CONDUIT GENERAL NOTES:

1. Furnish and install approved Conduits, Fittings and Embedded Junction Boxes (EJB's) in accordance with Specification Sections 630 and 635, this Standard, the National Electric Code (NEC) and as directed by the Engineer.

2. Furnish and install Embedded Junction Boxes (EJB) with weatherproof covers sized in accordance with NEC requirements and the maximum size limits shown. Install EJB adjacent to the Begin and End of Bridges, Begin and End of Retaining Walls, (except omit EJB adjacent to the Bridge unless a precast Traffic Railing with junction slab is used), and at other locations as necessary to maintain 300 foot maximum spacing. See Plans for additional locations and details.

3. For conduit not designated for future use, see Plans for details. For conduit designated for future use, stub out and cap the conduit. Drive a 3'-0" long ½" (min.) diameter Steel Pipe flush with the ground line adjacent to the end of the conduit as shown on Sheets 3, 3 or 4. Provide the location of the stub out with Steel Pipe to the Engineer for inclusion on the As-Built Plans.

4. Shift vertical Railing reinforcement symmetrically to provide 2" clearance to EJB. Space shifted vertical reinforcement at minimum 3" centers. Cut horizontal Railing reinforcement to provide 2" clearance to EJB and provide supplemental reinforcement as shown. To facilitate placement of conduit, Expansion Fittings, and Expansion/Deflection Fittings, shift reinforcing a maximum of 1" but do not cut railing reinforcing to facilitate conduit or fittings. Do not bundle Conduits, or Conduit and horizontal reinforcement.

CONDUIT DETAILS - EMBEDDED

DETAIL "A" EXPANSION FITTING DETAIL

DETAIL "B" EXPANSION / DEFLECTION FITTING DETAIL (CONCRETE / CONCRETE)

DETAIL "C" EXPANSION / DEFLECTION FITTING DETAIL (CONCRETE / SOIL)

* Reduce to 6" maximum when installed in Pedestrian / Bicycle Railings.
PARTIAL PLAN VIEW OF MEDIAN TRAFFIC RAILING ALONG BRIDGE

3/8 Open Joint in Railing

EJB "B" (Single Conduit) (1'-6" Max. x 8" Max. x 8" Max.) (Typ.)

2" Ø PVC Conduits

See Note 3

PARTIAL ELEVATION VIEW OF MEDIAN TRAFFIC RAILING ALONG BRIDGE

Provide 4 ~ 8'-0" long supplemental #5 Bars centered on EJB

2" Ø Conduits See Note 3

SECTION A-A

Median Traffic Railing (See Note 4)

NOTES:
1. Work this sheet with Index 521-426.
2. Adjust Conduit horizontally and vertically as necessary to align with EJB "B".
3. When installed in traffic face of a railing, use 2" Ø Conduits with a minimum 3/16" thick galvanized steel cover.
4. Position EJB such that, with gasket and cover plate secured and in place, cover plate is flush with the railing face. Flush is +0 to -8" measured with a horizontal straightedge.

CONDUIT STUB-OUT DETAIL

* For non-continuing Traffic Railing only.

Edge of Pavement or Retaining Wall Coping (if present)

2" Ø EJB (if present)

CONDUIT STUB-OUT DETAIL

2" Ø PVC Conduits

2'-0" Min. to Railing Ends & all open joints in Railings (Typ.)

300'-0" (Max.)

BEGIN OR END APPROACH SLAB

Front Face of Backwall or
Begin or End Bridge

Deck Expansion Joint

Guardrail Transition Section when called for in Roadway Plans

Detail "C"

Approach Slab

Approach Slab

See Conduit Stub-Out Detail below

BRIDGE AND APPROACH SLAB WITH MEDIAN TRAFFIC RAILING
PARTIAL ELEVATION VIEW ALONG APPROACH
SLAB WITH CONTINUING Concrete Barrier
(Retaining Wall Mounted Concrete Barrier shown, Traffic Railing similar)

* Index 521-610 Concrete Barrier/Junction Slab shown, other railings and parapets similar.
** EJB 'A' shown EJB 'B' similar. See EJB 'B' Detail on Sheet 2.