



Denver CBD (2 Timing Projects; 510 and 325 Intersections)

Overview: Optimized signal timings in arterial and network applications for multiple times of day; over 1,500 intersections

Owner: 15+ Public Agencies

Completion: 1987—Present

Traffic Signal Operations and Timing

Project Description

Optimizing traffic signal timings often provides immediate benefit for the operating agency. Colorado re-timing projects have yielded noticeable improvements in travel times and travel speeds, and corresponding reductions in delay, number of stops, fuel consumption and emissions. These improvements can be easily documented with on-street studies before and after implementation. Centennial Engineering, Inc. (CEI) staff has provided signal timing services for cities across Colorado, the Colorado Department of Transportation (CDOT) and the Denver Regional Council of Governments (DRCOG). These projects demonstrate the firm's capability to complete such work quickly, cost-effectively and comprehensively; with proven, documented operational benefits. We have a proven track record on large, complicated timing projects.

CEI Chief Traffic Engineer Steven J. Sabinash, P.E., has managed the development of new timing plans at over 1,500 intersections. This work has given him direct exposure to the critical issues typically important in timing projects – namely, identifying existing traffic flow patterns; cycle length selection; strengths and limitations of industry-accepted timing software analysis packages; and translation of “paper” results to actual performance observed in the field. A list of timing projects

managed by Steve follows. In many cases, special event timings were developed to accommodate heavy shopping traffic, stadium events or other large-scale traffic generators, in addition to a number of time-of-day and day-of-week plans.

- Adams County, CO – Pecos Street (12 signals)
- Arlington, TX – Citywide (125)
- Aurora, CO – 2 Projects, Citywide (75); Night Timings (75)
- Boulder, CO – CBD and Table Mesa (45)
- Denver, CO – 5 projects, Central Denver (510); CBD (325); Arterials (210); LRT Timing (35); Cherry Creek Shopping Center (15)
- Lakewood, CO – Wadsworth (35)
- Louisville, CO – S. Boulder Road (10)
- Ogden, UT – Citywide (65)
- Provo, UT – Citywide (45)
- Thornton, CO – 3 projects, Civic Center (25); 120th Avenue (6); 84th Avenue (6)
- Westminster, CO – 2 projects, Westminster Center (25); 104th Avenue (10)
- Wheat Ridge, CO – 38th Avenue (10)



Cherry Creek Area Operations & Timing, Denver



LRT Operations & Timing, Denver CBD

SERVICES

Structural Engineering & Design
 Roadway Design
 Construction Engineering
 Traffic Engineering
 Intelligent Transportation Systems (ITS)
 Surveys & Right-of-Way
 Information Technology Systems

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