
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

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

Contact Information:

Date: June 5, 2023

Originator: Dino Jameson

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Email: dino.jameson@dot.state.fl.us

Standard Plans:

Index Number: 524-001

Sheet Number (s): 1, 2, and 3 of 3

Index Title: Ditch Pavement and Sodding

Summary of the changes:

Sheet 1: Updated GENERAL NOTE 5 "Select appropriate geotextile based on the application type referenced in Specification 985 and install in accordance with Specification 514 under all ditch pavement except for miscellaneous asphalt."

Sheet 2: Changed "Filter Fabric" to "Geotextile" in Table 1.

Sheet 3: 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 | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Standard Specifications – Various sections where 985 is referenced. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes: (Submit package to Rick Jenkins)

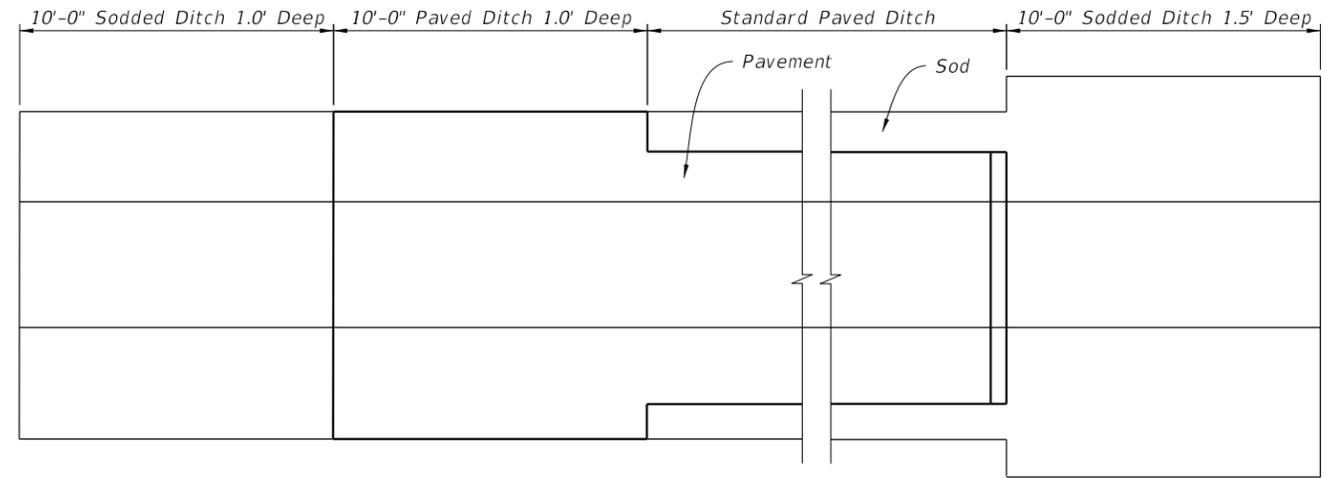
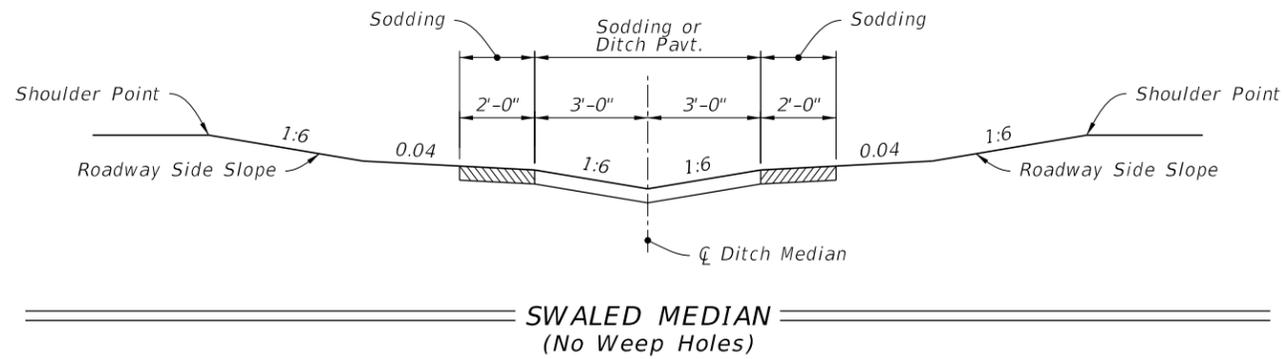
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|-------------------------------------|-------------------------------------|---|
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Revised or Proposed Standard Plan Instruction (SPI) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Other Support Documents |

Implementation:

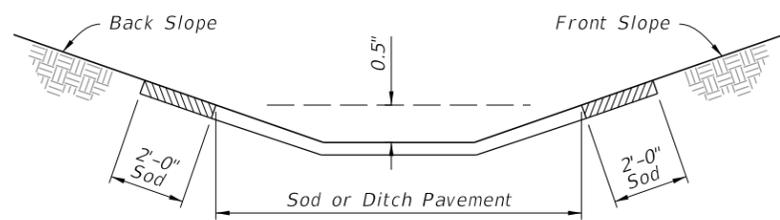
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| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form

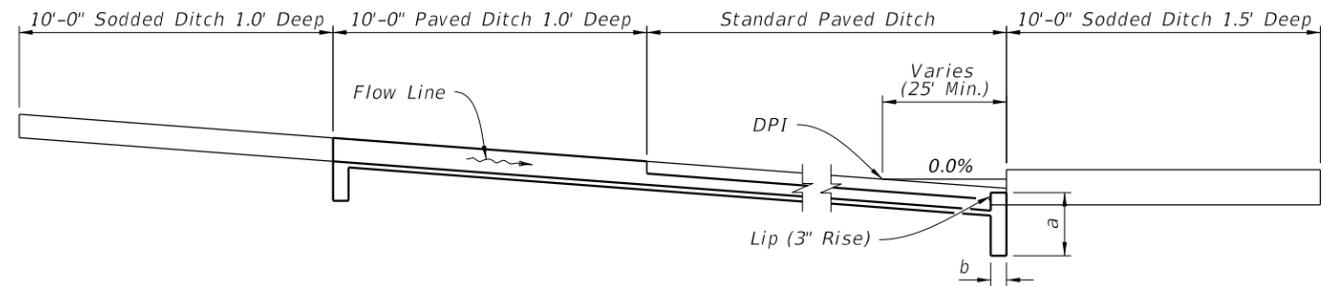
Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us



