ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Standard Plans:

Date: July 14, 2022 Originator: Mary Jane Hayden Phone: (850) 414-4783

Index Number: 350-001 Sheet Number (s): All

Index Title: Concrete Pavement Joints

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Email: maryjane.hayden@dot.state.fl.us

Summary of the changes:

Sheet 1: Deleted Notes 1 and 2; Added Note from Sheet 2; Deleted Contraction Joint (Vibro Case Method); Moved the Dowel Bars Cap, Dowel Bar Layout, and Relation of the Tie Bars to Dowel Bars details to New Sheet 2.

Sheet 2: Moved the Joint Seal Dimensions details to Sheet 1.

Sheet 3: New Sheet 2- Added the Dowel Bars Cap, Dowel Bar Layout, and Relation of the Tie Bars to Dowel Bars details.

New Sheet 3: Large Right Turn, Standard Intersection, and Skewed Intersection Details.

Sheet 4: New Sheet 5-Changed Note.

New Sheet 4: Isolation Joint Details.

Commentary / Background:

Redeveloped Index:

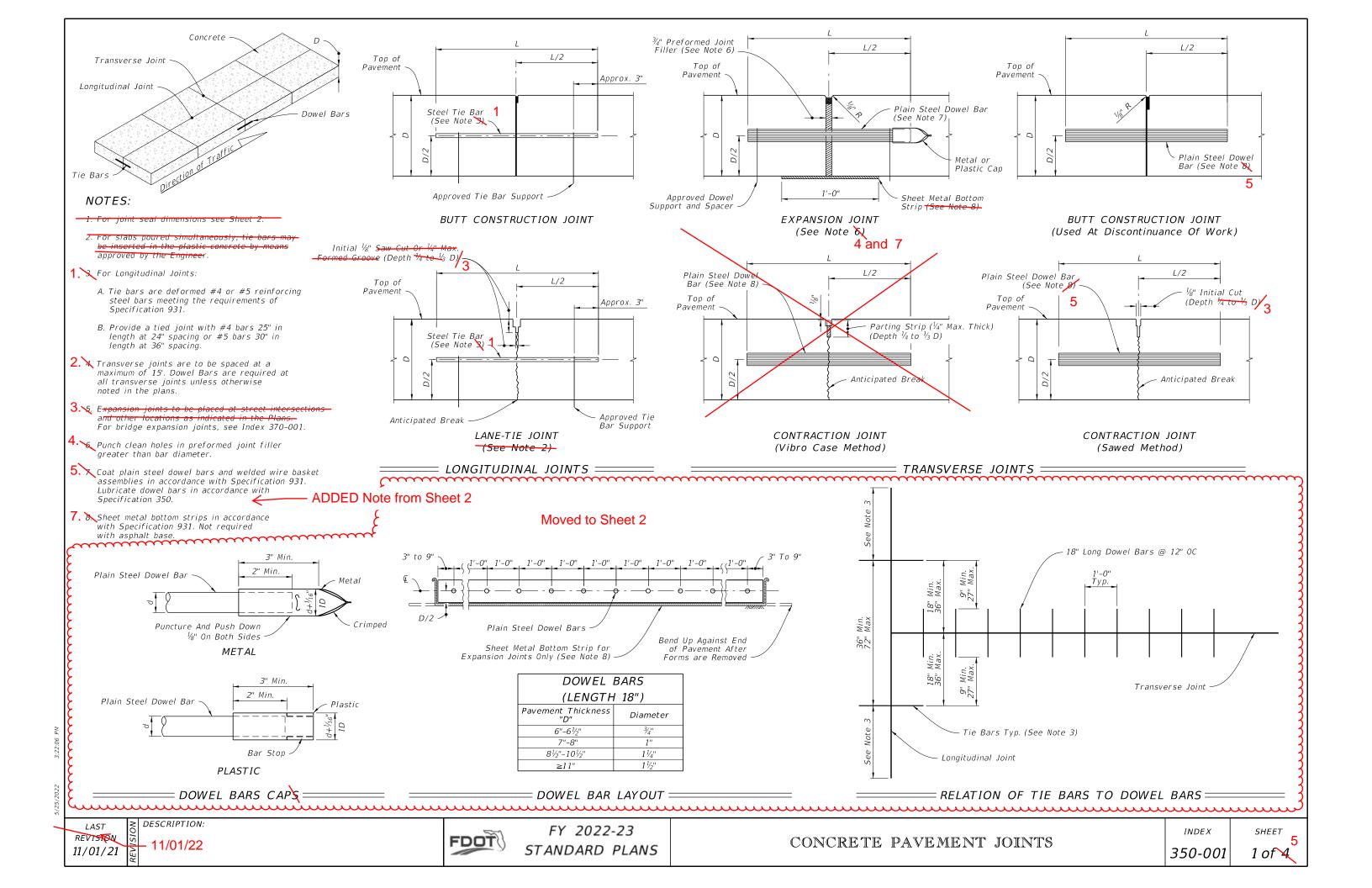
Index 350-001 was in need of update - there were several items in the Index that were outdated or not used. To perform this update, the State Pavement Design Office has been working with a task team consisting of FDOT staff (design, materials, and construction) and industry partners (suppliers, CEI, and contractors). This task team looked at items that were no longer necessary to remain, items that should remain, and items that should be added. Several of the new details were found to be best practices that are already in use by other State DOTs.

