Chapter 1: Introduction

Section 1-1 General

Chapter 2: Project Management

Section 2-1 Introduction and Definitions
Section 2-5 Program vs. Project Management
Section 2-10 Performance Management
Section 2-15 Project Integration Management
Section 2-20 Project Type - Design/Planning
Section 2-25 Design Phase
Section 2-30 Construction Phase

Chapter 3: Facilities Development Process

Section 3-1 Process Overview
Revise FDM 3-1 (Facilities Development Process – Process Overview) to combine and restructure phases to accommodate current procedures along with Asset Management and Performance-Based Practical Design principles.

Revise 3-1 Attachments 1.1 (Facilities Development Process) and 1.2 (Facilities Development Process Phase Activities) to combine and restructure phases to accommodate current procedures along with Asset Management and Performance-Based Practical Design principles.

Section 3-4 Environmental Scoping, Evaluation and Documentation
Section 3-5 Improvement Concepts
Add new section 3-5-1 (Asset Management) that incorporates former subsection FDM 3-5-2 (Highway Improvement Type Definitions).

Revise 3-5-5 (Federally Funded Preventive Maintenance Projects) guidance. Removed design specific guidance for preventive maintenance (PM) projects since it follows the procedures for Preservation Improvement Strategy projects. The WisDOT/FHWA PM agreement remains in place as the mechanism that allows for federal funding of PM type work.

Move 3-5 Attachments 5.2 (DOJ/DOT Joint Technical Assistance on the Title II of the Americans with Disabilities Act Requirements to Provide Curb Ramps when Streets, Roads or Highways are Altered through Resurfacing) and 5.3 (Glossary of the Terms for DOJ/FHWA Joint Technical Assistance on the ADA Title II Requirements to Provide Curb Ramps when Streets, Roads or Highways are Altered through Resurfacing) to FDM 11-46.

Section 3-10 Scheduling and Programming
Section 3-15 Complex or Unique Projects
Move 3-15-25 (Metric As Built Plans) to FDM 11-1-25.

Section 3-20 Local Program Related Topics
Revise 3-20 (Local Program Bridge Approach Length Eligible for Federal Funding) guidance to address local bridge program funding changes.

Revise 3-20 Attachment 1.1 (Local Bridge Improvement Assistance Program Replace in Kind Funding Policy) guidance.
Chapter 4: Highway Systems

Section 4-1 Introduction and Definitions
Section 4-5 System Alterations
Section 4-10 Special Bridges
Section 4-15 Detours and Temporary Routes

Chapter 5: Agency Coordination

Section 5-1 General Process Coordination
Section 5-2 U.S. Department of Transportation
Section 5-5 Other Federal Agencies
Section 5-10 State Agencies
Section 5-15 Local Agencies
Section 5-20 Other States

Chapter 6: Public Involvement

Section 6-1 Introduction
Section 6-5 Process Development
Section 6-10 Public Involvement Meetings
Section 6-15 Public Hearings

Chapter 7: Access Control

Section 7-1 Introduction
Section 7-5 Access Management System Plan
Section 7-10 Methods of Control
Section 7-15 Administrative Access Control (Control by Section 84.25)
Section 7-20 Purchased Access Control (Control by Section 84.09)
Section 7-25 STH Connection Permitting
Section 7-30 Access Covenants
Section 7-35 Corridor Access Management
Section 7-40 Freeway/Expressway Designation Statute 84.295

Revise 7-40 Attachment 10.1 (Sample Finding Determination and Order, DT2169) and Attachment 10.3 (Sample Notice and Order Establishing Locations and Right of Way Widths, DT1536 and Attachment) to update form.

Add 7-40 Attachment 10.8 (Notice of Intent to Designate (NOITD)).