PLAN



ROADWAY SIDE DITCH



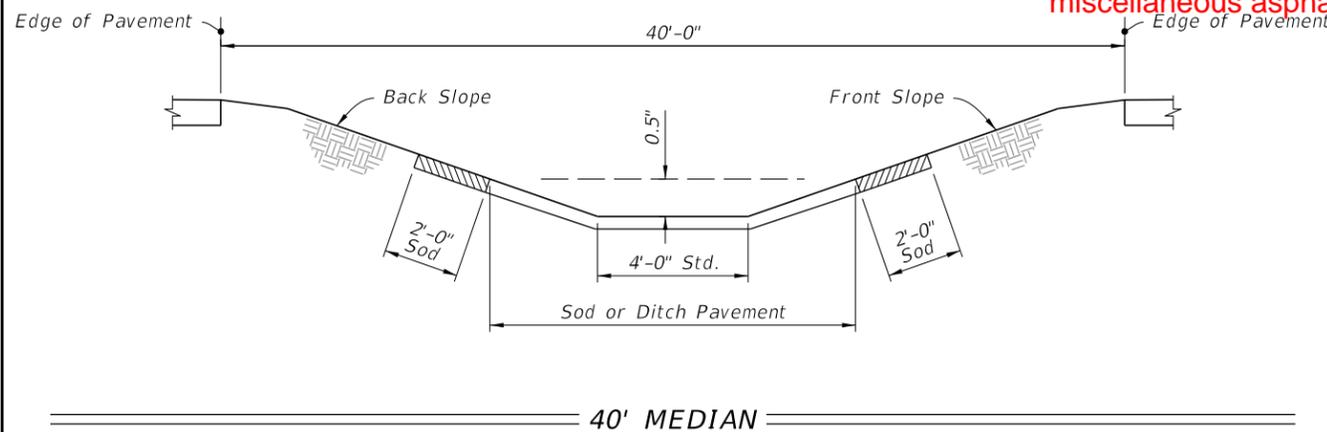
SECTION A-A

PAVED DITCH END TREATMENT

UPDATED Note 5:
Select appropriate geotextile based on the application type referenced in Specification 985 and install in accordance with Specification 514 under all ditch pavement except for miscellaneous asphalt.

GENERAL NOTES:

1. Install type of ditch pavement shown on Plans.
2. Construct lip at the end of ditch pavement downstream of DPI or on flatter grades where there is a decrease in ditch velocity.
3. Use toewalls with all ditch paving, except adjacent to drainage structures.
4. Construct sides of paving with 1' minimum height for junction of R/W ditch spillway and lateral ditch.
5. ~~Install filter fabric under all ditch pavement except for miscellaneous asphalt.~~
6. Install ditch pavement requiring reinforcement as detailed in Plans.



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LAST REVISION 11/01/22	DESCRIPTION:
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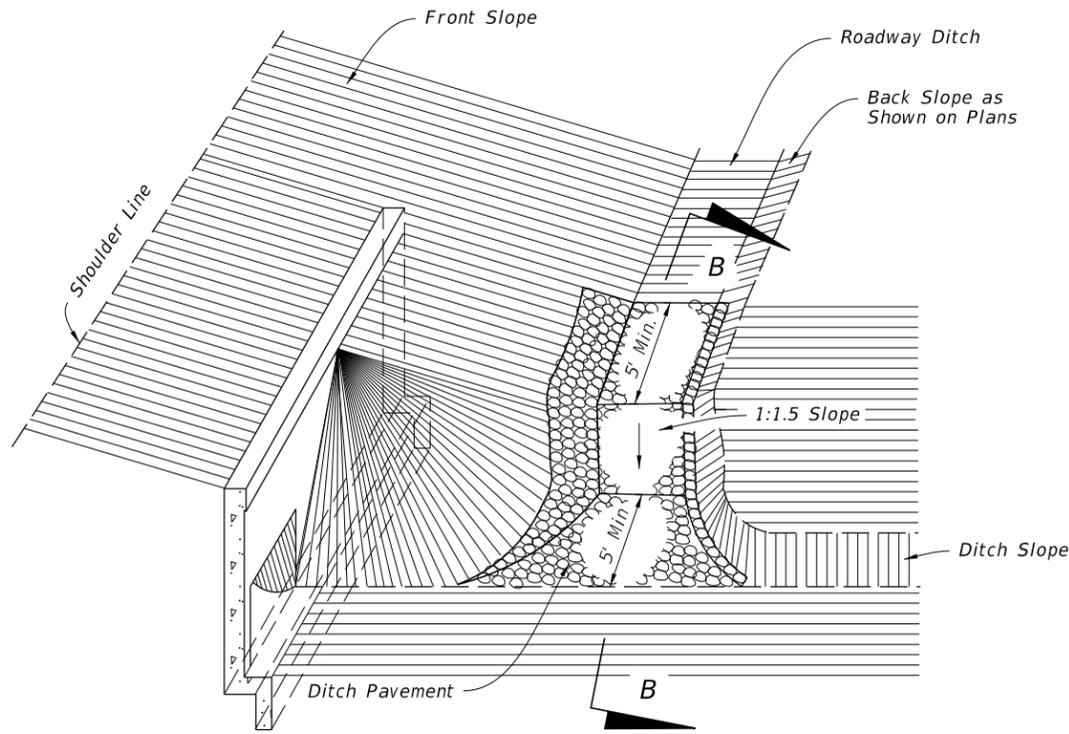


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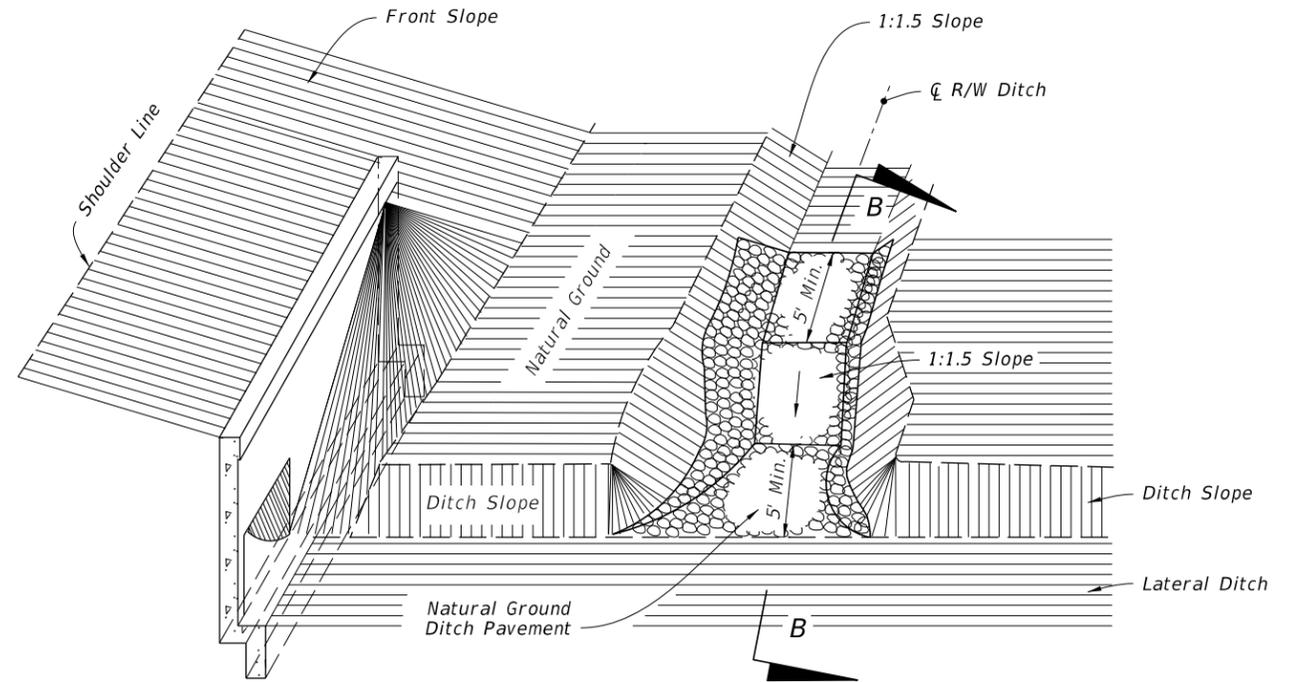
DITCH PAVEMENT AND SODDING

