

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda


 X Resolution or Ordinance (Blue) _____ Waiver of First Requested
_____ Recommendations of Boards, Commissions & Committees (Green)
_____ Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: January 22, 2016 (COW) (B of T) **Date:** February 4, 2016

TITLE: Hill Avenue Bridge
Resident Engineering Services

SUBMITTED BY: Carl Goldsmith, Director of Public Works 

BACKGROUND/POLICY IMPLICATIONS:

Provision of full time construction observation/inspection services for the Hill Avenue Bridge project.

FISCAL IMPACT/FUNDING SOURCE:

Total Contract Amount: \$225,615
Total Lombard CIP Budget Amount: \$25,000.00 (10% of Total Budget Amount of \$250,000.00)
Total Federal Budget Amount: \$200,000.00 (80 % of Total Budget Amount of \$250,000.00)
Total Glen Ellyn Budget Amount: \$25,000.00 (10% of Total Budget Amount of \$250,000.00)
NWS Project Number: ST 15 07
Account: Water/Sewer Capital Reserve: 520.790.715.75420

Review (as necessary):
Village Attorney X _____ Date _____
Finance Director X _____ Date _____
Village Manager X _____ Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.



To: Scott Niehaus, Village Manager

Through: Carl Goldsmith, Director of Public Works *g*

From: Dave Gorman, P.E., Assistant Director Public Works

Date: January 22, 2016

Subject: Hill Avenue Bridge
Revised Resident Engineering Services

The Village Board of Trustee approved the original resident engineering contract for the Hill Avenue Bridge on December 3, 2015. The executed Resolution and Construction Engineering Services Agreement for Federal Participation (BLR 05611) were forwarded to IDOT for approval. IDOT had minor revisions on the Resolution and the BLR 05611; however, no changes are made on the total original dollar amount of the contract approved by BoT on December 3, 2015. Attached please find the revised resolution and BLR 05611 regarding resident engineering services for the Hill Avenue Bridge project.

This selection procedure of the resident engineering firms was discussed in the previous Memorandum. The not-to-exceed fee for resident engineering services is \$225,615.00.

The Hill Avenue Bridge project is a federal aid project. The total funding (\$225,615.00) for the resident engineering services is shared by participations of Federal and local agencies, Village of Lombard and Village of Glen Ellyn. Village of Lombard participation is 10% (\$22,561.50); Village of Glen Ellyn participation is 10% (\$22,561.50), and Federal participation is 80% (\$180,492.00).

Please present this revised resolution and BLR 05611 to the President and Board of Trustees for their review at their regular meeting of February 4, 2016. If approved, please return five (5) original signed copies to Public Works-Engineering for further processing.

~~ADDENDUM 2~~
RESOLUTION
R _____ 16

A RESOLUTION AUTHORIZING SIGNATURE OF
THE CONSTRUCTION ENGINEERING SERVICES AGREEMENT
FOR FEDERAL PARTICIPATION
FOR THE HILL AVENUE BRIDGE PROJECT

WHEREAS, construction for the Hill Avenue Bridge is scheduled to begin in the Spring of 2016;

WHEREAS, the Local Public Agency Agreement for Federal Participation and IDOT will allow eighty percent (80%) of the cost to be paid for by the Federal Highway Administration and the remaining twenty percent (20%) split evenly by the Village of Lombard (10%) and Village of Glen Ellyn (10%);

WHEREAS, the Village desires to accept the proposal from the Construction Engineering Services Agreement for Federal Participation with Civiltech Engineering, Inc;

WHEREAS, the Local Public Agency Agreement for Federal Participation has agreed to pay eighty percent (80%), one hundred eighty thousand four hundred ninety two dollars (\$180,492) for construction engineering by the Federal Highway Administration. The Village of Lombard (10%) and the Village of Glen Ellyn (10%) will evenly split the remaining twenty percent (20%) of the construction engineering costs, forty five thousand one hundred twenty three dollars (\$45,123).

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS as follows:

SECTION 1: That the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said agreement as attached hereto.

SECTION 2: That the Village Clerk be and hereby is authorized to attest said agreement as attached hereto.

