

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	630-010
Date:	5/15/2025	Sheet Number(s):	Sheets 1,2,4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	CONDUIT DETAILS - EMBEDDED

Summary of the changes:

Sheet 1: Added to note 5 a max height to conduit.
 Sheet 2: Added a max elevation for conduit in EJB "B" DETAIL and PARTIAL ELEVATION VIEW ALONG BRIDGE
 Sheet 4: Added a max elevation for conduit in PARTIAL ELEVATION VIEW ALONG APPROACH

Commentary/Background:

Conduit height in the barrier is being limited to avoid conflicts with conduits when drilling holes for anchorage. This aligns with changes to Index 700-012, where the sign mounting plate was raised.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]

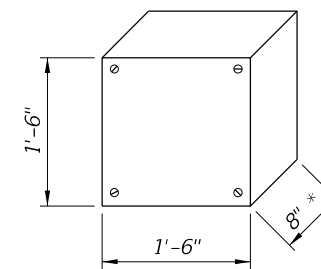
CONDUIT GENERAL NOTES:

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 ¾" (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.

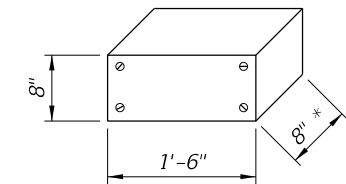
5. Place conduits as indicated in this Standard unless Structures Plans indicate fewer.
Max elevation of the top of conduit is 1'-6" above top of coping for traffic barriers and 1'-2" for parapets.

Updated Note

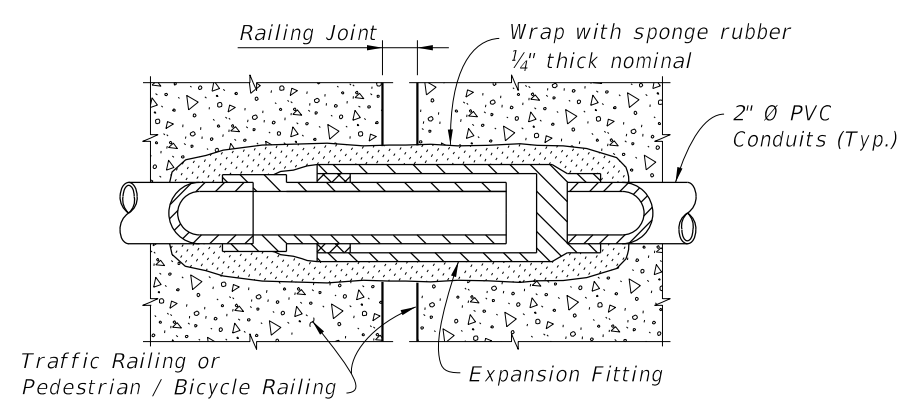
* Reduce to 6" maximum when installed in Pedestrian/ Bicycle Railings.



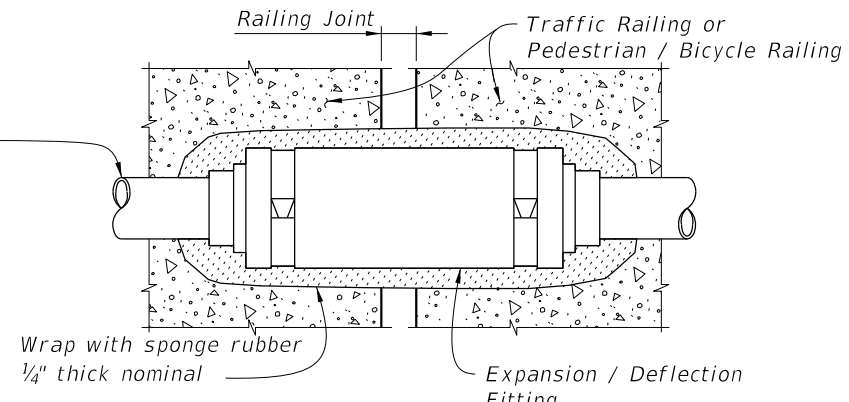
EJB "A"
 Double or Triple Conduit
 (Maximum Dimensions)



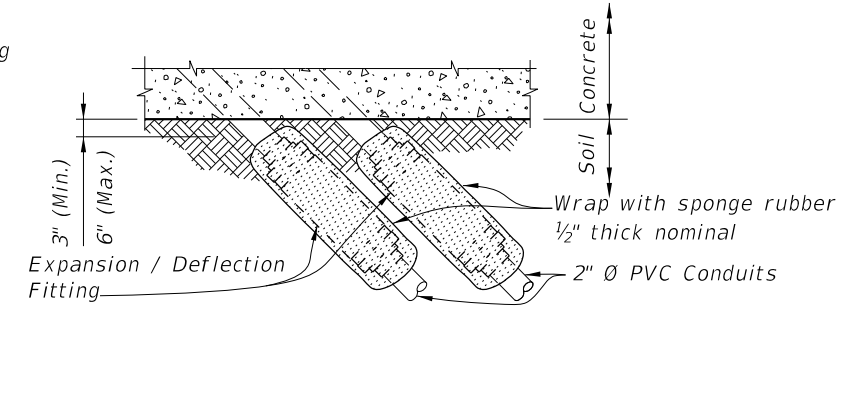
EJB "B"
 Single Conduit
 (Maximum Dimensions)



