



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: G. R. Perfetti, PE
State Bridge Design Engineer

DATE: July 23, 2010

SUBJECT: DESIGN MANUAL REVISION

Chapter 6 of the Design Manual has been revised. Most of the revisions entailed reorganizing the chapter and incorporating policy memoranda issued after November 2007. However, the sections listed below contain revisions that provide clarification and/or new guidance on current design practice.

Section	Comment
6.1.2	Appropriate use of box beams and cored slab bridges.
6.1.3	Deflection and camber sign convention.
6.2.2.8	Girder spacing when longitudinal joints are required.
6.2.2.9	Preliminary screeding elevations.
6.2.4.3	Use of aesthetic rails.
6.2.6	Closed Drainage System (standard drawing in development).
6.3.1.2	Prestressing strand order of preference.
6.4.2 & 6.5.2	Consideration of crane size for top-down construction.
6.6.1	Use of Grade HPS 50W steel.
6.6.2.3	Skew limits for connector plates.
6.6.10	Constructibility considerations and anticipated erection sequence.
6.7.3	Steel reinforced elastomeric bearings design using Method B (in development).
6.7.7	Use of elastomeric bearings for steel plate girder bridges with integral end bents.
6.9	Facilitating replication of LRFR summary.

The revised Chapter 6 has been incorporated into the Design Manual and is available via the Structure Design Unit web page.

GRP/GM/

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