Adopted this 4th day of February, 2016.

Ayes: _____

Nays: _____

Absent: _____

Approved this 4th day of February, 2016.

Keith Giagnorio, Village President

ATTEST:

Sharon Kuderna, Village Clerk

January 19, 2016

Ms. Ying L. Miao, P.E.
Village of Lombard Public Works
1051 S. Hammerschmidt Avenue
Lombard, Illinois 60148-3926

Re: Hill Avenue over East Branch DuPage River Bridge Improvement
Section No. 10-00154-00-BR
Construction Engineering Agreement

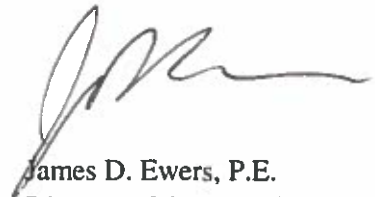
Dear Ms. Miao:

Thank you again for selecting Civiltech Engineering to provide Construction Engineering Services for this bridge reconstruction improvement. We are truly grateful for this opportunity.

Five copies of the executed agreement to provide Construction Engineering Services for the Hill Avenue over East Branch DuPage River Bridge Improvement are enclosed.

Please let us know if you have any questions or need anything else.

Very truly yours,



James D. Ewers, P.E.
Director of Construction
Engineering Services
Civiltech Engineering, Inc.



Local Agency	 Illinois Department of Transportation Construction Engineering Services Agreement For Federal Participation	Consultant
Village of Lombard		Civiltech Engineering, Inc.
County DuPage		Address 450 E Devon Avenue, Suite 300
Section 10-00154-00-BR		City Itasca
Project No. BRM 9003 (697)		State Illinois
Job No. C-91-752-10	Zip Code 60143	
Contact Name/Phone/E-mail Address Ying Miao; 630.620.5740 miaoy@villageoflombard.org	Contact Name/Phone/E-mail Address James D. Ewers; 630.773.3900 jewers@civiltechinc.com	

THIS AGREEMENT is made and entered into this _____ day of _____, 2015 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT described herein. 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.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
In Responsible Charge	A full time LA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

Project Description

Name Hill Ave over East Branch DuPage River Route FAU 1431 Length 0.19 mi Structure No. 022-7000
Termini West of I-355

Description: The work consists of the removal and replacement of the Hill Ave Bridge over the East Branch of the DuPage River including abutments and pier, roadway reconstruction on either side, driveways, storm sewer and structures, concrete curb & gutter, pavement markings, HMA shoulders, earth excavation, erosion control, landscaping, and all incidental work needed to complete the project.

Agreement Provisions

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the engineering services for the LA, in connection with the PROJECT hereinbefore described and checked below:
 - a. Proportion concrete according to applicable STATE Bureau of Materials and Physical Research (BMPR) Quality Control/Quality Assurance (QC/QA) training documents or contract requirements and obtain samples and perform testing as noted below.
 - b. Proportion hot mix asphalt according to applicable STATE BMPR QC/QA training documents and obtain samples and perform testing as noted below.
 - c. For soils, to obtain samples and perform testing as noted below.
 - d. For aggregates, to obtain samples and perform testing as noted below.

NOTE: For 1a. through 1d. the ENGINEER is to obtain samples for testing according to the STATE BMPR "Project Procedures Guide", or as indicated in the specifications, or as attached herein by the LA; test according to the STATE BMPR "Manual of Test Procedures for Materials", submit STATE BMPR inspection reports; and verify compliance with contract specifications.

