

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

INDEX

| <u>Subject</u> | <u>Section/Figure</u> |
|--|---|
| - A - | |
| ACCESS CONTROL | Section 24.4, Section 29.1, Section 29.7 |
| ACCESSIBILITY FOR DISABLED INDIVIDUALS | Section 31.1 |
| AGREEMENTS | |
| Safety Projects | Chapter 37 |
| Work-At-Agreed Price Agreement..... | Section 37.2 |
| ALIGNMENT AND GRADE | |
| Cost Estimate | Section 4.3 |
| Review | Section 21.2 |
| APPROACHES..... | Section 28.10 |
| ARTERIALS..... | Section 24.2 |
| - B - | |
| BARRIERS, MEDIAN | Section 6.1 |
| BARRIERS, ROADSIDE | |
| Design..... | Section 6.1 |
| Horizontal Sight Distance | Section 25.5 |
| BEACONS, FLASHING | Section 12.6 |
| BICYCLES | |
| Pavement Markings | Section 19.5 |
| Traffic Signals | Section 12.3 |
| BREAKAWAY HARDWARE SUPPORTS | |
| Design..... | Section 6.2 |
| Highway Signs | Section 6.2, Section 18.1 |
| Luminaire Supports..... | Section 6.2, Section 13.3 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subject**Section/Figure**

BRIDGE

| | |
|---|--------------|
| Bureau | Section 1.5 |
| Electrical Projects | Section 9.1 |
| Geometric Projects | Section 22.1 |
| Safety Projects..... | Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |

- C -

CADD

| | |
|--|---|
| GEOPAK..... | Section 3.3, Section 4.1 |
| MicroStation..... | Section 3.3 |
| Plan Preparation | Section 3.2, Section 10.1, Section 17.1, Section 23.1, Section 35.1 |
| Engineering Information Management Section | Section 1.5 |

CLEAR ZONES

| | |
|------------------------------|--------------|
| Highway Lighting | Section 13.6 |
| Roadside..... | Section 6.1 |
| Traffic Signal Supports..... | Section 12.4 |

COLLECTOR-DISTRIBUTOR ROADS Section 29.4

COLLECTORS Section 24.2

COMPUTERIZED DESIGN

| | |
|--|----------------------------|
| Data Processing | Section 40.3, Section 40.4 |
| Engineering Information Management Section | Section 1.5 |
| GEOPAK..... | Section 3.3, Section 4.1 |
| Highway Lighting | Section 13.5 |
| Highway Signing | Section 18.1 |
| MicroStation..... | Section 3.2, Section 3.3 |
| Plan Preparation | Section 3.2, Section 3.3 |
| Quantities..... | Section 4.1 |
| Traffic Signals | Section 12.4, Section 12.5 |

