ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

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

Contact Information:

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Standard Plans:

Index Number: 446-001

Sheet Number (s): 1, 3 and 4 of 4

Index Title: Concrete Pavement Subdrainage

Summary of the changes:

- Sheet 1: Updated Note 4 "Provide and install Type D-3 geotextile in accordance with Specifications 514." Changed all references of "Filter Fabric" to Geotextile.
- Sheet 3: Moved Note 3 to General Note 4 on Sheet 1; Renumbered Notes; Updated Note references in callout; Changed all references of "Filter Fabric" to "Geotextile".
- Sheet 4: Moved Note 3 to General Note 4 on Sheet 1; Renumbered Notes; Updated Note references in callout; Changed all references of "Filter Fabric" to "Geotextile".

Areas of the Standard Plans where 985 is referenced for drainage details needs to now reference Specs 514 (Division II specs). The Contractor is not responsible for the producer requirements division III specs, but ensure that the product used is on the APL and used for appropriate intended use. Specs 514 essentially does reference 985 to meet the materials requirement.

Commentary / Background:

In the July 2022 SSRBC workbook, construction requirements for the Contractor for geosynthetic materials from Section 985 was removed. The reason for it was that the construction requirements doesn't belong in Division III of the specifications, as this is for producer requirements. Instead of applying specific requirements to each individual specs that references 985 in Division II, the Department is going to modify specification 514 to cover geosynthetics used for drainage applications. Specs 145 covers the reinforcement (structural) applications and construction requirements and erosion control has specific requirements in various areas of Division II, therefore, both erosion and reinforcement are covered. The only missing link in Division II is the drainage applications. Proposed changes to 514 cover construction requirements and material acceptance. In addition, specs 514 ensures that the Contractor obtains geosynthetic product from a manufacturer that meets 985 spec requirements.

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

Yes	No		
	\checkmark	Other Standard Plans –	
	V	FDOT Design Manual –	
	\checkmark	Basis of Estimates Manual –	
\checkmark		Standard Specifications – Various sections where 985 is referenced.	
	lacksquare	Approved Product List –	
	\checkmark	Construction –	
	\checkmark	Maintenance –	
<u>Origin</u>	atio	n Package Includes: (Submit package to Rick Jenkins)	Implementation:
Yes	N/A	4	Design Bulletin (Interim)
\checkmark		Redline Mark-ups	☐ DCE Memo
	\checkmark	Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin
		Other Support Documents	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

GENERAL NOTES:

- 1. Do not leave trench greater than 2' in depth overnight. Barricade trenches at all times.
- 2. Construct concrete pavement subdrainage adjacent to the low edge of the roadway pavement and under travel lanes, auxiliary pavement and shoulders, as called for in the plans. Extend the concrete pavement subdrainage 50' beyond and begin 50' before the flat point (100' overlap) when the low edge shifts between outside and inside edges of pavement Place concrete pavement subdrainage on the low side of ramps for crossroad terminals,
- 3. Install concrete pavement subdrainage on a grade parallel with the edge of pavement profile, except on profiles flatter than one-tenth percent (0.10%) install the concrete pavement subdrainage on a minimum grade of one-tenth percent (0.10%).
- 4. Remove adhering base material and soil from the vertical face of the concrete immediately prior to placing the filter fabric
- 5. Submit a procedure for holding the filter fabric in position on the vertical face of the trench for approval by the Engineer prior to placing draincrete.
- 6. Cap the upper end of each separate run of the concrete pavement subdrainage pipe.
- 7. Install outlet pipes at 500' maximum intervals. Use elbows or 1/8 bends to connect the outlet pipe to the concrete pavement subdrain pipe. Use elbows or bends of the same material as the outlet pipe.

Stub outlet pipes into existing inlets or into existing ditch pavements at an elevation 6" above the inlet flowline or ditch bottom when directed by the Engineer. Concrete apron and bordering sod are not required for stubbed outlets, but replacement sodding will be required at trenches for pipes stubbed into paved ditches.

Install a single outlet apron for separate outlet pipes of concrete pavement subdrainage from opposite directions in sag vertical curves.

