



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

## BDE PROCEDURE MEMORANDUM

NUMBER: 13-03

SUBJECT: BDE Manual Revision – Chapter 54

DATE: March 1, 2013

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Chapter 54 of the BDE Manual has been revised to update the Pavement Design/Selection procedures. See Chapter 54 of the BDE Manual on-line to view the revisions

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### Background

In April 2011, significant changes were made to the mechanistic pavement design and the life-cycle costs analysis procedures. Since that time, the Department has completed additional research on rubblizing and undergone an audit by the Auditor General. These revisions address these two issues as well as make minor corrections. The following highlights the major revisions:

Section 54-1.04 was revised to clarify when mechanistic design procedures and life-cycle cost analyses are to be used. Language was also added to explain what types of cost adjustments are appropriate for use in an alternate bidding project.

Figure 54-2.D was revised to change the first subgrade treatment option from “Composite Aggregate” to “Aggregate Subgrade Improvement”.

Figure 54-4.D was revised to correct the notes and to change “Composite Aggregate” to “Aggregate Subgrade Improvement”.

Section 54-5.03 was revised to update the rubblizing design procedures, to implement limiting strain criterion design thickness for the overlay, and to clarify that rubblizing is a “reconstruction” technique.

Figure 54-7.C was revised to show all of the various overlay options based upon the type of route in Year 30.

Figure 54-7.D was simplified to only show the years/present worth factors that are actually used in the life-cycle cost analysis.

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Section 54-8 was revised to clarify the submittal requirements for a pavement design and to advertise the fact that approved designs are now posted on the web. Section 54-8.03 was added to institute a 5 year shelf-life for approved pavement designs.

Section 54-9 was revised to correct some of the design examples.

Engineer of Design and Environment \_\_\_\_\_

A handwritten signature in black ink, consisting of a large, stylized 'C' followed by a square and a large 'R'.