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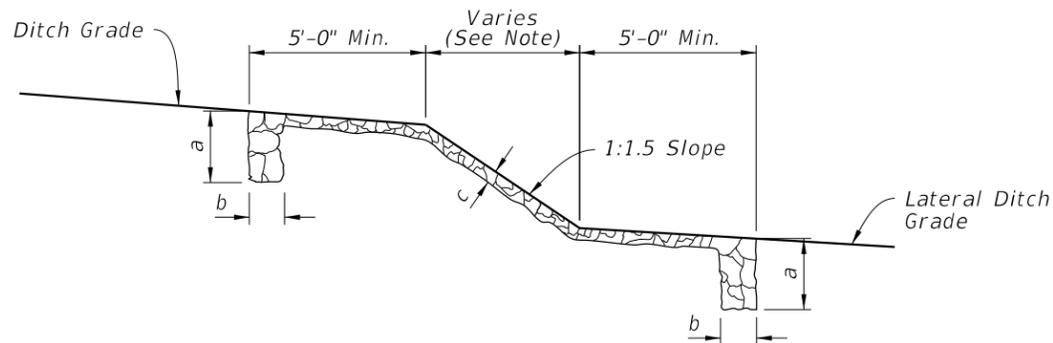
NOTE:
Miscellaneous asphalt will not be permitted for this type of construction.



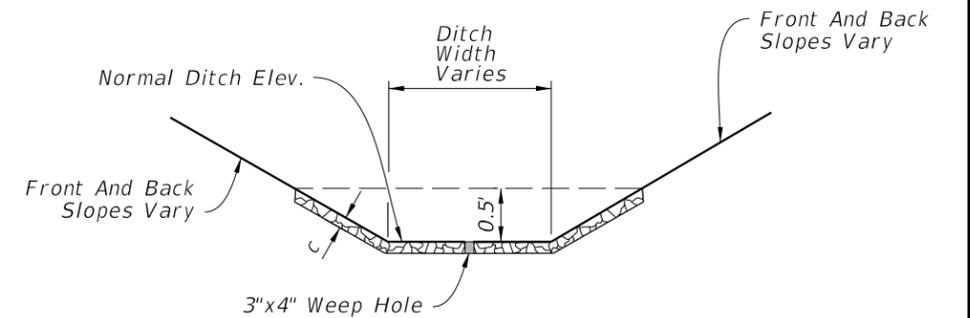
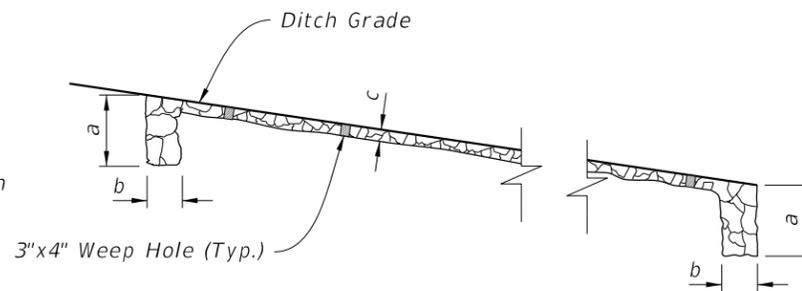
NOTE:
Miscellaneous asphalt will not be permitted for this type of construction.

JUNCTION OF ROADWAY DITCH AND LATERAL DITCH

JUNCTION OF R/W DITCH AND LATERAL DITCH



NOTE:
Do not construct weep holes in this area or 5' upstream



SECTION B-B
(As Shown)

SECTION B-B
(Locations Other Than Junction with Lateral Ditch)

TYPICAL SECTION

TABLE 1: DITCH PAVEMENT

Pavement Type	Dimensions			Filter Fabric Type	References & Remarks
	a	b	c		
Concrete	24"	6"	Varies	D-4	Specification 524
Miscellaneous Asphalt	24"	12"	4"	None	Specification 339
Riprap (Sand-Cement)	24"	12"	4"	D-4	Specification 530, Grouting of joints required
Riprap (Ditch Lining)	--	--	--	D-2	Specification 530

