
Index 302 Traffic Separators

ORIGINATION

Date: February 16, 2017

Name: Derwood Sheppard

Phone: (850)4144334

Email: Derwood.Sheppard@dot.state.fl

COMMENTARY

All Sheets Reorganized sheets; Added MEDIAN CURB AND TRAFFIC SEPARATOR JUNCTURE DETAILS from Index 301.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **RED** = Standard Plans Response

Name: Dustin Baker

Date: Thursday, August 31, 2017 8:32 AM

COMMENT:

The proposed revision to Index 302 removed all references regarding the payment of asphalt under the Traffic Separators. Can the Department clarify how payment of flexible pavement will be paid?

RESPONSE:

Date: 9/19/17

Specification 520, Basis of Payment will be updated to ensure the payment is covered under the payment for the traffic separator.

Name: Melissa Hollis

Date: Thursday, September 7, 2017 8:44 AM

COMMENT:

Proposed sheet 5 of 5, NOTES at top right of sheet:

- Concrete
- Reinforcing steel
- Payment
- Traffic Separator Construction

Do not duplicate/conflict with specification Section 520. Notes not needed; modify 520 if minor text changes are necessary.

RESPONSE:

Date: 9/19/17

Agreed. Information will be removed.

Index 302 Traffic Separators

Name: Karina Fuentes, P.E.

Date: Monday, September 25, 2017 5:30 PM

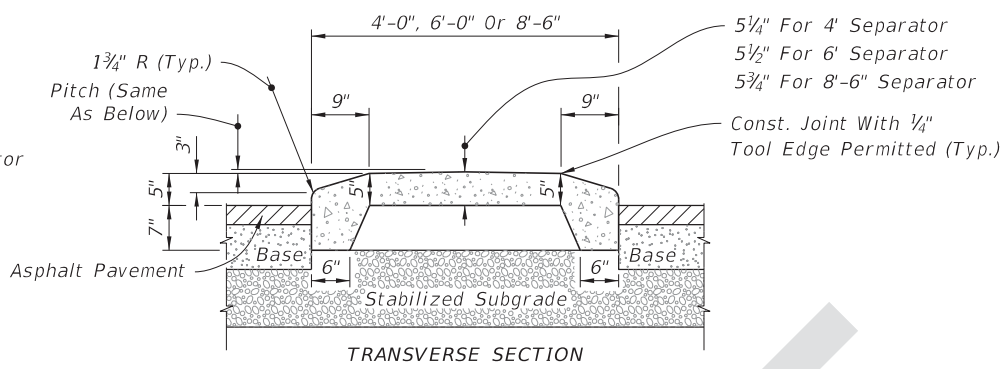
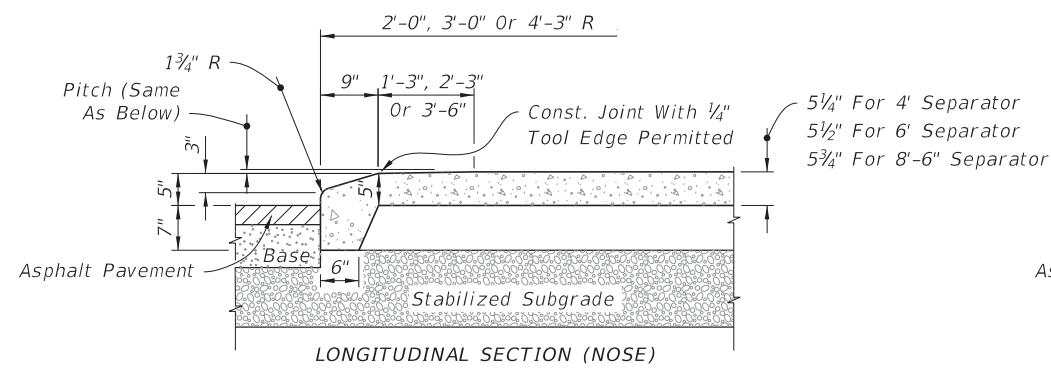
COMMENT:

1. Sheet 1 of 4, Option II, Traverse Section note “Cost Of Asphalt Pavt. And Base Under The Option II Separator Included in the cost of the separator.” Suggest to keep note or modify the specs to include this cost.
2. Sheet 1 of 4: Note 3, word adjacent is misspelled.
3. Location of Edge of Turn Lane contradicted by index 17346 (Sheet 5 of 14); placement of longitudinal pavement marking.
4. Reference for special separator was removed. District 6 uses special separator; what is the intent of removing the reference?