Section 7-45 Interstate Access Points
Section 7-50 Land Division Review
Section 7-55 Scenic Easements

Chapter 8: Consultant Services

Section 8-1 Introduction
Section 8-5 Securing Consultant Services
Section 8-10 Contract Negotiation
Section 8-15 Contracts
Section 8-20 Contract Procedures
### Section 8-25 .......... Contract Management

### Chapter 9: Surveying and Mapping

- **Section 9-1  ............ Introduction**
- **Section 9-5  ............ Policies**

**Revise 9-5-1.5 (Procedure to Perpetuate USPLSS and/or Land Parcel Boundary Monuments) to clarify item 8 and to replace the word landmark with either monument or survey monument.**

- **Section 9-10 .......... Public Relations**
- **Section 9-20 .......... Spatial Reference Systems**
- **Section 9-25 .......... Monumentation**

**Revise 9-25-6 (Right of Way Monumentation) to update language.**

- **Section 9-30 .......... Real Time Kinematic (RTK) Surveys**
- **Section 9-35 .......... Horizontal Control - Traverse**
- **Section 9-40 .......... Vertical Control**
- **Section 9-43 .......... Planning and Scheduling**
- **Section 9-45 .......... Geospatial Projects**
- **Section 9-50 .......... Alignments - Reference Line With Stationing**
- **Section 9-55 .......... Drainage Structure Surveys**
- **Section 9-60 .......... Structure Surveys**
- **Section 9-65 .......... Cross Sections/Digital Terrain Models (DTMs)**
- **Section 9-70 .......... Topography**
- **Section 9-75 .......... Right-of-Way**
- **Section 9-80 .......... Survey Mathematics**

### Chapter 10: Erosion Control and Storm Water Quality

- **Section 10-1  ............ General Introduction**

**Revise 10-1-1 (Introduction) to update contact information.**

**Revise title and replace information in 10-2-2.2 (Transportation Construction General Permit) to introduce new guidance for WisDOT's general WPDES permit.**

**Add 10-2-2.2.1 (Area of Land Disturbance) new guidance to define applicable land disturbance activities.**

**Revise title and replace information in 10-2-2.3 (Transportation Separate Storm Sewer System Permit) to introduce new guidance for WisDOT's general WPDES permit.**

- **Section 10-5 .......... Developing An Erosion Control Plan**
- **Section 10-10 .......... Erosion and Sediment Control Devices**
- **Section 10-15 .......... Appendix**
- **Section 10-25 .......... Stormwater Quality**
- **Section 10-30 .......... Stormwater Quality Analysis**
- **Section 10-35 .......... Stormwater Control Measure Selection**
- **Section 10-40 .......... Maintenance Best Management Practices (BMPs)**

### Chapter 11: Design

- **Section 11-1  ............ Introduction**
Revise 11-1-1 (General Design Introduction) to update contacts. Reformat and update subsection for asset management and current performance based practical design guidance.

Revise, retile and renumber former FDM 11-1-10 (Performance Based Practical Design) and move to FDM 11-1-5 (Asset Management by a Practical Design System Preservation Approach) to update guidance to incorporate asset management and Performance Based Practical Design (PBPD) language.

Revise 11-1-5.2 (WisDOT Perspective on Performance-Based Practical Design) to update to incorporate Asset Management and current Performance Based Practical Design principles.

Add new section FDM 11-1-10 (Application of Design Criteria) and FDM 11-1 Attachment 10.1 (Improvement Strategies, Improvement Concepts, and Applications of Design Criteria) from former guidance FDM 11-1-1 (Application of Standards) and revise to add guidance for S-1, S-2, and S-3 application definitions.

Add 11-1 Attachment 10.1 (Improvement Strategies, Improvement Concepts and Standard Applications) to incorporate asset management and current performance based practical design principles.

Revise and renumber former FDM 11-1-4 (Programmatic Exception to Standards) that linked to FDM 11-40-4 (Application of Safety Screening Analysis (SSA) for Programmatic Exception to Standards (PES)) guidance to note that PES process has been superseded with the Safety Screening Process (SCP).