changed: Geotextile

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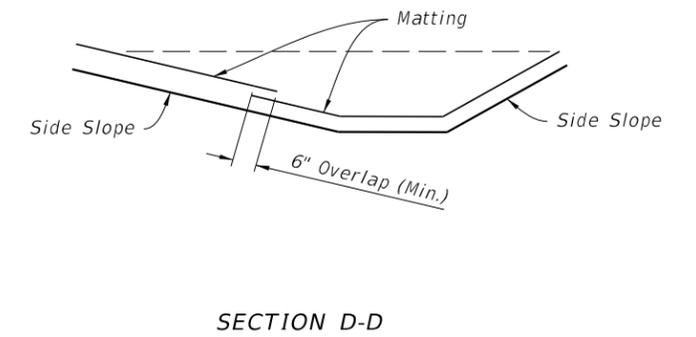
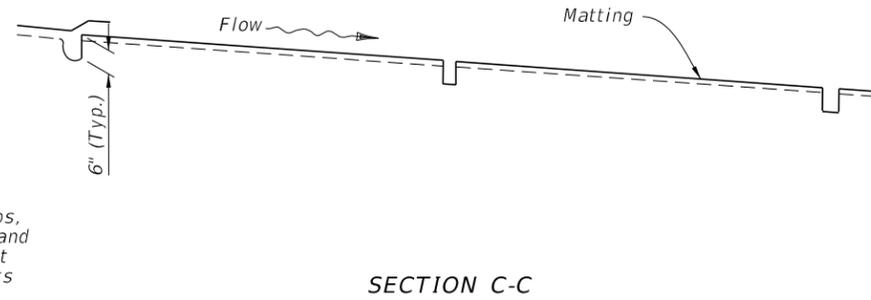
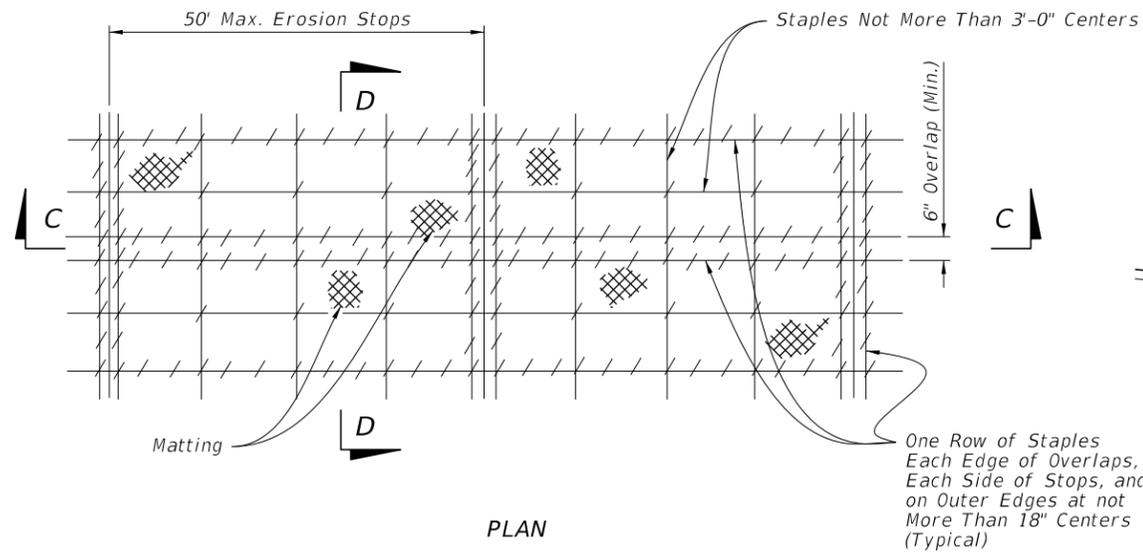


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MATTING FOR DITCH

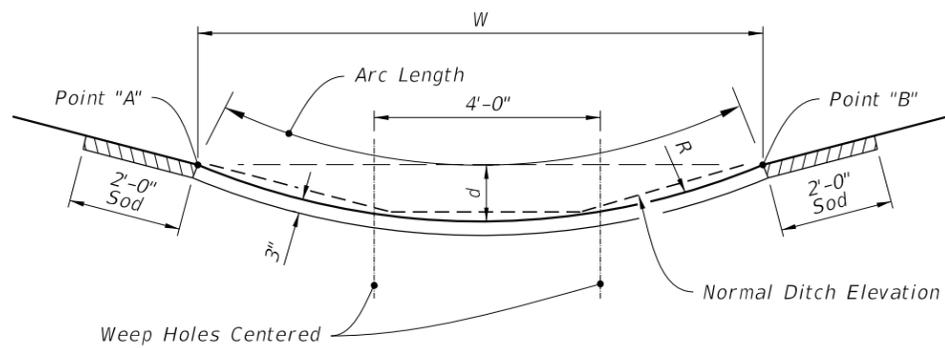
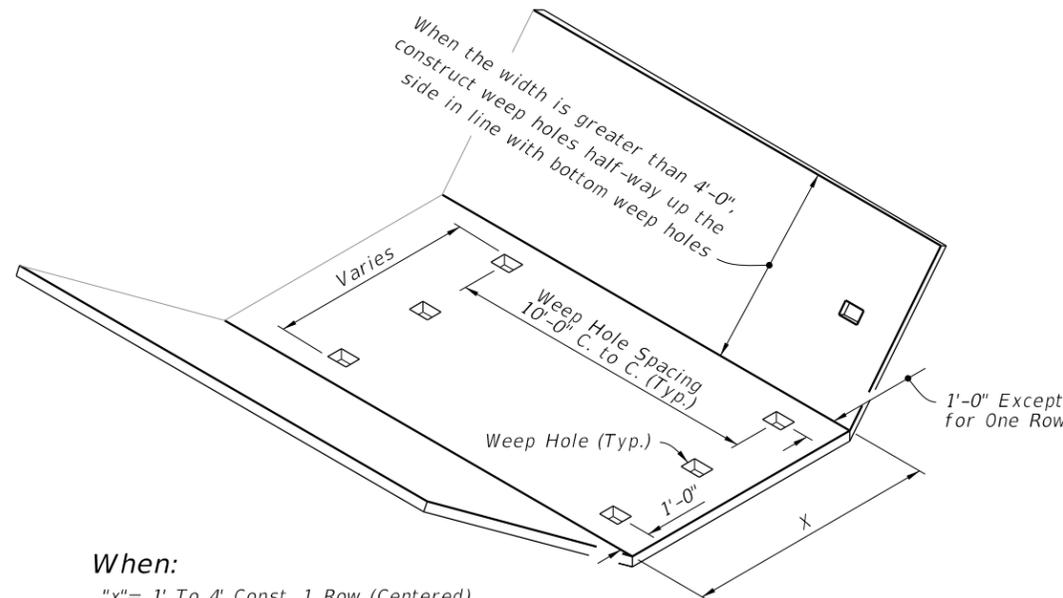


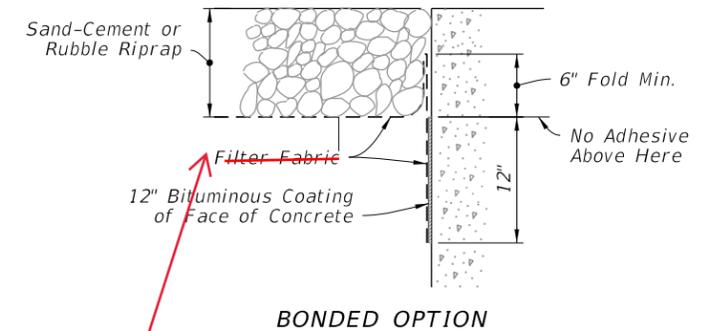
TABLE 2: ALTERNATE DITCH PAVEMENT					
TO REPLACE:	W	d	R	Rows Of Weep Holes	Arc Length
6' Median Swale	6'	0.24'	19'	0	6.0'
1:6 Front Slopes; 1:4 Back Slope					
5' Ditch Bottom Width	10'	0.67'	19'	2	10.1'
4' Ditch Bottom Width	9'	0.54'	19'	2	9.1'
1:4 Front Slopes & Back Slope					
5' Ditch Bottom Width	9'	0.74'	14'	2	9.2'
4' Ditch Bottom Width	8'	0.58'	14'	1 (in center)	8.1'

NOTE:
For use only where side slopes are 1:4 or flatter. Point "A" and "B" are at the same elevation and should be used to locate the paved section.

