Municipality McHenry County Township Marengo			L 0 C	W Illin	nois Depart Transporta	ment tion	C	Name Strand Associa	ates, Inc.			
			L Preliminary Engineering		Address 1170 South Houbolt Road							
County McHe					A G E N	Moto	For r Fuel Tax Fu	nds	T A N	City Joliet		
Section 08-00		00-BR							Т	State IL		
Agen impro super	THIS AGREEMENT is made and entered into this day of , between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.											
						Sect	tion Descript	ion				
Name	<u> </u>	loe Road Re	alignment Su	ıppl	leme	ental Services	<u> </u>					
Route	e <u> </u>	TR 32	Length _	0.4	405	Mi.	2,140 feet	FT		(Structure No.	056-3048)
Term	ini	Carmak Ro	ad to 2,140 fe	eet	nort	h at Existing N	Noe Road					
Desc Phas	•		ervices for the	e su	uper	elevation rate	adjustment.					
						Agree	ement Provis	ions				
The E	Engir	neer Agrees,										
							the following of the checked bel		ervio	ces for the LA, in	n connection wit	th the
a	. 🗆	Make such	detailed surve	eys	as a	are necessary	for the prepa	ration of deta	iled	roadway plans		
b		Make strear of detailed b		lair	n hyd	draulic survey	s and gather h	nigh water da	ta, a	and flood historie	es for the prepar	ration
С	. 🗆	analyses the	ereof as may	be	requ	uired to furnis	h sufficient da	ta for the des	ign (cluding borings a of the proposed ents of the DEP	improvement.	and
d	. 🔲						s and counts a posed improv		ters	ection studies as	s may be requir	ed to
е	. 🗆		rway sketch,							-Office of Water ations, and Railr		
f.							ulic Report, (in and bridge ap		omi	ic analysis of bri	dge or culvert ty	ypes)
g	. 🖂	with five (5)	copies of the	pla	ans,	special provis	sions, proposa	ils and estima	ites.	d estimates of co . Additional cop actual cost for i	ies of any or all	
h	. 🖂									of-way dedication of the correspond	ons, construction	

Note: Four copies to be submitted to the Regional Engineer

as required

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	i. Assist the LA in the tabulation and interpretation of the contractors' proposals
	 j. Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
	k. Prepare the Project Development Report when required by the DEPARTMENT.
(2)	That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
(3)	To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
(4)	In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the Contractor.
(5)	That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
(6)	That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.
The	e LA Agrees, (REFER TO EXHIBIT A)
1.	To pay the ENGINEER as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:
	a. A sum of money equal to percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
	b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:
	Schedule for Percentages Based on Awarded Contract Cost
	Awarded Cost Percentage Fees Under \$50,000 (see note) % % % % % % %
	%
	Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.
2.	To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k of the ENGINEER AGREES at actual cost of performing such work plus percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge.
	"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the

work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

- 3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the

	ENGINEER for his actual costs plus	percent incurred up to the time i	ne is notified in writing of such
	abandonment - "actual cost" being defined a	s in paragraph 2 of THE LA AGREE	S.
5.	That, should the LA require changes in any pursuant to paragraph 4 of THE ENGINEER pay the ENGINEER for such changes on the	R AGREEs, after they have been app	
	readiness to serve -"actual cost" being definused in this paragraph shall in no way relieveset of plans and specifications.		

It is Mutually Agreed,

- That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this
 Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the
 ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition
 and that the committee's decision shall be final.
- 2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
- 3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
- 4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

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Executed by the LA: County of McHenry of the (Municipality/Township/County) ATTEST: State of Illinois, acting by and through its _____Clerk Ву _____ (Seal) Title Executed by the ENGINEER: Strand Associates, Inc. 1170 South Houbolt Road ATTEST: Joliet, IL 60431 Title _____ Approved Date Department of Transportation

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of

which shall be considered as an original by their duly authorized officers.

Regional Engineer

CHANGES

NOE ROAD REALIGNMENT

For all pages, REPLACE the word "work" with "services".

Under The Engineer Agrees:

Page 1, Item 1, after "and checked below", ADD "and as clarified in Exhibit B."

