#### ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

# (Please provide all information – Incomplete forms will be returned) **Standard Plans: Contact Information:** Date: July 3, 2018 Index Number: 350-001 Originator: Rhonda Taylor Sheet Number (s): 1, 3, and 4 of 4 Index Title: Concrete Pavement Joints Phone: (850) 414-4371 Email: Rhonda.Taylor@dot.state.fl.us **Summary of the changes:** Sheet 1: Changed Note 5. Sheet 3: Deleted Keyed Joint detail from Standard Plans. Sheet 4: Deleted outdated note, and change outside lane standard width to 13 ft. on all illustrations. Provide notes: "Transverse joint spacing should not exceed 15-ft or twenty-four times the slab thickness, whichever is less." "If a lane exceeds 15-ft width, such as single lane ramps and weigh stations, longitudinal joint to be constructed in centerline of lane." Commentary / Background: Sheet 1: Some contractors were confusing the two different types of expansion joints, and substituting the 350-001 expansion joint for the 370-001 bridge approach expansion joint because of this note. Sheet 3:These don't perform well and are problematic to build as well. Any mention of keyed joints in any notes, etc. should also be removed. I'm adding Rich Hewitt as "affected personnel" so he will be aware of this change for t Sheet 4: Outside slab widths are to be 13-ft regardless of shoulder type. Notes provided for clarity. Other Affected Offices / Documents: (Provide name of responsible personnel) Yes No Other Standard Plans – FDOT Design Manual – ■ Basis of Estimates Manual – Standard Specifications – Approved Product List – ☐ Construction — Richard Hewitt ■ Maintenance – Origination Package Includes: (Email or hand deliver package to Derwood Sheppard) Yes N/A Redline Mark-ups Proposed Standard Plan Instructions (SPI) **Revised SPI Other Support Documents**

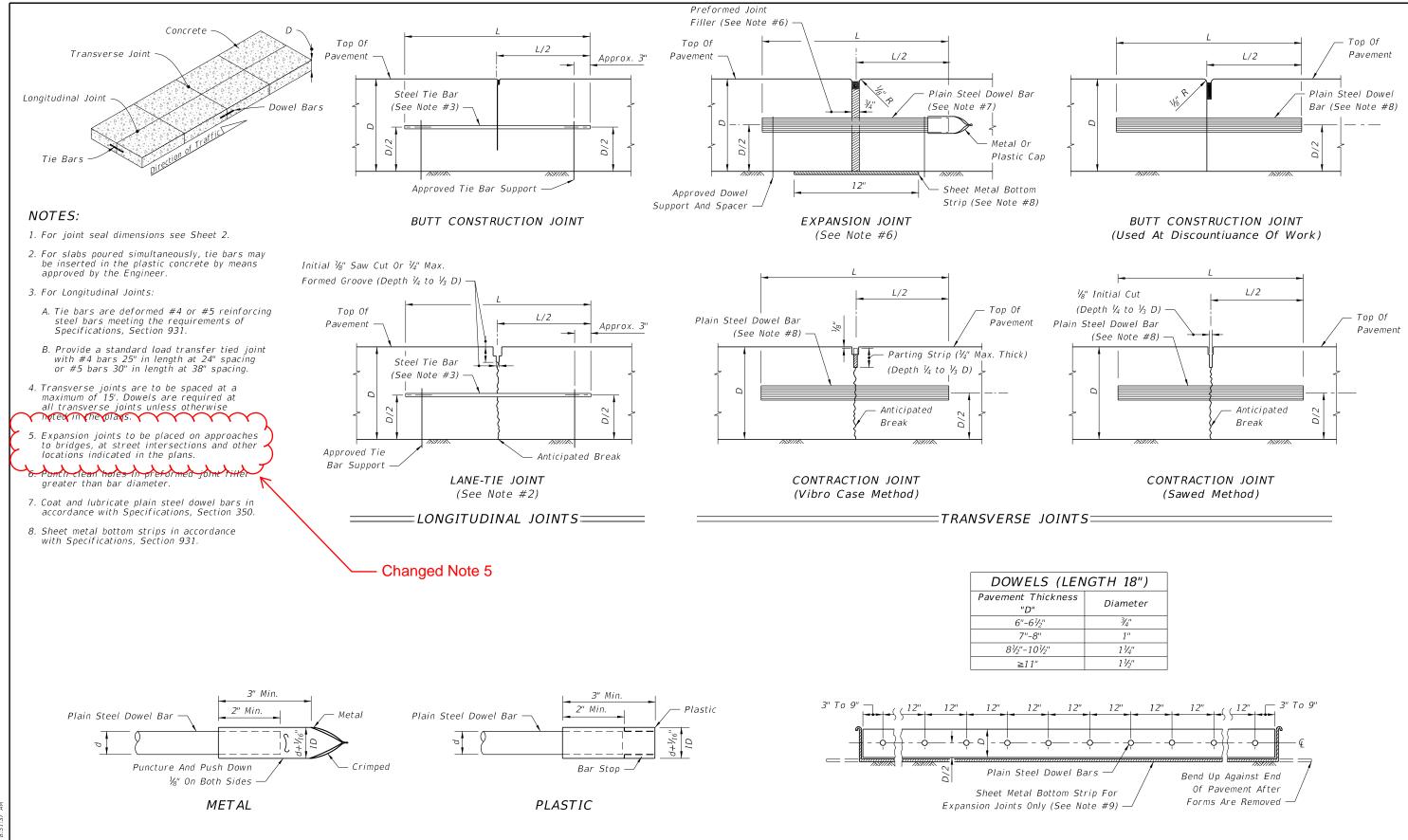
Contact the Roadway Design Office for assistance in completing this form

