



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 18-06 Technical Advisory

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

FROM: /s/David Holtz
David Holtz
Director, Pavement Division

SUBJECT: Development of Full Depth Reclamation (FDR) Pavement
Projects as Partial 3R

REVISES: *Indiana Design Manual (IDM) Sections 304-6.01 thru 304-6.03*

EFFECTIVE: Immediately

This memo is to clarify the project development requirements for Full Depth Reclamation (FDR) pavement projects. FDR projects on non-freeway routes may be developed in accordance with IDM Chapter 56, Partial 3R Projects, as a structural treatment. FDR projects on freeway routes must be developed in accordance with IDM Chapter 54, Geometric Design of Existing Freeway (3R) or (4R) Partial Reconstruction.

The referenced IDM sections have been revised to remove project design criteria (4R and 3R) and are included on the following page.

Questions regarding FDR projects should be directed to the Office of Pavement Engineering, Kumar Dave at kdave@indot.in.gov.

304-6.01 New Alignment

New Alignment projects include pavement designs that include recommendations for preparation of the subgrade prior to placing the new pavement structure. Recommendations for New Alignment projects typically include a pavement thickness for both asphalt and concrete pavement. ~~New Alignment is (4R) work, resurfacing, restoration, rehabilitation, and reconstruction.~~

304-6.02 Pavement Reconstruction

Pavement reconstruction is defined as the replacement or reestablishment of the original pavement structural capacity by the placement of the equivalent or increased pavement structure on the existing alignment. Pavement replacement projects include removal of the existing pavement structure, including subbase, and preparation of the foundation soil and subgrade prior to placing a new pavement structure. Pavement damaged due to structural deficiencies should be considered for replacement. Pavement reconstruction may utilize either new or recycled materials for the reconstruction of the complete pavement structure. ~~Pavement reconstruction is (4R) work, resurfacing, restoration, rehabilitation, and reconstruction.~~

304-6.03 Pavement Rehabilitation

Pavement Rehabilitation is defined as ~~resurfacing, restoration, and rehabilitation (3R)~~ work consisting of structural enhancements that extend the life of an existing pavement and/or improve its structural capacity. A widening component may be included with a rehabilitation or structural overlay project. Rehabilitation techniques include restoration treatments and/or structural overlays. A pavement that is currently structurally insufficient or will be insufficient based on future traffic is a candidate for a rehabilitation type project.