Pages 2 and 3, DELETE paragraphs 1 through 5, inclusive, and REPLACE with the following:

- "1. To pay ENGINEER within 15 days following LA's approval of ENGINEER's invoices as compensation for all services performed as stipulated in Paragraphs 1, 2, 3, 5, and 6, under "The ENGINEER Agrees", on a Cost Plus Fixed Fee basis according to the Schedule of Compensation contained in Exhibit B of the Agreement for the successful completion of services. The total compensation shall not exceed \$30,193.27.
 - a) For progressive payments: Upon receipt of monthly invoices from ENGINEER and the approval thereof by the LA, monthly payments for the services performed shall be due and payable to ENGINEER, such payments to be equal to the value of the services minus all previous partial payments made to ENGINEER.
 - b) Final Payment: Upon approval of the services by the LA, but not later than 60 days after the services are completed and reports have been made and accepted by the LA and DEPARTMENT, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of progressive payments previously paid to ENGINEER shall be due and payable to ENGINEER."

Under It is Mutually Agreed, page 3:

DELETE paragraph 3 in its entirety.

ADD the following after paragraph 4:

"5. ENGINEER shall not commence performance of any services under this Agreement until the LA has issued a written Notice to Proceed."

SCOPE OF SERVICES

NOE ROAD BRIDGE REMOVAL AND ROAD REALIGNMENT

Roadway Drawing Revisions (84 hours)

To accommodate superelevation rate adjustment from 8 percent to 4 percent requested by the LA, revisions to the roadway drawings and specifications are necessary. Below is a list of drawings to be revised:

Typical Sections

Revisions to superelevation tables and details.

Alignment, Ties and Benchmarks

Revisions to the alignment and alignment information.

Plan and Profile

Revisions to labeling and line work to reflect the adjusted alignment.

Erosion Control Plan

Revisions to labels and line work.

Drainage and Utility Plan

Revisions to labels, ditch design, and line work.

Grading Plan

Preparation and revisions to the grading plan because of changes in ditch and roadway alignment locations.

Pavement Marking and Landscaping

Revisions to labels and line work.

Cross Sections

Revisions to the cross sections to incorporate the new superelevation rate and alignment.

Quantities

Revisions to quantity calculations for each of the quantities affected by the change in alignment.

Quality Control (12 hours)

Provide quality control review of the prefinal and final submittals after the adjustments have been made.

Wetland Delineation, Report, and Permitting (68 hours)

- 1. Perform field wetland delineation according to United States Army Corps of Engineers (USACE) 1987 manual and 2012 (or most recent) applicable regional supplements; provide a wetland delineation report; and prepare USACE, State, and LA wetland delineation review or jurisdictional determination request forms as provided on the USACE website. Delineation will be according to the cumulative project limits of existing and proposed right-of-way. The wetland delineation will involve collecting: soil, hydrology, and plant data; compilation of existing topographic, hydrologic, and soils mapping; and a brief wetland delineation report transmitting the results of the field services and map review. Jurisdictional determination review forms will be provided as an attachment to the delineation for review and use by the USACE.
- 2. Communicate with USACE, state, or LA agencies regarding wetland delineation, jurisdictional determinations, and potential permitting requirements for the subject area. Complete a minor alternatives analysis with engineers/staff (if wetlands found on-site). If required and if an alternatives analysis indicates that wetlands cannot be avoided, apply for USACE Section 404 permit and Section 401 State/County Water Quality Certification or regional permit. LA shall pay associated permit application fees.

Right-of-Way Plats

By SUBCONSULTANT- See attached Scope of Services.

<u>Schedule</u>

Services will begin up receipt of Notice to Proceed from LA, which is expected by July 15, 2013. Services will be completed on or before July 1, 2014.

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME PRIME/SUPPLEMENT	STRAND ASSOCIATES, INC. SUPPLEMENT#1		DATE <u>07/11/13</u> PTB NO.		
	CONTRACT TERM START DATE RAISE DATE	12 MONTHS 7/15/2013 7/1/2014	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	3.00%	
	ESCAL	ATION PER YEAR			
	7/15/2013 - 7/1/2014				
	12 12				
	= 100.00% = 1.0000 The total escalation for this project v	vould be: 0	00%		

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO. STRAND ASSOCIATES, DATE SUPPLEMENT #1

07/11/13

ESCALATION FACTOR

0.00%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
PRINCIPAL	\$69.67	\$69.67
PROJECT MANAGER	\$55.73	\$55.73
STRUCTURAL ENGINEER	\$49.50	\$49.50
PROJECT ENGINEER	\$33.04	\$33.04
TECHNICIAN	\$29.57	\$29.57
CLERICAL	\$25.15	\$25.15
CLERICAL	Ψ23.13	\$0.00
		\$0.00
		\$0.00
		\$0.00
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		\$0.00

