



Local Public Agency Engineering Services Agreement

Using Federal Funds? [X] Yes [] No Agreement For: Federal PE Agreement Type: Supplement Number: 1

LOCAL PUBLIC AGENCY

Local Public Agency: Village of Villa Park County: DuPage Section Number: 21-00099-00-BR Job Number: P-91-0029-22 Project Number: ZAK3(118) Contact Name: Michael Guerra Phone Number: (630) 834-8505 Email: mguerra@invillapark.com

SECTION PROVISIONS

Local Street/Road Name: Villa Avenue Key Route: FAU 2652 Length: 0.05 mi Structure Number: 022-5002

Location Termini: Terry Lane to Julie Drive Add Location Remove Location

Project Description: Rehabilitation of Villa Avenue Bridge over Sugar Creek between Terry Lane and Julie Drive

Engineering Funding: [X] Federal [] MFT/TBP [] State [X] Other Local Anticipated Construction Funding: [X] Federal [] MFT/TBP [] State [X] Other Local

AGREEMENT FOR

[X] Phase I - Preliminary Engineering [] Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name: TranSystems Corporation Contact Name: Dave Block Phone Number: (847) 407-5313 Email: dwblock@transystems.com Address: 1475 E. Woodfield Road; Suite 600 City: Schaumburg State: IL Zip Code: 60173

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT.

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

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

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

- EXHIBIT A: Scope of Services
- EXHIBIT B: Project Schedule
- EXHIBIT C: Qualification Based Selection (QBS) Checklist
- EXHIBIT D: Cost Estimate of Consultant Services (CESCS) Worksheet (BLR 05513 or BLR 05514)
- _____
- _____
- _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are 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.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA for Preliminary and/or Design Engineering. The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. To submit a completed BLR 05613, Engineering Payment Report, to the DEPARTMENT within three months of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement. The form shall be submitted with the final invoice.
8. 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 United States Department of Transportation (US DOT) assisted contract. 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 LPA deems appropriate.
9. 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 LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
10. For Preliminary Engineering Contracts:
 - (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
 - (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affix the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. 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 DEPARTMENT.
 - (c) That the ENGINEER is qualified technically and is thoroughly 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 in Exhibit A (Scope of Services).
11. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the following:
 - (a) Professional Services Selection Act (50 ILCS 510), The Brooks Act (40 USC 11), and the Procurement, Management, and Administration of Engineering, and Design Related Services (23 CFR part 172). Exhibit C is required to be completed with this AGREEMENT.
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.

3. To pay the ENGINEER:
 - (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, 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 LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

- Lump Sum
 Specific Rate
 Cost plus Fixed Fee:

Fixed

$$\text{Total Compensation} = \text{DL} + \text{DC} + \text{OH} + \text{FF}$$

Where:

DL is the total Direct Labor,
 DC is the total Direct Cost,
 OH is the firm's overhead rate applied to their DL and
 FF is the Fixed Fee.

Where $\text{FF} = (0.33 + R) \text{DL} + \% \text{SubDL}$, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any US 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 US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US 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 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. No work shall be commenced by the ENGINEER prior to issuance by the IDOT of a written Notice to Proceed.
2. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, 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 DEPARTMENT: the Federal Highways Administration (FHWA) or any authorized representative of the federal government, 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 DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
3. 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 LPA, the DEPARTMENT, and their officers, agents, and employees from all suits, claims, actions or damage liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
 The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
4. This AGREEMENT may be terminated by the LPA 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 LPA 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 LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.
5. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred as a result

of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.

6. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
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 have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. The ENGINEER and LPA certify that their respective firm or agency:
 - (a) has not 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 the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
 - (b) has not 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) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - (e) has 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 indicated 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
 - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State or local) terminated for cause or default.

Where the ENGINEER or LPA is unable to certify to any of the above statements in this certification, an explanation shall be attached to this AGREEMENT.

9. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes include but are not limited to: acts of God or a public enemy; act of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

10. This certification is required by the Drug Free Workplace Act (30 ILCS 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 DEPARTMENT 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 on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an 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 contract or grant of \$5,000 or more from the DEPARTMENT, as defined 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 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 (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 maintain 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.
- (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.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER, LPA and the Department agree to meet the PROJECT SCHEDULE outlined in EXHIBIT B. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future project. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

- 11. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).
- 12. For Preliminary Engineering Contracts:
 - (a) That tracing, 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 LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.
 - (b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT 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.

AGREEMENT SUMMARY

| Prime Consultant (Firm) Name | TIN/FEIN/SS Number | Agreement Amount |
|------------------------------|--------------------|------------------|
| TranSystems Corporation | 43-0839725 | \$16,946.00 |
| | | |
| Subconsultants | TIN/FEIN/SS Number | Agreement Amount |
| Wang Engineering | 36-3191909 | \$2,216.00 |
| Hey & Associates, Inc. | | \$3,542.00 |
| Subconsultant Total | | \$5,758.00 |
| Prime Consultant Total | | \$16,946.00 |
| Total for all work | | \$22,704.00 |

AGREEMENT SIGNATURES

Executed by the LPA:

The

| |
|--------------------------|
| Local Public Agency Type |
| Village |

 of

| |
|-----------------------|
| Local Public Agency |
| Village of Villa Park |

Attest:

By (Signature & Date)

| |
|---|
|  21 Oct 2024 |
|---|

By (Signature & Date)

| |
|--|
| |
|--|

Name of Local Public Agency:

| |
|-----------------------|
| Village of Villa Park |
|-----------------------|

Local Public Agency Type:

| |
|---------|
| Village |
|---------|

 Clerk

Title:

| |
|--|
| |
|--|

(SEAL)

Executed by the ENGINEER:

Prime Consultant (Firm) Name

| |
|-------------------------|
| TranSystems Corporation |
|-------------------------|

Attest:

By (Signature & Date)

| |
|---|
|  10/22/2024 |
|---|

By (Signature & Date)

| |
|--|
|  10/22/2024 |
|--|

Title

| |
|----------------|
| Vice President |
|----------------|

Title

| |
|-----------------------|
| SENIOR VICE PRESIDENT |
|-----------------------|

| | | | |
|-----------------------|------------------------------|--------|----------------|
| Local Public Agency | Prime Consultant (Firm) Name | County | Section Number |
| Village of Villa Park | TranSystems Corporation | DuPage | 21-00099-00-BR |

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

**EXHIBIT A
SCOPE OF SERVICES**

FOR FEDERAL PARTICIPATION PROJECTS

Supplemental Scope of Services

1. Project Coordination - additional effort for project management and project administration to account for the increase in work included in this supplement.
2. Geotechnical Investigation - Wang submitted their original proposal for this project on February 28, 2019 in the amount of \$6,598. The project wasn't initiated until April 2023; however, Wang's proposal was never updated to account for their rate increases. Wang submitted a revised proposal to complete the work for this project on May 19, 2023 in the amount of \$8,814. The difference of \$2,216 is the amount requested through this supplement. Both proposals are attached.
3. Hydraulic Analysis - IDOT reviewed the Bridge Condition Report, which noted flooding conditions overtopping the Villa Avenue roadway in certain historic flood events. The project team feels the overtopping is caused by downstream obstructions as shown in the floodway profiles rather than by the existing culvert under Villa Avenue. IDOT is requiring a hydraulic analysis to confirm that the existing culvert is not the source of the overtopping. A hydraulic analysis was not included in the original scope, so this work is added by supplement. Hey and Associates will be providing the analysis.
4. Plat of Dedication - The existing right-of-way lines indicate that part of the existing culvert wing walls on the east side of Villa Avenue is outside the ROW. The property outside the ROW is still owned by the Village of Villa Park; however, the land is also in the name of the Elmhurst Park District. At an FHWA coordination meeting, IDOT required that the ROW be revised so the culvert is within the roadway ROW corridor. The culvert wing walls on the west side of Villa Avenue appear to be within the existing ROW; however, the Village would also like to adjust the ROW on that side to allow more space. Jorgensen has sufficient remaining fee to complete the proposed plats of dedication. The additional effort is for TranSystems to coordinate this work.
5. 4(f) De Minimis - The property outside the ROW on the east side of Villa Avenue is owned by the Village of Villa Park; however, the land is also in the name of the Elmhurst Park District. At an FHWA coordination meeting, IDOT noted that the Elmhurst Park District's land interest triggered a 4(f) impact. Ownership of this property was unknown when the original agreement was prepared, so the effort to prepare and manage the 4(f) de minimis document is added by supplement. The effort includes preparing the document and exhibits, coordinating with the Elmhurst Park District, including the document for review at a public information meeting, soliciting consent and signature from the Elmhurst Park District, and inclusion in the PDR.
6. Project Development Report - IDOT recently published new documents for Phase 1 Project Development Reports. The new documents will require additional effort beyond what was included in the original agreement.

