



TABLE OF CONTENTS

Table of Contents

1. PROCESS, CONTEXT, ISSUES, AND KEY MESSAGES.....	1-1
Introduction.....	1-1
Planning Process and Context	1-5
Transportation Goals and Strategies.....	1-11
Key Messages	1-13
Evaluation Criteria	1-15
2. COMMUNITY INVOLVEMENT	2-1
Introduction.....	2-1
Phase I – Needs and Desires.....	2-6
Phase II – Alternatives Development and Evaluation	2-26
Phase III – Preferred Plan / Review and Approval.....	2-36
Conclusion	2-37
3. GROWTH OF THE REGION.....	3-1
Introduction.....	3-1
Residential	3-2
Non-Residential (Employment) Data.....	3-6
4. FINANCIAL ANALYSIS AND FUNDING RESOURCES.....	4-1
Introduction.....	4-1
Who Pays for the Transportation System?.....	4-2
Revenue Sources	4-5
Trends in Transportation Revenues and Costs.....	4-9
Revenue Forecasts for the 2035 RTP.....	4-11
Transportation Funding Options	4-17
5. NON-MOTORIZED PLAN	5-1
Existing Conditions	5-1
What We Heard About Non-Motorized Transportation	5-4
Non-Motorized Plan Development	5-10
Financially Constrained Non-Motorized Plan.....	5-20
6. TRANSIT PLAN.....	6-1
Existing Conditions	6-1
Recently Completed, Under Construction, and Committed Projects	6-8
What We Heard About Transit.....	6-9
Transit Plan Development	6-17
Financially Constrained Transit Plan.....	6-27

7. ROADWAY PLAN.....7-1
 Introduction..... 7-1
 Programs and Projects 7-2
 Existing Conditions 7-6
 Recently Completed, Under Construction, and Committed Projects 7-8
 Needs Assessment..... 7-17
 Roadway Plan Development 7-19
 Financially Constrained Roadway Plan..... 7-28

8. CORRIDOR VISION CONCEPTS.....8-1

9. INTERMODAL TRANSPORTATION9-1
 Introduction..... 9-1
 Aviation..... 9-2
 Railroads..... 9-4
 Freight and Truck Routes..... 9-7
 Intelligent Transportation Systems 9-8

10. IMPACTS OF THE PLAN10-1
 Introduction..... 10-1
 Environmental Justice 10-1
 Potential Environmental Impacts 10-9
 Sustainable and Livable Communities..... 10-22

ACRONYMS

LIST OF FIGURES

Figure 3-1: 2005 Household Density 3-3
 Figure 3-2: 2035 Residential Density..... 3-4
 Figure 3-3: Residential Growth (2005 to 2035)..... 3-5
 Figure 3-4: Basic Employment Density (2005) 3-8
 Figure 3-5: Retail Employment Density (2005) 3-9
 Figure 3-6: Service Employment Density (2005)..... 3-10
 Figure 3-7: Total Employment Density (2005) 3-11
 Figure 3-8: 2035 Basic Employment Density..... 3-12
 Figure 3-9: 2035 Retail Employment Density..... 3-13
 Figure 3-10:2035 Service Employment Density 3-14
 Figure 3-11:2035 Total Employment Density..... 3-15
 Figure 3-12:2035 Basic Employment Growth (2005 to 2035)..... 3-16
 Figure 3-13:2035 Retail Employment Growth (2005 to 2035)..... 3-17
 Figure 3-14:2035 Service Employment Growth (2005 to 2035) 3-18
 Figure 3-15:2035 Total Employment Growth (2005 to 2035)..... 3-19
 Figure 5-1: Existing Non-Motorized Facilities 5-2
 Figure 5-2: Cost of Non-Motorized Vision and Baseline Scenarios..... 5-12
 Figure 5-3: Non-Motorized Vision Concept 5-14
 Figure 5-4: Non-Motorized System Alternatives 5-15

TABLE OF CONTENTS

Figure 5-5: Financially-Constrained Non-Motorized Plan	5-22
Figure 6-1: Existing Transit Service in the Mesa County Region	6-5
Figure 6-2: Existing Weekday / Saturday Service Hours and Bus Frequencies	6-6
Figure 6-3: Recent History of Transit Ridership	6-7
Figure 6-4: Cost of Transit Vision and Baseline Scenarios	6-19
Figure 6-5: Vision, Baseline, and Low Base Service Levels vs. Existing	6-20
Figure 6-6: Transit Vision Scenario	6-22
Figure 6-7: Baseline Transit Scenario	6-24
Figure 6-8: Low Base Transit Scenario	6-26
Figure 7-1: On-System Roadway Programs and Projects.....	7-2
Figure 7-2: Off-System Roadway Funding Sources and Projects	7-3
Figure 7-3: Congestion Levels in the Base Year (2005)	7-7
Figure 7-4: Existing and Committed Roadway Network	7-13
Figure 7-5: Needs Assessment – Congestion Levels with 2035 Traffic on the 2014 Existing and Committed Network	7-18
Figure 7-6: Cost of Roadway Capacity Vision and Baseline Scenarios	7-20
Figure 7-7: Roadway Alternatives	7-21
Figure 7-8: Financially-Constrained Roadway Capacity Projects	7-35
Figure 7-9: Congestion Levels for the Financially-Constrained Roadway Plan	7-36
Figure 7-10: Comparison of Future Congestion Levels (seconds per trip).....	7-38
Figure 8-1: Multi-Modal Corridors in the Mesa County Region.....	8-2
Figures 8-2 to 8-36: Corridor Maps	8-4 thru 8-71
Figure 9-1: Grand Junction Regional Airport.....	9-3
Figure 9-2: Railroads in the Mesa County Region	9-6
Figure 10-1: Minority and Low-Income Concentrations	10-4
Figure 10-2: Roadway Improvements in Proximity to Low-Income and Minority Areas.....	10-6
Figure 10-3: Transit System Bus Routes in Proximity to Low-Income and Minority Areas	10-7
Figure 10-4: Non-Motorized Improvements in Proximity to Low-Income and Minority Areas.....	10-8
Figure 10-5: Recommended Roadway Improvements Relative to Wetlands, Rivers, and Streams	10-11
Figure 10-6: Recommended Transit System Relative to Wetlands, Rivers, and Streams.....	10-12
Figure 10-7: Recommended Non-Motorized Improvements Relative to Wetlands, Rivers, and Streams	10-13
Figure 10-8: Recommended Transportation Improvements Relative to Historic Districts, Properties, and Structures	10-16
Figure 10-9: Recommended Transportation Improvements Relative to Parklands	10-18

