

# ORIGINATION FORM

Proposed Revisions to a Design Standards Index  
(Please provide all information – Incomplete forms will be returned)

## Contact Information:

Date: February 16, 2017  
Originator: **Derwood Sheppard**  
Phone: (850) 414-4334  
Email: Derwood.Sheppard@dot.state.fl

## Design Standards:

Index Number: **302**  
Sheet Number (s): ALL  
Index Title: Traffic Separators

## Summary of the changes:

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

## Commentary / Background:

### Other Affected Offices / Documents: (Provide name of responsible personnel)

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Design Standards –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Plans Preparation Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standard Specifications –
<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 –

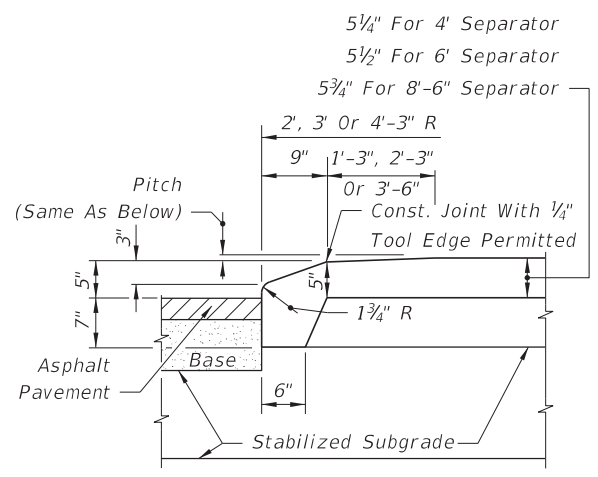
### Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Proposed IDS
<input type="checkbox"/>	<input type="checkbox"/>	Revised IDS
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

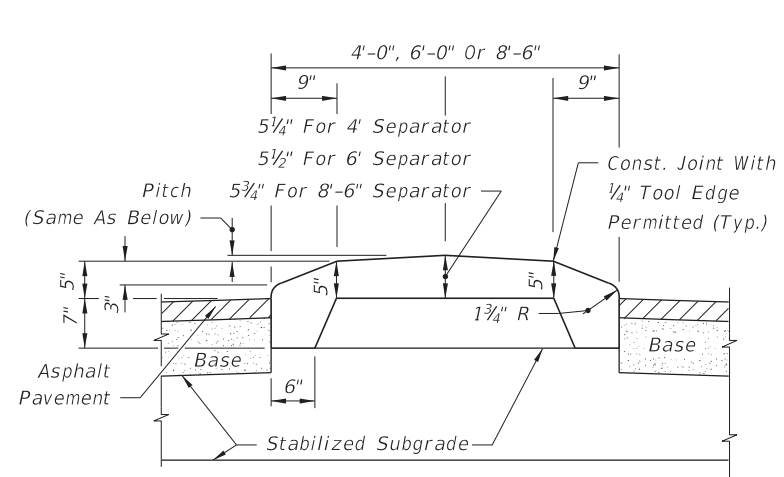
## Implementation:

Design Bulletin (DSR)     DCE Memo     Program Mgmt. Bulletin     Design Standards e-Booklet (Next Release)

————— Contact the Roadway Design Office for assistance in completing this form —————

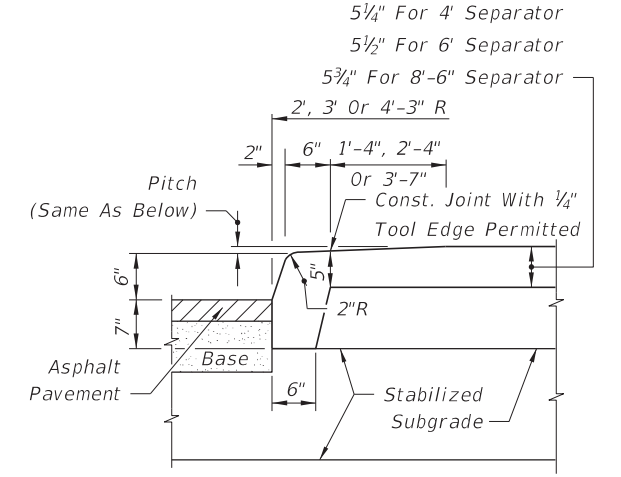


LONGITUDINAL SECTION (NOSE)



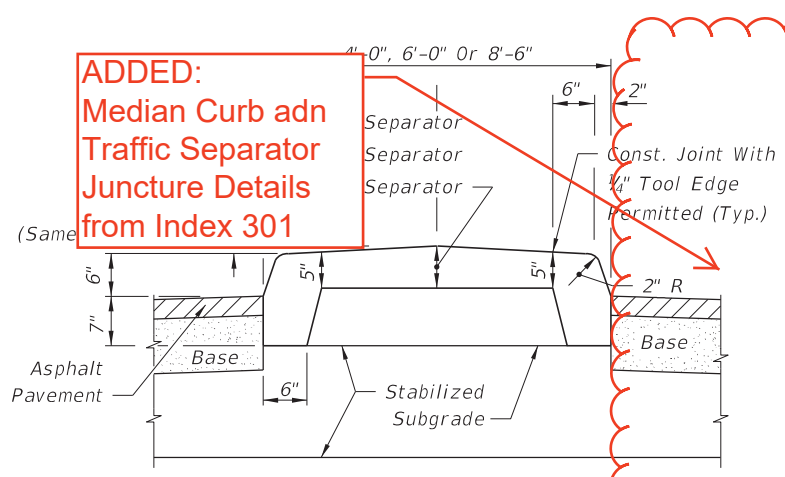
TRANSVERSE SECTION

OPTION I



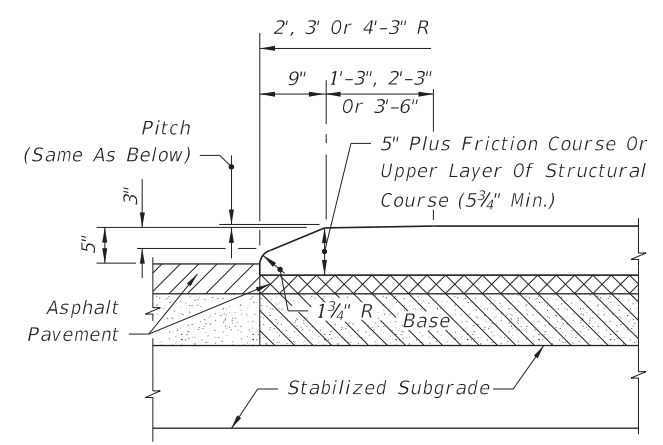
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OPTION I

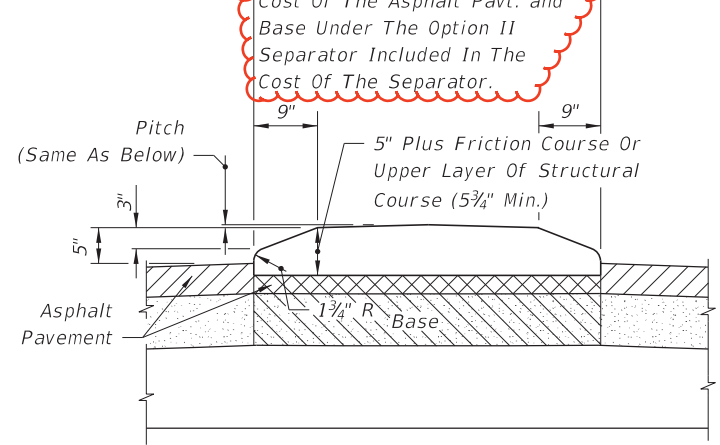


TRANSVERSE SECTION

ADDED: Median Curb and Traffic Separator Juncture Details from Index 301



LONGITUDINAL SECTION (NOSE)



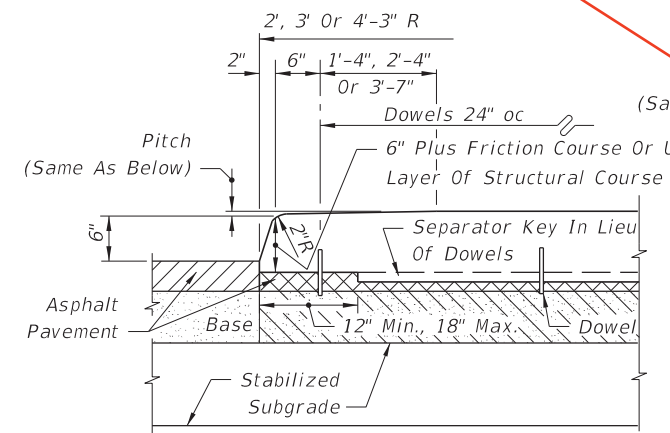
TRANSVERSE SECTION

OPTION II

TYPE I CONCRETE TRAFFIC SEPARATOR

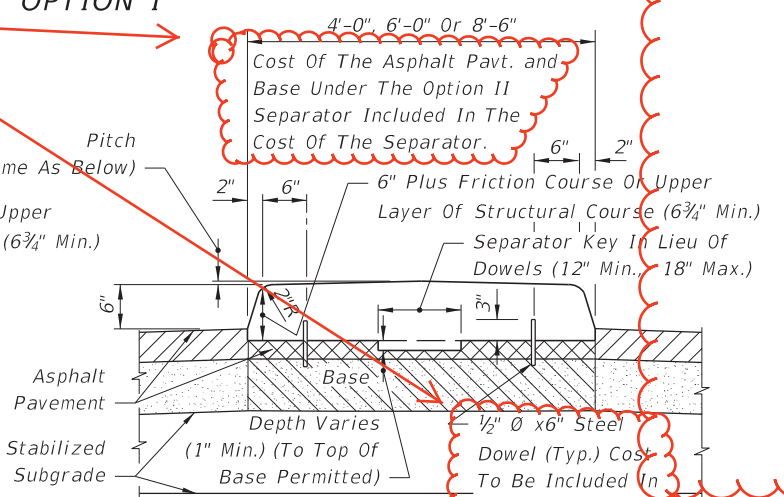
Cost Of The Asphalt Pavt. and Base Under The Option II Separator Included In The Cost Of The Separator.

