



Connecticut DOT

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## ENGINEERING DIRECTIVE

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### **New Bridge Design Standard Practice Requirements For Foundations**

This directive is being issued to revise *Bridge Design Manual* (BDM) Article 5.14.1 - Structures over Waterways. The entire article has been rewritten and reorganized to address the design of foundations for both new and existing structures including bridges, 3-sided frames and walls retaining highways adjacent to or within waterways subjected to scour. The design of foundations for conditions resulting from a scour “design flood” and scour “check flood” are separated into 2 parts, foundation support and placement, and foundation evaluation for limit states, to differentiate and clarify requirements. Also included are directions for existing foundation components either wholly or partially left-in-place. The revisions are intended to complement, rather than repeat, requirements found in the CTDOT Drainage Manual.

Revisions to BDM Article 5.14.1 are presented in a 2-column format similar to the AASHTO LRFD Bridge Design Specifications. The BDM practice is in the left column and the BDM commentary is in the right column.

The revised Section 5 of the BDM is available via the [Bridge Design Manual](#).

Bridge designers are directed to implement this practice for all projects in design, effective immediately. Designers of projects being processed, advertised or in construction, shall contact the Principal Engineer to request direction.