

CONCEPTUAL COST ESTIMATE DATA

Appendix A

U-MED TRANSIT AND PEDESTRIAN IMPROVEMENTS
 MOA Project No. 04-42
 Conceptual Cost Estimate

ITEM NO.	WORK DESCRIPTION	UNIT	FIGURE																		EST. QUANTITY	CONT. FACTOR	ROUND	TOTAL QUANT.	UNIT PRICE	TOTAL COST
			Figure 2_West Transit Stop	Figure 3_South Transit Stop	Figure 4_North Transit Stop	Figure 4_South Transit Stop	Figure 4_Crosswalk	Figure 5_North Curb Ramps	Figure 5_South Curb Ramps	Figure 5_South Transit Stop	Figure 5_Crosswalks	Figure 6_North Transit Stop	Figure 6e North Sidewalk	Figure 6e South Sidewalk	Figure 7_North Demo Existing Transit Stop	Figure 8_North Transit Stop	Figure 8_South Transit Stop	Figure 8_Crosswalks	Figure 8_Southeast Trail (includes curb ramp)	Figure 9_North Sidewalk						
Construction																										
1	Remove Existing Pavement	SY	350.1	53.4	434.7	62.8	115.1	37.0	0.0	138.5	587.7	122.4	351.0	0.0	222.3	49.8	98.6	488.0	121.7	0.0	3,232.9	1.1	4.0	3,556.2	\$10	\$35,562
2	Remove Existing Concrete Sidewalk	SY	0.0	136.9	0.0	166.7	0.0	0.0	25.7	94.8	0.0	0.0	0.0	310.5	0.0	211.0	392.4	0.0	0.0	0.0	1,337.9	1.1	4.0	1,471.7	\$30	\$44,151
3	Remove Existing Curb and Gutter	LF	220.0	240.0	206.0	313.0	31.0	56.0	43.0	164.0	124.0	148.0	0.0	0.0	248.0	224.0	441.0	56.0	62.0	0.0	2,576.0	1.1	4.0	2,833.6	\$16	\$45,338
4	Unusable Excavation	CY	192.1	170.5	275.3	264.6	192.2	60.6	20.7	140.2	388.9	445.6	466.3	454.6	0.0	268.1	601.9	297.6	169.6	732.2	5,141.2	1.2	4.0	6,169.4	\$35	\$215,929
5	P.C.C. Sidewalk (4" Thick)	SY	170.2	130.0	40.0	114.4	0.0	48.2	0.0	37.2	0.0	0.0	577.4	562.8	0.0	0.0	0.0	0.0	95.1	808.9	2,584.3	1.1	4.0	2,842.7	\$65	\$184,778
6	P.C.C. Colored Sidewalk (6" Thick)	SY	67.6	81.1	282.6	180.0	153.5	0.0	0.0	136.4	353.5	187.9	0.0	0.0	0.0	331.9	518.4	321.3	0.0	0.0	2,614.4	1.1	4.0	2,875.8	\$170	\$488,891
7	P.C.C. White Sidewalk (6" Thick)	SY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2	0.0	0.0	186.2	1.1	4.0	204.8	\$800	\$163,876
8	P.C.C. Curb and Gutter (All Types)	LF	213.0	240.0	204.0	313.0	31.0	56.0	43.0	162.0	62.0	148.0	0.0	0.0	250.0	224.0	437.0	185.0	62.0	0.0	2,630.0	1.1	4.0	2,893.0	\$50	\$144,650
9	P.C.C. Curb Ramp (6" Thick)	SY	0.0	0.0	18.2	33.1	0.0	26.9	25.7	0.0	0.0	26.9	0.0	0.0	0.0	0.0	24.9	47.1	23.2	0.0	226.0	1.1	4.0	248.6	\$130	\$32,315
10	Detectable Warning	EA	0.0	0.0	2.0	3.0	0.0	4.0	4.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	3.0	6.0	2.0	0.0	26.0	1.0	4.0	26.0	\$1,000	\$26,000
11	Type II-A Classified Fill and Backfill	Ton	374.5	332.6	536.9	516.0	241.7	118.3	40.4	273.4	758.4	869.0	909.4	886.5	0.0	522.8	855.6	580.3	186.3	1,391.6	9,393.7	1.2	4.0	11,272.4	\$35	\$394,535
12	A.C. Pavement (Class E)	Ton	14.2	4.5	3.8	5.3	0.9	1.4	0.0	3.0	12.8	2.8	0.0	0.0	4.7	4.2	20.4	9.2	0.0	6.3	93.5	1.1	4.0	102.8	\$350	\$35,985
13	A.C. Pavement (Class D)	Ton	18.9	6.0	5.1	7.1	1.2	1.8	0.0	4.1	17.0	3.7	0.0	0.0	6.3	5.6	27.2	12.2	0.0	6.3	122.5	1.1	4.0	134.8	\$365	\$49,193
14	Leveling Course	Ton	18.9	6.0	5.1	7.1	1.2	1.8	0.0	4.1	17.0	3.7	0.0	0.0	6.3	5.6	27.2	12.2	0.0	0.0	116.2	1.1	4.0	127.8	\$55	\$7,032
15	Traffic Markings	LF	0.0	240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	240.0	1.1	4.0	264.0	\$10	\$2,640
16	Topsoil, 4"	MSF	0.2	0.3	1.2	0.1	0.3	0.0	0.0	0.8	0.0	2.1	4.7	2.5	1.7	0.6	0.8	0.0	0.6	21.9	37.7	1.2	4.0	45.2	\$1,700	\$76,906
17	Seeding (Schedule A)	MSF	0.2	0.3	1.2	0.1	0.3	0.0	0.0	0.8	0.0	2.1	4.7	2.5	1.7	0.6	0.8	0.0	0.6	21.9	37.7	1.2	4.0	45.2	\$1,750	\$79,168
18	Clearing and Grubbing	MSF	0.2	0.3	1.2	0.1	0.3	0.0	0.0	0.8	0.0	2.1	4.7	2.5	1.7	0.6	0.8	0.0	0.6	21.9	37.7	1.2	4.0	45.2	\$250	\$11,310
19	Retaining Wall	LF	15.0	15.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0	0.0	50.0	0.0	360.0	1.1	4.0	396.0	\$550	\$217,800
