


Local Agency County of Lake	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Federal Participation	C O N S U L T A N T	Consultant Civiltech Engineering, Inc.
County Lake				Address 450 E. Devon Avenue, Suite 300
Section 09-00135-11-BT				City Itasca
Project No. CMM-9003(560)				State IL
Job No. D-91-326-10				Zip Code 60143
Contact Name/Phone/E-mail Address Mr. Chuck Gleason, P.E. 847-377-7400 cgleason@lakecountvil.gov				Contact Name/Phone/E-mail Address Mr. Jon R. Vana, P.E. 630.735.3382 ivana@civiltechinc.com

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 PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

Project Description

Name Washington Street - Bike Path Route FAU 1223 Length 0.63 mi Structure No. _____
Termini Atkinson Road to Lancer Lane

Description Phase II engineering services for the Washington Street Bike Path from Atkinson Road to Lancer Lane. Engineering services will include bike path geometrics, drainage and utility, retaining walls, and traffic signal design as necessary for the preparation of contract plans, special provisions and estimates. Services will also include ROW acquisition, surveying, environmental and geotechnical services.

Agreement Provisions

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.
2. To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
3. To complete the services herein described within 730 calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
4. The classifications of the employees used in the work should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
5. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
6. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of work by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
7. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.
8. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.

9. The undersigned certifies neither the ENGINEER nor I have:
- employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
 - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
 - are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
 - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
11. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).
13. Scope of Services to be provided by the ENGINEER:
- Make such detailed surveys as are necessary for the planning and design of the PROJECT.
 - Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
 - Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
 - Design and/or approve cofferdams and superstructure shop drawings.
 - Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
 - Prepare the necessary environmental and planning documents including the Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
 - Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
 - Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
 - Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
 - Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
 - Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

II. THE LA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee CPFF = 14.5%[DL + R(DL) + OH(DL) + IHDC], or
 CPFF = 14.5%[DL + R(DL) + 1.4(DL) + IHDC], or
 CPFF = 14.5%[(2.3 + R)DL + IHDC]

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor

Specific Rate (Pay per element)
Lump Sum _____

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum o money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

III. IT IS MUTALLY AGREED,

1. That no work shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.

3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- b. Establishing a drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
- c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
- f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
- g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LA deems appropriate.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
Civiltech Engineering, Inc	36-3606666	\$135,116.38
Sub-Consultants:	TIN Number	Agreement Amount
Jorgensen & Associates, Inc.	36-3668574	\$21,903.35
Santacruz Associates Ltd	36-3851733	\$9,800.00
"T" Engineering Services Ltd.	36-2765336	\$600.00
Midland Standard Engineering & Testing, Inc.	20-2435502	\$5,120.00
Cardno Entrix, Inc.	76-0265862	\$11,676.00
	Sub-Consultant Total:	\$49,099.35
	Prime Consultant Total:	\$135,116.38
	Total for all Work:	\$184,215.73

Executed by the LA:

(Municipality/Township/County)

ATTEST:

By: _____
Willard R. Helander, Lake County Clerk

By: _____
Title: David B. Stolman, Chairmain, County Board

(SEAL)

Executed by the ENGINEER:

ATTEST: _____
By: Robert J. Andres
Title: Robert J. Andres, Vice President

Civiltech Engineering, Inc.
By: John L. Breitsameter
Title: John L. Breitsameter, President

Exhibit A - Preliminary Engineering

Route: Washington Street Bike Path
 Local Agency: County of Lake
 Section: 09-00135-11-BT
 Project: CMM-9003(560)
 Job No.: D-91-326-10

*Firm's approved rates on file with IDOT's Bureau of Accounting and Auditing:
 Overhead Rate (OH) 1.5435
 Complexity Factor (R) 0.000
 Calendar Days 730

Method of Compensation:

- 14.5%[DL + R(DL) + OH(DL) + IHDC]
 14.5%[DL + R(DL) + 1.5(DL) + IHDC]
 14.5%[(2.3 + R)DL + IHDC]
 Specific Rate
 Lump Sum

See Exhibit A-1 for Scope of Services

See Exhibit A-2 for a detailed workhour estimate.

See Exhibit A-3 for detailed Services by Others and In-House Direct Costs.

Cost Estimate of Consultant's Services in Dollars

Element of Work	Employee Classification	Man-hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House Direct Costs (IHDC)	Profit	Total
Early Coordination and Data Collection	Project Manager	18	\$ 49.21	\$ 885.78	\$ 1,367.20	\$ 16,796.00	\$ 220.00	\$ -	\$ 17,016.00
	Project Engineer	32	\$ 33.05	\$ 1,057.60	\$ 1,632.41			\$ 326.68	\$ 2,579.66
	Design Engineer	30	\$ 34.00	\$ 1,020.00	\$ 1,574.37			\$ 390.05	\$ 3,080.06
	Structural Engineer	0	\$ 40.83	\$ -	\$ -			\$ 376.18	\$ 2,970.55
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -			\$ -	\$ -
	Design Technician	14	\$ 36.25	\$ 507.50	\$ 783.33			\$ 187.17	\$ 1,478.00
QA/QC	0	\$ 63.00	\$ -	\$ -			\$ -	\$ -	
Bike Path Design, Engineering and Specifications	Project Manager	78	\$ 49.21	\$ 3,838.38	\$ 5,924.54	\$ -	\$ -	\$ 1,415.62	\$ 11,178.54
	Project Engineer	108	\$ 33.05	\$ 3,569.40	\$ 5,509.37			\$ 1,316.42	\$ 10,395.19
	Design Engineer	140	\$ 34.00	\$ 4,760.00	\$ 7,347.06			\$ 1,755.52	\$ 13,862.58
	Structural Engineer	0	\$ 40.83	\$ -	\$ -			\$ -	\$ -
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -			\$ -	\$ -
	Design Technician	114	\$ 36.25	\$ 4,132.50	\$ 6,378.51			\$ 1,524.10	\$ 12,035.11
QA/QC	14	\$ 63.00	\$ 882.00	\$ 1,361.37		\$ 32,303.35	\$ 6,100.00	\$ 325.29	\$ 2,568.66
Right-of-Way Documents and Coordination	Project Manager	9	\$ 49.21	\$ 442.89	\$ 683.60			\$ 884.50	\$ 39,287.85
	Project Engineer	13	\$ 33.05	\$ 429.65	\$ 663.16			\$ 163.34	\$ 1,289.83
	Design Engineer	8	\$ 34.00	\$ 272.00	\$ 419.83			\$ 158.46	\$ 1,251.27
	Structural Engineer	0	\$ 40.83	\$ -	\$ -			\$ 100.32	\$ 792.15
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -			\$ -	\$ -
	Design Technician	12	\$ 36.25	\$ 435.00	\$ 671.42			\$ 160.43	\$ 1,286.85
QA/QC	3	\$ 63.00	\$ 189.00	\$ 291.72			\$ 69.70	\$ 550.43	

Cost Estimate of Consultant's Services in Dollars

Element of Work	Employee Classification	Man-hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House Direct Costs (IHDC)	Profit	Total	
Traffic Signal Design, Engineering and Specifications	Project Manager	0	\$ 49.21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Project Engineer	0	\$ 33.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Design Engineer	0	\$ 34.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Structural Engineer	0	\$ 40.83	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Traffic Engineer	84	\$ 41.25	\$ 3,465.00	\$ 5,348.23	\$ -	\$ -	\$ 1,277.92	\$ 10,091.15	
	Design Technician	0	\$ 36.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	QA/QC	0	\$ 63.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Retaining Wall Design, Engineering and Specifications	Project Manager	0	\$ 49.21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Project Engineer	0	\$ 33.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Design Engineer	0	\$ 34.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Project Administration, Coordination and Permits	Structural Engineer	131	\$ 40.83	\$ 5,348.73	\$ 8,255.76	\$ -	\$ -	\$ 1,972.65	\$ 15,577.15	
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Design Technician	58	\$ 36.25	\$ 2,102.50	\$ 3,245.21	\$ -	\$ -	\$ 775.42	\$ 6,123.13	
	QA/QC	0	\$ 63.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Project Manager	23	\$ 49.21	\$ 1,131.83	\$ 1,746.98	\$ -	\$ 15,939.98	\$ 2,311.30	\$ 18,251.28	
	Project Engineer	24	\$ 33.05	\$ 793.20	\$ 1,224.30	\$ -	\$ -	\$ 417.43	\$ 3,296.24	
Construction Assistance	Design Engineer	32	\$ 34.00	\$ 1,088.00	\$ 1,679.33	\$ -	\$ -	\$ 292.54	\$ 2,310.04	
	Structural Engineer	0	\$ 40.83	\$ -	\$ -	\$ -	\$ -	\$ 401.26	\$ 3,168.59	
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Design Technician	16	\$ 36.25	\$ 580.00	\$ 895.23	\$ -	\$ -	\$ 213.91	\$ 1,689.14	
	QA/QC	0	\$ 63.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Project Manager	4	\$ 49.21	\$ 196.84	\$ 303.82	\$ -	\$ -	\$ -	\$ -	
	Project Engineer	8	\$ 33.05	\$ 264.40	\$ 408.10	\$ -	\$ -	\$ 72.60	\$ 573.26	
	Design Engineer	4	\$ 34.00	\$ 136.00	\$ 209.92	\$ -	\$ -	\$ 97.51	\$ 770.01	
	Structural Engineer	0	\$ 40.83	\$ -	\$ -	\$ -	\$ -	\$ 50.16	\$ 396.07	
	Traffic Engineer	0	\$ 41.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Totals	Design Technician	0	\$ 36.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	QA/QC	2	\$ 63.00	\$ 126.00	\$ 194.48	\$ -	\$ -	\$ 46.47	\$ 366.95	
		979		\$ 37,654.20	\$ 58,119.26	\$ 49,099.35	\$ 22,259.98	\$ 17,082.95	\$ 184,215.73	