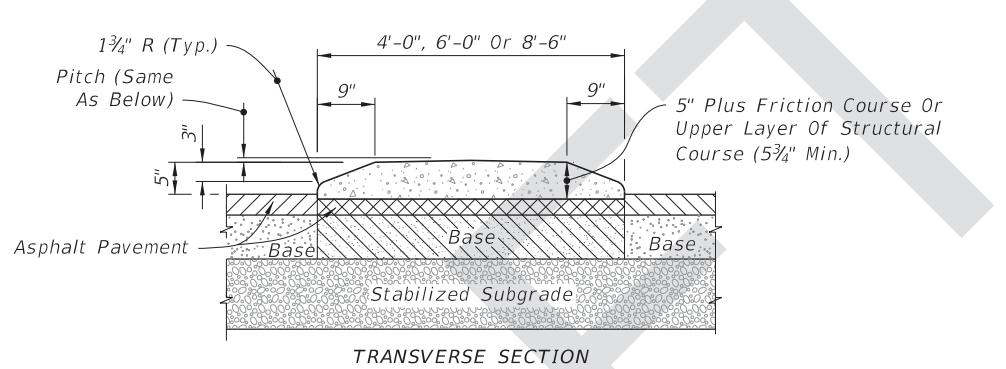
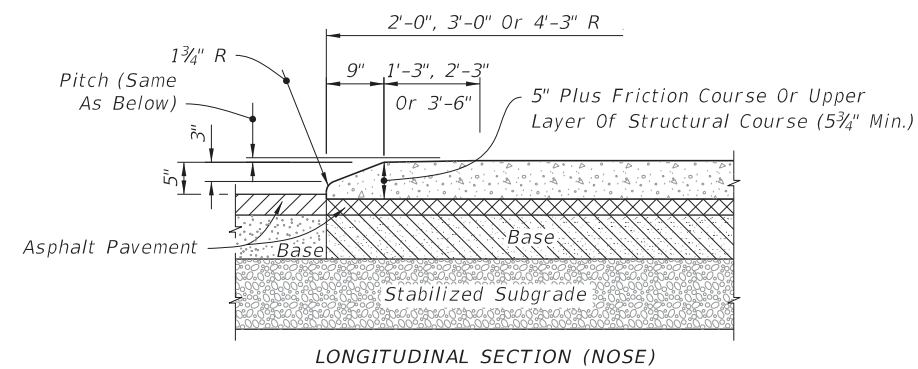
RESPONSE:

Date: 9/26/17

1. Specification 520, Basis of Payment will be updated to ensure the payment is covered under the payment for the traffic separator.
2. Agreed. Spelling error corrected.
3. Agreed. References to “Edge of Turn Lane” have been deleted.
4. The “Special Separator” note was a payment note, and as such will be covered in an update to Specification 520. Additionally, the Standard Plans Instructions have been updated to address roadway traffic separators.

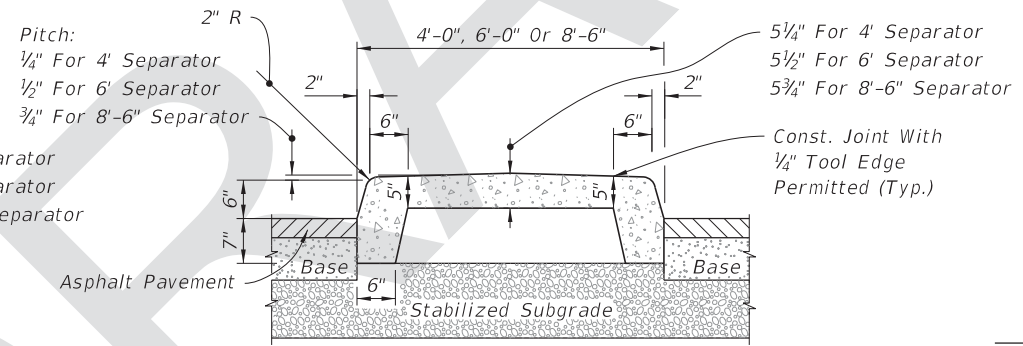
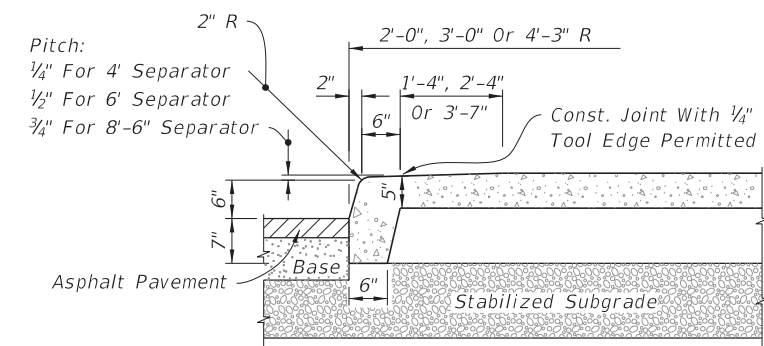