DCE Memo

Program Mgmt. Bulletin | | FY-Standard Plans (Next Release)

Implementation:

Design Bulletin (Interim)



7100,0101

LAST

REVISION

11/01/17

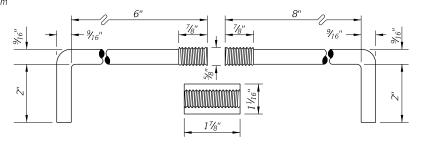
FDOT

DOWEL BARS CAPS

11/01/18

DESCRIPTION:

DOWEL BAR LAYOUT=



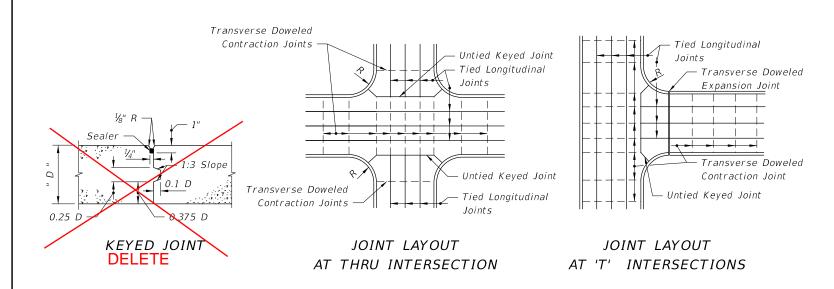
Note: After the concrete has set to the extent that the Keyway will retain its shape, the hex bolt and plastic insert shall be removed. The remaining portion of the hook bolt assembly shall be installed immediately prior to placing of concrete in the adjacent lane.

Anchor bolts shall be Grade C in accordance with ASTM A 307.

Threaded sleeves shall develop the full strength of the bolt and meet the material and thread requirements of ASTM A 563.