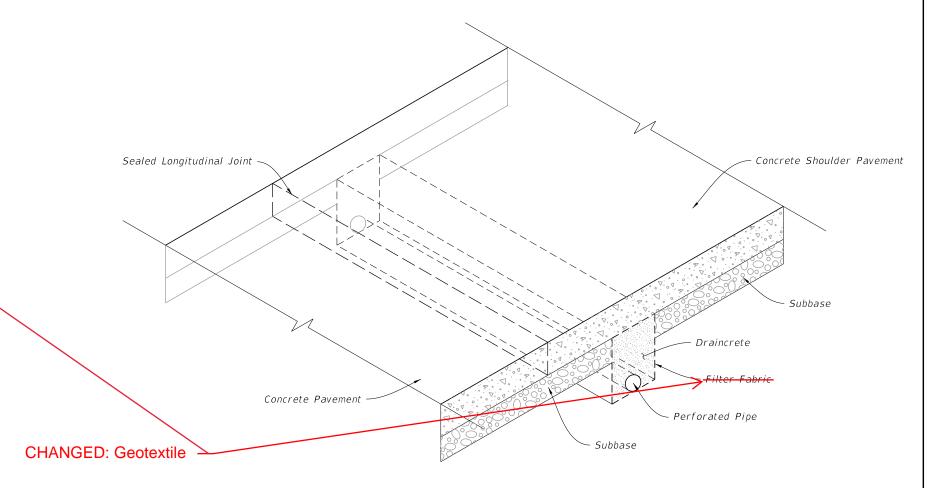
Install backfill consisting of cohesive soils around outlet pipes.

8. Replace existing paved shoulder removed for the construction of outlet pipes with Type SP asphaltic concrete at the rate of 500 LB per SY.

TABLE OF CONTENTS:		
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1	General Notes and Contents	
2	Edgedrain and Outlet	
3	New Construction	
4	Rehabilitation	

UPDATED Note 4:

- Provide and install Type D-3 geotextile in accordance with Specifications 514.



