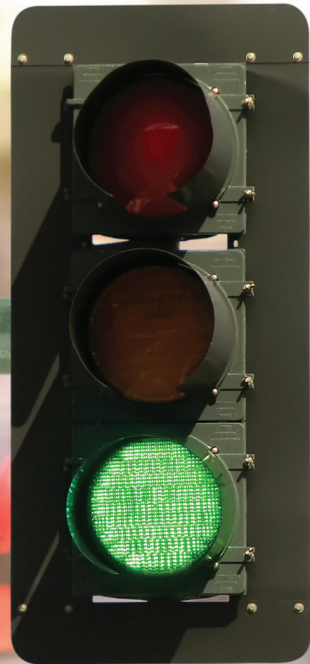


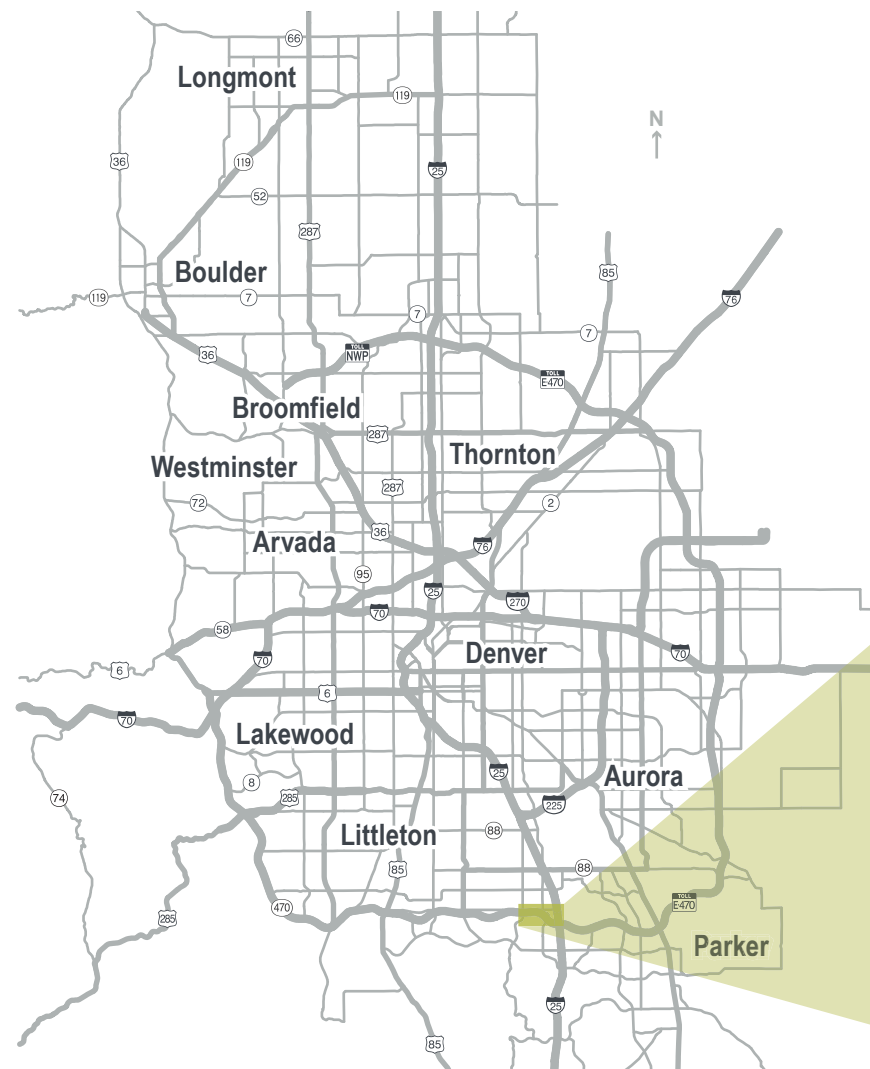