- e. Inspection of all materials when inspection is not provided at the sources by the STATE BMPR, and submit inspection reports to the LA and the STATE in accordance with the STATE BMPR "Project Procedures Guide" and the policies of the STATE.
 - f. For Quality Assurance services, provide personnel who have completed the appropriate STATE BMPR QC/QA trained technician classes.
 - g. Inspect, document and inform the LA employee In Responsible Charge of the adequacy of the establishment and maintenance of the traffic control.
 - h. Geometric control including all construction staking and construction layouts.
 - i. Quality control of the construction work in progress and the enforcement of the contract provisions in accordance with the STATE Construction Manual.
 - j. Measurement and computation of pay items.
 - k. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
 - l. Preparation and submission to the LA by the required form and number of copies, all partial and final payment estimates, change orders, records, documentation and reports required by the LA and the STATE.
 - m. Revision of contract drawings to reflect as built conditions.
 - n. Act as resident construction supervisor and coordinate with the LA employee In Responsible Charge.
2. Engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with the AGREEMENT.
 3. To furnish the services as required herein within twenty-four hours of notification by the LA employee In Responsible Charge.
 4. To attend meetings and visit the site of the work at any reasonable time when requested to do so by representatives of the LA or STATE.
 5. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without the 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.
 6. The ENGINEER shall submit invoices, based on the ENGINEER's progress reports, to the LA employee In Responsible Charge, no more than once a month for partial payment on account for the ENGINEER's work completed to date. Such invoices shall represent the value, to the LA of the partially completed work, based on the sum of the actual costs incurred, plus a percentage (equal to the percentage of the construction engineering completed) of the fixed fee for the fully completed work.
 7. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable to improvement of the SECTION; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
 8. That the ENGINEER shall be responsible for the accuracy of the ENGINEER's work and correction of any errors, omissions or ambiguities due to the ENGINEER'S negligence which may occur either during prosecution or after acceptance by the LA. Should any damage to persons or property result from the ENGINEER's error, omission or negligent act, the ENGINEER shall indemnify the LA, the STATE and their employees from all accrued claims or liability and assume all restitution and repair costs arising from such negligence. The ENGINEER shall give immediate attention to any remedial changes so there will be minimal delay to the contractor and prepare such data as necessary to effectuate corrections, in consultation with and without further compensation from the LA.
 9. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.
 10. The undersigned certifies neither the ENGINEER nor I have:
 - a) 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;

- b) 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
 - c) 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.
 - d) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - e) 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;
 - f) 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) of this certification; and
 - g) 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.
11. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
 12. 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.
 13. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the work called for in the AGREEMENT.
 14. To be prequalified with the STATE in Construction Inspection when the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor. The onsite resident construction supervisor shall have a valid Documentation of Contract Quantities certification.
 15. Will provide, as required, project inspectors that have a valid Documentation of Contract Quantities certification.

II. THE LA AGREES,

1. To furnish a full time LA employee to be In Responsible Charge authorized to administer inherently governmental PROJECT activities.
2. To furnish the necessary plans and specifications.
3. To notify the ENGINEER at least 24 hours in advance of the need for personnel or services.
4. 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 Formulas

- $FF = 14.5\%[DL + R(DL) + OH(DL) + IHDC]$, or
- $FF = 14.5\%[(2.3 + R)DL + IHDC]$

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor
 FF=Fixed Fee
 SBO = Services by Others

$Total\ Compensation = DL + IHDC + OH + FF + SBO$

Specific Rate (Pay per element)

Lump Sum _____

5. 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 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.

6. The recipient shall not discriminate on the basis 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.).

7. To submit approved form BC 775 (Exhibit C) and BC 776 (Exhibit D) with this AGREEMENT.

III. It is Mutually Agreed,

1. That the ENGINEER and the ENGINEER's subcontractors will maintain all books, documents, papers, accounting records and other evidence pertaining to cost incurred and to make such materials available at their respective offices at all reasonable times during the AGREEMENT period and for three years from the date of final payment under this AGREEMENT, for inspection by the STATE, Federal Highway Administration or any authorized representatives of the federal government and copies thereof shall be furnished if requested.
2. That all services are to be furnished as required by construction progress and as determined by the LA employee In Responsible Charge. The ENGINEER shall complete all services specified herein within a time considered reasonable to the LA, after the CONTRACTOR has completed the construction contract.
3. That all field notes, test records and reports shall be turned over to and become the property of the LA and that 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 this AGREEMENT may be terminated by the LA upon written notice to the ENGINEER, at the ENGINEER's last known address, with the understanding that should the AGREEMENT be terminated by the LA, the ENGINEER shall be paid for any services completed and any services partially completed. The percentage of the total services which have been rendered by the ENGINEER shall be mutually agreed by the parties hereto. The fixed fee stipulated in numbered paragraph 4d of Section II shall be multiplied by this percentage and added to the ENGINEER's actual costs to obtain the earned value of work performed. All field notes, test records and reports completed or partially completed at the time of termination shall become the property of, and be delivered to, the LA.
5. That any differences between the ENGINEER and the LA concerning the 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.
6. That in the event the engineering and inspection services to be furnished and performed by the LA (including personnel furnished by the ENGINEER) shall, in the opinion of the STATE be incompetent or inadequate, the STATE shall have the right to supplement the engineering and inspection force or to replace the engineers or inspectors employed on such work at the expense of the LA.

