

STATE ROUTE 91 CORRIDOR OPERATION IMPROVEMENTS IN RIVERSIDE COUNTY

State Route 91 Advisory Committee Meeting
June 1, 2018

Michael Blomquist, RCTC Toll Program Director



Work performed since Opening

- Managed Express Lane demand
 - Toll rate changes
- Minor 91 corridor improvements
 - Signing, striping, channelizers
- Analyzed corridor traffic
 - Before and after the 91 Project opening
 - Fact-based, data-driven
- Remaining 91 corridor “Hot Spots”

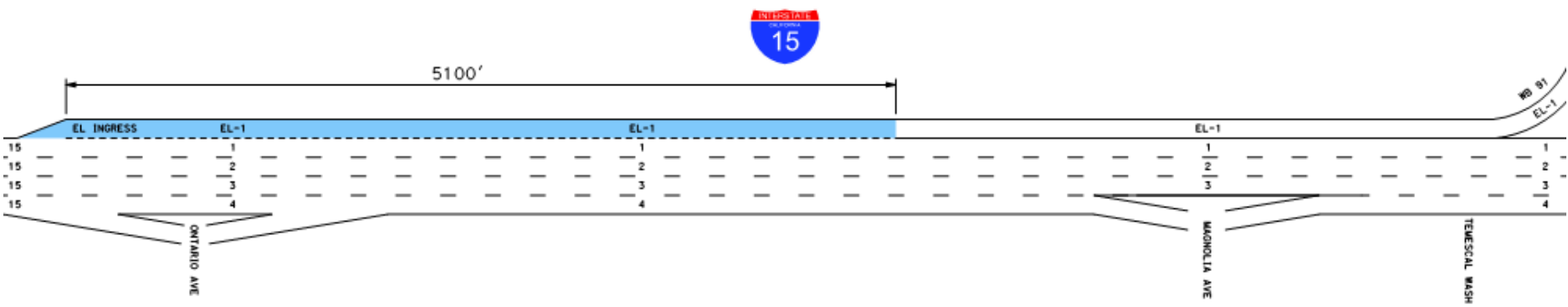


Work performed since Opening

- Engineered project options
- Analyzed project options
 - Traffic operations
 - Cost, schedule, and implementation issues
 - Toll Revenue
- Established criteria to evaluate options
- Staff recommendations
- Board approval

Express Lanes entrance at I-15 Northbound Recommendation

- Staff recommendation: full implementation of Option 1
- Extend express lane entrance south



OPTION 1



Express Lanes Entrance at I-15 Northbound Recommendation

Why option 1?

- Reduces impact to GP Lanes from queuing out of the Express Lanes
- No impact to the I-15 Express Lane project
- Negligible impact to toll revenue
- Cost and short-term implementation schedule

Implementation....

Cost: \$284,000

Schedule: 6 months



General Purpose Lanes Westbound Near the County Line Recommendation

- Staff recommendation: full implementation of Option 3
- Restripe the existing ingress/egress areas to a continuous weave lane

Option 3

Express Lanes Continuous Weave Lane





General Purpose Lanes Westbound Near the County Line Recommendation

Why option 3?

- Improves GP Lane traffic: speed, travel time, volume
- Anticipated acceptable impact to toll revenue
- Cost and short-term implementation schedule

Implementation....

Cost: \$386,000

Schedule: 9 months

General Purpose Lanes Westbound Near the County Line Recommendation

- Staff recommendation: implement modified Option 4 in two steps
 - 1) Immediately begin project scoping, environmental studies, and final design
 - 2) Return Fall 2018 with construction recommendation with known toll revenue impacts
- Staff recommendation: update the 2012 91 Traffic and Revenue Study

Option 4

5+1 General Purpose to Green River On Ramp



	Green River Rd On Ramp			Off Ramp		71 On
241	6	6	6		6	
241	5	5	5	5	5	5
91	4	4	4	4	4	4
91	3	3	3	3	3	3
91	2	2	2	2	2	2
91	1	1	1	1	1	1
	EL Ingress		EL Egress			
		EL 2		EL 2		EL 2
		EL 1		EL 1		EL 1



General Purpose Lanes Westbound Near the County Line Recommendation

Why option 4 modified?

- Improves GP Lane traffic: speed, travel time, volume
- Comparable benefits to other options but with less impacts
- Less impact to Express Lanes than other options

Implementation....

Step 1 cost: \$3.2 million schedule: 18 months

Step 2 Return Fall 2018 to RCTC Board with construction recommendation



Policy Considerations and Next Steps

- Corridor focus for improvements
- Work closely with Caltrans, OCTA, and CHP
- Motorist safety
- I-15 Express Lanes project: no impact
- Traffic & revenue study update
- Green River Rd ramp meter trial



Thank you