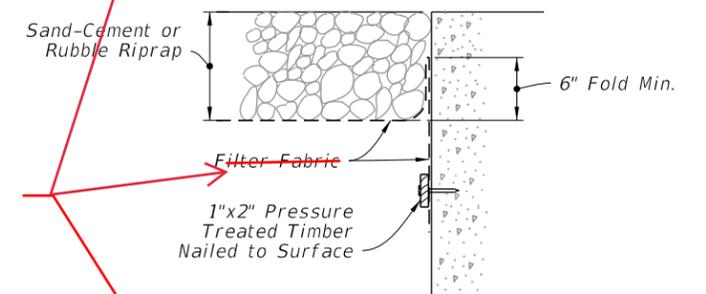


When:
 "x" = 1' To 4' Const. 1 Row (Centered)
 "x" = 5' To 7' Const. 2 Rows
 "x" = 8' To 12' Const. 3 Rows
 "x" = 13' To 17' Const. 4 Rows
 "x" = 18' To 22' Const. 5 Rows

- NOTES:**
- Construct all weep holes 3"x4" rectangle or 4" or 5" diameter circle hole. Place 1/2 cu. ft. (12" x 12" x 6") of No. 57 aggregate under each hole with 1 sq. ft. of galvanized wire mesh (1/4" openings) placed between the aggregate and the ditch pavement.
 - Rectangle weep holes shown, round weep holes similar.
 - Weep hole spacing may be reduced to 5' minimum when directed by the Engineer.



BONDED OPTION



NAILED OPTION

NOTE:
Either option may be used, unless called for in the plans.

CHANGED: Geotextile

ALTERNATE DITCH PAVEMENT

11/01/23

WEEP HOLE ARRANGEMENT

FILTER FABRIC PLACEMENT AT CONCRETE STRUCTURE

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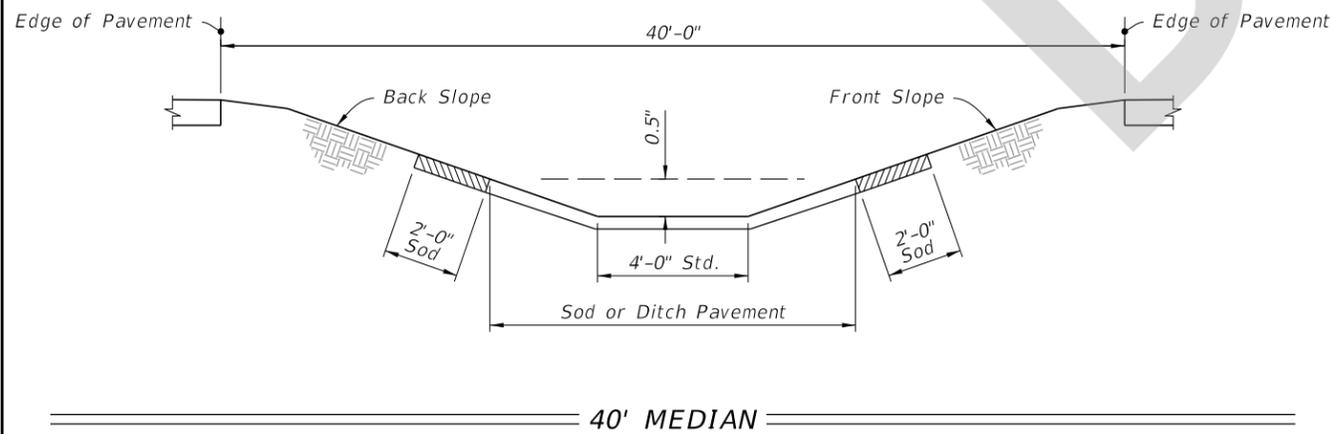
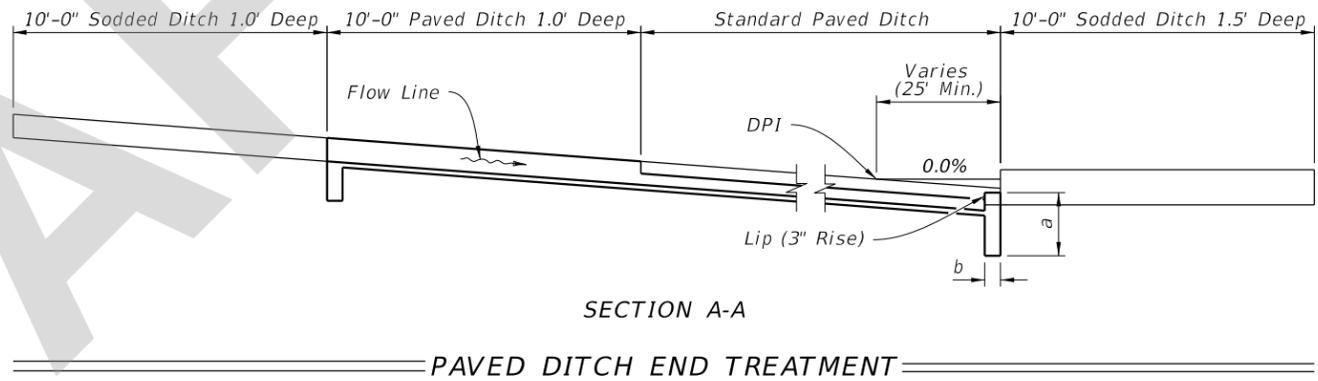
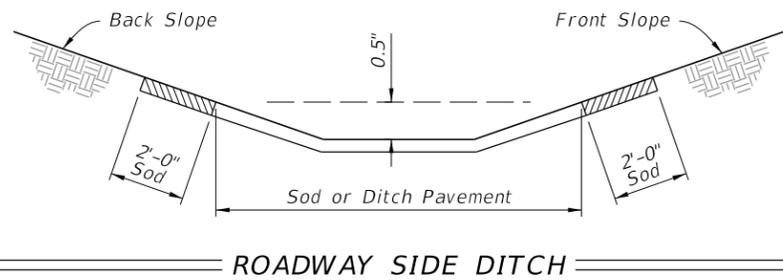
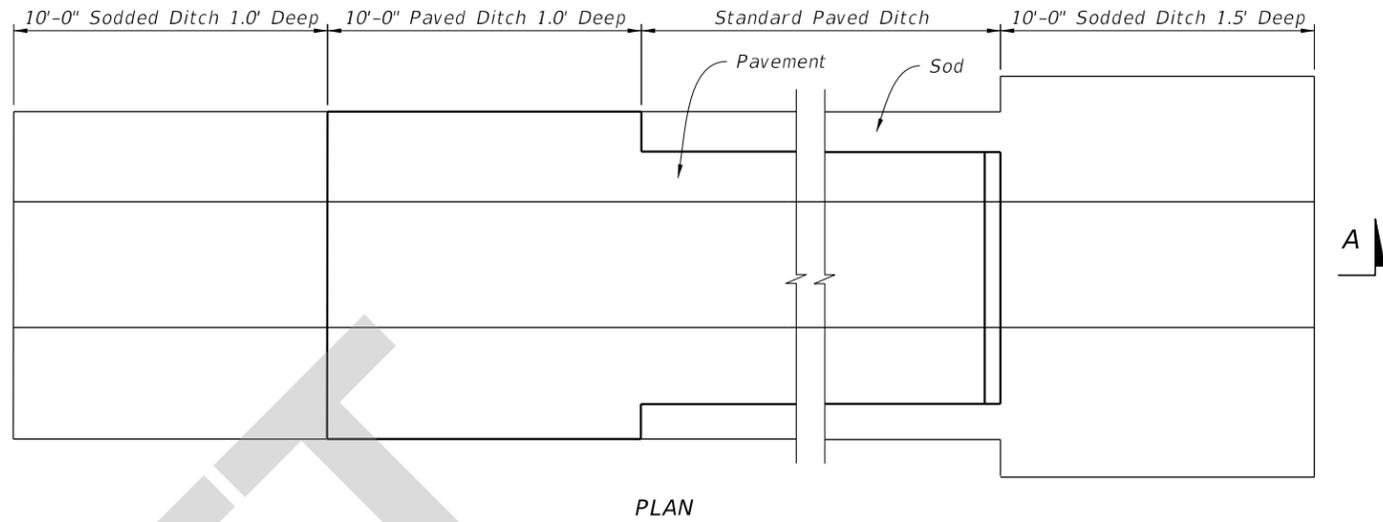
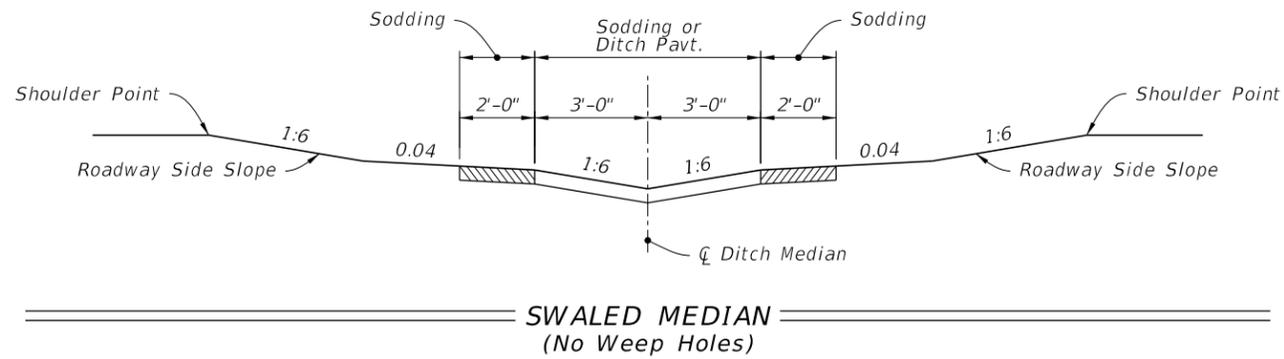