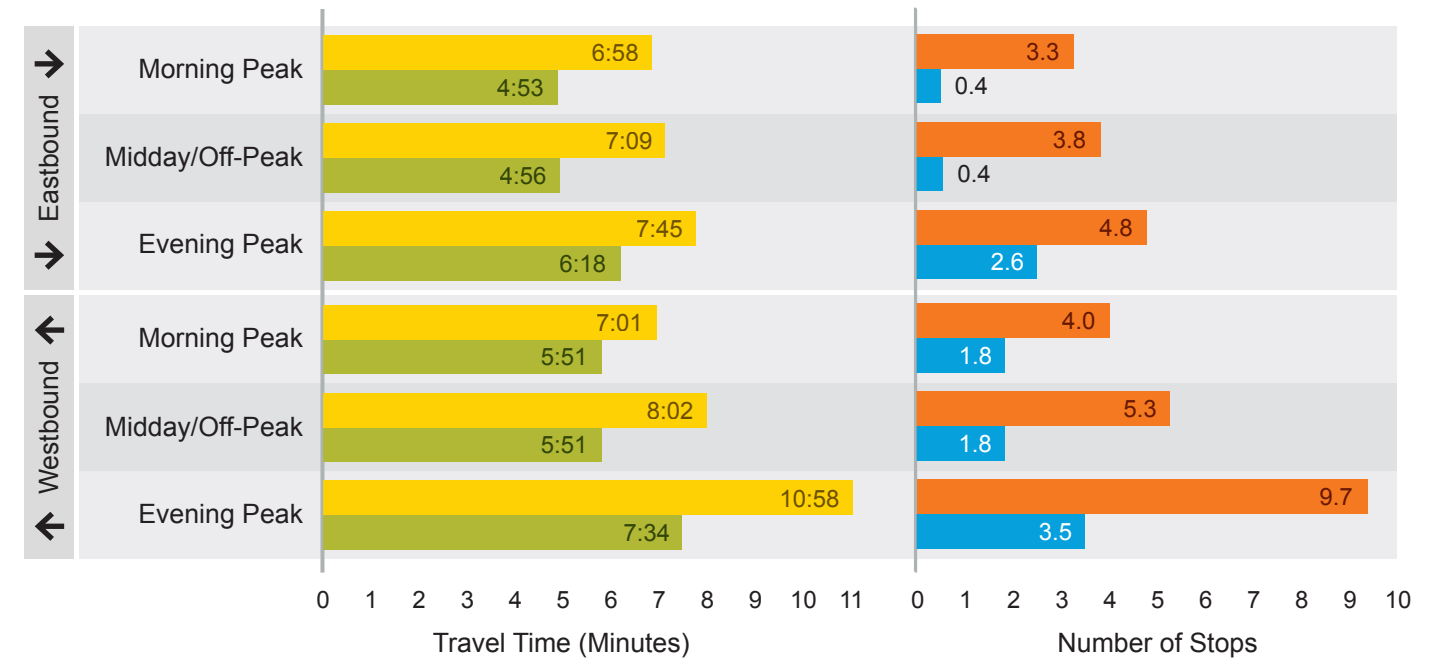
County Line Road: Holly Street to Inverness Parkway & South Valley Highway



