Municipality		Name
маторату		C GRAEF-USA
Township		O N
Township	L	S Address 8501 W Higgins Road. Suite 280
County	A Services Agreement	L City
Lake	- 	T City A Chicago
Section	- N	N Color
14-00144-18-CH	C	T State Illinois
improvement of the above SECTION supervision of the State Department of	ered into this day of	e State of Illinois under the general RTMENT", will be used entirely or in part
	Section Description	
Name Sidewalk improvements and	related intersection improvements.	
Route Ela Road Length (0.09 Mi. 500.00 FT	(Structure No.
		,
Termini From 250 feet south of Ra	nd Road to Terrace Lane, Lake Zurich, IL	
Description: Add sidewalk improvements, related of improvements to the Rand Road and	cross walks and pedestrian signal heads to plan	s being prepared for intersection
improvemente to the Hand Road and	Agreement Provisions	
The Engineer Agrees,		
 To perform or be responsible for to proposed improvements herein be 	he performance of the following engineering se efore described, and checked below:	rvices for the LA, in connection with the
a. 🛛 Make such detailed survey	s as are necessary for the preparation of detail	ed roadway plans
 b. Make stream and flood pla of detailed bridge plans. 	in hydraulic surveys and gather high water data	a, and flood histories for the preparation
analyses thereof as may b	e such soil surveys or subsurface investigations e required to furnish sufficient data for the desig be made in accordance with the current require	gn of the proposed improvement.
d. 🛛 Make or cause to be made	e such traffic studies and counts and special inte ne design of the proposed improvement.	
e. 🔲 Prepare Army Corps of En	gineers Permit, Department of Natural Resourc nd/or Channel Change sketch, Utility plan and I	es-Office of Water Resources Permit, ocations, and Railroad Crossing work
f. Prepare Preliminary Bridge and high water effects on i	e design and Hydraulic Report, (including econd oadway overflows and bridge approaches.	omic analysis of bridge or culvert types)
with five (5) copies of the p	d detailed plans, special provisions, proposals a plans, special provisions, proposals and estimat all be furnished to the LA by the ENGINEER at	es. Additional copies of any or all
 h. Furnish the LA with survey easement and borrow pit a as required. 	and drafts in quadruplicate of all necessary rigind channel change agreements including prints	ht-of-way dedications, construction s of the corresponding plats and staking
Note: Four copies to be submitted to	the Regional Engineer	DRAFT

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BLR 05510 (Rev. 11/06)

	 i. Assist the LA in the tabulation and interpretation 	of the contractors' proposals	
	 j. Prepare the necessary environmental document DEPARTMENT's Bureau of Local Roads & Street 	ts in accordance with the procedures adopted lets.	by the
	k. Prepare the Project Development Report when r	required by the DEPARTMENT.	
(2)) That all reports, plans, plats and special provisions to be be in accordance with current standard specifications are such reports, plats, plans and drafts shall, before being DEPARTMENT.	nd policies of the DEPARTMENT. It is being u	inderstood that all
(3)) To attend conferences at any reasonable time when rec	quested to do so by representatives of the LA	or the Department.
(4)	In the event plans or surveys are found to be in error du survey corrections are necessary, the ENGINEER agree though final payment has been received by him. He sha minimum delay to the Contractor.	es that he will perform such work without expe	nse to the LA, ever
(5)	That basic survey notes and sketches, charts, computate pursuant to this AGREEMENT will be made available, u without restriction or limitations as to their use.	tions and other data prepared or obtained by the upon request, to the LA or the DEPARTMENT value.	ne Engineer without cost and
(6)	That all plans and other documents furnished by the EN and will show his professional seal where such is require	IGINEER pursuant to this AGREEMENT will be red by law.	e endorsed by him
The	e LA Agrees,		
1.	To pay the ENGINEER as compensation for all services accordance with one of the following methods indicated	s performed as stipulated in paragraphs 1a, 1g by a check mark:	, 1i, 2, 3, 5 and 6 in
		ent of the awarded contract cost of the propose	ad improvement as
	approved by the DEPARTMENT.	and the analysis some solution and proposed	d improvement as
	b. A sum of money equal to the percent of the awar the DEPARTMENT based on the following sched	rded contract cost for the proposed improvemedule:	ent as approved by
	Schedule for Percentages	Based on Awarded Contract Cost	
	Awarded Cost	Percentage Fees	
	Under \$50,000	24,972.52	(see note)
			<u></u> %
			% %
			· %
			%
	Note: Not necessarily a percentage.	. Could use per diem, cost-plus or lump sum.	
2.	as material cost plus payrolls, insurance, social security expenses will be reimbursed to the ENGINEER at his ac sublet all or part of the services provided under the para or part of this work, the LA will pay the cost to the ENGI	ofit, overhead and readiness to serve - "actual and retirement deductions. Traveling and oth ctual cost. Subject to the approval of the LA, tl graph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the EN NEER plus a five (5) percent service charge.	cost" being defined er out-of-pocket he ENGINEER may GINEER sublets al
	"Cost to Engineer" to be verified by furnishing the LA and work. The classifications of the employees used in the value the services performed. If the personnel of the firm, inclusionally be performed by lesser-salaried personnel.	work should be consistent with the employee o luding the Principal Engineer, perform routine s	lassifications for services that