7. That the ENGINEER has not been retained or compensated to provide design and construction review services relating to the contractor's safety precautions, except as provided in numbered paragraph 1f of Section I.
8. 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 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, any employee who is convicted, as required by section S of the Drug Free Workplace Act.
 - (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.
9. 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 this AGREEMENT or such other remedy as the LA deems appropriate.

**Exhibit A - Construction Engineering
COST ESTIMATE OF CONSTRUCTION SERVICES
PHASE III ENGINEERING SERVICES
FAU Route 1431 Hill Avenue over East Branch DuPage River Bridge Replacement
Village of Lombard**

Route: FAU Route 1431 Hill Avenue over East Branch DuPage River Bridge Replacement
Local Agency: Village of Lombard
Section No.: 10-00154-00-BR
Project No.: BRM-9003(887)
Job No.: C-81-752-10
County: DuPage

*Includes annual increase for work in 2015
**Firm's approved Over Head rate on file with IDOT's Bureau of Accounting and Auditing is 133.51%
***Labor x 0.145 x 2.3351 = Fixed Fee
Complexity factor (R=0.00)

Consultant: Civiltch Engineering, Inc.

Prepared: 11/12/2015

ITEM	Employee Classification	Estimated Manhours by Task					Total Number of Manhours	Percent of Total	DOLLARS (\$)				TOTAL
		Meetings	Layout & Verification	Inspection	Documentation	Administration			Payroll Costs	Payroll, Burden & Fringe Costs; Overhead & Expenses** (Labor x 1.3351)	Fixed Fee*** (Labor x 0.3369)		
Construction Engineering:	Res. Engr.	20	24	718	336		1,098	69.23%	50.82	\$ 55,800	\$ 74,469	\$ 18,884	\$ 149,163
	Asst. RE		16	264	80		300	22.70%	33.39	\$ 12,020	\$ 16,048	\$ 4,070	\$ 32,138
	Engr. (Inspector)					0	0	0.00%	33.39	\$ -	\$ -	\$ -	\$ -
	Tech (Intern)					0	0	0.00%	16.00	\$ -	\$ -	\$ -	\$ -
	Surveyor		76		12		88	5.55%	42.74	\$ 3,781	\$ 5,021	\$ 1,273	\$ 10,055
	Sr. Structural Engr.				16		16	1.01%	50.47	\$ 808	\$ 1,079	\$ 274	\$ 2,161
	Proj. Mngr.	12				12	24	1.51%	70.00	\$ 1,680	\$ 2,243	\$ 569	\$ 4,492
Direct Expenses:													SUBTOTAL
1.) Vehicle Expense													\$ 198,039
2.) Material Testing													\$ 7,875
3.) Printing Expense													\$ 19,291
4.) Photography													\$ 210
TOTALS		32	116	982	444	12	1,586	100.00%		\$ 74,069	\$ 98,690	\$ 25,060	\$ 225,615

- 1.) 175 Days @ \$45.00/Day
- 2.) Material Testing (Midland Standard Engineering & Testing, Inc.)
- 3.) Estimated printing expense for Record Drawings
- 4.) Estimated photography expense

FAU Route 1431 Hill Avenue over East Branch DuPage River Bridge Summary of Direct Costs

Route: FAU Route 1431 Hill Avenue over East Branch DuPage River Bridge Replacement
Local Agency: Village of Lombard
Section: 10-00154-00-BR
Proj. No.: BRM-9003(697)
Job No.: C-91-752-10
County: DuPage
Contract No.:

Direct Costs:

Printing Expense

Assume 2 large sets for working drawings & 1 set for final "As-Builts"
Bond Prints: 3 sets X 81 sheets/set X \$0.86 per sheet = \$209.98

Total = \$209.98

Say: \$210.00

Photography Expense

Assume 20 sets of developed digital pictures @ \$10.00 ea. = \$200.00

Total: \$200.00

Vehicle Expense

175 vehicle days required @ \$45.00 per day = \$7,875.00

Total: \$7,875.00

MIDLAND STANDARD ENGINEERING & TESTING, INC.

558 Plate Drive Unit 6
East Dundee, Illinois 60118
(847) 844-1895 f(847) 844-3875

November 10, 2015

Mr. James D. Ewers, P.E.
Civiltech Engineering, Inc.
450 E. Devon Avenue
Suite 300
Itasca, Illinois 60143

Re: **Quality Assurance Inspection and Testing Services**
Hill Avenue Bridge Section #10-00154-00-BR
Lemont, Illinois

Dear Mr. Ewers:

We have prepared this unit rate and cost estimate proposal to provide Quality Assurance services for your project in Lemont, Illinois. In this proposal we have included rates for personnel, equipment and materials to conduct field inspection for earthwork, field inspection of subgrade soils and backfill, portland cement concrete and backfill, hot mix asphalt, laboratory testing and documentation required.

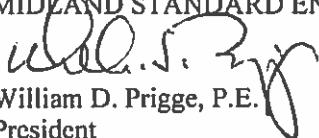
We propose to provide the necessary inspections and testing using experienced, certified personnel and recognized test procedures developed by IDOT, ASTM, AASHTO, ACI, etc. Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees-Attachment 1, included in this proposal package. The final cost of these services will be based upon the total amount of work performed.

We are staffed and equipped to aid you in the successful completion of your projects and are available to discuss any aspect of our proposal at your convenience.

Based on the project information submitted we have prepared cost estimates for the anticipated work. The estimate submitted assumes PREVAILING WAGE work. The final cost of these services will be based upon the total amount of work performed.

We are staffed and equipped to aid you in the successful completion of your projects and are available to discuss any aspect of our proposal at your convenience.

Sincerely,
MIDLAND STANDARD ENGINEERING & TESTING, INC.


William D. Prigge, P.E.
President
WDP/mlj

Attachment 1: Schedule of Services and Fees
Attachment 1.1: Cost Estimate

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1
QUALITY ASSURANCE
CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES
FOR

**Hill Avenue (FAU 1461) over
East Branch of DuPage River
Lombard, DuPage County, IL**

PREPARED BY
MIDLAND STANDARD ENGINEERING & TESTING, INC.
EAST DUNDEE, ILLINOIS

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BASIS OF RATES

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1

We propose to provide the necessary Engineering Consultation and Quality Control inspections and testing, using experienced personnel, in accordance with the project specifications and recognized test procedures developed by, IDOT, ASTM, ACI, AASHTO, etc. We can also provide engineering analysis, problem solving and consultation services as requested.

Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees.

Engineering Technicians or Field Engineers would be assigned to provide the field services as requested by your Designated Representatives. Engineering liaison, review and supervision will be provided by a Project Engineer.

In addition to the field and laboratory technical staff, we are able to provide full engineering backup services. Our engineering staff will be available to provide consultation and recommendations which may be required when job site problems are experienced.

Our billing philosophy is simple and direct. We account and invoice for all time expended on a project by our personnel for inspections, preparing and reviewing reports, attending meetings, resolving problems or providing services productive to the project.

Our field people are quoted on a time basis, which includes being fully equipped and expendable supplies.