CONSTRUCTION

| | |
|---------------------------|--------------|
| Electrical Projects | Section 9.2 |
| Geometric Projects | Section 22.2 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|---|
| Program | Section 1.4 |
| Safety Projects..... | Section 34.2 |
| Signing/Pavement Marking Projects | Section 16.2 |
| CONSULTANTS | |
| Consultant Design Section..... | Section 1.5, Section 2.4, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Consultant Monitoring | Section 2.4 |
| Consultant Services Procedures Manual | Section 5.2 |
| CONTRACT PLANS BUREAU | |
| Contract Plans Bureau..... | Section 1.4 |
| Cost Estimates..... | Section 4.3 |
| Electrical Projects | Section 8.2, Section 9.2 |
| Geometric Projects | Section 22.2 |
| Lettings | Section 8.2, Section 15.2, Section 33.2 |
| MDT Detailed Drawings | Section 4.2, Section 5.2 |
| Quantity Item Codes | Section 4.1 |
| Safety Projects..... | Section 33.2, Section 34.2 |
| Signing/Pavement Marking Projects | Section 15.2, Section 16.2 |
| Specifications..... | Section 4.2, Section 5.2 |
| CORRESPONDENCE | Section 2.2, Section 40.5 |
| COST ESTIMATES | Section 4.3 |
| CRASH CUSHIONS (Impact Attenuators)..... | Section 6.1 |
| CROSS SECTIONS | Section 24.8 |
| - D - | |
| DELINEATORS | Section 19.8 |
| DEPARTMENT OF FISH, WILDLIFE AND PARKS..... | Section 9.4, Section 16.4, Section 18.5, Section 18.6, Section 34.4 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|---|
| DESIGN EXCEPTIONS | |
| Electrical Projects | Section 8.2, Section 12.1, Section 13.1 |
| Geometric Projects | Section 24.7 |
| Procedures | Section 24.7 |
| Reports | Section 2.1 |
| Signing/Pavement Marking Projects | Section 18.1, Section 19.1 |
| DESIGN SPEED..... | Section 24.3, Section 29.2, Section 29.4, Section 29.6, Section 43.3 |
| DETAILED DRAWINGS | |
| Contract Plans Bureau..... | Section 4.2 |
| Electrical | Section 10.1, Section 10.4, Section 12.3, Section 13.3 |
| MDT Detailed Drawings | Section 3.1, Section 4.2, Section 5.2, Section 23.1, Section 35.1 |
| Signing..... | Section 18.8 |
| DISTRICT | |
| Electrical Projects | Section 9.2, Section 9.3 |
| Geometric Projects | Section 22.2, Section 22.3 |
| Offices..... | Section 1.3 |
| Right-of-Way | Section 1.5 |
| Safety Projects..... | Section 34.2, Section 34.3 |
| Signing/Pavement Marking Projects | Section 16.2, Section 16.3 |
| Studies..... | Section 40.2, Section 40.5, Section 41.1, Section 42.2, Section 43.1 |
| Surveys..... | Section 1.5, Section 33.2 |
| - E - | |
| ENGINEERING INFORMATION MANAGEMENT SECTION | |
| Electrical Projects | Section 9.1 |
| Geometric Projects | Section 22.1 |
| Project Reports | Section 2.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|---|
| Safety Projects..... | Section 34.1 |
| Section..... | Section 1.5 |
| Signing/Pavement Marking Projects | Section 16.1 |
| ENGINEER'S ESTIMATE..... | Section 4.3 |
| ENVIRONMENT | |
| Electrical Projects | Section 8.2, Section 9.1 |
| Environmental Services | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Geometric Projects | Section 21.2, Section 22.1 |
| Interchanges | Section 29.1 |
| Project Reports | Section 2.1 |
| Safety Projects..... | Section 33.2, Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |
