San Diego Freeway (Interstate 405) Widening Project

Orange County Transportation Authority
Board of Directors Meeting
April 14, 2008

Review of Interstate 405 (I-405) Major Investment Study (MIS) Presentation to the Board of Directors in 2005

OCTA

SAN DIEGO FREEWAY (I-405) MAJOR INVESTMENT STUDY

FINAL RECOMMENDATIONS

Board of Directors Meeting
October 14, 2005






Study Area

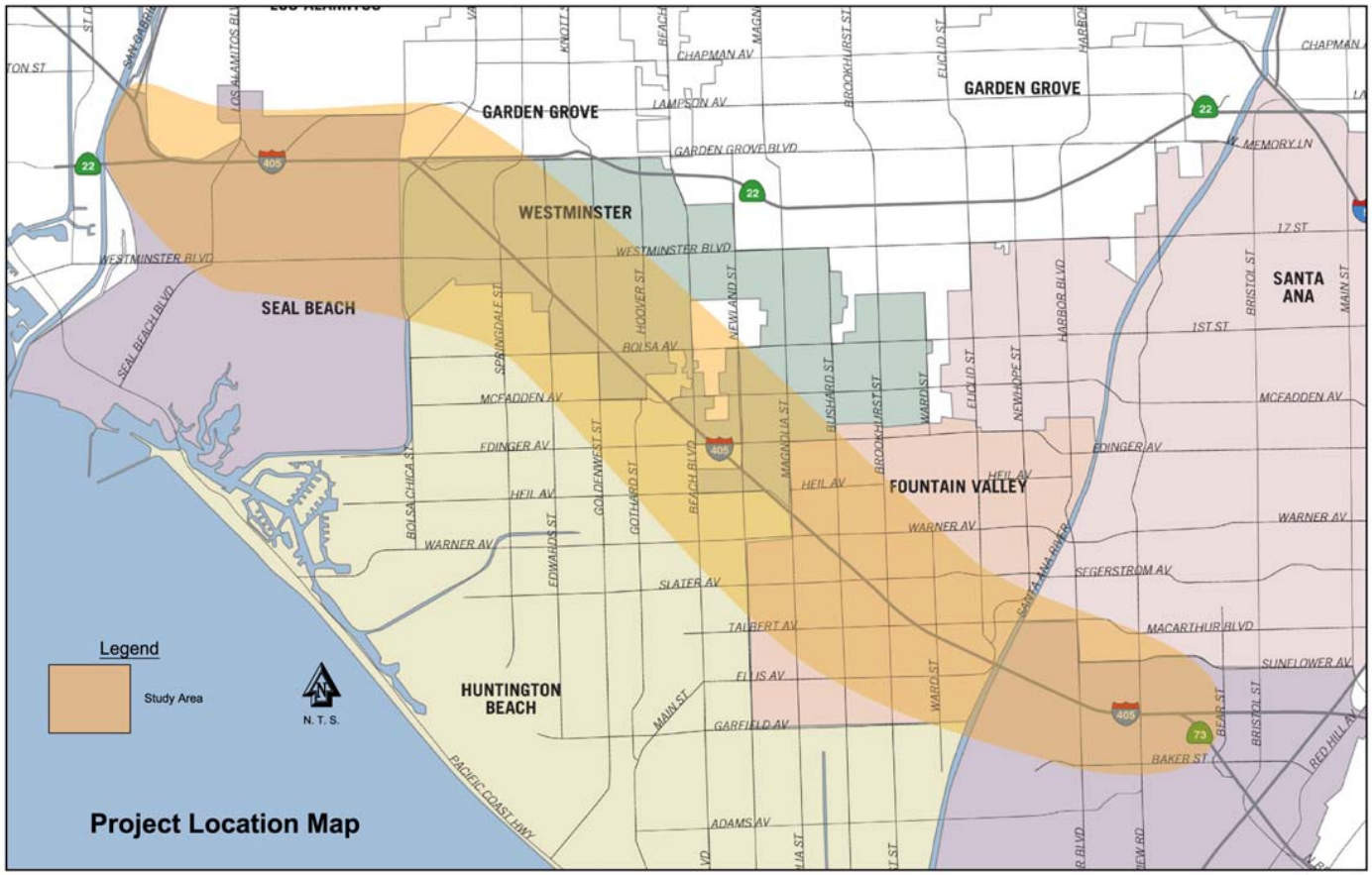


Figure 1






Purpose and Need

- Demand already exceeds current capacity
- Diversion of traffic is taking place onto arterials
- Operational problems occur on the freeway
- The corridor has a lack of public transportation options





