

APPENDIX F
NORTHERN PARKWAY ALTERNATIVE 2
ESTIMATED PROJECT COST

**Northern Parkway - Loop 303 to Grand Avenue
Alternative 2**

Project Estimated Cost (2007 Dollars)

1/25/2008

Segment	ROW	Design	Construction	Total
Sarival Avenue	\$5,406,000	\$1,424,667	\$17,808,334	\$24,639,000
Reems Road	\$10,295,000	\$1,598,091	\$19,976,135	\$31,869,226
Bullard Avenue	\$10,442,000	\$1,122,562	\$14,032,024	\$25,596,586
BNSF Webb Spur Crossing	\$0	\$276,365	\$3,454,558	\$3,730,923
Litchfield Road	\$3,589,500	\$2,091,713	\$26,146,408	\$31,827,621
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
115th Avenue	\$5,610,000	\$3,700,203	\$46,252,544	\$55,562,747
107th Avenue	\$3,432,000	\$1,563,261	\$19,540,769	\$24,536,030
Loop 101 - Northern Parkway Bypass	\$0	\$10,391,618	\$129,895,229	\$140,286,847
Loop 101 - Northern Ave (107th to Loop 101)	\$9,229,500	\$2,004,091	\$25,051,133	\$36,284,724
Loop 101 - Northern Ave (Loop 101 to 87th)	\$9,815,000	\$1,839,450	\$22,993,128	\$34,647,578
83rd Avenue	\$5,075,000	\$3,001,846	\$37,523,078	\$45,599,925
75th Avenue	\$9,402,000	\$3,107,660	\$38,845,753	\$51,355,413
Grand Avenue	\$6,226,000	\$4,568,000	\$57,100,001	\$67,894,001
Total Costs	\$97,127,000	\$43,275,849	\$540,948,116	\$681,350,965

Project Cost Estimate
115th Ave Segment (TI Added)(Agua Fria River Bridge East Abut to 111th Ave)
Alternative 2
1/25/2008

Description	Unit	Quantity	Unit Cost	Total
Clearing and Grubbing	LS	1	10,000.00	\$10,000
Subgrade Preparation	SY	124,885	2.00	\$249,770
Remove Existing Pavement	SY	19,072	2.00	\$38,144
Remove Existing Curb & Gutter	LF	0	7.00	\$0
Remove Existing Barrier	LF	2,700	12.00	\$32,400
New Bridge Structure	SF	31,050	120.00	\$3,726,000
Embankment (Borrow)	CY	648,265	9.00	\$5,834,385
Excavation	CY	988	5.00	\$4,940
Mainline & Ramp (AC)	TONS	17,390	72.00	\$1,252,080
Mainline & Ramp (PCCP)	SY	36,927	45.00	\$1,661,715
Mainline & Ramp (AB)	CY	15,867	30.00	\$476,010
Concrete Curb & Gutter	LF	8,242	15.00	\$123,630
Concrete Median Curb	LF	2,661	18.00	\$47,898
Sidewalk	SF	43,165	4.50	\$194,243
ROW Fence	LF	2,211	10.00	\$22,110
Retaining Wall	SF	176,000	55.00	\$9,680,000
Noise Wall (B1)	LS	1	223,300.00	\$223,300
Concrete Half Barrier	LF	13,281	45.00	\$597,645
Concrete Half Barrier Transition	EA	6	3,000.00	\$18,000
Concrete Median Barrier	LF	4,096	65.00	\$266,240
Attenuators	EA	6	20,000.00	\$120,000
Pavement Marking & Signing	LS	1	20,000.00	\$20,000
Roadway Lighting	LS	1	250,000.00	\$250,000
Traffic Signals	LS	1	200,000.00	\$200,000
Irrigation Relocation	LS	1	0.00	\$0
Utility Relocation	LS	1	1,186,585.00	\$1,186,585
Drainage	LS	1	517,870.00	\$517,870
Landscaping	SF	494,426	2.00	\$988,852