| Traffic Impact Studies | Section 41.1 |
| ENVIRONMENTAL SERVICES | |
| Bureau | Section 1.5 |
| Electrical Projects | Section 9.1 |
| Geometric Projects | Section 22.1 |
| Safety Projects..... | Section 33.2, Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |
| - F - | |
| FEDERAL AGENCIES | |
| Bureau of Land Management | Section 16.4 |
| Federal Aviation Administration | Section 9.4 |
| Federal Highway Administration | Section 9.4, Section 16.4, Section 22.4, Section 24.6, Section 34.4 |
| National Park Service | Section 9.4, Section 16.4, Section 34.4 |
| Tribal Governments/Bureau of Indian Affairs | Section 16.4 |
| United States Forest Service | Section 9.4, Section 16.4, Section 18.6, Section 34.4 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|--|
| United States Postal Service | Section 16.4, Section 18.5, Section 34.4 |
| FINAL REVIEW | |
| Cost Estimate | Section 4.3 |
| Projects | Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| Report | Section 2.1 |
| FRONTAGE ROADS | Section 29.4 |
| FUNCTIONAL CLASSIFICATIONS | Section 24.2 |
| - G - | |
| GEOPAK | Section 1.5, Section 3.3, Section 4.1 |
| GEOTECHNICAL | |
| Investigation | Section 16.2, Section 18.9 |
| Reports | Section 2.1 |
| Section | Section 1.4, Section 9.1, Section 16.2, Section 18.9, Section 22.2, Section 34.2 |
| - H - | |
| HIGHWAY CAPACITY | |
| Design Year | Section 28.2, Section 29.3, Section 29.7, Section 30.1 |
| Design Year Traffic | Section 30.1 |
| Level of Service | Section 30.2 |
| Traffic Impact Studies | Section 41.3 |
| Truck-Climbing Lanes | Section 30.3 |
| HIGHWAY CLASSIFICATIONS | Section 24.2 |
| HIGHWAY LIGHTING | |
| Design | Section 13.4, Section 13.5, Section 13.6 |
| Equipment | Section 13.3 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|------------------------------|
| Guidelines..... | Section 13.2 |
| High Mast Lighting | Section 13.7 |
| Roadside Safety | Section 13.6 |
| HIGHWAY SIGNING | |
| Advisory Exit/Ramp Speed Signs | Section 18.3 |
| Authorized Vehicles Only Signs | Section 18.2 |
| Beacons..... | Section 12.6, Section 18.8 |
| Campground Signing | Section 18.5 |
| Chain-Up Area Signing | Section 18.4 |
| Destination Signs | Section 18.4 |
| Distance Signs | Section 18.4 |
| Do Not Pass Signs..... | Section 18.2 |
| General Service Signing | Section 18.5 |
| Golf Course Signing..... | Section 18.6 |
| Government Agencies | Section 18.6 |
| Guide | Section 18.4 |
| Higher Education Signing | Section 18.5 |
| Historic Sites/Monuments | Section 18.6 |
| Hospital/Emergency Medical Services Signing..... | Section 18.5 |
| Hot Spring Signing | Section 18.6 |
| Ice on Bridge Signs..... | Section 18.3 |
| Illumination..... | Section 18.1 |
| Lane-Use Control Signs..... | Section 18.2 |
| Legends | Section 18.1 |
| Limited Access Highway Signing | Section 18.4 |
| LOGO Signs | Section 18.7 |
| Low/Vertical Clearances | Section 18.1, Section 18.3 |
| Motorist Information Sign Program | Section 18.7 |
| Mountain Range Signing..... | Section 18.4 |
| Museum Signing | Section 18.6 |
| Narrow Bridges | Section 18.3 |
| No Left Turn Signs | Section 18.2 |
| Overhead Signs | Section 18.1, Section 18.8 |