| | | | |
|-----------------------|------------------------------|--------|----------------|
| Local Public Agency | Prime Consultant (Firm) Name | County | Section Number |
| Village of Villa Park | TranSystems Corporation | DuPage | 21-00099-00-BR |

**EXHIBIT B
PROJECT SCHEDULE**

| |
|--|
| DOT Kickoff Meeting - 4/2023 Fed Coordination Meeting - 10/2023 Draft PDR - 1/2025 Public Meeting - 5/2025 Final PDR - 7/2025 Design Approval - 10/2025 |
|--|

| | | | |
|-----------------------|------------------------------|--------|----------------|
| Local Public Agency | Prime Consultant (Firm) Name | County | Section Number |
| Village of Villa Park | TranSystems Corporation | DuPage | 21-00099-00-BR |

**Exhibit C
Qualification Based Selection (QBS) Checklist**

The LPA must complete Exhibit D. If the value meets or will exceed the threshold in 50 ILCS 510, QBS requirements must be followed. Under the threshold, QBS requirements do not apply. The threshold is adjusted annually. If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

| | | No | Yes |
|---|---|--------------------------|-------------------------------------|
| 1 | Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 | Was the scope of services for this project clearly defined? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4 | Was public notice given for this project? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If yes Due date of submittal

Method(s) used for advertisement and dates of advertisement

| | | | |
|---|--|--------------------------|-------------------------------------|
| 5 | Do the written QBS policies and procedures cover conflicts of interest? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Do the written QBS policies and procedures use covered methods of verification for suspension and debarment? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7 | Do the written QBS policies and procedures discuss the methods of evaluation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Project Criteria | Weighting |
|-----------------------------------|-----------|
| Completeness of Qualifications | 15% |
| Staff Qualifications | 25% |
| Similar Project Experience | 25% |
| Ability to Meet Project Deadlines | 25% |
| Local Presence | 10% |

| | | | |
|---|---|--------------------------|-------------------------------------|
| 8 | Do the written QBS policies and procedures discuss the method of selection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|---|--------------------------|-------------------------------------|

Selection committee (titles) for this project

Top three consultants ranked for this project in order

| | |
|---|-------------------------|
| 1 | TranSystems Corporation |
| 2 | Civiltech |
| 3 | V3 Companies, Ltd. |

| | | | |
|----|--|-------------------------------------|-------------------------------------|
| 9 | Was an estimated cost of engineering for this project developed in-house prior to contract negotiation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Were negotiations for this project performed in accordance with federal requirements. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | Were acceptable costs for this project verified? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 | Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 | Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 | QBS according to State requirements used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15 | Existing relationship used in lieu of QBS process? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| Local Public Agency | Prime Consultant (Firm) Name | County | Section Number |
|--|-------------------------------------|--------------------------|----------------|
| Village of Villa Park | TranSystems Corporation | DuPage | 21-00099-00-BR |
| 16 LPA is a home rule community (Exempt from QBS). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |



| | | |
|---|----------------------------------|---|
| Local Public Agency Village of Villa Park | County DuPage | Section Number 21-00099-00-BR |
| Prime Consultant (Firm) Name TranSystems Corporation | Prepared By Dave Block | Date 2/23/2024 |
| Consultant / Subconsultant Name TranSystems Corporation | Job Number P-91-029-22 | |

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

PAYROLL ESCALATION TABLE

| | | | | | |
|---------------|------------|--------|--|-------------------|---------|
| CONTRACT TERM | 12 | MONTHS | | OVERHEAD RATE | 134.03% |
| START DATE | 10/14/2024 | | | COMPLEXITY FACTOR | 0 |
| RAISE DATE | 4/6/2025 | | | % OF RAISE | 2.00% |
| END DATE | 10/13/2025 | | | | |

ESCALATION PER YEAR

| Year | First Date | Last Date | Months | % of Contract |
|------|------------|-----------|--------|---------------|
| 0 | 10/14/2024 | 4/6/2025 | 6 | 50.00% |
| 1 | 4/7/2025 | 10/6/2025 | 6 | 51.00% |

The total escalation = 1.00%

Local Public Agency**County****Section Number**

Village of Villa Park

DuPage

21-00099-00-BR

Consultant / Subconsultant Name**Job Number**

TranSystems Corporation

P-91-029-22

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

| | |
|-----------------------------|--------------|
| MAXIMUM PAYROLL RATE | 86.00 |
| ESCALATION FACTOR | 1.00% |

| CLASSIFICATION | IDOT PAYROLL RATES ON FILE | CALCULATED RATE |
|---------------------------------|---|------------------------|
| Engineer 5 (E5) | \$86.00 | \$86.00 |
| Engineer 4 (E4) | \$86.00 | \$86.00 |
| Engineer 3 (E3) | \$77.17 | \$77.94 |
| Engineer 2 (E2) | \$55.00 | \$55.55 |
| Engineer 1 (E1) | \$42.00 | \$42.42 |
| Planner 5 (P5) | \$86.00 | \$86.00 |
| Planner 4 (P4) | \$75.23 | \$75.98 |
| Planner 3 (P3) | \$51.74 | \$52.26 |
| Planner 2 (P2) | \$70.48 | \$71.18 |
| Architect 4 (AR4) | \$73.94 | \$74.68 |
| Architect 3 (AR3) | \$60.12 | \$60.72 |
| Architect 2 (AR2) | \$48.16 | \$48.64 |
| Architect 1 (AR1) | \$36.41 | \$36.77 |
| Analyst 2 (AN2) | \$38.60 | \$38.99 |
| Environmental Scientist 4 (SC4) | \$80.00 | \$80.80 |
| Industry Specialist 4 (IS4) | \$86.00 | \$86.00 |
| Industry Specialist 3 (IS3) | \$69.88 | \$70.58 |
| Surveyor 4 | \$86.00 | \$86.00 |
| Construction Services 5 (CS5) | \$86.00 | \$86.00 |
| Construction Services 4 (CS4) | \$69.90 | \$70.60 |
| Construction Services 3 (CS3) | \$53.03 | \$53.56 |
| Construction Services 2 (CS2) | \$36.81 | \$37.18 |
| Construction Services 1 (CS1) | \$36.92 | \$37.29 |
| Technician 3 (T3) | \$46.12 | \$46.58 |
| Technician 1 (T1) | \$23.03 | \$23.26 |
| Administrative 3 (A3) | \$57.29 | \$57.86 |
| Administrative 2 (A2) | \$34.78 | \$35.13 |

Local Public Agency

Village of Villa Park

County

DuPage

Section Number

21-00099-00-BR

Consultant / Subconsultant Name

TranSystems Corporation

Job Number

P-91-029-22

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project. EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

Table with 5 columns: ITEM, ALLOWABLE, QUANTITY, CONTRACT RATE, TOTAL. Rows include various cost categories like Lodging, Air Fare, Vehicle Mileage, etc., all with a total of \$0.00.

TOTAL DIRECT COSTS: \$0.00

Local Public Agency
 Village of Villa Park
Consultant / Subconsultant Name
 TranSystems Corporation

County
 DuPage

Section Number
 21-00099-00-BR
Job Number
 P-91-029-22

AVERAGE HOURLY PROJECT RATES
 EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 2