DELETED



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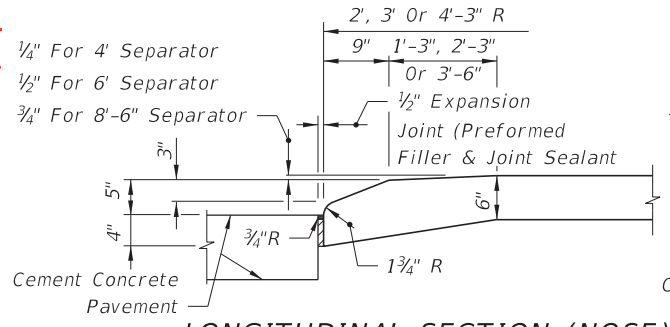
OPTION II



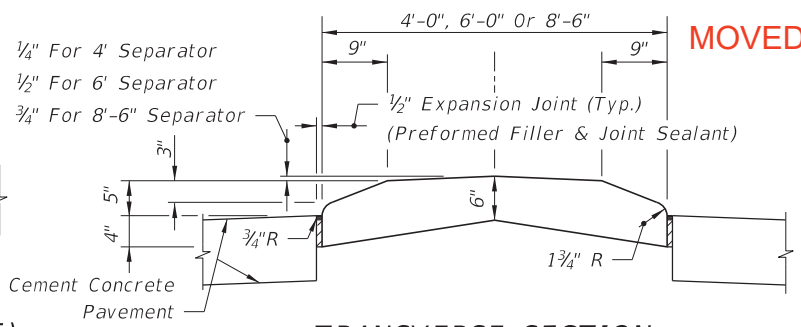
TRANSVERSE SECTION

TYPE IV CONCRETE TRAFFIC SEPARATOR

MOVED TO NEW SHEET 2

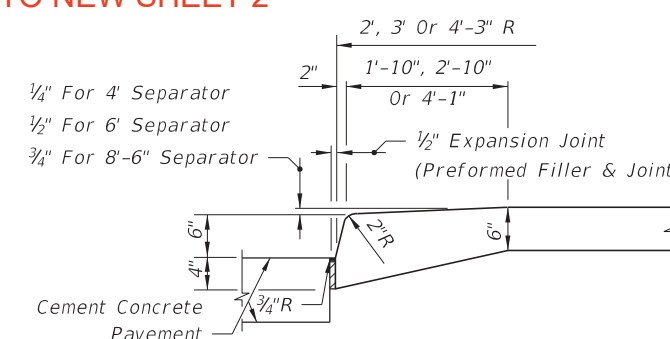


LONGITUDINAL SECTION (NOSE)

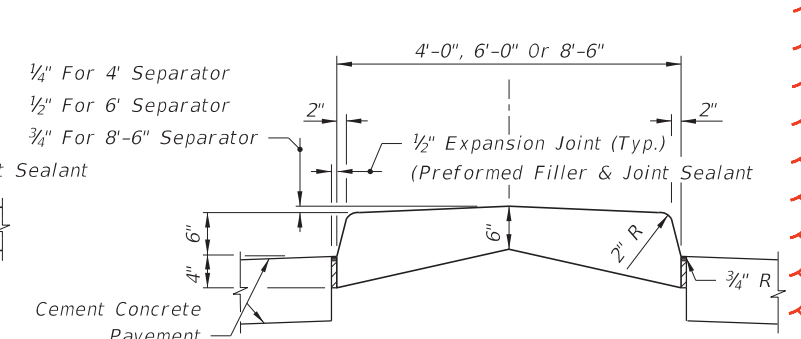


TRANSVERSE SECTION

TYPE II CONCRETE TRAFFIC SEPARATOR



LONGITUDINAL SECTION (NOSE)



TRANSVERSE SECTION

TYPE V CONCRETE TRAFFIC SEPARATOR

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 are to match the pavement joints, with intermediate joints not to
- Separators having widths of 4', 6' or 8'-6" shall be paid for under the contract unit price for Concrete Traffic Separator (Type\_) (L' Wide) LF. Separators having widths other than 4', 6' or 8'-6" shall be detailed in the plans as special separators and paid for under the contract unit price for Concrete Traffic Separator (Special) SF.

Changed Notes

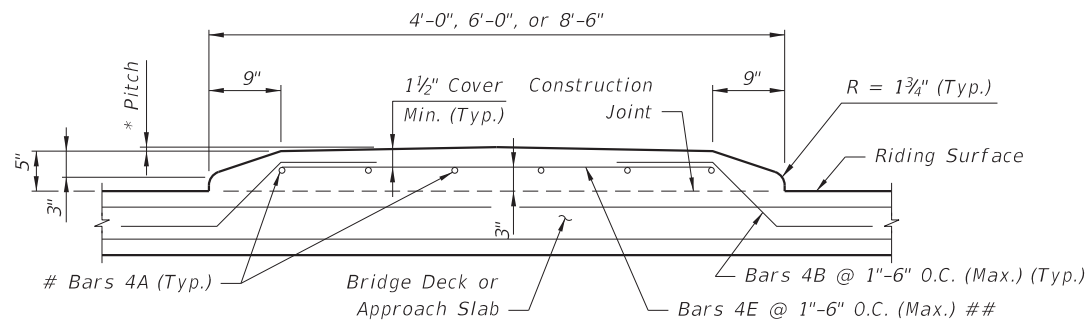
1 OF 5

ROADWAY INSTALLATIONS

LAST REVISION 07/01/14	REVISION 11/01/17	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	TRAFFIC SEPARA	All Sheets: 520-020	INDEX NO. 302	SHEET NO. 1 of 4
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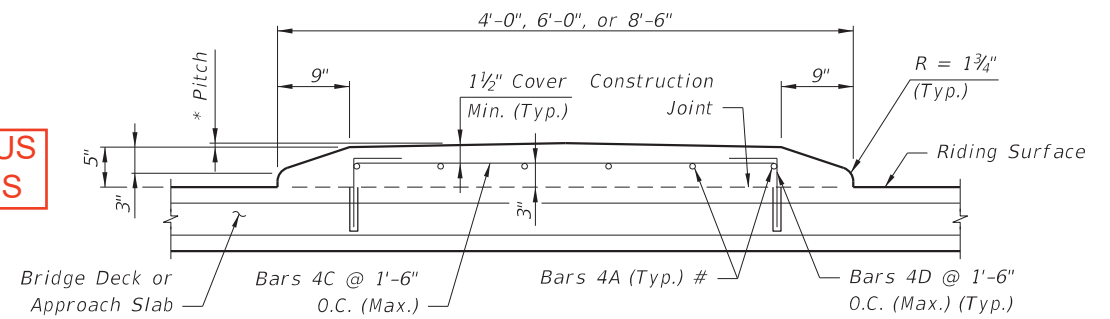
# NEW SHEET

ROADWAY INSALLATIONS - RIGID PAVEMENT

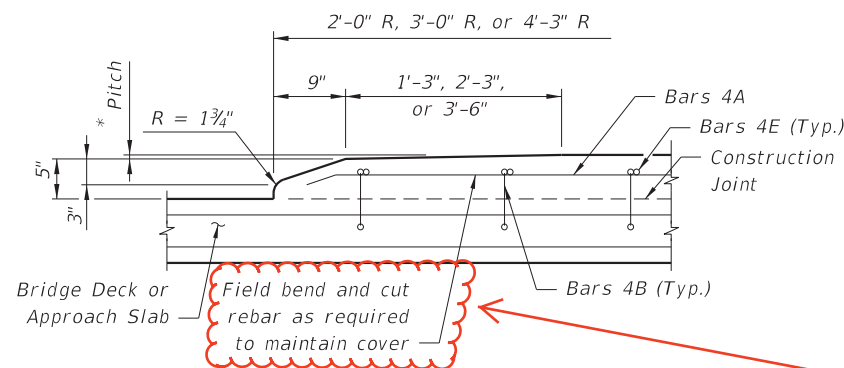


TYPICAL SECTION THRU TRAFFIC SEPARATOR  
(Bridge Deck Shown, Approach Slab Similar)

REORIGINIZED TO MATCH PREVIOUS SHEETS AND UPDATED THE NOTES



TYPICAL SECTION THRU TRAFFIC SEPARATOR  
(Bridge Deck Shown, Approach Slab Similar)

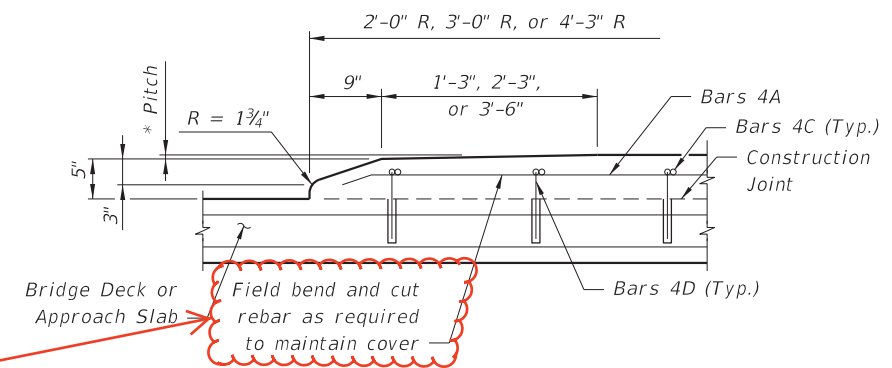


LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE  
(Bridge Deck Shown, Approach Slab Similar)

# For 4'-0" width: Bars 4A @ 3 equal spaces (continuous).  
For 6'-0" width: Bars 4A @ 5 equal spaces (continuous).  
For 8'-6" width: Bars 4A @ 7 equal spaces (continuous).  
## At the Contractor's option a one piece bar may be substituted for Bars 4B and 4E.

