

6.0 PROJECT COST ESTIMATES

Construction quantities were measured from CADD files based on the Alternative 1 Draft Concept Plans dated January 2008. The concept plans show the ultimate improvements planned for the parkway. The costs were calculated in 1-mile segments generally measured from mid-mile to mid-mile. For example, the 83rd Avenue segment includes quantities from the 87th Avenue mid-section line to 79th Avenue mid-section line and includes the 87th Avenue to 83rd Avenue connector street (Griswold Rd). These costs are summarized by segment in Table 6-1 and Appendix E.

Unit costs were determined from the most recent MCDOT and ADOT bid results available. Utility unit costs were derived from the utility companies affected and from local light rail bid construction results. Irrigation relocation, drainage, and utility costs are listed in Appendix E. Prior rights determination for utilities has not been established. It is assumed utilities located in the existing roadway right-of-way are there by permit and the cost to relocate these utilities would be the responsibility of the utility company. The cost of relocating all municipal utilities, the 16-inch EPNG, and utilities located outside the existing right-of-way are included in the Northern Parkway cost estimate.

The total construction cost estimate for Alternative 1 is \$504.6 million (see Table 6-1). Right-of-way costs total \$95.9 million while design costs are \$40.4 million for a total project cost of \$640.9 million. The right-of-way costs do not account for right-of-way that may be dedicated or additional area required to acquire entire parcels. A total project cost estimate for Alternative 2 is \$681.4 million (see Appendix F) while the Southern Alignment project cost is estimated to be \$790.0 million (see Appendix G).

The cost estimate includes 25 percent added for unidentified items to cover unknowns in the Draft Concept Plans. Construction administration and contingencies is estimated to be 14 percent and engineering and design is estimated to be 8 percent of the construction cost.

Table 6-1 Alternative 1 Estimated Cost (2007 Dollars)
01/25/08

Segment	ROW	Design	Construction	Total
Sarival Avenue	\$5,406,000	\$1,438,648	\$17,983,101	\$24,827,749
Reems Road	\$10,295,000	\$1,639,599	\$20,494,982	\$32,429,581
Bullard Avenue	\$10,442,000	\$1,171,276	\$14,640,947	\$26,254,222
BNSF Webb Spur Crossing	\$0	\$276,365	\$3,454,558	\$3,730,923
Litchfield Road	\$3,589,500	\$2,152,823	\$26,910,292	\$32,652,616
Dysart Road	\$8,940,000	\$2,721,454	\$34,018,170	\$45,679,624
El Mirage Alternative Access Streets	\$2,110,000	\$225,715	\$2,821,432	\$5,157,146
El Mirage Road	\$7,555,000	\$2,618,357	\$32,729,457	\$42,902,814
Agua Fria River Bridge	\$0	\$1,020,797	\$12,759,963	\$13,780,760
115 th Avenue	\$4,095,000	\$1,257,893	\$15,723,665	\$21,076,558
107 th Avenue	\$4,647,000	\$1,125,492	\$14,068,651	\$19,841,143
Loop 101 – Northern Ave (107 th to Loop 101)	\$9,005,500	\$2,020,708	\$25,258,847	\$36,285,055
Loop 101 – Northern Ave (Loop 101 to 87 th)	\$9,393,500	\$1,646,210	\$20,577,621	\$31,617,331
Loop 101 – Northern Parkway Bypass	\$0	\$10,351,415	\$129,392,687	\$139,744,102
83 rd Avenue	\$4,092,500	\$2,979,663	\$37,245,781	\$44,317,944
75 th Avenue	\$8,430,000	\$3,104,615	\$38,807,690	\$50,342,305
Grand Avenue	\$5,878,000	\$4,484,542	\$56,056,769	\$66,419,310
Total Costs	\$95,912,000	\$40,367,566	\$504,594,579	\$640874145