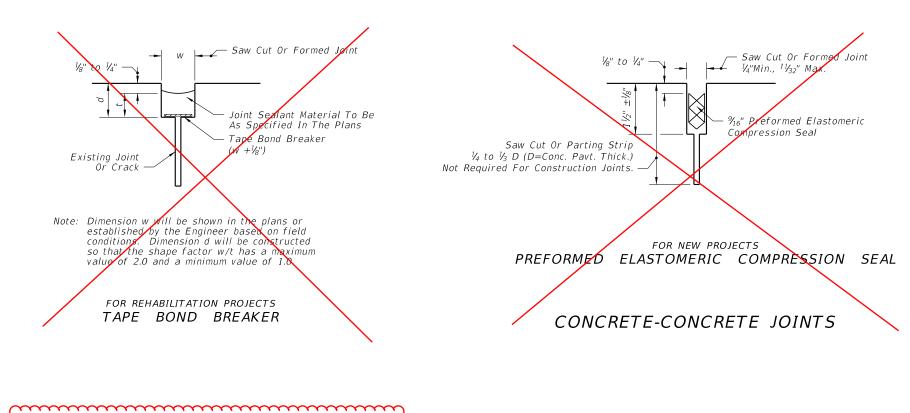
General cleanup/simplification of all sheets. Elimination of outdated or unused details (e.g., steel hook bolt assembly, vibro case method contraction joint detail). Addition of new joint layout details for intersections. Addition of isolation joint details. This update is for clarification and addition of new helpful details. No new or addi

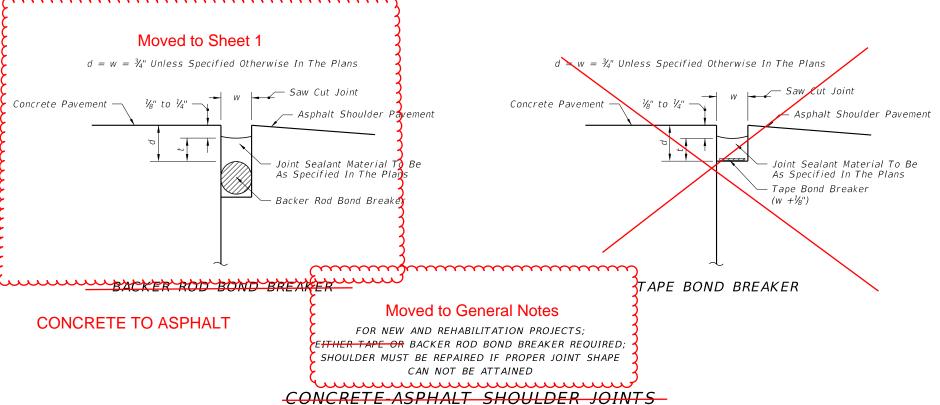
Other Affected Offices / Documents: (Provide name of person contacted)