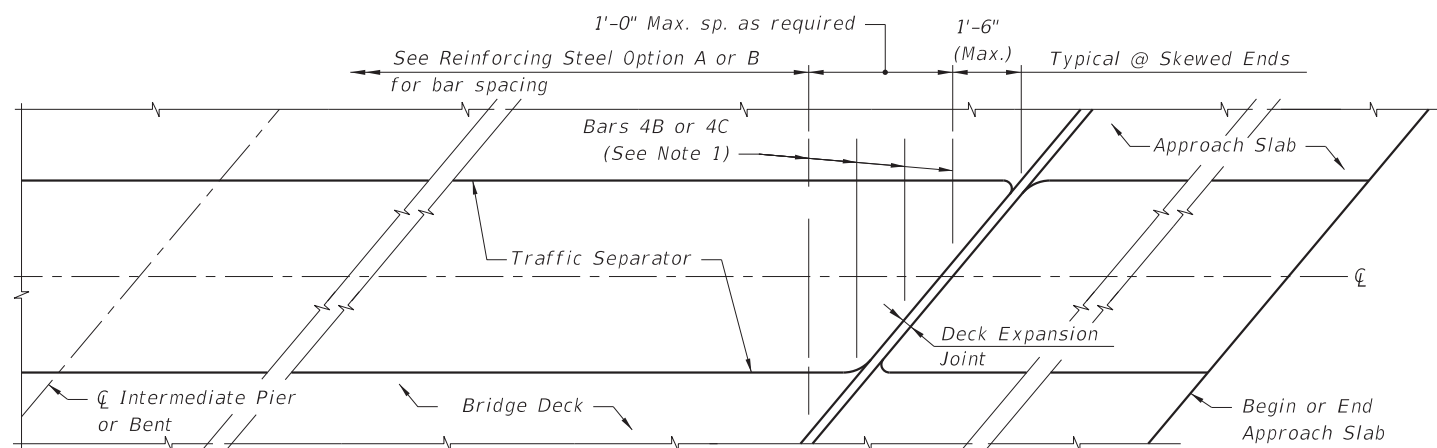
\* Pitch: 1/4" For 4'-0" Separator  
1/2" For 6'-0" Separator  
3/4" For 8'-6" Separator

Moved to NOTES:



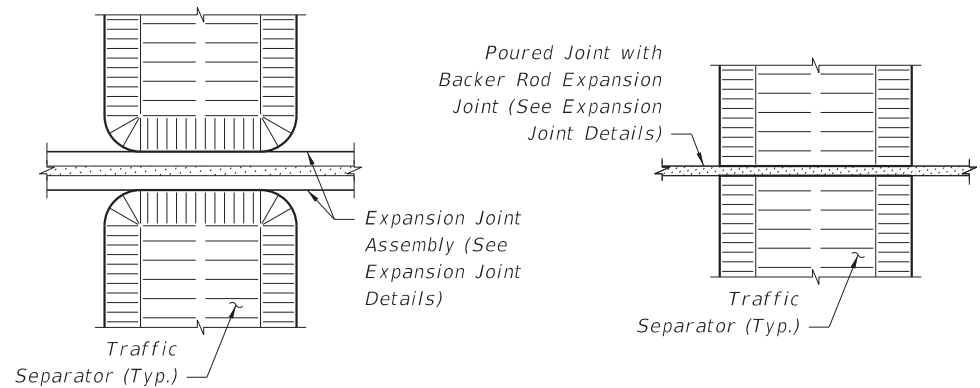
LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE  
(Bridge Deck Shown, Approach Slab Similar)

REINFORCING STEEL OPTION A



PARTIAL PLAN VIEW OF SKEWED BRIDGE DECK AND APPROACH SLAB WITH TRAFFIC SEPARATOR  
(Deck Expansion Joint at Begin or End Bridge Shown, Expansion Joint at  $\bar{C}$  Pier or Intermediate Bents Similar)

REINFORCING STEEL OPTION B (NOT PERMITTED ON BRIDGE DECKS WITH PRESTRESSING STEEL)



DETAIL AT EXPANSION JOINTS  
(Strip Seal Shown, Other Armored Joint Types Similar)

DETAIL AT POURED JOINT WITH BACKER ROD EXPANSION JOINTS

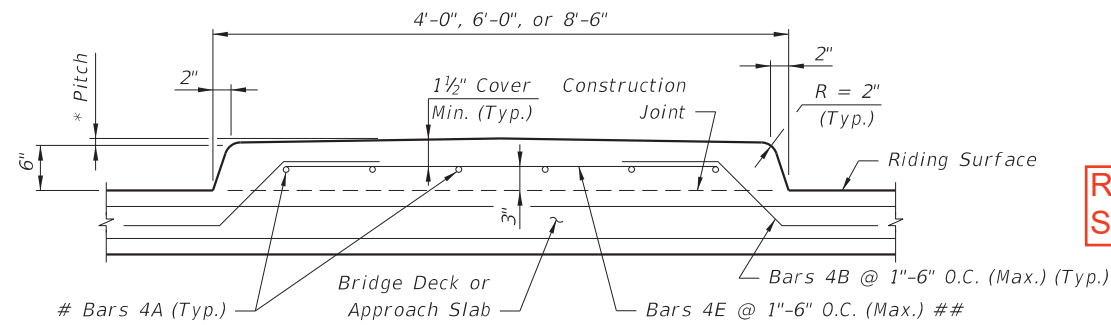
- Notes:
- Traffic Separator transverse reinforcement adjacent to deck expansion joints shall be field adjusted to maintain clearance and spacing. Bars shall be field cut as shown, bars may be rotated to maintain clearance.
  - Traffic Separator ends at deck expansion joints shall follow the deck joint limits. Drainage joints and 1/2" V-Grooves shall be placed perpendicular or radial to the  $\bar{C}$  of the Traffic Separator. See Structures Plans, Superstructure and Approach Slab Sheets for details.
  - See Structures Plans, Superstructure Sheets for actual dimensions and joint orientation.

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BRIDGE INSTALLATIONS - TYPE "E" CURB

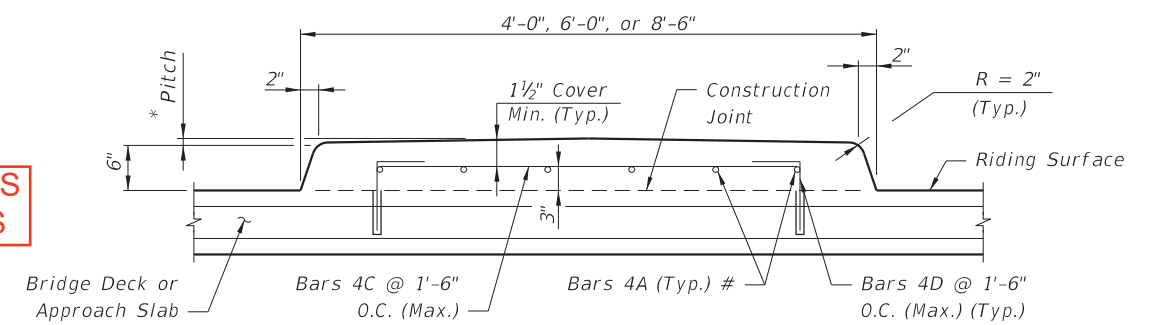
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LAST REVISION 01/01/11	DESCRIPTION: 11/01/17	FDOT FY 2017-18 DESIGN STANDARDS	TRAFFIC SEPARATORS	INDEX NO. 302	SHEET NO. 2 OF 4
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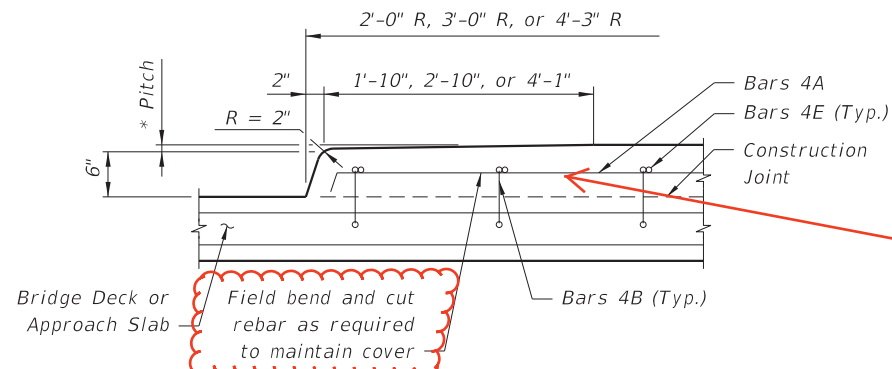


