

Appendix H: Project Cost Sources

LSC has contacted various sources to determine costs for various improvements including:

- City of Rifle
- State departments of transportation in Colorado, Utah, Arkansas, West Virginia, Texas, Michigan, and Arizona
- City of Colorado Springs
- Colorado-based developers

Road construction costs are extremely variable from project to project. New road construction has different expenses than upgrading rural roads or widening existing urban streets. An Internet search was conducted to supplement regional information. Costs per mile varied greatly including \$8.0 million/mile for rural Interstate construction in Michigan, \$25 million/mile in West Virginia, and \$44.6 million/mile for a freeway project in Texas. One of the projects closest to Rifle was the widening of 3.5 miles of Highway 82. That individual project cost \$25 million dollars or \$7.1 million/mile. For the purpose of budgeting, road construction has been broken down into upgrading, widening, and new construction. Road construction projects have been increased when the proposed alignment is expected to encounter increased costs due to significant earthwork. This will typically occur when alignments traverse mesas, bluffs, or other difficult terrain.

The cost of constructing a two-lane roundabout is estimated at \$850,000 including utilities. This is based on historic costs of roundabouts in Vail, Avon, and Colorado Springs.

Traffic signals are assumed to be designed with mast arms and will cost approximately \$250,000 per location. This is average cost according to contractors currently installing this signal design.

Structural work for projects 14, 18, and 20 was estimated based on CDOT unit costs and input from the regional CDOT engineer.