

TxDOT El Paso Freight Study Phase II

Kick-Off Meeting



July 6, 2012

Overview

- Introduction of Team
- Objectives of Study
- Study Tasks
- Methodology of Study
- Schedule



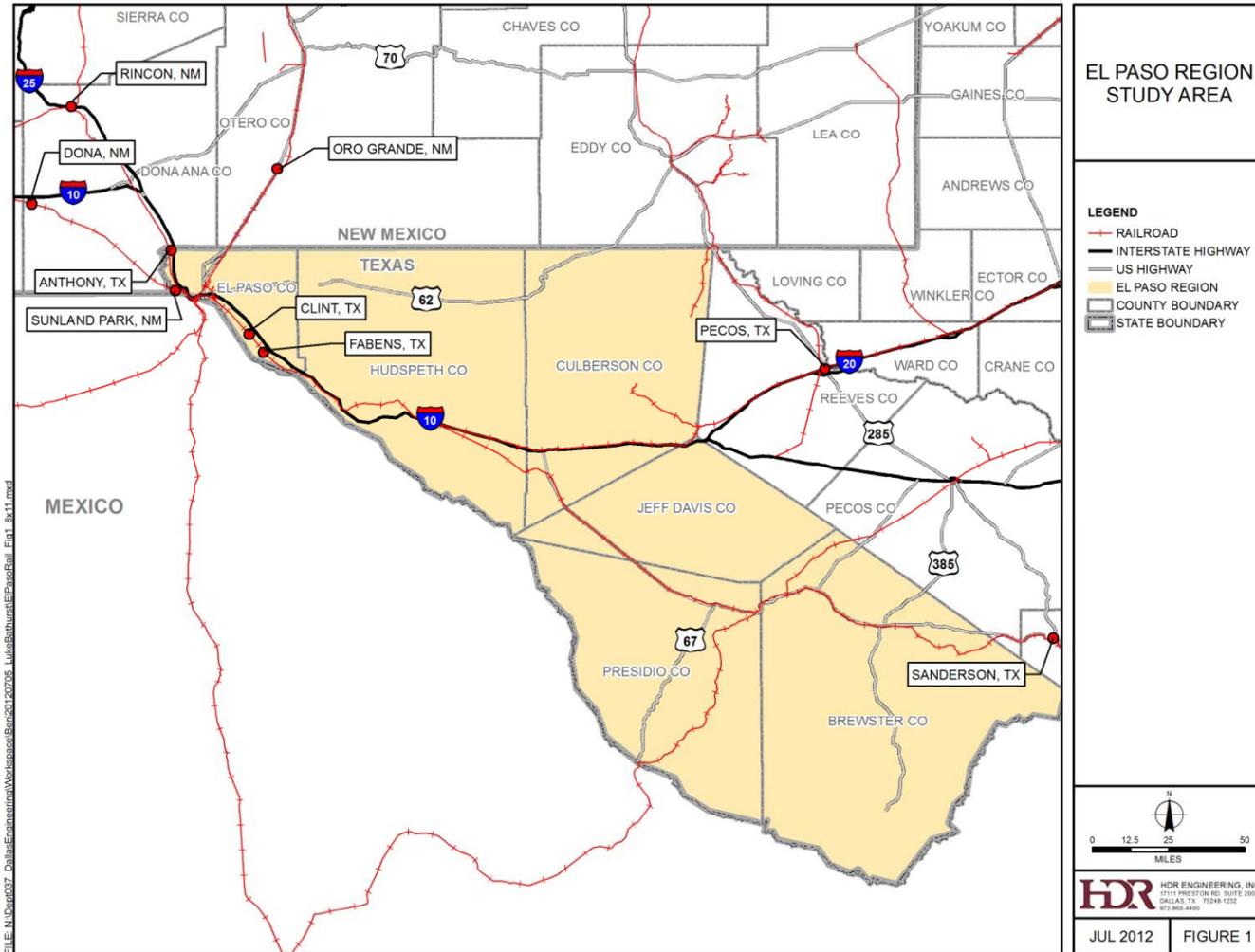
Team Members

- TxDOT
 - Jennifer Moczygemba, PE – Project Director
 - Orlando Jamandre – Project Manager
- HDR – Prime
 - Luke Bathurst, PE – Project Manager
 - Mark Hemphill – Task Manager, Rail Operations
 - Scott Hale, RTC Modeling
- HNTB – Ph I Continuity, Conceptual Engineering
- Quantum – CE, Regional Expertise, Estimating
- Ximenes – Stakeholder Coordination

Objectives

- Continuation of Phase I Study
- Identify 20-year rail freight growth in and through El Paso region
- Assess effects of freight growth on existing rail infrastructure capacity and velocity
- Assess effects on El Paso region (e.g., grade crossing occupancy times)
- Identify potential projects that would resolve capacity or fluidity issues, and reduce impacts