OPTION I

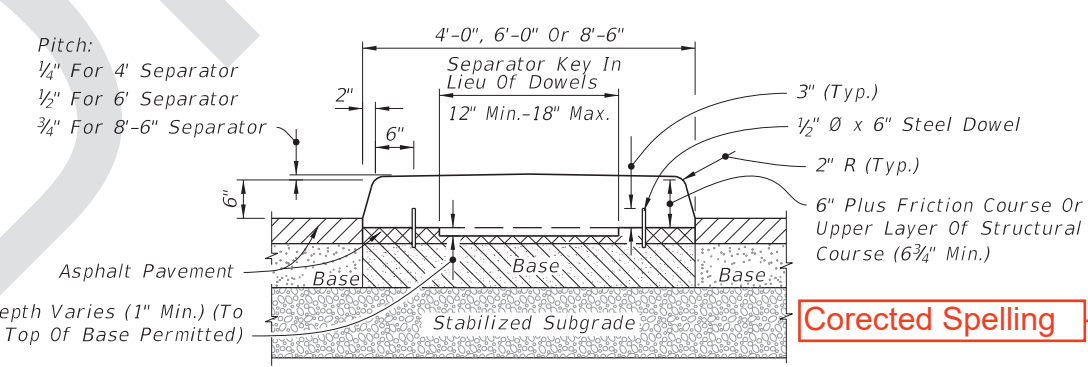
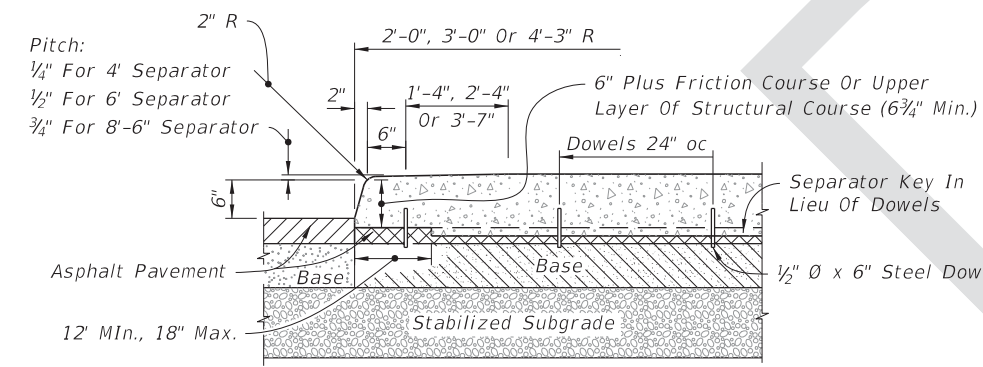


OPTION II

TYPE I - CONCRETE TRAFFIC SEPARATOR

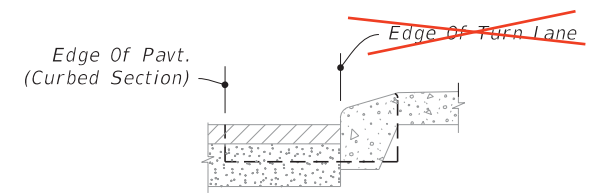


OPTION I

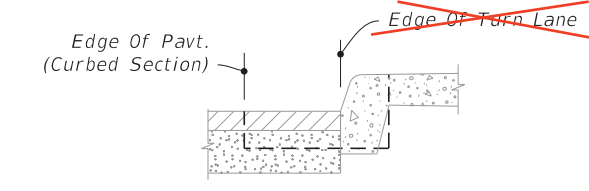


OPTION II

TYPE IV - CONCRETE TRAFFIC SEPARATOR

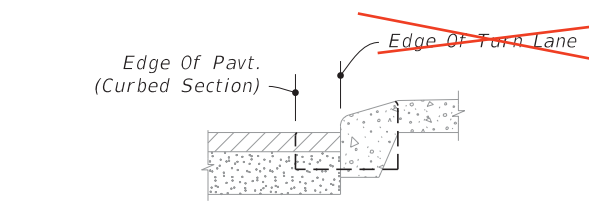


TYPE E

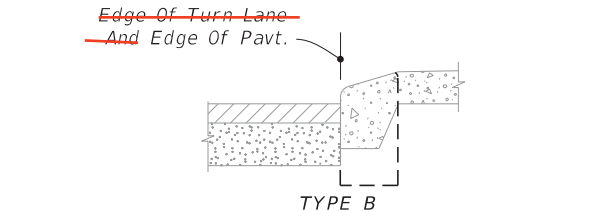


TYPE F

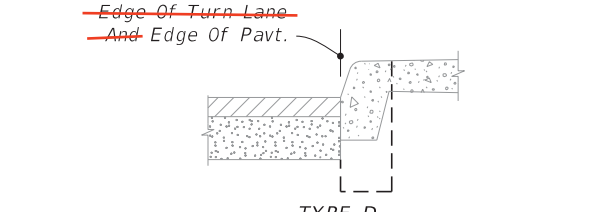
CURB AND GUTTER



TYPE A



TYPE B



TYPE D

CURB

MEDIAN CURB AND TRAFFIC SEPARATOR JUNCTURE DETAILS

(Option I Separator Shown, For Curb Details see Index 520-001)

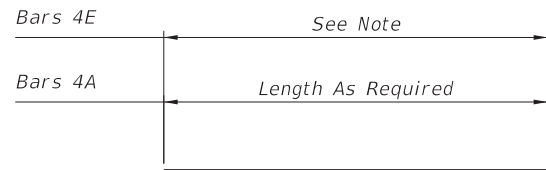
NOTES:

- Separators Type I and IV are to be used with flexible pavement. Separators Types II and V are to be used with rigid pavement.
- Either Option I or Option II may be used for Types I and IV separators except when a specific option is called for in the Plans.
- For all separators provide 1/8" - 1/4" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves to match the pavement joints, with intermediate joints not to exceed 10' center.