TYPICAL SECTION THRU TRAFFIC SEPARATOR  
(Bridge Deck Shown, Approach Slab Similar)

REORIGINIZED TO MATCH PREVIOUS SHEETS AND UPDATED THE NOTES



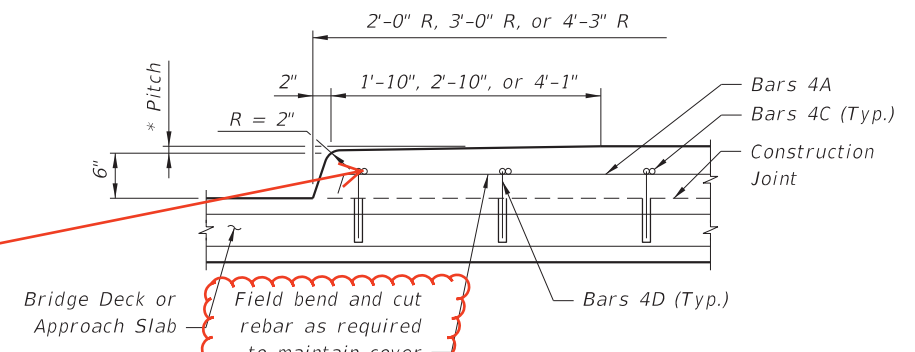
TYPICAL SECTION THRU TRAFFIC SEPARATOR  
(Bridge Deck Shown, Approach Slab Similar)



LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE  
(Bridge Deck Shown, Approach Slab Similar)

# For 4'-0" width: Bars 4A @ 3 equal spaces (continuous)  
For 6'-0" width: Bars 4A @ 5 equal spaces (continuous)  
For 8'-6" width: Bars 4A @ 7 equal spaces (continuous)  
## At the Contractor's option a one piece bar may be substituted for Bars 4B and 4E.  
\* Pitch: 1/4" For 4'-0" Separator  
1/2" For 6'-0" Separator  
3/4" For 8'-6" Separator

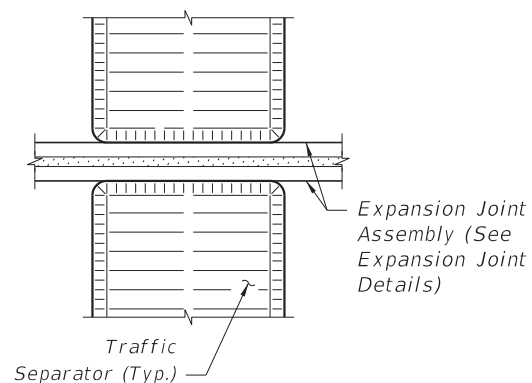
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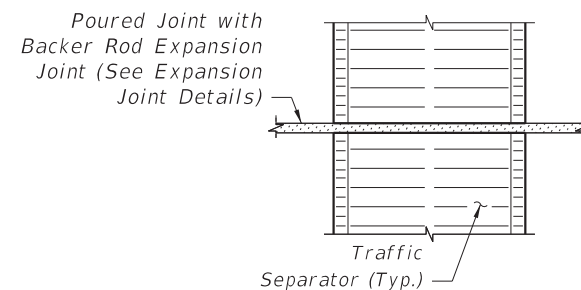
LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE  
(Bridge Deck Shown, Approach Slab Similar)

REINFORCING STEEL OPTION A

REINFORCING STEEL OPTION B (NOT PERMITTED ON BRIDGE DECKS WITH PRESTRESSING STEEL)



DETAIL AT EXPANSION JOINTS  
(Strip Seal Shown, Other Armored Joint Types Similar)



DETAIL AT POURED JOINT WITH BACKER ROD EXPANSION JOINTS

Note: Treatment of separators on straight bridges shown. For additional notes and treatment of separators on skewed bridges, see Sheet 2.

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BRIDGE INSTALLATIONS - TYPE "F" CURB

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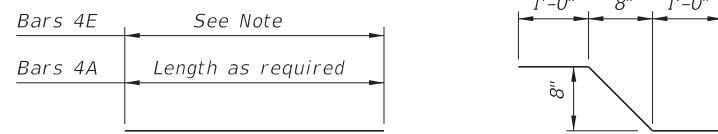
LAST REVISION	DESCRIPTION:
01/01/11	11/01/17

FDOT  
FY 2017-18  
DESIGN STANDARDS

TRAFFIC SEPARATORS

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CONVENTIONAL REINFORCING  
STEEL BENDING DIAGRAMS

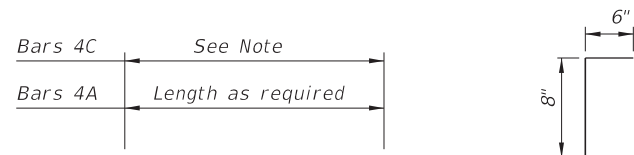


Bars 4A & 4E

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.

REINFORCING STEEL OPTION A



Bars 4A & 4C

Bar 4D

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.

REINFORCING STEEL OPTION B

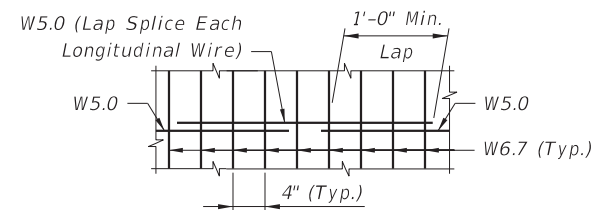
REINFORCING STEEL NOTES:

- All dimensions are out to out.
- 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.

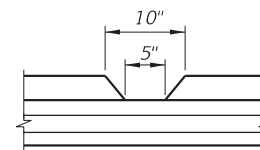
ALTERNATE REINFORCING STEEL  
DETAILS (WELDED WIRE REINFORCEMENT)

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 A.  
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 B.

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



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



DRAINAGE JOINT DETAIL  
FOR 5" OPENING OR LESS

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.

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 in the plans 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.

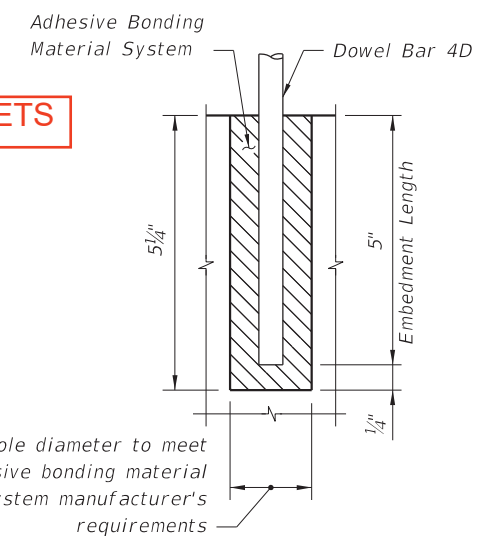
NOSE:  
TYPE "E" TYPE "F"  
4'-0" Width = 0.080 CY - 0.109 CY  
6'-0" Width = 0.193 CY - 0.257 CY  
8'-6" Width = 0.403 CY - 0.536 CY

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

OPTION A:  
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 B:  
4'-0" Width - 4.77 Lbs. per Ft.  
6'-0" Width - 7.00 Lbs. per Ft.  
8'-6" Width - 9.45 Lbs. per Ft.

REORIGINIZED TO MATCH PREVIOUS SHEETS



DOWEL DETAIL

- Dowel Notes:
- Shift Dowel Holes to clear if existing reinforcement is encountered.
  - Provide and install an adhesive bonding material system in accordance with Sections 416 and 937 of the Specifications.

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

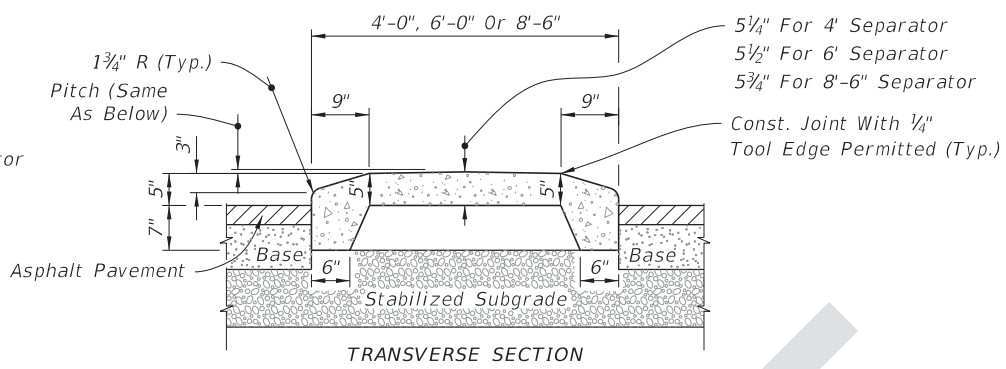
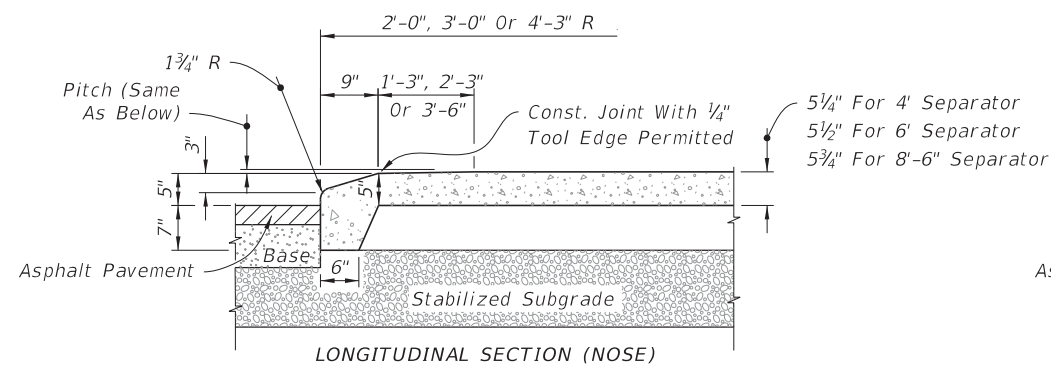
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LAST REVISION	DESCRIPTION:
07/01/07	11/01/17