- 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. 4. 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 he is notified in writing of such abandonment -"actual cost" being defined as in paragraph 2 of THE LA AGREES. 5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of THE ENGINEER AGREEs, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus percent to cover profit, overhead and readiness to serve -"actual cost" being defined as in paragraph 2 of THE LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans and specifications. It is Mutually Agreed, 1. 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.

Executed by the LA: Lake County of the (Municipality/Township/County) ATTEST: State of Illinois, acting by and through its Clerk (Seal) Title Executed by the ENGINEER: Graef-USA Inc. 8501 West Higgins Road, Suite 280 ATTEST: Chicago, IL 60631 By Title Vice President Title Principal, Project Manager **Approved** Date Department of Transportation Regional Engineer

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.

Ela road Sidewalk South of US 12 (Rand Rd.) to IL 22 Plan preparation Village of Lake Zurich Lake County Project Scope

Project Description. The work will consist of the preparation of improvement plans for adding approximately 200 feet of sidewalk on the east side of Ela Road north of US 12 (Rand Rd.) and 200 feet south of US 12 (Rand Rd.) on the west side to connect to the existing sidewalk. Traffic Signal Plans will be enhanced to provide pedestrian signal movements on the north and west legs of the US 12 (Rand Rd.)/Ela Road intersection. The work will be performed within the limits of the current PESA Report from the Phase I Project Report.

The following is a list of tasks associated with the project.

Task 1. Survey, Base-mapping and Field Check.

A Supplemental Survey will be conducted to coordinate the survey prepared by Lake County with the survey done by GRAEF. Base maps will be prepared from the Supplemental Survey for the combined project area. A field check of the combined topographic survey will be performed to verify the contents of the survey.

Task 2. Modify Phase I Report to include Pedestrian Movements

- Prepare technical Memorandum to the Phase I Report to Include Pedestrian Movements
- 2. Modify INTERIM Intersection Design Study to add Pedestrian Phases on the north side of US 12 (Rand Rd.) and on the west side of Ela Road.
- 3. Meet with IDOT Bureau of Traffic concerning additions.

Task 2. Improvement Plans

Improvement plan sheets to be added to the project plan set. Estimated sheets are:

- a. Typical Sections 1 sheet
- b. Modify Alignment Plan 1 sheet
- c. Roadway/Drainage Sheets, 20 Scale 1 sheet
- d. Modify Erosion Control/Landscaping, 50 Scale 1 sheet.
- e. Modify Traffic Signal plans 2 sheets
- f. Cross Sections
- g. Special Provisions
 - Standard Specifications for Road and Bridge Construction.
 - 2. Supplemental Specifications and Recurring Special Provisions
 - 3. District One Special Provisions
 - 4. BDE Special Provisions
 - 5. Project Specific Special Provisions

Task 3. Quantities and Estimates

- a. A Quantity Calculation file for the sidewalk improvements will be prepared for the project.
- b. An estimate of cost will be prepared for the sidewalk portion of the project.

Task 4. Meetings

- a. Two meetings at LCDOT.
- b. One meeting at IDOT.