Washington Street Bike Path – Atkinson Road to Lancer Lane
 Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A2: Work Hour Estimate

Route: Washington Street Bike Path
 Local Agency: County of Lake
 Section: 09-00135-11-BT
 Project: CMM-9003(560)
 Job No.: D-91-326-10

Work Code	Item No.	Task	Personnel & Hours						Total Hours	% of Hours		
			Project Manager	Project Engineer	Design Engineer	Structural Engineer	Traffic Engineer	Design Technician			QA/QC	
001	1	Early Coordination and Data Collection										
		A. Initial Meeting with County.	4	4						8	8.5%	
		B. Obtain/Update and Review Record Data		4	4					8	8.5%	
		C. Preliminary Utility Company Coordination		4	12			4		20	21.3%	
		D. Supplemental Survey (by Jorgensen and Associates) coordination only	2	4	2					12	12.8%	
		E. Supplemental Soils Exploration (by Midland Standard Eng. & Testing) coordination only	2	4	2					8	8.5%	
		F. Supplemental Wetland and Envir. Sciences (by Cardio Entra) coordination only	2	4	2					12	12.8%	
		G. Perform project field check survey/reconnaissance and prepare a photolog.	6	6	6					18	19.1%	
		H. Joint meeting with IDOT and County and update Job Number Request Form	2	2	2					6	6.3%	
			2	2	2					6	6.3%	
			18	32	30	0	0	14	0	94	100.0%	
				Sub-total Item 1								
		002	2	Bike Path Design, Engineering and Specification:								
Preliminary Engineering (65%)												
A. Plan Base Sheet Preparation.	2			4	4			24		24	5.3%	
B. Review and Confirm Project Right-of-Way Requirements	1			4	4					10	2.2%	
C. Drainage Design	1			4	4					9	2.0%	
Develop watershed divides and identify drainage features.												
Determine base floodplain elevations and encroachments.												
Investigate compensatory storage areas. (If required amount is greater than what is outlined in the agreement between LCDOT and LCFPD).	1			2	2					5	1.1%	
Develop Proposed Drainage Plan.	2			4	8					14	3.1%	
D. Bike Path Plans												
Cover Sheet and Index of Sheets (1 sheet)	1			2	1			2		6	1.3%	
General Notes and List of State and Local Standards (2 sheet)	1			2	4			4		10	2.2%	
Typical Sections (1 sheet)	1			2	4			2		9	2.0%	
Erosion Control and Landscaping (3 sheets)	1			4	6			8		19	4.2%	
Bike Path Plan and Profile 1"=20' (7 sheets)	8			12	24			16		60	13.2%	
Cross Sections (12 sheets) 1"=5' H.V.	8			8	16			12		42	9.3%	
E. Preliminary Design Review Meeting	3			3						9	2.0%	
F. Preliminary Soils Design Review Meeting	3			3						9	2.0%	
PreFinal (90%) Plans, Special Provisions and Estimates												
A. Bike Path Plans												
Cover Sheet and Index of Sheets (1 sheet)				1	1			2		4	0.9%	
General Notes and List of State and Local Standards (2 sheet)				1	2			2		5	1.1%	
Summary of Quantities (2 sheets)										0	0.0%	
Schedule of Quantities (4 sheets)										0	0.0%	
Alignment, Ties and Benchmarks (1 sheets) 1"=100'										0	0.0%	
Typical Sections (1 sheets)	1			2	4			2		9	2.0%	
Erosion Control and Landscaping (3 sheets) 1"=50'	1			4	6			4		15	3.3%	
Bike Path Plan and Profile – dual lanes w/ utilities (7 sheets) 1"=20'	4	6	12			12		34	7.5%			
Cross Sections - 50' interval (12 sheets) 1"=5' H.V.	3	4	12			8		27	5.9%			
Construction Details (2 sheets)	1	2	4			4		11	2.4%			
B. Pre-Final Special Provisions	3	6	1			1		10	2.2%			
C. Pre-Final Quantity Calculations	2	4	4			6		16	3.5%			
D. Pre-Final Estimates of Cost and Construction Time	2	2	4					8	1.8%			
E. Pre-Final QA/QC Review	6	4	4				4	18	4.0%			
F. Pre-Final Project Review Meeting	4	4	4					12	2.6%			
Final (100%) Plans, Special Provisions and Estimates												
A. Final Plans (100%)	8							8	1.8%			
B. Final Special Provisions	3	6	1					10	2.2%			
C. Final Quantity Calculations	2	4	4			6		16	3.5%			
D. Final Estimates of Cost and Construction Time	2	2	4					8	1.8%			
E. Final QA/QC Review	6	4	4				4	18	4.0%			
	78	108	140	0	0	114	14	454	100.0%			
		Sub-total Item 2										



Washington Street Bike Path – Atkinson Road to Lancer Lane
 Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A2: Work Hour Estimate

Work Code	Item No.	Task	Personnel & Hours						Total Hours	% of Hours
			Project Manager	Project Engineer	Design Engineer	Structural Engineer	Traffic Engineer	Design Technician		
003	3	Right-of-Way Documents and Coordinator								
		A. Subconsultant coordination with Jorgensen & Assoc. and Santacruz Assoc.	2	4	2				2	4.4%
		B. Confirmation of right-of-way acquisition and grading easement limits.	2	6	6		12		26	57.8%
		C. Prepare right-of-way exhibits, and plan coordination through property negotiations.	3	3					3	20.0%
		D. Right-of-Way coordination meetings.	9	13	8	0	0	12	3	100.0%
		Sub-total Item 3								
004	4	Traffic Signal Design, Engineering and Specification:								
		Pre-Final (90%) Plans, Special Provisions and Estimates								
		A. Signal Plans					24		24	28.6%
		Traffic Signal Modification Plan (1 sheet)					12		12	14.3%
		Traffic Signal Cable Plan (1 sheet)					1		1	1.2%
		Mastarm Mounted Street Name Sign Sheet (1 sheet)					1		1	1.2%
		LCDOT Video Detail (1 sheet)					2		2	2.4%
		IDOT Traffic Signal Details (6 sheets)					2		2	2.4%
		B. Pre-Final Special Provisions					12		12	14.3%
		C. Pre-Final Quantity Calculations					2		2	2.4%
		D. Pre-Final Estimates of Cost and Construction Time					4		4	4.8%
		E. Pre-Final QA/QC Review					4		4	4.8%
		F. Pre-Final Project Review Meeting					4		4	4.8%
		Final (100%) Plans, Special Provisions and Estimates					12		12	14.3%
		A. Final Plans (100%)					1		1	1.2%
	B. Final Special Provisions					4		4	4.8%	
	C. Final Quantity Calculations					1		1	1.2%	
	D. Final Estimates of Cost and Construction Time					2		2	2.4%	
	E. Final QA/QC Review					84		84	100.0%	
		Sub-total Item 4								
005	5	Retaining Wall Design, Engineering and Specification:								
		Pre-Final (90%) Plans, Special Provisions and Estimates								
		A. Wall Plans					24		24	21.2%
		General Plan, Elevation, Data and Total Bill of Material (1 sheet)					48		48	38.1%
		Wall Details (3 sheets)					16		16	10.6%
		Railing Details (1 sheet)					2		2	2.1%
		Soil Boring Log (2 sheets)					4		4	2.1%
		B. Pre-Final Special Provisions					4		4	2.1%
		C. Pre-Final Quantity Calculations					2		2	1.1%
		D. Pre-Final Estimates of Cost and Construction Time					4		4	2.1%
		E. Pre-Final QA/QC Review					4		4	2.1%
		F. Pre-Final Project Review Meeting					4		4	2.1%
		Final (100%) Plans, Special Provisions and Estimates					16		16	14.8%
		A. Final Plans (100%)					2		2	1.1%
		B. Final Special Provisions					2		2	1.1%
		C. Final Quantity Calculations					1		1	0.5%
		D. Final Estimates of Cost and Construction Time					2		2	1.1%
		E. Final QA/QC Review					131		131	100.0%
		Sub-total Item 5								
006	6	Project Administration, Coordination and Permit:								
		A. Project Administration w/ monthly invoicing, status reports & schedule monitor	12						12	12.6%
		B. Project Submittals	4	8	6				24	25.3%
		C. Utility Company Coordination	2	8	12				28	29.5%
		D. Lake County Stormwater Management Commission Permitting and Documentation	2	4	8				18	18.9%
		E. INPDES Permitting and Documentation	1	2	4				7	7.4%
		F. Pre-Construction Meeting Attendance	2	2	2				6	6.3%
		Sub-total Item 6								
007	7	Construction Assistance								
		A. Construction Shop Drawing Review	2	4	2				9	50.0%
		B. Construction Review and Meeting Attendance	2	4	2				9	50.0%
		Sub-total Item 7								
		Total Hours:	132	185	214	131	84	214	979	
		% of Hours:	13.5%	18.9%	21.9%	13.4%	8.6%	21.9%	100.0%	

