



The development and increasing popularity of the modern roundabout in North America is one of the most exciting recent innovations in the field of traffic engineering. In addition to the dramatic reduction in traffic accidents that roundabouts provide, their installation can generate substantial reduction in delays and associated air emissions, improve intersection capacity and pedestrian travel, and can be a key element in improving the visual quality of roadway corridors and town centers. Not only can properly designed roundabouts provide significant operational and environmental benefits, the growing knowledge and evidence regarding their superior safety performance has led many public jurisdictions to their use. Proper planning and engineering design as well as public involvement and communication of the roundabout option requires a detailed understanding of their operation, design, and implementation.

As with any design concept, there are correct and incorrect ways in which roundabouts can be designed. In addition, appropriate striping, signing, and lighting are key to the success of a roundabout. LSC staff has the experience and knowledge regarding roundabout design and operations necessary to ensure that each facility operates safely and efficiently.

Products and Services

- Planning and conceptual layout design
- Capacity and geometry analysis
- Horizontal geometric design
- Vertical geometric design
- Signing and striping
- Design peer review assistance
- Pedestrian and bikeway roundabout design
- Public presentations, seminars, and workshops
- Roundabout training assistance
- Construction quality

Representative Projects

- 88th/Rock Creek Parkway, Superior, Colorado
- Roxborough Marketplace, Douglas County, Colorado
- South Golden Road (4), Golden, Colorado
- Eby Creek Road/US 6 Corridor, Eagle, Colorado
- Promontory Circle (5), Greeley, Colorado
- Front Range Community College, Westminster, Colorado
- Liberty Village, Castle Rock, Colorado
- Rifle (3), Rifle, Colorado
- US 6/Sylvan Lake, Eagle, Colorado
- Harvest Junction, Longmont, Colorado
- Interstate 80/SR 89, Truckee, California (preliminary design)
- SR 224/Deer Valley Drive, Park City Utah (preliminary design)