#### ALTERNATE KEYWAY AND HOOK BOLT

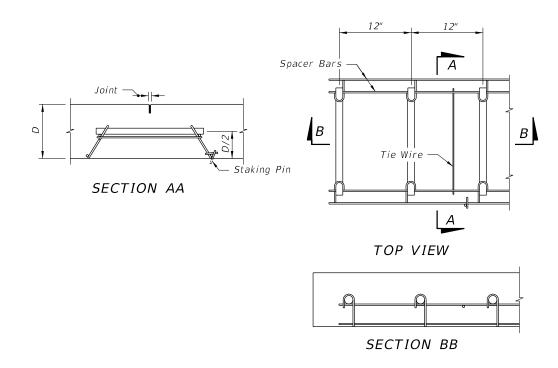
### STEEL HOOK BOLT ASSEMBLY



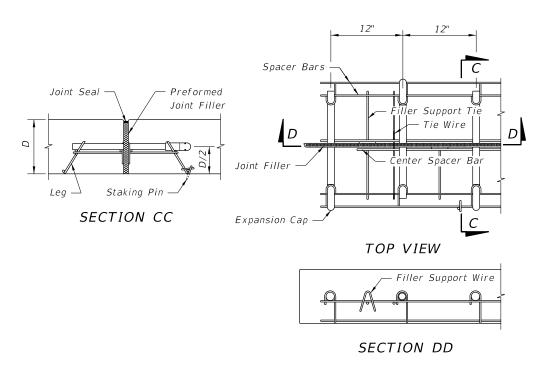
#### JOINT ARRANGEMENT

#### NOTES

- 1. Longitudinal joints will not be required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see Sheet 4.
- 2. Arrangement of longitudinal joints are to be as directed by the Engineer.
- 3. All manholes, meter boxes and other projections into the pavement shall be boxed-in with ½" preformed expansion joint material.