Corrected Spelling

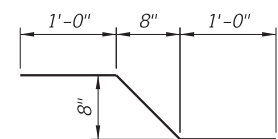
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LAST REVISION 11/01/17	DESCRIPTION:	FDOT	FY 2018-19 STANDARD PLANS	TRAFFIC SEPARATORS	INDEX 520-020	SHEET 1 of 5
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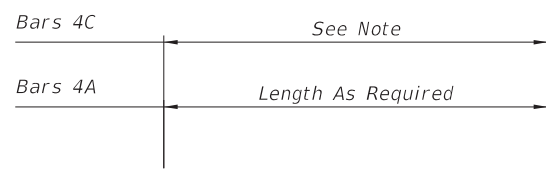
Bars 4A & 4E

NOTE:
 Length of Bars 4E is 2'-5" for 4'-0" Separator.
 Length of Bars 4E is 4'-5" for 6'-0" Separator.
 Length of Bars 4E is 6'-11" for 8'-6" Separator.



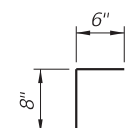
Bar 4B

OPTION I



Bars 4A & 4C

NOTE:
 Length of Bars 4C is 2'-4 1/2" for 4'-0" Separator.
 Length of Bars 4C is 4'-4 1/2" for 6'-0" Separator.
 Length of Bars 4C is 6'-10 1/2" for 8'-6" Separator.



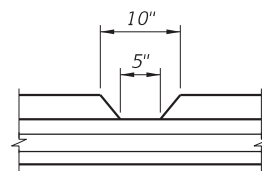
Bar 4D

OPTION II

REINFORCING STEEL NOTES:

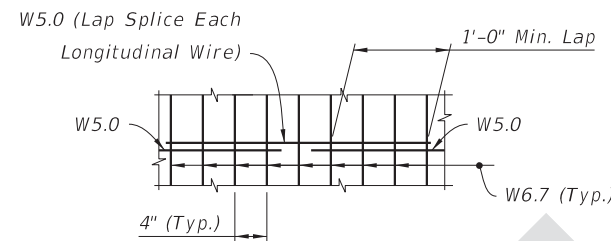
1. All dimensions are out to out.
2. The 8" vertical dimension shown for Bars 4B and 4D are based on a slab 8 1/2" thick or greater without a wearing surface. If slab thickness is less than 8 1/2", decrease this dimension by an amount equal to the difference in thickness. If a wearing surface is to be provided, increase this dimension by an amount equal to the wearing surface thickness.

CONVENTIONAL REINFORCING STEEL BENDNG DIAGRAMS



See Structures Plans, Superstructure Sheets for location(s) of drainage joints. Locations for drainage joints shall be limited to the constant width section of separator.

DRAINAGE JOINT DETAIL
 (For 5" Opening Or Less)



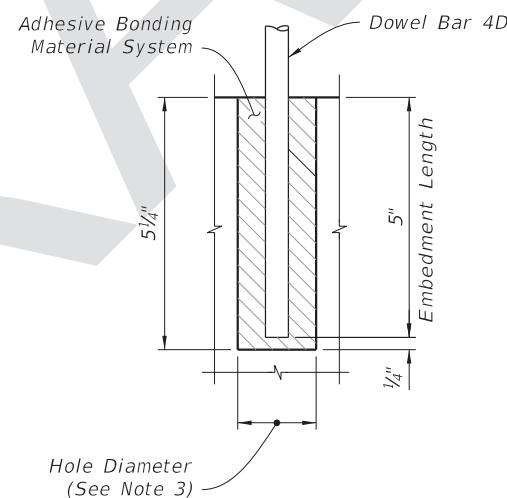
SPLICE DETAIL
 (Between WWR 3 x 4 - W5.0 x W6.7 Sections)

OPTION A: Use Welded Wire Reinforcement 3 x 4 - W5.0 x W6.7 as required by plans in place of Bars 4A, 4B and 4E. Bend the Welded Wire Reinforcement to the dimensions of Bar 4B shown in the Bending Diagram for Reinforcing Steel Option I.

OPTION B: Use Welded Wire Reinforcement 3 x 4 - W5.0 x W6.7 as required by plans in place of Bars 4A and 4C shown in Reinforcing Steel Option II.