Task 5. Quality Control/ Quality Assurance

A QC/QA review will be performed for the Preliminary, Pre-final and Final submittals.

Task 6. Administration

Administrative time includes staffing issues, invoicing and overall Project management.

Schedule

A schedule for the project will be developed.

Rand & Ela Roads Intersection Improvement Proposed Schedule											
	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Activity											
Topographic Survey											
Geotechnical Borings											
Structural plans											
Preliminary/Pre-final Plans											
IDOT/LCDOT/LZ Review											
Final Plans											
IDOT Process to Letting											
Utility Coordination											

PAYROLL ESCALATION TABLE FIXED RAISES

¥	3.00%		
DATE 03/12/14 PTB NO. <u>Ela Road Si</u> dewalk	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE		2.70%
	10 MONTHS 3/1/2014 4/1/2014	ESCALATION PER YEAR	9 10 92.70%
GRAEF	CONTRACT TERM START DATE RAISE DATE	Ш	= 1.0270 The total escalation for this project v
FIRM NAME PRIME/SUPPLEMENT			

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PAYROLL RATES

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

GRAEF DATE

03/12/14

Ela Road Sidewalk

ESCALATION FACTOR

2.70%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Professional IX	\$64.46	\$66.20
Professional VII	\$51.17	\$52.55
Professional VI	\$47.50	\$48.78
Professional V	\$41.90	\$43.03
Professional IV	\$35.14	\$36.09
Professional III	\$31.32	\$32.17
Professional II	\$26.13	\$26.84
Professional I	\$24.35	\$25.01
Technician IV	\$29.38	\$30.17
Technician III	\$25.07	\$25.75
Technician II	\$21.83	\$22.42
Technician I	\$14.88	\$15.28
Administrative	\$21.86	\$22.45

Subconsultants

FIRM NAME	GRAEF	DATE	03/12/14
PRIME/SUPPLEMENT			***************************************

PSB NO. Ela Road Sidewalk

NAME	Direct Labor Total	Contribution to Prime Consultant
None		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total	0.00	0.00

PREPARED BY THE AGREEMENTS UNIT

COST ESTIMATE OF CONSULTANT SERVICES **COST PLUS FIXED FEE**

DF-824-039 REV 12/04

03/12/14

DATE

GRAEF PRIME/SUPPLEMENT FIRM PSB

Ela Road Sidewalk

OVERHEAD RATE COMPLEXITY FACTOR

1.6753

DBE				OVERHEAD	IN-HOUSE		Outside	SERVICES			% OF
DROP	TEM	MANHOURS	PAYROLL	త	DIRECT	FIXED	Direct	BÝ	DBE	TOTAL	GRAND
BOX				FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL	•	TOTAL
		(A)	(B)	(ပ)	<u>e</u>	Œ	(F)	<u>©</u>	Ξ	(B-G)	
	Supp Survey & Fld Chk	28	868.84	1,455.57		321.47	109.80			2,755.68	11.03%
	Modify Phase I Report	28	1,177.11	1,972.01		435.53				3,584 64	14.35%
	Improvement plans	94	3,294.80	5,519.78		1,219.08	221.80			10,255.46	41.07%
	Quantities & Estimates	12	472.91	792.27		174.98				1,440,16	5.77%
	Meetings	24	983.91	1,648.34		364.05	99.43			3,095.72	12.40%
	QC/QA	16	840.83	1,408.63		311.11				2.560.57	10.25%
	Administration	8	420.41	704.32		155.55				1,280.28	5.13%
•	Subconsultant DL					0.00				00.00	%00.0
-	TOTALS	210	8,058.81	13,500.92	00:0	2,981.76	431.03	00:00	00.00	24,972.52	100.00%

