

INDIANA DEPARTMENT OF TRANSPORTATION

INTER-DEPARTMENT COMMUNICATION
Standards Section -- Room N642

August 1, 1998

DESIGN MEMORANDUM 98-06
POLICY CHANGE

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ Richard VanCleave
Richard VanCleave
Design Policy Engineer, Technical Services Division

SUBJECT: Scour Protection at Three-Sided Precast Concrete Structure

EFFECTIVE: January 20, 1999, Letting

Scour protection is required if the project work includes a three sided precast concrete structure spanning a waterway. The designer must include either riprap or a concrete base slab to prevent significant scour from occurring. These requirements supersede the calculated theoretical scour requirements.

Riprap is the preferred method. The base slab method should only be used if the Department's Hydraulics Engineer determines the hydraulics of the crossing to require a smooth flowline for a state-route project, the consultant determines such for a local agency project, or the span width is less than 3 m (10 ft).

RVC:MED:alu

This memorandum was developed by Merrill Dougherty, Hydraulics Engineer, Design Division. He may be contacted at 317-232-6776.

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