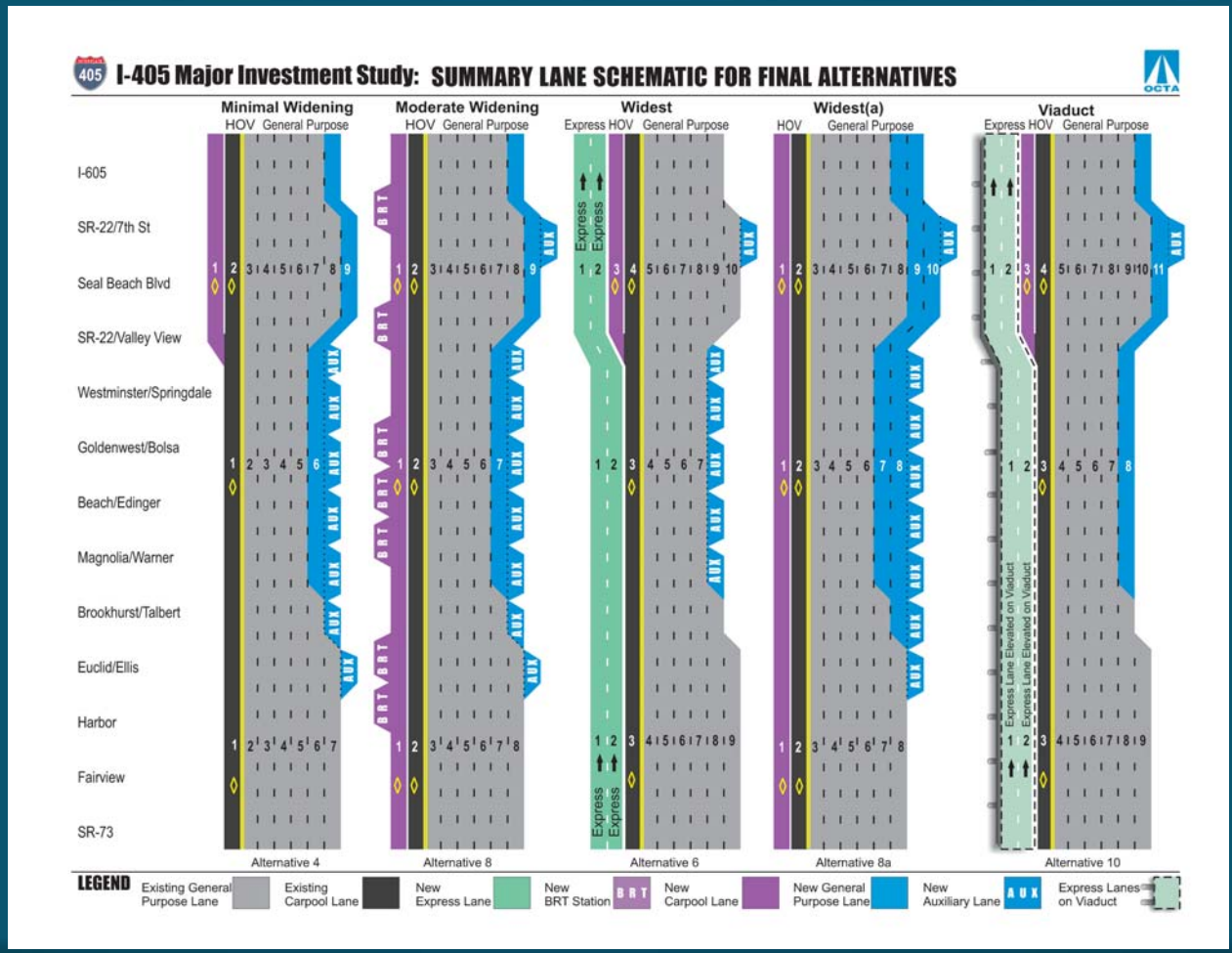

13 Initial Alternatives

- **Themes**
  - Minimal Right-of-Way Widening
  - Horizontal Widening
  - Vertical Expansion
- **Concepts**
  - Additional General Purpose Lanes
  - Additional Carpool Lanes
  - New Express Lanes
  - Auxiliary Lanes
  - Transit






Final Alternatives



Graphic excludes "Alt. 8b" for presentation purposes






Community Outreach

- **6 Public Open Houses**
  - Costa Mesa, Fountain Valley, Huntington Beach, Rossmoor, Seal Beach – Leisure World, Westminster
  - Notification:
    - Mailing to 700 on project mailing list
    - Ad in local newspapers
    - Media releases to all local media
    - Employer outreach network
    - Door hangers to 1000+ homes along I-405
    - OCTA Website
    - Information posted in local libraries
- **Presentations to civic groups on request**






Comparison of Final Alternatives

	Minimal Widening - Alternative 4	Moderate Widening - Alternative 8	Moderate Widening(b) - Alternative 8b	Widest - Alternative 6	Widest(a) - Alternative 8a	Viaduct - Alternative 10