NOTE: Welded Wire Reinforcement to consist of smooth wire meeting the requirements of Specification Section 931.

ALTERNATE REINFORCING STEEL DETAILS
 (Welded Wire Reinforcement)



DOWEL NOTES:

1. Shift Dowel Holes to clear if existing reinforcement is encountered.
2. Provide and install an adhesive bonding material system in accordance with Sections 416 and 937 of the Specifications.
3. The dowel hole diameter is to meet adhesive bonding material system manufacture's requirements.

DOWEL DETAIL

NOTES:

CONCRETE:

See General Notes in Structures Plans.

REINFORCING STEEL:

Reinforcing Steel shall be ASTM A615 Grade 60.

PAYMENT:

Separators having widths of 4'-0", 6'-0", and 8'-6" shall be paid under the contract unit price for Traffic Separator Concrete (Type II or V) (___' Wide), LF. Separators having widths other than 4'-0", 6'-0", or 8'-6" shall be detailed as special separators and paid under the contract unit price for Traffic Separator Concrete (Special), S.Y.

TRAFFIC SEPARATOR CONSTRUCTION:

The Contractor may construct the separator by the use of stationary removable forms or by the use of slip forms without altering the separator dimensions shown. 1/2" V-GROOVES: For all separators provide 1/2" V-Grooves at 30'-0" centers (max.) equally spaced between expansion joints, and/or drainage joints.

ESTIMATED TRAFFIC SEPARATOR QUANTITIES:

CONCRETE:

CONSTANT WIDTH OF SEPARATOR:

	TYPE "E"	TYPE "F"
4'-0" Width	= 0.056 CY per Ft.	= 0.072 CY per Ft.
6'-0" Width	= 0.089 CY per Ft.	= 0.112 CY per Ft.
8'-6" Width	= 0.132 CY per Ft.	= 0.164 CY per Ft.

NOSE:

	TYPE "E"	TYPE "F"
4'-0" Width	= 0.080 CY	= 0.109 CY
6'-0" Width	= 0.193 CY	= 0.257 CY
8'-6" Width	= 0.403 CY	= 0.536 CY

REINFORCING STEEL:

(All quantities are based on an 8 1/2" slab.)

OPTION I:

4'-0" Width	= 6.37 Lbs. per Ft.
6'-0" Width	= 8.60 Lbs. per Ft.
8'-6" Width	= 11.05 Lbs. per Ft.

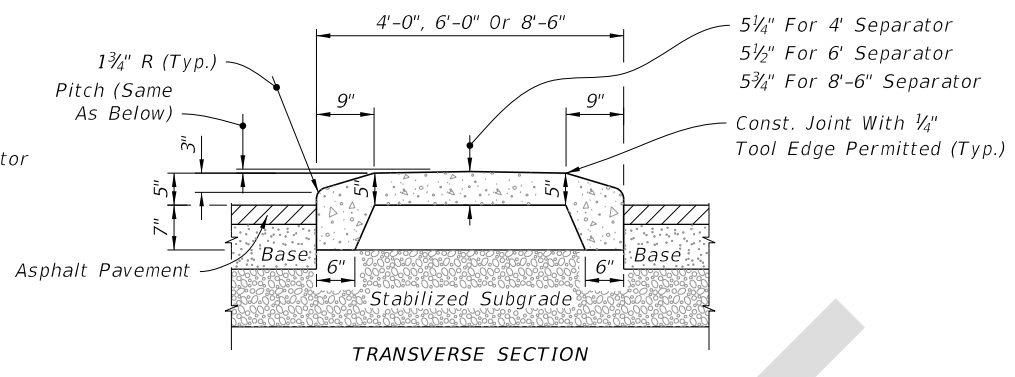
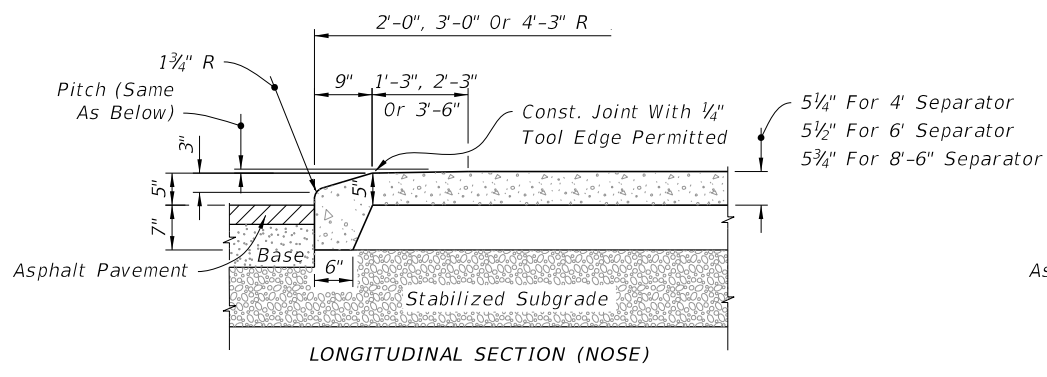
OPTION II:

4'-0" Width	= 4.77 Lbs. per Ft.
6'-0" Width	= 7.00 Lbs. per Ft.
8'-6" Width	= 9.45 Lbs. per Ft.