| Parking Restriction Signing..... | Section 18.2 |
| Points of Interest Signing | Section 18.6 |
| Post Office | Section 18.5 |
| Recreation/Scenic Area Signing | Section 18.6 |
| Reflectorization | Section 18.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|---|
| Regulatory Signs | Section 18.2 |
| Rivers/Streams Signing | Section 18.4 |
| Roadside Safety | Section 18.1 |
| Roundabouts | Section 18.1 |
| Route Signing | Section 18.4 |
| School Crossing Signs..... | Section 18.3, Section 18.8, Section 42.6 |
| Service Signs..... | Section 18.5 |
| Sign Details..... | Section 18.8 |
| Sign Inventory | Section 18.1 |
| Sign Placement..... | Section 18.1 |
| Sign Priority | Section 18.1 |
| Sign Size..... | Section 18.1 |
| Ski Area Signing | Section 18.6 |
| Small Communities Signing..... | Section 18.4 |
| Snowmobile Crossing Signs | Section 18.3 |
| Speed Limit Signs | Section 18.2 |
| State Line Sign Sequence | Section 18.1 |
| Statewide Sign Changes..... | Section 18.1 |
| Stop/Yield Signs | Section 18.2 |
| Street Name Signing..... | Section 18.4 |
| Structural Design | Section 18.8, Section 18.9 |
| Tourist-Oriented Directional Signs | Section 18.7 |
| Traffic Signals | Section 12.4 |
| Turn/Curve Signs..... | Section 18.3 |
| Two-Way Left-Turn Only Signs..... | Section 18.2 |
| U.S. Forest Service..... | Section 18.6 |
| Variable Message Signing | Section 18.1 |
| Visitor Information Signing..... | Section 18.6 |
| Warning Signs | Section 18.3 |
| Weigh Station Signing..... | Section 18.4 |
| HORIZONTAL ALIGNMENT | |
| Curves | Section 25.2 |
| Interchanges Ramps..... | Section 29.5, Section 29.6 |
| Intersections | Section 28.2 |
| Minimum Radii | Section 25.2 |
| Plan Sheets | Section 17.4, Section 23.2 |
| Sight Distance..... | Section 25.5 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|---|
| Signing..... | Section 18.3 |
| Superelevation (Low-Speed Urban Streets) | Section 25.4 |
| Superelevation (Open-Roadway Conditions)..... | Section 25.3 |
| HYDRAULICS | |
| Electrical Projects | Section 8.2, Section 9.1 |
| Geometric Projects | Section 22.1 |
| Safety Projects..... | Section 33.2 |
| Section..... | Section 1.5, Section 2.1, Section 9.1, Section 22.1, Section 34.1 |
| - - | |
| IMPACT ATTENUATORS | Section 6.1 |
| INTERCHANGES | |
| Access Control..... | Section 29.1, Section 29.7 |
| Auxiliary Lanes | Section 29.3 |
| Capacity | Section 29.3 |
| Collector-Distributor Roads | Section 29.4 |
| Entrance Ramps | Section 29.5, Section 29.6 |
| Exit Ramps | Section 29.5, Section 29.6 |
| Grade Separation..... | Section 29.1, Section 29.4 |
| Lane Balance | Section 29.3 |
| Plan Sheet Details | Section 23.2 |
| Ramp/Crossroad Intersections | Section 29.7 |
| Safety..... | Section 29.3 |
| Signing and Marking | Section 19.4, Section 29.3 |
| Types..... | Section 29.2 |
| INTERSECTIONS | |
| Acceleration Lanes | Section 28.6 |
| Alignment..... | Section 28.2 |
| Auxiliary Turn Lanes | Section 28.4 |
| Capacity | Section 28.2 |
| Channelization | Section 28.7 |
| Control Beacons | Section 12.6 |
| Design Vehicles | Section 28.2 |
| Median Openings..... | Section 28.8 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subject**Section/Figure**