Project Achievements

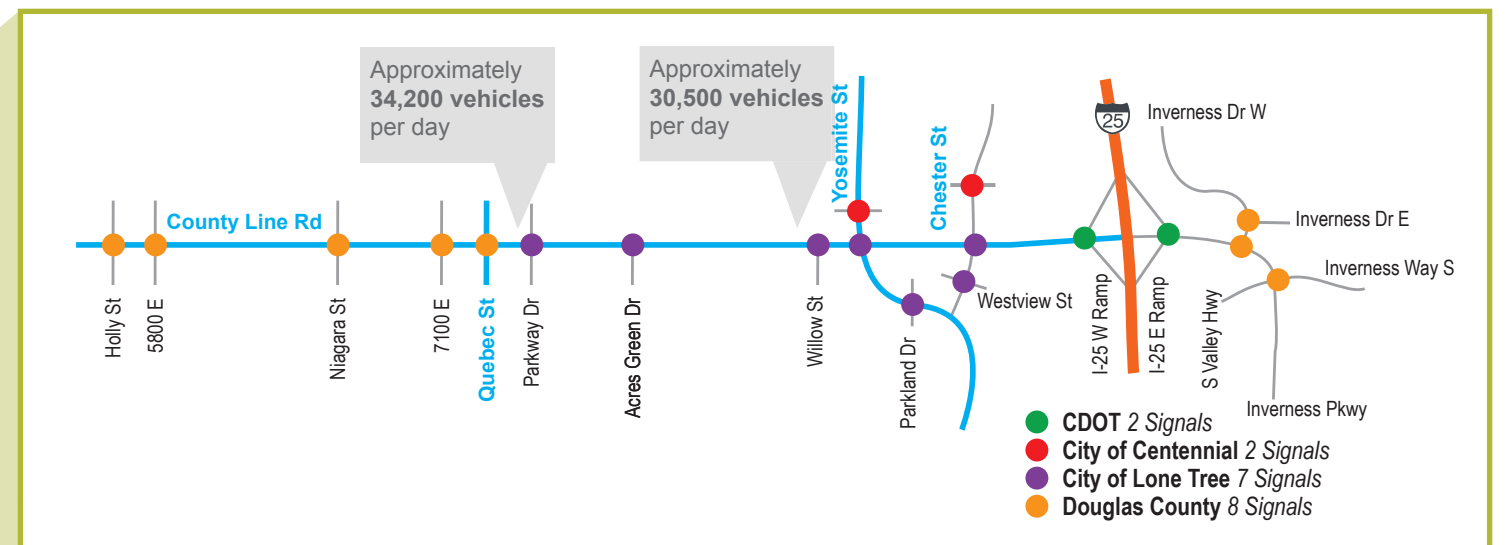
Performance Measures	Daily Reduction
Vehicle travel time	1,300 hours
Fuel consumption	1,000 gallons
Time and fuel costs	\$30,000 savings daily (\$7,500,000 annually)
Greenhouse gas emissions	18,700 pounds
Emissions of six EPA-regulated pollutants	210 pounds

Overall Improvements



Project Scope

County Line Road (3.1 miles)



Federal Funds for Douglas County and City of Lone Tree

DRCOG engineering staff developed the signal timing and coordination plans in partnership with the project stakeholders.

Traffic Signal Coordination

Traffic signal coordination allows traffic to travel along a street without stopping at every light. A major component of any coordinated signal-timing plan is properly-sized cycle length shared by each intersection along the corridor. The cycle length is the time required for one sequence of signal displays (green, yellow and red) around an intersection to be lit for each approach. DRCOG's engineers evaluate cycle lengths to strike a balance between intersection capacity and delay for all users. The cycle lengths vary by time of day to account for fluctuating numbers of vehicles, bicyclists and pedestrians.

Time of day	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
1 County Line Rd & Holly St	135-second cycle			120-second cycle						140-second cycle			
2 County Line Rd & 5800 E													
3 County Line Rd & Niagara St													
4 County Line Rd & 7100 E													
5 County Line Rd & Quebec St													
6 County Line Rd & Parkway Dr													
7 County Line Rd & Acres Green Dr													
8 County Line Rd & Willow St													
9 County Line Rd & Yosemite St													
10 County Line Rd & Chester St													
11 County Line Rd & I-25 West Ramp													
12 County Line Rd & I-25 East Ramp													
13 County Line Rd & Inverness Dr W													
14 Inverness Pkwy & S. Valley Hwy	FREE			80-second cycle									
15 Inverness Dr W & Inverness Dr E	135-second cycle			120-second cycle									
16 Yosemite St	FREE			60-second cycle						70-second cycle			
17 Chester St	FREE			FREE						FREE			
18 Yosemite St & Parkland Dr	90-second cycle			120-second cycle						70-second cycle			
19 Chester St & Westview St													

Douglas County
 City of Lone Tree
 City of Centennial
 CDOT

For more information about signal timing, see: bit.ly/SignalRed
 For more information about DRCOG's traffic operations program, see: bit.ly/TrafficOps



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SIGNAL TIMING PROJECT BRIEF

County Line Road: Holly Street to Inverness Parkway & South Valley Highway

The Denver Regional Council of Governments (DRCOG) leads multijurisdictional partnerships to achieve optimal signal timing and coordination on area roadways. Traffic signal timing adjustments provide the smoothest possible flow for cars, trucks and buses. At the same time, safety is enhanced for all users, including pedestrians and bicyclists. Signal timing optimization saves drivers time and money, minimizes greenhouse gas and pollutant emissions, and enhances air quality.

April 2017 - T17-01a