










I-680 Express Lane After Study - Evaluation Results Summary





Performance Measure	Evaluation Results	Time Period	Change from "Before" to "After"
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 Strong Positive
 Partially Positive
 Mix of Positive and Negative
 Partially Negative
 Strong Negative





TRAVEL TIMES














Express Lane		AM peak average	-0.5 minutes (-4%)
Express Lane		PM peak average	-0.2 minutes (-2%)
General purpose lanes		AM peak average	-2 minutes (-13%)
General purpose lanes		PM peak average	-0.2 minutes (-2%)

TRAVEL SPEEDS

Express Lane		AM peak average	+3 mph
Express Lane		PM peak average	+1 mph
General purpose lanes		AM peak average	+6 mph
General purpose lanes		PM peak average	+2 mph

THROUGHPUT

Vehicle throughput		AM peak period	+1% to +11%
Vehicle throughput		PM peak period	+1% to +38% at 3 north locations -13% at the southern location
Person throughput		AM peak period	-2% to +2%
Person throughput		PM peak period	+1% to +38% at 3 locations, -17% at 1 location

Performance Measure	Evaluation Results	Time Period	Change from "Before" to "After"
BOTTLENECKS AND QUEUES			
Number of bottlenecks		AM peak period	Existing two bottlenecks at the southern section remain new bottleneck added at SR 84
Length of queues		AM peak period	Max. queue reduced from 7.4 to 2.9 miles
VEHICLE OCCUPANCY			
HOV percent (all lanes)		AM peak period	-32%
HOV percent (all lanes)		PM peak period	-7%
LEVEL OF SERVICE			
Express Lane		AM and PM peak periods	Remains LOS A or B
General purpose lanes		AM peak period	4 segments in middle of corridor improve from LOS F, 1 in north and 1 in south become LOS F
General purpose lanes		PM peak period	increased density. Although LOS changed from B to C in many segments, all segments remain LOS C or better
TRANSIT RIDERSHIP			
Daily transit passengers on lines serving corridor		Daily	-6% (Lines reduced from 10 to 6)
SAFETY			
Collision rate		Annual	-50%
VIOLATIONS AND ENFORCEMENT			
Toll violations		AM peak period	20% of SOVs or 11% of all vehicles in the Express Lane
Illegal crossing of double white line		AM peak period	<1%
Illegal egress at Washington ingress		AM peak period	6%
Number of citations		Annual	205 in 2009, 478 in 2011 223 in 2012