| | |
|------------------------------------|---------------|
| Pavement Markings | Section 19.4 |
| Plan Sheet Details | Section 23.2 |
| Profile..... | Section 28.2 |
| Ramp/Crossroad Intersections | Section 29.7 |
| Roundabouts | Section 28.11 |
| Sight Distance..... | Section 28.9 |
| Turning Radii | Section 28.3 |
| Turning Roadways..... | Section 28.5 |

- J -

- K -

- L -

LANES

| | |
|-------------------------------|---|
| Auxiliary Lanes | Section 28.4, Section 29.3 |
| Lane Drops | Section 29.4 |
| Passing Lanes | Section 19.5, Section 24.5 |
| Pavement Markings | Chapter 19 |
| Truck-Climbing Lanes..... | Section 19.5, Section 26.2, Section 30.3 |
| Two-Way Left-Turn Lanes | Section 19.5, Section 31.2 |

LOCAL GOVERNMENT

| | |
|---|---|
| Agreements | Section 37.1, Section 37.2 |
| Coordination | Section 1.3, Section 1.5 |
| Electrical Projects | Section 9.4, Section 12.2, Section 13.2 |
| Geometric Projects | Section 22.4 |
| Parking | Section 31.4 |
| Safety Projects..... | Section 34.4 |
| School Crossing Studies..... | Section 42.2, Section 42.3, Section 42.6 |
| Signing/Pavement Marking Projects | Section 16.4 |
| Speed Studies | Section 40.2, Section 40.5 |
| Traffic Impact Studies | Section 41.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|---|
| LOCAL ROADS AND STREETS | Section 24.2 |
| - M - | |
| MAILBOXES | |
| Supports | Section 6.2 |
| Turnouts..... | Section 19.5, Section 23.2 |
| MAINTENANCE DIVISION | |
| Division | Section 1.3 |
| Electrical Projects | Section 9.3 |
| Signing/Pavement Marking Projects | Section 16.3 |
| MANUAL REVISIONS | Part I - Introduction |
| MATERIALS | |
| Bureau | Section 1.4, Section 16.2, Section 22.2, Section 33.2, Section 34.2 |
| Pavement Markings | Section 19.6 |
| Signing..... | Section 18.1 |
| MEDIANS | |
| Channelization | Section 28.7 |
| Intersection Sight Distance | Section 28.9 |
| Openings | Section 28.8 |
| Types..... | Section 31.3 |
| MICROSTATION | Section 3.3 |
| MONTANA DEPARTMENT OF TRANSPORTATION | |
| Bridge Bureau | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Communications Bureau..... | Section 1.3 |
| Construction Program..... | Section 1.4, Section 9.2, Section 16.2, Section 22.2, Section 34.2 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|--|
| Consultant Design Bureau | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Contract Plans Bureau | Section 1.4, Section 9.2, Section 16.2, Section 22.2, Section 34.2 |
| District Offices | Section 1.3, Section 9.3, Section 16.3, Section 22.3, Section 34.3 |
| Engineering Information Management Section | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Environmental Services Bureau | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Geotechnical Section | Section 1.4 |
| Highways Bureau | Section 1.5 |
| Human Resources Division | Section 9.3, Section 16.3, Section 22.3, Section 34.3 |
| Hydraulics Section | Section 1.5, Section 9.1, Section 22.1, Section 34.1 |
| Information Services Division | Section 3.3, Section 9.3 |
| Legal Services Unit | Section 9.3, Section 16.3, Section 22.3, Section 34.3 |
| Maintenance Division | Section 1.3, Section 9.3, Section 16.3 |
| Materials Bureau | Section 1.4, Section 16.2, Section 22.2, Section 34.2 |
| MDT Transportation Commission | Section 1.3, Section 18.2, Section 40.2, Section 40.5, Section 42.6 |
| Motor Carrier Services | Section 9.3, Section 13.2, Section 16.3, Section 22.3 |
| Organization | Section 1.1 |
| Photogrammetry and Survey Section | Section 1.5, Section 3.2, Section 9.1, Section 16.1, Section 22.1, Section 33.2, Section 34.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|--|
| Preconstruction Program | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Rail/Highway Safety Section | Section 1.5 |
| Rail, Transit and Planning Division | Section 1.3, Section 9.3, Section 16.3, Section 22.3, Section 29.1, Section 34.3 |
| Right-of-Way Bureau | Section 1.5, Section 8.2, Section 9.1, Section 16.1, Section 22.1, Section 33.2, Section 34.1 |
| Road Design Section | Section 1.5, Section 9.1, Section 16.1, Section 22.1 |
| Safety Management Section | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1 |
| Traffic and Safety Bureau | Section 1.5 |
| Traffic Engineering Section | Section 1.5 |
| Tribal Liaison | Section 9.3, Section 16.3, Section 22.3, Section 34.2 |
| Utilities Section | Section 1.5 |

MUTCD

| | |
|-------------------|--|
| Context | Section 2.3, Section 12.1, Section 18.1, Section 19.1 |
| Publication | Section 5.1 |

- N -

| | |
|---------------------------------------|----------------------------|
| NEWS RELEASE/PUBLIC INFORMATION | Section 8.2, Section 33.2 |
| NO PASSING ZONES | Section 18.2, Section 19.3 |

- O -

| | |
|----------------------|--------------|
| OBJECT MARKERS | Section 19.7 |
|----------------------|--------------|

- P -

PARKING

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---------------------------------|--|
| Design..... | Section 23.2, Section 28.3, Section 31.4 |
| Pavement Markings | Section 19.5 |
| Signing..... | Section 18.2 |
| PASSING LANES | |
| Design..... | Section 24.5 |
| Pavement Markings | Section 19.5 |
| PAVEMENT DESIGN | Section 1.4, Section 22.2, Section 34.2 |
| PAVEMENT MARKINGS | |
| Bicycle Facilities | Section 19.5 |
| Center Lines | Section 19.2 |
| Channelizing Lines..... | Section 19.2, Section 19.4 |
| Crosswalks | Section 19.4 |
| Curb Markings | Section 19.4 |
| Delineators..... | Section 19.8 |
| Edge Lines | Section 19.2 |
| Highway/Railroad Crossings..... | Section 19.5 |
| Interchanges | Section 19.4, Section 29.3 |
| Intersections | Section 19.4, Section 28.4 |
| Lane Lines | Section 19.2 |
| Lane Control Markings..... | Section 19.4 |
| Materials | Section 19.6 |
| Median Lines | Section 19.2 |
| No Passing Zones..... | Section 19.3 |
| Object Markers | Section 19.7 |
| Parking..... | Section 19.5 |
| Passing Lanes | Section 19.5 |
| School Crossings..... | Section 19.5, Section 42.6 |
| Stop Lines..... | Section 19.4 |
| Special Markings..... | Section 19.4 |
| Traffic Signals | Section 12.4 |
| Transitions | Section 19.2 |
| Travel Way Markings | Section 19.2 |
| Truck-Climbing Lanes..... | Section 19.5 |
| Turnouts..... | Section 19.5 |
| Two-Way Left-Turn Lanes | Section 19.5 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subject