| PAYROLL CLASSIFICATION | AVG HOURLY RATES | TOTAL PROJ. RATES | | | 1-Project Coordination | | | 2-Geotechnical Investigation | | | 3-Hydraulic Analysis | | | 4-Plat of Dedication | | | 5-4(f) De Minimis | | |
|---------------------------------|------------------|-------------------|---------|----------|------------------------|---------|----------|------------------------------|---------|----------|----------------------|---------|----------|----------------------|---------|----------|-------------------|---------|----------|
| | | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg |
| Engineer 5 (E5) | 86.00 | 0.0 | | | | | | | | | | | | | | | | | |
| Engineer 4 (E4) | 86.00 | 18.0 | 16.67% | 14.33 | 6 | 50.00% | 43.00 | | | | 1 | 12.50% | 10.75 | 1 | 12.50% | 10.75 | 8 | 13.33% | 11.47 |
| Engineer 3 (E3) | 77.94 | 0.0 | | | | | | | | | | | | | | | | | |
| Engineer 2 (E2) | 55.55 | 78.0 | 72.22% | 40.12 | | | | 4 | 100.00% | 55.55 | 7 | 87.50% | 48.61 | 7 | 87.50% | 48.61 | 52 | 86.67% | 48.14 |
| Engineer 1 (E1) | 42.42 | 6.0 | 5.56% | 2.36 | | | | | | | | | | | | | | | |
| Planner 5 (P5) | 86.00 | 0.0 | | | | | | | | | | | | | | | | | |
| Planner 4 (P4) | 75.98 | 0.0 | | | | | | | | | | | | | | | | | |
| Planner 3 (P3) | 52.26 | 0.0 | | | | | | | | | | | | | | | | | |
| Planner 2 (P2) | 71.18 | 0.0 | | | | | | | | | | | | | | | | | |
| Architect 4 (AR4) | 74.68 | 0.0 | | | | | | | | | | | | | | | | | |
| Architect 3 (AR3) | 60.72 | 0.0 | | | | | | | | | | | | | | | | | |
| Architect 2 (AR2) | 48.64 | 0.0 | | | | | | | | | | | | | | | | | |
| Architect 1 (AR1) | 36.77 | 0.0 | | | | | | | | | | | | | | | | | |
| Analyst 2 (AN2) | 38.99 | 0.0 | | | | | | | | | | | | | | | | | |
| Environmental Scientist 4 (ES4) | 80.80 | 0.0 | | | | | | | | | | | | | | | | | |
| Industry Specialist 4 (IS4) | 86.00 | 0.0 | | | | | | | | | | | | | | | | | |
| Industry Specialist 3 (IS3) | 70.58 | 0.0 | | | | | | | | | | | | | | | | | |
| Surveyor 4 | 86.00 | 0.0 | | | | | | | | | | | | | | | | | |
| Construction Services 5 (C5) | 86.00 | 0.0 | | | | | | | | | | | | | | | | | |
| Construction Services 4 (C4) | 70.60 | 0.0 | | | | | | | | | | | | | | | | | |
| Construction Services 3 (C3) | 53.56 | 0.0 | | | | | | | | | | | | | | | | | |
| Construction Services 2 (C2) | 37.18 | 0.0 | | | | | | | | | | | | | | | | | |
| Construction Services 1 (C1) | 37.29 | 0.0 | | | | | | | | | | | | | | | | | |
| Technician 3 (T3) | 46.58 | 0.0 | | | | | | | | | | | | | | | | | |
| Technician 1 (T1) | 23.26 | 0.0 | | | | | | | | | | | | | | | | | |
| Administrative 3 (A3) | 57.86 | 0.0 | | | | | | | | | | | | | | | | | |
| Administrative 2 (A2) | 35.13 | 6.0 | 5.56% | 1.95 | 6 | 50.00% | 17.56 | | | | | | | | | | | | |
| TOTALS | | 108.0 | 100% | \$58.76 | 12.0 | 100.00% | \$60.56 | 4.0 | 100% | \$55.55 | 8.0 | 100% | \$59.36 | 8.0 | 100% | \$59.36 | 60.0 | 100% | \$59.61 |

February 28, 2019

Mr. Matthew Santeford, P.E., S.E.
Project Manager
TranSystems Corporation
1475 E. Woodfield Road, Suite 600
Schaumburg, Illinois 60173

Re: Proposal - Geotechnical Engineering Services
Villa Avenue Top Slab Replacements
Phase I
Villa Park, Illinois
Wang No.: P190233

Dear Mr. Santeford:

Wang Engineering, Inc. (Wang) is pleased to present our proposal to provide geotechnical engineering services to support Phase I design of the proposed Villa Avenue Bridge improvements in the village of Villa Park, DuPage County, Illinois. The following describes our proposed scope of work and assumptions made in developing the cost estimate.

SCOPE OF WORK

Wang understands the existing triple cell culvert carries Villa Avenue over Sugar Creek, about 4,000 feet north of the intersection with Roosevelt Road. This culvert was originally constructed in 1968 and consists of three cells that are 9 feet wide and 4 feet tall, for a total structure length of 29.7 feet. The structure has a rating of 4 (poor condition). We understand the existing culvert will not be replaced with a new one. Thus, only top slab will be replaced.

Geotechnical Drilling: As proposed by TranSystems, Wang will provide equipment, labor, and associated materials to drill and sample two roadway borings to an approximate depth of 10 feet below ground surface (bgs) for a total of 20 feet of drilling. The roadway borings will be sampled continuously to the termination depths. Soil samples will be taken with split-spoon samplers according to AASHTO T-206, "Penetration Test and Split-Barrel Sampling of Soils." The borings will be backfilled with bentonite and soil cuttings immediately after completion and, the pavement will be patched.

Field Supervision: Before starting the investigation, a Wang representative will mark the boring locations in the field, and clear utilities through JULIE One-Call. A field engineer will monitor the geotechnical drilling and will coordinate traffic control. The field engineer will also maintain daily field notes, log the soil borings, as well as receive, classify, and prepare soil samples for

laboratory analysis, perform penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples. He/ she will also observe the groundwater level in boreholes. State Plane northing and easting coordinates of the as-drilled boring locations will be surveyed with a mapping-grade GPS unit.

Laboratory Testing: After the completion of the drilling phase, the soil samples will be delivered to our in-house IDOT- and AASHTO-certified laboratory in Lombard, Illinois. The soil testing program will include natural moisture content on all samples, Atterberg limits, and particle size analysis on select sample.

Engineering Analysis and Recommendations: One geotechnical report will be prepared for addressing the roadway approach improvements. The report will include a detailed description of soil and groundwater conditions encountered, field and laboratory testing procedures, geotechnical engineering analysis performed, and recommendations for the construction of the approach roadway. The report will also include a site location map, a boring location plan, boring logs, and laboratory tests results.

SCHEDULING

We anticipate that, after utility clearance, four hours will be necessary to complete the field work. The laboratory testing program will be completed within one week after the field activity completion. The geotechnical report will be finalized one week after the completion of the testing program.

ESTIMATED COST AND ASSUMPTIONS

Wang proposes to provide the above tasks on time and expense basis according to the attached cost estimate. Wang would not exceed the estimated upper limit without the Client approval. In preparing the cost estimate we have assumed the following conditions:

- Traffic control will be necessary and has been included in the cost estimate;
- The boring locations are accessible to an Truck-mounted drill rig; and
- No hazardous materials are encountered.

Wang Engineering, Inc. appreciates the opportunity to present this proposal. If you have questions, or if you require additional information, please contact us at (630) 953-9928.

Sincerely,

WANG ENGINEERING, INC.

Andri A. Kurnia, P.E.
Project Manager

Corina T. Farez, P.E., P.G.
Vice President



**GEOTECHNICAL SERVICES
UNIT PRICES
2018**



Name: Villa Avenue Bridge Phase I
Project: Top Slab Replacement
Contract/Job: n.a