Reduction in Annual Person Vehicle Hours of Delay	80 million hrs	150 million hrs	145 million hrs	170 million hrs	190 million hrs	180 million hrs
Reduction in Daily Arterial Vehicle Miles of Travel in the Corridor	81,000	149,000	140,000	188,000	200,000	195,000
Increase in Peak Period Freeway Speeds in MPH (along I-405 between I-605 and SR-73)	5 mph	7 mph	6 mph	8 mph	10 mph	9 mph
Increase in Daily Corridor Transit Trips	2,000	14,000	14,000	3,000	3,000	3,000
Cost	$0.5 billion	$1.6 billion	$1.5 billion	$2.1 billion	$2.0 billion	$2.2 billion
Cost Effectiveness: Annualized Cost per Annual Vehicle Person Hour Saved	$0.58	$1.02	$1.04	$1.07	$0.91	$1.05
Potential Acquisition of Single Family Detached Residences	11	87	30	105	105	15
Potential Acquisition of Multi-Family Residences	0	64	64	282	282	194
Potential Acquisition of Commercial Buildings (Sq Ft of Footprint)	48,000	361,000	361,000	491,000	491,000	48,000
Potential Number of Commercial Buildings Impacted (not all require full building acquisition)	3	15	15	26	26	3

Note: Data for the Moderate Widening(b) , Widest(a), and Viaduct alternatives are sketch planning estimates. All data are subject to change based on further analysis.