Study Area



Phase I Study

- Completed April 2011
- Inventory of existing rail system
- Assessed rail operations
- Forecasted rail freight growth of 13% in 2035
- Developed Base Case Rail Traffic Controller (RTC) model
- Identified rail system capacity constraints
- Reviewed planned and proposed transportation projects in region
- Assessed roadway/rail grade crossing impacts
- Identified proposed crossing improvements

Phase I Study

- Current Rail Projects
 - Ciudad Juárez Grade Separations (5)
 - Expected completion 2015
 - Will eliminate current 9-hour curfew
 - Current avg. traffic is 8.7 BNSF and 1-2 UP trains/day
 - 2043 estimate is 22 trains per day
 - UP Strauss Yard (Santa Teresa)
 - Expected completion in 2015
 - Main track fueling facility
 - Intermodal block swapping
- Proposed Projects
 - BNSF El Paso (Santa Fe) Yard Relocation
 - Santa Teresa Rail Bypass and International Crossing

Phase I Study

Subdivision	Grade Crossing Street Name	City	Crossing Number	ADT	Accident History (2005-2009)	Potential Improvement	Estimated Public Benefit
UP Valentine	Zaragoza Road	El Paso	741231D	14,350	1	Grade Separation	\$7,724,165
UP Valentine	Copia Street	El Paso	741204G	17,600	0	Grade Separation	\$6,508,922
UP Valentine	San Marcial	El Paso	741200E	375	0	Crossing Closure	
UP Valentine	Estrella	El Paso	741201L	375	0	Crossing Closure	
UP Valentine	Cebada Street	El Paso	741202T	375	0	Crossing Closure	
UP Valentine	Grama Street	El Paso	741203A	375	0	Crossing Closure	
UP Valentine	Buford Street	Clint	764227D	11,880	1	Grade Separation	\$5,137,772
UP Valentine	Fabens Street	Fabens	764089S	9,600	0	Grade Separation	\$4,352,281
UP Valentine	3rd Street	Fabens	764090L	50	0	Crossing Closure	
UP Valentine	4th Street	Fabens	742914X	1,930	0	Crossing Closure	
UP Valentine	Penndale Road	El Paso	741229C	7,820	2	Grade Separation	\$4,047,845
UP Carrizozo	Montana Street	El Paso	741159P	19,700	0	Grade Separation	\$3,048,202
UP Carrizozo	Yandell Drive	El Paso	741158H	2,080	0	Crossing Closure	
UP Valentine	FM 1110	Clint	764083B	7,900	0	Grade Separation	\$2,758,112
UP Valentine	Chelsea Drive	El Paso	741212Y	6,670	0	Grade Separation	\$2,394,366
UP Valentine	Concepcion Street	El Paso	741209R	375	0	Crossing Closure	
UP Carrizozo	Missouri Avenue	El Paso	741614F	16,570	0	Grade Separation	\$2,365,602
BNSF El Paso	Country Club Road	El Paso	019780K	18,360	0	Grade Separation	\$2,270,223
UP Valentine	FM 1505/Clark	El Paso	741216B	7,600	0	Grade Separation	\$2,232,563
UP Carrizozo	Piedras Street	El Paso	741165T	5,790	1	Grade Separation	\$2,173,371
UP Carrizozo	Rosewood Street	El Paso	741160J	375	0	Crossing Closure	
UP Carrizozo	Maple Street	El Paso	741161R	375	0	Crossing Closure	
UP Carrizozo	Birch Street	El Paso	741162X	375	0	Crossing Closure	
UP Carrizozo	Cedar Street	El Paso	741163E	375	1	Crossing Closure	
UP Carrizozo	Elm Street	El Paso	741164L	375	0	Crossing Closure	
BNSF El Paso	Redd Road	El Paso	019776V	7,590	1	Grade Separation	
BNSF El Paso	W. Green Avenue	El Paso	019620W	2,000	0	Crossing Closure	\$1,702,671
BNSF El Paso	FM 1905/ Washington Street	Anthony	019753N	9,500	1	Grade Separation	\$1,681,576
BNSF El Paso	Sunland Park Drive	El Paso	019786B	9,250	1	Grade Separation	\$1,363,698
BNSF El Paso	FM 259	El Paso	019769K	9,000	0	Grade Separation	\$973,671
BNSF El Paso	Suset Drive	El Paso	019781S	7,790	0	Grade Separation	\$770,814
BNSF El Paso	Executive Center	El Paso	019797N	5,060	0	Grade Separation	\$524,016