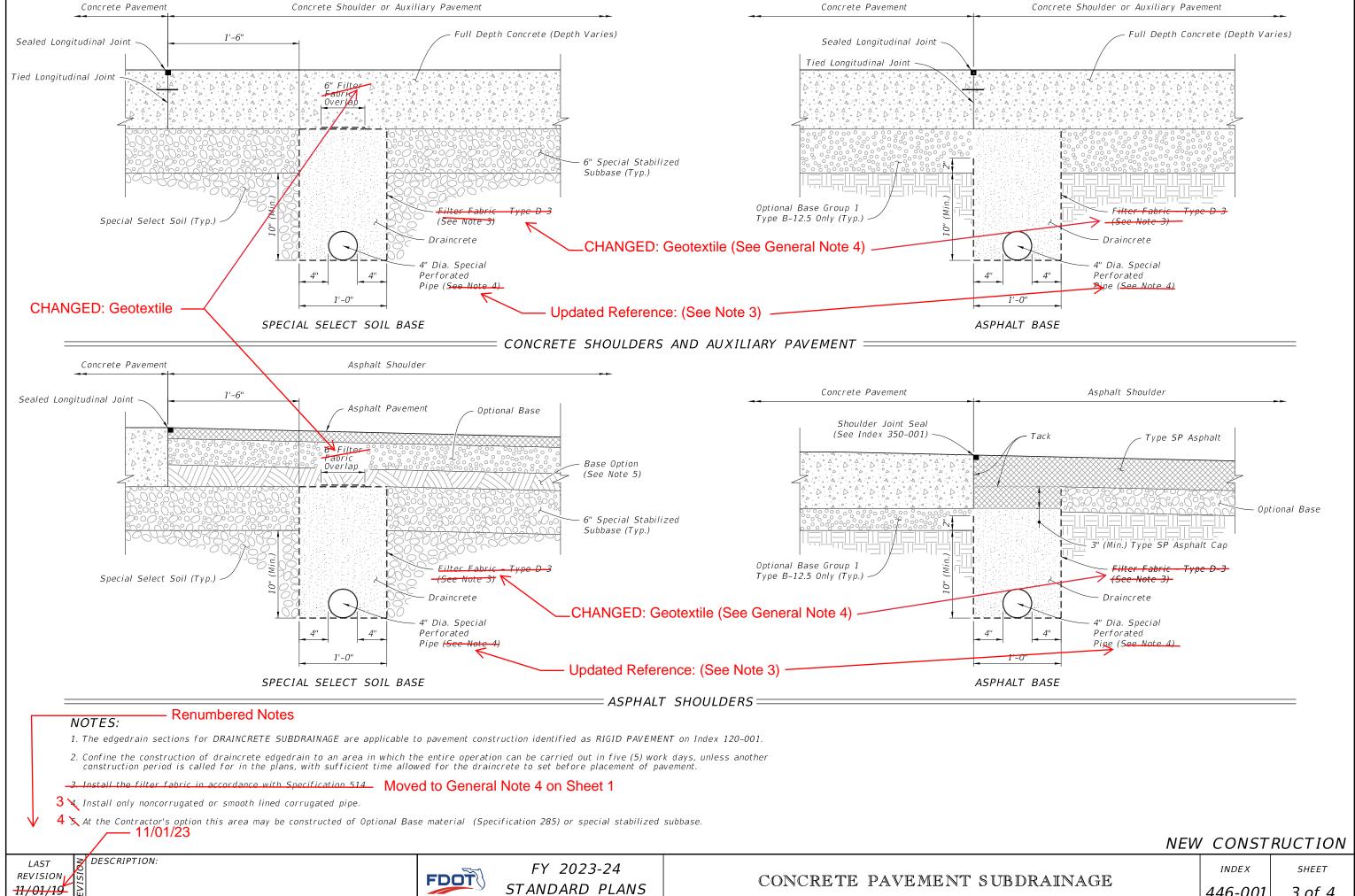
DRAINCRETE SUBDRAINAGE =

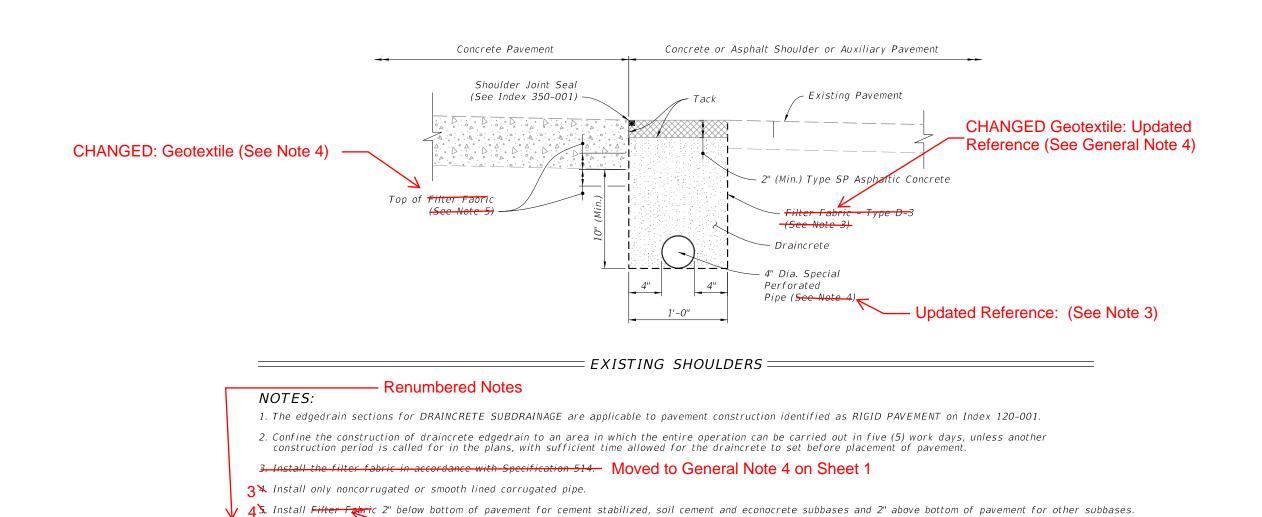
11/01/23

DESCRIPTION:

REVISION 11/01/19







CHANGED: Geotextile

11/01/23

DESCRIPTION:

REHABILITATION

REVISION 11/01/19

FDOT

GENERAL NOTES:

- 1. Do not leave trench greater than 2' in depth overnight. Barricade trenches at all times.
- 2. Construct concrete pavement subdrainage adjacent to the low edge of the roadway pavement and under travel lanes, auxiliary pavement and shoulders, as called for in the plans. Extend the concrete pavement subdrainage 50' beyond and begin 50' before the flat point (100' overlap) when the low edge shifts between outside and inside edges of pavement. Place concrete pavement subdrainage on the low side of ramps for crossroad terminals.
- 3. Install concrete pavement subdrainage on a grade parallel with the edge of pavement profile, except on profiles flatter than one-tenth percent (0.10%) install the concrete pavement subdrainage on a minimum grade of one-tenth percent (0.10%).
- 4. Remove adhering base material and soil from the vertical face of the concrete immediately prior to placing the geotextile. Provide and install Type D-3 geotextile in accordance with Specification 514.
- 5. Submit a procedure for holding the geotextile in position on the vertical face of the trench for approval by the Engineer prior to placing draincrete.
- 6. Cap the upper end of each separate run of the concrete pavement subdrainage pipe.
- 7. Install outlet pipes at 500' maximum intervals. Use elbows or 1/8 bends to connect the outlet pipe to the concrete pavement subdrain pipe. Use elbows or bends of the same material as the outlet pipe.