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GENERAL NOTES:

1. Install type of ditch pavement shown on Plans.
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3. Use toewalls with all ditch paving, except adjacent to drainage structures.
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6. Install ditch pavement requiring reinforcement as detailed in Plans.

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LAST REVISION 11/01/23	REVISION	DESCRIPTION:
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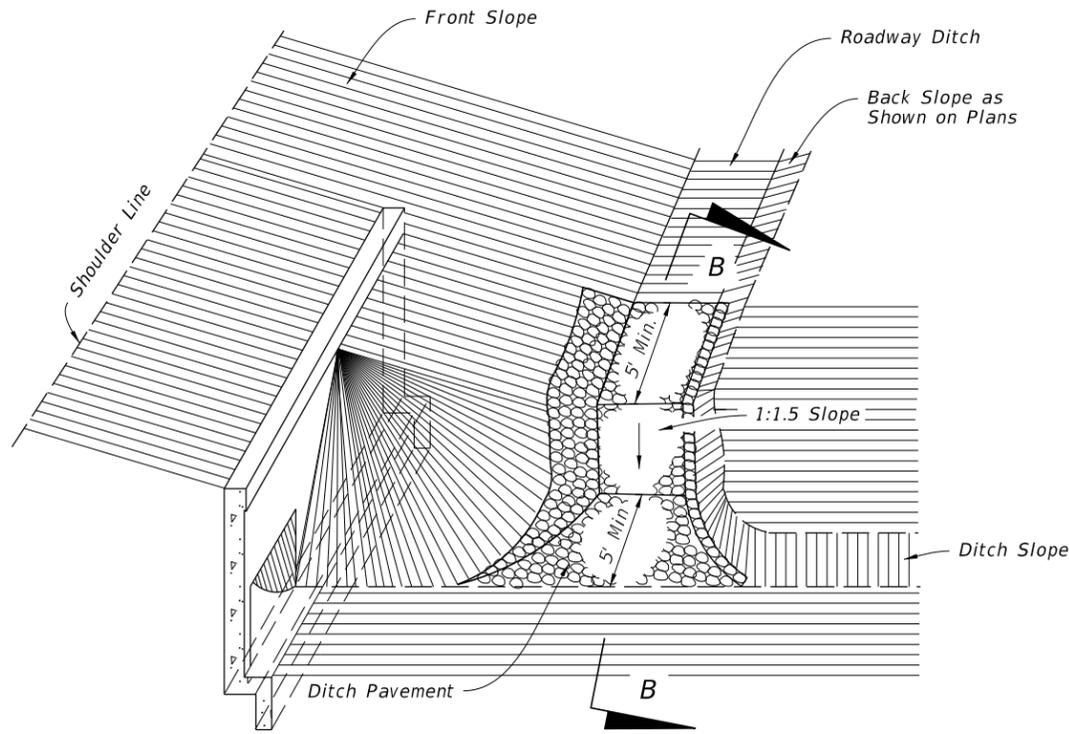