DETAIL "A"
 EXPANSION FITTING DETAIL



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



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

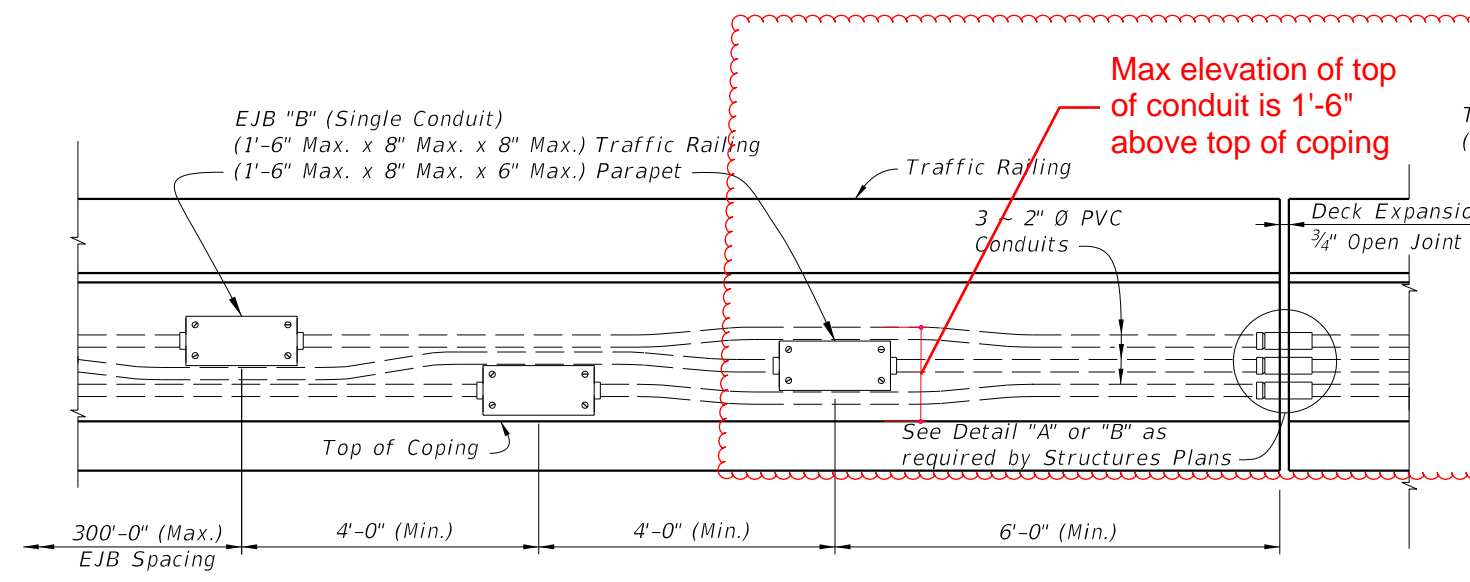
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2026-27
 FY ~~2025-26~~
 STANDARD PLANS

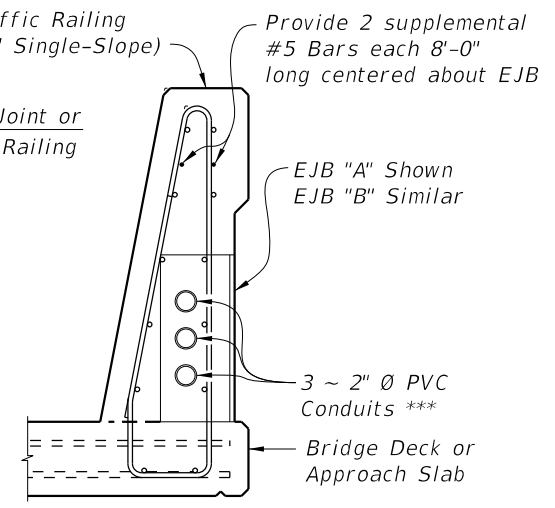
CONDUIT DETAILS - EMBEDDED

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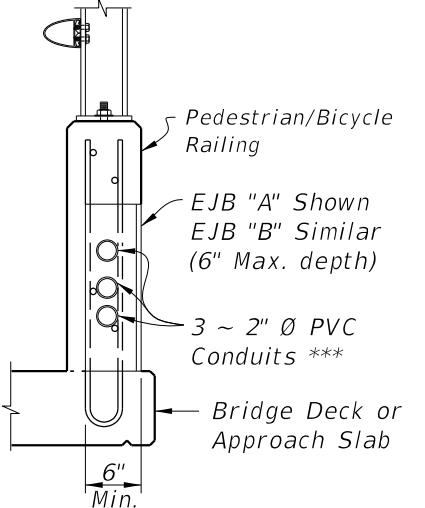


EJB "B" DETAIL

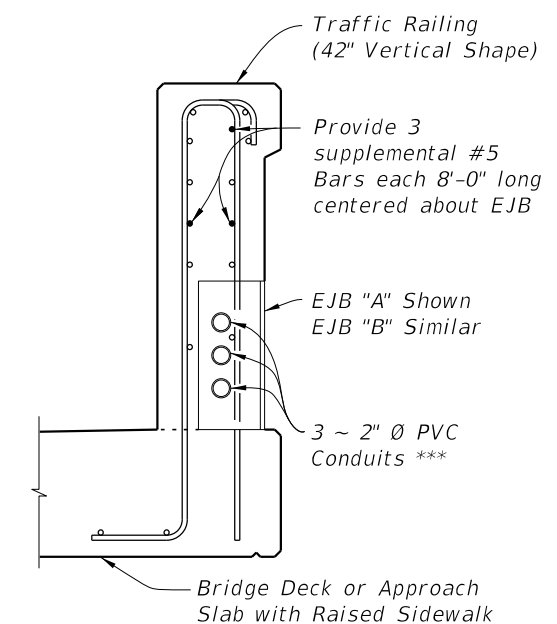
* 36" Single-Slope Traffic Railing shown, other Traffic Railings and Pedestrian/Bicycle Railings similar.
 ** EJB "A" shown, EJB "B" similar. See EJB "B" Detail.
 *** See Sheet 1, Note 5.