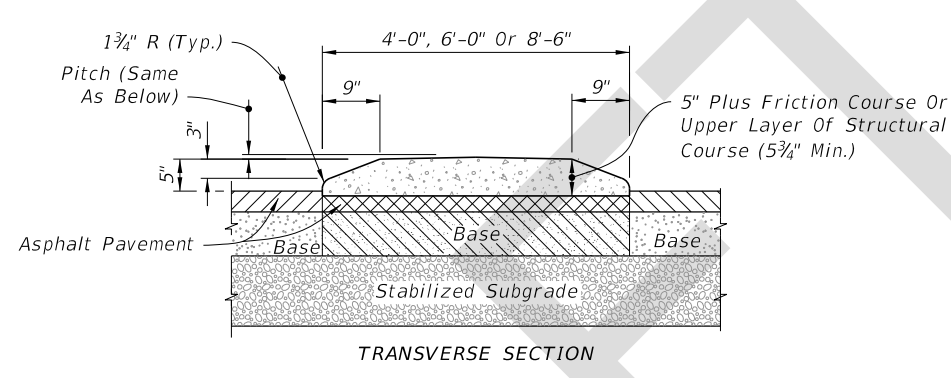
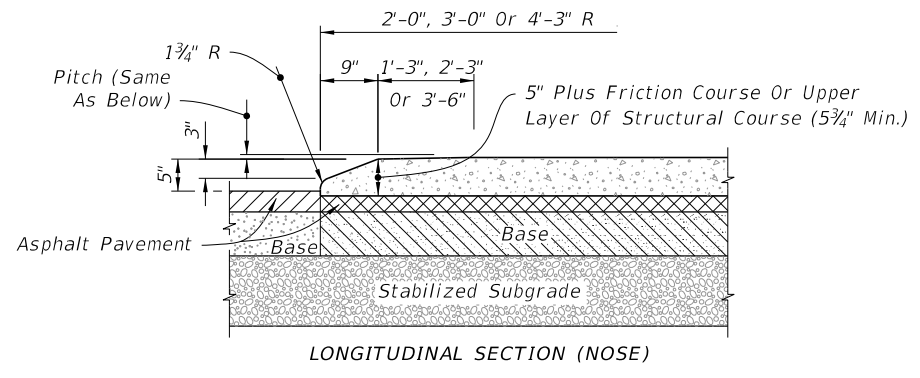
BRIDGE INSTALLATIONS - TYPE "E" AND "F" CURB

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LAST REVISION	DESCRIPTION:
11/01/17	

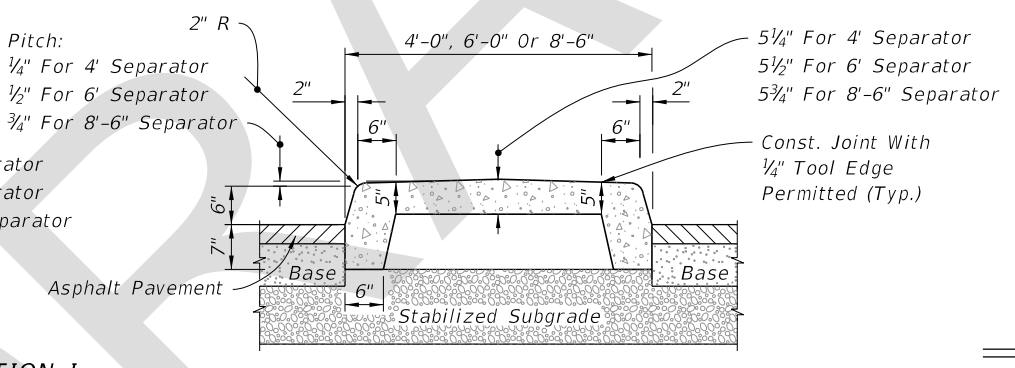
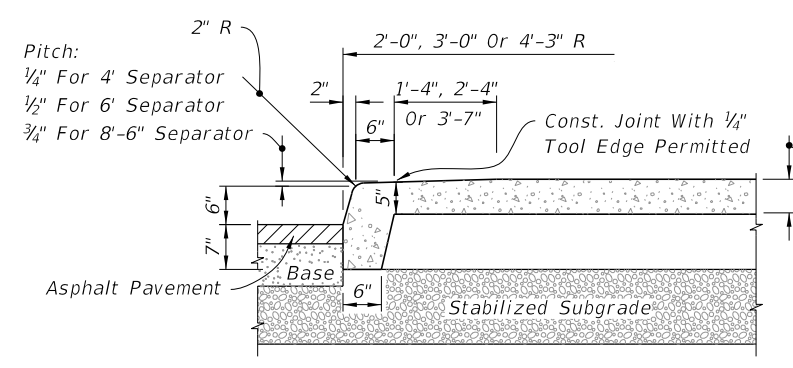