Move former section FDM 11-1-2 (Exceptions to Standards) to FDM 11-1-20 and revise title to Design Justification (Formerly Exceptions to Standards). Delete 11-1 Attachment 2.1 (Exceptions to Standards Approval Flowcharts) and Attachment 2.2 (Exceptions to Standards: Sample Transmittal Letters and Title Sheets). Revise guidance to conform to asset management.

Move former FDM 11-1-3 (Metric and Design) and incorporate former FDM 3-15-25 (Metric As Built Plans) into this new subsection.

Section 11-2 .......... Alternative Contracting
Section 11-3 .......... Community Sensitive Design

Revise 11-3 (Design – Asset Management) to include Asset Management applications.

Revise 11-3 Attachments 5.1 to 5.14 for asset management.

Section 11-4 .......... Reports

Revise 11-4-1 (Concept Definition Report) to reflect asset management language and update organization information.

Add 11-4-3 (Final Scoping Certification) guidance to define the asset management final scoping certification process.

Add 11-4 Attachment 3.1 (Final Scope Certification Document Template).

Revise 11-4-10 (Design Study Report) guidance to reflect asset management changes. Update terminology from “Exception to Standards” to “Design Justification” and provide procedure for design justification approval by FHWA. Also, update changes to FDM 3-1 phases and add new DSR formats for asset management.

Revise 11-4 Attachments 10.1 to 10.9 to update and add DSR templates for asset management projects. Add design justifications approval signature page, local and NHS local program signature pages and renumber attachments.

Section 11-5 .......... General Design Considerations
Section 11-10 .......... Design Controls

Revise 11-10 Attachment 5.2 (Sight Distance Categories and Applications), Attachment 5.4 (Sight Distance for Crest Vertical Curves), Attachment 5.6 (Sight Distance for Sag Vertical Curves), and Attachment 5.14 (Sample Problem - Intersection Sight Distance) for asset management.

Section 11-15 .......... Cross-section Elements for Modernization Projects on Rural Highways, Freeways and Interstates

Revise 11-15 Attachments 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 and 1.7. Add Attachment 1.18.

Section 11-20 .......... Cross Section Elements for Modernization of Urban Highways

