



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

BDE PROCEDURE MEMORANDUM

NUMBER: 13-01

SUBJECT: BDE Manual Revision – Chapters 14, 17, 36, 56, and 57

DATE: February 14, 2013

Chapter 14, Chapter 17, Chapter 36, Chapter 56 and Chapter 57 of the BDE Manual have been revised due to the emphasis to include roundabouts as an alternative for intersection design. Please see Chapters 14, 17, 36, 56 and 57 of the BDE Manual on-line to view the revisions.

Background

Roundabouts are gradually being accepted as an alternative for intersection design as their benefits are now becoming recognized. When the current version of the BDE Manual was being revised, prior to 2010, consideration of roundabouts as an intersection alternative was uncommon and policy on roundabouts was still evolving.

The Transportation Research Board (TRB) recently released an NCHRP Report that updated a previous TRB study on the planning, design, construction, maintenance, and operation of roundabouts. The following sections of the BDE Manual were revised to incorporate the relevant parts of the NCHRP Report on roundabouts that are applicable to IDOT's mission.

- Figure 14-3.B was added as a model for the capacity analysis table to be used on IDS's with a roundabout design.
- Previous Figure 14-3.B was renumbered as Figure 14-3.C.
- Section 17-2.04 was added to provide policy for accommodating bicycles through roundabouts.
- Section 36-9 was completely re-written to update and make more comprehensive the policy on roundabouts.
- Section 56-2.08 was updated by requiring the use of street lighting at roundabouts.
- Section 57-4.12 was revised by adding SIDRA software to the list of software programs commonly used for signal timing and requiring the use of SIDRA for roundabout capacity analyses.

Engineer of Design and Environment

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