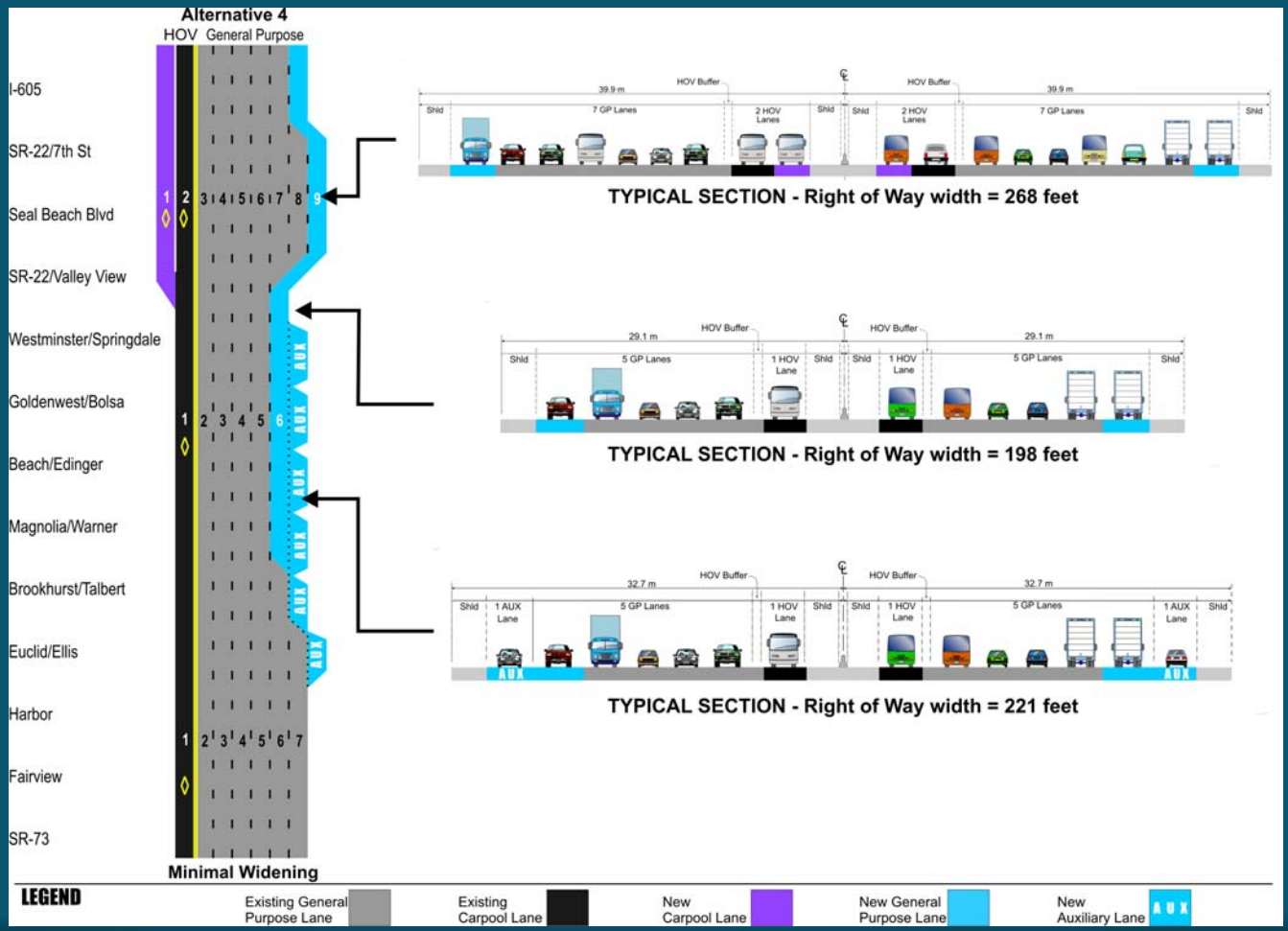

RP&H Recommendation

- **Alternative 4**
  - One additional general purpose lane in each direction north of Brookhurst
  - Auxiliary lanes at most locations
  - Minimal right-of-way impacts






RP&H Recommendation



Recommendations

- **Adopt Alternative 4 as the Locally Preferred Strategy for the I-405 corridor**