OPTION I

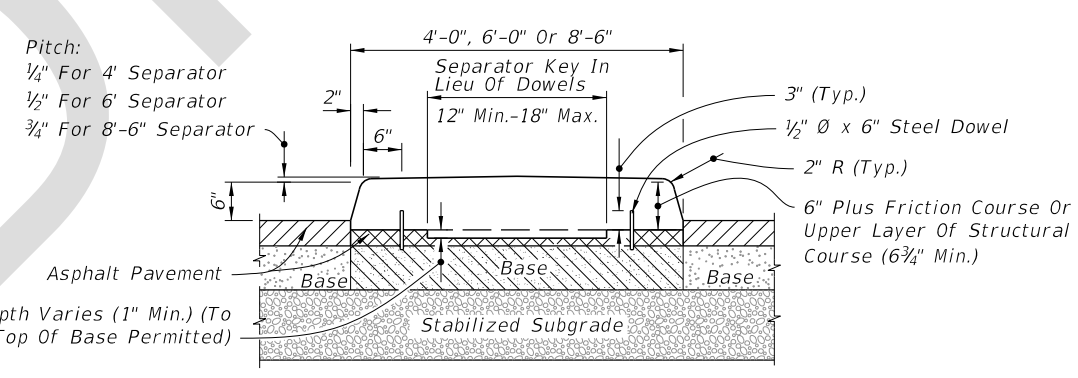
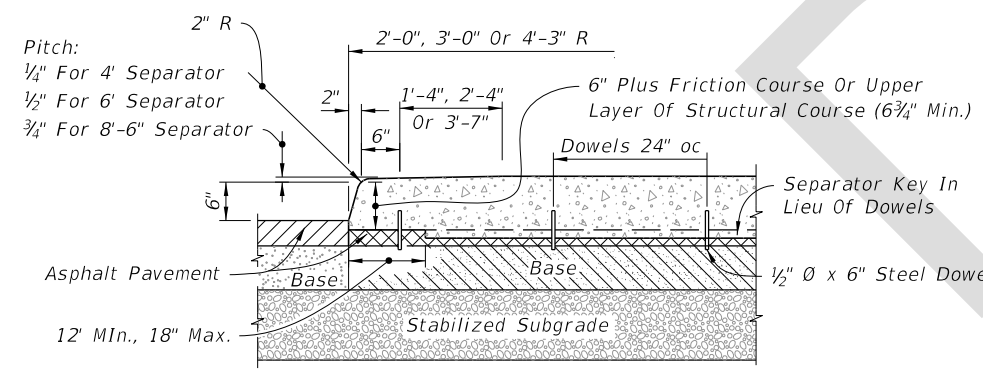


OPTION II

TYPE I - CONCRETE TRAFFIC SEPARATOR

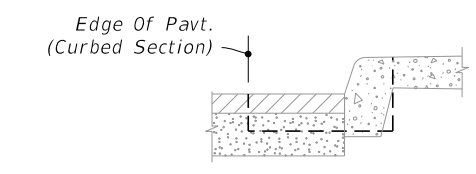
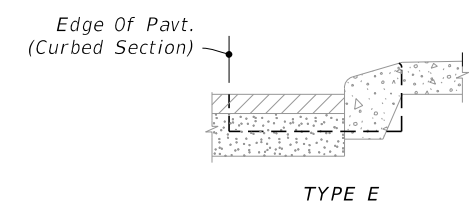


OPTION I

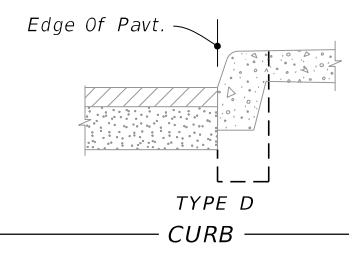
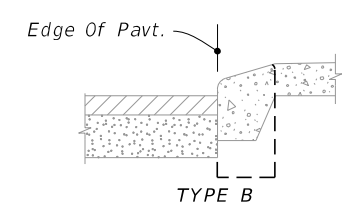
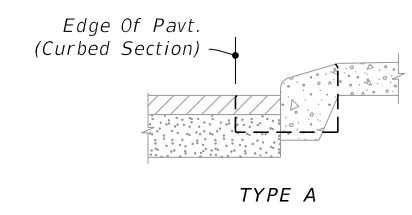