Washington Street Bike Path – Atkinson Road to Lancer Lane
Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A3: Direct Costs

Route: Washington Street Bike Path
 Local Agency: County of Lake
 Section: 09-00135-11-BT
 Project: CMM-9003(560)
 Job No: D-91-326-10

				Direct Cost	Subconsultant Expense
Item 1 Agency Coordination					
Mileage					
	6	trips @ LCDOT	60 miles @	\$0.550	\$198.00
	2	trips @ LCDOT	20 miles @	\$0.550	\$22.00
Item 2 Topographical Survey					
Subconsultant Expense - Jorgensen & Associates, Inc.					\$21,903.35
See Exhibit A7: Subconsultant Qualifications					
Item 3 Geotechnical Study					
Subconsultant Expense - Midland Standard Engineering & Testing, Inc.					\$5,120.00
See Exhibit A7: Subconsultant Qualifications					
Item 4 Wetlands and Environmental Studies					
Subconsultant Expense - Cardno ENTRIX, Inc.					\$11,676.00
See Exhibit A7: Subconsultant Qualifications					
Item 5 Right-of-Way Appraisals, Review, and Negotiations					
Appraisals					
In-House (Civiltech Services)	1	parcels @	\$2,500.00 ea.	\$2,500.00	
	3	parcels @	\$1,200.00 ea.	\$3,600.00	
Reviews					
Subconsultant Expense - "T" Engineering Services, Ltd.					\$600.00
See Exhibit A7: Subconsultant Qualifications					
Negotiations					
Subconsultant Expense - Santacruz Associates "T" Engineering Services, Ltd.					\$9,800.00
See Exhibit A7: Subconsultant Qualifications					
Item 6 Project Deliverables, Reproduction, Postage, and Permitting					
Mileage (Deliverables)					
	8	trips @	60 miles @	\$0.550	\$264.00
	2	trips @	20 miles @	\$0.550	\$22.00
Reproduction (Plan Sets and Project Specification Books)					
	53	sheets @	Pre-Final (6 full size)	\$0.78	\$248.04
	53	sheets @	Pre-Final (24 half size)	\$0.24	\$305.28
	8	books @	Pre-Final	\$30.00	\$240.00
	53	sheets @	Final (3 full size)	\$0.78	\$124.02
	53	sheets @	Final (12 half size)	\$0.24	\$152.64
	6	books @	Final	\$30.00	\$180.00
Postage					
	24	packages @	Overnight/Shipping	\$23.50	\$564.00
Permitting (Lake County Stormwater Management Commission)					
	1	PJD thru LCSMC		\$1,800.00	\$1,800.00
	1	wetland mitigation	0.054 acres @	\$110,000.00	\$5,940.00
	1	WDO Permit thru LCSMC		\$6,100.00	\$6,100.00
TOTAL:				\$22,259.98	\$49,099.35

Washington Street Bike Path – Atkinson Road to Lancer Lane
Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A4: Employee Classifications with Hourly Rates

Principal (\$45 - \$70)	Average Hourly Rate:	\$ 70.00
John L. Breitsameter, P.E.	10/10/1988	\$70.00
Gary P. Overbay, P.E.	10/10/1988	\$70.00
Robert J. Andres, P.E., PTOE	12/19/1988	\$70.00
Senior Project Manager(\$45 - \$70)	Average Hourly Rate:	\$66.50
John L. Breitsameter, P.E.	10/10/1988	\$70.00
Gary P. Overbay, P.E.	10/10/1988	\$70.00
Robert J. Andres, P.E., PTOE	12/19/1988	\$70.00
Mary L. Young, P.E., PTOE	06/03/1991	\$63.00
Jonathan R. Vana, P.E.	05/31/1994	\$63.00
James D. Ewers, P.E.	01/03/2005	\$63.00
Project Manager (\$40 - \$70)	Average Hourly Rate:	\$49.21
Gary A. Blazek, P.E.	08/11/2008	\$62.00
Mary L. Young, P.E., PTOE	06/03/1991	\$63.00
Derek N. Mall, P.E.	06/08/1992	\$45.00
Jonathan R. Vana, P.E.	05/31/1994	\$63.00
James R. Woods, P.E.	06/09/1997	\$41.25
David J. Kreeger, P.E.	06/08/1998	\$45.75
Reid T. Magner, P.E.	03/29/1999	\$45.25
Joel E. Christell, P.E.	06/07/1999	\$40.25
Jennifer L. Killen, P.E., PTOE	06/14/1999	\$42.00
Joseph J. Emry, III, P.E.	06/14/1999	\$41.25
Michael J. Folkening, P.E., PTOE	08/09/1999	\$60.00
Sven D. Zimdahl, P.E.	07/10/2000	\$41.75
Chief Structural Engineer (\$45 - \$70)	Average Hourly Rate:	\$62.00
Gregory J. Hatlestad, P.E., S.E.	06/18/2007	\$62.00
Structural Engineer (\$25 - \$50)	Average Hourly Rate:	\$32.10
Melissa F. Lange, P.E., S.E.	09/03/1999	\$42.80
Daniel L. Atkins	05/18/2009	\$27.25
Katelyn L. Bochnowski	05/31/2011	\$26.25
Project Coordinator (\$35 - \$60)	Average Hourly Rate:	\$56.00
Peter M. Layer	11/14/1988	\$56.00
Resident Engineer (\$35 - \$65)	Average Hourly Rate:	\$43.72
Donald J. Marek	04/03/1989	\$43.95
Martin F. Ebert	06/21/1989	\$46.45
Brian J. Carroll, P.E.	05/18/1998	\$41.95
Edward M. Bartolameolli, P.E.	04/04/1994	\$35.00
Jeffery S. Lange, P.E.	06/22/1998	\$45.25
Arthur F. Politowicz, P.G.	07/22/1996	\$40.90
John F. Harchut	06/29/1998	\$41.85
David M. Bugaj	09/14/1998	\$44.80
Mateen M. Baig	03/26/1999	\$42.15
Joseph C. Kozial, P.E.	05/14/2001	\$42.05
Hugh Gilgunn, P.E.	04/05/2004	\$37.25
James D. Ewers, P.E.	01/03/2005	\$63.00

Washington Street Bike Path – Atkinson Road to Lancer Lane
Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A4: Employee Classifications with Hourly Rates

Senior Project Engineer (\$35 - \$45)	Average Hourly Rate:	\$38.15
Kristen E. Hahn, P.E., PTOE	05/17/2000	\$39.50
Steven A. Pautsch, P.E., PTOE	06/04/2001	\$40.00
Kristin R. Kalitowski, P.E.	05/28/2002	\$36.75
Brian R. DeSalle, P.E., PTOE	06/03/2002	\$35.00
Kenneth W. Hodgen, P.E.	05/11/2009	\$39.50
Project Engineer (\$29 - \$38)	Average Hourly Rate:	\$33.05
Shirley J. Choi, P.E.	05/19/1997	\$33.25
Christopher S. Wolff, P.E.	06/01/2002	\$34.75
Elizabeth A. Daly, P.E.	10/24/2006	\$36.00
Joshua S. Harris, P.E.	06/18/2007	\$30.25
Brian A. Sroufe, P.E.	06/25/2007	\$31.00
Field Engineer/Technician (\$20 - \$35)	Average Hourly Rate:	\$29.93
John M. Kerivan III	11/29/1993	\$32.95
Brent E. Giesen, P.E.	05/24/2004	\$33.75
Andy F. Garb, P.E.	05/16/2007	\$29.40
Phillip J. Hurst, P.E.	01/16/2006	\$29.90
Clifton V. Ganek	06/05/2006	\$29.95
John P. Vogelmann, P.E.	05/30/2006	\$30.20
Michael R. Lubicky	04/18/2006	\$23.35
Jeffrey S. Vaughn	03/19/2008	\$31.75
Jason M. May	05/19/2008	\$28.10
Surveyor (\$20 - \$35)	Average Hourly Rate:	\$33.40
Denise C. Rolando	08/21/2003	\$33.40
Design Engineer II (\$27 - \$33)	Average Hourly Rate:	\$29.75
Jeffrey S. Maczko, P.E.	01/16/2006	\$31.00
Mark J. Piasecki, P.E.	07/05/2006	\$31.00
Brandon J. Bogenschutz, P.E.	06/04/2007	\$30.25
Daniel T. Echols	06/04/2007	\$29.50
Christopher T. Braband	05/27/2008	\$29.00
Stephanie A. Cannizzaro	06/11/2008	\$29.00
Jeffrey A. Tomasek, P.E.	06/07/2008	\$29.00
Michael F. Barbier	01/17/2011	\$29.25
Design Engineer I (\$25 - \$30)	Average Hourly Rate:	\$26.11
Petro Kravets	05/12/2008	\$28.50
Eric D. Schmidt	06/02/2008	\$28.00
James R. Tibble	05/16/2011	\$26.00
Matthew C. Sokolowski	06/06/2011	\$25.50
Jeremy R. Stull	07/18/2011	\$25.00
Stephen Wong	10/10/2011	\$25.00
Stacey K. Lindeman	11/07/2011	\$25.00
Jennifer M. Brown	11/14/2011	\$27.00
Janina E. Stojak	01/03/2012	\$25.00
Senior Design Technician (\$25 - \$40)	Average Hourly Rate:	\$36.25
Grant R. Rich	10/24/1988	\$38.00
John R. Rosak	06/17/1998	\$35.50
Alan R. Anderson	11/25/2002	\$35.25
Design Technician (\$18 - \$28)	Average Hourly Rate:	\$25.00
Omar De Jesus Tobon	08/06/2001	\$25.00