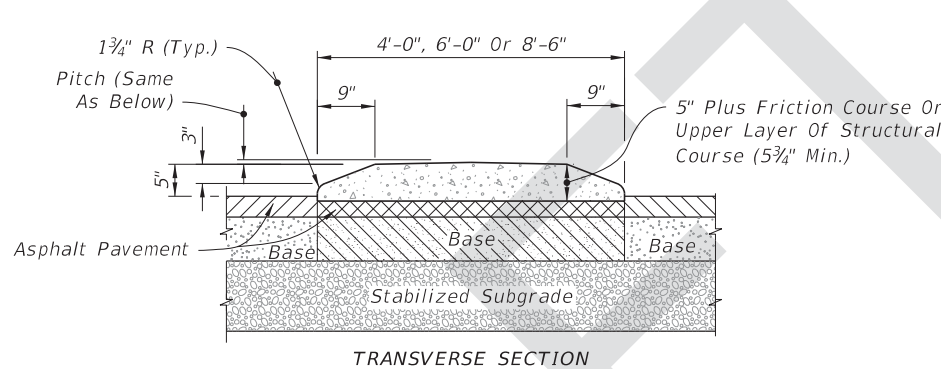
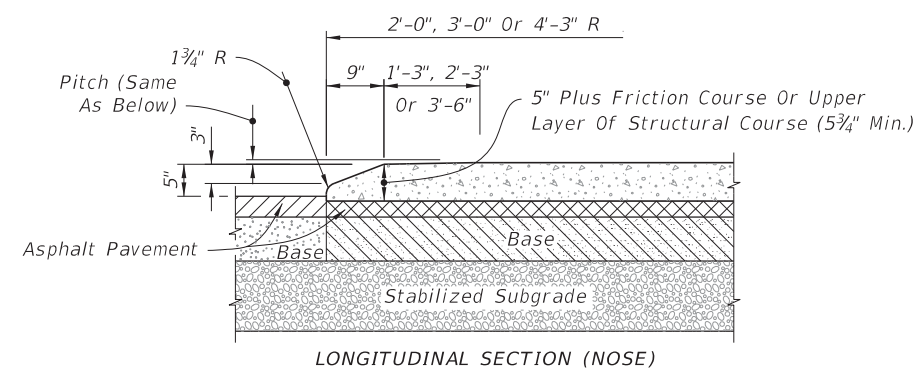
FDOT  
FY 2017-18  
DESIGN STANDARDS

TRAFFIC SEPARATORS

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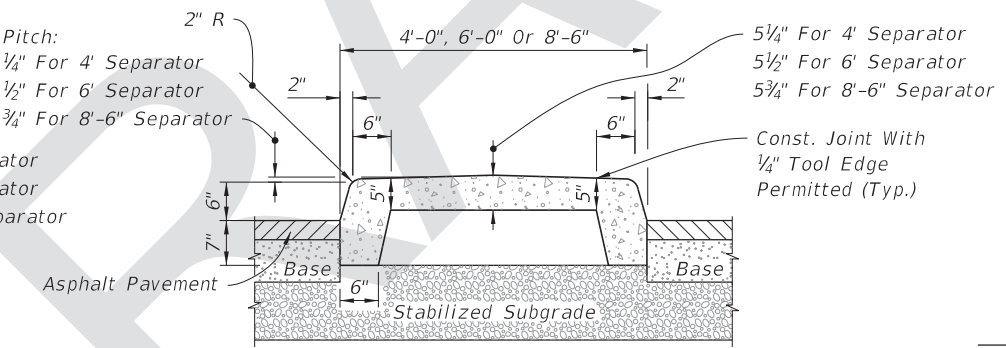
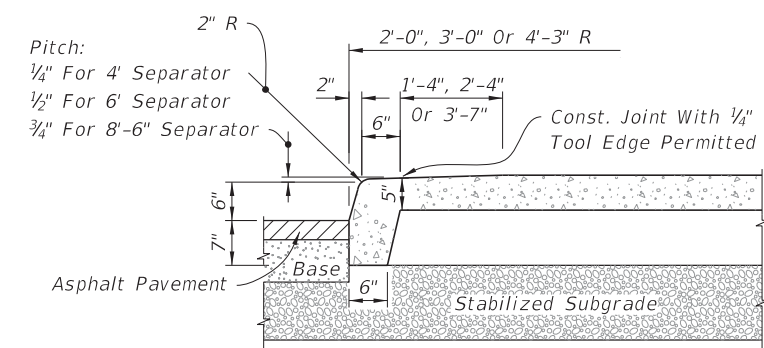


OPTION I

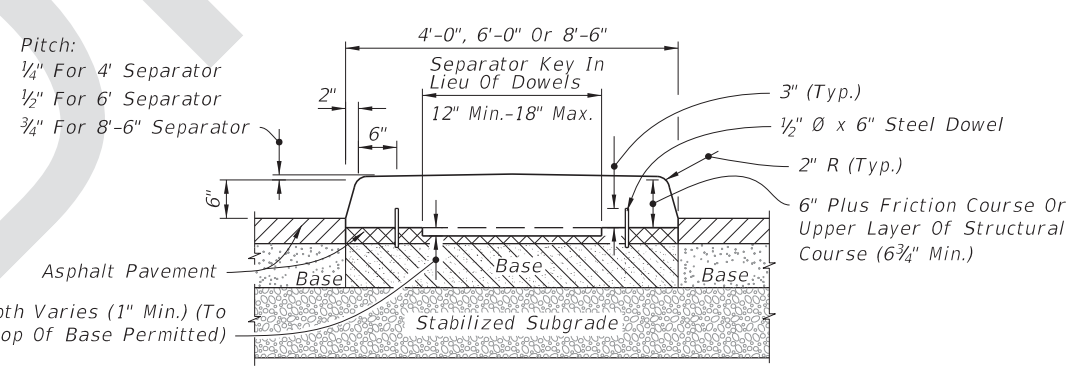
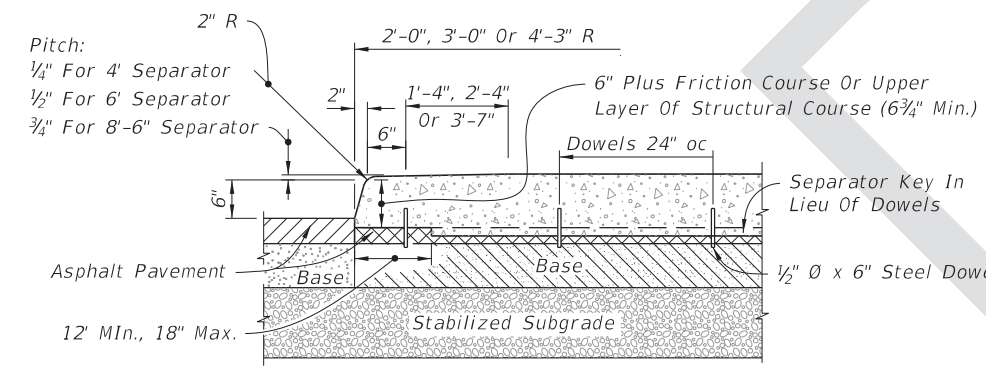


OPTION II

TYPE I - CONCRETE TRAFFIC SEPARATOR

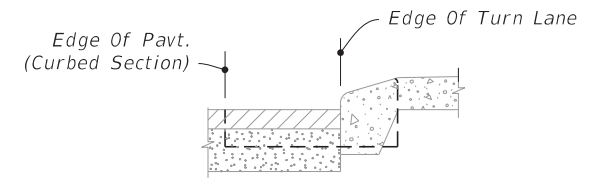


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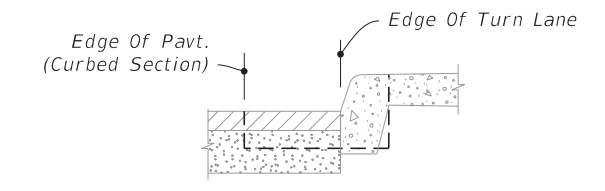


