APPENDIX C:DETAILED COST ESTIMATE SPREADSHEETS

Midtown in Motion
College Avenue Transportation Study

Midtown in Motion

College Avenue Transportation Study

Conceptual Cost Estimate - Compete Roadway Reconstruction

August 28, 2014

				South District		Center District		Neighborhood District		Upper District			
				Harmony to Monroe		Monroe to Princeton		Princeton to Rutgers		Rutgers to Prospect			
				5,170 LF w/out Horsetooth Int.		4,350 LF w/out Drake Int.		2,325 LF		2,465 LF			
Item	**Description**	**Unit**	**Unit Price**	**Estimated Quantities**	**Estimated Cost**	**Estimated Quantities**	**Estimated Cost**	**Estimated Quantities**	**Estimated Cost**	**Estimated Quantities**	**Estimated Cost**	**Estimated Total Quantities**	**Total Cost**
1	Full Depth Asphalt Pavement - College Ave. Travel Lanes	SY	$ 71.50	56,489	$ 4,038,971	43,328	$ 3,097,952	24,319	$ 1,738,824	20,906	$ 1,494,803	145,043	**$ 10,370,551**
2	Full Depth Asphalt Pavement - Ex Frontage Rd with Parking	SY	$ 44.00		$ -	10,158	$ 446,932	5,382	$ 236,818		$ -	15,540	**$ 683,750**
3	Curb & Gutter (Outside, Median & Frontage Rd)	LF	$ 25.00	20,680	$ 517,000	34,800	$ 870,000	13,950	$ 348,750	9,860	$ 246,500	79,290	**$ 1,982,250**
4	Multi-Use Path (assume 12' wide - W & E sides)	SY	$ 45.00	13,787	$ 620,400	11,600	$ 522,000	6,200	$ 279,000	6,573	$ 295,800	38,160	**$ 1,717,200**
5	Median Area	SY	$ 90.00	4,892	$ 440,260	4,009	$ 360,840	1,608	$ 144,720	1,314	$ 118,246	11,823	**$ 1,064,066**
6	Buffer Areas (Parkways)	SY	$ 45.00	11,791	$ 530,595	17,660	$ 794,700	4,616	$ 207,720	1,283	$ 57,735	35,350	**$ 1,590,750**
7	Major Arterial Intersection Improvement - Horsetooth and Drake	Each	$ 6,000,000.00	1	$ 6,000,000	1	$ 6,000,000		$ -		$ -	2	**$ 12,000,000**
8	Minor Signalized Intersection Improvement	Each	$ 2,000,000.00	4	$ 8,000,000	4	$ 8,000,000	2	$ 4,000,000	1	$ 2,000,000	11	**$ 22,000,000**
9	Driveway Entrance - Major (> 15' wide)	Each	$ 15,000.00	13	$ 195,000	30	$ 450,000	6	$ 90,000	36	$ 540,000	85	**$ 1,275,000**
10	Driveway Entrance - Minor (<= 15' wide)	Each	$ 5,000.00	2	$ 10,000	2	$ 10,000	2	$ 10,000	1	$ 5,000	7	**$ 35,000**
11	Spring Creek/Arthur Ditch Crossings	Each	$ 2,000,000.00		$ -		$ -		$ -	2	$ 4,000,000	2	**$ 4,000,000**
12	Street Demolition	LF	$ 93.33	5,770	$ 538,514	4,830	$ 450,784	2,325	$ 216,992	2,465	$ 230,058	15,390	**$ 1,436,349**
	Subtotal - Pavement Improvements				*$ 20,890,741*		*$ 21,003,208*		*$ 7,272,824*		*$ 8,988,142*		***$ 58,154,916***
13	Design / Clearances		25%		$ 5,222,685		$ 5,250,802		$ 1,818,206		$ 2,247,036		**$ 14,538,729**
14	Mobilization		10%		$ 2,089,074		$ 2,100,321		$ 727,282		$ 898,814		**$ 5,815,492**
15	Utility Relocations		10%		$ 2,089,074		$ 2,100,321		$ 727,282		$ 898,814		**$ 5,815,492**
16	Erosion Control		3%		$ 626,722		$ 630,096		$ 218,185		$ 269,644		**$ 1,744,647**
17	Earthwork		5%		$ 1,044,537		$ 1,050,160		$ 363,641		$ 449,407		**$ 2,907,746**
18	Storm Drainage and Water Quality		15%		$ 3,133,611		$ 3,150,481		$ 1,090,924		$ 1,348,221		**$ 8,723,237**
19	Traffic Control		10%		$ 2,089,074		$ 2,100,321		$ 727,282		$ 898,814		**$ 5,815,492**
20	Urban Design		10%		$ 2,089,074		$ 2,100,321		$ 727,282		$ 898,814		**$ 5,815,492**
21	Lighting		3%		$ 626,722		$ 630,096		$ 218,185		$ 269,644		**$ 1,744,647**
22	Signing and Striping		3%		$ 626,722		$ 630,096		$ 218,185		$ 269,644		**$ 1,744,647**
23	Art		1%		$ 208,907		$ 210,032		$ 72,728		$ 89,881		**$ 581,549**
	Subtotal - Percentage Based Allowances				*$ 19,846,204*		*$ 19,953,048*		*$ 6,909,183*		*$ 8,538,735*		***$ 55,247,170***
24	Parcels with ROW Impacts	EA	$ 25,000.00	37	$ 925,000	31	$ 775,000	31	$ 775,000	25	$ 625,000	124	**$ 3,100,000**
25	Approx ROW Area	SF	$ 10.00	100,952	$ 1,009,520	102,350	$ 1,023,500	45,633	$ 456,330	10,348	$ 103,480	259,283	**$ 2,592,830**
26	Parcels with ROW Impact to Building or Structure	EA	$ 200,000.00	1	$ 200,000	1	$ 200,000		$ -	1	$ 200,000	3	**$ 600,000**
27	Parcels with Easement Needs (no ROW)	EA	$ 10,000.00	8	$ 80,000	11	$ 110,000	2	$ 20,000	9	$ 90,000	30	**$ 300,000**
	Subtotal - Property Impacts				*$ 2,214,520*		*$ 2,108,500*		*$ 1,251,330*		*$ 1,018,480*		***$ 6,592,830***
	Total				$ 42,951,464		$ 43,064,756		$ 15,433,338		$ 18,545,357		**$ 119,994,915**
	30% Contingency				$ 12,885,439		$ 12,919,427		$ 4,630,001		$ 5,563,607		**$ 35,998,475**
	Total with contingency				**$ 55,836,903**		**$ 55,984,183**		**$ 20,063,339**		**$ 24,108,965**		**$ 155,993,390**
	Approximate Cost Per Linear Foot				$ 9,677		$ 11,591		$ 8,629		$ 9,781		**$ 9,848**