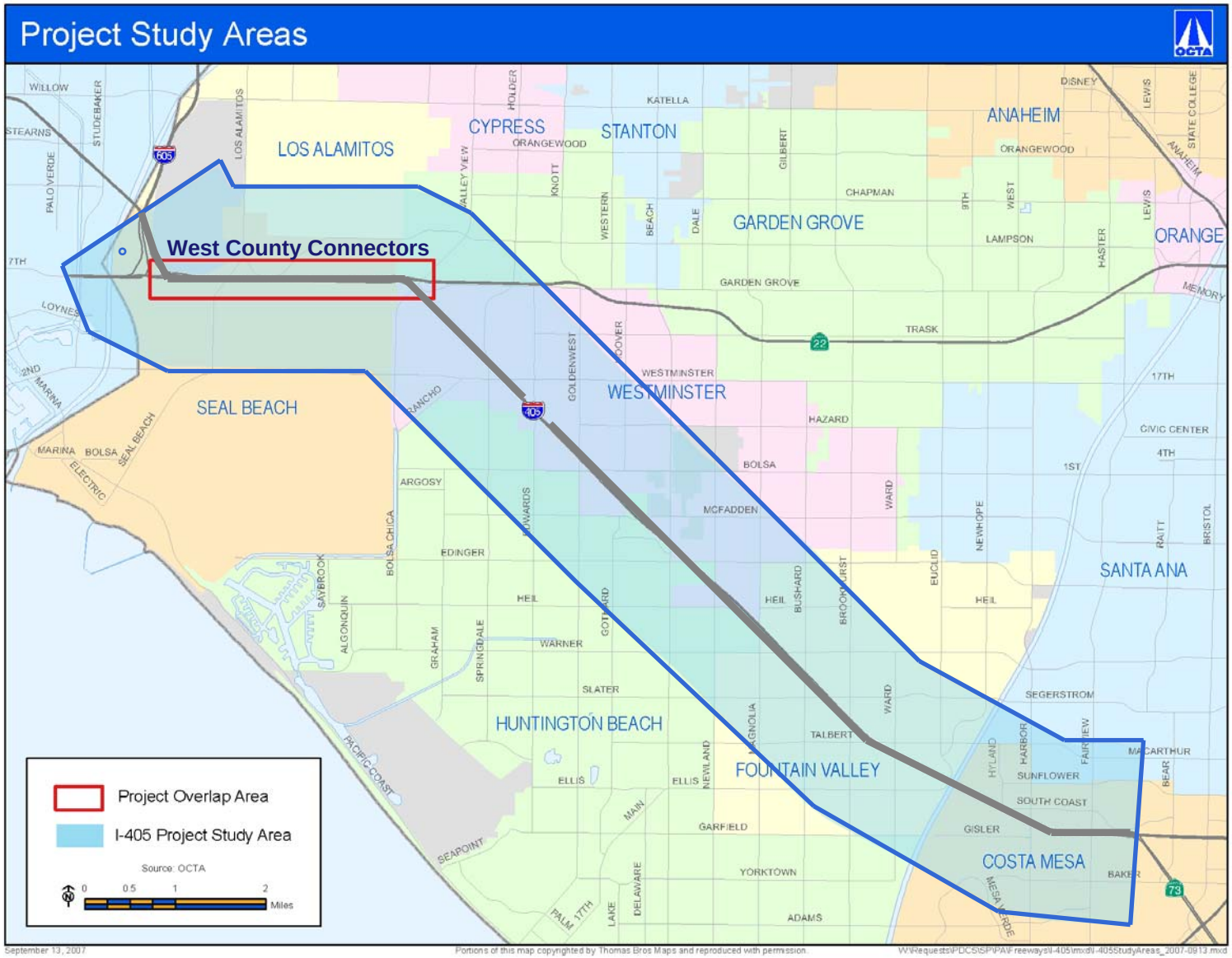





San Diego Freeway (Interstate 405) Widening Project

Actions to Initiate Environmental Review Phase

Interstate 405 Project Location



Interstate 405 Project Status

- 2005: Major Investment Study approved
- 2006: Renewed Measure M approved
- 2007: Project Study Report initiated
- 2008: Draft Project Study Report available

Project Study Report Alternatives

- No Build Alternative
- Alternative 1: Adds one lane in each direction
- Alternative 2: Adds two lanes in each direction

(Both build alternatives include auxiliary lanes and local interchange improvements)