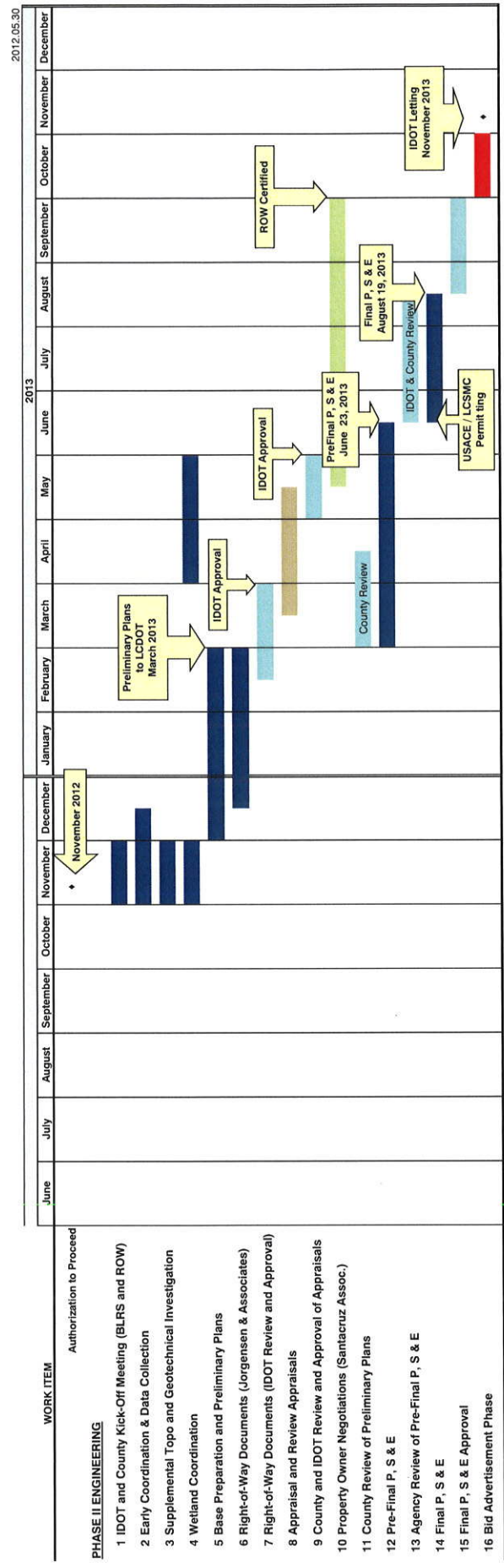
Exhibit A4: Employee Classifications with Hourly Rates

Director of Valuation Services (\$45 - \$70) David W. White	Average Hourly Rate: 09/03/2002	\$70.00 \$70.00
Appraiser (\$15 - \$30) Mary E. White Kelsey G. White	Average Hourly Rate: 11/02/2009 10/17/2011	\$22.38 \$25.75 \$19.00
Manager of IT Services (\$30 - \$55) Mark Evinger	Average Hourly Rate: 06/09/2008	\$43.00 \$43.00
CAD Manager (\$30 - \$45) Adam K. Wuellner	Average Hourly Rate: 12/02/1996	\$37.00 \$37.00
Assistant Network Administrator (\$20 - \$35) Christopher T. Hoube	Average Hourly Rate: 05/01/2001	\$29.00 \$29.00
Director of Finance (\$45 - \$60) Robert D. Atchison	Average Hourly Rate: 09/16/2002	\$60.00 \$60.00
General Accountant (\$25 - \$45) Jane M. Zielinski	Average Hourly Rate: 11/14/1988	\$42.75 \$42.75
Accounting Assistant (\$15 - \$30) Cindy M. Ladd	Average Hourly Rate: 02/23/2000	\$28.10 \$28.10
Director of Human Resources (\$40 - \$55) Kyle E. Mishler	Average Hourly Rate: 06/07/1999	\$50.00 \$50.00
Marketing Coordinator (\$20 - \$35) Meredith R. Leifheit	Average Hourly Rate: 12/13/2010	\$28.00 \$28.00
Graphic Designer (\$20 - \$35) Eric P. Hodek	Average Hourly Rate: 11/15/2010	\$27.00 \$27.00
Administrative Assistant (\$13 - \$26) Theresa M. Bratanch Adrienne S. Hogan	Average Hourly Rate: 09/02/2003 10/25/2004	\$17.85 \$18.55 \$17.15



Washington Street Bike Path – Atkinson Road to Lancer Lane
 Section No.: 09-00135-11-BT | Project No.: CMM-9003(560) | Job No.: D-91-326-10

Exhibit A5: Schedule



- ◆ Indicates Project Milestone (November 2013 Letting)
- Indicates Consultant Work Time
- Indicates Appraisal Work Time
- Indicates Agency Review Time
- Indicates Land Negotiation Time
- Advertisement and Bidding Phase

Subconsultant Qualifications

Jorgensen & Associates, Inc.



JORGENSEN & ASSOCIATES, INC.
CONSTRUCTION and LAND SURVEYORS
Est. 1990

May 29, 2012

Mr. Reid T. Magner, P.E.
Civiltech Engineering, Inc.
450 East Devon Avenue
Suite 300
Itasca, Illinois 60143

Re: Washington Street Bike Path Survey Proposal

Dear Mr. Magner:

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

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to continuing our working relationship with your firm. 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:\CiviltedLake\WashingtonStSupplemental\LTR

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "A"

Hourly Rate Range - Consultant's Regular Staff

<u>Classification</u>	<u>From</u>	<u>To</u>
Principal, Manager, P.L.S.	40.00	42.00
Supervisor, Project Surveyor	38.00	40.00
Cadd Supervisor, Survey Party Chief, S.I.T., Survey Party Chief	21.50	27.50
Instrument Operator, Cadd Operator, assignable Clerical and Secretarial Labor	14.00	19.00

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "B"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.27%
State Unemployment Compensation _____	0.89%
Federal Unemployment Compensation _____	0.20%
Workmen's Compensation Insurance _____	1.59%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	10.85%
Bonus _____	4.55%
Pension _____	0.67%
Group Insurance _____	25.81%
Total Payroll Burden & Fringe Costs	55.83%

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "C"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.54%
Depreciation _____	12.69%
Indirect wages and salaries _____	37.59%
Reproductive and printing costs _____	0.06%
Office Supplies _____	2.69%
Computer Costs _____	0.16%
Professional Fees _____	1.33%
Telephone _____	1.63%
Fees, license & dues _____	1.08%
Repairs and maintenance _____	0.44%
Business space rent _____	4.11%
Facilities - capital _____	1.05%
Recruiting _____	0.01%
Survey Supplies _____	3.14%
Automobile/travel expense _____	1.96%
Equipment Rental _____	0.77%
Miscellaneous Expense _____	0.62%
State Income Tax _____	0.45%
Postage _____	0.24%
Total Overhead	74.56%

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "D"

Classification Types & Rates

Sheet 1 of 2

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

Classification Rates used for Calculation of Fee

A. Principal/Officer	\$ 42.00
B. Supervisor, P.L.S.	\$ 40.00
C. Survey Party Chief, S.I.T.....	\$ 22.00
D. Instrument Operator	\$ 18.00
E. Cadd Supervisor	\$ 27.50

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "D"