OPTION II

TYPE IV - CONCRETE TRAFFIC SEPARATOR



CURB AND GUTTER



MEDIAN CURB AND TRAFFIC SEPARATOR JUNCTURE DETAILS

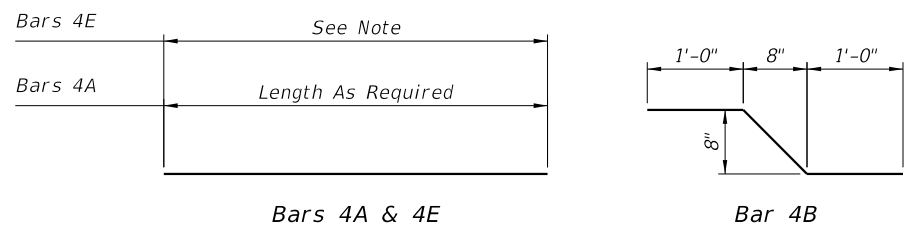
(Option I Separator Shown, For Curb Details see Index 520-001)

NOTES:

- Separators Type I and IV are to be used with flexible pavement. Separators Types II and V are to be used with rigid pavement.
- Either Option I or Option II may be used for Types I and IV separators except when a specific option is called for in the Plans.
- For all separators provide 1/8" - 1/4" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves to match the pavement joints, with intermediate joints not to exceed 10' center.

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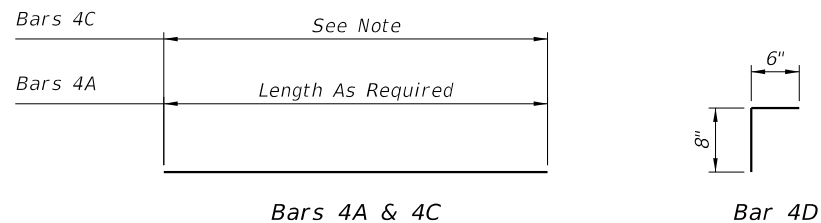
Bars 4A & 4E

Bar 4B

NOTE:

Length of Bars 4E is 2'-5" for 4'-0" Separator.
 Length of Bars 4E is 4'-5" for 6'-0" Separator.
 Length of Bars 4E is 6'-11" for 8'-6" Separator.

OPTION I



Bars 4A & 4C

Bar 4D

NOTE:

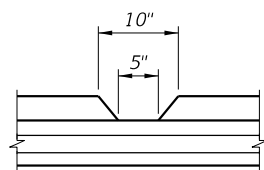
Length of Bars 4C is 2'-4½" for 4'-0" Separator.
 Length of Bars 4C is 4'-4½" for 6'-0" Separator.
 Length of Bars 4C is 6'-10½" for 8'-6" Separator.

OPTION II

REINFORCING STEEL NOTES:

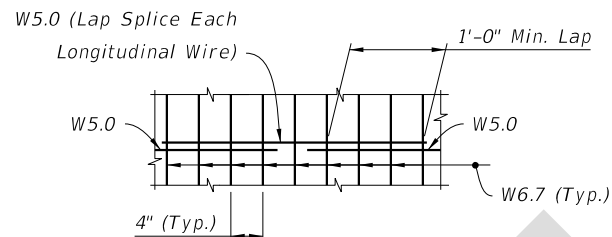
- All dimensions are out to out.
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CONVENTIONAL REINFORCING STEEL BENDNG DIAGRAMS



See Structures Plans, Superstructure Sheets for location(s) of drainage joints. Locations for drainage joints shall be limited to the constant width section of separator.

**DRAINAGE JOINT DETAIL
 (For 5" Opening Or Less)**



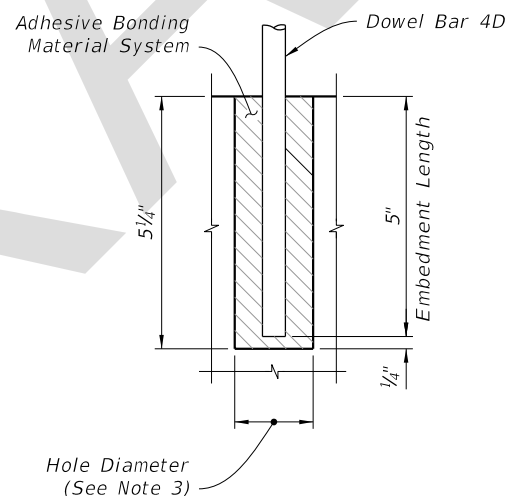
SPLICE DETAIL
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OPTION B: Use Welded Wire Reinforcement 3 x 4 - W5.0 x W6.7 as required by plans in place of Bars 4A and 4C shown in Reinforcing Steel Option II.

NOTE: Welded Wire Reinforcement to consist of smooth wire meeting the requirements of Specification Section 931.

**ALTERNATE REINFORCING STEEL DETAILS
 (Welded Wire Reinforcement)**



DOWEL NOTES:

- Shift Dowel Holes to clear if existing reinforcement is encountered.
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DOWEL DETAIL

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BRIDGE INSTALLATIONS - TYPE "E" AND "F" CURB

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LAST REVISION	DESCRIPTION:
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FY 2018-19
 STANDARD PLANS

TRAFFIC SEPARATORS

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