Revise 11-20 (Design – Cross Section Elements for Modernization of Urban Highways) guidance to reflect asset management changes to text and attachments.
<table>
<thead>
<tr>
<th>Section 11-20</th>
<th>Attachments 1.1 to 1.8 guidance to reflect asset management changes.</th>
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<tr>
<td>Section 11-25</td>
<td>Intersections at Grade</td>
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<tr>
<td>Add new subsection 11-25-1.4.2 (OSOW for Perpetuation and Rehabilitation Projects) to add guidance for Perpetuation and Rehabilitation projects.</td>
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<td>Revise 11-25-2</td>
<td>(Design Criteria and Guidelines) to add guidance regarding perpetuation and rehabilitation projects.</td>
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<td>Revise 11-25 Attachment 2.2</td>
<td>(WisDOT Interim Policy on Checking Criteria for OSOW-ST and OSOW-MT Vehicles at Intersections) to add guidance regarding perpetuation projects.</td>
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<td>Roundabouts</td>
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<td>Section 11-30</td>
<td>Interchange</td>
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<td>Section 11-35</td>
<td>Structures</td>
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<td>Revise 11-35-5</td>
<td>(Temporary Bridges) to update guidance regarding temporary bridges.</td>
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<tr>
<td>Revise 11-35-1.1</td>
<td>(Three Lane Bridge Criteria – General) guidance and refer user to other section of FDM for work zone highway capacity analysis.</td>
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<td>Delete former subsection 11-35-10.2</td>
<td>(Highway Capacity Analysis). Renumber remaining subsections.</td>
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<td>Revise 11-35-10.3</td>
<td>(Bridge Rehabilitation and Widening Practices) guidance.</td>
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<td>Section 11-38</td>
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<td>Add new section 11-38</td>
<td>(Design - Safety Certification Analysis) to add guidance for WisDOT’s safety certification process.</td>
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<td>Section 11-40</td>
<td>Perpetuation and Rehabilitation Requirements for Highways</td>
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<td>Revise 11-40</td>
<td>(Design - Perpetuation and Rehabilitation Requirements for Highways) and retitle entire subsection and replace text with updated information.</td>
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<td>Revise 11-40 Attachment 7.1</td>
<td>(S-2 Application Design Criteria for Rehabilitation Projects), Attachment 7.2 (Design Standards for Rehabilitation Projects on Rural State Trunk Highways Functionally Classified as Arterials), Attachment 7.3 (Design Standards for Rehabilitation Projects on Rural State Trunk Highways Functionally Classified as Collectors and Locals), Attachment 7.4 (Design Standards for Rehabilitation Projects on Rural County Trunk Highways Functionally Classified as Arterials), and Attachment 7.6 (Design Standards for Rehabilitation Projects on Rural County Trunk Highways Functionally Classified as Collectors and Locals).</td>
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<td>Other Elements Affecting Geometric Design</td>
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<td>Revise 11-45-2.3.6.2.1</td>
<td>(Sight Distances) to change wording from exception to standards to design justification.</td>
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<td>Revise 11-45-2.3.6.3.1</td>
<td>(Standard Barrier Sections) guidance regarding footings.</td>
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<td>Add 11-45-4</td>
<td>(Roadside Design Application - Perpetual and Rehabilitation Improvements) guidance to address asset management improvement projects.</td>
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<td>Add 11-45 Attachment 4.1</td>
<td>(Roadside Hazard and Guardrail Flowchart for Perpetuation and Rehabilitation Highway Improvement Projects) guidance.</td>
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<td>Section 11-46</td>
<td>Bicycle and Pedestrian Accommodations</td>
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<td>Added 11-46-1.1.3</td>
<td>(Asset Management guidance).</td>
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<td>Added 11-46-1.1.4</td>
<td>(Asset Management and ADA Curb Ramp Compliance guidance).</td>
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<td>Added 11-46-1.1.5</td>
<td>(ADA Curb Ramp Compliance and Right-of-Way Requirements guidance).</td>
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<td>Added 11-46-1.1.6</td>
<td>(Bikeways guidance).</td>
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<td>Added 11-46-1.1.7</td>
<td>(Sidewalks guidance).</td>
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<td>11-46-10.2.2</td>
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<td>Added (Curb Ramp Construction Details)</td>
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<td>Revise (Curb Ramp Design Considerations) to update guidance.</td>
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<td>11-46-15.2</td>
<td>Revise (Design Guideline and Basic Improvements) to update guidance.</td>
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<td>11-46-15.4</td>
<td>Revise (Rural On-road Bicycle Accommodations) to update guidance.</td>
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<td>11-46-15.4.1</td>
<td>Revise (Rural Paved Shoulders) to update guidance.</td>
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<td>11-46-15.8</td>
<td>Revise (Manhole and Utility Covers) to update guidance.</td>
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<td>Revise (Responsibilities) guidance.</td>
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<td>Revise (TMP Strategies Matrix Overview) guidance to add examples of services that are not eligible for funding.</td>
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<td>Revise (Bureau of Traffic Operations Involvement) guidance.</td>
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<td>Revise (Overhead Sign Supports) to revise guidance.</td>
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<td>Revise (Detours)</td>
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**Chapter 12: Right-of-Way Plat Development**