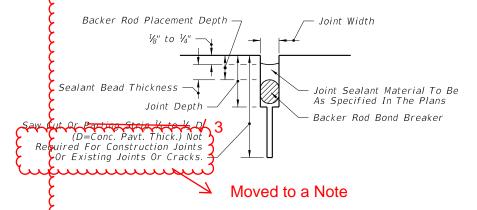
Yes	No V	Other Standard Plans — FDOT Design Manual — Basis of Estimates Manual — Standard Specifications — Approved Product List — Construction — Bish Hawitt participated on the development Task To	
	lacksquare	Construction – Rich Hewitt participated on the developmen Task Te Maintenance –	eam
Origination Package Includes: (Submit package to Rick Jenkins) Implementation:			
Yes	N/A	\mathcal{A}	Design Bulletin (Interim)
\checkmark		Redline Mark-ups	☐ DCE Memo
	\checkmark	Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin
	\checkmark	Other Support Documents	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form









FOR NEW AND REHABILITATION PROJECTS BACKER ROD BOND BREAKER

Moved to Sheet 1

BACKER ROD BOND BREAKER (CONCRETE-CONCRETE JOINTS)

	JOINT DIMENSIONS (INCHES)						
	JOINT WIDTH	SEALANT BEAD THICKNESS	BACKER ROD DIA.	MINIMUM JOINT DEPTH	BACKER ROD PLACEMENT DEPTH		
	1/4	1/4	³ / ₈	1	1/2		
	3/8	1/4	1/2	1 1/4	1/2		
_	1/2	1/4	5/8	1 1/4	1/2		
_	5/8	5 /16	3/4	11/2	9/16		
-	3/4	3/8	1	134	5/8		
_	7/8	7/16	11/8	13/4	11/16		
_	1	1/2	11/4	2	3/4		
	>1	1/2	11/4+	21	3/4		

Unless otherwise indicated on the plans the joint width for new construction will be 1/4" for construction joints, $\frac{3}{8}$ " for all other joints.

For rehabilitation projects the joint width will be shown on the plans or established by the Engineer based on field conditions.

CONCRETE TO CONCRETE

DESCRIPTION: **REVISION** 11/01/22 11/01/17

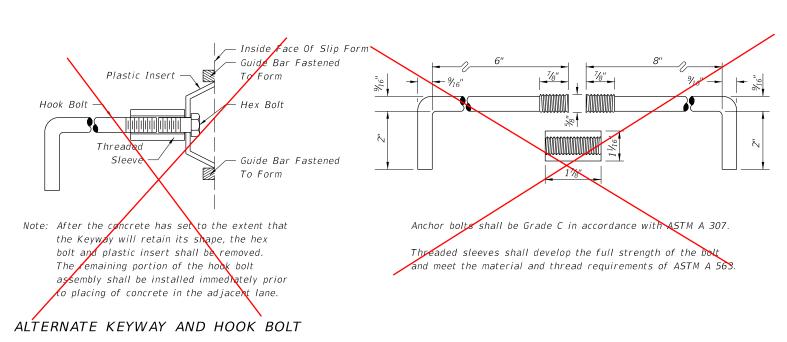
FDOT

JOINT SEAL DIMENSIONS

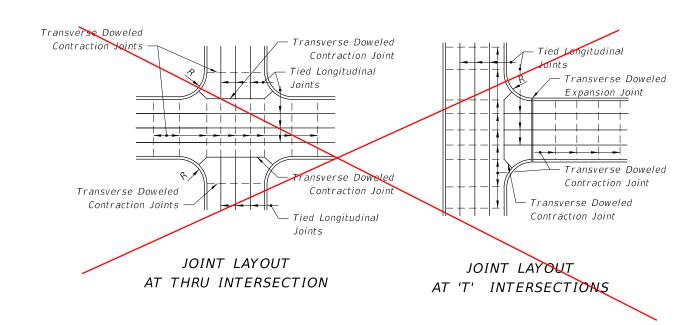
FY 2022-23 STANDARD PLANS

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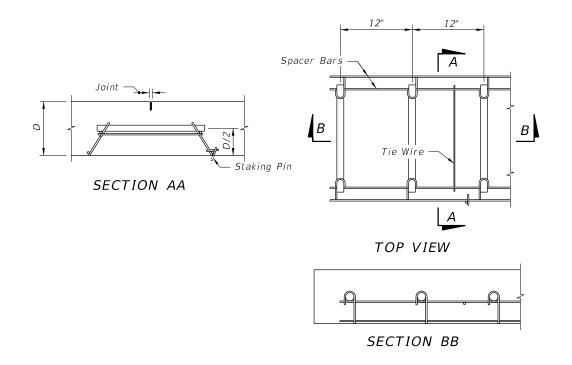
STEEL HOOK BOLT ASSEMBLY



