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 3/8" (min.) diameter Steel Pipe flush with the ground line adjacent to the end of the Conduit as shown on Sheets 2, 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.

* Reduce to 6" maximum when installed in Pedestrian/Bicycle Railings.
Approach Slab
Top of Coping
See Detail "C"

End Bent Wing
See Detail "A" or "B" as required by Structures Plans

Traffic Railing *
Deck Expansion Joint
3 - 2" Ø PVC Conduits
Bridge Deck or Approach Slab

Top of Coping
300'-0" (Max.)
2'-0" Min. to Railing Ends & all Open joints in Railings (Typ.)

EJB "B" DETAIL

* 36" Single-Slope Traffic Railing shown, other Traffic Railings and Pedestrian/Bicycle Railings similar.
** EJB "A" shown, EJB "B" similar. See EJB "B" Detail.

Traffic Railing (36" Single-Slope)
Deck Expansion Joint or "B" Open joint in Railing

3 - 2" Ø PVC Conduits
Bridge Deck or Approach Slab

EJB "B" Similar

Traffic Railing (42" Vertical Shape)
Provide 3 supplemental #5 Bars each 8'-0" long centered about EJB

2" Ø PVC Conduits
Bridge Deck or Approach Slab

Gutter Line
See Detail "A" or "B" as required by Structures Plans

EJB "A" Shown
EJB "B" Similar

3 - 2" Ø PVC Conduits
Bridge Deck or Approach Slab

EDB "A" Shown
EDB "B" Similar

SECTION THRU
TRAFFIC RAILING AT EJB
(36" SINGLE-SLOPE SHOWN, 42" SINGLE-SLOPE SIMILAR)

SECTION THRU PEDESTRIAN /
BICYCLE RAILING AT EJB
(42" VERTICAL SHAPE SHOWN,
32" VERTICAL SHAPE SIMILAR)

SECTION THRU
TRAFFIC RAILING AT EJB
(42" VERTICAL SHAPE)

PARTIAL ELEVATION VIEW ALONG BRIDGE
PARTIAL PLAN VIEW ALONG BRIDGE
PARTIAL PLAN VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING

PARTIAL ELEVATION VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING

Bridge and Approach Slab with Edge Railing

CONDUIT DETAILS - EMBEDDED
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630-010

S H E E T

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Guardrail Transition Section when called for in Plans

Shoulder Line

2” Ø PVC Conduits
See Detail “C”

Retaining Wall Coping

Top of Coping
See Detail “A”

Retaining Wall Panels (Typ.)

Traffic Railing *

2” Ø PVC Conduits
See Detail “A” **

Gutter Line

Approach Slab

Approach Slab

Approach Slab

Approach Slab

PARTIAL PLAN VIEW ALONG APPROACH SLAB WITH CONTINUING TRAFFIC RAILING

PARTIAL PLAN VIEW ALONG RETAINING WALL

PARTIAL ELEVATION VIEW ALONG APPROACH SLAB WITH CONTINUING TRAFFIC RAILING

(Retaining Wall Mounted Traffic Railing shown, Roadway Concrete Barrier similar)

PARTIAL ELEVATION VIEW ALONG RETAINING WALL

2'-0” (Min.)

2'-0” (Min.)

* 36” Single-Shape Traffic Railing shown, other Traffic Railings and Pedestrian / Bicycle Railing similar. (See Sheet 2)
** EJB "A" shown EJB "B" similar. See EJB "B" Detail on Sheet 2.