**DESCRIPTION:**

- **Stabilized Subgrade:**
  - 1'-3", 2'-3" or 8'-6"
  - 4'-0", 6'-0" or 8'-6"

- **Base:**
  - 9"

**TRANSVERSE SECTION**

- **Asphalt Pavement:**
  - 1'-3", 2'-3" or 6'-0"

**LONGITUDINAL SECTION (NOSE)**

- **Asphalt Pavement:**
  - 1'-3", 2'-3" or 6'-0"

**OPTION I**

- **Type I - Concrete Traffic Separator**
  - Pitch: 1/4" for 4' Separator
  - Tool Edge Permitted
  - Depth Varies (1" Min.) (To Top Of Base Permitted)

**OPTION II**

- **Type IV - Concrete Traffic Separator**
  - Pitch: 7/8" for 8'-6" Separator
  - Tool Edge Permitted (Typ.)
  - Depth Varies (1" Min.) (To Top Of Base Permitted)

**MEMEDIAN CURB AND TRAFFIC SEPARATOR JUNCTURE DETAILS**

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

**NOTES:**

1. Separators Type I and IV are to be used with flexible pavement. Separators Types II and V are to be used with rigid pavement.

2. 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.

3. For all separators provide 1/2" contraction joints at 20' 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' centers.
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 V-Grooves shall be placed perpendicular or radial to the E of the Traffic Separator. See Structures Plans, Superstructure and Approach Slab Sheets for details.
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'-0" @ 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.

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 V-Grooves shall be placed perpendicular or radial to the E of the Traffic Separator. See Structures Plans, Superstructure and Approach Slab Sheets for details.
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'-0" @ 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.
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.

---

Traffic Separator (Typ.)

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

---

Detail at Expansion Joints (Bridge Deck Shown, Approach Slab Similar)

---

Detail at Poured Joint With Backer Rod Expansion Joints

---

Details of Bridges - Type "F" Curb

---

Fibre Optics (Typ.)

---

Backer Rod Expansion Joint
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)

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 8½" thick or greater without a wearing surface. If slab thickness is less than 8½", 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 BENDING DIAGRAMS

OPTION I

OPTION II

ALTERNATE REINFORCING STEEL DETAILS
(Welded Wire Reinforcement)

ESTIMATED TRAFFIC SEPARATOR QUANTITIES:

CONCRETE:

- CONSTANT WIDTH OF SEPARATOR:
  - 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'-0" Width = 0.133 CY per Ft. - 0.164 CY per Ft.

- TYPE "E":
  - 4'-0" Width = 0.080 CY per Ft. - 0.109 CY
  - 6'-0" Width = 0.133 CY per Ft. - 0.187 CY
  - 8'-0" Width = 0.203 CY - 0.323 CY

- NOSE:
  - TYPE "F":
    - 4'-0" Width = 0.080 CY per Ft. - 0.164 CY per Ft.
    - 6'-0" Width = 0.133 CY per Ft. - 0.257 CY per Ft.
    - 8'-0" Width = 0.203 CY per Ft. - 0.516 CY per Ft.

- TYPE "E":
  - 4'-0" Width = 0.109 CY per Ft.
  - 6'-0" Width = 0.187 CY per Ft.
  - 8'-0" Width = 0.323 CY per Ft.

- REINFORCING STEEL:
  - (All quantities are based on an 8½" slab)
    - TYPE "F":
      - 4'-0" Width = 6.37 Lbs. per Ft.
      - 6'-0" Width = 8.60 Lbs. per Ft.
      - 8'-0" Width = 11.95 Lbs. per Ft.
    - TYPE "E":
      - 4'-0" Width = 4.77 Lbs. per Ft.
      - 6'-0" Width = 7.00 Lbs. per Ft.
      - 8'-0" Width = 9.45 Lbs. per Ft.

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

TRAFFIC SEPARATORS

INDEX

11/01/17

REVISED

DESCRIPTION:

FY 2018-19

STANDARD PLANS

TRAFFIC SEPARATORS

520-020

5 of 5