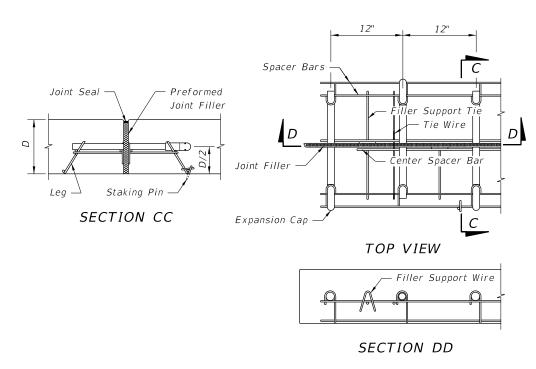
JOINT ARRANGEMENT

Moved to Sheet 3

Moved to Sheet 4 FY 2022-23



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.

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SHEET

3 of 4

REVISION 11/01/18

DESCRIPTION: 11/01/22

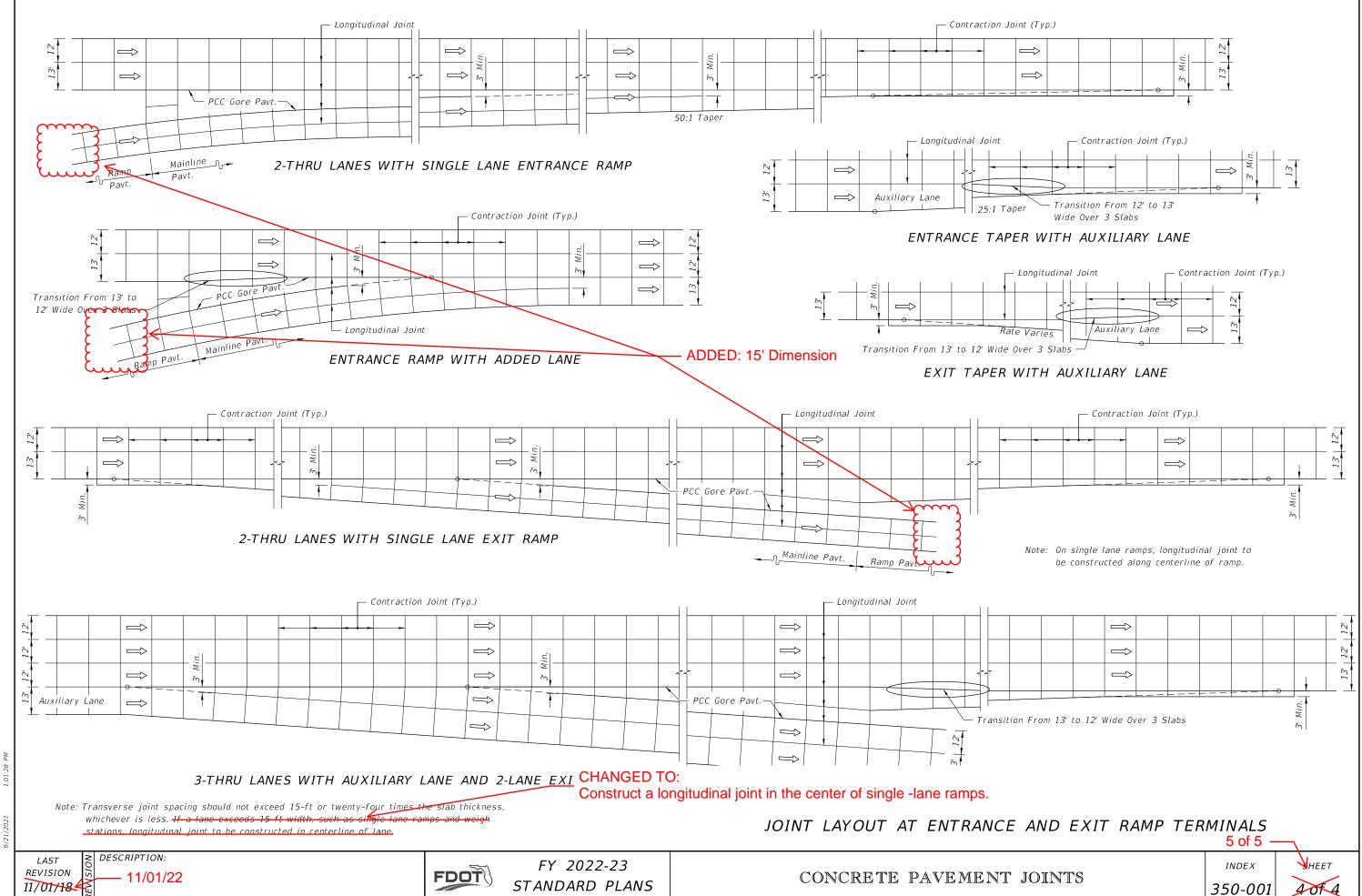
STANDARD PLANS

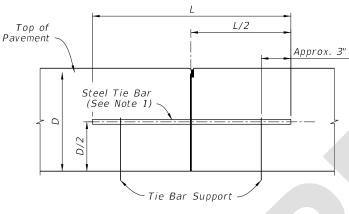
NEW SHEET 3

LARGE RIGHT TURN, STANDARD INTERSECTION, AND SKEWED INTERSECTION DETAILS

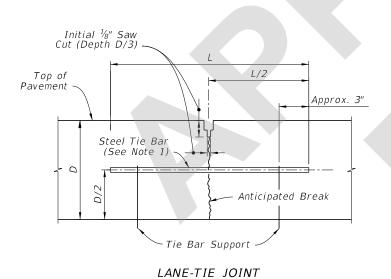
NEW SHEET 4

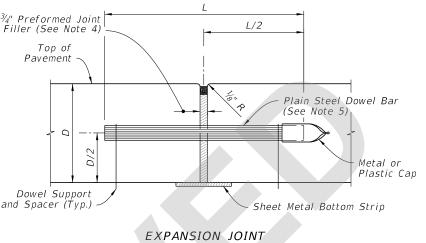
ISOLATION JOINT DETAILS



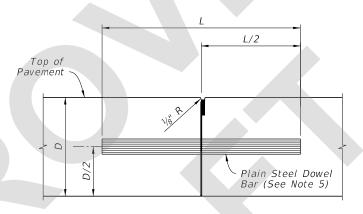




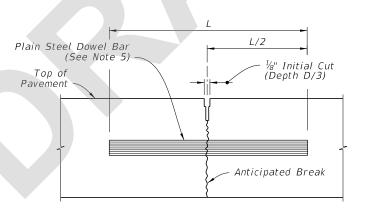




(See General Notes 4 and 7)