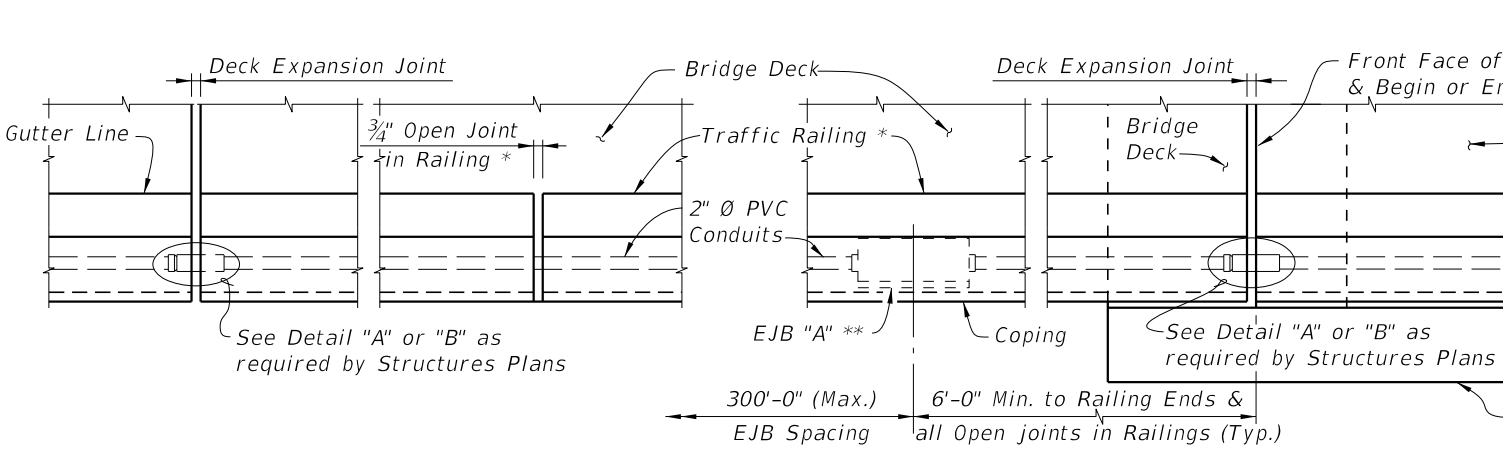
SECTION THRU TRAFFIC RAILING AT EJB (36" SINGLE-SLOPE SHOWN, 42" SINGLE-SLOPE SIMILAR)



