



FACILITIES DEVELOPMENT MANUAL

Wisconsin Department of Transportation

TABLE OF CONTENTS

Chapter 15: Plan Preparation

Section 15-1 Standards

<u>15-1-1</u>	General
<u>1.1</u>	Originator
<u>1.2</u>	Objective
<u>1.3</u>	Composition
<u>1.4</u>	Multiple Projects in One Plan or Multiple Project Plans within One Contract
<u>1.5</u>	Numbering of Plans
<u>1.6</u>	Typical Section and Detail Sheets
<u>15-1-4</u>	Preliminary Plan
<u>4.1</u>	General
<u>4.2</u>	Design Process
<u>4.3</u>	Content
<u>Attachment 4.1</u>	Preliminary Plan Checklist
<u>15-1-5</u>	Sample Plan: Improvement Projects
<u>15-1-6</u>	Sample Plan Abbreviated Project
<u>Attachment 6.1</u>	Sample Title Sheet - Abbreviated Plan
<u>Attachment 6.2</u>	Sample Typical Section Sheet - Abbreviated Plan
<u>Attachment 6.3</u>	Estimate of Quantities
<u>Attachment 6.4</u>	Sample Plan Sheet - Abbreviated Plan
<u>15-1-10</u>	Title Sheets
<u>10.1</u>	Project Title
<u>10.2</u>	Project Numbers
<u>10.3</u>	Margin Information
<u>10.4</u>	Order of Sheets
<u>10.5</u>	Location Sketch
<u>10.6</u>	State Map
<u>10.7</u>	Design Designation
<u>10.8</u>	Net Length of Center Line
<u>10.9</u>	Conventional Symbols
<u>10.10</u>	Signatures
<u>10.11</u>	Signature Blocks
<u>10.12</u>	Coordinates
<u>Attachment 10.1</u>	Signature Blocks for WisDOT Projects
<u>Attachment 10.2</u>	Signature Blocks for Local Road Projects
<u>15-1-12</u>	General Notes, Railroad, and Contacts Sheet
<u>12.1</u>	General Notes
<u>12.2</u>	Abbreviations
<u>12.3</u>	Utilities / Railroads Listing
<u>12.4</u>	DNR Liaison
<u>15-1-14</u>	Project Overview
<u>15-1-15</u>	Typical Section Sheet

15-1-20Detail Sheets

20.1.....Project Overview

20.2.....Construction Details

20.3.....Intersection and Interchange

20.4.....Curb Ramps

20.5.....Contour Maps

20.6.....Cross Section Match Line

20.7.....Erosion Control and Drainage

20.8.....Storm Sewer and Utilities

20.9.....Planting

20.10.....Permanent Signing

20.11.....Lighting

20.12.....Traffic Signals

20.13.....Pavement Marking

20.14.....Traffic Control/Stage Construction

20.15.....Fencing

20.16.....Alignment

20.17.....Other Details

15-1-25Estimate of Quantities Sheet

15-1-30Miscellaneous Quantities Sheet

15-1-35Plan View or Plan and Profile Sheet

35.1.....Scales

35.2.....Plan Requirements

35.3.....Profile Requirements

15-1-36Standard Detail Drawings

15-1-37Sign Plates and/or Sign Details

15-1-40Earthwork Data Sheet

15-1-45Cross Section Sheets

45.1.....Scale

45.2.....Earthwork Block

45.3.....Cross Section

45.4.....Begin and End Notations

45.5.....Culvert Pipe and Cattle Pass Notation

Section 15-5 Methods

15-5-1 General

1.1.....Surveying and Mapping Section

1.2.....Plan Development

1.3.....Electronic Plans (E-Plans)

15-5-2 CADDs Preparation Standards

2.1.....Design Files

2.2.....Graphical Parameters

15-5-3 CADDs Directory and File Name Convention

3.1.....Project Directory Conventions

3.2.....File Naming Conventions

3.3.....Object Naming Conventions

Attachment 3.1.....CADDs AutoCAD Civil 3D Project Folder Structure Standard

Attachment 3.2.....CADDs AutoCAD Civil 3D File and Object Naming Abbreviation Standard

Attachment 3.3.....CADDs AutoCAD Civil 3D File and Layout Naming Standard

Attachment 3.4.....CADDs AutoCAD Civil 3D Object Naming Conventions

Attachment 3.5.....Required PlatExp Folder Content

15-5-4CADDs Block and Linetype Files

15-5-5Plan Sheet Borders

5.1.....Size

5.2.....Electronic Documents

5.3.....Structure Plans and Details

15-5-7Design Models

7.1.....General Requirements

7.2.....Surface Models

Attachment 7.1.....Surface Model Types

15-5-10Electronic Plans

15-5-15Standard Detail Drawing Spreadsheet

15-5-25Standard Abbreviations

25.1.....General

Attachment 25.1.....List of Standard Abbreviations

15-5-30Conventional Signs and Symbols

30.1.....General

Section 15-10 Review

15-10-1Plan-in-Hand Field Inspections

15-10-5Pedestrian Considerations