20	Construction Survey Measurement	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	1.0	\$50,000	\$50,000
21	Traffic Maintenance	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	1.0	\$100,000	\$100,000
22	Landscaping	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	1.0	\$100,000	\$100,000
23	Lighted Pedestrian Crosswalk	EA	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	0.0	-	-	1.0	-	-	1.0	\$70,000	\$70,000
24	Demo Existing Transit Stop	EA	1.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.5	1.0	2.5	0.0	0.0	0.0	8.0	1.0	4.0	8.0	\$6,000	\$48,000
25	Pedestrian Crossing Sign	EA	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	8.0	1.0	0.0	8.0	\$400	\$3,200
26	Bus Stop Sign	EA	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	9.0	1.0	0.0	9.0	\$1,000	\$9,000
27	Trash Receptacle	EA	1.0	1.0	2.0	2.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	2.0	4.0	0.0	0.0	0.0	16.0	1.0	0.0	16.0	\$750	\$12,000
28	Bench	EA	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	6.0	0.0	0.0	0.0	13.0	1.0	0.0	13.0	\$1,500	\$19,500
29	Shelter	EA	0.0	0.0	2.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	9.0	1.0	0.0	9.0	\$12,500	\$112,500
30	Awning	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$250,000	\$250,000
31	Pedestrian Light	EA	3.0	2.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	12.0	33.0	1.0	0.0	33.0	\$7,500	\$247,500
32	Bike Rack	EA	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	5.0	1.0	0.0	5.0	\$550	\$2,750
33	Lighted Bollards	EA	0.0	8.0	7.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	29.0	1.0	0.0	29.0	\$3,000	\$87,000
Construction																										\$3,367,508
Utility Relocation																										
34	Remove and Replace Street Light Pole	EA	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	4.0	0.0	1.0	3.0	0.0	0.0	0.0	16.0	1.0	0.0	16.0	\$10,000	\$160,000
35	Remove and Relocate Pedestrian Light Pole	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$4,000	\$4,000
36	Adjust Catch Basin to Finish Grade	EA	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.0	0.0	4.0	\$550	\$2,200
37	Remove and Relocate Catch Basin	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	2.0	1.0	0.0	2.0	\$6,000	\$12,000
38	Adjust Water Valve	EA	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$500	\$500
39	Remove and Relocate Fire Hydrant	EA	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$7,500	\$7,500
40	Move/Lower Gas Line	LF	0.0	31.0	0.0	0.0	0.0	0.0	0.0	88.0	0.0	0.0	0.0	0.0	0.0	0.0	182.0	0.0	0.0	0.0	301.0	1.0	0.0	301.0	\$60	\$18,060
41	Move/Lower UG Traffic Line	LF	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	1.0	0.0	31.0	\$60	\$1,860
42	Move/Lower UG Electric Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.0	0.0	30.0	0.0	363.0	1.0	0.0	363.0	\$90	\$32,670
43	Move/Lower UG Telephone Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.0	0.0	16.0	0.0	341.0	1.0	0.0	341.0	\$60	\$20,460
44	Move/Lower UG TV Cable Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$60	\$0
45	Move/Lower UG Fiber Optic Line	LF	0.0	31.0	0.0	0.0	0.0	0.0	0.0	160.0	0.0	84.0	0.0	0.0	0.0	0.0	500.0	0.0	30.0	0.0	805.0	1.0	0.0	805.0	\$145	\$116,725
46	Remove and Relocate Telephone Pedestal	EA	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$5,000	\$5,000
Utility Relocation																										\$380,975
ROW Acquisition																										
46	Public Use Easement	SF	99.0	1,405.0	2,481.8	2,623.2	0.0	1,523.8	0.0	1,529.1	0.0	3,547.4	5,516.0	734.9	0.0	5,246.7	6,871.6	0.0	1,753.5	17,128.5	33,331.9	1.0	0.0	33,332.0	\$9	\$295,575
ROW Acquisition																										\$295,575

