



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: D.N. Snoke, P. E.
State Structures Engineer

DATE: March 13, 2026

SUBJECT: DESIGN MANUAL REVISIONS

The following sections in Chapter 7 of the Design Manual have been revised to provide clarification and/or guidance on current design practice:

Section	Summary of Revision(s)
7.2.4	Updated guidance for the construction of end bent wingwalls.
7.2.4	Updated note referencing installation of the drain pipe through the wingwall for consistency with the <i>2024 Roadway Standard Drawings</i> .
7.3.1	Provided guidance for use of MSE walls in front of integral end bents.
7.3.2	Clarified the acceptable size of bearing pad to be used with integral end bents and updated guidance on detailing the integral end bent diaphragm.
7.3.4	Updated the use of wingwall piles with integral end bents and provided guidance on where to detail the reinforcing steel for wingwalls in the plans.
7.4.5.3	Updated pier scour protection note for clarity.
7.5	Added new section with guidance on mass concrete and updated subsequent section numbers.

The updated chapters as well as the Design Manual figures have been incorporated into the Design Manual, and are available on the Structures Management Unit website.

These revisions are effective with the July 2026 letting.

DNS/NAP/AYG

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