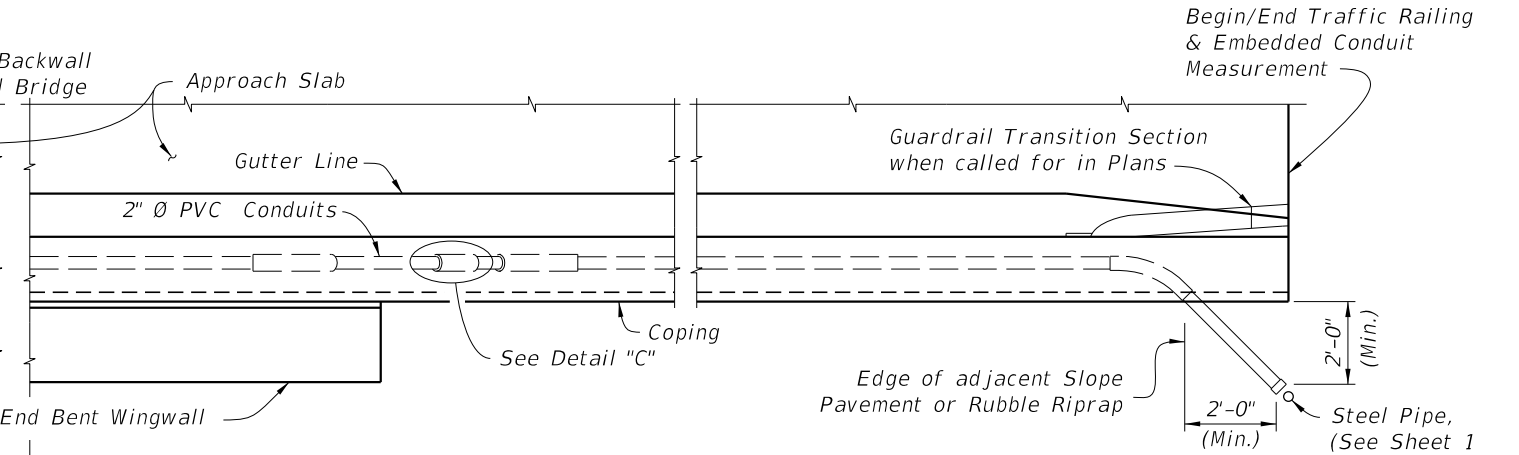
SECTION THRU PEDESTRIAN / BICYCLE RAILING AT EJB



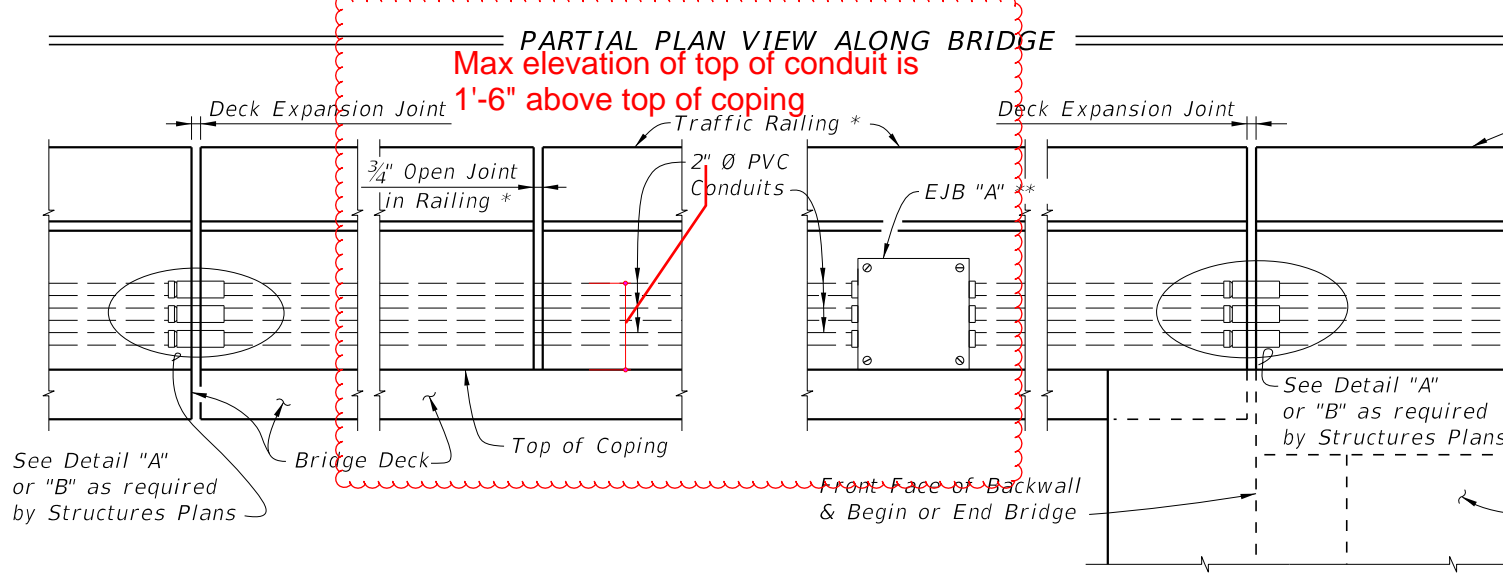
SECTION THRU TRAFFIC RAILING AT EJB (42" VERTICAL SHAPE SHOWN, 32" VERTICAL SHAPE SIMILAR)