Section/Figure

PEDESTRIANS

| | |
|--|---|
| Accessibility For Disabled Individuals | Section 31.1 |
| Crosswalks | Section 19.4, Chapter 40, Section 41.3, Chapter 42 |
| Intersections | Section 28.2 |
| Traffic Signals | Section 12.3, Section 12.4 |

PHOTOGRAMMETRY AND SURVEY SECTION

| | |
|---|----------------------------|
| Electrical Projects | Section 9.1 |
| Geometric Projects | Section 22.1 |
| Safety Projects..... | Section 33.2, Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |
| Surveys..... | Section 3.2 |

PLAN PREPARATION

| | |
|---|---|
| CADD..... | Section 3.2, Section 10.1, Section 17.1, Section 23.1, Section 35.1 |
| Computerized Design | Section 3.2, Section 3.3 |
| Drafting Guidelines | Section 3.2, Section 10.1, Section 23.1, Section 35.1 |
| Electrical Projects | Chapter 10 |
| Geometric Projects | Chapter 23 |
| MDT Detailed Drawings | Section 3.1, Section 4.2 |
| Plan Sheet Organization | Section 3.1, Section 10.1, Section 17.1, Section 23.1 |
| Quantities..... | Section 4.1, Chapter 36 |
| Safety Projects..... | Chapter 35 |
| Sample Plan Sheets | Part VII-Typical Plan Sheets |
| Signing/Pavement Marking Projects | Chapter 17 |
| Temporary Detours and Median Crossovers | Section 3.1 |
| Working Sheets | Section 3.1 |

PLAN SHEETS

| | |
|---|------------------------------|
| Electrical Details | Section 10.4 |
| Electrical Plan Sheets..... | Section 10.5 |
| Electrical Quantity Summary Sheet | Section 10.3 |
| Geometrics Plan Sheets | Section 23.2 |
| Sample Plan Sheets | Part VII-Typical Plan Sheets |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|--|
| Schedule Frames (Electrical) | Section 10.4 |
| Sign Location and Specifications Sheet..... | Section 17.3 |
| Signing/Pavement Marking Details | Section 17.4, Section 18.8 |
| Signing/Pavement Marking Plan Sheets..... | Section 17.4 |
| Summary Signing and Delineation Quantities Sheet .. | Section 17.3 |
| Table of Contents Sheet | Section 10.2, Section 17.2 |
| Title Sheet..... | Section 10.2, Section 17.2 |
| PLAN-IN-HAND | |
| Cost Estimate | Section 4.3 |
| Report..... | Section 2.1, Section 8.2 Section 15.2, Section 21.2, Section 33.2 |
| Review | Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| PRELIMINARY FIELD REVIEW | |
| Cost Estimate | Section 4.3 |
| Report..... | Section 2.1, Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| Review | Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| PROJECT DEVELOPMENT | |
| Electrical Projects | Chapter 8 |
| Geometric Projects | Chapter 21 |
| Safety Projects..... | Chapter 33 |
| Signing/Pavement Marking Projects | Chapter 15 |
| PUBLIC MEETINGS..... | Section 9.3, Section 16.3, Section 22.3, Section 34.3 |