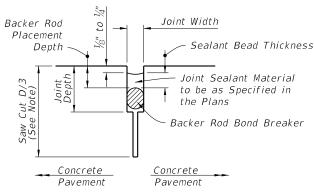


BUTT CONSTRUCTION JOINT (Used At Discontinuance Of Work)



CONTRACTION JOINT (Sawed Method)

= TRANSVERSE JOINTS ==



(D=Conc. Pavt. Thick.) Not required for construction joints, existing joints, or cracks.

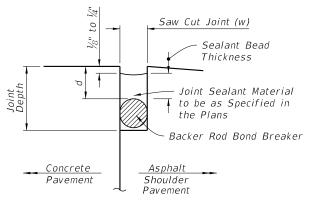
BACKER ROD BOND BREAKER (CONCRETE-CONCRETE JOINTS)

JOINT DIMENSIONS (INCHES)								
JOINT	SEALANT	BACKER ROD DIA.	MINIMUM	BACKER ROD				
WIDTH	BEAD		JOINT	PLACEMENT				
WIDIII	THICKNESS		DEPTH	DEPTH				
1/4	1/4	3/8	1	1/2				
3/8	1/4	1/2	1 1/4	1/2				

Unless otherwise indicated on the plans the joint width for new construction will be $\frac{1}{4}$ " for construction joints, $\frac{3}{8}$ " for all other joints.