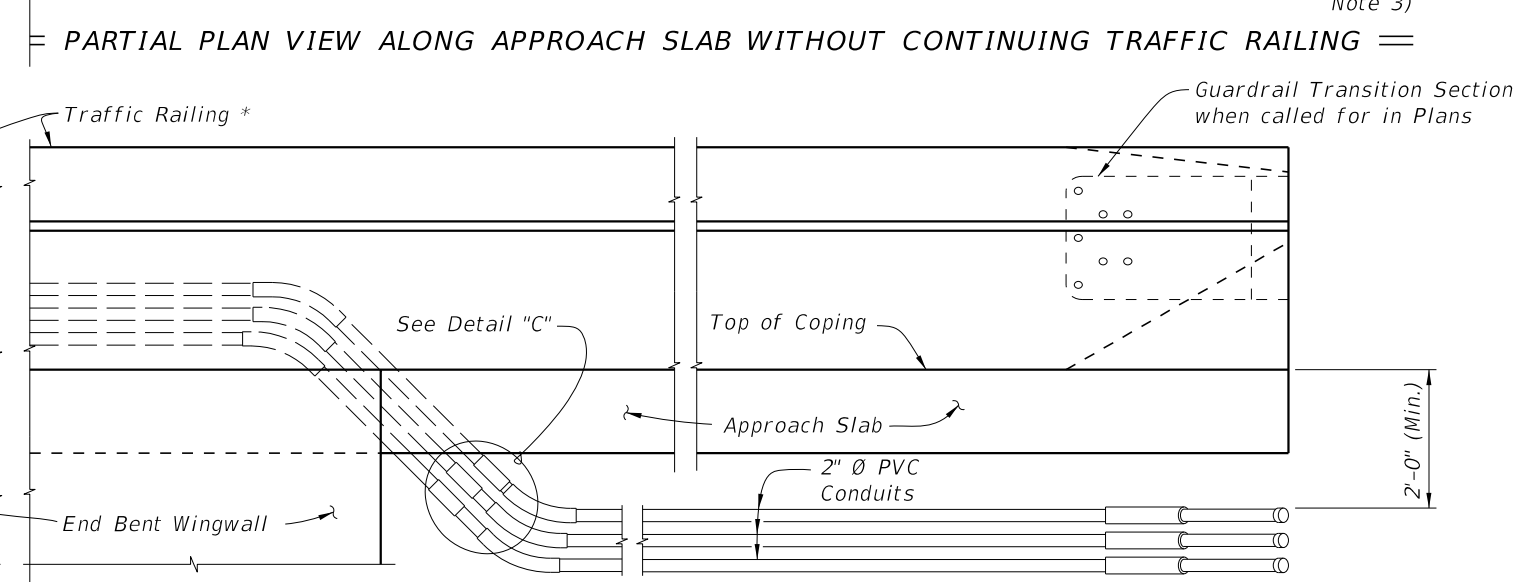
PARTIAL PLAN VIEW ALONG BRIDGE



PARTIAL PLAN VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING



PARTIAL ELEVATION VIEW ALONG BRIDGE



PARTIAL ELEVATION VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING

2026-27

BRIDGE AND APPROACH SLAB WITH EDGE RAILING

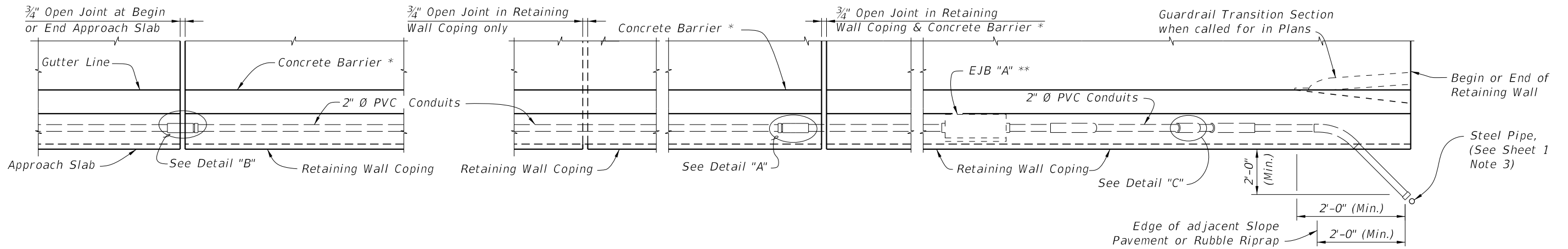
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FY ~~2025-26~~ 2026-27
STANDARD PLANS

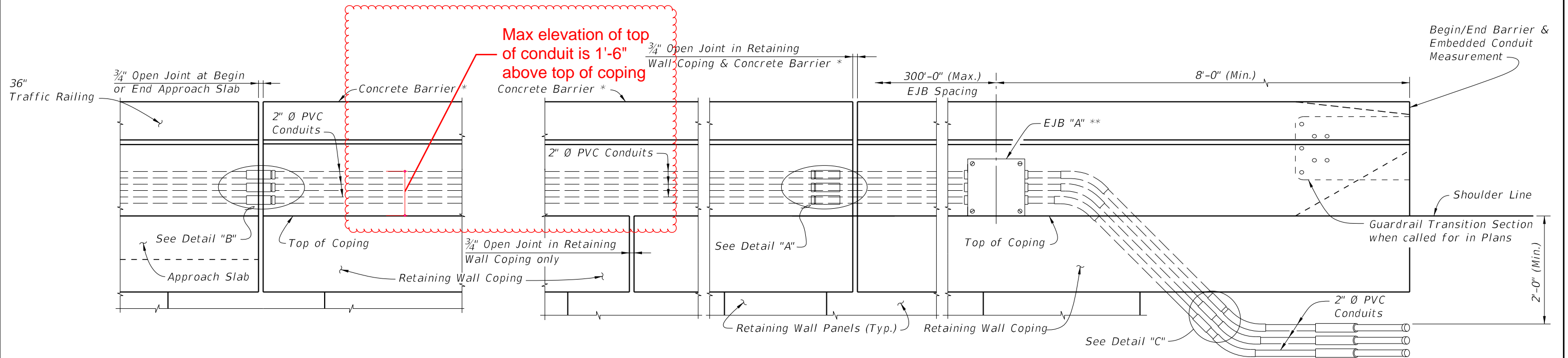
CONDUIT DETAILS - EMBEDDED

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PARTIAL PLAN VIEW ALONG APPROACH SLAB WITH CONTINUING CONCRETE BARRIER

PARTIAL PLAN VIEW ALONG RETAINING WALL



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

PARTIAL ELEVATION VIEW ALONG RETAINING WALL

* 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.