- Q -

QUANTITIES

| | |
|----------------------|--------------|
| Electrical | Section 10.3 |
| Lump-Sum Items | Section 4.1 |
| Preparation | Section 4.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|---|
| Signing..... | Section 17.3 |
| Summaries..... | Chapter 36 |
| - R - | |
| RAIL, TRANSIT AND PLANNING DIVISION | |
| Cost Estimates..... | Section 4.3 |
| Division | Section 1.3 |
| Electrical Projects | Section 9.3 |
| Geometric Projects | Section 22.3 |
| Public Information/News Release | Section 8.2, Section 33.2 |
| Safety Projects..... | Section 34.3 |
| Signing/Pavement Marking Projects | Section 16.3 |
| RAILROADS | |
| Electrical Projects | Section 9.1, Section 12.7 |
| Geometric Projects | Section 22.1 |
| Highway Grade Crossings | Section 12.7, Section 31.5 |
| Pavement Markings | Section 19.5 |
| Rail/Highway Safety Section..... | Section 1.5 |
| Safety Projects..... | Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |
| Traffic Signals | Section 12.7 |
| Utilities Section | Section 1.5 |
| REFERENCES | |
| Department Publications..... | Section 5.2 |
| Highway Lighting | Section 13.1 |
| National Publications | Section 5.1 |
| Pavement Markings | Section 19.1 |
| Signing..... | Section 18.1 |
| Traffic Impact Studies | Section 41.1 |
| Traffic Signals | Section 12.1 |
| REPORTS | |
| Alignment and Grade Report | Section 21.2 |
| Final Plan Review Report | Section 2.1, Section 8.2, Section 33.2 |
| General Traffic Studies Report | Section 43.5 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|---|--|
| Plan-in-Hand Report | Section 2.1, Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| Preliminary Field Review Report..... | Section 2.1, Section 8.2, Section 15.2, Section 21.2, Section 33.2 |
| School Crossing Study and Correspondence Report . | Section 42.7 |
| Scope of Work Report..... | Section 2.1, Section 8.2, Section 21.2, Section 33.2 |
| Speed Study Report..... | Section 40.5 |
| Traffic Engineering Report..... | Section 2.1 |
| Traffic Impact Study Report | Section 41.4 |
| REST AREAS | |
| Lighting | Section 13.2 |
| Plan Sheets | Section 23.2 |
| RIGHT-OF-WAY | |
| Bureau | Section 1.5 |
| Electrical Projects | Section 8.2, Section 9.1 |
| Geometric Projects | Section 22.1 |
| Safety Projects..... | Section 33.2, Section 34.1 |
| Signing/Pavement Marking Projects | Section 16.1 |
| Utilities Section | See Utilities |
| ROAD DESIGN SECTION | |
| Electrical Projects | Section 9.1 |
| Geometric Projects | Section 22.1 |
| Section..... | Section 1.5 |
| Signing/Pavement Marking Projects | Section 16.1 |
| ROADSIDE SAFETY | |
| Design..... | Chapter 6 |
| Highway Lighting | Section 13.6 |
| Highway Signing | Section 18.1 |
| Traffic Signals | Section 12.4 |
| ROUNDBABOUTS..... | Section 18.1, Section 28.11 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subject**Section/Figure****- S -**