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

Exhibit C

DF-824-039

FIRM	STRAND ASSOCIATES, INC.			DATE	67 /Y1/ 23 94
PSB	·	OVERHEAD RATE	1.678		
PRIME/SUPPLEMENT	SUPPLEMENT #1	COMPLEXITY FACTOR	0		

			OVERHEAD	IN-HOUSE		Outside	SERVICES			% OF
ITEM	MANHOURS	PAYROLL	&	DIRECT	FIXED	Direct	BY	DBE	TOTAL	GRAND
			FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL		TOTAL
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(B-G)	
ROADWAY DRAWINGS	84	3,306.28	5,547.94	1,275.00	1,223.32	\$100.00			11,452.54	37.93%
QUALITY CONTROL	12	724.52	1,215.74	142.50	268.07	\$0.00			2,350.84	7.79%
WETLAND DELINEATION, REPORT, & PERMITTING	68	2,585.14	4,337.86	927.50	956.50	\$501.70			9,308.71	30.83%
ROW PLATS							7,081.18		7,081.18	23.45%
	1									
	1									
	+									
	-									
	-									
	1									
					0.55					0.00-1
Subconsultant DL					0.00				0.00	0.00%
TOTALS	164	6,615.94	11,101.55	2,345.00	2,447.90	601.70	7,081.18	0.00	30,193.27	100.00%

AVERAGE HOURLY PROJECT RATES

FIRM	STRAND ASSOCIATES, INC.				
PSB		DATE 07/11/13			
PRIME/SUPPLEMEN	NT SUPPLEMENT #1				
		SHEET	1	OF	5

PAYROLL	AVG	TOTAL PROJECT RATES			ROADW	AY DRAW	INGS	QUALIT	Y CONTR	ROL	WETLA	ND DELIN	EATION,	ROW PI	ATS				
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
PRINCIPAL	69.67	10	6.02%	4.20	4	4.76%	3.32	4	33.33%	23.22	2	2.94%	2.05						
PROJECT MANAGE		40	24.10%	13.43	20	23.81%	13.27	8	66.67%	37.15	12	17.65%	9.83						
STRUCTURAL ENG		0									0								
PROJECT ENGINEE	33.04	80	48.19%	15.92	40	47.62%	15.73				40	58.82%	19.44						
TECHNICIAN	29.57	32	19.28%	5.70	20	23.81%	7.04				12	17.65%	5.22						
CLERICAL	25.15	4	2.41%	0.61							4	5.88%	1.48						
		0																	
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TOTALS		166	100%	\$39.86	84	100.00%	\$39.36	12	100%	\$60.38	68	103%	\$38.02	0	0%	\$0.00	0	0%	\$0.00

