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ENGINEERING PRODUCTION SUPPORT MEMORANDUM NO. 25-02

Regarding Revised Drainage Manual Chapter 7
Section 7.03.6 – Bridge End Drains

Effective immediately, the following section of the drainage manual chapter 7 has been revised. The revision was made to address the use of new rip-rap flume (D-FLU-3).

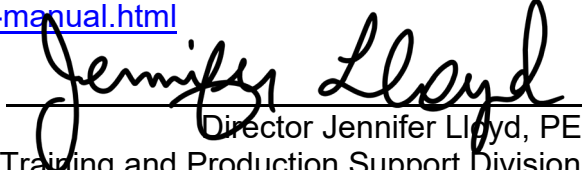
7.03.6 BRIDGE END DRAINS

The design and selection of bridge end drains is typically performed by the Structures Division. Refer to guidance on [Design Procedures for Hydraulic Structures](#) for a more detailed discussion of their design and hydraulic performance. The locations of all bridge end drains, pipes, pipe outlets, and bridge end flumes should be indicated on the proposed layout sheet before the submission of plans for Functional Design Plans Field Review.

Flows received by bridge end drain flume conveyed in a rip-rap trapezoidal ditch are shown on the Standard Roadway Drawing D-FLU-3. Payment items to construct rip-rap bridge end flume and a splash pad are shown on the standard drawing as well. Alternatively, bridge end drain grates may be used. Flows intercepted by bridge end drain grates may be conveyed underground in an 18-inch corrugated metal, HDPE or PVC bridge drain pipe to the toe of the bridge embankment, where they are discharged onto a splash pad. If used, the contractor may select either type of pipe for all bridge drains. Payment will be made under Item No. 610-07.03, 18-inch Pipe Drain (Bridge Drain) per linear foot.

The revised Design Drainage Manual Chapter 7 can be found on the TDOT's website:

<https://www.tn.gov/tdot/engineering-division/engineering-production-support/design-standards/drainage-manual.html>


Director Jennifer Lloyd, PE
Technical Training and Production Support Division

JKL: LHC: ARH: DS
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