

Part Two - Plan Preparation

Chapter One - General Plan Information

- 1-1 Lettering on Plans
- 1-2 Scale on Plans
- 1-3 Conventional Symbols
 - (A) Reserved for future use
 - (B) North Arrows
 - (C) Graphic Scales
- 1-4 Standard Sheets For Plan Preparation

Chapter Two - Project Numbers

- 2-1 Project Numbers on Plans
 - Figure 1 - Title Sheet With P.E. Authorization Only
 - Figure 2 - Title Sheet With Right of Way Authorization Added
 - Figure 3 - Title Sheet With Construction Authorization Added
- 2-2 Numbering Systems For Highway Projects
- 2-3 State-wide County Numbering System
- 2-4 Identification of Prefix Designations For Federal Aid Projects

Chapter Three - Title Sheet

- 3-1 Purpose
 - (A) Location of Project and Type of Work
 - (B) Project Layout
 - (C) Vicinity Map
 - (D) Project Numbers
 - (E) Index of Sheets and Total Sheet Numbers
 - (F) Plans Prepared By
 - (G) Letting and Right of Way Date
 - (H) Control of Access Note
 - (I) Length of Project
 - (J) Design Designation
 - (K) Plan Approval
 - (L) Method of Clearing

Chapter Four - General Notes

- 4-1 Purpose
- 4-2 List of General Notes

Chapter Five - Roadway Standards, Special Provisions & Contracts

- 5-1 Purpose and Location of Roadway Standards
 - (A) Proposal Line Up
- 5-2 Plant Pest Quarantines
 - (A) List of Counties With Plant Pest Quarantines
- 5-3 Rare and Endangered Plant Species

Chapter Six - Typical Sections

- 6-1 Purpose
 - (A) Number of Typical Sections
 - (B) Dimensions
 - (C) Limits of Use
 - (D) Pavement Schedule
 - Figure 1 - Code Letter and Sample Pavement Schedule Descriptions
 - (E) Subgrade Stabilization

Chapter Seven - Special Details

- 7-1 Purpose
- 7-2 Benching Excavation for Embankment
- 7-3 Undercut Excavation
- 7-4 False Cuts
 - Figure 1 - False Cut in Draw Between Cut Slopes
 - Figure 2 - Waste Projects

Chapter Eight - Summary of Quantities in Plans

- 8-1 Summary of Quantities Sheet (Number 3 Sheet)
- 8-2 Drainage Items
- 8-3 Miscellaneous Summaries

Chapter Nine - Right of Way

- 9-1 Guide for Establishing Proposed Right of Way
- 9-2 Right of Way Markers on Plans
- 9-3 Access Points on Partial Control of Access
- 9-4 Easements
- 9-5 Right of Way Area Data
 - (A) Guide For Computing Right of Way Area Data
- 9-6 Advanced Acquisitions
- 9-7 Second Takings
- 9-8 Property Strip Map
- 9-9 Right of Way Estimates
 - Figure 1 - Estimate Request Form
- 9-10 Right of Way Project Number

Chapter Ten - Fencing

- 10-1 Fencing of Full Control and Partial Control of Access
- 10-2 Fencing of Rest Areas and Welcome Centers
- 10-3 Fencing of Truck Weigh Stations
- 10-4 Fencing in Proximity to Airports
- 10-5 Fence Locations At Rivers and Streams
- 10-6 Fence Locations At 54" Pipes and Above
- 10-7 Fence Locations At Overpasses
 - Figure 1 - Guide for Fence Locations -Y- Line Over Freeway
 - Figure 2 - Guide for Fence Locations - Freeway Over -Y- Line
- 10-8 Types of Fence
 - (A) Woven Wire
 - (B) Chain Link Fence
 - (C) Special Type Fence
- 10-9 Height of Fencing
- 10-10 Gates

Chapter Eleven - Landscape

- 11-1 Preliminary Erosion Control Plans
- 11-2 Erosion Control Plans, Estimated, and Special Provisions
- 11-3 Temporary Erosion Control Items
 - Figure 1 - Guides For Landscape Planting at Diamond Interchanges
 - Figure 2 - Guides For Landscape Planting at Cloverleaf Interchanges

Chapter Twelve - Traffic Operations

- 12-1 Maintenance of Traffic During Construction
- 12-2 Traffic Operations Plan
- 12-3 Traffic Control Plan Review Meetings
- 12-4 Design of On-Site Detours and Median Crossovers
 - Figure 1 - Standard Design Criteria for Temporary Detours
- 12-5 Off-Site Detours
- 12-6 Pavement Markings For Construction Projects

Chapter Thirteen - Roadway Plans

- 13-1 Roadway Plans

Chapter Fourteen - Bridge Plans

- 14-1 Bridge Plans
- 14-2 Coordination with the Structure Design Unit

Chapter Fifteen - Electrical Plans

- 15-1 Roadway Electrical Plans
- 15-2 Plans for Electrical Conduit
- 15-3 Plans for Lighting
- 15-4 Design Guidelines for Lighting Welcome Centers and Rest Areas

Chapter Sixteen - Landscape Plans

- 16-1 Landscape Plans

Chapter Seventeen - Signing Plans

- 17-1 Signing Concepts for Preliminary Design
- 17-2 Signing Plans
- 17-3 Coordination for Sign Supports

Chapter Eighteen- Utility Plans

- 18-1 Coordination during Preliminary Design
- 18-2 Utility Plans

Chapter Nineteen - Earthwork

- 19-1 Plotting of Cross-Section Sheets
- 19-2 Use of CADD For Earthwork
- 19-3 Earthwork Summaries
- 19-4 Note on Cross Sections
- 19-5 Note for Lump Sum Grading

Chapter Twenty - Field Inspection

- 20-1 Items For Field Inspection Review

Chapter Twenty-one - Public Hearings

- 21-1 Public Hearings
- 21-2 Preparation of Public Hearing Maps
 - Figure 1 - Legend of Adopted Colors
 - Figure 2 - Sample Typical Section of Proposed Construction
 - Figure 3 - Sample Project Information Sheet
 - Figure 4 - Sample of Advertising Map
 - Figure 5 - Sample of Advertising Map
- 21-3 Additional Information on Public Hearings

Chapter Twenty-two - Checklists

- 22-1 Purpose
- 22-2 Preliminary Plans
 - (A) Title Sheet
 - (B) Typical Sections
 - (C) Plan Sheet and Profile Sheet
 - (D) Interchange Sheet
 - (E) Cross-Section Sheets
 - (F) Guardrail Design
 - (G) General
- 22-3 Right of Way Plans
 - (A) Title Sheet
 - (B) Typical Sections
 - (C) Right of Way Area Data Sheet
 - (D) Plan Sheets and Profile Sheets

- (E) Cross-Sections
- (F) General
- 22-4 Final Plans
 - (A) Title Sheet
 - (B) Typical Sections
 - (C) Details
 - (D) Plan Sheets
 - (E) Interchange Sheets
 - (F) Intersection Sheets
 - (G) Cross-Sections
 - (H) Guardrail Design
 - (I) Summary of Quantities
 - (J) Estimates
 - (K) General
- 22-5 Final Resurfacing Plans
- 22-6 Final Construction Plans

Chapter Twenty-three - Standard Forms

- 23-1 Standard Forms

Chapter Twenty-four - Reference Material

- 24-1 Reference Material
- 24-2 Other Publications
- 24-3 Secondary Road Names