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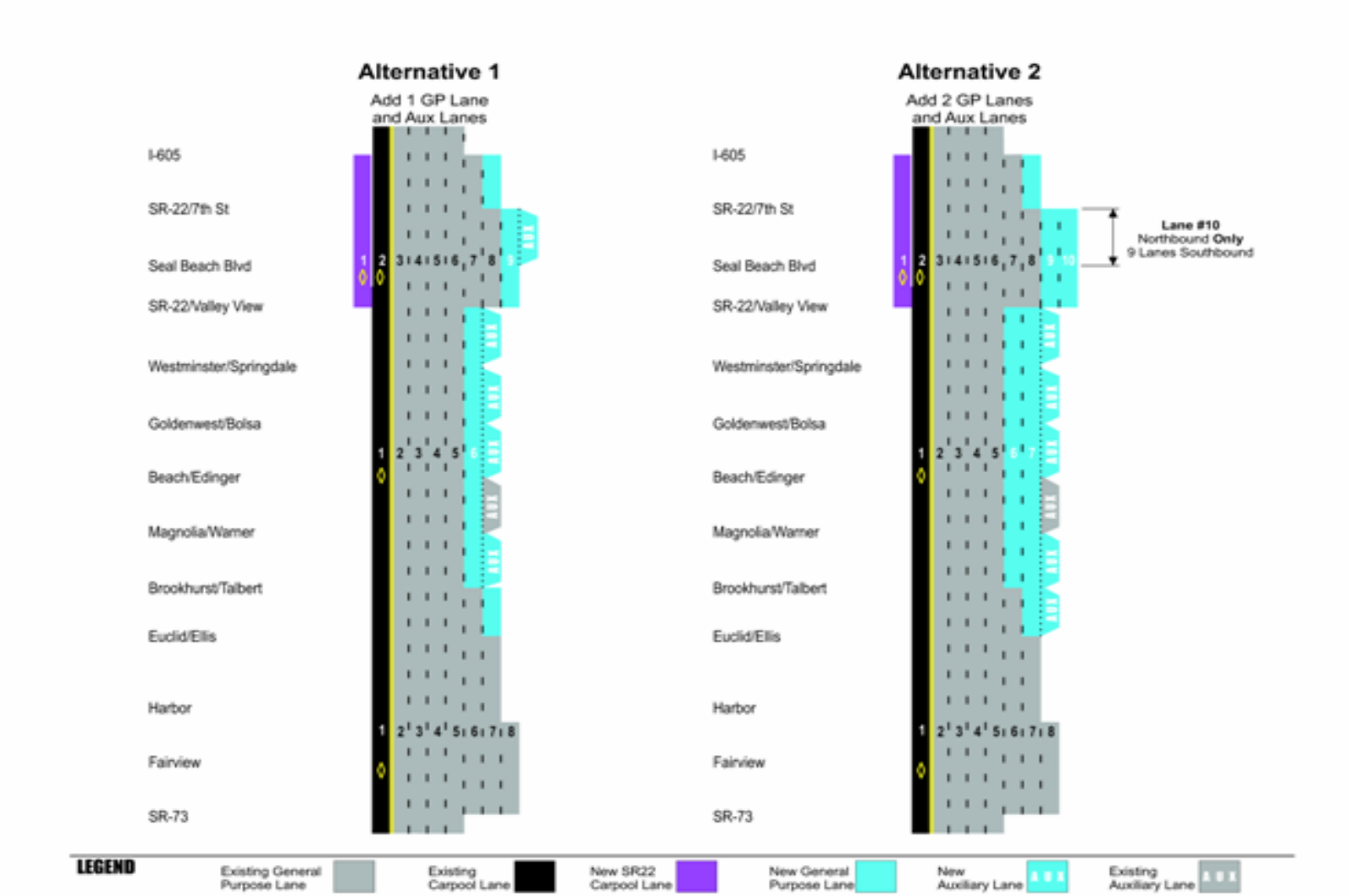
Interstate 405 Project Options