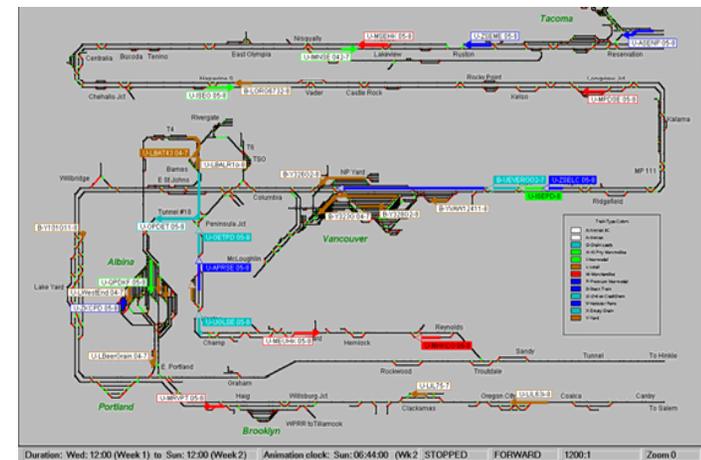
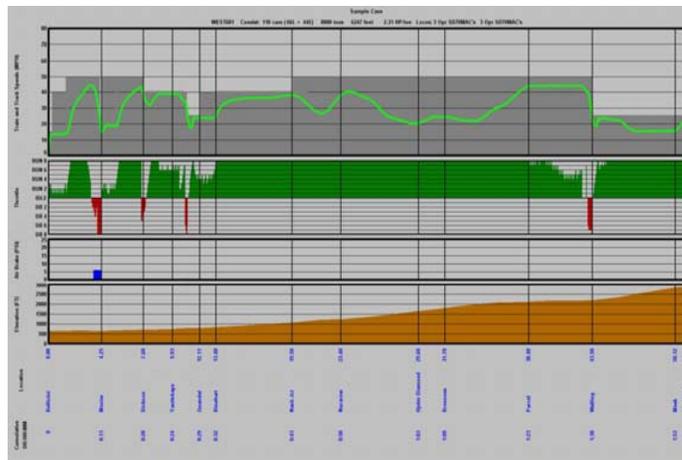
Phase II – Task 1

- Stakeholder Coordination / Participation
 - TXDOT
 - NMDOT
 - City of El Paso
 - El Paso County
 - El Paso MPO
 - City of Sunland Park
 - Camino Real Regional Mobility Authority
 - Greater El Paso Chamber of Commerce
 - El Paso Hispanic Chamber of Commerce
 - El Paso Central Business Association
 - BNSF Railway
 - Union Pacific Railroad
 - US Customs & Border Patrol



Phase II – Task 2

- Perform RTC simulation modeling of rail network for likely 20-year freight growth
 - Identify capacity bottlenecks
 - Identify potential improvements
 - Validate benefits of potential improvements



Phase II – Task 3

- Develop planned and potential improvements that can increase capacity and efficiency of rail operations
- Develop planned and potential improvements that can reduce impacts on El Paso region
- Identify additional railroad crossings for potential improvement (# in Phase I)
 - Grade separations (18)
 - Crossing closures (14)
- Validate benefits of potential improvements using RTC modeling

Phase II – Task 4

- Generate conceptual exhibits and cost estimates for constructing each improvement not otherwise already programmed by public or private entities
- Estimate public benefits
 - Reduction in vehicle travel time and emissions
 - Enhance rail and roadway safety

Methodology

1. Collaborate with Stakeholders
 - Capture local experience
 - Update list of identified planned improvements
 - Understand opportunities and challenges
 - Understand impacts of potential projects
2. Develop Rail Simulation Model
 - Validate Base Case from Phase I
 - Add 20-year rail traffic growth
 - Identify bottlenecks and efficiency issues



Methodology

3. Develop Potential Projects from Rail Model

- Develop potential benefit
- Develop potential cost of construction
- Review initial project list with stakeholders
- Refine project list based on stakeholder input

4. Refine Potential Projects

- Quantify benefits in rail operations model
- Develop conceptual exhibits describing projects
- Determine conceptual cost estimates
- Quantify roadway crossing improvements



Methodology

5. Draft Report

- Obtain stakeholder input on proposed projects
- Describe projects
 - Purpose and Need
 - Conceptual Exhibits
 - Benefits
 - Costs

6. Final Report

- Describe RTC Planning Cases
- Document basis of benefits and costs
- Propose implementation scenario

Study Schedule

- Kick-Off Meeting – July 2012
- Release of RTC Model – October 2013
- Develop List of Proposed Projects – September 2012 (**December 2013**)
- Stakeholder Meeting #1 – October 2012 (**January 2013**)
- Develop Exhibits/Estimates – November 2012 (**February 2013**)
- Draft Report – November 2012 (**February 2013**)
- Determine Benefits – January 2013 (**April 2013**)
- Stakeholder Meeting #2 – April 2013 (**June 2013**)
- Final Report – April 2013 (**June 2013**)

Discussion and Questions