Date: 02/22/2019
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|---|-----------|------------------|-------------------|
| DRILLING, SAMPLING & INSITU TESTING | | | |
| Drilling Coordination, Utilities Clearance, Site Access, Permitting | 1.0 Hours | \$98.76 /Hour | \$98.76 |
| Mobilization | 0 | \$1,400.00 /Each | \$0.00 |
| Stand-by Hourly Rate | 0.0 Hours | \$400.00 /Hour | \$0.00 |
| <u>Drilling & Sampling - Hourly (SPT, Penetrometer, Rimac, Visual Classification Included)</u> | | | |
| Two-man crew - normal working hrs | 4.0 Hours | \$400.00 /Hour | \$1,600.00 |
| Two-man crew - overtime (2 hrs per day) | 0.0 Hours | \$450.00 /Hour | \$0.00 |
| Two-man crew and field supervisor- normal working hrs | 0.0 Hours | \$480.00 /Hour | \$0.00 |
| Two-man crew and field supervisor - overtime (2 hrs per day) | 0.0 Hours | \$530.00 /Hour | \$0.00 |
| <u>Hand Augering, Pavement/ Deck Coring & Testing</u> | | | |
| Two-man crew and equipment | 0.0 Hours | \$400.00 /Hour | \$0.00 |
| Asbestos content testing on deck cores | 0 Tests | \$175.00 /Test | \$0.00 |
| <u>Surveying of Boring Locations (Two-man crew)</u> | 0.0 Hours | \$205.00 /Hour | \$0.00 |
| <u>Monitoring Well or Inclinometer Installation</u> | | | |
| <u>2.0- or 4-inch monitoring wells</u> | | | |
| Two-man crew - normal working hours | 0.0 Hours | \$400.00 /Hour | \$0.00 |
| Two-man crew - overtime (2 hours per day) | 0.0 Hours | \$450.00 /Hour | \$0.00 |
| <u>Inclinometer casing installation</u> | | | |
| Two-man drilling crew - normal working hours | 0.0 Hours | \$400.00 /Hour | \$0.00 |
| Two-man crew - overtime (2 hours per day) | 0.0 Hours | \$450.00 /Hour | \$0.00 |
| <u>Other items</u> | | | |
| 55 gallon dot containment drums | 0 Drums | \$42.00 /Drum | \$0.00 |
| Digital datalogger and barometer | 0 Each | \$1,300.00 /Each | \$0.00 |
| Well and Casing Materials | At Cost | | \$0.00 |
| <u>Drilling and Sampling - per Foot (SPT, Penetrometer, Rimac, Visual Classification Included)</u> | | | |
| Between 0 and 75 feet | 0.0 Feet | \$39.00 /Foot | \$0.00 |
| Between 75 and 150 feet | 0.0 Feet | \$55.00 /Foot | \$0.00 |
| Drill without sampling | 0.0 Feet | \$28.00 /Foot | \$0.00 |
| Shelby tube samples | 0 Samples | \$85.00 /Sample | \$0.00 |
| Rock core setup | 0 Setups | \$403.00 /Setup | \$0.00 |
| Set casing and rock coring | 0.0 Feet | \$85.00 /Foot | \$0.00 |
| Borehole backfilling | 0.0 Feet | \$11.00 /Foot | \$0.00 |
| Pavement patching | 0 Patches | \$22.00 /Each | \$0.00 |
| Drilling crew daily travel | 0 Days | \$200.00 /Day | \$0.00 |
| <u>Other Insitu Tests</u> | | | |
| Pressuremeter testing | 0 Days | \$2,500.00 /Day | \$0.00 |
| Vane shear | 0 Tests | \$200.00 /Test | \$0.00 |
| Dilatometer testing | At Cost | | \$0.00 |
| Cone penetration testing (CPT/CPTu) | At Cost | | \$0.00 |
| Photoionization detector (PID) | 0 Days | \$100.00 /Day | \$0.00 |
| Double ring infiltrometer test (ASTM D3385) | 0 Tests | \$1,117.00 /Test | \$0.00 |
| Single ring infiltrometer test (Chicago Stormwater Ordinance) | 0 Tests | \$608.00 /Test | \$0.00 |
| <u>Boring Location Accessibility, Railroad Fees, State/County/Municipal Fees, Barge Drilling</u> | | | |
| Private utility determination | At Cost | | \$0.00 |
| Tree clearance | At Cost | | \$0.00 |
| Guardrail removal and replacement | At Cost | | \$0.00 |
| Dozer / equipment rental | At Cost | | \$0.00 |
| Railroad permitting | At Cost | | \$0.00 |
| Railroad protective insurance | At Cost | | \$0.00 |
| Railroad flagman | At Cost | | \$0.00 |
| Pavement opening permit | At Cost | | \$0.00 |
| State/municipal insurance and bonding | At Cost | | \$0.00 |
| Barge drilling on a navigable waterway | At Cost | | \$0.00 |
| | | | \$1,698.76 |

1145 N Main Street
Lombard, IL 60148
630 953-9928



**GEOTECHNICAL SERVICES
UNIT PRICES
2018**



Name: Villa Avenue Bridge Phase I
Project: Top Slab Replacement
Contract/Job: n.a

Date: 02/22/2019
Wang No.: P190233

| Task Description | | Units | Unit Price | Extended Cost | |
|--|-------|---|------------|------------------|---------------|
| LABORATORY TESTING | | | | | |
| T265 | D2216 | Water Content | 10 Tests | \$9.80 /Test | \$98.00 |
| -- | D7263 | Unit Weight (Density) | 0 Tests | \$36.00 /Test | \$0.00 |
| T100 | D854 | Specific Gravity | 0 Tests | \$66.00 /Test | \$0.00 |
| -- | D4972 | pH of Soil | 0 Tests | \$59.00 /Test | \$0.00 |
| T267 | D2974 | Organic Content by LOI | 0 Tests | \$60.00 /Test | \$0.00 |
| T194 | -- | Organic Content by Wet Combustion | 0 Tests | \$133.00 /Test | \$0.00 |
| <u>Particle Size Distribution</u> | | | | | |
| T88 | D422 | Sieve Analysis | 0 Tests | \$77.00 /Test | \$0.00 |
| T88 | D422 | Combined Sieve and Hydrometer | 1 Tests | \$122.00 /Test | \$122.00 |
| -- | D1140 | Percent Finer than No. 200 Sieve | 0 Tests | \$50.00 /Test | \$0.00 |
| <u>Atterberg Limits</u> | | | | | |
| T89, T90 | D4318 | Liquid and Plastic Limits | 1 Tests | \$77.00 /Test | \$77.00 |
| T92 | D427 | Shrinkage Factors | 0 Tests | \$90.00 /Test | \$0.00 |
| <u>Classification of Soils</u> | | | | | |
| -- | D2488 | Visual Manual | 0 Samples | \$19.00 /Sample | \$0.00 |
| -- | D2487 | Unified Soil Classification System | 0 Samples | \$195.00 /Sample | \$0.00 |
| M145 | -- | AASHTO Classification | 0 Samples | \$195.00 /Sample | \$0.00 |
| -- | -- | USDA Classification | 0 Samples | \$122.00 /Sample | \$0.00 |
| <u>Soil Settlement, Swelling, and Collapse Potential</u> | | | | | |
| T216 | D2435 | One-Dimensional Consolidation | 0 Tests | \$556.00 /Test | \$0.00 |
| -- | D4546 | One-Dimensional Swell | 0 Tests | \$540.00 /Test | \$0.00 |
| -- | D5333 | Collapse Potential | 0 Tests | \$300.00 /Test | \$0.00 |
| <u>Shear Strength of Soil</u> | | | | | |
| | | Rimac Unconfined Compressive Strength | 0 Tests | \$14.50 /Test | \$0.00 |
| T208 | D2166 | Unconfined Compressive Strength | 0 Tests | \$81.00 /Test | \$0.00 |
| T236 | D3080 | Direct Shear of Soils (3 points) | 0 Tests | \$715.00 /Test | \$0.00 |
| T296 | D2850 | UU Triaxial Compression (3 points) | 0 Tests | \$335.00 /Test | \$0.00 |
| T297 | D4767 | CU Triaxial Compression (3 points) | 0 Tests | \$1,100.00 /Test | \$0.00 |
| T297 | D4767 | CD Triaxial Compression (3 points) | 0 Tests | \$1,100.00 /Test | \$0.00 |
| | D7012 | Peak Uniaxial Compressive Strength of Rock Core | 0 Tests | \$163.00 /Test | \$0.00 |
| <u>Laboratory Compaction Tests</u> | | | | | |
| T99 | D698 | Moisture-Density of Soils (Standard Effort) | 0 Tests | \$200.00 /Test | \$0.00 |
| T180 | D1557 | Moisture-Density of Soils (Modified Effort) | 0 Tests | \$210.00 /Test | \$0.00 |
| T193 | -- | Illinois Bearing Ratio (1 point) | 0 Tests | \$500.00 /Test | \$0.00 |
| T193 | D1883 | California Bearing Ratio (3 points) | 0 Tests | \$920.00 /Test | \$0.00 |
| <u>Coefficient of Permeability</u> | | | | | |
| T215 | D2434 | Hydraulic Conductivity (Constant Head) | 0 Tests | \$450.00 /Test | \$0.00 |
| -- | D5084 | Hydraulic Conductivity (Flexible Wall) | 0 Tests | \$475.00 /Test | \$0.00 |
| <u>Additional Sample Preparation Procedures</u> | | | | | |
| | | Removal of Organic Matter | 0 Samples | \$87.00 /Sample | \$0.00 |
| | | Extrusion & Preservation of Undisturbed Samples | 0 Samples | \$28.00 /Sample | \$0.00 |
| | | Logging & Classification of Undisturbed Samples | 0 Samples | \$65.00 /Sample | \$0.00 |
| | | Remolding and Trimming of Samples | 0 Samples | \$62.00 /Sample | \$0.00 |
| <u>Planting Soil Mix Testing</u> | | | | | |
| | | <i>Chemical Analyses & Mitigation Recommendations (300 g sample required)</i> | | | |
| | | pH, CEC, Soluble Salts, OM, P, K, Other Nutrients | 0 Tests | \$115.00 /Test | \$0.00 |
| | | Residual Chemicals, Herbicides Full Screen | 0 Tests | \$645.00 /Test | \$0.00 |
| | | <i>Mechanical Analyses & Mitigation Recommendations (1,000 g sample required)</i> | | | |
| T88 | D422 | Combined Sieve and Hydrometer | 0 Tests | \$122.00 /Test | \$0.00 |
| <u>Analytical Laboratory Services - for CCDD</u> | | | | | |
| | | Volatile Organic Components (VOC) | 0 No | \$200.00 /Each | \$0.00 |
| | | SemiVOC including PNA's | 0 No | \$335.00 /Each | \$0.00 |
| | | PCB | 0 No | \$135.00 /Each | \$0.00 |
| | | Total Metals | 0 No | \$210.00 /Each | \$0.00 |
| | | PH Determination | 0 No | \$23.00 /Each | \$0.00 |
| <u>Corrosion Testing</u> | | | | | |
| | | (Resistivity, Chlorides, pH, Redox, and Sulfates) | 0 No | \$330.00 /Each | \$0.00 |
| | | | | \$ | 297.00 |