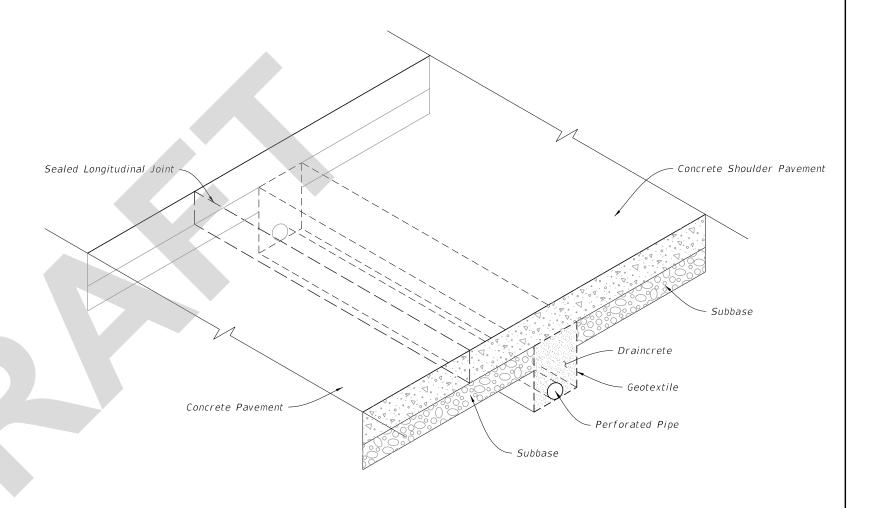
Stub outlet pipes into existing inlets or into existing ditch pavements at an elevation 6" above the inlet flowline or ditch bottom when directed by the Engineer. Concrete apron and bordering sod are not required for stubbed outlets, but replacement sodding will be required at trenches for pipes stubbed into paved ditches.

Install a single outlet apron for separate outlet pipes of concrete pavement subdrainage from opposite directions in sag vertical curves.

Install backfill consisting of cohesive soils around outlet pipes.