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APPROACH SLAB AND RETAINING WALL WITH CONCRETE BARRIER

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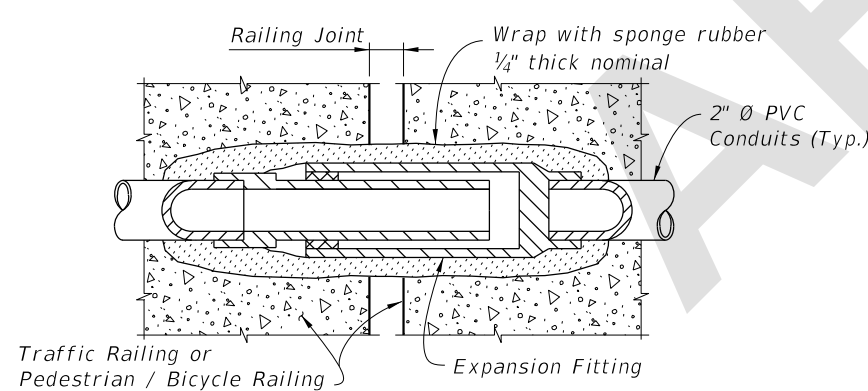
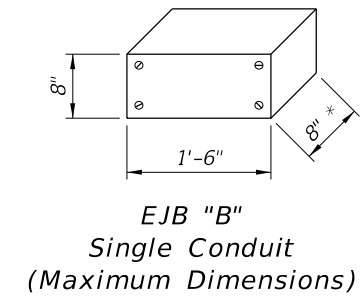
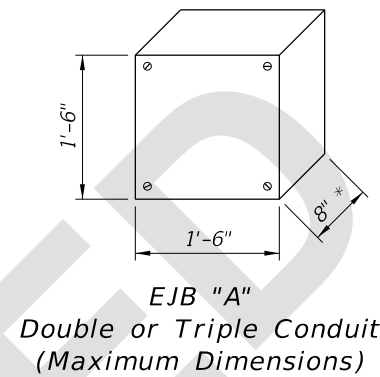
CONDUIT DETAILS - EMBEDDED

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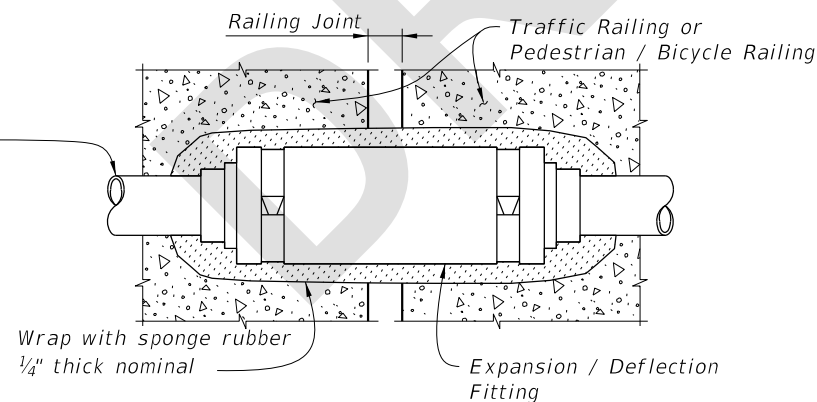
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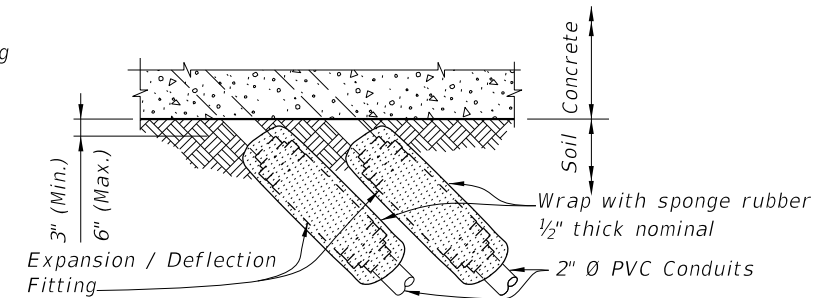
* Reduce to 6" maximum when installed in Pedestrian/ Bicycle Railings.



DETAIL "A"
EXPANSION FITTING DETAIL




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

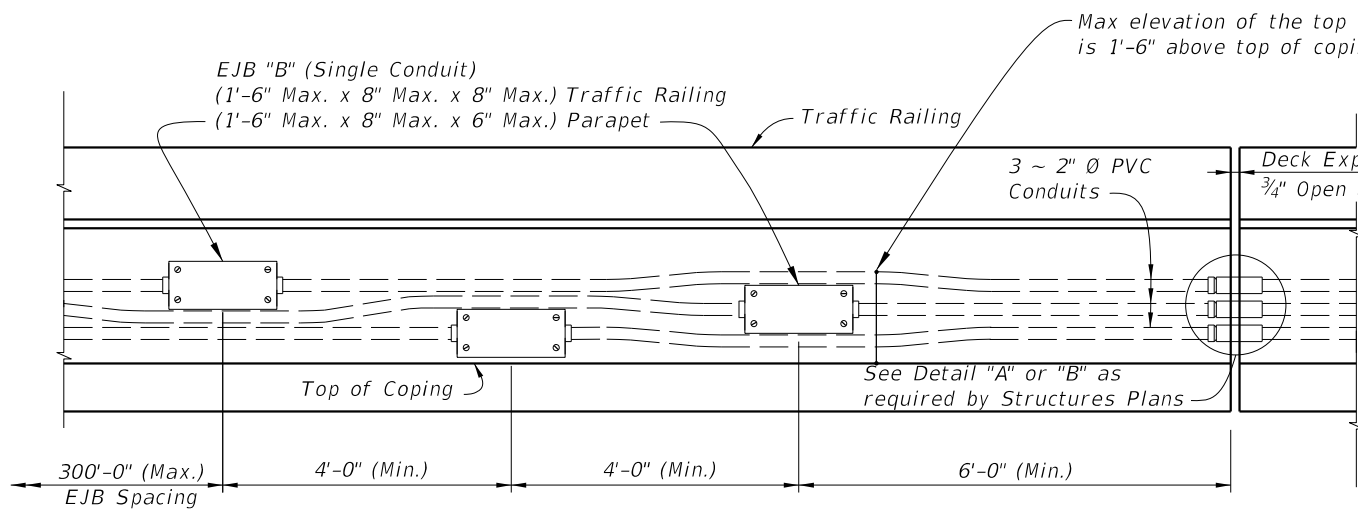


DETAIL "C" EXPANSION / DEFLECTION
FITTING DETAIL (CONCRETE / SOIL)

