South Boulder Road: Centaur Village Drive to Public Road



Federal Funds for Lafayette

DRCOG engineering staff developed the signal timing and coordination

Project Achievements

Performance Measures	Daily Reduction					
Vehicle travel time	142 hours					
Fuel consumption	74 gallons					
S Time and fuel costs	\$3,300 savings daily (\$830,000 annual annually)					
Greenhouse gas emissions	1,541 pounds					
Emissions of six EPA- regulated pollutants	17 pounds					

Overall Improvements





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	05:30	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:0	15:00	16:00	17:00	18:00	
1	South Boulder Rd & Centaur Village Dr															
2	South Boulder Rd & Angevine Way		100-seco	ond cycle		105-second cycle						100-second cycle				
3	South Boulder Rd & Minotaur Cir															
4	U.S. 287 & South Boulder Rd		150-seco	ond cycle								150-second cycle				
5	South Boulder Rd & Coal Creek Dr	100-second cycle									100-second cycle					
6	South Boulder Rd & Dixon Ave															
7	South Boulder Rd & Public Rd															

City of Lafayette

e CDOT

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

Suite 100

1290 Broadway,

Denver, Colorado 80203







Main 303.455.1000

Fax 303.480.6790

drcog.org





SIGNAL TIMING PROJECT BRIEF

South Boulder Road: Centaur Village Drive to Public 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 - T16-14b