| | |
|-----------------------------|--|
| SAFETY IMPROVEMENTS..... | Chapter 38 |
| SCHOOL CROSSINGS | |
| Pavement Markings | Section 19.5, Section 42.6 |
| Signs..... | Section 12.6, Section 18.3, Section 18.8, Section 42.6 |
| Speed Zones | Section 42.6 |
| Studies..... | Chapter 42 |
| Traffic Signals | Section 12.2, Section 12.6 |
| SCOPE OF WORK | |
| Cost Estimate | Section 4.3 |
| Report..... | Section 2.1, Section 8.2, Section 21.2, Section 33.2 |
| SIGHT DISTANCE | |
| Horizontal..... | Section 25.5 |
| Interchange Ramps..... | Section 29.5 |
| Intersection | Section 28.9 |
| Passing | Section 19.3, Section 24.5 |
| Stopping..... | Section 24.5 |
| SIGN INVENTORY | Section 16.3, Section 18.1 |
| SIGN REVIEW COMMITTEE | Section 18.1 |
| SIGNING, HIGHWAY | See Highway Signing |
| SNOW FENCES..... | Section 31.6 |
| SPECIAL PROVISIONS | Section 4.2 |
| SPEED | |
| Design Speed | Section 24.3, Section 29.2, Section 29.4, Section 29.6, Section 43.3 |
| Posted Speed Limit..... | Section 18.1, Section 24.3 |
| Studies..... | Chapter 40 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|-------------------------------------|--|
| SPEED LIMIT | |
| Approvals..... | Section 40.5 |
| School Zones..... | Section 42.6 |
| Signs..... | Section 18.1, Section 18.2, Section 42.6 |
| Sign Beacons..... | Section 12.6 |
| Speed Zones | Chapter 40, Section 42.6 |
| STANDARD SPECIFICATIONS..... | Section 4.2, Section 5.2 |
| STUDIES | |
| General..... | Chapter 43 |
| School Crossing..... | Chapter 42 |
| Speed | Chapter 40 |
| Traffic Engineering Report..... | Section 2.1 |
| Traffic Impact | Chapter 41 |
| SUPERELEVATION | |
| Interchanges Ramps..... | Section 29.5, Section 29.6 |
| Low Speed Urban Streets..... | Section 25.4 |
| Open Roadway Conditions | Section 25.3 |
| - T - | |
| TRAFFIC AND SAFETY BUREAU | |
| Safety Management Section..... | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1, Chapter 38 |
| Traffic Engineering Section..... | Section 1.5 |
| TRAFFIC ENGINEERING SECTION | |
| Electrical Unit..... | Section 1.5, Part II, Section 16.1, Section 22.1, Section 34.1 |
| Engineering Analysis Unit | Section 1.5, Section 21.2 |
| Geometrics Unit | Section 1.5, Section 9.1, Section 16.1, Part IV, Section 34.1 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| <u>Subject</u> | <u>Section/Figure</u> |
|--|---|
| Safety Design Unit | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Part V |
| Signing Unit | Section 1.5, Section 9.1, Part III, Chapter 21, Section 22.1, Section 34.1 |
| Traffic Engineering Investigations Unit..... | Section 1.5, Section 9.1, Section 16.1, Section 22.1, Section 34.1, Part VI |
| TRAFFIC IMPACT STUDIES | Chapter 41 |
| TRAFFIC SIGNALS | |
| Beacons..... | Section 12.6 |
| Computer Software | Section 12.4 |
| Controllers | Section 12.3, Section 12.4 |
| Design..... | Section 12.2, Section 12.3, Section 12.4 |
| Detectors | Section 12.3 |
| Electrical Systems..... | Section 12.4 |
| Equipment..... | Section 12.3 |
| Highway/Railroad Crossings..... | Section 12.7 |
| Pavement Marking and Signing | Section 12.4 |
| Pedestrian Signals | Section 12.4 |
| Phasing..... | Section 12.4 |
| School Crossings..... | Section 42.6 |
| Signal System Design..... | Section 12.5 |
| Studies..... | Section 12.2 |
| Timing | Section 12.4 |
| Warrants | Section 12.2 |
| TRUCKS | |
| Chain-up and Truck Turnout Details | Section 23.2 |
| Climbing Lanes, Design | Section 26.2, Section 30.3 |
| Climbing Lanes, Pavement Markings..... | Section 19.5 |
| Interchanges | Section 29.5 |
| Intersection Sight Distance | Section 28.9 |
| National Network | Section 24.2 |
| Runaway Ramps..... | Section 23.2 |
| Turning Radii | Section 28.3 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subject

Section/Figure

- U -

UTILITIES

| | |
|---|--------------------------|
| Electrical Projects | Section 8.2, Section 9.1 |
| Geometric Projects | Section 22.1 |
| Railroads..... | See Railroads |
| Safety Projects..... | Section 34.1 |
| Section..... | Section 1.5 |
| Signing/Pavement Marking Projects | Section 16.1 |

- V -

VERTICAL ALIGNMENT

| | |
|----------------------------|----------------------------|
| Clearances..... | Section 26.3 |
| Curves | Section 26.4 |
| Grades | Section 26.2 |
| Interchanges Ramps..... | Section 29.5, Section 29.6 |
| Intersections | Section 28.2 |
| Truck-Climbing Lanes | Section 26.2 |

- W -

WEIGH STATIONS

| | |
|------------------------------|---|
| Highway Signing | Section 9.1, Section 16.3, Section 18.4 |
| Lighting | Section 13.2 |
| Motor Carrier Services | Section 9.1, Section 9.3, Section 16.3, Section 22.3 |
| Plan Sheet Details | Section 23.2 |

- X -

- Y -

- Z -