DBE 0.00%

DBE

PREPARED BY THE AGREEMENTS UNIT

AVERAGE HOURLY PROJECT RATES GRAEF FIRM PSB PRIME/S

PSB	Ela Road Sidewalk	Sidewalk												DATE	DATE 03/12/14				
PRIME/SUPPLEMENT	<u></u>													,					
													S	SHEET	•	-	Р	7	
PAYROLL	AVG	TOTAL PROJECT RATES			Supp Su	Supp Survey & Fld Chk	Г	Modify P	Modify Phase I Report	Г	mprover	Improvement plans	Γ	Quantitie	Quantities & Estimates		Meetings	,	
	HOURLY	Hours	%	Wgtd	Hours	%	v	Hours	%	ъ	Hours	%	Wgtd	Hours	%	g	Hours	%	Watd
CLASSIFICATION	RATES		Part.	Avg		Part.			Part	Avg		Part.			Part.	Avg		Part	Avg
Professional IX	66.20	0																	
Professional VII	52.55	34	16,19%	8.51							9	6.38%	3.35				4	16.67%	8.76
Professional VI	48.78	0										•							
Professional V	43.03	99	31.43%	13.52	4	14.29%	6.15	24	85.71%	36.88	18	19.15%	8.24	80	%2999	28.69	12	50.00%	21.52
Professional IV	36.09	14	6.67%	2.41				4	14.29%	5.16	10	10.64%	3.84						
Professional III	32.17	64	30.48%	9.80	4	14.29%	4.60				48	51.06%	16.43	4	33.33%	10.72	80	33.33%	10.72
Professional II	26.84	0																	
Professional I	25.01	12	5.71%	1.43							12	12.77%	3.19						
Technician IV	30.17	12	5.71%	1.72	12	42.86%	12.93												
Technician III	25.75	80	3.81%	0.98	æ	28.57%	7.36												
Technician II	22.42	0																	
Technician I	15.28	0																	
Administrative	22.45	0																	
		0																	
		0																	
		0																	
TOTALS		210	100%	\$38.38	28	100.00% \$31.03	\$31.03	28	100%	\$42.04	94	100%	\$35.05	12	100%	\$39.41	24	100%	\$41.00
																			1

158

2

PREPARED BY THE AGREEMENTS UNIT

AVERAGE HOURLY PROJECT RATES GRAEF Ela Road Sidewalk FIRM GPSB EPRIME/SUPPLEMENT

03/12/14 7 DATE SHEET

4

Р

PAYROLL	AVG	QC/QA		/	Administration	ation													
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Watd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part	Avg		Part.	Avg		Part.	Avg		Part.	Ava
Professional IX	66.20																		
Professional VII	52.55	16	100.00%	52.55	8	100.00%	52.55												
Professional VI	48.78																		
Professional V	43.03																		
Professional IV	36.09																		
Professional III	32.17																		
Professional II	26.84																		
Professional I	25.01																		
Technician IV	30.17																		
Technician III	25.75																		
Technician II	22.42																		
Technician I	15.28																		
Administrative	22.45																		
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TOTALS		16	100% \$52.55	\$52.55	œ	100%	\$52.55	0	%0	\$0.00	0	%0	\$0.00	0	%0	\$0.00	0	%0	\$0.00

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FIRM

GRAEF

Project:

Ela Road Sidewalk

Project Costs

Meetings LCDOT Mileage Tolls	67 miles per trip @	2 trips @ 2 trips @	\$	0.560 1.70	per mile = \$ 75.04 per trip = \$ 3.40
Mileage Tolls	34 miles per trip @	1 trips @ 1 trips @	\$ \$	0.560 1.95	per mile = \$ 19.04 per trip = \$ 1.95 \$ 99.43
Supplemental Survey Mileage Tolls	95 miles per trip @	2 trips @ 2 loc @	\$	0.560 1.70	per mile = \$ 106.40 per trip = \$ 3.40
Improvement Plans Preliminary Full Size 1/4 Size	16 sets @ 15 sets @	4 sheets/set @ 4 sheets/set @	\$	1.50 0.17	\$ 109.80 per sheet \$ 96.00 per sheet \$ 10.20 \$ 106.20
Prefinal Full Size 1/4 Size	9 sets @ 15 sets @	4 sheets/set @ 4 sheets/set @	\$	1.50 0.17	per sheet \$ 54.00 per sheet \$ 10.20
Final Full Size Mylar Full Size prints	1 sets @	4 sheets/set @	\$	4.50	\$ 64.20 per sheet \$ 18.00
1/4 Size	5 sets @ 5 sets @	4 sheets/set @ 4 sheets/set @	\$	1.50 0.17	per sheet \$ 30.00 per sheet \$ 3.40 \$ 51.40

Total Direct Cost \$ 431.03