**GEOTECHNICAL SERVICES
UNIT PRICES
2018**



Name: Villa Avenue Bridge Phase I
Project: Top Slab Replacement
Contract/Job: n.a

Date: 02/22/2019
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|---|-----------|------------------|--------------------|
| TRAFFIC CONTROL | | | |
| <u>Expressway (1/2 mile)</u> | | | |
| Shoulder Closure | 0.0 No. | \$800.00 /Each | \$0.00 |
| One-lane Closure | 0.0 No. | \$2,500.00 /Each | \$0.00 |
| Two-lane Closure | 0.0 No. | \$2,700.00 /Each | \$0.00 |
| Three-lane Closure | 0.0 No. | \$3,650.00 /Each | \$0.00 |
| Ramp Closure | 0.0 No. | \$850.00 /Each | \$0.00 |
| Additional 1/2 mile | 0.0 No. | \$100.00 /Each | \$0.00 |
| <u>Arterial (1/2 mile)</u> | | | |
| Shoulder Closure | 0.0 No. | \$700.00 /Each | \$0.00 |
| One-lane Closure | 1.0 No. | \$800.00 /Each | \$800.00 |
| Two-lane Closure | 0.0 No. | \$900.00 /Each | \$0.00 |
| Detour | 0.0 No. | \$800.00 /Each | \$0.00 |
| U-2 | 0.0 No. | \$1,100.00 /Each | \$0.00 |
| Additional 1/2 mile | 0.0 No. | \$100.00 /Each | \$0.00 |
| <u>Impact Attenuator with Driver</u> | | | |
| Port-to-Port | 0.0 Hours | \$185.00 /Hour | \$0.00 |
| <u>Roadway Flagmen (two-man crew)</u> | | | |
| Port-to-Port | 0.0 Hours | \$250.00 /Hour | \$0.00 |
| | | | \$ 800.00 |
| FIELD VEHICLES & MILEAGE | | | |
| <u>Field Vehicle</u> | | | |
| Field Vehicle Mileage (>100 Miles per Day) | 0.0 Miles | \$0.535 /Mile | \$0.00 |
| Field Vehicle Daily (<100 Miles per Day) | 2 Days | \$65.00 /Day | \$130.00 |
| | | | \$ 130.00 |
| OUT-OF-TOWN EXPENSES | | | |
| <u>Lodging</u> | 0 Days | \$100.00 /Day | \$0.00 |
| <u>Per Diem</u> | 0 Days | \$50.00 /Day | \$0.00 |
| | | | \$ - |
| ENGINEERING, REPORTING & MANAGEMENT | | | |
| <u>Desk Study, Site Access & Permitting</u> | | | |
| Senior Engineer | 0.0 Hours | \$168.85 /Hour | \$0.00 |
| Project Engineer/Project Geologist | 2.0 Hours | \$103.03 /Hour | \$206.06 |
| Assistant Engineer/Assistant Geologist | 4.0 Hours | \$71.28 /Hour | \$285.12 |
| <u>Field Activities</u> | | | |
| Project Engineer/Project Geologist | 2.0 Hours | \$103.03 /Hour | \$206.06 |
| Assistant Engineer/Assistant Geologist | 4.0 Hours | \$71.28 /Hour | \$285.12 |
| <u>Laboratory Testing</u> | | | |
| Project Engineer/Project Geologist | 0.0 Hours | \$103.03 /Hour | \$0.00 |
| Laboratory Technician | 0.0 Hours | \$70.48 /Hour | \$0.00 |
| <u>Data Analyses & Engineering</u> | | | |
| Senior Engineer | 0.0 Hours | \$168.85 /Hour | \$0.00 |
| Project Engineer/Project Geologist | 5.0 Hours | \$103.03 /Hour | \$515.15 |
| Assistant Engineer/Assistant Geologist | 5.0 Hours | \$71.28 /Hour | \$356.40 |
| <u>Report Preparation</u> | | | |
| Senior Engineer | 5.0 Hours | \$168.85 /Hour | \$844.25 |
| Project Engineer/Project Geologist | 5.0 Hours | \$103.03 /Hour | \$515.15 |
| Assistant Engineer/Assistant Geologist | 0.0 Hours | \$71.28 /Hour | \$0.00 |
| QC/QA Reviewer | 1.0 Hours | \$196.62 /Hour | \$196.62 |
| <u>Project Management</u> | | | |
| Principal in Charge | 0.0 Hours | \$200.44 /Hour | \$0.00 |
| Project Manager | 1.0 Hours | \$168.85 /Hour | \$168.85 |
| Administrative Assistant | 1.0 Hours | \$92.79 /Hour | \$92.79 |
| | | | \$ 3,671.57 |

1145 N Main Street
Lombard, IL 60148
630 953-9928



**GEOTECHNICAL SERVICES
UNIT PRICES
2018**



Name: Villa Avenue Bridge Phase I
Project: Top Slab Replacement
Contract/Job: n.a

Date: 02/22/2019
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|--|-------------|----------------|--------------------|
| SUMMARY | | | |
| DRILLING, SAMPLING & INSITU TESTING | | | \$1,698.76 |
| LABORATORY TESTING | | | \$297.00 |
| TRAFFIC CONTROL | | | \$800.00 |
| FIELD VEHICLES & MILEAGE | | | \$130.00 |
| OUT-OF-TOWN EXPENSES | | | \$0.00 |
| | | | \$ 2,925.76 |
| ENGINEERING, REPORTING & MANAGEMENT | | | |
| Principal in Charge | 0.0 Hours | \$200.44 /Hour | \$0.00 |
| Project Manager | 1.0 Hours | \$168.85 /Hour | \$168.85 |
| Senior Engineer | 5.0 Hours | \$168.85 /Hour | \$844.25 |
| Project Engineer/Project Geologist | 14.0 Hours | \$103.03 /Hour | \$1,442.42 |
| Assistant Engineer/Assistant Geologist | 13.0 Hours | \$71.28 /Hour | \$926.64 |
| Laboratory Technician | 0.0 Hours | \$70.48 /Hour | \$0.00 |
| Administrative Assistant | 1.0 Hours | \$92.79 /Hour | \$92.79 |
| QC/QA Reviewer | 1.0 Hours | \$196.62 /Hour | \$196.62 |
| | <u>35.0</u> | | \$ 3,671.57 |
| | | TOTAL | \$ 6,597.33 |

May 19, 2023

Mr. Matthew Santeford, P.E., S.E.
Project Manager
TranSystems Corporation
1475 E. Woodfield Road, Suite 600
Schaumburg, Illinois 60173

Re: Proposal - Geotechnical Engineering Services
Villa Avenue Top Slab Replacements
Phase I
Villa Park, Illinois
Wang No.: P190233 V02

Dear Mr. Santeford:

Wang Engineering, Inc., A Terracon Company (Wang) is pleased to present our proposal to provide geotechnical engineering services to support Phase I design of the proposed Villa Avenue Bridge improvements in the village of Villa Park, DuPage County, Illinois. The following describes our proposed scope of work and assumptions made in developing the cost estimate.

SCOPE OF WORK

Wang understands the existing triple cell culvert carries Villa Avenue over Sugar Creek, about 4,000 feet north of the intersection with Roosevelt Road. This culvert was originally constructed in 1968 and consists of three cells that are 9 feet wide and 4 feet tall, for a total structure length of 29.7 feet. The structure has a rating of 4 (poor condition). We understand the existing culvert will not be replaced with a new one. Thus, only top slab will be replaced.

Geotechnical Drilling: As proposed by TranSystems, Wang will provide equipment, labor, and associated materials to drill and sample two roadway borings to an approximate depth of 10 feet below ground surface (bgs) for a total of 20 feet of drilling. The roadway borings will be sampled continuously to the termination depths. Soil samples will be taken with split-spoon samplers according to AASHTO T-206, "Penetration Test and Split-Barrel Sampling of Soils." The borings will be backfilled with bentonite and soil cuttings immediately after completion and, the pavement will be patched.

Field Supervision: Before starting the investigation, a Wang representative will mark the boring locations in the field, and clear utilities through JULIE One-Call. A field engineer will monitor the geotechnical drilling and will coordinate traffic control. The field engineer will also maintain daily field notes, log the soil borings, as well as receive, classify, and prepare soil samples for

laboratory analysis, perform penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples. He/ she will also observe the groundwater level in boreholes. State Plane northing and easting coordinates of the as-drilled boring locations will be surveyed with a mapping-grade GPS unit.

