

I-5 Transportation Alternatives Analysis and Operations Model Mounts Road to SR 512

Regional Access Mobility Partnership
Briefing

October 7, 2009



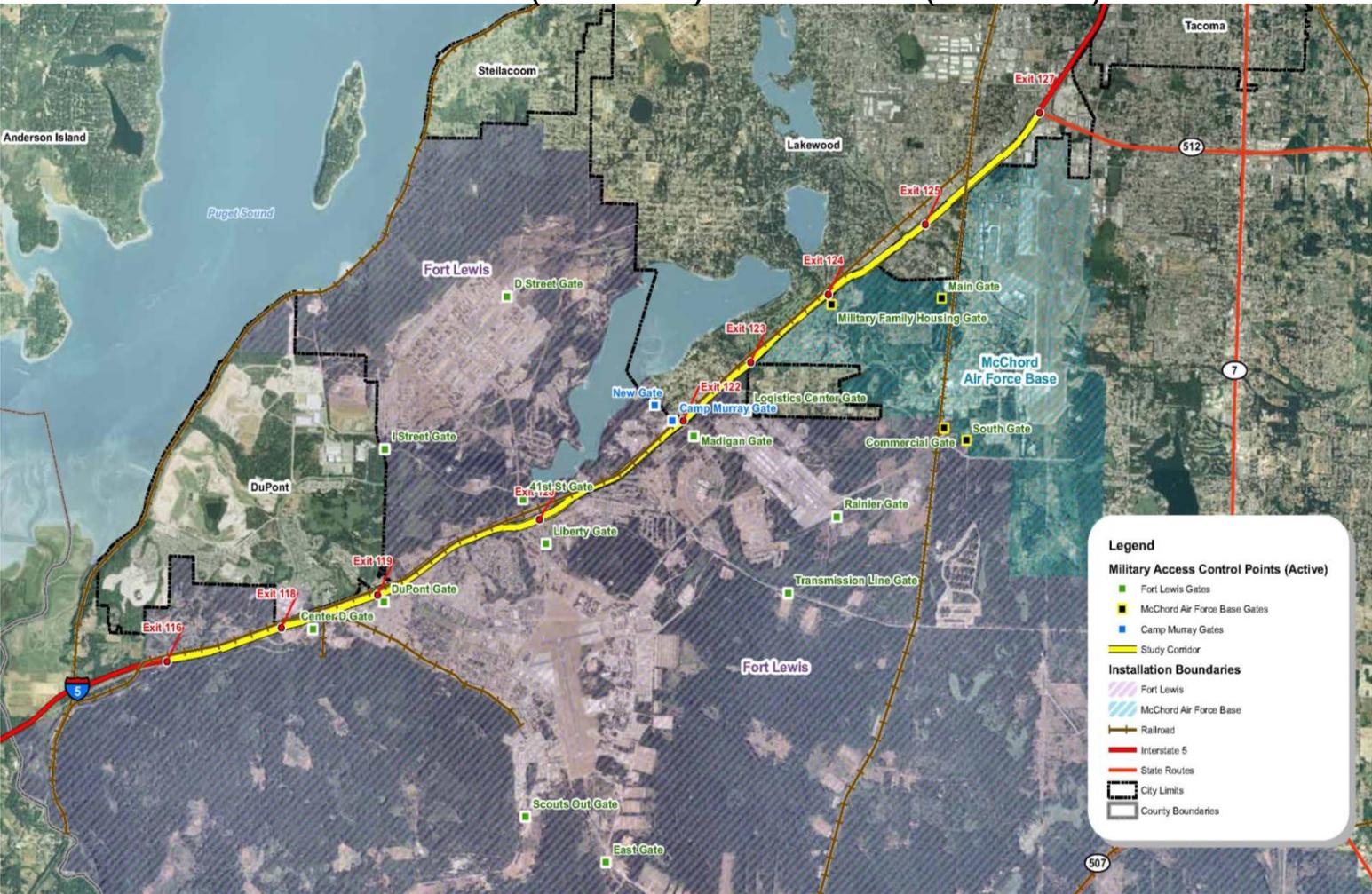
Presentation Outline

- Project Overview
- Traffic Volumes/Growth Trends
- Safety Analysis
- Interchange Screening Process
- Next Steps



Study Area

Mounts Road (Exit 116) to SR 512 (Exit 127)



Project Overview

- Office of Economic Adjustment (Dept. of Defense) funded
- Project Team
 - City of Lakewood – lead
 - Transpo Group
 - WSDOT
- Technical Review Committee
 - 18 agencies represented
 - Provide guidance and input to Project Team
 - Keep their respective agency informed on progress and findings
 - Three meetings held, next meeting scheduled for November 12
- <http://www.wsdot.wa.gov/projects/i5/ftlewismcchordtransportation/>



