



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

DATE: October 27, 2021

TO: Project Engineers  
Project Design Engineers

FROM: B. C. Hanks, P. E.  
State Structures Engineer

SUBJECT: DESIGN MANUAL REVISIONS

Chapter 6 of the Design Manual has been revised to provide clarification and/or guidance on current design practice as follows:

Section	Summary of Revision(s)
6.2.2.1	Renamed section to Link Slabs.  Relocated link slab guidance from Section 6.2.2.4 to this section.  Added guidance to use link slab design tables when detailing link slabs for prestressed concrete girders.  Added guidance to debond link slabs a minimum of 5% of the span length and plan note to not allow stirrups, studs, or falsework/formwork attachments in the link slab region.  Added guidance and plan note to detail a contraction joint along the link slab over the bent control line.
6.2.2.2	Renamed section to Continuous for Live Load Deck Design
6.2.2.3	Renamed section to Bridge Deck Detailing
6.2.2.4	Renamed section to Bridge Deck Buildup
6.2.2.7	Added guidance and plan note to not weld metal stay-in-place forms to beam or girder flanges in the link slab region
6.2.2.8	Added guidance to detail construction joints at least 4 feet from end of link slabs.  Added guidance for detailing pour direction to facilitate screed operations.

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	Revised guidance to pour down the roadway grade.
6.7.3	Added guidance to detail fixed bearings at link slabs.

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The following Design Manual figures have been added or revised:

<b>Figure</b>	<b>Summary of Revision(s)</b>
6-5a	Added Link Slab Design Table for AASHTO Type II Girders.
6-5b	Added Link Slab Design Table for AASHTO Type III Girders.
6-5c	Added Link Slab Design Table for AASHTO Type IV Girders.
6-5d	Added Link Slab Design Table for 63” Modified Bulb Tee Girders.
6-5e	Added Link Slab Design Table for 72” Modified Bulb Tee Girders.
6-72	Updated to reference 6.2.2.2
6-140	Added to show top and bottom longitudinal reinforcement layout.
6-141	Added to show plan view of link slab details.
6-142	Added to show section view at link slab.
6-143	Added to show link slab pouring sequence.
6-144	Added to show pour direction guidance with examples.

The Design Manual and Design Manual Figures are available online.

These revisions are effective with the March 2022 letting.

BCH/THC/BAQ

Cc: G. Muchane, P. E.  
W. K. Fischer, P. E.  
B. Tharrington, P. E.  
T. M. Bruton, P.E.  
V. G. Mabry  
D. C. Muller, P. E., FHWA  
Division Bridge Program Managers  
Regional Bridge Construction Engineers  
Area Construction Engineers