For rehabilitation projects the joint width will be shown on the plans or established by the Engineer based on field conditions.

CONCRETE-CONCRETE JOINTS



"d" and "w" = $\frac{3}{4}$ ", unless specified in the Plans.

CONCRETE-ASPHALT SHOULDER JOINTS

=== JOINT SEAL DIMENSIONS====

REVISION 11/01/22

GENERAL NOTES:

1. For Longitudinal Joints:

A. Tie bars are deformed #4 or #5

reinforcing steel bars meeting the

requirements of Specification 931.

B. Provide a tied joint with #4 bars 25" in length at 24" spacing or #5

2. Transverse joints are to be spaced at

a maximum of 15'. Dowel Bars are

3. For bridge expansion joints, see Index 370-001.

4. Punch clean holes in preformed joint

wire basket assemblies in accordance

6. New and rehabilitation projects, backer rod bond breaker is required. Shoulder

can not be attained.

asphalt base.

with Specification 931. Lubricate dowel

must be repaired if proper joint shape

7. Sheet metal bottom strips in accordance with Specification 931. Not required with

DESCRIPTION:

bars in accordance with Specification 350.

filler greater than bar diameter. 5. Coat plain steel dowel bars and welded

otherwise noted in the plans.

bars 30" in length at 36" spacing.