**Chapter 13: Drainage**

Revise 13-1-1 (Drainage Practice Background – Introduction) to update the author.
| Revise 13-1-10.2 (Bridge and Box Culvert Design) to describe current process for Structure Survey Report (SSR) e-submittal. |
| Revise 13-1-15.1 (Application) to add a link for culvert replacement information for perpetuation and rehabilitation projects. |
| Revise 13-1-15.2 (Selection Standard) to add a link for culvert replacement material information for perpetuation and rehabilitation projects. |
| Revise 13-1-15.8 (Tied Joints) to clarify information for reinforced concrete pipe culvert tied joints. |
| Revise 13-1-15.9 (Height of Cover for Culvert Pipes) to clarify information. |
| Revise 13-1-17.6.2 (Tied Joints) to clarify information. |
| Revise 13-1-17.7 (Height of Cover for Storm Sewer) to clarify information. |
| Revise 13-1-25 (Design Criteria) to clarify information regarding bedding. |
| Add 13-1-30 (Culvert Replacement and Analysis for Perpetuation and Rehabilitation Projects) to describe culvert replacement and analysis for perpetuation and rehabilitation projects including inspection and design procedures, materials, and end treatments. |
| Add 13-1 new Attachments 30.1 (Guidelines for Defining a Rural Area) and 30.2 (Culvert Sizing Quick Check). |

### Section 13-5 .......... Field Work

### Section 13-10 .......... Hydrology

### Section 13-15 .......... Hydraulic Design of Culverts

### Section 13-20 .......... Hydraulic Design of Bridges

### Section 13-25 .......... Storm Sewer Design

### Section 13-30 .......... Channels and Road Ditches

### Section 13-35 .......... Erosion and Water Pollution Control

### Section 13-40 .......... Subgrade Drainage

### Section 13-45 .......... Culvert and Storm Sewer Rehabilitation and Replacement

Add FDM 13-45 (Culvert and Storm Sewer Rehabilitation and Replacement) guidance for culvert and storm sewer rehabilitation and replacement including sliplining and trenchless technology.

Add FDM 13-45 Attachment 10.1 (Culvert Liner Hydraulic Analysis Example).

### Chapter 14: Pavements

### Section 14-1 .......... General

### Section 14-5 .......... Base Course

### Section 14-10 .......... Pavement Design

### Section 14-15 .......... Pavement Type Selection

### Section 14-25 .......... Pavement Rehabilitation

### Chapter 15: Plan Preparation

### Section 15-1 .......... Standards

### Section 15-5 .......... Methods

Revise 15-5 Attachments 3.3. (CADDs AutoCAD Civil 3D File and Layout Naming Standard) and Attachment 3.6 (CADDs MicroStation Base File Naming Standard) guidance.

### Section 15-10 .......... Review

### Chapter 17: Railroad Coordination

### Section 17-1 .......... Overview
Section 17-5 .......... Background
Section 17-10 ......... Agency Responsibilities
Section 17-15 ........ Types of Programs
Section 17-20 ........ Implementing Projects
Section 17-25 ........ Active Warning Device Projects
Section 17-30 ......... Crossing Surface Projects
Section 17-35 ......... Crossing Closure and Consolidation
Section 17-40 ......... Separation Projects
Section 17-45 ......... Other Safety Funded Projects
Section 17-50 ......... Contract Administration
Section 17-55 ......... Property
Section 17-60 ......... Design Considerations

Chapter 18: Utility Coordination

Section 18-1 .......... Introduction
Section 18-5 .......... Agency Responsibilities and Duties
Section 18-10 ......... Project Development Process
Section 18-15 ......... Utility Company Rights and Obligations
Section 18-20 ......... Typical Processing of a Utility Project

Chapter 19: Plans, Specifications, and Estimates

Section 19-1 .......... Introduction
Section 19-5 ............. Estimates

Revise 19-1-3 (Project Letting Process (PLP)) guidance.

Revise 19-5-3.2 (Usage Guidance for Other Items) regarding the use of the conversion factors table for granular materials.

Revise 19-5-3.3.3 (Rounding Quantities) guidance and add guide to rounding quantities tables.

Section 19-10 ...... PS&E Transmittal and Composition
Section 19-15 ...... Special Provisions
Section 19-21 ...... Quality Management Program

Revise 19-21-2.1.1 (Ride Quality) to update reference to standard specifications 740.