Average Hourly Rate Calculation

Sheet 2 of 2

Principal/Officer	2 hours @ \$42.00/hour	=	\$ 84.00
Supervisor, P.L.S.	2 hours @ \$40.00/hour	=	\$ 80.00
Survey Party Chief, S.I.T.	8 hours @ \$22.00/hour	=	\$ 176.00
Instrument Operator	8 hours @ \$18.00/hour	=	\$ 144.00
Cadd Supervisor	<u>8 hours @ \$27.50/hour</u>	=	<u>\$ 220.00</u>
	28 hours		\$ 704.00

$$\text{Average Hourly Rate} = \frac{\$704.00}{28} = \$25.14/\text{hour}$$

Route: Washington Street
 Section: Atkinson Road to Lancer Lane
 Project: Lake
 County: Lake
 Job No.:

COST ESTIMATE OF CONSULTANT'S SERVICES

Consultant: Jorgensen & Associates, Inc.
 Date: May 29, 2012
 Description: Supplemental Topographic Survey
 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) Field - Supplemental Topographic Survey	16	\$320.00	\$417.25	\$7.15	\$744.40	\$107.76	N/A	\$852.15	44.64%
2) Office - Compile Field Data	2	\$55.00	\$71.71	\$0.00	\$126.71	\$18.34	N/A	\$145.06	7.60%
3) Office - Create Existing Topography Base Sheets	5	\$150.00	\$195.59	\$0.00	\$345.59	\$50.03	N/A	\$395.61	20.72%
4) Office - Create T.I.N. & Contours	3	\$95.00	\$123.87	\$0.00	\$218.87	\$31.68	N/A	\$250.55	13.12%
5) Coordination Meetings	2	\$84.00	\$109.53	\$38.50	\$232.03	\$33.60	N/A	\$265.62	13.91%
TOTALS	28	\$704.00	\$917.95	\$45.65	\$1,667.60	\$241.40	\$0.00	\$1,909.00	100.00%

Route: Washington Street
 Section: Atkinson Road to Lancer Lane
 County: Lake
 Job No.:

**Manhour Breakdown
 Supplemental Topographic Survey Estimate**

Washington Street	+	3,400'	=	<u>0.644 mile</u>
Total Length	±	3,400'	=	0.644 mile

1. Field – Supplemental Topographic Survey

a. Locate existing supplemental topography 8 hours x 2 men =	16 MH
-----------------------------------------------------------------	-------

2. Office - Compile Field Data

a. Edit & compile topographic survey 2 hours x 1 man =	2 MH
-----------------------------------------------------------	------

3. Office - Create Existing Topography Base Sheets

a. Layout and drafting 4 hours x 1 man =	4 MH
---------------------------------------------	------

b. Check topographic survey 1 hour x 1 man =	<u>1 MH</u>
-------------------------------------------------	-------------

Sub-total Item #3	5 MH
-------------------	------

4. Office - Create T.I.N. & Contours

a. Compute contours 2 hours x 1 man =	2 MH
------------------------------------------	------

b. Check contours 1 hour x 1 man =	<u>1 MH</u>
---------------------------------------	-------------

Sub-total Item #4	3 MH
-------------------	------

5. Coordination Meetings
1 meeting @ 2 hours =

2 MH

Total All Items 28 MH

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Manhour Breakdown By Item

<u>Item</u>	<u>Classification</u>	<u>Manhours</u>
1. Field – Supplemental Topography Survey	Survey Party Chief, S.I.T. Instrument Operator	8 8
2. Office - Compile Field Data	Cadd Supervisor.	2
3. Office – Create Existing Topography Base Sheets	Supervisor, P.L.S. Cadd Supervisor	1 4
4. Office - Create T.I.N. and Contours	Supervisor, P.L.S. Cadd Supervisor	1 2
5. Coordination Meetings	Principal/Officer	2

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

1. Field - Topographic Survey

a. Trips to project site - 1 ea.
± 13 miles/trip x 1 trip = ± 13 miles
± 13 miles @ \$0.55/mile = \$ 7.15

5. Coordination Meetings

a. Meetings at Civiltech's office - 1 ea.
± 70 miles/trip x 1 trip = ± 70 miles
± 70 miles @ \$0.55/mile = \$ 38.50

Total All Items \$ 45.65

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "D"

Classification Types & Rates

Sheet 1 of 2

- A. Principal/Officer
- B. Supervisor, P.L.S.
- C. Survey Party Chief, S.I.T.
- D. Instrument Operator
- E. Cadd Supervisor
- F. Secretarial

Classification Rates used for Calculation of Fee

A. Principal/Officer	\$ 42.00
B. Supervisor, P.L.S.	\$ 40.00
C. Survey Party Chief, S.I.T.	\$ 22.00
D. Instrument Operator	\$ 18.00
E. Cadd Supervisor	\$ 27.50
F. Secretarial	\$ 17.00

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

Exhibit "D"

Average Hourly Rate Calculation

Sheet 2 of 2

Principal/Officer	2 hours @ \$42.00/hour	=	\$ 84.00
Supervisor, P.L.S.	53 hours @ \$40.00/hour	=	\$ 2,120.00
Survey Party Chief, S.I.T.	64 hours @ \$22.00/hour	=	\$ 1,408.00
Instrument Operator	64 hours @ \$18.00/hour	=	\$ 1,152.00
Cadd Supervisor	79 hours @ \$27.50/hour	=	\$ 2,172.50
Secretarial	<u>4 hours @ \$17.00/hour</u>	=	<u>\$ 68.00</u>
	266 hours		\$ 7,004.50

$$\text{Average Hourly Rate} = \frac{\$7,004.50}{266} = \$26.33/\text{hour}$$

Route: Washington Street
 Section: Atkinson Road to Lancer Lane
 Project: Lake
 County: Lake
 Job No.:

COST ESTIMATE OF CONSULTANT'S SERVICES

Consultant: Jorgensen & Associates, Inc.
 Date: May 29, 2012
 No. of Parcels: 3
 Cost Plus Fixed Fee = 14.5% [(2.3 + R)DL + 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		Percent of Grand Total
							Others	Total	
1) Pre-Survey Phase	3	\$72.00	\$93.88	\$46.50	\$212.38	\$30.75	\$1,280.00	\$1,523.14	7.62%
2) Survey Reconnaissance	4	\$80.00	\$104.31	\$0.00	\$184.31	\$26.68	N/A	\$210.99	1.06%
3) Project Survey Plan	2	\$55.00	\$71.71	\$0.00	\$126.71	\$18.34	N/A	\$145.06	0.73%
4) First Submittal Plat of Highways and Descriptions	93	\$2,932.50	\$3,823.69	\$35.00	\$6,791.19	\$983.06	N/A	\$7,774.25	38.88%
5) Survey (Field)	124	\$2,480.00	\$3,233.67	\$57.20	\$5,770.87	\$835.37	N/A	\$6,606.25	33.04%
6) Survey (Office)	23	\$870.00	\$1,134.39	\$0.00	\$2,004.39	\$290.15	N/A	\$2,294.54	11.48%
7) Final Submittal Plat of Highways and Descriptions	15	\$431.00	\$561.98	\$33.00	\$1,025.98	\$148.52	N/A	\$1,174.50	5.87%
8) Coordination Meetings	2	\$84.00	\$109.53	\$38.50	\$232.03	\$33.60	N/A	\$265.62	1.33%
TOTALS	266	\$7,004.50	\$9,133.17	\$210.20	\$16,347.87	\$2,366.48	\$1,280.00	\$19,994.35	100.00%

4.	First Submittal Plat of Highways & Descriptions		
a.	Ownership info)	
)	
b.	Total holding boundaries)	
)	
c.	Total holding area listing)	2 MH
)	
d.	Private survey info)	
)	
e.	Deed calculated closures)	
f.	Layout and drafting	$\pm 800/\text{sht.} \pm 4 \text{ sheets}$ $12 \text{ hrs./sheet} \times 4 =$	48 MH
	Total Holding sheets – 2 sheets		
	4 hrs./sheet x 2 =		8 MH
	Alignment & Tie sheets – 1 sheet		
	4 hrs./sheet x 1 =		4 MH
g.	Check plats		21 MH
h.	Legal descriptions	7 descriptions	7 MH
i.	Check legal descriptions		<u>3 MH</u>
		Sub-total Item #4	93 MH
5.	Survey (Field)		
a.	Center line alignments & ties		
	Washington Street $\pm 3,400'$ - 18 hrs. x 2 men =		36 MH
b.	Measure existing section lines		
	28 hours x 2 men =		56 MH
c.	Appraisal topography		
	2 hours x 2 men =		4 MH
d.	Monument & tie proposed right of way		
	14 hours x 2 men =		<u>28 MH</u>
		Sub-total Item #5	124 MH