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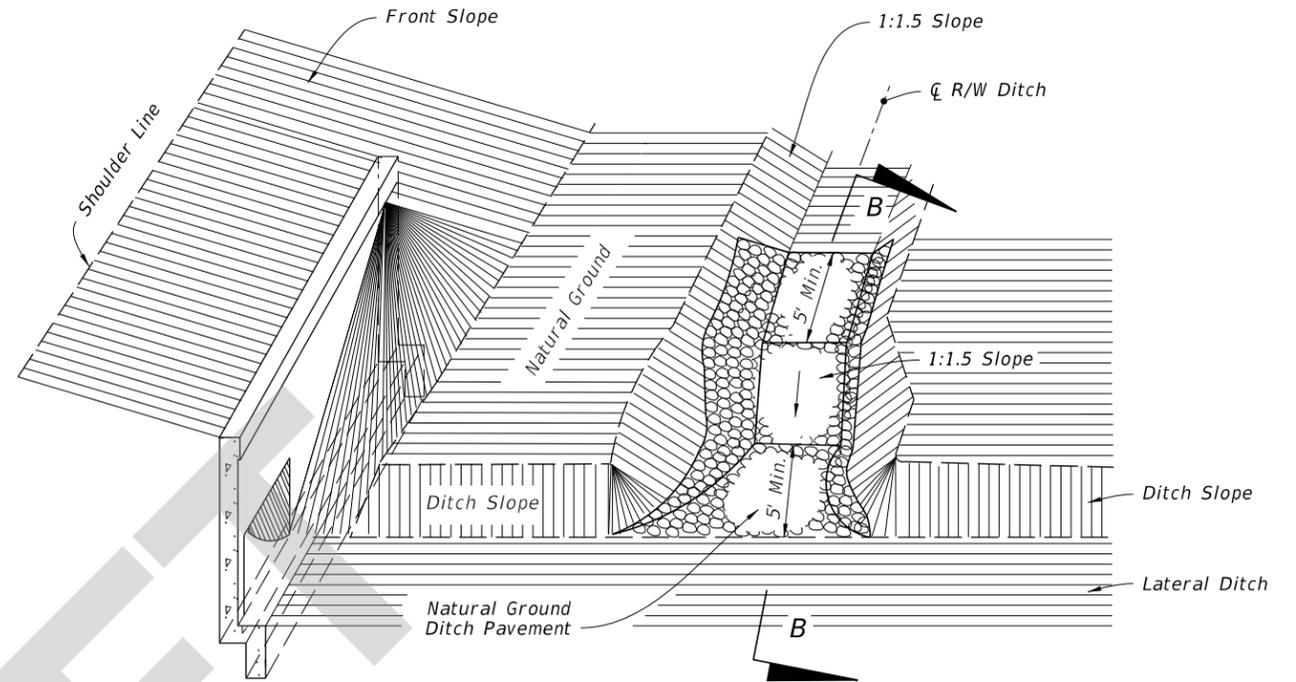
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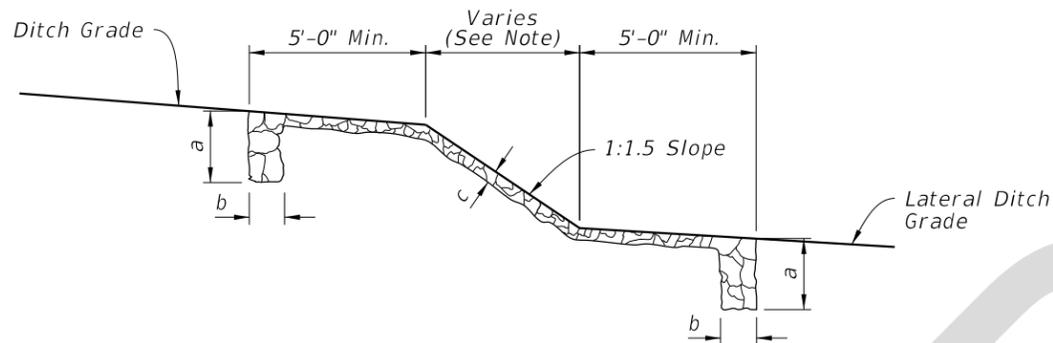
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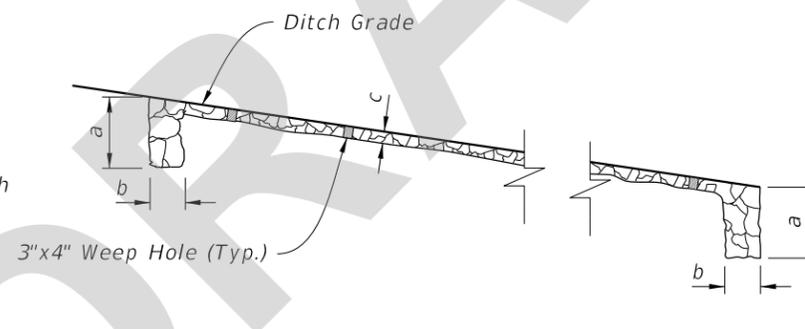
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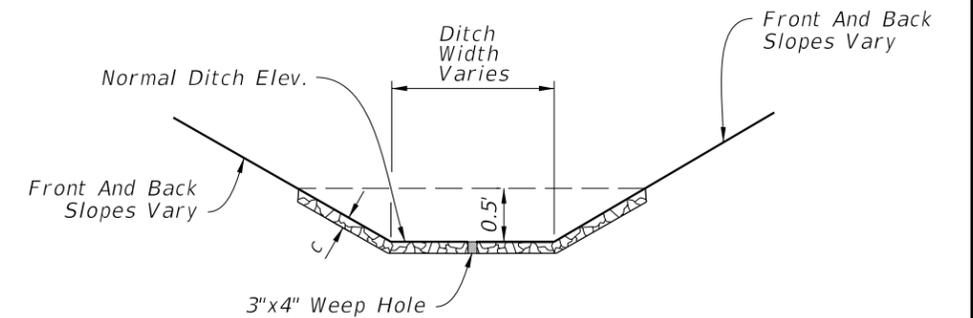


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SECTION B-B
(As Shown)



SECTION B-B
(Locations Other Than Junction with Lateral Ditch)