General Interchange Concepts

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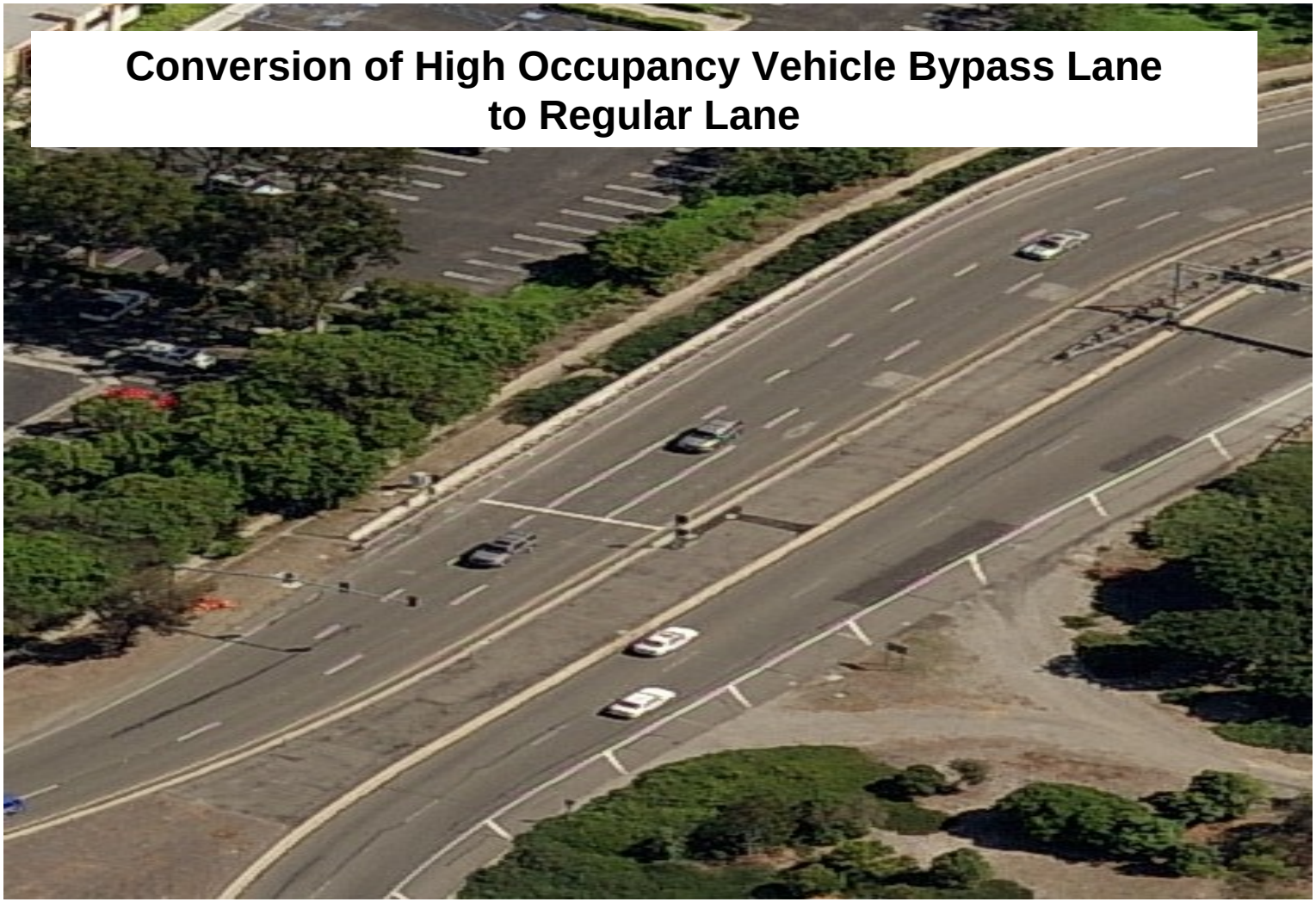

