



Exhibit A

Work Plan and Estimate of Cost

Final Design
17th Avenue Extension and CSAH 15 Improvements
Shakopee, Minnesota

Design Services		Estimated Hours									Cost	
		Principal Engineer	Sr. Project Engineer	Project Engineer	Sr. CADD Techs	Graduate Engineer	2-person Survey Crew	RLS	Office Survey	Clerical		Total Hours
Task No.	Description											
1	Design											
	Kick Off Meeting	3	3						2	8		\$1,158.00
	Data Collection		1	2	6	6				15		\$1,730.00
	Topographical Survey						16	1	4	21		\$3,316.00
	Base Mapping		1	1	16	4		4		26		\$3,199.00
	Coordination with Developer	10	10		10				2	32		\$4,888.00
	Coordination & Meeting w/ City Staff (3 Mtgs)	12	16						2	30		\$4,898.00
	County Coordination	18	10		10				1	39		\$6,179.00
	Removals	3		6	12	6				27		\$3,300.00
	Typical Sections / Pavement Design	5		4	16					25		\$3,430.00
	Details / General Notes	1			18	8				27		\$3,320.00
	Street Design	12		20	60	20				112		\$14,040.00
	Intersection Design, Turn Lanes Design	8		10	22	10				50		\$6,280.00
	Watermain Design	1		2	24	20				47		\$5,420.00
	Storm Sewer / Ponding Design	8	8	18	28	20				82		\$10,190.00
	Signing / Striping Design	4			12	10				26		\$3,200.00
	Street Lighting / Private Utility Conduit Design	1		9	8	12				30		\$3,275.00
	Erosion Control	2	2	2	24	12				42		\$5,210.00
	Construction Staging and Traffic Cont	4			8	4				16		\$2,120.00
	Trail and Sidewalk Design	4		4	24	14			1	47		\$5,669.00
	SPUC Coordination	10	18							28		\$4,760.00
	Private Utility Coordination	2	8			8			1	19		\$2,489.00
	Quantities, Cost Estimate	6	12	8	22					48		\$6,870.00
	Easements and Sketches	4		9			2	10		25		\$2,955.00
	SWPPP	1	2	16	2	12				33		\$3,540.00
	Specifications, Bidding Documents	4	9	8	25	6			6	58		\$7,379.00
Subtotal Hours/ Costs		123	100	119	347	172	16	3	18	15	913	\$118,815
Labor Costs		170.00	170.00	105.00	135.00	90.00	172.00	160.00	101.00	69.00		
Total Labor												\$118,815.00
Expenses												
	Permit Fees											
	Title Work For Easements											
	Misc. / Reimbursables											\$900.00
Total Expenses												\$900
Total Labor and Expenses												\$119,715