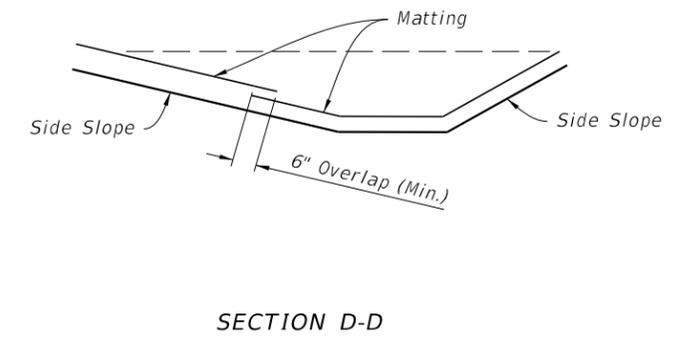
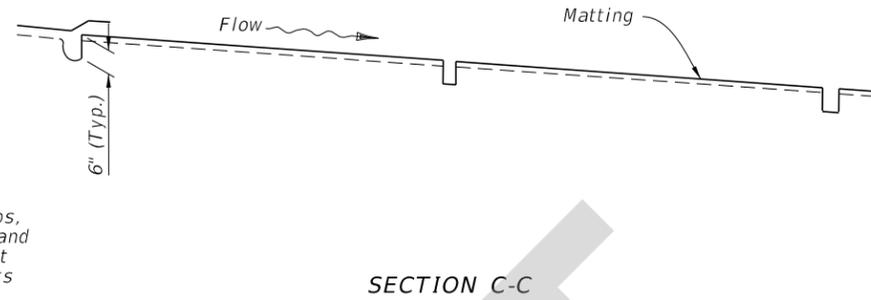
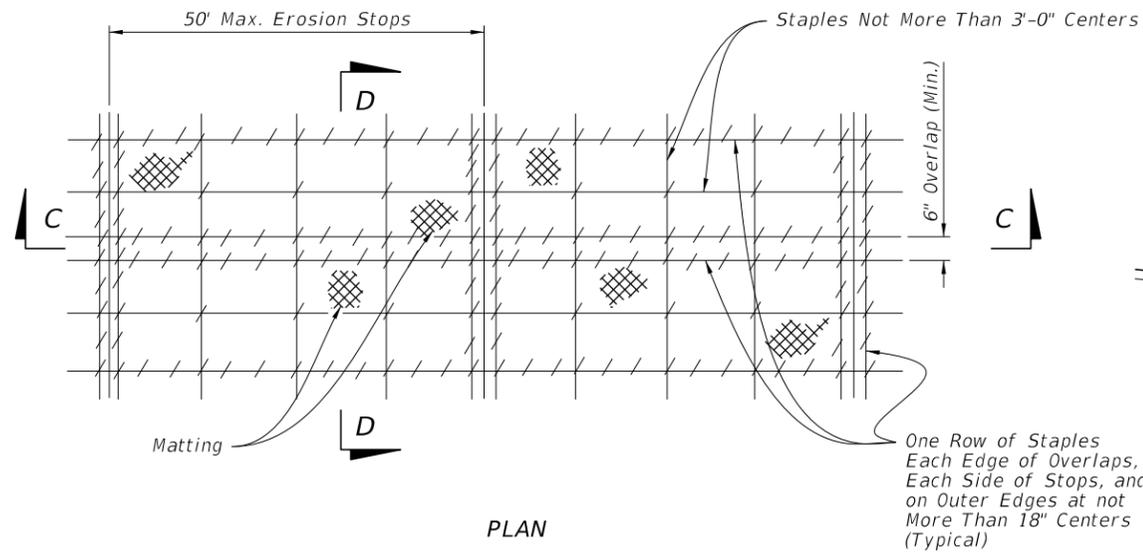
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MATTING FOR DITCH

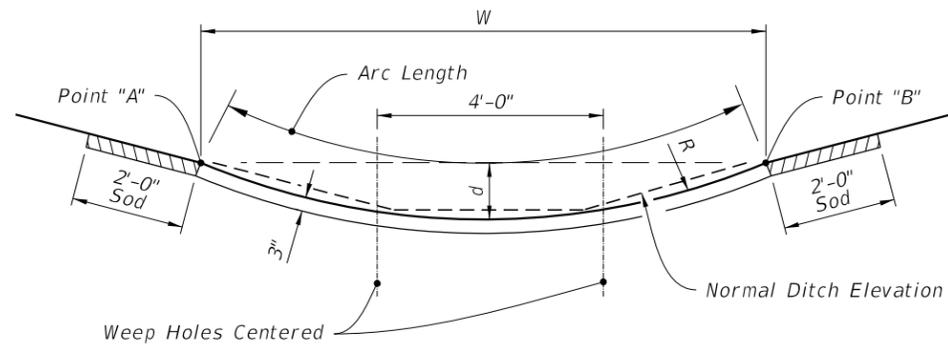
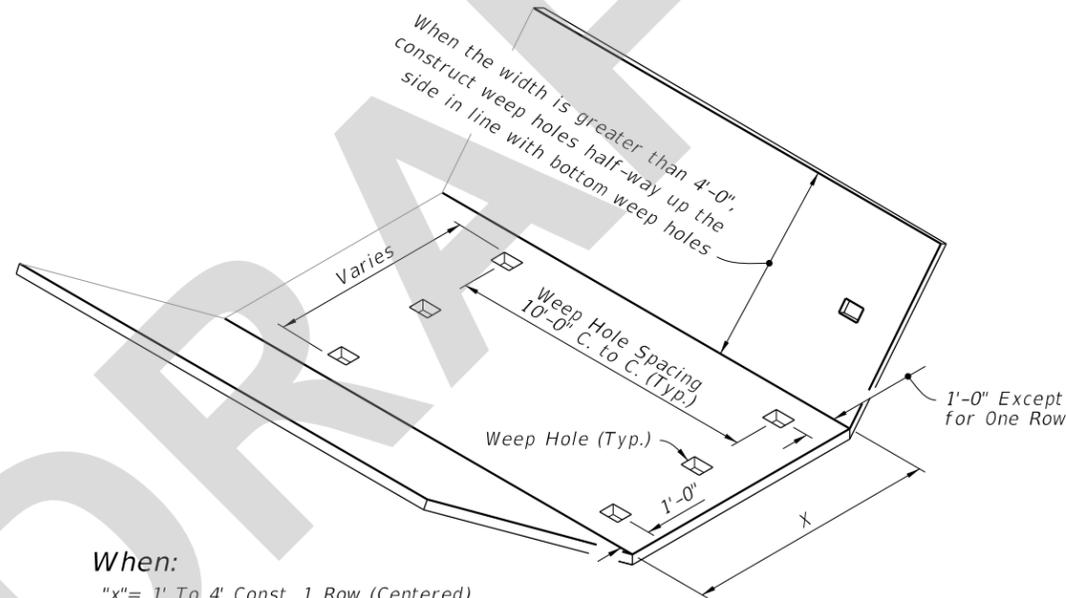


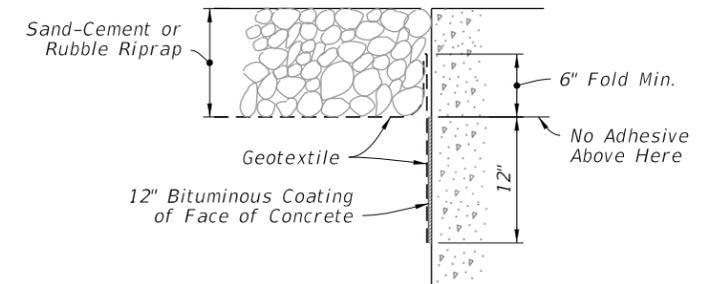
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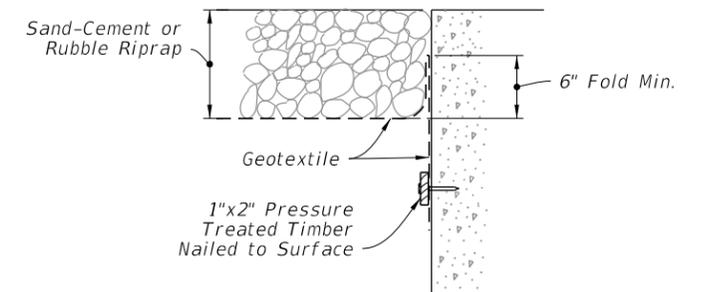


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ALTERNATE DITCH PAVEMENT

WEEP HOLE ARRANGEMENT

GEOTEXTILE PLACEMENT AT CONCRETE STRUCTURE

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