required at all transverse joints unless

FDOT

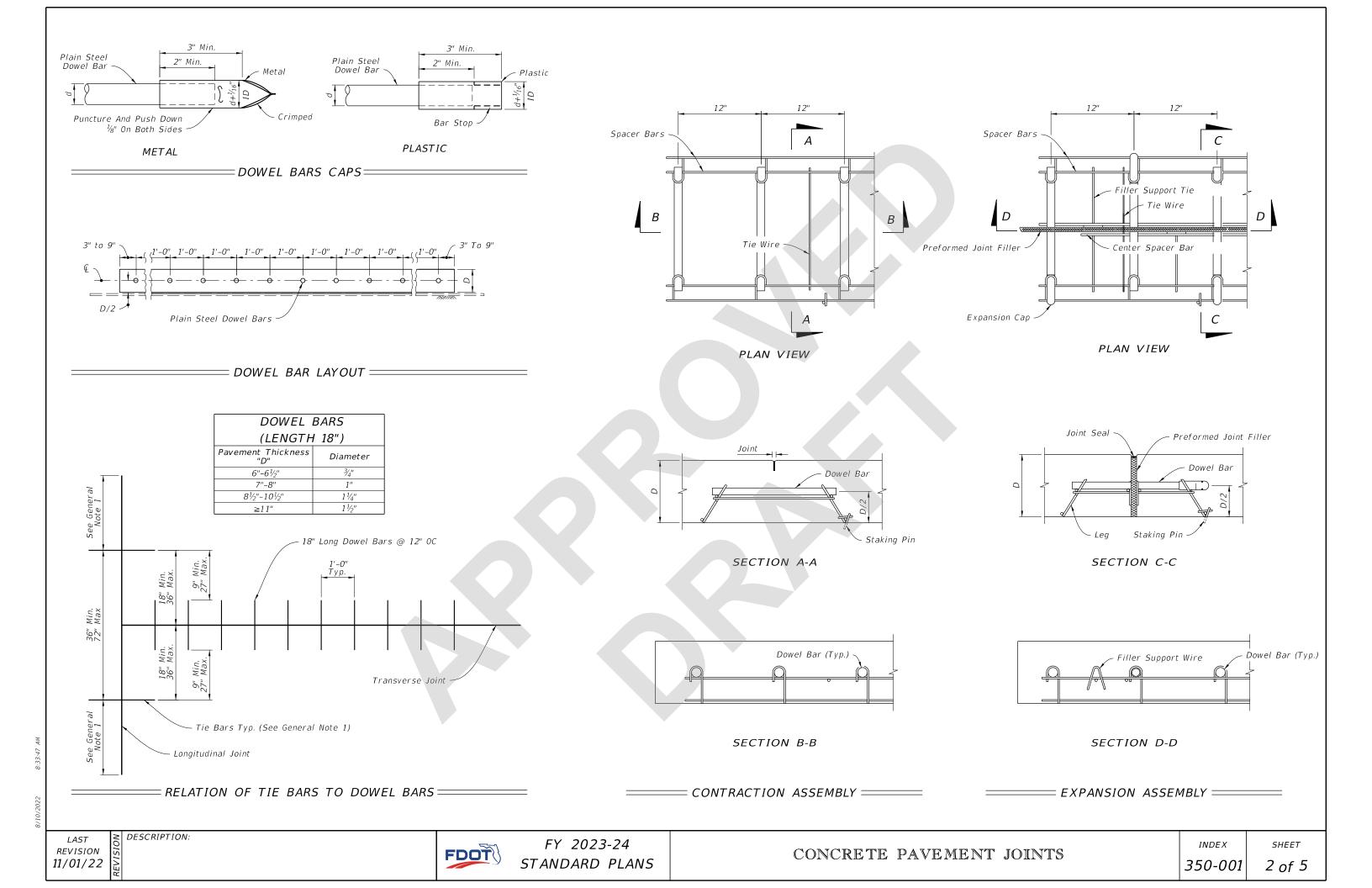
===== LONGITUDINAL JOINTS ===

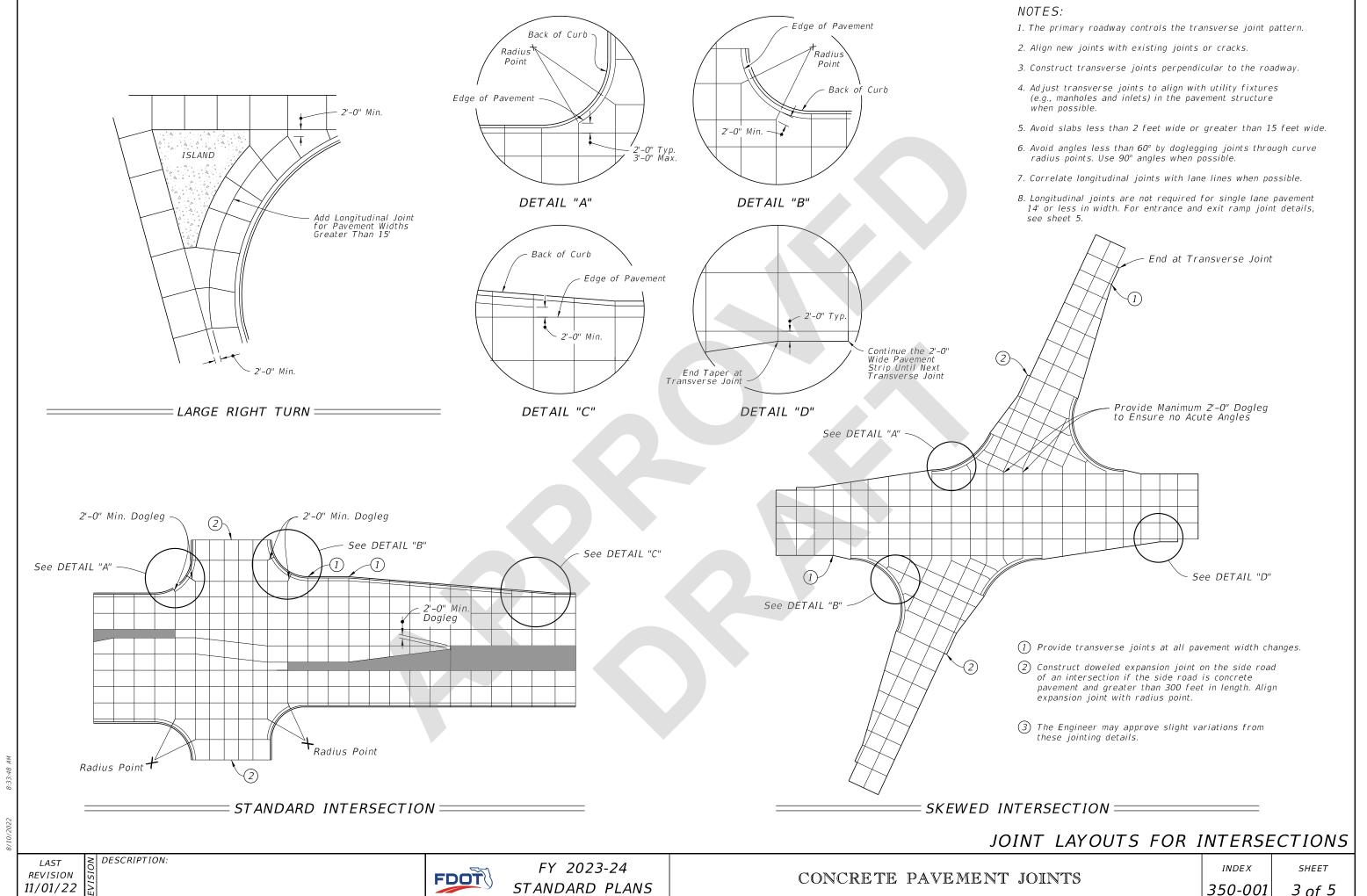
FY 2023-24 STANDARD PLANS

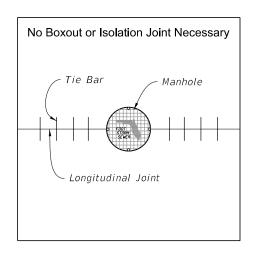
CONCRETE PAVEMENT JOINTS

INDEX 350-001

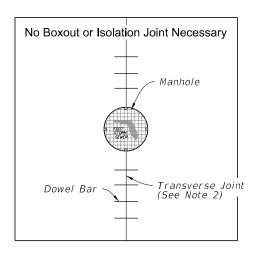
SHEET







= MANHOLE WITH = LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT

No Boxout or Isolation

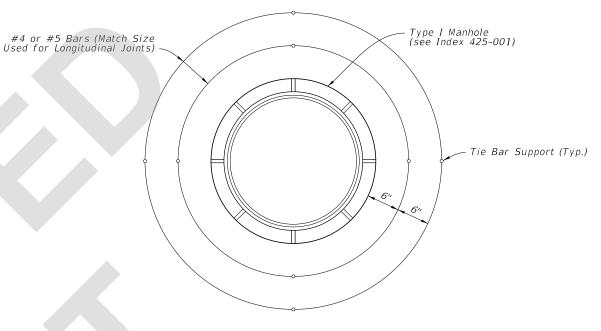
Joint Necessary

See Note 4

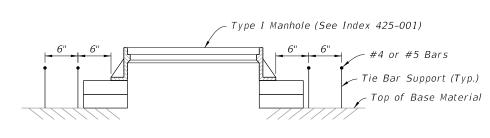
Diverted Transverse Joint

Install Dowel Bars Parallel to the Pavement Centerline

Dowel Bar

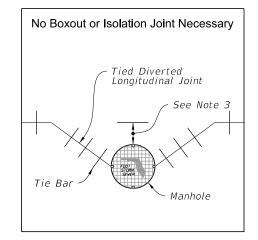


PLAN



ELEVATION

MANHOLE REINFORCEMENT = (See Notes 3 and 4)



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT

MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

NOTES:

- 1. Use boxouts when utility structure is in the path of construction joints. Provide a 1 foot minimum clearance between the exterior limit of the structure to the diamond boxout.
- 2. Adjust transverse joint to intersect manhole, if possible.
- 3. If distance between the longitudinal joint and the edge of manhole is 2 feet or less, divert the longitudinal joint at a 2:1 taper rate to the center of the manhole. If the distance is greater than 2 feet, do not divert the joint, saw as normal, and place reinforcement rebar around the manhole.
- 4. If the distance from the edge of the manhole to the nearest transverse joint is 4 feet or less, redirect joint at 2:1 taper to intersect the center of the manhole. If distance is greater than 4 feet, do not divert the joint, saw as normal, and place reinforcement rebar around the
- 5. Align transverse joint with one edge of inlet when practical.
- 6. All manholes, meter boxes and other projections into the pavement shall be boxed-in with $\frac{1}{2}$ " preformed expansion joint material.

ISOLATION JOINT DETAILS

LAST REVISION 11/01/22

DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

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SHEET