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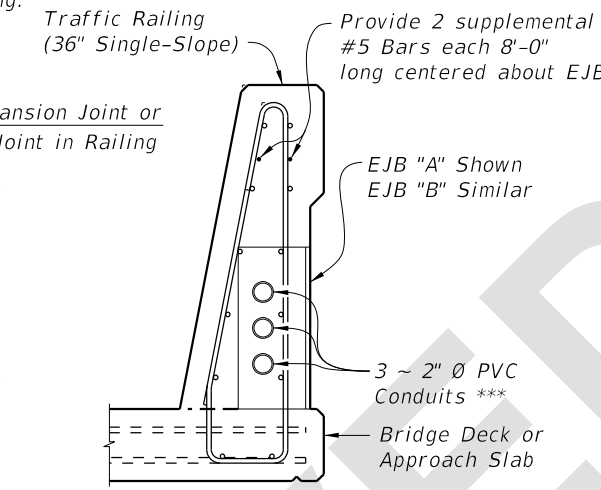
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GENERAL

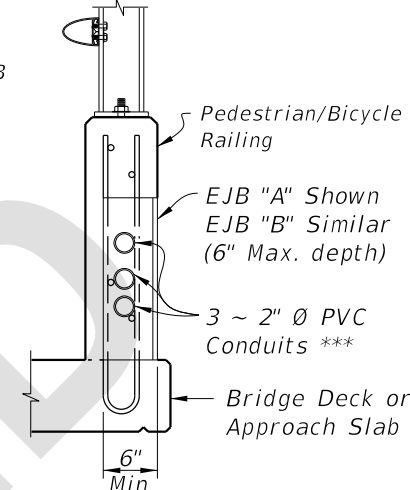


EJB "B" DETAIL

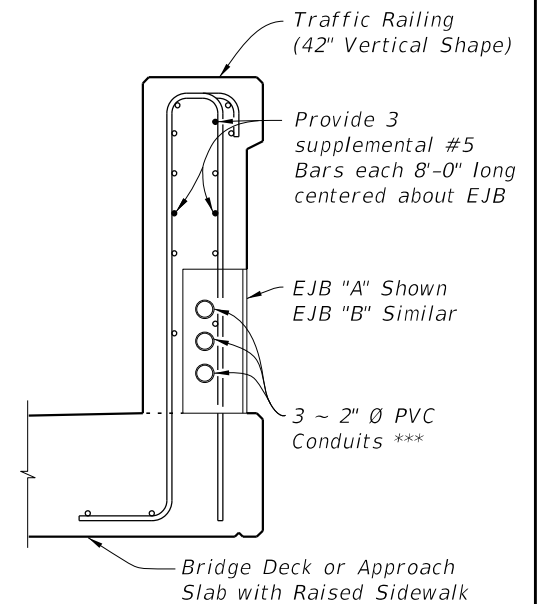
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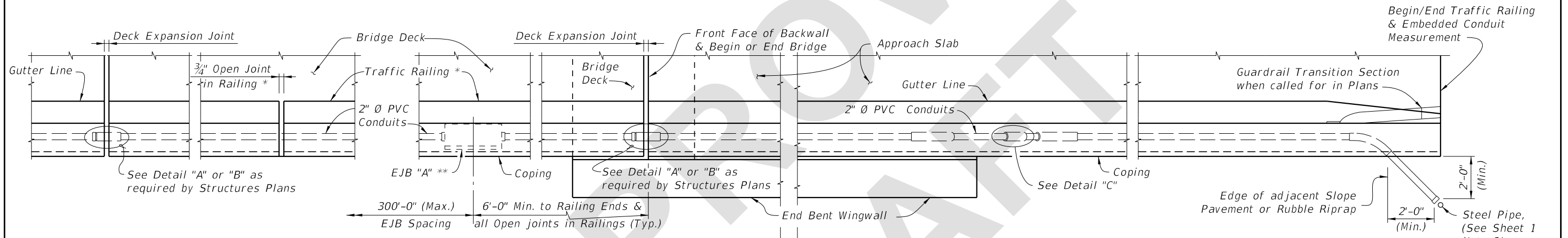
SECTION THRU TRAFFIC RAILING AT EJB (36" SINGLE-SLOPE SHOWN, 42" SINGLE-SLOPE SIMILAR)