Direct Costs

XEROX (In-House)				
TASK	_	QTY	RATE	TOTAL
ROADWAY DRAWINGS		300	\$0.15	\$45.00
QUALITY CONTROL		150	\$0.15	\$22.50
WETLAND DELINEATION, REPORT, & PERMITTING		150	\$0.15	\$22.50
	TOTALS	600		\$90.00
MILEAGE (Outside) TASK	(\/_vohicle T_trip M_miles)	MILES	RATE	TOTAL
ROADWAY DRAWINGS	(V=vehicle, T=trip, M=miles)	0	\$0.565	\$0.00
QUALITY CONTROL		0	\$0.565	\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING	1VX2TX90M	180	\$0.565	\$101.70
VETERIAD DECINE MICH., RELORIT, WE ENWITTING	TOTALS	180	ψ0.000	\$101.70
CADD (In-House)				
TASK		QTY	RATE	TOTAL
ROADWAY DRAWINGS		70	\$15.00	\$1,050.00
QUALITY CONTROL		4	\$15.00	\$60.00
WETLAND DELINEATION, REPORT, & PERMITTING		16	\$15.00	\$240.00
	TOTALS	90		\$1,350.00
WORD PROCESSING (In-House)				
TASK		QTY	RATE	TOTAL
ROADWAY DRAWINGS		10	\$15.00	\$150.00
QUALITY CONTROL		4	\$15.00	\$60.00
WETLAND DELINEATION, REPORT, & PERMITTING	TOTALO	40	\$15.00	\$600.00
	TOTALS	54		\$810.00
POSTAGE (Outside)				TOTAL
TASK ROADWAY DRAWINGS	T		1	**TOTAL ***100.00
QUALITY CONTROL	+			\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING				\$50.00
· · · · · ·			TOTALS	\$150.00
MISC. EQUIPMENT (Outside) TASK	DESCRIPTION	DAYS	RATE	TOTAL
ROADWAY DRAWINGS	DECOMM HOW	DATE	10112	\$0.00
QUALITY CONTROL				\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING	GPS WITH/PHONE	1	\$350.00	\$350.00
		1	TOTALS	\$350.00
PHONE (In-House)				
TASK	DESCRIPTION	UNITS	RATE	TOTAL
ROADWAY DRAWINGS		60	\$0.50	\$30.00
QUALITY CONTROL		0	\$0.50	\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING		30	\$0.50	\$15.00
		90	TOTALS	\$45.00
MYLAR PRINTS / COLOR COPIES (In-House)	DESCRIPTION	SHEETS	RATE	TOTAL
TASK ROADWAY DRAWINGS	DESCRIPTION	SHEETS	\$1.00	\$0.00
QUALITY CONTROL	+		\$1.00	\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING	Reports	50	\$1.00	\$50.00
· · · · ·	Король	50	TOTALS	\$50.00
OUTSIDE SERVICES (Outside) TASK				TOTAL
ROADWAY DRAWINGS				\$0.00
QUALITY CONTROL	1			\$0.00
WETLAND DELINEATION, REPORT, & PERMITTING	İ		i i	\$0.00
ROW PLATS				\$7,081.18
			TOTALS	\$7,081.18
	PROJE	CT TOTAL D	IRECT COST=	\$10,027.88
COST BREAKDOWN				
COO. D.ILANDONN	In-House	Outside	By Others	

	In-House	Outside	By Others
ROADWAY DRAWINGS	\$1,275.00	\$100.00	
QUALITY CONTROL	\$142.50	\$0.00	
WETLAND DELINEATION, REPORT, & PERMITTING	\$927.50	\$501.70	
ROW PLATS	\$0.00		\$7,081.18
TOTAL	\$2.345.00	\$601.70	\$7,081,18

GRAND TOTAL \$10,027.88

Page 1 Direct Costs

April 29, 2013

Ms. Vanessa L. Martin, P.E. Strand Associates, Inc. 1170 South Houbolt Road Joliet, Illinois 60431

Re:

McHenry County D.O.T. - Noe Road Land Acquisition Supplemental No. 2 Survey

Proposal

Dear Ms. Martin:

Enclosed, please find our second supplemental survey proposal to prepare a statutory plat of highways, plat of vacation and legal descriptions for the referenced project.

Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,

Jorgensen & Associates, Inc.,

Christian H. Jorgensen, P. L.S.

President

CHJ/pt

Enclosures

E:\Strand\NoeRd\Supplemental #2\LTR

Section:

County: McHenry

Job No.:

Exhibit "A"

Hourly Rate Range - Consultant's Regular Staff

Classification	<u>From</u>	<u>To</u>
Principal, Manager, P.L.S.	40.00	42.00
Supervisor, Project Surveyor	39.00	41.00
Cadd Supervisor, Survey Party Chief, S.I.T., Survey Party Chief	21.50	28.50
Instrument Operator, Cadd Operator, assignable Clerical and Secretarial Labor	14.00	20.00

Section:

County: McHenry

Job No.:

Exhibit "B"

Payroll Burden & Fringe Costs

	% of Direct Productive Payroll
Federal Insurance Contributions Act	_ 11.71%
State Unemployment Compensation	_ 1.81%
Federal Unemployment Compensation	_ 0.16%
Workmen's Compensation Insurance	_ 1.88%
Paid Holidays, Vacation, Sick Leave, Personal Leave	_ 12.20%
Bonus	_ 5.05%
Pension	_ 0.87%
Group Insurance	36.25%
Total Payroll Burden & Fringe Costs	69.93%

Section:

County: McHenry

Job No.:

Exhibit "C"

Overhead and Indirect Costs

O TOTAL CONTROL CONTROL	% of Direct
	Productive
	Payroll
	<u>1 ayron</u>
Business Insurance	4.70%
Depreciation	14.08%
Indirect wages and salaries	42.12%
Reproductive and printing costs	0.19%
Office Supplies	3.93%
Computer Costs	1.27%
Professional Fees	1.64%
Telephone	2.06%
Fees, license & dues	1.14%
Repairs and maintenance	0.50%
Business space rent	5.37%
Facilities - capital	0.88%
Travel - Meals	0.09%
Survey Supplies	3.02%
Automobile/travel expense	5.39%
Equipment Rental	1.00%
Miscellaneous Expense	0.70%
State Income Tax	0.50%
Postage	0.24%
Educational & Professional Registrations	0.96%
Total Overhead	89.78%