Project Subtotal \$4,044,058
Construction Contingency (25%) \$1,011,015

Project Total \$5,055,073

U-MED TRANSIT AND PEDESTRIAN IMPROVEMENTS
 MOA Project No. 04-42
 NOT RECOMMENDED ALTERNATIVES
 Conceptual Cost Estimate

ITEM NO.	WORK DESCRIPTION	UNIT								EST. QUANTITY	CONT. FACTOR	ROUND	TOTAL QUANT.	UNIT PRICE	TOTAL COST
			Figure 6_South Transit Stop	Figure 6_Crosswalk	Figure 6b	Figure 10_Southwest Transit Stop	Figure 10_Southeast Transit Stop	Figure 10_Northeast Transit Stop	Figure 10_Crosswalks						
Construction															
1	Remove Existing Pavement	SY	35.1	189.6	0.0	124.4	376.1	191.0	373.3	1,289.6	1.1	4.0	1,418.5	\$10	\$14,185
2	Remove Existing Concrete Sidewalk	SY	79.6	0.0	0.0	119.7	17.7	0.0	0.0	217.0	1.1	4.0	238.7	\$30	\$7,162
3	Remove Existing Curb and Gutter	LF	158.0	70.0	0.0	287.0	241.0	168.0	19.0	943.0	1.1	4.0	1,037.3	\$16	\$16,597
4	Unusable Excavation	CY	239.4	136.9	973.9	201.1	233.8	277.0	226.2	2,288.3	1.2	4.0	2,745.9	\$35	\$96,107
5	P.C.C. Sidewalk (4" Thick)	SY	0.0	0.0	0.0	0.0	0.0	210.0	0.0	210.0	1.1	4.0	231.0	\$65	\$15,018
6	P.C.C. Colored Sidewalk (6" Thick)	SY	296.4	136.9	0.0	233.2	278.6	105.6	280.0	1,330.6	1.1	4.0	1,463.7	\$170	\$248,830
7	P.C.C. White Sidewalk (6" Thick)	SY	0.0	32.7	0.0	0.0	0.0	0.0	0.0	32.7	1.1	4.0	35.9	\$800	\$28,747
8	P.C.C. Curb and Gutter (All Types)	LF	158.0	112.0	0.0	272.0	239.0	168.0	45.0	994.0	1.1	4.0	1,093.4	\$50	\$54,670
9	P.C.C. Curb Ramp (6" Thick)	SY	0.0	0.0	0.0	15.8	10.8	27.3	0.0	54.0	1.1	4.0	59.3	\$130	\$7,715
10	Detectable Warning	EA	0.0	0.0	0.0	2.0	1.0	2.0	0.0	5.0	1.0	4.0	5.0	\$1,000	\$5,000
11	Type II-A Classified Fill and Backfill	Ton	466.9	267.1	0.0	392.2	455.8	540.1	441.0	2,563.0	1.2	4.0	3,075.6	\$35	\$107,646
12	A.C. Pavement (Class E)	Ton	3.0	1.7	0.0	7.7	7.2	3.2	14.1	36.7	1.1	4.0	40.4	\$350	\$14,148
13	A.C. Pavement (Class D)	Ton	4.0	2.2	0.0	10.2	9.7	4.2	18.8	49.0	1.1	4.0	53.9	\$365	\$19,673
14	Leveling Course	Ton	4.0	2.2	0.0	10.2	9.7	4.2	18.8	49.0	1.1	4.0	53.9	\$55	\$2,964
15	Traffic Markings	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	0.0	\$10	\$0
16	Topsoil, 4"	MSF	0.7	0.0	13.1	0.6	0.0	0.9	0.0	15.3	1.2	4.0	18.4	\$1,700	\$31,252
17	Seeding (Schedule A)	MSF	0.7	0.0	13.1	0.6	0.0	0.9	0.0	15.3	1.2	4.0	18.4	\$1,750	\$32,171
18	Clearing and Grubbing	MSF	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.4	1.2	4.0	0.4	\$250	\$106
19	Retaining Wall	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	0.0	\$550	\$0
20	Construction Survey Measurement	LS	-	-	-	-	-	-	-	1.0	-	-	1.0	\$50,000	\$50,000
21	Traffic Maintenance	LS	-	-	-	-	-	-	-	1.0	-	-	1.0	\$100,000	\$100,000