Laboratory Testing: After the completion of the drilling phase, the soil samples will be delivered to our in-house IDOT- and AASHTO-certified laboratory in Lombard, Illinois. The soil testing program will include natural moisture content on all samples, Atterberg limits, and particle size analysis on select sample.

Engineering Analysis and Recommendations: One geotechnical report will be prepared for addressing the roadway approach improvements. The report will include a detailed description of soil and groundwater conditions encountered, field and laboratory testing procedures, geotechnical engineering analysis performed, and recommendations for the construction of the approach roadway. The report will also include a site location map, a boring location plan, boring logs, and laboratory tests results.

SCHEDULING

We anticipate that, after utility clearance, four hours will be necessary to complete the field work. The laboratory testing program will be completed within one week after the field activity completion. The geotechnical report will be finalized one week after the completion of the testing program.

ESTIMATED COST AND ASSUMPTIONS

Wang proposes to provide the above tasks on time and expense basis according to the attached cost estimate. Wang would not exceed the estimated upper limit without the Client approval. In preparing the cost estimate we have assumed the following conditions:

- Traffic control will be necessary and has been included in the cost estimate;
- The boring locations are accessible to a Truck-mounted drill rig; and
- No hazardous materials are encountered.

Wang Engineering, Inc. appreciates the opportunity to present this proposal. If you have questions, or if you require additional information, please contact us at (630) 953-9928.

Sincerely,

WANG ENGINEERING, INC.

Andri A. Kurnia, P.E.
Senior Engineer

Liviu Iordache, P.G.
Department Manager III



**GEOTECHNICAL SERVICES
UNIT PRICES
2023**



Name: Villa Avenue Bridge Alt 1 Phase 1
RFP/PTB/PSB/Item: Top Slab Replacement
Contract/Job: n.a.

Date: 05/19/2023
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|---|-----------|------------------|-------------------|
| DRILLING, SAMPLING & INSITU TESTING | | | |
| Drilling Coordination, Utilities Clearance, Site Access, Permitting | 1.0 Hours | \$120.00 /Hour | \$120.00 |
| Mobilization (ATV mounted) | 0 | \$1,700.00 /Each | \$0.00 |
| Stand-by Hourly Rate | 0.0 Hours | \$485.00 /Hour | \$0.00 |
| <u>Drilling & Sampling - Hourly (SPT, Penetrometer, Rimac, Visual Classification Included)</u> | | | |
| Two-man crew - normal working hrs | 4.0 Hours | \$485.00 /Hour | \$1,940.00 |
| Two-man crew - overtime (2 hrs per day) | 0.0 Hours | \$535.00 /Hour | \$0.00 |
| <u>Hand Augering, Pavement/ Deck Coring & Testing</u> | | | |
| Two-man crew - normal working hrs | 0.0 Hours | \$485.00 /Hour | \$0.00 |
| Two-man crew - overtime (2 hrs per day) | 0.0 Hours | \$535.00 /Hour | \$0.00 |
| Asbestos content testing on deck cores | 0 Tests | \$200.00 /Test | \$0.00 |
| <u>Surveying of Boring Locations (Two-man crew)</u> | | | |
| | 0.0 Hours | \$300.00 /Hour | \$0.00 |
| <u>Monitoring Well or Inclinometer Installation</u> | | | |
| <u>2.0- or 4-inch monitoring wells</u> | | | |
| Two-man crew - normal working hours | 0.0 Hours | \$485.00 /Hour | \$0.00 |
| Two-man crew - overtime (2 hours per day) | 0.0 Hours | \$535.00 /Hour | \$0.00 |
| <u>Inclinometer casing installation</u> | | | |
| Two-man drilling crew - normal working hours | 0.0 Hours | \$485.00 /Hour | \$0.00 |
| Two-man crew - overtime (2 hours per day) | 0.0 Hours | \$535.00 /Hour | \$0.00 |
| <u>Other items - at cost</u> | | | |
| 55-gallon DOT containment drums | 0.0 Drums | \$80.00 /Drum | \$0.00 |
| Digital datalogger and barometer | 0.0 Each | \$1,750.00 /Each | \$0.00 |
| Well and Casing Materials | At Cost | | \$0.00 |
| <u>Other Insitu Tests</u> | | | |
| Pressuremeter testing | 0 Days | \$3,750.00 /Day | \$0.00 |
| Vane shear | 0 Tests | \$325.00 /Test | \$0.00 |
| Dilatometer testing | At Cost | | \$0.00 |
| Cone penetration testing (CPT/CPTu) | At Cost | | \$0.00 |
| Photoionization detector (PID) | 0 Days | \$125.00 /Day | \$0.00 |
| Double ring infiltrometer test (ASTM D3385) | 0 Tests | \$1,500.00 /Test | \$0.00 |
| Single ring infiltrometer test (Chicago Stormwater Ordinance) | 0 Tests | \$750.00 /Test | \$0.00 |
| <u>Boring Location Accessibility, Railroad Fees, State/County/Municipal Fees, Barge Drilling</u> | | | |
| Private utility determination | At Cost | | \$0.00 |
| Tree clearance | At Cost | | \$0.00 |
| Guardrail removal and replacement | At Cost | | \$0.00 |
| Dozer / equipment rental | At Cost | | \$0.00 |
| Railroad permitting | At Cost | | \$0.00 |
| Railroad protective insurance | At Cost | | \$0.00 |
| Railroad flagman | At Cost | | \$0.00 |
| Pavement opening permit | At Cost | | \$0.00 |
| State/municipal insurance and bonding | At Cost | | \$0.00 |
| Barge drilling on a navigable waterway | At Cost | | \$0.00 |
| | | | \$2,060.00 |

1145 N Main Street
Lombard, IL 60148
630 953-9928

Name: Villa Avenue Bridge Alt 1 Phase I
RFP/PTB/PSB/Item: Top Slab Replacement
Contract/Job: n.a.