OPTION II

TYPE IV - CONCRETE TRAFFIC SEPARATOR

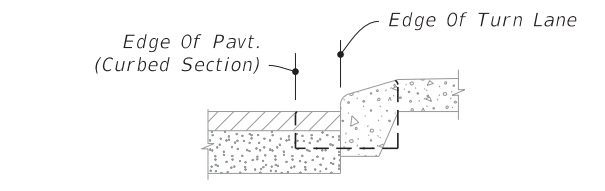


TYPE E

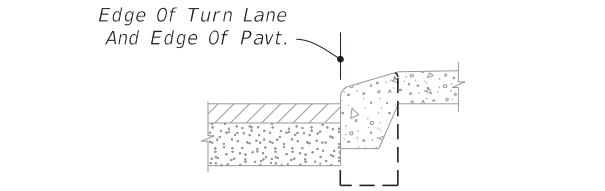


TYPE F

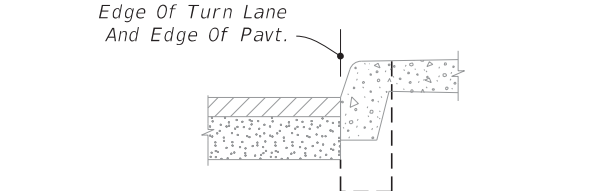
CURB AND GUTTER



TYPE A



TYPE B



TYPE D

CURB

MEDIAN CURB AND TRAFFIC

SEPARATOR JUNCTURE DETAILS

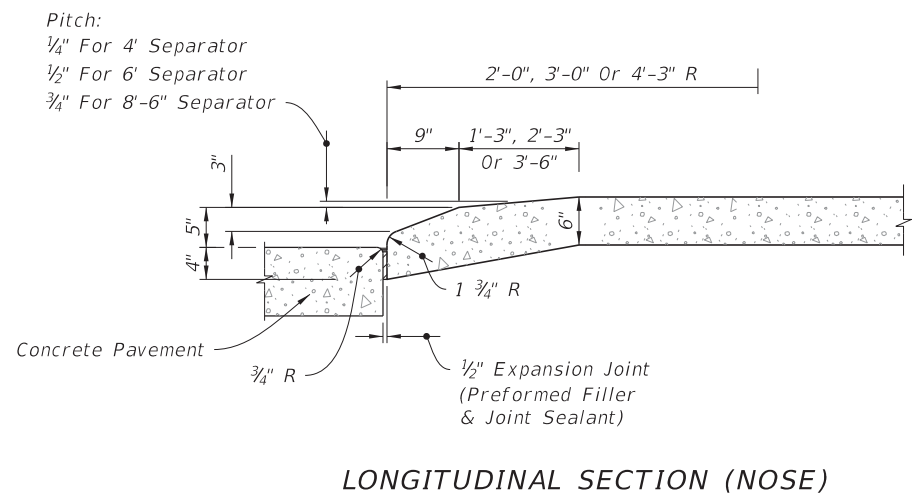
(Option I Separator Shown, For Curb Details see Index 520-001)

NOTES:

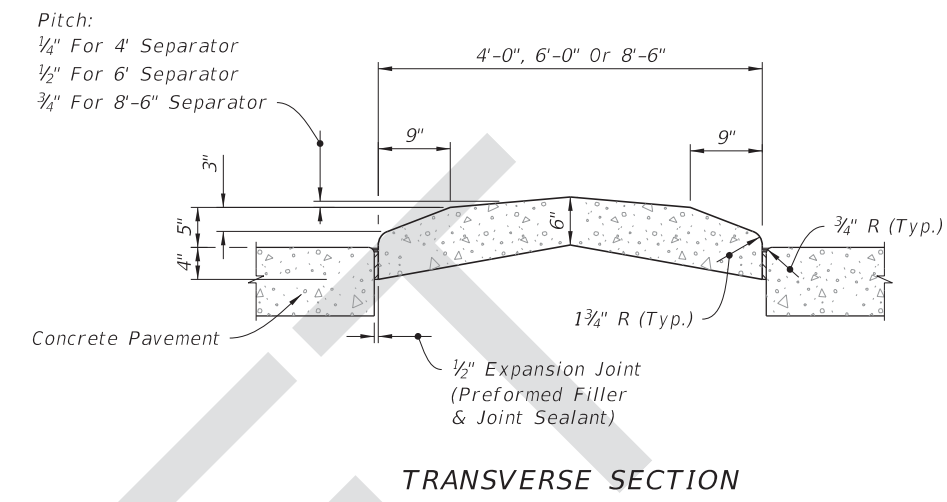
- Separators Type I and IV are to be used with flexible pavement. Separators Types II and V are to be used with rigid pavement.
- Either Option I or Option II may be used for Types I and IV separator's except when a specific option is called for in the Plans.
- For all separators provide 1/8"- 1/4" contraction 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.

8/28/2017 1:45:50 PM

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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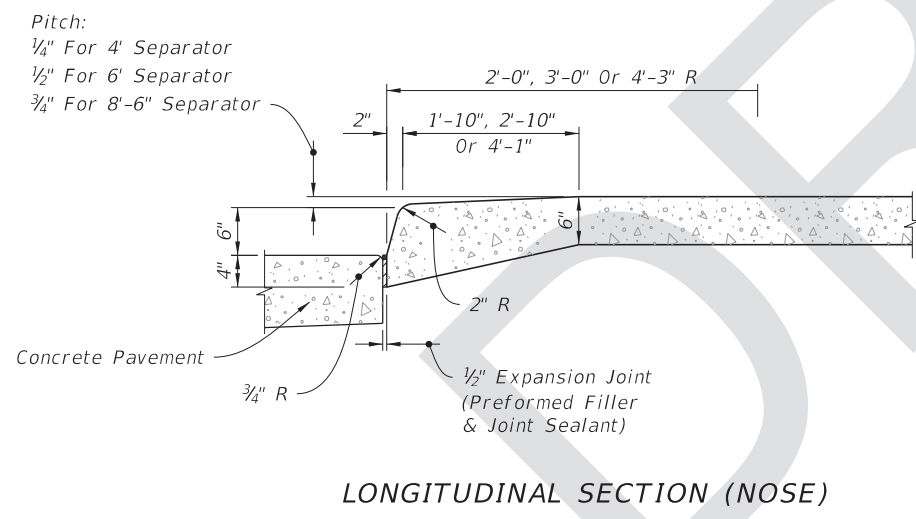


LONGITUDINAL SECTION (NOSE)

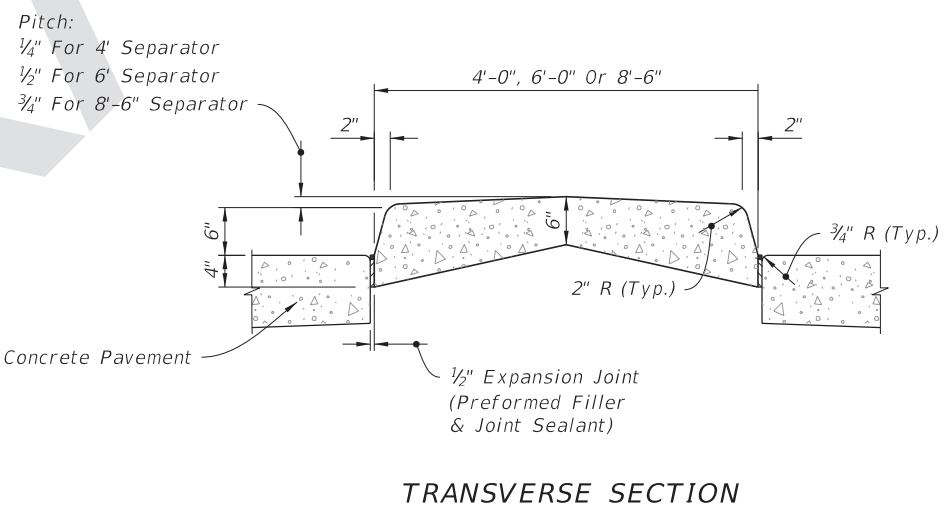


TRANSVERSE SECTION

TYPE II - CONCRETE TRAFFIC SEPARATOR



LONGITUDINAL SECTION (NOSE)




TRANSVERSE SECTION

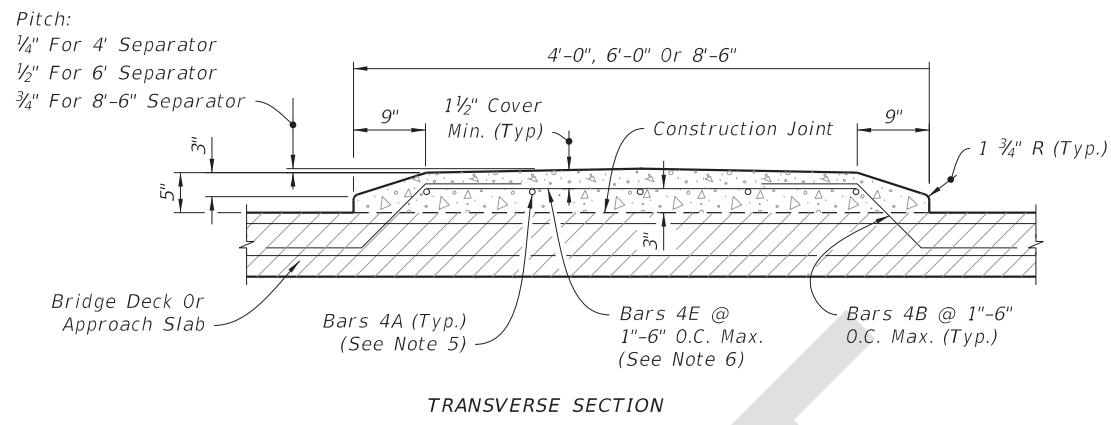
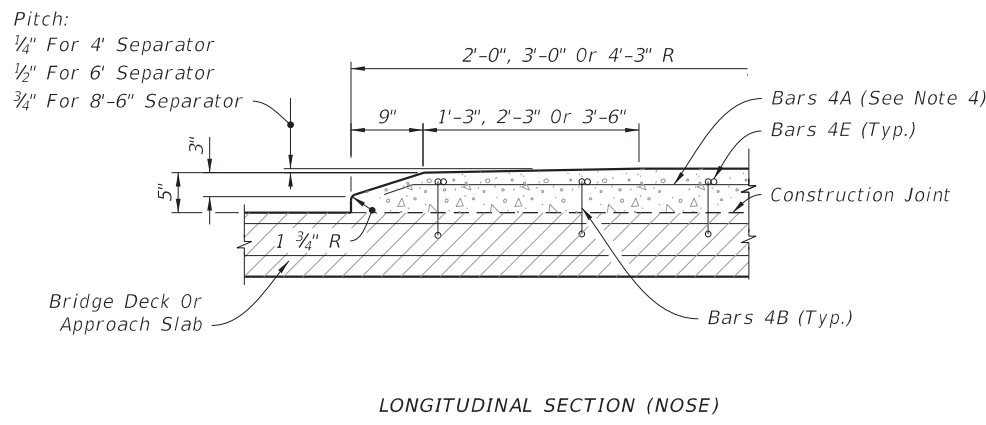
TYPE V - CONCRETE TRAFFIC SEPARATOR

