

Chapter 26

Bridge Project Development

The following are changes, additions or deletions to the January 2013, Topic #625-000-007, Plans Preparation Manual (PPM), for use on Turnpike projects only.

26.9.4 Aesthetics

Add the following item

3. The general aesthetic theme (color, textures, finishes, etc.) for bridges, retaining walls and sound barrier walls should be coordinated with the Turnpike Project Manager and Turnpike Architecture.

26.10 Bridge Development Report (BDR) Submittal Checklist

Add the following to item 4

Bridge deck spread shall be evaluated for all bridges. The Bridge Development Report (BDR) shall include preliminary spread calculations for the bridge deck in order to determine whether additional drainage conveyance is required. Typical drainage conveyance costs may include, but are not limited to, additional shoulder width during construction, cross slope adjustment, bridge deck drains and conveyance systems. Costs for the bridge deck drainage may be significant when comparing alternative bridge designs.

Add the following section

26.19 Deviations from Structures Manual

26.19.1 Deck Thickness Determination

Structures Manual – Volume 1: Structures Design Guidelines - Section 4.2.2.D shall be modified as follows:

The thickness of CIP bridge decks on beams or girders for minor widening will be 8” minimum unless otherwise approved by the Turnpike Structures Design Engineer.

26.19.2 Miscellaneous Structures Splice

Full penetration welded shop splices are not allowed for uprights or chord members.

26.19.3 Bridge Deck Grooving

Structures Manual – Volume 1: Structures Design Guidelines – Section 7.7.A shall be modified as follows:

For widened superstructures where at least one traffic lane is to be added, add a note to the plans specifying that the new bridge floor finish match that of the existing bridge deck surface. If the existing deck is not grooved, and there is a history of crashes at that location, grooving shall be investigated during the design process.