

July 21, 2022

Mr. Shane E. Schneider, P.E. Director of Transportation / County Engineer Lake County Division of Transportation 600 West Winchester Road Libertyville, IL 60048

Attention: Mr. Michael Lukich, P.E. Project Manager

Subject: Section No. 22-00082-11-WR, Lewis Avenue Phase I Preliminary Engineering Study Illinois Route 137 to Belvidere Road

Dear Mr. Lukich,

Parsons is pleased to submit the contract for the Lewis Avenue Phase I Preliminary Engineering Study for your processing. The following are included in the contract:

- BLR 05530
- Exhibit A Scope of Services
- Exhibit B Project Schedule
- Exhibit D BLR 05514 Cost Estimate of Consultant Services
- Exhibit E BLR 05514 Direct Costs Check Sheet
- Exhibit F Subconsultants Scope of Services, Cost Estimate of Consultant Services, Direct Costs
 - Jorgensen & Associates Survey, \$185,110
 - o HBK Engineering Portion of Existing Analysis (Utilities), \$68,310
 - o Huff & Huff Portion of Environmental Studies (Wetlands, Trees, PESA), \$47,896
 - o 2IM Group Drainage Studies, \$135,362
 - o GSG Consultants Geotechnical Studies, \$175,193
 - o Singh & Associates Portion of Alternative Analysis (Lighting), \$39,536
 - o Images Portion of Public Involvement (Public Relations), \$84,989

We look forward to beginning work on this exciting project. If you need anything further, please contact me at <u>Jeffrey.Hall@Parsons.com</u> or 312-930-5160.

Sincerely, Parsons

Jeffrey R. Hall, P.E.

Parsons PLUS envision more s





Local Public Agency Engineering Services Agreement

	Agreement For		Agreement T	уре
Using Federal Funds? 🗌 Yes 🛛 No	MFT PE		Original	
	LOCAL PUI	BLIC AGENCY		
Local Public Agency	Count	У	Section Number	Job Number
Lake County Division of Transport	ation Lake		22-00082-11-WR	
Project Number Contact Name		Phone Number	Email	
Mike Lukich		(847) 377-7474	mlukich@lakecou	intyil.gov
	SECTION	PROVISIONS		
Local Street/Road Name	Key Rout	te Lo	ength Structure	Number
Lewis Avenue		3	.14 miles	
Location Termini				Add Location
Illinois Route 137 to Belvidere Roa	ıd			Remove Location
Project Description				
Transportation's Bureau of Local F from Illinois Route 137 to Belvidere includes 9 Lewis Avenue intersection Argonne Drive, 16th Street, Audrey The project objectives are to recom- roadway safety, enhance non-mote work will build upon the Feasibility intersection traffic controls includin section. The work will produce a P alignments; alternatives analysis; i properties and environmental reso detention requirements; flood plain staging plan; public involvement; a communities, utility companies, pu The project will be funded with loca funding for construction. Engineering Funding	e Road within the Citi ions (at Illinois Route y Nixon Boulevard (1- nstruct the existing pa- orized travel, and effe Study that was comp or oundabout analys roject Development F ntersection design st urces; existing and p n determination; wetla and environmental as blic transportation ag	es of North Chic 137, 24th Stree 4th Street), 10th vement that is n ectively satisfy pro- pleted in June 20 is, appropriate n Report that includudies; evaluation roposed drainag and delineation; s sessments, and lencies, and pern all not be develop	ago and Waukegar t, Martin Luther Kin Street, Dugdale R earing the end of it rojected travel dem 021 and shall includ umber of travel lan des field surveys; h n of potential impact e studies including soils investigation, PESA. Coordination mitting agencies wi ped to be eligible for	n. Phase I Study ng Junior Drive, oad, Belvidere Road). ts useful life, increase nands. The Phase I de an investigation of es and roadway cross norizontal and vertical cts to adjacent identification of potential construction on with local II be part of the work.
			ake County	
Anticipated Construction Funding Fed	eral 🗌 MFT/TBP 📃 🤅	State 🛛 Other La	ake County	
	AGREE	MENT FOR		
Phase I - Preliminary Engineering] Phase II - Design Engin			
		SULTANT		
Prime Consultant (Firm) Name	Contact Name	Phone Number		
Parsons Transportation Group, Inc	Jeffrey Hall	(312) 930-57	Jeffrey.Hall@	Parsons.com
Address		City		State Zip Code
10 South Riverside, Suite 400		Chicago		IL 60606

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. Project funding allotted to the LPA by the

State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

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. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

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
In Responsible Charge	construction PROJECT A full time LPA employee authorized to administer inherently governmental PROJECT activities
Contractor	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 (BLR 05513 or BLR 05514)
- EXHIBIT E : Direct Costs Check Sheet (attach BDE 436 when using Lump Sum on Specific Rate Compensation)
- EXHIBIT F: Subconsultants Scope, CECS, Direct Costs

⊠ EXHIBIT G: Vendor Certification Form

⋈ EXHIBIT H: Vendor Disclosure Statement

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, 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. 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 US 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.
- 8. 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.
- 9. 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 affixed 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).

10. 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 Professional Services Selection Act (50 ILCS 510) (Exhibit C).
- 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.
 - (c) For Non-Federal County Projects (605 ILCS 5/5-409)
 - (1) 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 in all previous partial payments made to the ENGINEER.
 - (2) 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 STATE, a sum of money equal to the basic fee as determined in the 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:

Percent

Lump Sum

Specific Rate

Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

 $\ensuremath{\mathsf{OH}}$ is the firm's overhead rate applied to their $\ensuremath{\mathsf{DL}}$ and

- FF is the Fixed Fee.
 - Where FF = (0.33 + R) DL + %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 original 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. 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.