Route:

Noe Road

Section:

County:

McHenry

Job No.:

Exhibit "D"

Classification Types & Rates

Sheet 1 of 2

- A. Supervisor, P.L.S.
- B. Survey Party Chief, S.I.T.
- C. Instrument Operator
- D. Cadd Supervisor

Classification Rates used for Calculation of Fee

A. Supervisor, P.L.S	. \$ 40.00
B. Survey Party Chief, S.I.T.	
C. Instrument Operator	
D. Cadd Supervisor	. \$ 27.50

Section:

County: McHenry

Job No.:

Exhibit "D"

Average Hourly Rate Calculation

Sheet 2 of 2

Supervisor, P.L.S.	14 hours	@	\$40.00/hour	=	\$ 560.00
Survey Party Chief, S.I.T.	19 hours	@	\$22.00/hour	=	\$ 418.00
Instrument Operator	19 hours	@	\$18.25/hour	=	\$ 346.75
Cadd Supervisor	30 hours	@	\$27.50/hour	=	\$ 825.00
	82 hours				\$ 2,149.75

Average Hourly Rate =
$$\frac{$2,149.75}{82}$$
 = \$26.22/hour

Route: Noe Road COST ESTIMATE OF CONSULTANT'S SERVICES

Section:

Project:

Consultant: Jorgensen & Associates, Inc.

County: McHenry Date:

April 29, 2013

Job No.:

No. of Parcels: 3

Cost Plus Fixed Fee = 14.5% [(2.3 + R)DL + IHDC]

	Item	Number of Man Hours (A)	Payroll (B)	Overhead & Fringe Benefits (C)	In-house Direct Costs (D)	Sub-Total (E)	Profit (F)	Services By Others	Total	Percent of Grand Total
	1) Pre-Survey Phase	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$640.00	\$640.00	9.04%
	2) Survey Reconnaissance	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$0.00	0.00%
	3) Project Survey Plan	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$0.00	0.00%
	4) First Submittal Plat of Highways and Descriptions	15	\$425.00	\$678.77	\$5.00	\$1,108.77	\$142.46	N/A	\$1,251.23	17.67%
	5) Survey (Field)	38	\$764.75	\$1,221.38	\$88.00	\$2,074.13	\$267.80	N/A	\$2,341.94	33.07%
	6) Survey (Office)	2	\$80.00	\$127.77	\$0.00	\$207.77	\$26.68	N/A	\$234.45	3.31%
	7) Final Submittal Plat of Highways and Descriptions	3	\$95.00	\$151.72	\$0.00	\$246.72	\$31.68	N/A	\$278.41	3.93%
	8) Coordination Meetings	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$0.00	0.00%
	9) QC/QA	4	\$135.00	\$215.61	\$0.00	\$350.61	\$45.02	N/A	\$395.63	5.59%
	10) Plat of Vacation - Noe Road	20	\$650.00	\$1,038.12	\$30.25	\$1,718.37	\$221.16	N/A	\$1,939.53	27.39%
TOTAL	.s	82	\$2,149.75	\$3,433.37	\$123.25	\$5,706.37	\$734.81	\$640.00	\$7,081.18	100.00%

Section Court	nty:	McHenry					
J 00 1	NU	Manhour Breakdown Land Acquisition Estimate					
		Ler	ngth of Pr	oject			
		Noe Road	<u>+ 5</u>	346' = 1.013 miles			
		Total Length	<u>+</u> 5	346' = 1.013 miles			
3 Pa	arcels:	3 Fee Simple (2 revised, 1 addit	ional)				
1. F		vey Phase earch available records					
	a.	Title Co.)				
	b.	Recorder's Office)				
	c.	McHenry D.O.T.)				
	d.	Utilities)				
	e.	Private Surveyors)				
	f.	Land Owners)		0 MH		
				Sub-total Item # 1	0 MH		
2.	Reco	onnaissance Survey		2 Men	0 MH		
3.	Proje	ect Survey Plan		\pm 2,640'/sheet - 2 sheets			
	a.	Alignment info)				
	b.	Existing R.O.W. info)				
	c.	Land line data)				
	d.	Subdivision data)		0 MH		
				Sub-total Item #3	0 MH		