6.	Survey (Office)	
a.	Compute traverse 3 hours x 1 man =	3 MH
b.	Compute existing property boundaries & subdivision lines 16 hours x 1 man =	16 MH
c.	Compile appraisal topography 1 hour x 1 man =	1 MH
d.	Compute center line alignments 2 hours x 1 man =	2 MH
e.	Compute proposed right of way & easements 1 hour x 1 man =	<u>1 MH</u>
	Sub-total Item #6	23 MH
7.	Final Submittal Plat of Highways & Descriptions	
a.	Final drafting ± 7 sheets 7 hours x 1 man =	7 MH
b.	Plat checking 2 hours x 1 man =	2 MH
c.	Final descriptions 7 descriptions	2 MH
d.	Check final descriptions	1 MH
e.	Assembly of final papers	<u>3 MH</u>
	Sub-total Item #7	15 MH
8.	Coordination Meetings	
	1 meeting @ 2 hours =	<u>2 MH</u>
	Total All Items	266 MH

Route: Washington Street
 Section: Atkinson Road to Lancer Lane
 County: Lake
 Job No.:

Manhour Breakdown By Item

<u>Item</u>	<u>Classification</u>	<u>Manhours</u>
1) Pre-Survey	Cadd Supervisor	2
	Secretarial	1
2) Survey Reconnaissance	Survey Party Chief, S.I.T.	2
	Instrument Operator	2
3) Project Survey Plan	Cadd Supervisor	2
4) First Submittal Plat of Highways	Supervisor, P.L.S.	30
	Cadd Supervisor	63
5) Survey (Field)	Survey Party Chief, S.I.T.	62
	Instrument Operator	62
6) Survey (Office)	Supervisor, P.L.S.	19
	Cadd Supervisor	4
7) Final Submittal Plat of Highways	Supervisor, P.L.S.	4
	Cadd Supervisor	8
	Secretarial	3
8) Coordination Meetings	Principal/Officer	2

Route: Washington Street
 Section: Atkinson Road to Lancer Lane
 County: Lake
 Job No.:

**Breakdown of
 In House Direct Costs**

Item

1. Pre-Survey Phase

a. Trip to Recorder's Office – 1 ea.
 $\pm 30 \text{ miles/trip} \times 1 \text{ trip} = \pm 30 \text{ miles}$
 $\pm 30 \text{ miles @ } \$0.55/\text{mile} =$ \$ 16.50

b. Subdivisions Records from Recorder's Office \$ 30.00

Sub-total Item #1 \$ 46.50

4. First Submittal Plat of Highways

a. Plat of Highways Mylars
 7 sheets @ \$5.00/sheet \$ 35.00

5. Survey (Field)

a. Trips to project site – 8 ea.
 $\pm 13 \text{ miles/trip} \times 8 \text{ trips} = \pm 104 \text{ miles}$
 $\pm 104 \text{ miles @ } \$0.55/\text{mile} =$ \$ 57.20

7. Final Submittal Plat of Highways

a. Deliver Final Papers to District One office
 $\pm 60 \text{ miles/trip} \times 1 \text{ trip} = \pm 60 \text{ miles}$
 $\pm 60 \text{ miles @ } \$0.55/\text{mile} =$ \$ 33.00

8. Coordination Meetings

a. Meetings at Civiltech's office – 1 ea.
 $\pm 70 \text{ miles/trip} \times 1 \text{ trip} = \pm 70 \text{ miles}$
 $\pm 70 \text{ miles @ } \$0.55/\text{mile} =$ \$ 38.50

Total All Items \$ 210.20

Route: Washington Street
Section: Atkinson Road to Lancer Lane
County: Lake
Job No.:

**Breakdown of
Services By Others**

Item

1. Pre-Survey Phase

a. Commitment for Title Insurance 4 Commitments @ \$320.00 each =	\$ 1,280.00
----------------------------------------------------------------------	-------------

Midland Standard Engineering & Testing, Inc.



www.mset.com

MIDLAND STANDARD ENGINEERING & TESTING, INC.

558 Plate Drive, Unit 6 East Dundee, Illinois
(847) 844-1895 f(847) 844-3875

May 30, 2012

Mr. Reid T. Magner, P. E.
Civiltech Engineering, Inc.
450 E. Devon Avenue, Suite 300
Itasca, Illinois 60143

Re: Proposal for Structure Geotechnical Report
Retaining Wall Extension
Washington Street at Mill Creek
Lake County, Illinois

Dear Mr. Magner:

We are pleased to have the opportunity to submit the following proposal to obtain samples and provide a geotechnical analysis and report for the proposed improvements.

Project Description and Scope of Work

The proposed project consists of the design and construction of a retaining wall extension for a bike path improvement. The current wall is located roughly at the south ROW line for Washington Street at the cross culvert for Mill Creek. Wall extensions are planned at both ends.

Method of Performance - Field Work

The subsurface soil exploration for the proposed improvements will be accomplished by performing three (3) soil borings to a depth of twenty-five (25) to thirty (30) feet below the existing ground surface. The soil borings will involve drilling test holes that incorporate standard penetration tests and split-spoon sampling at 2-1/2 to 5 foot intervals, in accordance with the current IDOT Geotechnical Manual.

Method of Performance - Analysis and Report

We propose to mobilize a drill rig to the site after notice to proceed, layout, and utility clearance. We will provide a Field Engineer at the site to layout the borings and during the drilling to observe the exploration, perform field tests and measurements, prepare field reports, and maintain contact with our office. In this way, the program can be adjusted as it progresses and more is known about the site. Results of our fieldwork and a preliminary analysis will be available as the work is completed. A formal report would be provided shortly thereafter.

Our testing program will include laboratory tests to determine the classification, strength, water content, and other physical properties of the soils. The results of our field exploration and lab tests will be used in the engineering analysis and the formulation of our recommendations. The report will include foundation recommendations for support of the proposed structures and soil related construction procedures. The results of our work will be presented in a written report, prepared by a Registered Professional Engineer. Three (3) copies of the report will be provided.

Fees

We propose to provide this work at the unit rates quoted on the attached Schedule of Services and Fees, Attachments 1.1 through 1.2. These estimated quantities and unit rates are based on information as outlined in this proposal and experience on past projects. On the basis of the above information, we estimate that these services can be provided for a fee of: **\$ 5,120.00**. We will not exceed this amount without your permission.

General

Our staff is acquainted with the local subsurface conditions and has participated in the planning, development and execution of numerous soil explorations in this area. We are looking forward to working with you on this project.

Respectfully Submitted,
MIDLAND STANDARD ENGINEERING & TESTING, INC.



William J. Wyzgala, P.E.
Principal Engineer

WJW

Enclosure: Attachments 1.1, 1.2, and General Conditions

**ATTACHMENT 1.1
SCHEDULE OF SERVICES AND FEES**

RETAINING WALL EXTENSION - WASHINGTON STREET AT MILL CREEK
LAKE COUNTY, ILLINOIS

<u>Item</u>	<u>Estimated Quantity</u>	<u>Unit Cost</u>	<u>Extention</u>
<u>Field Services</u>			
Mobilization of Drilling equipment, lump sum	1	\$500.00	\$500.00
Soil boring with soil sampling,/l.f.	80	\$19.00	\$1,520.00
Shelby Tube Sample, each	1	\$35.00	\$35.00
Traffic Control, Signs, Flagmen, per day		\$660.00	
		Field Services Total:	\$2,055.00
<u>Laboratory Services</u>			
Moisture Content Determinations, ea	35	\$6.00	\$210.00
Grain Size Analysis, Hydrometer, ea.	1	\$90.00	\$90.00
Atterberg Limit Test, ea.	1	\$80.00	\$80.00
		Laboratory Services Total:	\$380.00
<u>Engineering Services for Geotechnical Report Including:</u>			
Layout Coordination			
Utility Clearance and Permits			
Field Supervision During Drilling			
Preparation of Soil Boring Logs			
Analysis and Recommendations			
Report Preparation and Consultation			
		Estimated Cost (@ Unit Rates Listed on Attachment 1.2)	\$2,685.00
		TOTAL:	\$5,120.00

**ATTACHMENT 1.2
ENGINEERING SERVICES**

**RETAINING WALL EXTENSION - WASHINGTON STREET AT MILL CREEK
LAKE COUNTY, ILLINOIS**

Our fees for Engineering Services will be based on the actual number of hours required to complete the work, and will be determined on a Unit Rate Basis at these rates for each of classification personnel:

	<u>Estimated Quantity</u>	<u>Rate/Hour</u>	<u>Extension</u>
Principal Engineer, per hr.	1	\$155.00	\$155.00
Project Engineer, per hr.	4	\$125.00	\$500.00
Staff Engineer, per hr.	8	\$90.00	\$720.00
Field Engineer, per hr.	13	\$90.00	\$1,170.00
Technician, per hour		\$80.00	
Draftsman/Word Processing, per hr.	2	\$70.00	\$140.00
			<hr/>
			\$2,685.00

EFFECTIVE JANUARY, 2011

MIDLAND STANDARD ENGINEERING & TESTING, INC.

