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.

GENERAL

CONDUIT DETAILS - EMBEDDED

INDEX 630-010

SHEET 1 of 4

CONDUIT DETAILS - EMBEDDED

INDEX 630-010

SHEET 1 of 4
**Approach Slab**

- Top of Coping
- See Detail "C" or "A" or "B" as required by Structures Plans

**Bridge Deck or Approach Slab**

- Traffic Railing *
- Deck Expansion Joint
- Gutter Line

**Top of Coping**

- See Detail "A" or "B" as required by Structures Plans

**Coping**

- Traffic Railing
- Deck Expansion Joint

**Bridge Deck or Approach Slab**

- Traffic Railing *
- Deck Expansion Joint
- Gutter Line

**Front Face of Backwall & Begin or End Bridge**

- Deck Expansion Joint
- Traffic Railing

**EJB "B" DETAIL**

- Traffic Railing (36" Single-Slope)
- 3 – 2" Ø PVC Conduits
- Bridge Deck or Approach Slab

**SECTION THRU TRAFFIC RAILING AT EJB**

- (36" SINGLE-SLOPE SHOWN, 42" SINGLE-SLOPE SIMILAR)

- Provide 2 supplemental #5 Bars each 8'-0" long centered about EJB

**SECTION THRU PEDESTRIAN / BICYCLE RAILING AT EJB**

- (42" VERTICAL SHAPE SHOWN, 32" VERTICAL SHAPE SIMILAR)

**SECTION THRU**

- Traffic Railing

**PARTIAL ELEVATION VIEW ALONG BRIDGE**

- Traffic Railing
- 3 – 2" Ø PVC Conduits

**PARTIAL PLAN VIEW ALONG BRIDGE**

- Traffic Railing
- Deck Expansion Joint
- Top of Coping

**PARTIAL PLAN VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING**

- Traffic Railing

**PARTIAL ELEVATION VIEW ALONG BRIDGE**

- Traffic Railing
- Deck Expansion Joint
- Top of Coping

**PARTIAL ELEVATION VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING**

- Traffic Railing

**BRIDGE AND APPROACH SLAB WITH EDGE RAILING**

- Deck Expansion Joint
- Traffic Railing

**Gutter Line**

- Bridge Deck or Approach Slab

**Guardrail Transition Section**

- When called for in Plans

**36" Single-Slope Traffic Railing shown, other Traffic Railings and Pedestrian/Bicycle Railings similar.**

**EJB "A" shown, EJB "B" similar. See EJB "B" Detail.**
PARTIAL PLAN VIEW OF MEDIAN TRAFFIC RAILING ALONG BRIDGE

PARTIAL ELEVATION VIEW OF MEDIAN TRAFFIC RAILING ALONG BRIDGE

PARTIAL PLAN VIEW OF MEDIAN TRAFFIC RAILING ALONG APPROACH SLAB

PARTIAL ELEVATION VIEW OF MEDIAN TRAFFIC RAILING ALONG APPROACH SLAB

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 2½" Ø with a minimum ⅛" 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 ⅛" to ¼" measured with a horizontal straightedge.

CONDUIT STUB-OUT DETAIL

CONDUIT DETAILS - EMBEDDED

BRIDGE AND APPROACH SLAB WITH MEDIAN TRAFFIC RAILING

DESCRIPTION:

REVOLUTION 01/01/17

INDEX 630-010

SHEET 3 of 4
PARTIAL PLAN VIEW ALONG APPROACH SLAB
WITH CONTINUING CONCRETE BARRIER

36°
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.