Date: 05/19/2023
Wang No.: P190233

| Task Description | | Units | Unit Price | Extended Cost | |
|--|-------|---|------------|------------------|----------|
| LABORATORY TESTING | | | | | |
| T265 | D2216 | Water Content | 10 Tests | \$14.00 /Test | \$140.00 |
| -- | D7263 | Unit Weight (Density) | 0 Tests | \$44.00 /Test | \$0.00 |
| T100 | D854 | Specific Gravity | 0 Tests | \$80.00 /Test | \$0.00 |
| -- | D4972 | pH of Soil | 0 Tests | \$68.00 /Test | \$0.00 |
| T267 | D2974 | Organic Content by LOI | 0 Tests | \$72.00 /Test | \$0.00 |
| T194 | -- | Organic Content by Wet Combustion | 0 Tests | \$160.00 /Test | \$0.00 |
| <u>Particle Size Distribution</u> | | | | | |
| T88 | D422 | Sieve Analysis | 0 Tests | \$96.00 /Test | \$0.00 |
| T88 | D422 | Combined Sieve and Hydrometer | 1 Tests | \$157.00 /Test | \$157.00 |
| -- | D1140 | Percent Finer than No. 200 Sieve | 0 Tests | \$64.00 /Test | \$0.00 |
| <u>Atterberg Limits</u> | | | | | |
| T89, T90 | D4318 | Liquid and Plastic Limits | 1 Tests | \$96.00 /Test | \$96.00 |
| T92 | D427 | Shrinkage Factors | 0 Tests | \$116.00 /Test | \$0.00 |
| <u>Classification of Soils</u> | | | | | |
| -- | D2488 | Visual Manual | 0 Samples | \$23.00 /Sample | \$0.00 |
| -- | D2487 | Unified Soil Classification System | 0 Samples | \$253.00 /Sample | \$0.00 |
| M145 | -- | AASHTO Classification | 0 Samples | \$253.00 /Sample | \$0.00 |
| -- | -- | USDA Classification | 0 Samples | \$157.00 /Sample | \$0.00 |
| <u>Soil Settlement, Swelling, and Collapse Potential</u> | | | | | |
| T216 | D2435 | One-Dimensional Consolidation | 0 Tests | \$700.00 /Test | \$0.00 |
| -- | D4546 | One-Dimensional Swell | 0 Tests | \$680.00 /Test | \$0.00 |
| -- | D5333 | Collapse Potential | 0 Tests | \$380.00 /Test | \$0.00 |
| <u>Shear Strength of Soil</u> | | | | | |
| | | Rimac Unconfined Compressive Strength | 0 Tests | \$20.00 /Test | \$0.00 |
| T208 | D2166 | Unconfined Compressive Strength | 0 Tests | \$100.00 /Test | \$0.00 |
| T236 | D3080 | Direct Shear of Soils (3 points) | 0 Tests | \$900.00 /Test | \$0.00 |
| T296 | D2850 | UU Triaxial Compression (3 points) | 0 Tests | \$426.00 /Test | \$0.00 |
| T297 | D4767 | CU Triaxial Compression (3 points) | 0 Tests | \$1,407.00 /Test | \$0.00 |
| T297 | D4767 | CD Triaxial Compression (3 points) | 0 Tests | \$1,407.00 /Test | \$0.00 |
| | D7012 | Peak Uniaxial Compressive Strength of Rock Core | 0 Tests | \$240.00 /Test | \$0.00 |
| <u>Laboratory Compaction Tests</u> | | | | | |
| T99 | D698 | Moisture-Density of Soils (Standard Effort) | 0 Tests | \$252.00 /Test | \$0.00 |
| T180 | D1557 | Moisture-Density of Soils (Modified Effort) | 0 Tests | \$264.00 /Test | \$0.00 |
| T193 | D1883 | California/Illinois Bearing Ratio (3 points) | 0 Tests | \$1,186.00 /Test | \$0.00 |
| <u>Coefficient of Permeability</u> | | | | | |
| T215 | D2434 | Hydraulic Conductivity (Constant Head) | 0 Tests | \$578.00 /Test | \$0.00 |
| -- | D5084 | Hydraulic Conductivity (Flexible Wall) | 0 Tests | \$607.00 /Test | \$0.00 |
| <u>Additional Sample Preparation Procedures</u> | | | | | |
| | | Removal of Organic Matter | 0 Samples | \$107.00 /Sample | \$0.00 |
| | | Extrusion & Preservation of Undisturbed Samples | 0 Samples | \$35.00 /Sample | \$0.00 |
| | | Logging & Classification of Undisturbed Samples | 0 Samples | \$80.00 /Sample | \$0.00 |
| | | Remolding and Trimming of Samples | 0 Samples | \$76.00 /Sample | \$0.00 |
| <u>Planting Soil Mix Testing</u> | | | | | |
| <i>Chemical Analyses & Mitigation Recommendations (300 g sample required)</i> | | | | | |
| | | pH, CEC, Soluble Salts, OM, P, K, Other Nutrients | 0 Tests | \$139.00 /Test | \$0.00 |
| | | Residual Chemicals, Herbicides Full Screen | 0 Tests | \$788.00 /Test | \$0.00 |
| <i>Mechanical Analyses & Mitigation Recommendations (1,000 g sample required)</i> | | | | | |
| T88 | D422 | Combined Sieve and Hydrometer | 0 Tests | \$157.00 /Test | \$0.00 |
| <u>Analytical Laboratory Services - for CCDD (200% fee for 3-day turn-around rush orders)</u> | | | | | |
| | | pH Determination | 0 No | \$17.00 /Each | \$0.00 |
| | | Volatile Organic Components (VOCs) | 0 No | \$121.00 /Each | \$0.00 |
| | | SemiVOCs including PNA's | 0 No | \$202.00 /Each | \$0.00 |
| | | PCBs | 0 No | \$83.00 /Each | \$0.00 |
| | | TCL Metals (23) | 0 No | \$161.00 /Each | \$0.00 |
| | | RCRA Total Metals (8) | 0 No | \$94.00 /Each | \$0.00 |
| | | TCLP/SPLP Extraction | 0 No | \$60.00 /Each | \$0.00 |
| | | TCLP/SPLP per each metal | 0 No | \$37.00 /Each | \$0.00 |
| | | Herbicides | 0 No | \$202.00 /Each | \$0.00 |
| | | Pesticides | 0 No | \$115.00 /Each | \$0.00 |
| <u>Corrosion Testing</u> | | | | | |
| | | (Resistivity, Chlorides, pH, Redox, and Sulfates) | 0 No | \$395.00 /Each | \$0.00 |
| | | | | \$393.00 | |



**GEOTECHNICAL SERVICES
UNIT PRICES
2023**



Name: Villa Avenue Bridge Alt 1 Phase 1
RFP/PTB/PSB/Item: Top Slab Replacement
Contract/Job: n.a.

Date: 05/19/2023
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|---------------------------------------|-----------|------------------|-------------------|
| TRAFFIC CONTROL | | | |
| <u>Expressway (1/2 mile)</u> | | | |
| Shoulder Closure | 0.0 No. | \$1,060.00 /Each | \$0.00 |
| One-lane Closure | 0.0 No. | \$3,450.00 /Each | \$0.00 |
| Two-lane Closure | 0.0 No. | \$3,660.00 /Each | \$0.00 |
| Three-lane Closure-Only Saturday | 0.0 No. | \$4,050.00 /Each | \$0.00 |
| Ramp Closure (Exit-Entrance) | 0.0 No. | \$1,090.00 /Each | \$0.00 |
| Additional 1/2 mile | 0.0 No. | \$100.00 /Each | \$0.00 |
| <u>Arterial (1/2 mile)</u> | | | |
| Shoulder Closure | 0.0 No. | \$900.00 /Each | \$0.00 |
| One-lane Closure | 1.0 No. | \$1,000.00 /Each | \$1,000.00 |
| Two-lane Closure | 0.0 No. | \$1,100.00 /Each | \$0.00 |
| Detour | 0.0 No. | \$1,100.00 /Each | \$0.00 |
| U-2 | 0.0 No. | \$1,300.00 /Each | \$0.00 |
| Standard #701421 (Over 45mph) | 0.0 No. | \$1,900.00 /Each | \$0.00 |
| <u>Impact Attenuator with Driver</u> | | | |
| Port-to-Port | 0.0 Hours | \$245.00 /Hour | \$0.00 |
| <u>Roadway Flagmen (two-man crew)</u> | | | |
| Port-to-Port | 0.0 Hours | \$250.00 /Hour | \$0.00 |
| | | | \$1,000.00 |

Note: Prices are for weekday only (Monday through Friday). Weekend rates (Saturdays and Sundays) are higher and will be provided per project

| FIELD VEHICLES & MILEAGE | | | |
|--|-----------|---------------|-----------------|
| <u>Field Vehicle</u> | | | |
| Field Vehicle Mileage (>100 Miles per Day) | 0.0 Miles | \$0.655 /Mile | \$0.00 |
| Field Vehicle Daily (<100 Miles per Day) | 2 Days | \$65.00 /Day | \$130.00 |
| | | | \$130.00 |

| OUT-OF-TOWN EXPENSES | | | | |
|-----------------------------|-----------------|--------|---------------|---------------|
| Per County | <u>Lodging</u> | 0 Days | \$100.00 /Day | \$0.00 |
| | <u>Per Diem</u> | 0 Days | \$50.00 /Day | \$0.00 |
| | | | | \$0.00 |

| ENGINEERING, REPORTING & MANAGEMENT | | | |
|---|-----------|----------------|-------------------|
| <u>Desk Study, Site Access & Permitting</u> | | | |
| Senior Engineer | 0.0 Hours | \$225.23 /Hour | \$0.00 |
| Project Engineer/Project Geologist | 2.0 Hours | \$143.34 /Hour | \$286.67 |
| Assistant Engineer/Assistant Geologist | 4.0 Hours | \$114.00 /Hour | \$456.01 |
| <u>Field Activities</u> | | | |
| Project Engineer/Project Geologist | 2.0 Hours | \$143.34 /Hour | \$286.67 |
| Assistant Engineer/Assistant Geologist | 4.0 Hours | \$114.00 /Hour | \$456.01 |
| <u>Laboratory Testing</u> | | | |
| Project Engineer/Project Geologist | 0.0 Hours | \$143.34 /Hour | \$0.00 |
| Laboratory Technician | 0.0 Hours | \$124.07 /Hour | \$0.00 |
| <u>Data Analyses & Engineering</u> | | | |
| Senior Engineer | 0.0 Hours | \$225.23 /Hour | \$0.00 |
| Project Engineer/Project Geologist | 5.0 Hours | \$143.34 /Hour | \$716.68 |
| Assistant Engineer/Assistant Geologist | 5.0 Hours | \$114.00 /Hour | \$570.02 |
| <u>Report Preparation</u> | | | |
| Senior Engineer | 5.0 Hours | \$225.23 /Hour | \$1,126.13 |
| Project Engineer/Project Geologist | 5.0 Hours | \$143.34 /Hour | \$716.68 |
| Assistant Engineer/Assistant Geologist | 0.0 Hours | \$114.00 /Hour | \$0.00 |
| QC/QA Reviewer | 1.0 Hours | \$268.43 /Hour | \$268.43 |
| <u>Project Management</u> | | | |
| Principal in Charge | 0.0 Hours | \$285.89 /Hour | \$0.00 |
| Project Manager | 1.0 Hours | \$225.23 /Hour | \$225.23 |
| Administrative Assistant | 1.0 Hours | \$122.09 /Hour | \$122.09 |
| | | | \$5,230.62 |

1145 N Main Street
Lombard, IL 60148
630 953-9928



**GEOTECHNICAL SERVICES
UNIT PRICES
2023**



Name: Villa Avenue Bridge Alt 1 Phase 1
RFP/PTB/PSB/Item: Top Slab Replacement
Contract/Job: n.a.

