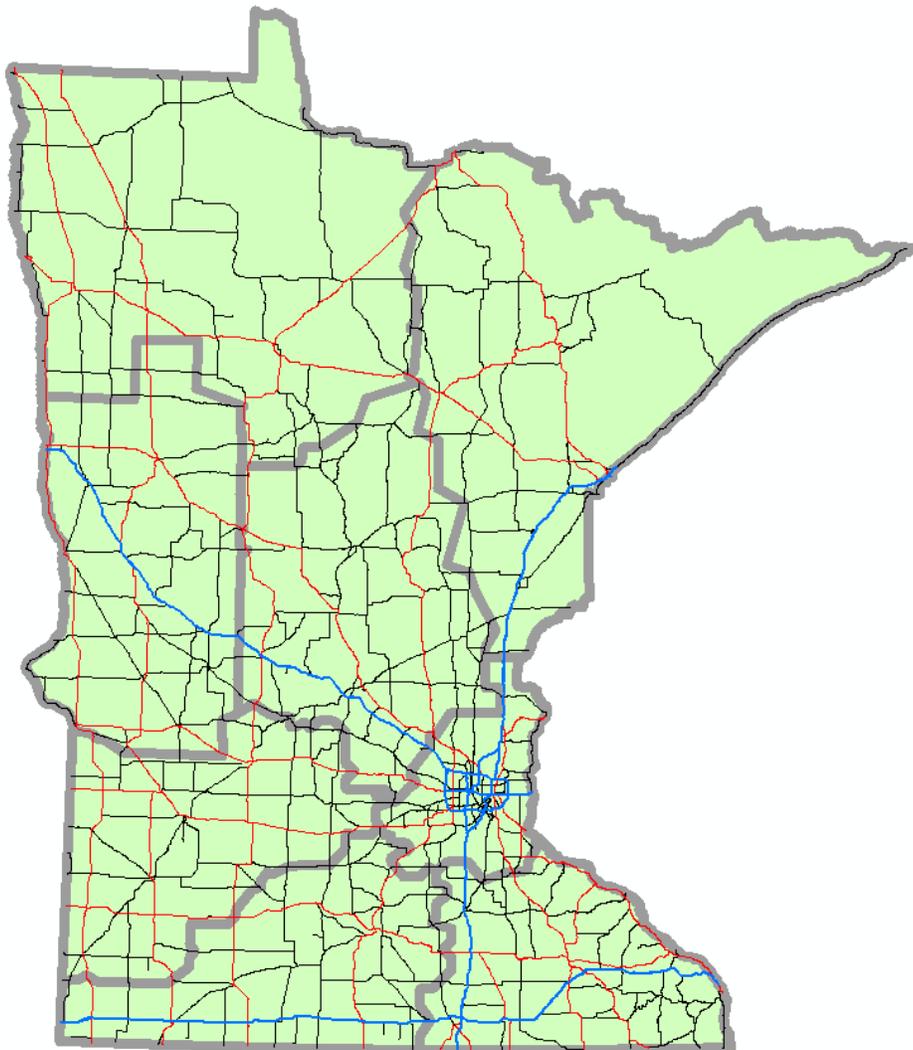


Chapter 1: Introduction

MnDOT Pavement Design Manual



July 10, 2019

A handwritten signature in black ink, which appears to read "Curt Tuszynski".

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Introduction

This manual contains standards and guidelines used for pavement design and related subjects. A list of topics that are within the scope of this manual is shown in **Section 100: Scope**.

This manual will be maintained by the MnDOT Pavement Design Unit (Office of Materials and Road Research) and will be available on the [MnDOT Pavement Design website](#). The manual will be updated annually with additional updates as required.

Updates, revisions and additions to this manual will be made available for review prior to being signed and approved. The procedure for review and approval is contained in **Section 110: Process for Review and Acceptance**.

Note: All references to “specifications” refer to the most current version of the **MnDOT Standard Specifications for Construction**.

Section 100: Scope

The scope of this manual includes the following subjects:

1. Collection and evaluation of data that is required for the design of pavements.
2. Designing pavements and specifying materials, which includes the determination of thickness and types of materials for pavement surfacing, base, subbase, and any prepared soil.
3. Construction and materials requirements that are typically specified in the project's Materials Design Recommendation (MDR). This includes such things as use of subsurface drains, use of geotextiles, PCC pavement joint design, centerline culvert treatments and pavement specifications.
4. The pavement-type selection process, including the identification of alternate designs, the development of a life-cycle cost analysis (LCCA), and alternate bidding.
5. The process for developing a Materials Design Recommendation (MDR) and Pavement Design Memorandum (PDM).

Section 110: Process for Review and Acceptance

1. Draft updates, revisions and additions will be distributed to the following entities for review and comment:
 - All MnDOT Materials Engineer Organization (MEO) and Soils Engineer Organization (SEO) members.
 - Any MnDOT Unit with expertise in the subject.
 - Pavement industry representatives, including: the Concrete Paving Association of Minnesota (CPAM) and the Minnesota Asphalt Pavement Association (MAPA).
 - The Minnesota Division office of the Federal Highway Administration (FHWA).
 - Anyone who has stated a desire to be included in the reviewing process.
2. Comments will be addressed and changes will be considered.
3. The final draft must be approved by the FHWA before continuing to the final step.
4. The revised manual will be considered to be in effect when it has been signed by the MnDOT Pavement Engineer and placed on the [MnDOT Pavement Design website](#).