FEE AND RATE SCHEDULE GENERAL CONDITIONS

ENGINEERING AND ASSOCIATED SERVICES

Fees for our services will be based upon the time worked on the project at the following rates:

	Rate Per Hour
Project Engineer	
Project Mgr./Sr. Engineer, P.E.	
Project Engineer, P.E.	
Sr. Staff/Field Engineer	
Field Engineer	See attached
Eng. Technician	proposal
Sr. Technician	for rates
Technician	
CAD Draftsman	
Draftsman	
Word Processing	

OVERTIME RATES: Applicable to all classifications below Staff Eng. - O.T. Rates are 1.40 times straight time

WE RESERVE THE RIGHT TO SUSPEND OR TERMINATE WORK UNDER ORAL AGREEMENT UPON FAILURE OF THE CLIENT TO PAY INVOICES AS DUE.

INSURANCE

We maintain Workman's Compensation Insurance and Employer's Liability Insurance in conformance with state law. In addition, we maintain Comprehensive General Liability Insurance and Automobile Liability Insurance with bodily injury (limit \$1,000,000 each occurrence, \$1,000,000 aggregate) and property damage (limit \$1,000,000 each occurrence, \$1,000,000 aggregate).

Within the limits of said insurance, we agree to hold the client harmless from and against loss, damage, injury or liability arising directly from the negligent acts or omissions of ourselves, our employees, agents, subcontractors and their employees and agents. If the client placed greater responsibilities upon us or requires further insurance coverage, we if specifically so directed will take out additional insurance (if procurable) to protect us, at the clients' expense. But we shall not be responsible for property damage from any cause, including fire and explosion, beyond the amounts and coverage of our insurance.

REIMBURSABLE EXPENSES

The following items are reimbursable to the extent of actual expenses:

1. Transportation, lodging and subsistence for out of town travel
2. Long distance telephone, telegraph and cable charges.
3. Special mailings and shipping charges.
4. Special materials and equipment unique to the project.
5. Automobile travel on projects.
6. Computer charges.

LIMITATION OF PROFESSIONAL LIABILITY

The Client recognizes the inherent risks connected with construction. In performing our professional services, we will use that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of our profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the proposal for consulting service or by furnishing oral or written reports of the findings made. It is agreed that the Client will limit any and all liability, claim for damages, cost of defense or expenses to be levied against us on account of any design defect, error, omission, or professional negligence to a sum not to exceed \$50,000, or the amount of our fees, which ever is greater.

TEST BORINGS AND FIELD INVESTIGATIONS

On projects requiring test borings, test pits, or other explorations, we may obtain the services of reputable subcontractors to perform such work.

SPECIAL RATES

Per Diem or other special rates can be established for specific projects when conditions indicate the desirability of such rates.

INVOICES

Progress invoices will be submitted to the client monthly and a final bill will be submitted upon completion of the services. Invoices will show charges for different personnel and expense classifications. A more detailed separation of charges and data will be provided at clients request, but each invoice is due on presentation and is past due thirty (30) days from invoice date. Client agrees to pay a finance charge of 1 1/2% per month, or the maximum rate allowed by law on past due accounts.

INCREASES

Fee schedule increases made by our firm on an over-all client basis will be applied to work on all projects as they become effective. At least 30 days advance notice of such increases will be given.

The client's obligation to pay for the work contracted is in no way dependent upon the clients ability to obtain financing, zoning, approval of governmental or regulatory agents, or upon the client's successful completion of the project.

ACCESS TO SITES

Unless otherwise agreed, the Client will furnish us with right-of-access to the site in order to conduct the planned exploration. We will take responsible precautions to minimize damage to the site due to our operations, but have not included in the fee the cost of restoration of any damage resulting from the operations. If the Client desires, we will restore any damage to the site and add the cost of restoration to the fee.

Cardno ENTRIX

May 30, 2012

Reid T. Magner PTOE
Project Manager
Civiltech Engineering, Inc.
450 East Devon Avenue, Suite 300
Itasca, IL 60143

**Subject: Proposal to Provide Phase II Wetland Science Services
Washington Street Bike Path, Atkinson Road to Lancer Lane
Grayslake, Lake County, Illinois**

Cardno ENTRIX

1000 Hart Road
Suite 130
Barrington, IL 60010
USA

Phone 847 277 2850
Toll-free 800 368 7511
Fax 847 381 6679
www.cardno.com

www.cardnoentrix.com

Dear Mr. Magner:

Cardno ENTRIX is pleased to present Civiltech Engineering, Inc. (Civiltech) with this proposal to provide Phase II wetland science services for the Lake County Division of Transportation (LCDOT) Washington Street Bike Path, Atkinson Road to Lancer Lane Project (Washington Street Bike Path Project) located in Grayslake, Lake County, Illinois. Services presented herein coincide with the Washington Street Bike Path Phase II transportation engineering related services provided by Civiltech to LCDOT. Cardno ENTRIX presents this proposal in the following sections: project description, scope of work, project team, project schedule, project costs, and proposal acceptance.

PROJECT DESCRIPTION

Cardno ENTRIX understands that Civiltech has been retained by the LCDOT to provide Phase II transportation engineering services for the Washington Street Bike Path Project. This proposed bike path includes construction of a 10-foot wide, hot-mix asphalt path adjacent to Washington Street beginning at Atkinson Road and ending at Lancer Lane. The total project length is approximately 3,300 feet. The Project Corridor includes all areas identified in the Phase I services of the Washington Street Bike Path Project, which includes areas within the Washington Street roadway right-of-way (ROW) between Atkinson Road and Lancer Lane, as well as an additional 100 feet outside the ROW.

In preparing this proposal, Cardno ENTRIX has made the following assumptions:

1. The June 17, 2011, Wetland Delineation Report prepared by Cardno ENTRIX will not be expired at the time of the U.S. Army Corps of Engineers (USACE) and the Lake County Stormwater Management Commission (LCSMC) permit submittals;
2. The May 8, 2012, Illinois Department of Natural Resources (IDNR) natural resource review, including state listed threatened and endangered (T&E) species, consultation termination will not be expired at the time of USACE and LCSMC permit submittals;

3. The U.S. Fish and Wildlife Services (USFWS) Section 7 consultation memorandum for federally listed T&E species will not be expired at the time of USACE and LCSMC permit submittals;
4. There are no Lake County Advanced Identification (ADID) wetlands or high-quality aquatic resources (HQAR) within, adjoining, or adjacent to the Project Corridor;
5. There are no additional environmental concerns within the Project Corridor that would impede the USACE and LCSMC permit process, such as unanticipated environmental due diligence;
6. Permitting will fall under the USACE Regional Permit Program (RPP). Individual Permit (IP) coordination services are not included in this scope of work. Should an IP be required, Cardno ENTRIX will contact Civiltech to discuss further permit requirements;
7. USACE and LCSMC required wetland mitigation will be coordinated through a wetland mitigation bank. Cardno ENTRIX also assumes that the appropriate wetland mitigation banks are available, and that Civiltech and LCDOT are responsible for all wetland banking mitigation fees; and
8. Wetland mitigation design, plan preparation, monitoring, and management are not included in this proposal.

SCOPE OF WORK

Cardno ENTRIX proposes to complete the requested environmental services in two tasks: an initial permit submittal to the USACE and LCSMC and an optional permit re-submittal to LCSMC. The permit re-submittal task is intended to be optional, as needed.

Task 1 – USACE and LCSMC Permit Submittal

As part of this task, Cardno ENTRIX will schedule and attend an on-site pre-application meeting with the USACE, LCSMC, and Civiltech. Cardno ENTRIX will submit the wetland delineation report to LCSMC for preliminary jurisdictional determination (PJD) and boundary verification (BV) of Isolated Waters of Lake County (IWLC). Cardno ENTRIX will also submit the wetland delineation report to USACE for concurrence and jurisdictional determination of "waters of the U.S." (WOUS), including wetlands. Any fees required for these submittals have not been included in this scope of services and are the responsibility of LCDOT and Civiltech.

Cardno ENTRIX will prepare and submit all applicable wetland related permit materials for the Washington Street Bike Path Project to the USACE, LCSMC, and Civiltech. Cardno ENTRIX understands these permits to specifically include the wetland provisions portion of the LCWDO Watershed Development Permit (WDP) submittal to LCSMC and the Joint Application submittal to USACE. Cardno ENTRIX will prepare the permit applications and will request information and signatures for a complete initial submittal. Cardno ENTRIX also proposes to include as part of this task, a pre-application meeting with the USACE, LCSMC, and Civiltech. All permit submittals will be prepared and submitted by Cardno ENTRIX's Lake County Certified Wetland Specialist. Permitting fees have not been included in this proposal and are the responsibility of LCDOT and Civiltech. However, Cardno ENTRIX will discuss any appropriate fees with Civiltech prior to all permit submittals. Cardno ENTRIX will communicate with the USACE and LCSMC after the initial permit submittals until USACE and WDP comments or approvals are received, or for up to 120 days from the time of submittal.

Wetland mitigation banking coordination with the USACE, LCSMC, and an appropriate wetland banker is included in this task. However, wetland mitigation design, plan preparation, monitoring, and management are not included in this scope of work. Should USACE or LCSMC require mitigation other than mitigation banking, Cardno ENTRIX will coordinate with Civiltech with regard to the mitigation requirements necessary to obtain the appropriate wetland mitigation related permits. All fees associated with obtaining wetland banking credits are not included in this scope of work and are the responsibility of LCDOT and Civiltech.