Move and revise 19-21-2.1.4 (QMP Base Aggregate) guidance from 19-21-5.2.1.

Moved former guidance for 19-21-5.2.1 (QMP Base Aggregate) to 19-21-2.1.4 and revise. Renumber remaining subsections.

Revise 19-21-10.1.1 (HMA Pavement Percent Within Limits (PWL) QMP – General Information) to add link for QMP website for SPV templates.

Section 19-22 ...... Post-Advertisement Activities
Section 19-25 ...... Local Force Account Agreements
Section 19-30 ...... Razing and Removal Contracts
Section 19-35 ...... TEA and EDA Funded Projects
Section 19-40 ...... Review
## Chapter 20: Environmental Documents, Reports and Permits

- **Section 20-1** Introduction
- **Section 20-5** Major Laws, Regulations and Agreement Documents
- **Section 20-10** Roles and Responsibilities in the Environmental Documents Process
- **Section 20-15** Environmental Document Types
- **Section 20-20** Categorical Exclusion Documents
- **Section 20-25** Environmental Assessments
- **Section 20-30** Environmental Impact Statements
- **Section 20-35** Environmental Document Review and Approvals
- **Section 20-40** Re-evaluating Environmental Documents
- **Section 20-45** Other Required Documents
- **Section 20-50** Permits

## Chapter 21: Hazardous Materials Investigation

- **Section 21-35** Contaminated Site Assessment and Remediation

## Chapter 22: Air Quality

- **Section 22-1** Highway Air Quality
- **Section 22-5** Laws & Regulations Pertaining To An Air Quality Analysis
- **Section 22-15** Factors Influencing Highway Air Quality
- **Section 22-20** Mobile3 Emission Factors
- **Section 22-25** Excess Emissions and Delay
- **Section 22-30** Ambient Air Quality
- **Section 22-35** Prediction Techniques
- **Section 22-40** Nonattainment Areas
- **Section 22-45** Documentation of Air Quality Analysis
- **Section 22-50** Construction or Modification and New Operation Permit

## Chapter 23: Noise

- **Section 23-1** General
- **Section 23-5** Laws, Regulations and Policy Pertaining To Noise Analysis
- **Section 23-10** Project Analysis
- **Section 23-15** Factors Influencing Noise Levels
- **Section 23-20** Existing Noise Levels
- **Section 23-25** Future Sound Levels
- **Section 23-30** Noise Impact Determination
- **Section 23-35** Noise Abatement Measures
- **Section 23-40** Construction Noise
- **Section 23-45** Documentation of Noise Analysis
- **Section 23-50** Providing Sound Level Information to Local Officials

## Chapter 24: Land and Water Resources Impacts

- **Section 24-1** Introduction
| Section 24-5 | Aquatic Systems |
| Section 24-10 | Terrestrial Systems |
| Section 24-15 | Wildlife |
| Section 24-20 | Endangered Species |
| Section 24-25 | Bibliography |

| Chapter 25: Socio-Economic Factors |
| Section 25-1 | Introduction |
| Section 25-5 | Impact Categories |
| Section 25-10 | Impact Identification |
| Section 25-15 | Impact Evaluation |
| Section 25-20 | Impact Mitigation |

| Chapter 26: Cultural Resource Preservation |
| Section 26-1 | General |
| Section 26-5 | Section 106 Process |
| Section 26-10 | Reporting |
| Section 26-20 | Compensation Regarding Historic Preservation |
| Section 26-25 | Burial Sites & Burial Related Discoveries |
| Section 26-30 | Qualifications |
| Section 26-35 | Other Applicable Laws |

| Chapter 27: Planting and Aesthetic Design |
| Section 27-1 | Introduction |
| Section 27-10 | Visual Impact Assessment |
| Section 27-20 | Planting Design |
| Section 27-25 | Plant Materials |