ROADWAY INSTALLATIONS - RIGID PAVEMENT

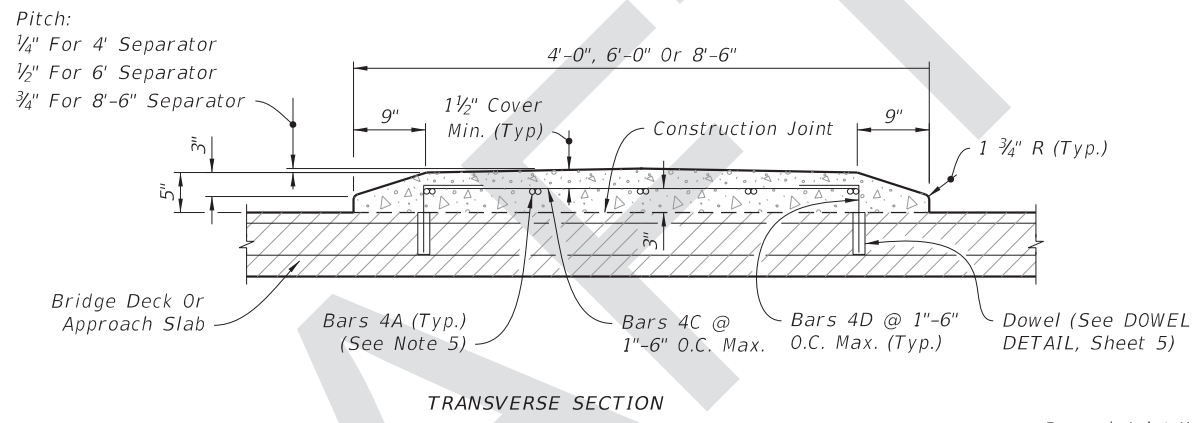
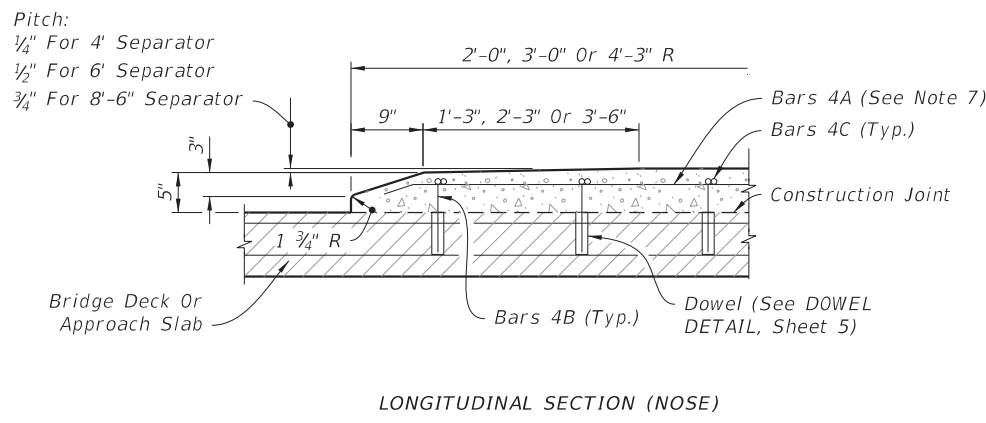
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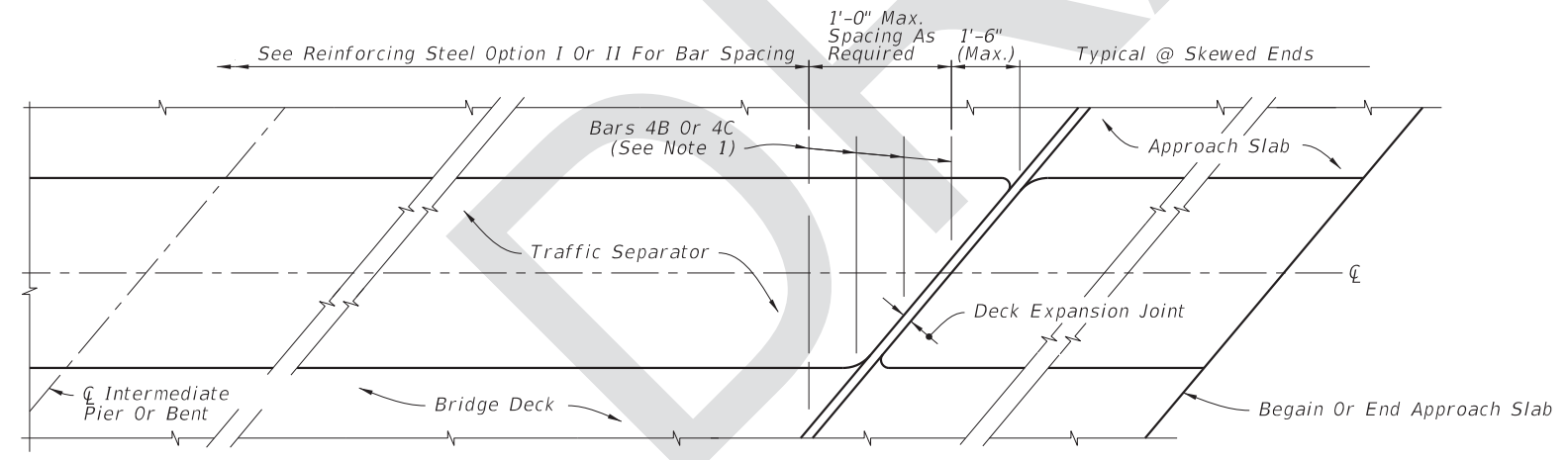
OPTION I



OPTION II

REINFORCING STEEL

(Bridge Deck Shown, Approach Slab Similar)

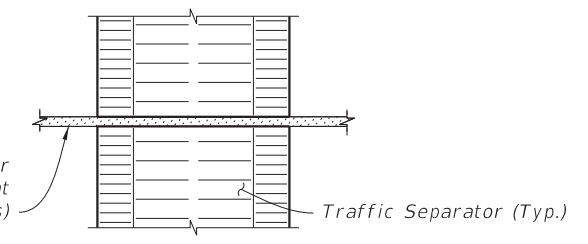


SKewed BRIDGE DECK AND APPROACH SLAB WITH TRAFFIC SEPARATOR

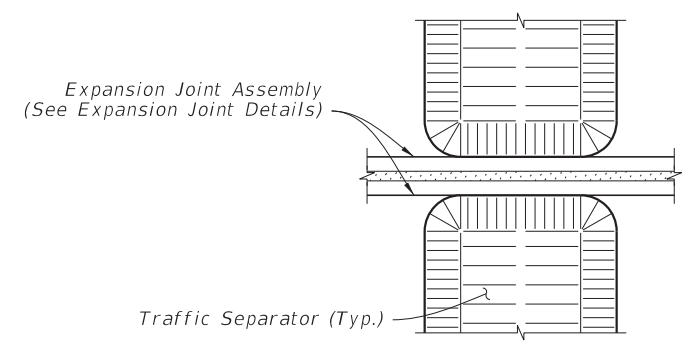
(Deck Expansion Joint at Begin or End Bridge Show, Expansion Joint at  $\phi$  Pier or Intermediate Bents Similar)

Notes:

1. Traffic Separator transverse reinforcement adjacent to deck expansion joints shall be field adjusted to maintain clearance and spacing. Bars shall be field cut as shown, bars may be rotated to maintain clearance.
2. Traffic Separator ends at deck expansion joints shall follow the deck joint limits. Drainage joints and b" V-Grooves shall be placed perpendicular or radial to the  $\phi$  of the Traffic Separator. See Structures Plans, Superstructure and Approach Slab Sheets for details.
3. See Structures Plans, Superstructure Sheets for actual dimensions and joint orientation.
4. Option II is not permitted on bridge decks with prestressing steel.
5. Bar Spacing:  
4'-0" @ 3 equal spaces (continuous)  
6'-0" @ 5 equal spaces (continuous)  
8'-6" @ 7 equal spaces (continuous)
6. At the Contractor's option, a one piece bar may be substituted for Bars 4B and 4E.
7. Field bend and cut rebar as required to maintain cover.