LIST OF TABLES

Table 1-1: Evaluation Criteria.....	1-15
Table 3-1: Historic Residential Growth	3-2
Table 3-2: 2005 Households by Size and Income Group (Mesa County).....	3-3
Table 3-3: Employment Types by NAICS Code.....	3-6
Table 3-4: Employment Data (Mesa County, 2005).....	3-7
Table 3-5: Base year and Future Employment (Mesa County)	3-12
Table 3-6: Socioeconomic Data Summary (Mesa County).....	3-21
Table 4-1: Grand Valley Transit Funding Sources	4-8
Table 4-2: CDOT Program Revenue Forecast to Fund On-System Roadway Network (2010 \$\$ in millions)	4-12
Table 4-3: Local Revenue Forecasts for the 2035 Regional Transportation Plan (2010 \$\$, millions)	4-13
Table 4-4: Transit Revenue Forecast (2010 \$\$, millions).....	4-15

Table 4-5: Non-Motorized Revenue Forecast (2010 \$\$, millions) 4-16

Table 4-6: Total Transportation Revenues for the Mesa County Region (2010 \$\$, 25 years, millions) 4-16

Table 4-7: Summary of Feasible Funding Options 4-18

Table 4-8: Funding Option – Transportation Impact Fees 4-19

Table 4-9: Funding Option – Dedicated Sales Tax / Regional Transportation Authority 4-20

Table 4-10: Funding Option - Transportation Maintenance Fee 4-21

Table 4-11: Funding Option – Wheel Tax..... 4-22

Table 5-1: Facilities Available for Non-Motorized Travel in Mesa County 5-3

Table 5-2: Non-Motorized Vision and Baseline Scenarios 5-13

Table 5-3: Non-Motorized System Alternatives 5-16

Table 5-4: Prioritization of Non-Motorized System Alternatives 5-18

Table 5-5: Non-Motorized Revenue Forecast (2010 \$\$, millions) 5-20

Table 5-6: Available Funding for Non-Motorized Facilities in 5-Year Increments 5-20

Table 5-7: Financially-Constrained Non-Motorized Plan 5-23

Table 6-1: Existing Transit Service Data 6-6

Table 6-2: Transit Vision and Baseline Scenarios..... 6-20

Table 6-3: Transit Vision Scenario Detail 6-21

Table 6-4: Baseline Transit Scenario Detail..... 6-23

Table 6-5: Low Base Transit Scenario Detail 6-25

Table 6-6: Transit Revenue Funding Sources and Forecast (2010 \$\$, millions) 6-28

Table 6-7: Available Funding for the Transit System in 5-Year Increments (millions) 6-28

Table 7-1: Roadway Improvement Categories 7-4

Table 7-2: Roadway System Performance in the Base Year (2005)..... 7-7

Table 7-3: Roadway System Performance for the Existing and Committed Network..... 7-18

Table 7-4: Roadway Vision and Baseline Scenarios 7-20

Table 7-5: Roadway Alternatives 7-22

Table 7-6: Unit Costs (2010 \$\$)..... 7-26

Table 7-7: On-System Roadway Capacity Project Rankings - CDOT 7-29

Table 7-8: Roadway Capacity Project Rankings – Fruita..... 7-30

Table 7-9: Roadway Capacity Project Rankings – Mesa County 7-30

Table 7-10: Roadway Capacity Project Rankings – Grand Junction..... 7-31

Table 7-11: Roadway Capacity Project Rankings – Collbran and De Beque 7-33

Table 7-12: Summary of Financially-Constrained Roadway Capacity Projects..... 7-34

Table 7-13: Roadway System Performance for the Financially-Constrained Roadway Plan..... 7-36

Table 7-14: Comparison of Congestion Levels..... 7-37

Table 7-15: Roadway Safety Improvements for Consideration..... 7-40

Table 7-16: Transportation System Management Alternatives for Consideration 7-41

Table 8-1: Multi-Modal Corridors in the Mesa County Region..... 8-3

Tables 8-2 to 8-36: Corridor Characteristics..... 8-5 thru 8-71

Table 10-1: Socioeconomic Characteristics – Region, State, Nation 10-3

Table 10-2: Environmental Justice Analysis (Mesa County) 10-5

APPENDICES

- Map Appendix
- Public Involvement Appendix