### CONTRACTION ASSEMBLY



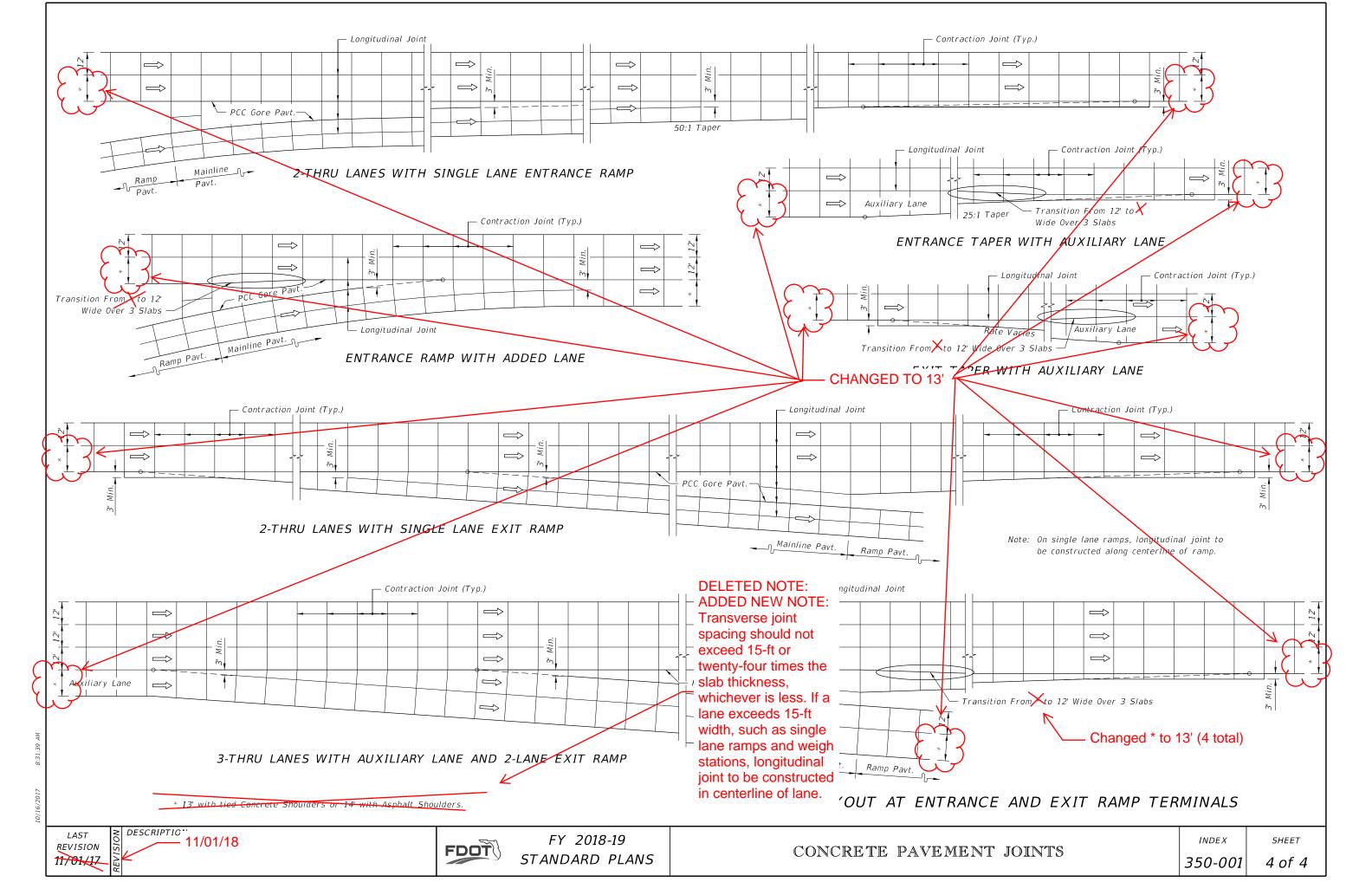
#### EXPANSION ASSEMBLY

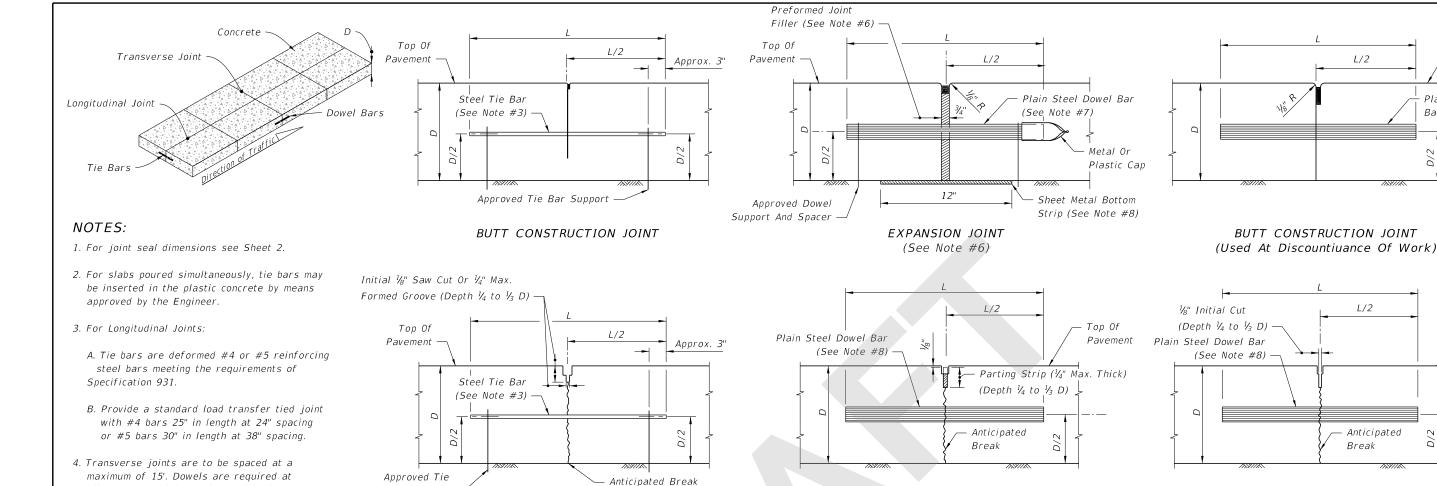
Note: Proprietary contraction and expansion assemblies may be used. Products shall be introduced to the State Construction Office in accordance with section (C) of the Product Evaluation Procedure.



FY 2018-19 STANDARD PLANS

SHEET 3 of 4



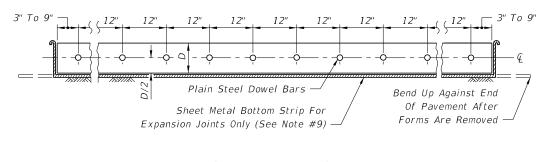


LONGITUDINAL JOINTS TRANSVERSE JOINTS

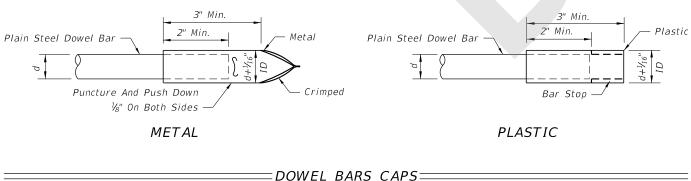


CONTRACTION JOINT

(Vibro Case Method)



DOWEL BAR LAYOUT =



Bar Support

**REVISION** 11/01/18

all transverse joints unless otherwise

6. Punch clean holes in preformed joint filler

7. Coat and lubricate plain steel dowel bars in

accordance with Specification 350.