DETAIL AT Poured Joint With BACKER ROD EXPANSION JOINTS

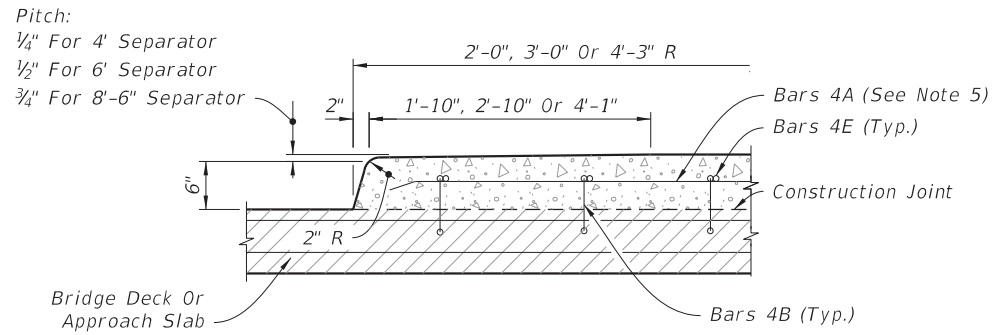


DETAIL AT EXPANSION JOINTS (Strip Seal Shown, Other Armored Joint Types Similar)

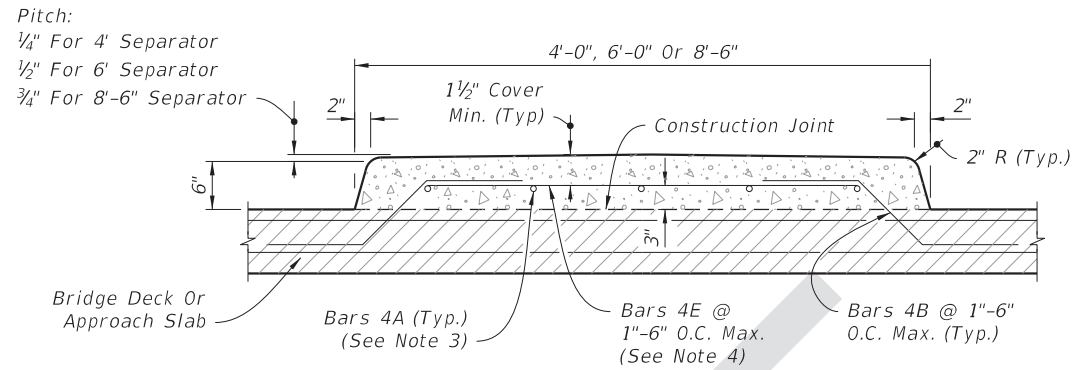
BRIDGE INSTALLATIONS - TYPE "E" CURB

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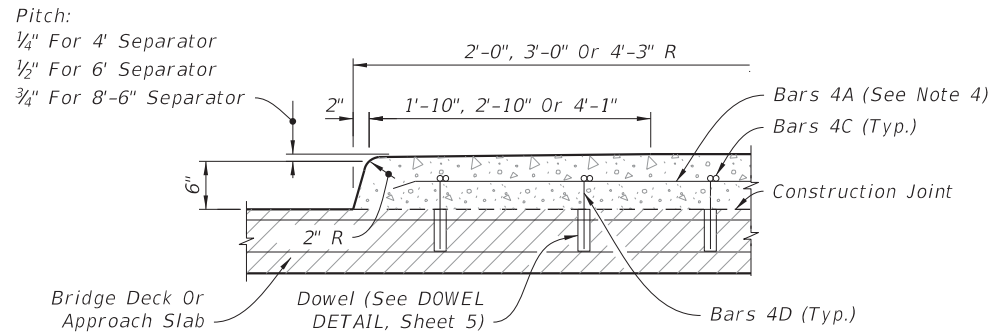


LONGITUDINAL SECTION (NOSE)

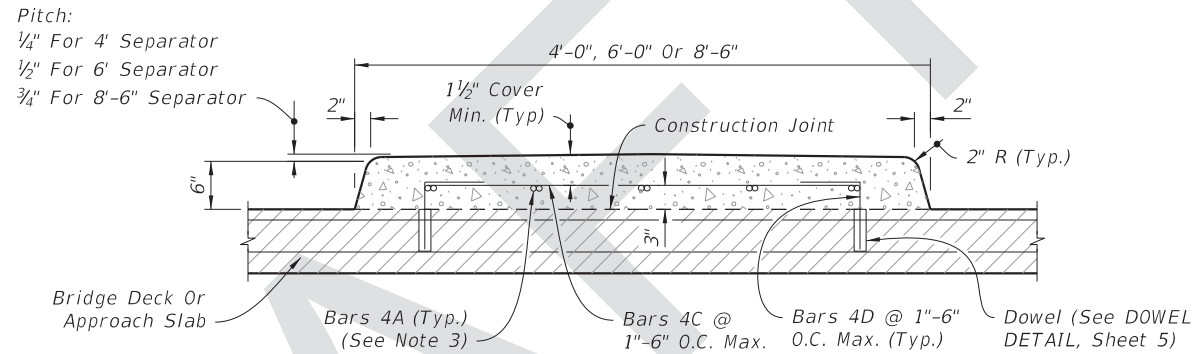


TRANSVERSE SECTION

OPTION I



LONGITUDINAL SECTION (NOSE)



TRANSVERSE SECTION

OPTION II

REINFORCING STEEL  
(Bridge Deck Shown, Approach Slab Similar)

Expansion Joint Assembly  
(See Expansion Joint Details)

Traffic Separator (Typ.)

DETAIL AT EXPANSION JOINTS  
(Strip Seal Shown, Other Armored Joint Types Similar)

Poured Joint With Backer  
Rod Expansion Joint  
(See Expansion Joint Details)

Traffic Separator (Typ.)

DETAIL AT Poured JOINT WITH  
BACKER ROD EXPANSION JOINTS

Notes:

1. Treatment of separators on straight bridges shown. For additional notes and treatment of separators on skewed bridges, see Sheet 2.
2. Option II is not permitted on bridge decks with prestressing steel.
3. Bar Spacing:  
4'-0" @ 3 equal spaces (continuous)  
6'-0" @ 5 equal spaces (continuous)  
8'-6" @ 7 equal spaces (continuous)
4. At the Contractor's option, a one piece bar may be substituted for Bars 4B and 4E.
5. Field bend and cut rebar as required to maintain cover.

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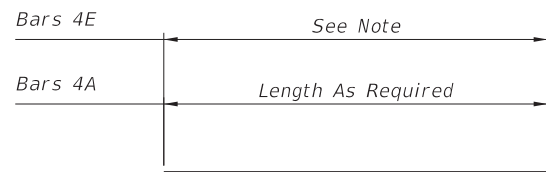


FY 2018-19  
STANDARD PLANS

TRAFFIC SEPARATORS

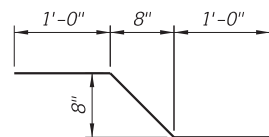
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BRIDGE INSTALLATIONS - TYPE "F" CURB



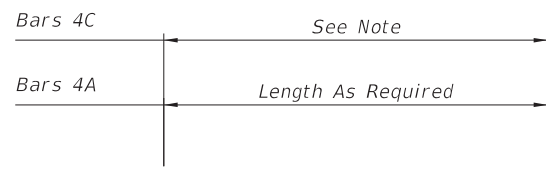
Bars 4A & 4E

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.



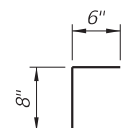
Bar 4B

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.



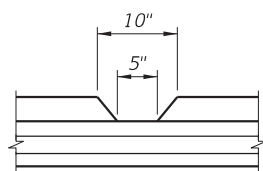
Bar 4D

OPTION II

REINFORCING STEEL NOTES:

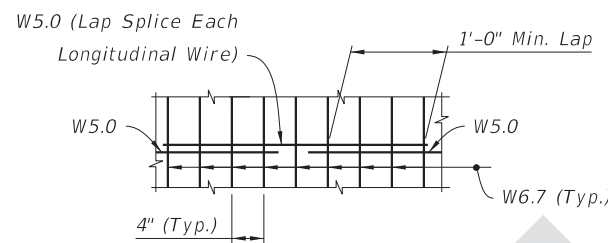
- All dimensions are out to out.
- The 8" vertical dimension shown for Bars 4B and 4D are based on a slab 8 1/2" thick or greater without a wearing surface. If slab thickness is less than 8 1/2", decrease this dimension by an amount equal to the difference in thickness. If a wearing surface is to be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



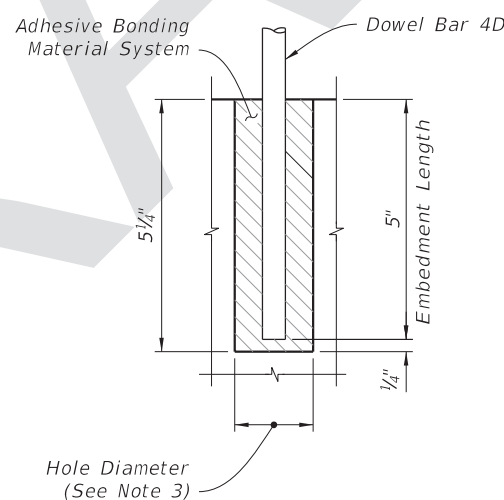
SPLICE DETAIL  
 (Between WWR 3 x 4 - W5.0 x W6.7 Sections)

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:

- Shift Dowel Holes to clear if existing reinforcement is encountered.
- Provide and install an adhesive bonding material system in accordance with Sections 416 and 937 of the Specifications.
- 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 in the plans 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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