ATTACHMENT 1
FEE SCHEDULE GENERAL INSPECTION AND TESTING

CONSTRUCTION TESTING AND INSPECTION SERVICES

A. Engineering Technicians

Engineering Technicians will be assigned to the project on the basis of complexity and/or specific experience requirements:

Material Tester 1, PCC	per day	\$ 768.00
	per half day	\$ 384.00
	per hour, 4-8 hr	\$ 96.00
	per hour overtime 8 hr+	\$ 134.40
Material Tester 1, HNA	per day	\$ 760.00
	per half day	\$ 380.00
	per hour, 4-8 hr	\$ 95.00
	per hour overtime 8 hr+	\$ 133.00
Material Tester 2	per day	\$ 792.00
	per half day	\$ 396.00
	per hour, 4-8 hr	\$ 99.00
	per hour overtime 8 hr+	\$ 138.60

Material Tester 2 Technicians will be assigned on mass earthwork assignments to monitor density, approve subgrade, obtain soil samples for laboratory testing. Concrete batch plant and Hot Mix batch plant inspection.

Material Tester 1 PCC Technicians will conduct field testing of concrete including slump, air content, temperature and casting strength specimens.

Material Tester 1 HMA Technicians will conduct field testing of hot mix asphalt pavement, conduct rolling patterns and monitor compaction operations.

*A four (4) hour minimum day is applicable to Technician and Technician (Level 1 and 2) assignments.

B. Engineering Services

Engineering Services for inspection, test evaluation, contract administration, laboratory and field supervision, resolution of special problems, preparation of reports, job-site and other job related meetings and consultation will be furnished in accordance with the following schedule of hourly rates:

Prevailing Wage Administration	\$ 75.00
Field Engineer	\$ 100.00
Staff (Graduate) Engineer	\$ 100.00
Project Engineer	\$ 110.00
Project Manager or Materials Consultant, P.E.	\$ 125.00
Geotechnical Engineer	\$ 135.00
Principal Engineer	\$ 145.00

ATTACHMENT 1 (CONT'D)

C. Laboratory Services

Our fully equipped laboratory can provide a full range of tests, rates for tests not specifically quoted available on request.

1. Compressive Strength tests of concrete cylinders, including expendable supplies (molds), curing at MSET, (Pick-up additional)	\$ 17.50 ea.
2. Flexural Strength tests of concrete beams, including reusable molds, curing at MSET and disposal, (Pick up additional)	\$ 50.00 ea.
3. Aggregate Gradation	
Dry Sieve Analysis.....	\$ 63.00 ea.
Washed Sieve Analysis.....	\$ 74.00 ea.
Hydrometer & Sieve Analysis.....	\$ 95.00 ea.
4. Atterberg Limits ASTM D4318.....	\$ 84.00 ea.
5. Theoretical Maximum Density ASTM D 2041	\$ 163.00 ea.
6. Asphalt Content by Reflux Extraction	\$ 105.00 ea.
7. Asphalt Content by Reflux Extraction with Gradation	\$ 163.00 ea.
8. Asphalt Content by Ignition Oven	\$ 110.00 ea.
9. Asphalt Content by Ignition Oven with Gradation	\$ 163.00 ea.
10. Bulk Specific Gravity of Gyratory Specimen	
a. (set of two) and air voids.....	\$ 326.00 ea.
11. Laboratory Compaction Characteristics Using Standard Effort ASTM D 698.....	\$ 165.00 ea.
12. Laboratory Compaction Characteristics Using Modified Effort ASTM D 1557.....	\$ 185.00 ea.

D. Miscellaneous Services

Concrete cylinder pick-up trips will be invoiced when cylinders are picked up as a special trip and not returned to laboratory by MSET personnel commuting to jobsite\$ 75.00 each

