

Chapter 26

Bridge Project Development

The following are changes, additions or deletions to the January 2003, Topic #625-000-007, Plans Preparation Manual (PPM) - English, for use on Turnpike projects only:

26.10.1 Typical Sections for Roadway and Bridge

Add the following sentences

“For new or replacement bridges on six-lane or more roadways, or roads that have the potential to be widened to six or more lanes, the cross slope of the bridge should be design at .03.”
Exceptions to this requirement should be discussed with the Turnpike’s Drainage and Structures Departments.

26.10.4 Bridge Hydraulics Report and Bridge Hydraulics Recommendation Sheet

Add the following as paragraph 2

Bridge deck spread shall be evaluated for all bridges. The Bridge Hydraulics Report (BHR) shall include 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 construction, cross slope adjustment, bridge deck drains and conveyance systems. Costs for the bridge deck drainage may be significant when comparing alternative bridge designs.

26.16 Bridge Load Rating

Add the following as paragraph 2

The Engineer of Record shall submit the load rating calculations with the final plans at the completion of the design and shall update the load rating at the completion of construction if necessary to reflect any change made to the design during construction.

26.18 Deviations from Structures Design Guidelines *Add this section*

26.18.1 Deck Slab Design

Bridge slabs shall be designed using the conventional method. Empirical Method is not allowed.