Date: 05/19/2023
Wang No.: P190233

| Task Description | Units | Unit Price | Extended Cost |
|--|-------------|----------------|-------------------|
| SUMMARY | | | |
| <i>DRILLING, SAMPLING & INSITU TESTING</i> | | | \$2,060.00 |
| <i>LABORATORY TESTING</i> | | | \$393.00 |
| <i>TRAFFIC CONTROL</i> | | | \$1,000.00 |
| <i>FIELD VEHICLES & MILEAGE</i> | | | \$130.00 |
| <i>OUT-OF-TOWN EXPENSES</i> | | | \$0.00 |
| | | | \$3,583.00 |
| <i>ENGINEERING, REPORTING & MANAGEMENT</i> | | | |
| Principal in Charge | 0.0 Hours | \$285.89 /Hour | \$0.00 |
| Project Manager | 1.0 Hours | \$225.23 /Hour | \$225.23 |
| Senior Engineer | 5.0 Hours | \$225.23 /Hour | \$1,126.13 |
| Project Engineer/Project Geologist | 14.0 Hours | \$143.34 /Hour | \$2,006.69 |
| Assistant Engineer/Assistant Geologist | 13.0 Hours | \$114.00 /Hour | \$1,482.04 |
| Laboratory Technician | 0.0 Hours | \$124.07 /Hour | \$0.00 |
| Administrative Assistant | 1.0 Hours | \$122.09 /Hour | \$122.09 |
| QC/QA Reviewer | 1.0 Hours | \$268.43 /Hour | \$268.43 |
| | <u>35.0</u> | | \$5,230.61 |
| | | TOTAL | \$8,813.61 |

Hey and Associates, Inc.

Villa Ave at Sugar Creek

September 19, 2024

Hey and Associates, Inc. (Hey) proposes the following scope for performing hydraulic modeling to demonstrate no adverse impacts for the Villa Ave. bridge project at Sugar Creek in Villa Park, Illinois. It is assumed that IDOT Local Roads will be reviewing this information for floodway permitting.

Task 1 – Hydraulic Modeling

Hey anticipates that due to the proposed superstructure replacement and its current elevation relative to regulatory flood elevations and floodway limits, IDOT will require a hydraulic analysis of the existing and proposed bridge to determine if the proposed work is meeting the IDNR-OWR Part 3708 requirements for floodway construction.

The work will be in accordance with the Bureau of Local Roads and Streets Manual Chapter 7-2 and use guidance from the IDOT Drainage Manual to complete an impact assessment.

Hey will obtain the Sugar Creek FEQ model from DuPage County and evaluate existing conditions and prepare a summary table of flood elevations for existing conditions for the historical storm series. Hey will then coordinate with TranSystems to review the proposed bridge plans and prepare an FEQUTL input for the proposed bridge and evaluate it in the main FEQ model. No additional work or updates to the FEQ model and its inputs are proposed. The summary table will be updated with proposed conditions to provide a comparison between existing and proposed conditions. Based on the scope of work of the proposed bridge, it is anticipated that the work will not cause a finding of significant impact. In addition, results will be compared to the DuPage County's Stormwater and Floodplain Ordinance Section 15-82.C.4 which describes how to provide comparison of FEQ flood elevations.

A brief summary memorandum will be provided for IDOT's review and concurrence.

If there is a chance for potentially significant impacts due to the proposed project, then there will likely be additional work to be completed including developing additional alternatives to "lower" the flood risk. That work is excluded from this scope and could be provided under a separate proposal if necessary.

Compensatory storage evaluation is not included in this scope.

Project Management and coordination is included in this task.

Assumptions / Work By Others

Hey includes the following assumptions:

- Topographic, hydraulic, and utility survey to be provided by others.
- Roadway / Bridge design plans, profile, and cross sections by others.
- Improvements to be at grade to the extent practicable and will be below base flood elevations.
- Wetland delineation, reporting, and impacts are not included in this work and shall be by others.
- Geotechnical borings, analyses and reporting by others.
- Compensatory storage evaluation and design by others.
- PBDHR is not included
- Threatened/endangered species compliance, cultural resources research by others.
- Permitting is not included.
- All deliverables shall be in electronic format. No paper copies are included.



EXHIBIT D
 COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET
 FIXED RAISE

| | | |
|--|---------------------------|---------------------------|
| Local Public Agency Villa Park | County DuPage | Section Number |
| Prime Consultant (Firm) Name TranSystems | Prepared By PML | Date 9/19/2024 |
| Consultant / Subconsultant Name Hey and Associates, Inc. | Job Number | |

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

FEQ Modeling of Villa Ave at Sugar Creek

PAYROLL ESCALATION TABLE

| | | | | |
|---------------|------------|--------|-------------------|---------|
| CONTRACT TERM | 6 | MONTHS | OVERHEAD RATE | 145.18% |
| START DATE | 10/14/2024 | | COMPLEXITY FACTOR | 0 |
| RAISE DATE | 1/1/2025 | | % OF RAISE | 2.00% |
| END DATE | 4/13/2025 | | | |

ESCALATION PER YEAR

| Year | First Date | Last Date | Months | % of Contract |
|------|------------|-----------|--------|---------------|
| 0 | 10/14/2024 | 1/1/2025 | 3 | 50.00% |
| 1 | 1/2/2025 | 4/1/2025 | 3 | 51.00% |

The total escalation = 1.00%

BLR 05514 (Rev. 02/09/23)
 ESCALATION

Local Public Agency

Villa Park

County

DuPage

Section Number

Job Number

Consultant / Subconsultant Name

Hey and Associates, Inc.

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project. EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

Table with 5 columns: ITEM, ALLOWABLE, QUANTITY, CONTRACT RATE, TOTAL. Rows include Lodging, Air Fare, Vehicle Mileage, etc., with a total of \$0.00.

Local Public Agency
Villa Park

County
DuPage

Section Number

Consultant / Subconsultant Name
Hey and Associates, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES
EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

| PAYROLL CLASSIFICATION | AVG HOURLY RATES | TOTAL PROJ. RATES | | | 1. Hydraulic Modeling | | | | | | | | | | | | | | |
|--|------------------------|-------------------|------------|--------------|-----------------------|------------|--------------|-------|------------|--------------|-------|------------|--------------|-------|------------|--------------|-------|------------|--------------|
| | | Hours | % Part. | Wgt'd Avg | Hours | % Part. | Wgt'd Avg | Hours | % Part. | Wgt'd Avg | Hours | % Part. | Wgt'd Avg | Hours | % Part. | Wgt'd Avg | Hours | % Part. | Wgt'd Avg |
| Senior Principal Engineer | 81.14 | 0.0 | | | | | | | | | | | | | | | | | |
| Senior Principal Ecologist | 76.09 | 0.0 | | | | | | | | | | | | | | | | | |
| Principal Civil Engineer | 70.23 | 4.0 | 14.29% | 10.03 | 4 | 14.29% | 10.03 | | | | | | | | | | | | |
| Senior Civil Engineer | 55.02 | 0.0 | | | | | | | | | | | | | | | | | |
| Civil Engineer V | 47.83 | 0.0 | | | | | | | | | | | | | | | | | |
| Civil Engineer IV | 41.35 | 24.0 | 85.71% | 35.44 | 24 | 85.71% | 35.44 | | | | | | | | | | | | |
| Civil Engineer I-III | 35.48 | 0.0 | | | | | | | | | | | | | | | | | |
| Engineering Technician I-II | 25.25 | 0.0 | | | | | | | | | | | | | | | | | |
| Environmental Services M | 51.96 | 0.0 | | | | | | | | | | | | | | | | | |
| Environmental Scientist V | 41.51 | 0.0 | | | | | | | | | | | | | | | | | |
| Environmental Scientist I-II | 30.36 | 0.0 | | | | | | | | | | | | | | | | | |
| Sr. Landscape Architect | 62.71 | 0.0 | | | | | | | | | | | | | | | | | |
| Landscape Architect IV | 38.89 | 0.0 | | | | | | | | | | | | | | | | | |
| Landscape Designer | 35.34 | 0.0 | | | | | | | | | | | | | | | | | |
| Sr. Project Scientist | 58.76 | 0.0 | | | | | | | | | | | | | | | | | |
| Sr. Erosion and Sediment Administration | 58.20 33.49 | 0.0 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | | |
| TOTALS | | 28.0 | 100% | \$45.47 | 28.0 | 100.00% | \$45.47 | 0.0 | 0% | \$0.00 | 0.0 | 0% | \$0.00 | 0.0 | 0% | \$0.00 | 0.0 | 0% | \$0.00 |