**NOTES:**

1. On approach end provide a Roadway Guardrail Transition, Index No. 402 (as shown) or other site specific treatment. See Roadway Plans for limiting station at Roadway Guardrail Transition or other site specific treatment. If limiting station of Roadway Guardrail Transition is on the bridge, attach Thrie-Beam Terminal Connector to railing as shown above. (1) Limiting station of Roadway Guardrail Transition is along the Wing Wall, see Table 2 or 3, Sheets 2 & 3. On skewed bridges, if the skew along the deck joint extends across the width of the railing, the 2'-6" minimum dimension shall apply to both the Front and back Face of the railing. For treatment of trailing end see Roadway Plans. If vertical face retrofits extends beyond bridge and approach slab ends, see Index No. 484 for treatment and details.

2. Field cut Bars 5S and Dowel Bars 6D to maintain clearance with Vertical Face Retrofit Railing.

3. Where existing structure has been removed and not encased in new concrete, match adjoining areas and finish flat by grinding as required. Exposed existing reinforcing steel not encased in new concrete shall be removed 1" below existing concrete and grouted over.

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**PARTIAL PLAN OF RAILING**

- **Expansion Dowel Assemblies**
- **Existing Bridge Deck**
- **Superstructure Supports**
- **V-Groove in both faces and top of traffic railing**
- **Limiting station of transition**
- **Asphalt Overlay when present**
- **Vary (2'-6" Min.)**
- **Deck Joint**
- **Existing Bridge Deck**

**DESCRIPTION**

- **Guardrail Bolts**

**COPING**

**DATE**

- **07/01/10**

**ASSEMBLY**

- **Dowel**
- **Expansion**

**EXISTING Joints**

- **Open Joint**

**NOTES:**

- **Non skewed deck joint shown, actual joint dimensions and orientation vary**
- **For treatment at skewed deck joints see Skew Detail, Index No. 480. Provide open Railing Joints at Deck Expansion Joint locations matching the dimension of the deck joint.**

**PROVIDE**

- **3/16 Intermediate Open Joints at:**
  - (1) - Superstructure supports where slab is continuous.

**EXPANSION**

- **Dowel & Bars 4C not required at end of railing for Scheme 1, except where traffic railing retrofit extends beyond ends of bridge, see Index No. 484.

**VERTICAL FACE RETROFIT**

- **Bars 6D spacing at Railing joints (Typ. on bridge except as noted for skewed deck joints).**

**PARTIAL ELEVATION OF INSIDE FACE OF RAILING**

(Expansion Dowel Assemblies and Bars 4C not shown for clarity)

**TYPICAL TREATMENT OF RAILING ALONG BRIDGE**

**TYPICAL SECTION THRU RAILING ON BRIDGE DECK**

- **Asphalt Overlay when present**
- **Vary (2'-6" Min.)**
- **Deck Joint**
- **Existing Bridge Deck**

**TYPICAL SECTION THRU EXISTING TRAFFIC RAILING SHOWING LIMITS OF REMOVAL**

(BRIDGE DECK SHOWN, WING WALL SIMILAR)

**CROSS REFERENCE:**

- For General Notes, Estimated Quantities, Dowel Detail, Expansion Dowel Detail, Reinforcing Steel Notes & Bending Diagram see Index No. 480.

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**REVIEWS**

- **2010 Interim Design Standard**
- **TRAFFIC RAILING - (VERTICAL FACE RETROFIT) INTERMEDIATE CURB**

**DRAWN**

- **GJM**

**DATE**

- **07/01/10**

**SHEET NO.**

- **483**

**INDEX No.**

- **484**

**REVISIONS**

- **CHANGED**
- **INDEX NO.**
- **COPIES**
- **COPY**