



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

## BDE PROCEDURE MEMORANDUM

**NUMBER:** 14-05

**SUBJECT:** BDE Manual Revision – Chapters 14 and 57

**DATE:** June 13, 2014

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Chapters 14 and 57 of the BDE Manual and intersection design study templates have been revised. Please see Chapter 14 and 57 of the BDE Manual on-line and the intersection design study templates to view the revisions.

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### Background

The intersection design study (IDS) template has gone many years without revising. The *Highway Capacity Manual* (HCM), of which the capacity information on the IDS is based, has been revised twice without updating the IDS template.

Updates to the IDS sheets:

- Previously, there were no IDS templates for all-way stop-controlled (AWSC), two-way stop-controlled (TWSC) and roundabout intersections. Templates for these types of intersections have been added to the IDOT CADD library.
- The signalized intersection IDS template has been revised by updating the Capacity Design Analysis table, Elements Controlling Design block, and the General Notes block to be current with the latest design practices and to be current with the 2010 HCM.

Section 14-2 was expanded to include discussions on AWSC, TWSC, and roundabout IDS's and has also been updated to be compatible with changes to the IDS template. A more current sample IDS has replaced the previous example.

Section 14-3 has been revised to be compatible with the revisions to the IDS template. The required information within an IDS has been further explained. Example Capacity Design Analysis tables for AWSC and TWSC intersections have been added and the Capacity Design Analysis table for signalized and roundabout intersections has been updated.

A new requirement to the IDS has been added to include design vehicle turning paths if generated by computer software.

**BDE PROCEDURE MEMORANDUM 14-05**

**Page Two**

**June 13, 2014**

Section 57-4.04 has been revised to include the traffic signal warrants from AASHTO's Manual on Uniform Traffic Control Devices. A statement has been added requiring the inclusion to the phase I report of a traffic count data sheet verifying that signal warrant(s) have been or have not been met. A discussion on signal warrants previously in Section 14-3 has been placed in this section, where the discussion is more appropriate.



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