



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 15-12 **Technical Advisory**

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

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SUBJECT: Design Resources

Recently several design resources have been posted to the Department website.

INDOT Typical Plans (Bridge). This set of typical bridge plans is based on the 1975 set of typical plan sheets that accompanied the Bridge Design Manual, commonly referred to as the Aqua Book. The plans have been updated to reflect INDOT's CAD Standards as well as provide guidance on the information to be provided on each sheet. For the time being, the updated typical plans should not be considered a standard, but rather a design tool to improve the consistency of information presented on INDOT plans. The INDOT Typical Plans are available at http://www.in.gov/indot/design_manual/.

Beam Details. The ASCE-INDOT Structures Committee has developed a standardized format for providing concrete beam details. The format is shown as Alternate Beam Details on the INDOT Typical Plans. The alternate beam details should not be considered a standard, but as a tool to provide concrete beam details in a consistent format to contractors and the concrete beam industry. Microstation .dgn files for the alternate beam details are available at <http://www.in.gov/dot/div/contracts/standards/bridges/bridges.html>. AutoCAD .dwg files created from .dgn files will be made available upon request. The AutoCAD .dwg files will require adjustments as line types and other features often do not translate well in the process.

Bridge Design Software Practice Pointers. The ASCE-INDOT Structures Committee has compiled a list of bridge design software and bridge detailing practice pointers. The list is not definitive, but serves to highlight known software idiosyncrasies and overlooked detailing elements. *Indiana Design Manual (IDM)* and *AASHTO LRFD Bridge Design Specifications* references have been added for convenience to identify how the software affects design requirements. Where no reference is given, the information is a preferred common practice or correction to a program glitch. The practice pointers are available at <http://www.in.gov/dot/div/contracts/standards/bridges/bridges.html>.

Sample Scour Report. The Hydraulics Office has created a scour report template for use when documenting scour calculations. The template provides a suggested order and layout for scour calculations. Use of the template format is not required, but rather intended as a resource when submitting scour calculations for review. The form is editable and can be modified to fit specific projects. The template is available at <http://www.in.gov/dot/div/contracts/design/dmforms/index.html>, Worksheet 203-3D Sample Scour Report, as well as on the *IDM* homepage.

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