Noe Road

Route:

4.	First	Submittal Plat of Highways &	z Descriptions	
	a.	Ownership info)	
	b.	Total holding boundaries)	
	c.	Total holding area listing)	0 MH
	d.	Private survey info)	
	e.	Deed calculated closures)	
	f.	Layout and drafting	<u>+</u> 1,100'/sht. <u>+</u> 1 sheet 12 hrs./sheet x 1 =	12 MH
		Total Holding sheets		0 MH
		Alignment & Ties sheets	2 hrs./sheet x 1 =	2 MH
	g.	Legal descriptions	1 description	1 MH
			Sub-total Item #4	15 MH
5.	Surv	ey (Field)		
	a.	Center line alignments & ti Existing Noe Road Existing Carmack Road	es - 5,279' - 3 hrs. x 2 men = - 1,100' - 3 hrs. x 2 men =	6 MH 6 MH
	b.	Verify existing control poir 6 hours x 2 men =	nts	12 MH
	c.	Establish additional control	points	0 MH
	d.	Monument & tie proposed a 7 hours x 2 men =	right of way	14 MH
			Sub-total Item #5	38 MH

	a.	Compute traverse		0 MH
	b.	Compute existing right of way, section line & property boundaries	S	0 MH
	c.	Compile appraisal topography		0 MH
	d.	Compute center line alignments 1 hour x 1 man =		1 MH
	e.	Compute proposed right of way 1 hour x 1 man =	_	1 MH
			Sub-total Item #6	2 MH
7.	Final	Submittal Plat of Highways & Descriptions		

Survey (Office)

6.

, .		2		
	a.	Final drafting ± 1 sheet 2 hours x 1 man =		2 MH
	b.	Prepare & record "Monument Record"		0 MH
	c.	Final descriptions 1 description		1 MH
	d.	Assembly of final papers		0 MH
			Sub-total Item #7	3 MH
8.	Coore	dination Meetings		0 MH

9. QC/QA

	a.	Check preliminary plat of highways 1 sheet		1 MH
	b.	Check preliminary legal descriptions 1 legal description		1 MH
	c.	Check final plat of highways 1 sheet		1 MH
	d.	Check final legal descriptions 1 legal description		<u>1 MH</u>
			Sub-total Item #9	4 MH
10.	Plat of	Vacation Noe Road		
	a.	Compute areas of vacation 1 hour x 1 man =		1 MH
	b.	Layout and drafting - 2 sheets 12 hours x 1 man =		12 MH
	c.	Legal descriptions & certificates 4 hours x 1 man =		4 MH
	d.	Check plat of vacation 2 sheets		<u>3 MH</u>
			Total All Items	82 MH

Section:

County: Job No.: McHenry

Manhour Breakdown By Item

<u>Item</u>	Classification	Manhours
1) Pre-Survey		
2) Survey Reconnaissance		
3) Project Survey Plan		
4) First Submittal Plat of Highways	Supervisor, P.L.S. Cadd Supervisor	1 14
5) Survey (Field)	Survey Party Chief, S.I.T. Instrument Operator	19 19
6) Survey (Office)	Supervisor, P.L.S.	2
7) Final Submittal Plat of Highways	Supervisor, P.L.S. Cadd Supervisor	1 2
8) Coordination Meetings		
9) QC/QA	Supervisor, P.L.S. Cadd Supervisor	2 2
10) Plat of Vacation Noe Road	Supervisor, P.L.S. Cadd Supervisor	8 12

Section:

County: McHenry

Job No.:

Breakdown of In House Direct Costs

Item

4. First Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars

1 sheet @ \$5.00/sheet = \$5.00

5. Survey (Field)

a. Trips to project site - 2 ea. \pm 80 miles/trip x 2 trips = \pm 160 miles \pm 160 miles @ \$0.55/mile = \$88.00

10. Plat of Vacation Noe Road

a. Deliver Final Mylars to McHenry County D.O.T.

 \pm 55 miles/trip x 1 trip = \pm 55 miles

 \pm 55 miles @ \$0.55/mile = \pm 30.25

Total All Items \$ 123.25

Section:

County: McHenry

Job No.:

Breakdown of Services By Others

Item

- 1. Pre-Survey Phase
 - a. Commitment for Title Insurance Letters 2 Commitments @ \$320.00 each =

\$ 640.00