



# Facilities Development Manual T417

Wisconsin Department of Transportation

## Chapter 3: Facilities Development Process

[Section 3-1](#) ..... Process Overview

Updated hyperlinks in Attachment 1.2.

## Chapter 6: Public Involvement

[Section 6-5](#) ..... Process Development

Added Stormwater guidance in 6-5-25.1.

## Chapter 7: Access Control

[Section 7-35](#) ..... Corridor Access Management

Added reference to FDM 11-5-2 in 7-35-10.

## Chapter 11: Design

[Section 11-1](#) ..... Introduction

Updated heading in table in Attachment 10.1.

[Section 11-4](#) ..... Reports

Updated guidance in 11-4-1 and 11-4-10, as well as in Attachment 10.5.

[Section 11-5](#) ..... General Design Considerations

Updated guidance in 11-5-2, 11-5-3, and 11-5-10.

[Section 11-15](#) ..... Cross-Section Elements for Modernization Projects on Rural Highways, Freeways and Interstates

Updated guidance in 11-15-1.

[Section 11-20](#) ..... Cross Section Elements for Modernization of Urban Highways

Updated hyperlinks in section/attachments.

[Section 11-26](#) ..... Roundabouts

Updated file type name in 11-26-5.4 and updated guidance in 11-26-20.

[Section 11-35](#) ..... Structures

Updated hyperlinks in section/attachments.

[Section 11-40](#) ..... Perpetuation and Rehabilitation Requirements for Highways

Updated hyperlinks and guidance in section and in Attachment 7.1.

[Section 11-45](#) ..... Other Elements Affecting Geometric Design

Updated guidance in 11-45-10.3 Roadside Hazard Analysis, 11-45-20.3.5.2 Mailboxes, 11-45-20.6.2 Design Study Report Phase, and Attachment 30.10.

[Section 11-50](#) ..... Traffic Control

Updated 11-50-55 Signing and hyperlinks throughout entire section.

[Section 11-55](#) ..... Special Features

Updated figure in 11-55-20 Overhead Sign Structures and hyperlinks in section.

## Chapter 12: Right-of-Way Plat and Exhibit Development

[Section 12-1](#) ..... General

Updated guidance in 12-1-20.3 about encroachments.

[Section 12-10](#) ..... Transportation Project Plat Preparation

Updated guidance in 12-10-3 and 12-10-10, as well as Attachments 1.1 and 1.5.

[Section 12-20](#) ..... Acquisition Exhibit Preparation

Corrected file name reference.

## Chapter 13: Drainage

[Section 13-1](#) ..... Drainage Practice

Updated hyperlinks in 13-1-30.5.1 Culverts.

**Chapter 14: Pavements**

[Section 14-7](#) ..... Traffic

Added truck classification hyperlink.

[Section 14-10](#) ..... Pavement Design

Updated Concrete Pavement Joint & functional thickness information; updated Attachment 10.6.

[Section 14-15](#) ..... Pavement Type Selection

Updated structural design, service life tables, and rehabilitation practices; updated Attachments 25.1 & 25.2.

[Section 14-25](#) ..... Pavement Rehabilitation

Added language for pavement widening in Cold In-Place Recycling construction.

**Chapter 15: Plan Preparation**

[Section 15-1](#) ..... Standards

Updated guidance in 15-1-10.7 about design considerations.

[Section 15-5](#) ..... Methods

Updated guidance throughout section; renumbered/deleted guidance in attachments.

**Chapter 18: Utility Coordination**

[Section 18-10](#) ..... Project Development Process

Updated guidance in 40.1-40.3; deleted Attachments 40.1 and 40.2.

**Chapter 19: Plans, Specifications, and Estimates**

[Section 19-1](#) ..... Introduction

Updates to Proprietary Projects in 19-1-5, updated attachment 5.1 and deleted Attachment 5.2.

[Section 19-10](#) ..... PS&E Transmittal and Composition

Numerous changes to guidance throughout section and attachments.

[Section 19-15](#) ..... Special Provisions

Updated guidance throughout section and in Attachment 15.1.

[Section 19-25](#) ..... Local Force Account Agreements

Edits to wording in attachments.

[Section 19-40](#) ..... Review

Updated guidance in Exhibit 1.1 and 1.2.

**Chapter 21: Hazardous Materials Investigation**

[Section 21-35](#) ..... Contaminated Site Assessment and Remediation

Updated Attachment 35.3.

**Chapter 23: Noise**

[Section 23-15](#) ..... Factors Influencing Noise Levels

Updated 23-15-1.1.3 about Truck Percentages.

[Section 23-35](#) ..... Noise Abatement Measures

Added subsection 23-35-7 about Noise Walls on bridges.