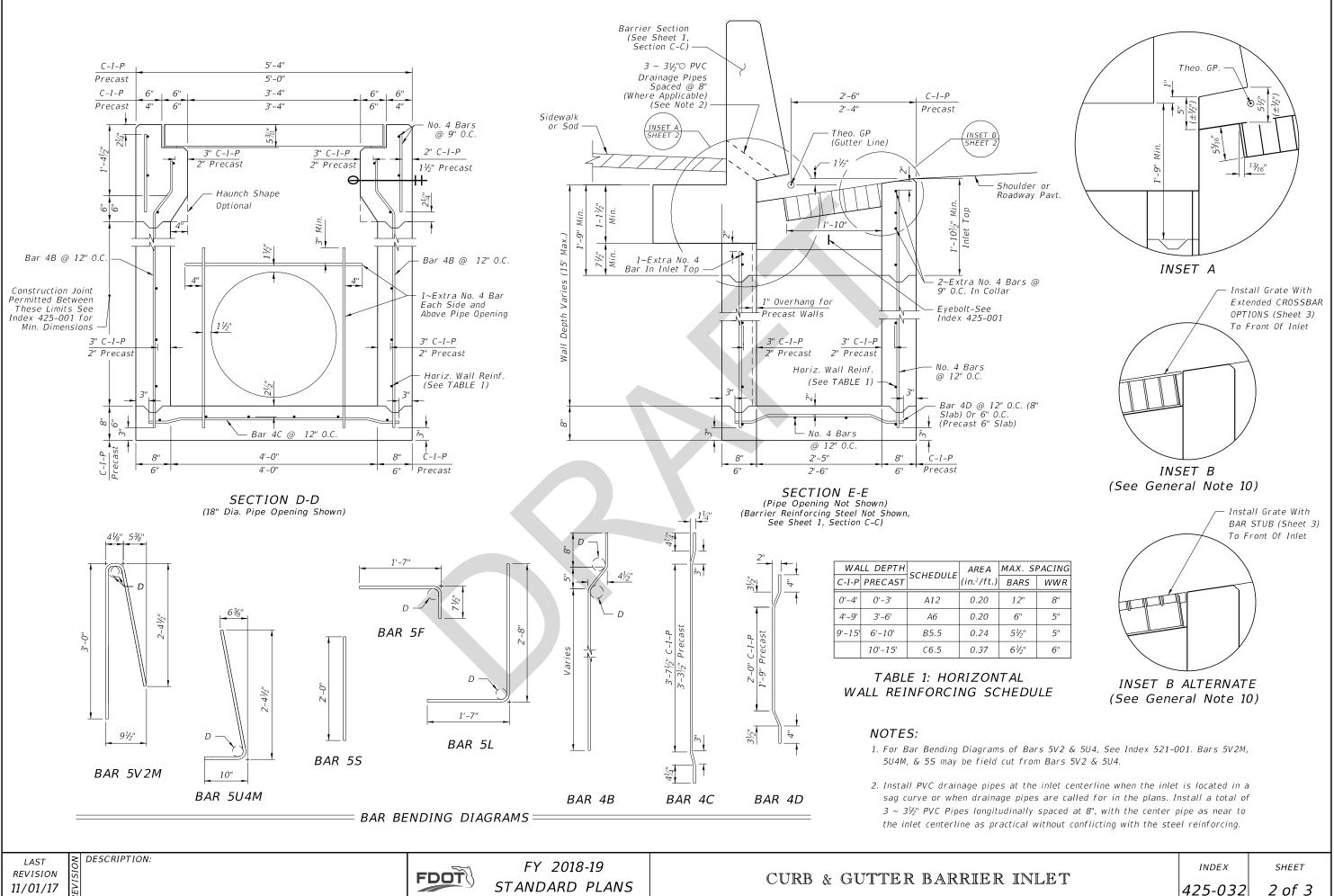
For Bar Bending Details of Bars 5V2 & 5U4, see Index 521-001. For all others, see Sheet 2 & 3.

- 3. All barrier is Class II or IV concrete per Index 521-001.
- 4. Apply a  $\frac{3}{4}$ " chamfer or  $\frac{1}{4}$ " radius to all exposed concrete edges.
- 5. For pipe connections to inlet structure bottoms, the recommended maximum pipe sizes are 18" longitudinal and 30" transverse. For larger pipe, use Alternate B bottoms, Index 425-010.
- 6. Grates may be fabricated with reticuline bars or with either 1/2" welded or  $\frac{3}{8}$ "  $\oslash$  electroforged cross bars and bearing bars as detailed on Sheet 3.
- 7. When Alternate G grate is specified in the plans, the grate is to be hot-dip galvanized after fabrication, in accordance with Specification 962-9.
- 8. For Pay Item purposes, the depth of the barrier inlet shall be computed using the center of box grate elevation, minus either the flow line elevation of the lowest pipe flow line or the top of the sump floor elevation.
- 9. All dimensions are for both precast and cast in place (C-I-P) inlets unless otherwise indicated.
- 10. For inlets placed in areas of bicycle traffic, provide the extended crossbar or bar study (See Insets "B" and "B ALTERNATE")
- 11. Inlets to be paid for under the contract unit price for Inlets, Barrier Rigid, Curb & Gutter, Each.
- 12. Concrete Barrier to be paid for under the contract unit price for Shoulder Concrete Barrier, Rigid-Curb & Gutter,

- Bars 5V2M @ 8" Sp. Max.
- Theo. GP. Line (Gutter Line)
- Bars 5U4M @ 8" Sp. Max.

BARF	RIER	SEC	TIONS	

יזרי יבו זו	INDEX	SHEET
LET	425-032	1 of 3



STANDARD PLANS