22	Landscaping	LS	-	-	-	-	-	-	-	1.0	-	-	1.0	\$100,000	\$100,000
23	Lighted Pedestrian Crosswalk	EA	-	1.0	-	-	-	-	-	1.0	-	-	1.0	\$70,000	\$70,000
24	Demo Existing Transit Stop	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0	\$6,000	\$0
25	Pedestrian Crossing Sign	EA	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	2.0	\$400	\$800
26	Bus Stop Sign	EA	1.0	0.0	0.0	1.0	1.0	1.0	0.0	4.0	1.0	0.0	4.0	\$1,000	\$4,000
27	Trash Receptacle	EA	2.0	0.0	0.0	1.0	2.0	1.0	0.0	6.0	1.0	0.0	6.0	\$750	\$4,500
28	Bench	EA	1.0	0.0	0.0	1.0	2.0	1.0	0.0	5.0	1.0	0.0	5.0	\$1,500	\$7,500
29	Shelter	EA	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$12,500	\$12,500
30	Awning	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				\$250,000	\$0
31	Pedestrian Light	EA	3.0	0.0	0.0	2.0	3.0	2.0	0.0	10.0	1.0	0.0	10.0	\$7,500	\$75,000
32	Bike Rack	EA	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$550	\$550
33	Lighted Bollards	EA	0.0	0.0	0.0	0.0	5.0	0.0	0.0	5.0	1.0	0.0	5.0	\$3,000	\$15,000
Construction															\$1,141,842
Utility Relocation															
33	Remove and Replace Street Light Pole	EA	1.0	0.0	0.0	1.0	1.0	0.0	0.0	3.0	1.0	0.0	3.0	\$10,000	\$30,000
34	Remove and Relocate Pedestrian Light Pole	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$4,000	\$0
35	Adjust Catch Basin to Finish Grade	EA	0.0	1.0	1.0	0.0	1.0	0.0	0.0	3.0	1.0	0.0	3.0	\$550	\$1,650
36	Remove and Relocate Catch Basin	EA	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	\$6,000	\$6,000
37	Adjust Water Valve	EA	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	\$500	\$500
38	Remove and Relocate Fire Hydrant	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$7,500	\$0
39	Move/Lower Gas Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$60	\$0
40	Move/Lower UG Traffic Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$60	\$0
41	Move/Lower UG Electric Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$90	\$0
42	Move/Lower UG Telephone Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$60	\$0
43	Move/Lower UG TV Cable Line	LF	0.0	0.0	0.0	0.0	0.0	146.0	0.0	146.0	1.0	0.0	146.0	\$60	\$8,760
44	Move/Lower UG Fiber Optic Line	LF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$145	\$0
45	Remove and Relocate Telephone Pedestal	EA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	\$5,000	\$0
Utility Relocation															\$46,910
ROW Acquisition															
46	Public Use Easement	SF	566.5	0.0	0.0	467.3	0.0	1,894.0	0.0	2,927.9	1.0	0.0	2,928.0	\$9	\$25,964
ROW Acquisition															\$25,964

Project Subtotal \$1,214,716
Construction Contingency (25%) \$303,679

Project Total \$1,518,395