64th Avenue: Quaker Street to Ward Road

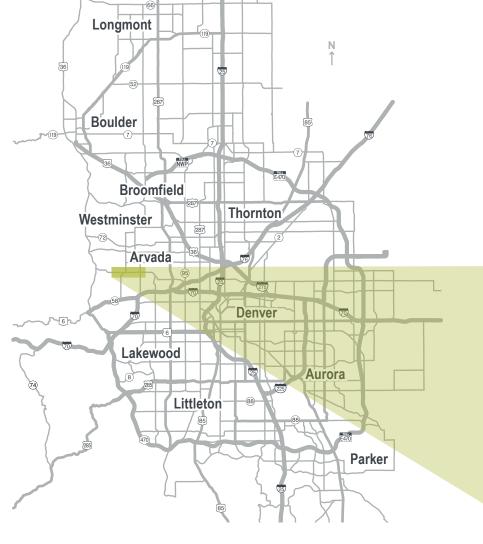


Federal Funds for Arvada

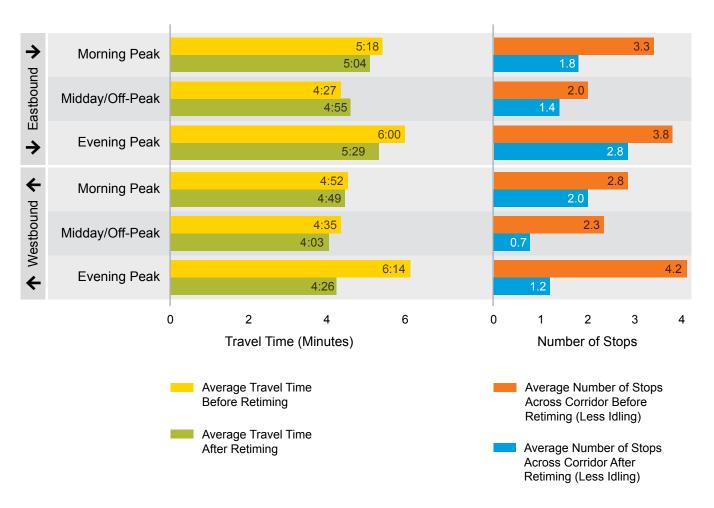
DRCOG engineering staff developed the signal timing and coordination plans in partnership with the project stakeholders

Project Achievements

Performance Measures	Daily Reduction					
Vehicle travel time	140 hours					
Fuel consumption	113 gallons					
S Time and fuel costs	\$3,350 savings daily (\$840,000 annual savings)					
Greenhouse gas emissions	2,151 pounds					
Emissions of six EPA-regulated pollutants	21 pounds					

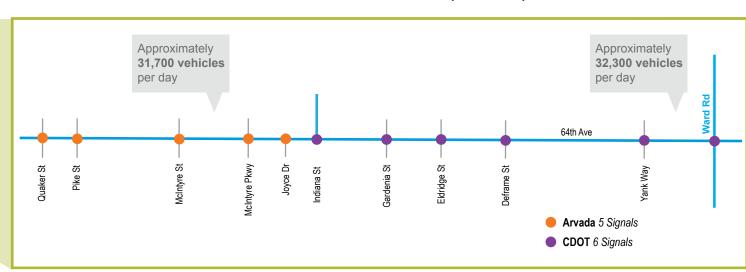


Overall Improvements



Project Scope

Quaker Street to Ward Road (2.4 miles)





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 64th Ave an	l Quaker St	100-second cycle												
2 64th Ave an	l Pike St													
3 64th Ave an	I McIntyre St													
4 64th Ave an	l McIntyre Pkwy													
5 64th Ave an	I Joyce Dr							100-second cycle						
6 64th Ave an	I Indiana St			90-second cycle										
7 64th Ave an	l Gardenia St													
8 64th Ave an	l Eldridge St													
9 64th Ave an	I Deframe St													
10 64th Ave an	I Yank Way	120-	second o	vele								120-500	and cycle	
11 64th Ave an	l Ward Rd	120-second cycle								120-second cycle				

CDOT City of Arvada

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

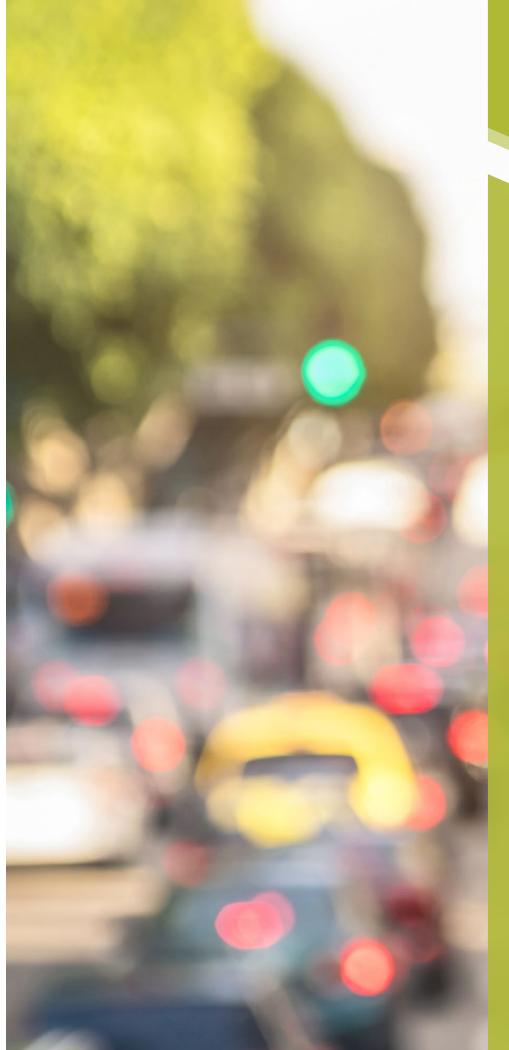


1290 Broadway, Main 303.4 Suite 100 Fax 303.4 Denver, Colorado 80203 drcog.org

Main 303.455.1000 Fax 303.480.6790 drcog.org









SIGNAL TIMING PROJECT BRIEF

64th Avenue: Quaker Street to Ward Road

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.

September 2016 - T16-13