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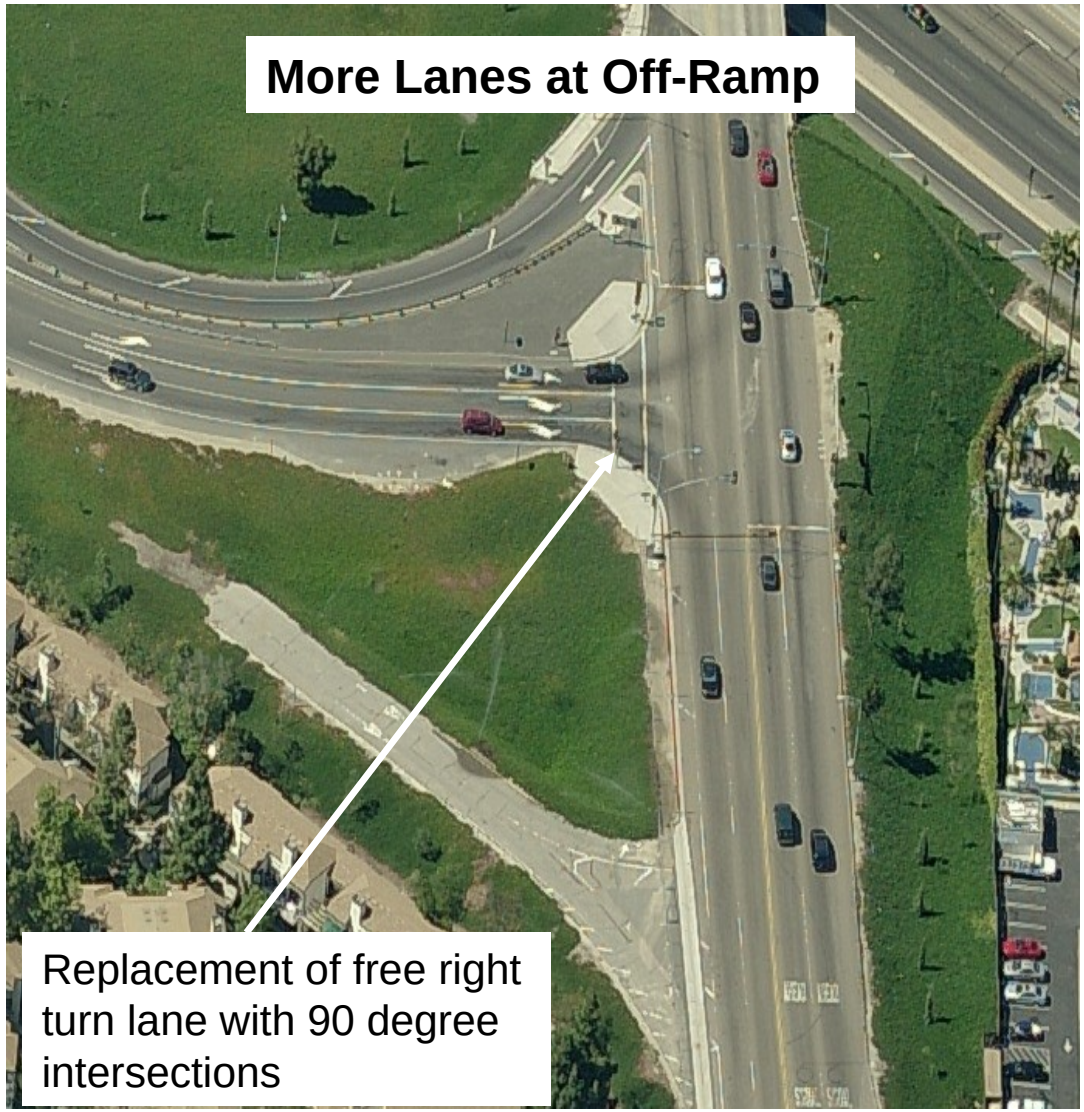

Environmental Issues

Preliminary Environmental Analysis Report

- Air Quality
- Community Concerns
- Noise Abatement
- Right-of-Way
- Traffic/Circulation
- Recommend Appropriate Environmental Document

Next Steps

- June 2008: Project Study Report (Conceptual Engineering) finalized
- September 2008: Notice to Proceed to Consultant to begin Project Approval & Environmental Document Phase
- September 2011: Project & Environmental Document Approved
- Public Outreach (Ongoing)

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