8. Sheet metal bottom strips in accordance

DESCRIPTION:

greater than bar diameter.

with Specification 931.

5. Expansion joints to be placed at street intersections and other locations as indicated in the Plans.

For bridge expansion joints, see Index 370-001.

noted in the plans.

LANE-TIE JOINT

(See Note #2)

CONTRACTION JOINT

(Sawed Method)

Top Of

Plain Steel Dowel

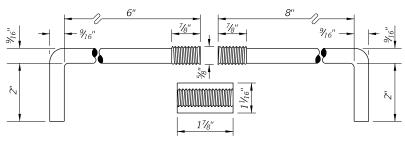
Bar (See Note #8)

Pavement

Top Of

Pavement

Note: After the concrete has set to the extent that the Keyway will retain its shape, the hex bolt and plastic insert shall be removed. The remaining portion of the hook bolt assembly shall be installed immediately prior to placing of concrete in the adjacent lane.

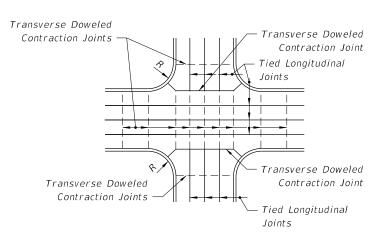


Anchor bolts shall be Grade C in accordance with ASTM A 307.

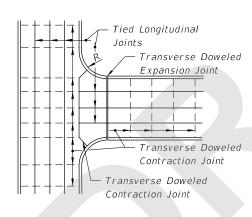
Threaded sleeves shall develop the full strength of the bolt and meet the material and thread requirements of ASTM A 563.

#### ALTERNATE KEYWAY AND HOOK BOLT

# STEEL HOOK BOLT ASSEMBLY



JOINT LAYOUT AT THRU INTERSECTION

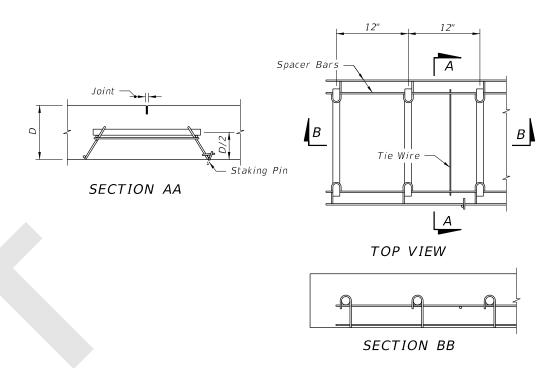


JOINT LAYOUT AT 'T' INTERSECTIONS

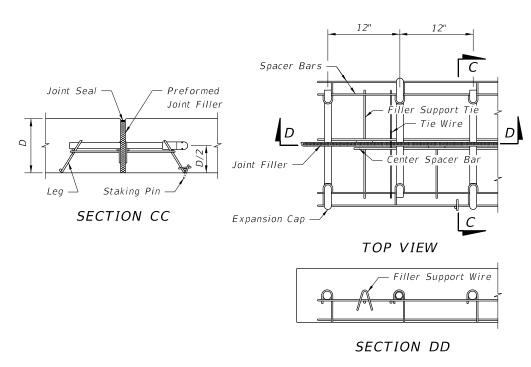
#### JOINT ARRANGEMENT

#### NOTES

- 1. Longitudinal joints will not be required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see Sheet 4.
- 2. Arrangement of longitudinal joints are to be as directed by the Engineer.
- 3. All manholes, meter boxes and other projections into the pavement shall be boxed-in with ½" preformed expansion joint material.



## CONTRACTION ASSEMBLY



### EXPANSION ASSEMBLY

Note: Proprietary contraction and expansion assemblies may be used. Products shall be introduced to the State Construction Office in accordance with section (C) of the Product Evaluation Procedure.

**REVISION** 11/01/18

DESCRIPTION:



FY 2019-20 STANDARD PLANS

CONCRETE PAVEMENT JOINTS

INDEX 350-001

SHEET 3 of 4