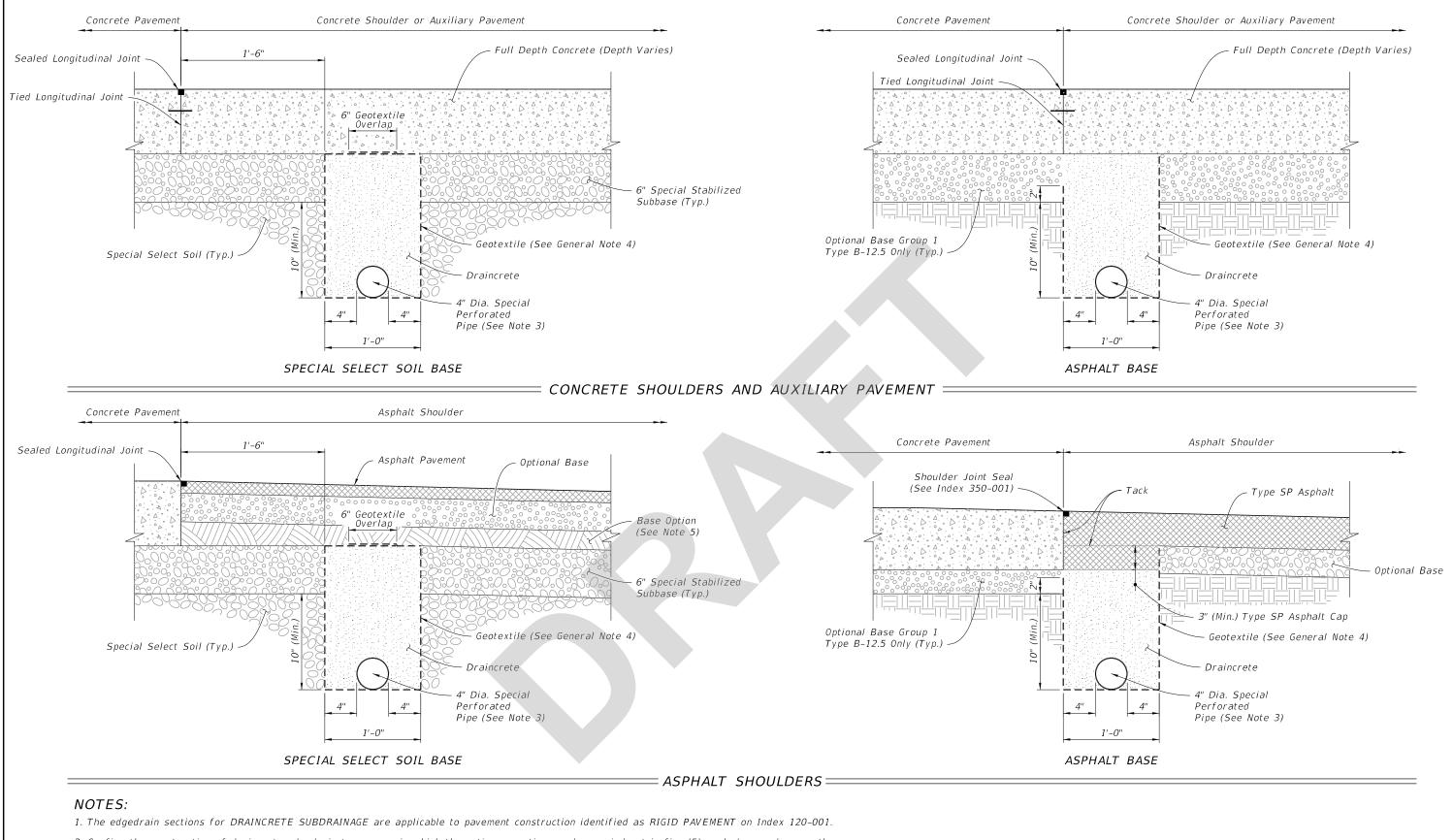
8. Replace existing paved shoulder removed for the construction of outlet pipes with Type SP asphaltic concrete at the rate of 500 LB per SY.

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DRAINCRETE SUBDRAINAGE =

DESCRIPTION:



- 2. Confine the construction of draincrete edgedrain to an area in which the entire operation can be carried out in five (5) work days, unless another construction period is called for in the plans, with sufficient time allowed for the draincrete to set before placement of pavement.
- 3. Install only noncorrugated or smooth lined corrugated pipe.
- 4. At the Contractor's option this area may be constructed of Optional Base material (Specification 285) or special stabilized subbase.

NEW CONSTRUCTION

LAST REVISION 11/01/23

DESCRIPTION:

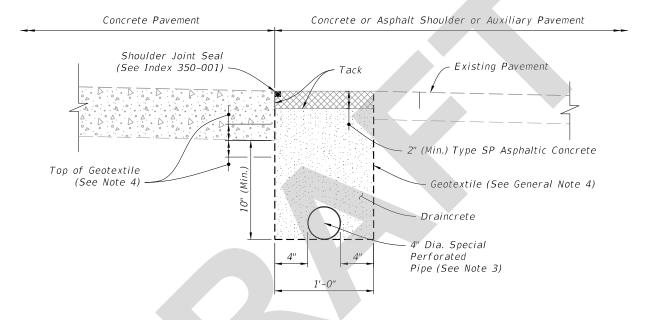
FDOT

FY 2024-25 STANDARD PLANS

CONCRETE PAVEMENT SUBDRAINAGE

INDEX 446-001

SHEET



EXISTING SHOULDERS

NOTES:

- 1. The edgedrain sections for DRAINCRETE SUBDRAINAGE are applicable to pavement construction identified as RIGID PAVEMENT on Index 120-001.
- 2. Confine the construction of draincrete edgedrain to an area in which the entire operation can be carried out in five (5) work days, unless another construction period is called for in the plans, with sufficient time allowed for the draincrete to set before placement of pavement.
- 3. Install only noncorrugated or smooth lined corrugated pipe.
- 4. Install geotextile 2" below bottom of pavement for cement stabilized, soil cement and econocrete subbases and 2" above bottom of pavement for other subbases.

28/2023 1:0

LAST REVISION IN 11/01/23

DESCRIPTION:

FDOT

FY 2024-25
STANDARD PLANS

REHABILITATION