

## LIST OF FIGURES

Figure A-1-1 Geometric Design Standards For Rural Principal Arterial System (GS-1).....	A-11
Figure A-1-2 Geometric Design Standards For Rural Minor Arterial System (GS-2).....	A-12
Figure A-1-3 Geometric Design Standards For Rural Collector Road System (GS-3) .....	A-13
Figure A-1-4 Geometric Design Standards For Rural Local Road System (GS-4).....	A-14
Figure A-1-5 Geometric Design Standards For Urban Principal Arterial System (GS-5) .....	A-15
Figure A-1-6 Geometric Design Standards For Urban Minor Arterial Street System (GS-6).....	A-16
Figure A-1-7 Geometric Design Standards For Urban Collector Street System (GS-7) .....	A-17
Figure A-1-8 Geometric Design Standards For Urban Local Road System (GS-8) .....	A-18
Figure A-1-9 Geometric Design Standards For Service Roads (GS-9).....	A-19
Figure A-1-10 Geometric Design Standards For Interchange Ramps (GS-R) .....	A-20
Figure A-1-11 Geometric Design Standards For Temporary Detours (GS-10) .....	A-21
Figure A-1-12 Geometric Design Standards For Shoulder Design (GS-11).....	A-22
Figure A-1-13 Geometric Design Standards For Shoulder Design For Local Road and Streets (GS-12) .....	A-23
Figure A-1-14 Geometric Design Standards For Graded Median Design (GS-13) .....	A-24
Table A-2-1 Clear Zone Distances (In Feet From Edge of Driving Lane).....	A-27
Figure A-2-1 Clear Zone (Lateral Offset) Cases .....	A-28
Figure A-2-1A Clear Zone (Lateral Offset) Cases .....	A-29
Figure A-2-2 Cost Effective Selection Procedures.....	A-31
Table A-2-2 Horizontal Curve Adjustments .....	A-32
Figure A-2-4 Example of a Parallel Embankment Slope Design.....	A-34
Table A-4-1 Geometric Design Criteria .....	A-47
Table A-5-1 Group A Bicyclists, Urban Section, No Parking .....	A-72
Table A-5-2 Group A Bicyclists, Urban Section, With Parking .....	A-73
Table A-5-3 Group A Bicyclists, Rural Section .....	A-74
Table A-5-4 Group B/C Bicyclists, Urban Section, No Parking .....	A-75
Table A-5-5 Group B/C Bicyclists, Urban Section, With Parking .....	A-76
Table A-5-6 Group B/C Bicyclists, Rural Section.....	A-77
Figure A-5-1 (1) Bike Lane With on Street Parking .....	A-79
Figure A-5-1 (2) Parking Permitted Without Parking Stripe or Stall.....	A-80
Figure A-5-2 (2) Typical Bike Lane Cross Sections .....	A-81
Figure A-5-3 Right Turn Only Lane .....	A-82
Figure A-5-4 Shared Use Paths .....	A-85
Figure A-5-5 Cross Section of Two-Way Shared Use Path .....	A-86
Figure A-5-6 Physical Barrier For Shared-Use Path .....	A-87
Table A-5-7 Minimum Radii For Paved Shared Use Paths Based on 20° Lean Angle.....	A-89
Table A-5-8 Minimum Stopping Sight Distance (Ft.) Descending Grade .....	A-91
Table A-5-9 Minimum Stopping Sight Distance (Ft.) Ascending Grade .....	A-91
Table A-5-10 Minimum Length of Crest Vertical Curve (L) Based on Stopping Sight Distance .....	A-92
Figure A-5-8 Minimum Clearance For Line of Sight .....	A-93
Table A-5-11Minimum Lateral Clearance For Horizontal Curves.....	A-93
Figure A-5-9 Shared Use Path Transition From Roadway Onto Bridge For Design Speeds >45 mph .....	A-99
Figure A-5-10 Interstate Bicycle Route 1 and 76 .....	A-101
Figure A-5-11 Separation Between Active Rail Lines and Paths (RWT).....	A-105
Table A-5-12 Separation Between Active Rail Lines and Paths (RWT) .....	A-106