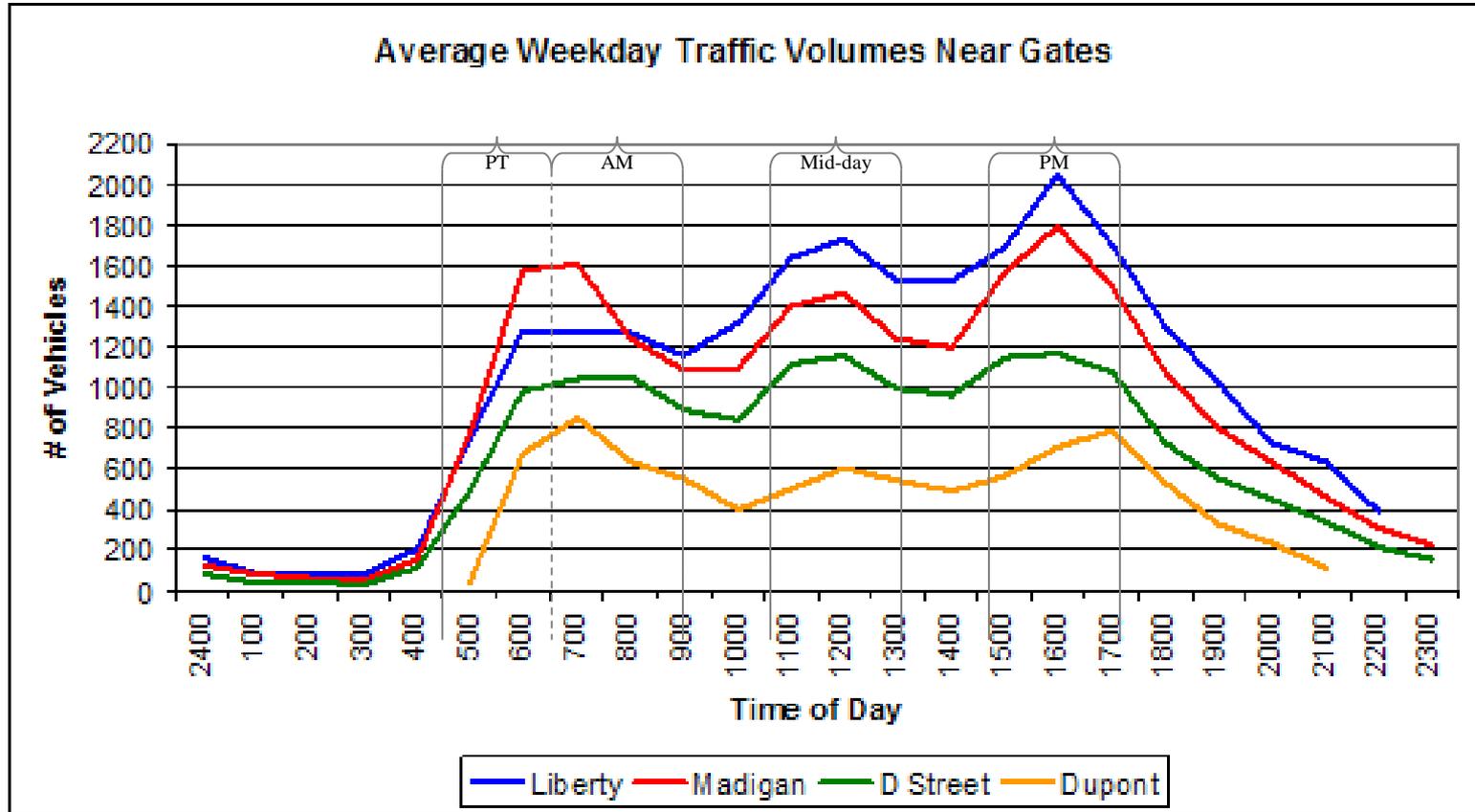
Modeling Efforts

- City of Lakewood Travel Demand Model
- Incorporated Existing Military Patterns (regional trip distribution and assignment to access control points)
- Year 2030 Forecast Conditions
 - Includes Cross Base Highway
 - Includes anticipated military growth initiatives

I-5 Traffic Volumes/Growth Trends

- Average Daily Traffic Volumes (2008)
 - Mounts Road – 109,000
 - SR 512 – 143,000
- PM Peak Hour Volumes (2008)
 - Mounts Road – 9,000 vehicles (dual direction)
 - SR 512 (south) – 11,000 vehicles (dual direction)
- I-5 Mainline Volumes increased by 6.4% from 2002 - 2008

Hourly Profile of Base Traffic



Military Growth compared to Regional Growth

<i>Ft. Lewis</i>	<i>2000</i>	<i>2009</i>	<i>Net Change</i>	<i>% Change</i>
Military	19,089	30,800	11,711	61.3%
<u>Dependents</u>	<u>29,015</u>	<u>46,816</u>	<u>17,801</u>	<u>61.3%</u>
Totals	48,104	77,616	29,512	61.3%
<i>Counties (including cities)</i>	<i>2000</i>	<i>2009</i>	<i>Net Change</i>	<i>% Change</i>
Pierce County	700,820	813,600	112,780	16.1%
<u>Thurston County</u>	<u>207,355</u>	<u>249,800</u>	<u>42,445</u>	<u>20.5%</u>
Totals	908,175	1,063,400	155,225	17.1%