NOTES TO FEE SCHEDULE

1. a. Personnel rates quoted are based on rates quoted above are based on first shift work days, Monday through Friday, and up to 8 hours, per man, per day. Shift differentials are applied to straight time rates as follows:
 - First Shift - 6am-2pm, Rates x 1.0
 - Second Shift - 2pm-10pm, Rates x 1.10
 - Third Shift - 10pm-6am, Rates x 1.25Shift rate differentials are determined by the starting time of the inspection shift.
- b. Overtime rates are applicable to all work per man, over 8 hours per day, on Saturdays, Sundays and holidays. Overtime rates are 1.40 times the applicable straight time rate, (after applying the shift differential). An eight (8) hour minimum daily charge applies for second shift, third shift, weekend and holiday work.
- c. An overtime multiplier of 1.5 times the listed rates may be applied for laboratory testing such as concrete strength testing conducted outside of normal business hours, if required on a job to job basis.
2. Personnel rates are billed portal to portal from our East Dundee facilities. For full time assignments we will attempt to assign personnel to report directly to the job site.
3. Invoices will be submitted once a month for services rendered during the prior month.
4. Rates quoted above include 4 copies of reports distributed and mailed in accordance with your instructions.
5. The presence of our personnel on site will be for the express purpose of observing the work and performing specific tests to document compliance of the work with the applicable specifications. We will not be responsible for job site safety, that duty being properly an obligation of the Contractor, who should be so informed. We will comply fully with the Contractor's safety program.
6. Services and fees not specifically listed above will be quoted upon request.
7. Unit Rates quoted above are applicable until 1/1/17 and are based on our staffing conditions, current as of the date of this proposal.

Hill Avenue (FAU 1431) over East Branch of DuPage River
 Section #10-00154-00-BR
 Lombard, IL

Estimate of Testing & Inspection Costs										ATTACHMENT 1.1				LAB	WORK
WORK DESCRIPTION	TEST QTY	INSPECTION PERSONNEL REQUIREMENTS		COST	LABORATORY TESTING				Standard Proctor	Hydrometer & Atterberg	Cylinder Pickup	LAB COST	EXTENSION	TOTAL	
		PCC TESTER 1 (mandays)	PCC TESTER 2 (mandays)		Minimum Specific Gravity	Maximum Organic Content & Oil	Wash Sieve	HMA Core Density							LAB EXTENSION
Estimate of Testing & Inspection Costs															
EARTHWORK															
Earth CV/Unfilled Es	1,189 cu yd		1.0	\$792.00										\$792.00	
Aggregate Subgrade Imp	2,458 sq yd		1.0	\$792.00										\$792.00	
Trench Backfill	22 cu yd		1.0	\$792.00										\$792.00	
CONCRETE															
Structures	100 cu yd	4.0		\$3,072.00	16					5		\$655.00		\$3,727.00	
Superstructure	308 cu yd	6.0		\$4,608.00	16					2		\$430.00		\$5,038.00	
25	Curb and Gutter, 86.12	1.0		\$768.00	4					1		\$145.00		\$913.00	
HMA PAVEMENT															
Class D Patches, 8"	20 sq yd			\$760.00										\$760.00	
26	Bridge Approach	54 sq yd	1.0	\$380.00										\$380.00	
155	HMA Base, 8 1/4"	2,369 sq yd	0.5	\$380.00										\$380.00	
131	HMA Shoulders, 8"	256 sq yd	0.5	\$380.00										\$380.00	
Surface Course, NSD	297 tons	1.0		\$760.00	1									\$760.00	
Binder, NSD	305 ton	1.0		\$760.00	1									\$760.00	
SUBTOTAL TECHNICIANS		11.0	4.0	\$13,864.00	36	2	2	0	0	0	0	\$2,534.00		\$16,398.00	
				\$768.00 / 6y	\$17.50 / ea	\$163.00 / ea	\$32.60 / ea	\$95.00 / ea	\$179.00 / ea	\$75.00 / ea	\$600.00	\$2,534.00		\$16,398.00	
				\$8,448.00	\$3,040.00	\$3,040.00	\$13,864.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$16,398.00	
ALLOWANCE FOR ADDITIONAL ITEMS															
PCC Tester 1	11 hr.	rate per hour		\$1,478.40											
HMA Tester 1	5 hr.	\$134.40		\$665.00											
Material Tester 2	0 hr.	\$130.60		\$0.00											
PW Administration	hr.	\$15.00		\$0.00											
Field Engineer	hr.	\$100.00		\$0.00											
Project Engineer	6 hr.	\$125.00		\$750.00											
Principal Engineer	hr.	\$145.00		\$0.00											
SUBTOTAL													\$2,534.00	\$19,932.00	
GRAND TOTAL w/ additional allowance													\$2,534.00	\$21,466.00	