Task 2 – USACE and LCSMC Permit Re-submittal (Optional)

Cardno ENTRIX proposes as part of this task to include coordination with the USACE, LCSMC, and Civiltech with regard to wetland permit comments received from the USACE and LCSMC as a result of the initial permit submittal. The services under this task include permit coordination and submittal for one subsequent re-submittal. Cardno ENTRIX will not proceed with subsequent wetland permit submittals unless authorized by Civiltech. Cardno ENTRIX will coordinate with the appropriate agencies, and prepare and submit the appropriate permit applications to the USACE and LCSMC as necessary. Re-submittal fees are the responsibility of the LCDOT and Civiltech.

PROJECT TEAM

Cardno ENTRIX proposes to manage this project out of the Barrington, Illinois office with personnel who have experience conducting environmental and wetland science services in Lake County. Mr. Barry Stuedemann, P.E. will serve as Project Manager and Lake County Certified Wetland Specialist. Cardno ENTRIX has many qualified environmental professionals available to support Mr. Stuedemann in this effort, including Cardno JFNew staff.

PROJECT SCHEDULE

Cardno ENTRIX will proceed with the scope of work presented in this proposal immediately upon authorization from Civiltech. Cardno ENTRIX, however, will only proceed for the specific tasks authorized by Civiltech. Specific schedules for each task are unknown at this time and will be coordinated with Civiltech throughout the duration of the Washington Street Bike Path Project. Wetland field meetings with the USACE and LCSMC must be completed during the Lake County growing season, from May 15th to October 1st, as required by the LCWDO. The schedule to complete each task is influenced by responses, concerns, and requests of Civiltech and the concerning agencies.

PROJECT COSTS

Cardno ENTRIX estimates the cost to complete tasks outlined in this proposal to be a maximum “not-to-exceed” fee of \$11,676. An itemization of these costs is presented in Table 1, Cost Estimate for Consulting Services.

A summary of these costs are as follows:

Task	Costs
Task 1 – USACE and LCSMC Permit Submittal	\$8,234
Task 2 – USACE and LCSMC Permit Re-submittal (Optional)	\$3,442
Total:	\$11,676

Cardno ENTRIX will not proceed with any task without written authorization from Civiltech. Cardno ENTRIX will bill Civiltech on a time and material basis in accordance with the Client Agreement between ENTRIX and Civiltech, dated February 18, 2008, and will not exceed the estimated costs presented in this proposal without written authorization from Civiltech.

Reid T. Magner, P.E.
Civiltech Engineering, Inc.
May 30, 2012



PROPOSAL ACCEPTANCE

To indicate your acceptance of this proposal, please sign the attached Task Order(s) and e-mail or fax back to our office at 847-381-6679 as our authorization to proceed. Cardno ENTRIX appreciates this opportunity to present environmental services to Civiltech. If you have any questions, please do not hesitate to contact me at 847-277-2850.

Sincerely,

A handwritten signature in black ink that reads 'Baron H. Stuedemann'. The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Baron H. Stuedemann, P.E., PWS
Senior Consultant / Wetlands Specialist
for Cardno ENTRIX
Direct Line: 847-277-2866
Email: baron.stuedemann@cardno.com

TABLE 1
Cost Estimate for Consulting Services
PHASE II WETLAND SCIENCE SERVICES
WASHINGTON STREET BIKE PATH, ATKINSON ROAD TO LANCER LANE
 Grayslake, Lake County, Illinois

Prepared for Civiltech Engineering, Inc.
 Prepared by Cardno ENTRIX

May 30, 2012

WASHINGTON STREET BIKE PATH PROJECT PHASE II WETLAND SCIENCE SERVICES TASK DESCRIPTION	PROJECT MANAGER	PROJECT SCIENTIST	PROJECT COORD.	TOTAL HOURS	TOTAL LABOR COSTS	TOTAL DIRECT COSTS*	NOT-TO- EXCEED COSTS
Task 1 - USACE and LCSMC Permit Submittal	20	24	8	52	\$7,884	\$350	\$8,234
Task 2 - USACE and LCSMC Permit Re-submittal	6	12	6	24	\$3,192	\$250	\$3,442
TOTAL:	26	36	14	76	\$11,076	\$600	\$11,676

* Mileage = \$200; Deliveries = \$200; Copies = \$200.



CONSULTANT TASK ORDER

Task Order No.: 1

Date: May 30, 2012

Cardno ENTRIX Project No.: _____

Civiltech Engineering, Inc.
450 East Devon Avenue, Suite 300
Itasca, IL 60143

Attn: Reid T. Magner, P.E.
Project Manager

**Phase II Washington Street Bike Path,
Atkinson Road to Lancer Lane**

This Task Order No. 1 is issued pursuant to our Agreement dated May 30, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES: USACE and LCSMC Permit Submittal

BILLING PROCEDURES: Monthly

TOTAL COST (NOT TO EXCEED): \$8,234 (Maximum Not-to-Exceed)

ESTIMATE OF TIME SCHEDULE: Starting Date: June 1, 2012

Completion Date: May 30, 2013

CARDNO ENTRIX'S REPRESENTATIVE: Baron H. Stuedemann, P.E., PWS

CONSULTANT'S REPRESENTATIVE: Reid T. Magner, P.E.

ACCEPTED:

Cardno ENTRIX

Civiltech Engineering, Inc.

By: _____ By: _____

Title: _____ Title: _____

Date: _____ Date: _____



CONSULTANT TASK ORDER

Task Order No.: 2

Date: May 30, 2012

Cardno ENTRIX Project No.: _____

Civiltech Engineering, Inc.
450 East Devon Avenue, Suite 300
Itasca, IL 60143

Attn: Reid T. Magner, P.E.
Project Manager

**Phase II Washington Street Bike Path,
Atkinson Road to Lancer Lane**

This Task Order No. 2 is issued pursuant to our Agreement dated May 30, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES: USACE and LCSMC Permit Re-Submittal

BILLING PROCEDURES: Monthly

TOTAL COST (NOT TO EXCEED): \$3,442 (Maximum Not-to-Exceed)

ESTIMATE OF TIME SCHEDULE: Starting Date: June 1, 2012

Completion Date: May 30, 2013

CARDNO ENTRIX'S REPRESENTATIVE: Baron H. Stuedemann, P.E., PWS

CONSULTANT'S REPRESENTATIVE: Reid T. Magner, P.E.

ACCEPTED:

Cardno ENTRIX

Civiltech Engineering, Inc.

By: _____ By: _____

Title: _____ Title: _____

Date: _____ Date: _____

T Engineering Services Ltd.



"T" Engineering Services, Ltd.
real estate appraisers

May 24, 2012

Mr. Reid T. Magner, P.E.
Civiltech Engineering, Inc.
450 E. Devon Ave., Suite 300
Itasca, Illinois 60143

*Subject: Proposal for Review Appraisal Services
Washington St. Bike Path*

Dear Mr. Magner:

We have experience in working for governmental agencies and participation in eminent domain proceedings: appraisal reviews, depositions, court testimony etc.; and have the ability to work closely with attorneys. We have familiarity with the Washington Street area, development patterns, and trends. Also we have the ability to work concurrently on numerous projects.

We propose to review appraisal reports on the subject project at \$600 per parcel (4 parcels total) with the client being Civiltech Engineering, Inc. The appraisal reviews will be completed within two weeks after receiving the subject appraisal reports.

Respectfully submitted,

Keith T. Tadrowski
President

Santacruz Associates

PROPOSAL FOR LAND ACQUISITION SERVICES

Lake County Division of
Transportation

Civiltech Engineering, Inc.



Washington Street Bike
Path from Atkinson Road
to Langer Lane

Santacruz Associates

2650 Valor Drive
Glenview, IL 60026
847.251.5800

SUMMARY

With a long history of successful delivery of a variety of right of way projects on-time, within budget and to our client's satisfaction, we look forward to the opportunity to assist the LPA with its land acquisition needs

COMPENSATION

Santacruz Associates shall be entitled to the compensation as shown on the attached schedule. Our cost proposal, based on **four (4)** projected parcels of right-of-way, is as follows:

NEGOTIATIONS: **\$8,800.00.**

As directed, Santacruz Associates shall invoice the LPA or Consultant for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary

documents to complete the conveyance and obtain clear title, (iv) lender's fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees. Santacruz Associates shall include **\$250.00** per parcel for these charges. Santacruz Associates shall pay any such fees and charges in excess of the **\$250.00** per parcel allowance for which Santacruz Associates shall be entitled to additional compensation in the amount of any such payments pursuant to a separate work order issued.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, the land acquisition negotiation services provided herein are offered a cost not to exceed of **\$9,800.00** as follows:

Land Acquisition Services	\$8,800.00
Direct Billable Expenses	\$1,000.00