Total **\$27,741,817**

Traffic Control	7.0%	\$1,941,927
Mobilization	5.0%	\$1,387,091
Misc. Items (Survey, QC)	5.0%	\$1,387,091
Total		\$32,457,925

Unidentified Items	25.0%	\$8,114,481
Total		\$40,572,407

Construction Administration / Contingencies	14.0%	\$5,680,137
Total Construction Cost		\$46,252,544

Engineering and Design	8%	\$3,700,203
Total Project Cost		\$49,952,747

	Acre	\$/acre	
ROW	22.44	\$250,000	\$5,610,000
	Each	\$/ea	
Resident Relocations	0	\$300,000	\$0
Business Relocations	0	\$500,000	\$0
Total ROW Costs			\$5,610,000

Total Project Cost Including ROW **\$55,562,747**

Project Cost Estimate
107th Ave (111th Ave to 107th Ave)
(Includes Royal Palm Rd - 111th Ave to 111th Ln, Royal Palm Rd - 108th Dr to 107th Ave, Augusta Ave)
and Orangewood Ave.)

Alternative 2
1/25/2008

Description	Unit	Quantity	Unit Cost	Total
Clearing and Grubbing	LS	1	10,000.00	\$10,000
Subgrade Preparation	SY	58,380	2.00	\$116,760
Remove Existing Pavement	SY	37,624	2.00	\$75,248
Remove Existing Curb & Gutter	LF	2,400	7.00	\$16,800
New Bridge Structure	SF	11,220	120.00	\$1,346,400
Embankment (Borrow)	CY	147,326	9.00	\$1,325,934
Excavation	CY	7,708	5.00	\$38,540
Mainline & Ramp (AC)	TONS	17,898	72.00	\$1,288,656
Arterial (AC)	TONS	1,752	72.00	\$126,144
Connector Rd (AC)	TONS	1,046	72.00	\$75,312
Mainline, Ramp, and Arterial (AB)	CY	14,454	30.00	\$433,620
Connector Rd (AB)	CY	1,061	30.00	\$31,830
Concrete Curb & Gutter	LF	12,201	15.00	\$183,015
Concrete Median Curb	LF	4,783	18.00	\$86,094
Sidewalk	SF	72,792	4.50	\$327,564
ROW Fence	LF	0	10.00	\$0
Retaining Wall	SF	35,360	55.00	\$1,944,800
Noise Wall (B2-B9)	LS	1	1,718,500.00	\$1,718,500
Concrete Half Barrier	LF	1,100	45.00	\$49,500
Concrete Half Barrier Transition	EA	0	3,000.00	\$0
Concrete Median Barrier	LF	0	65.00	\$0
Attenuators	EA	4	20,000.00	\$80,000
Pavement Marking & Signing	LS	1	20,000.00	\$20,000
Roadway Lighting	LS	1	125,000.00	\$125,000
Traffic Signals	LS	1	200,000.00	\$200,000
Irrigation Relocation	LS	1	0.00	\$0
Utility Relocation	LS	1	1,373,545.00	\$1,373,545
Drainage	LS	1	412,490.00	\$412,490
Landscaping	LF	104,869	3.00	\$314,607

Total **\$11,720,359**

Traffic Control	7.0%	\$820,425
Mobilization	5.0%	\$586,018
Misc. Items (Survey, QC)	5.0%	\$586,018
Total		\$13,712,820

Unidentified Items	25.0%	\$3,428,205
Total		\$17,141,025

Construction Administration / Contingencies	14.0%	\$2,399,744
Total Construction Cost		\$19,540,769

Engineering and Design	8%	\$1,563,261
Total Project Cost		\$21,104,030

ROW	Acre	\$/acre	
	7.44	\$300,000	\$2,232,000
Resident Relocations	Each	\$/ea	
	4	\$300,000	\$1,200,000
Business Relocations		\$500,000	\$0
Total ROW Costs			\$3,432,000

Total Project Cost Including ROW **\$24,536,030**