

TABLE OF CONTENTS

Table of Contents iii

Maps vi

Figures..... vii

Tables..... vii

Executive Summary..... viii

Chapter 1 Introduction 1

 Purpose and Objectives 1

 Sponsoring Agencies 1

 Study Area..... 2

 Population and Employment 3

 Border Crossings 4

 International Ports..... 5

 Summary of Introductory Information 5

Chapter 2 Objectives and Responsibilities..... 6

 Review of Current Ordinances and Existing Route Plans..... 6

Chapter 3 Public Involvement..... 12

 Identification of Participants..... 12

 Establishment of Objectives 12

 Consultation with Affected Jurisdictions 13

 Stakeholder Advisory Committee 13

 Public Hearings..... 17

 Consultation Meetings with Additional Stakeholder Groups 21



Incorporation of Stakeholder Input into the Planning and Decision-making Process..... 23

Chapter 4 Alternatives Analysis and Development of Baseline Route Alternatives..... 25

 Methodology..... 25

 Selection of a Compatible Roadway Network 25

 Identification of Potential Entry Points..... 26

 Determination of Existing NRHM Routes in Adjacent Counties 28

 Identification Roadway Alternatives and Removal of Unsuitable Roadways..... 28

 Initial Risk Component 29

 Baseline Routes Developed 29

 Baseline Alternative NRHM Routes Presented to Advisory Committee 30

 Summary of Alternatives Analysis and Development of Baseline Route Alternatives 31

Chapter 5 Risk Analysis 32

 Methodology..... 32

 Incident Consequences 32

 Risk Impact Zone 32

 Population Exposed and Integration of Collected Data into the Risk Analysis..... 34

 Emergency Responders..... 35

 Crash Probability..... 35

 Crash Data..... 35

 Risk Calculation 36

 Calculating Potential Consequences Value..... 37

 Calculating Crash Probability 37

 Calculating Risk by Segment 37

 Assessment of Cumulative Risk for each Route..... 37



Summary of Risk Analysis..... 40

Chapter 6 Additional Factors Considered 41

 Recent Roadway Upgrades 41

 Environmentally Sensitive Features..... 42

 Wildlife Management Areas 43

 Environmental Justice 44

 Emergency Response Time 45

 Summary of Additional Factors Considered 46

Chapter 7 Development of Alternative Routes for Presentation to the Public..... 47

 Through Routing Criteria and Delays in Transportation 47

 Burden on Commerce 48

 Alternative NRHM Route Scenarios..... 50

 Feedback from Public Hearings 54

 Summary Development of Alternative Routes for Presentation to the Public 54

Chapter 8 Recommended NRHM Route 55

 preliminary Conceptual Signing Plan 57

APPENDICES 59

 Appendix A: Letters of Endorsement..... 60

 Appendix B: Proposed Enforcement and Through-Routing Policies 63

 Appendix C: Policy Board Meetings – Recommended Route Approval..... 65

 Appendix D: Model Ordinance Language for NRHM Truck Routes 73

 Appendix E: Advisory Committee Outreach 82

 Appendix F: Advisory Committee Meeting Sign-In sheets..... 83

 Appendix G: Public Hearings Notifications 91



Appendix H: Public Hearing Sign-in Sheet..... 100

Appendix I: Public Hearing Notes..... 106

Appendix J: Public Hearing Presentation 111

Appendix K: Public Hearing Feedback and Evaluation 130

Appendix L: Stakeholder Consultation Feedback 135

Appendix M: Stakeholder Consultation Meeting Notes 143

Appendix N: Risk Analysis Comparison Near-International Blvd/SH 4 153

Appendix O: Risk Comparison Table for Harlingen, TX 154

Appendix P: FHWA NRHM Route Designation Guidelines- Worksheets 157

Appendix Q: List of Proposed Prohibited Transported Hazardous Materials..... 170

MAPS

Map 1: Recommended Route xi

Map 2: Cameron County Study Area..... 3

Map 3: Existing NRHM Routes in the City of Harlingen 6

Map 4: Proposed NRHM Route for San Benito 7

Map 5: Initial Set of Entry Points 27

Map 6 First Round Routing Analysis Results..... 30

Map 7: First Round NRHM Proposed Route for Cameron 38

Map 8: First Round Proposed Harlingen NRHM Route showing Total Risk 39

Map 9: Existing Harlingen NRHM Route - Total Risk 39

Map 10: NRHM Route for Cameron County Based on Second Round of Analyses.....42

Map 11: NRHM Route for Cameron County Based on Third Round of Analyses.....43

Map 12: Environmental Justice Areas in Cameron County46



Map 13: NRHM Route Scenario #1 52

Map 14: NRHM Route Scenario #2 523

Map 15: NRHM Route Scenario #3 534

Map 16: Recommended NRHM Route for Cameron County..... 57

Map 17: Cameron County Conceptual NRHM Route Signing Plan.....58

FIGURES

Figure 1 FHWA NRHM Route Designation Process 8

Figure 2 Questions for Advisory Committee Members 16

Figure 3 Public Meeting Publicity..... 18

Figure 4: Advertisement for Public Hearings 20

Figure 5: Old Port Isabel Rd..... 28

Figure 6: Buena Vista Rd. 28

Figure 7: Crash Risk Formula..... 36

TABLES

Table 1 Media Outlets..... 17

Table 2: Impact Zones by Commodity: Emergency Response Guidebooks (RSPA P 5800.6), (USDOT)..... 34