Source: Adapted from April 9, 2009 presentation by Tom Knight, Ft. Lewis Deputy Garrison Commander



Safety Analysis

2002 - 2008

- Total Collisions = 2,956
 - 2002 = 331 collisions/yr
 - 2008 = 507 collisions/yr
 - 53 percent increase
- Two fatalities occurred
- Majority of collisions are rear-end, single vehicle, and sideswipe
- Indicative of increased congestion
- Highest accident locations; SR 512, Bridgeport Way, and Thorne Lane



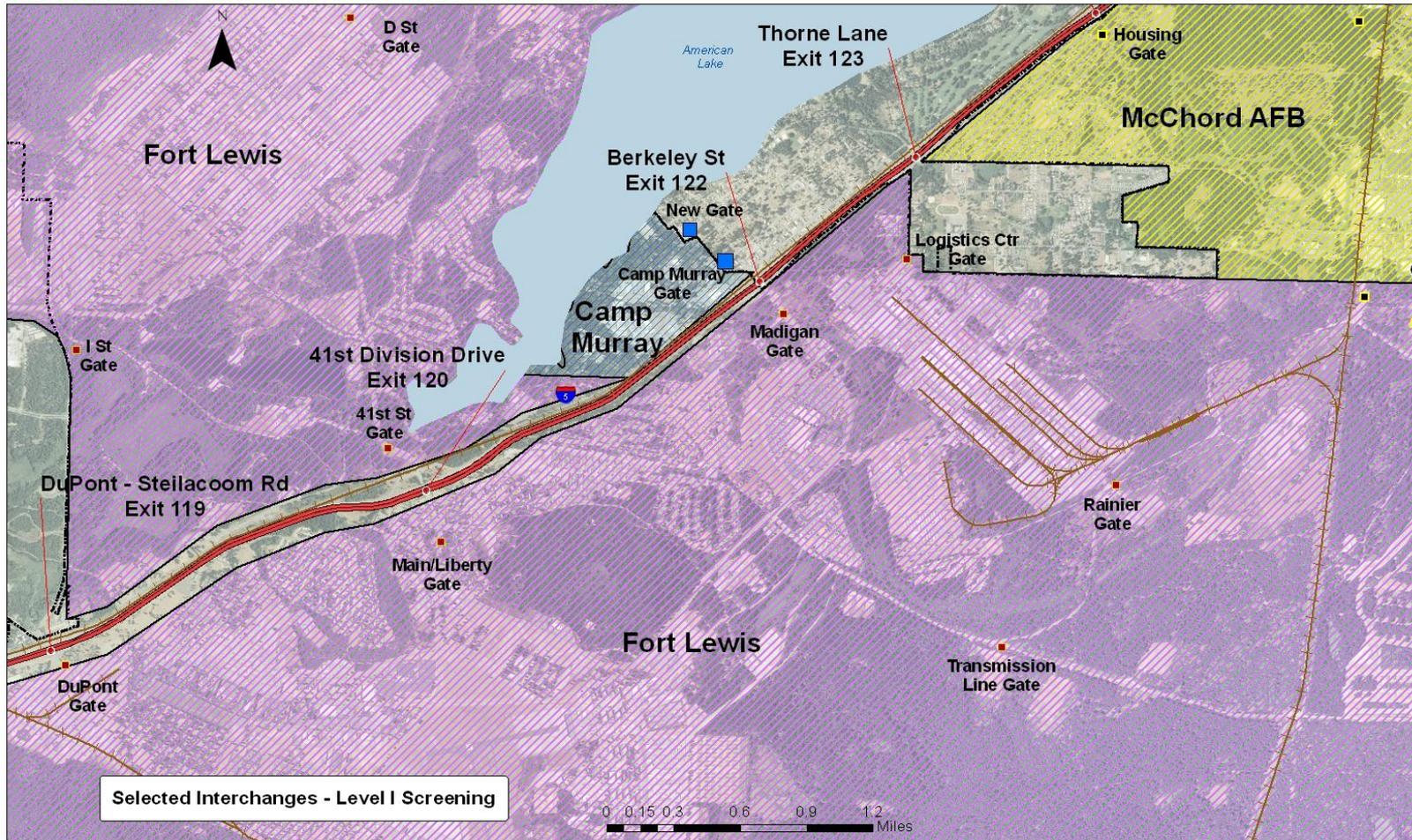
Interchange Screening Process



Level 1 Screening

- Reduce 9 study area interchanges to 4 for detailed concept development
- Criteria evaluated included military impact (percent of total traffic), safety issues, and operational issues

Focused Study Area



Traffic Operations Model and Alternatives Analysis: I-5 from SR 512 to Mounts Rd
RAMP Presentation 10.7.09

Next Steps

- Complete Tier 2 Screening of preliminary interchange improvement concepts
- Finalize baseline documentation
- Refine operational analysis to include a simulation component for the four selected interchanges
- TRC Meeting #3 – Scheduled for November 12