SECTION THRU PEDESTRIAN / BICYCLE RAILING AT EJB

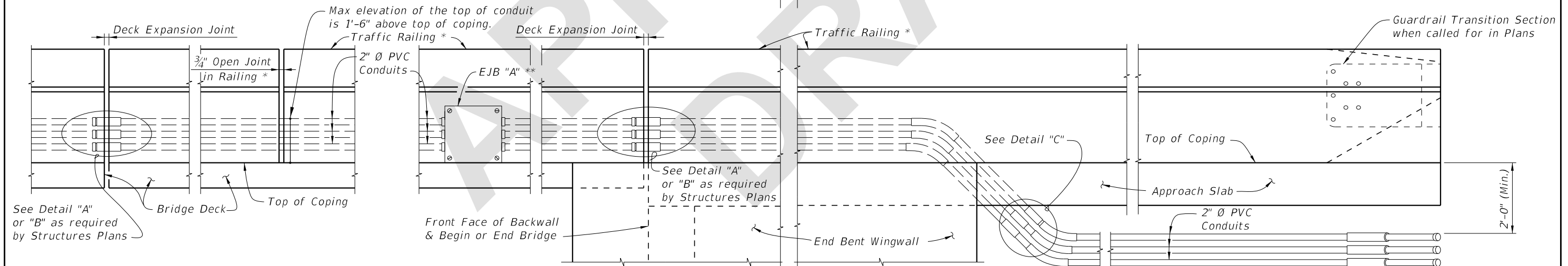


SECTION THRU TRAFFIC RAILING AT EJB (42" VERTICAL SHAPE SHOWN, 32" VERTICAL SHAPE SIMILAR)



PARTIAL PLAN VIEW ALONG BRIDGE

PARTIAL PLAN VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING




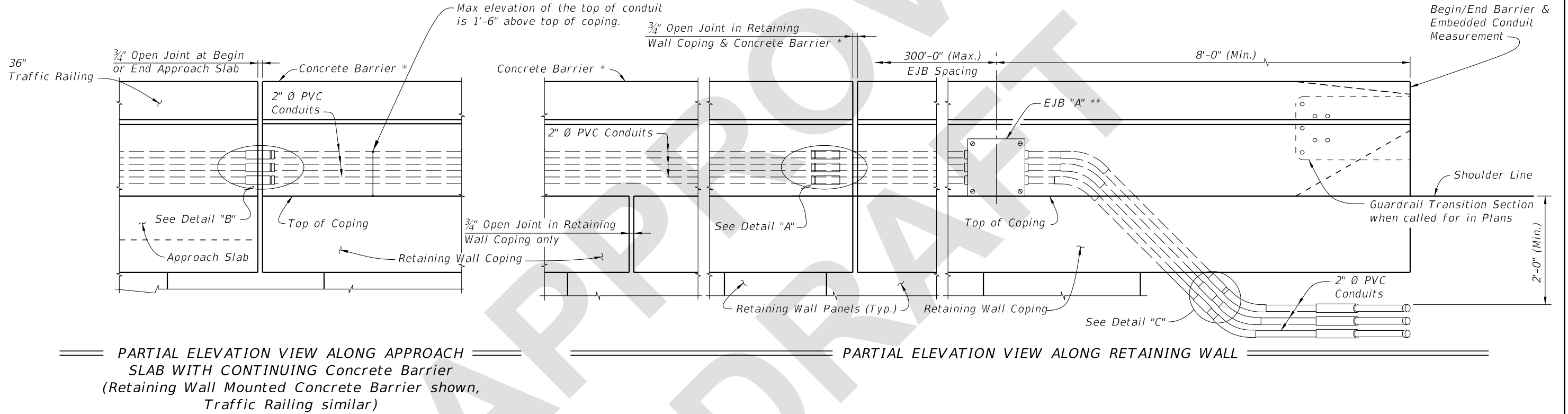
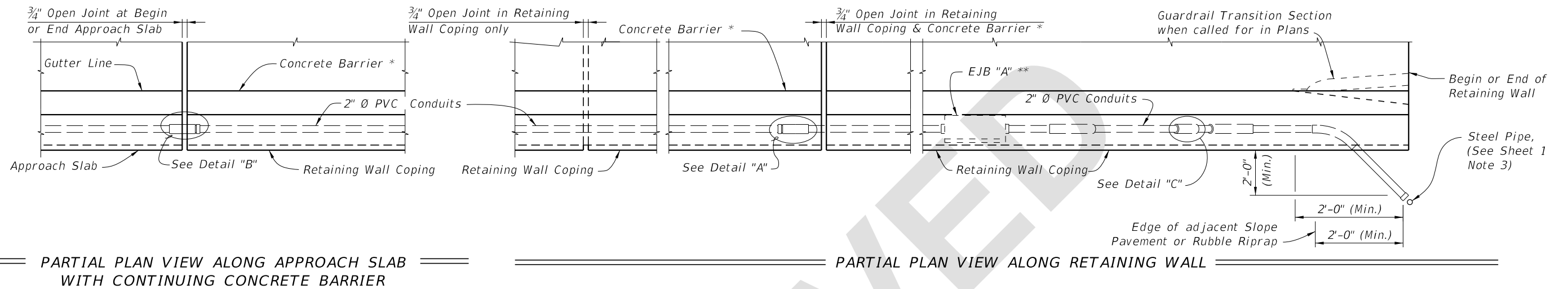
PARTIAL ELEVATION VIEW ALONG BRIDGE

PARTIAL ELEVATION VIEW ALONG APPROACH SLAB WITHOUT CONTINUING TRAFFIC RAILING

BRIDGE AND APPROACH SLAB WITH EDGE RAILING

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 ** EJB "A" shown EJB "B" similar. See EJB "B" Detail on Sheet 2.

APPROACH SLAB AND RETAINING WALL WITH CONCRETE BARRIER

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