2. That the ENGINEER shall be responsible for any all damages to property or persons 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 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.

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.

- 3. 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 materials 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.
- 4. 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 prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for 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.
- 5. 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.
- 6. 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.
- 7. 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 and
 - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

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

8. 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 included but are not limited to: acts of God or a public enemy; acts 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.

9. 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
 - (a) able by the terms of the statement, and (b) notify the employer of any criminal drug statute conviction
 - (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 to 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 projects. 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.

- 10. 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.).
- 11. 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						
Parsons Transportation Group, Inc.	36-0982270	\$1,745,899.00						

Subconsultants	TIN/FEIN/SS Number	Agreement Amount			
Jorgensen & Associates, Inc.	36-3668574	\$185,110.00			
HBK Engineering, LLC	46-1255956	\$68,310.00			
Huff & Huff, Inc.	36-3044842	\$47,896.00			
2IM Group, LLC	42-1679389	\$135,362.00			
GSG Consultants, Inc.	36-3844476	\$175,193.00			

Singh & Associates, Inc.	36-3580306	\$39,536.00
Singh & Associates, Inc. Images, Inc.	45-0482737	\$84,989.00
	Subconsultant Total	\$736,396.00
	Prime Consultant Total	\$1,745,899.00
	Total for all work	\$2,482,295.00

	AGREEN	EMENT SIGNATURES	
Executed by the LPA:			
Executed by the LPA: Attest: The County of Local Public Agency Type Local Public Agency By (Signature & Date) By (Signature & Date) By (Signature & Date)			
Attest: Th	ne County of La	Lake County Division of Transportation	
By (Signature & Date)		By (Signature & Date)	
Attest: Local Public Agency Type Local Public Agency The County of Lake County Division of Transportation			
Executed by the LPA: Local Public Agency Type Attest: The County By (Signature & Date) Local Public Agency Type		Clerk	

(SEAL)

Executed by the ENGINEER:

	Prime Consultant (Firm) Name
Attest:	Parsons Transportation Group, Inc.

By (Signature & Date)

Julit

Title

Project Manager, 7/15/2022

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

By (Signature & Date)

Title

Vice President, 7/15/2022

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Parsons Transportation Group,	Lake	22-00082-11-WR
	EXHIBIT A SCOPE OF SERVICES		

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

See attached

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Parsons Transportation Group,	Lake	22-00082-11-WR
	EXHIBIT B PROJECT SCHEDULE		
See attached			

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transpor	Parsons Transportation Group,	Lake	22-00082-11-WR

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, in and administration) concerning engineering and design related consultant services?	management		
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5 specifically Section 5-5.06 (e) of the BLRS Manual?	-5 and		
3	Was the scope of services for this project clearly defined?			
4	Was public notice given for this project?			
5	Do the written QBS policies and procedures cover conflicts of interest?			
6	Do the written QBS policies and procedures use covered methods of verification for suspens debarment?	sion and		
7	Do the written QBS policies and procedures discuss the methods of evaluation?			
	Project Criteria	Weighting		
8	Do the written QBS policies and procedures discuss the method of selection?			
Sel	lection committee (titles) for this project			
	Top three consultants ranked for this project in order]	
	1			
	2			
	3			
9	Was an estimated cost of engineering for this project developed in-house prior to contract ne	egotiation?		
10	Were negotiations for this project performed in accordance with federal requirements.			
11	Were acceptable costs for this project verified?			
12	Do the written QBS policies and procedures cover review and approving for payment, before the request for reimbursement to IDOT for further review and approval?	e forwarding		
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of th (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to breaches to a contract, and resolution of disputes)?			
14	QBS according to State requirements used?			
15	Existing relationship used in lieu of QBS process?			
16	LPA is a home rule community (Exempt from QBS).			

Exhibit A Scope of Services

Lake County Division of Transportation Lewis Avenue Phase I Preliminary Engineering Study Illinois Route 137 to Belvidere Road Section 22-00082-11-WR July 21, 2022

Prepare Phase I, Preliminary Engineering Study, in accordance with the Illinois Department of Transportation of Transportation's Bureau of Local Roads & Streets Policies & Procedures for improvements along Lewis Avenue from Illinois Route 137 to Belvidere Road within the Cities of North Chicago and Waukegan. Phase I Study includes 9 Lewis Avenue intersections (at Illinois Route 137, 24th Street, Martin Luther King Junior Drive, Argonne Drive, 16th Street, Audrey Nixon Boulevard (14th Street), 10th Street, Dugdale Road, Belvidere Road). The project objectives are to reconstruct the existing pavement that is nearing the end of its useful life, increase roadway safety, enhance nonmotorized travel, and effectively satisfy projected travel demands. The Phase I work will build upon the Feasibility Study that was completed in June 2021 and shall include an investigation of intersection traffic controls including roundabout analysis, appropriate number of travel lanes and roadway cross section. The work will produce a Project Development Report that includes field surveys: horizontal and vertical alignments; alternatives analysis; intersection design studies; evaluation of potential impacts to adjacent properties and environmental resources; existing and proposed drainage studies including identification of detention requirements; flood plain determination; wetland delineation; soils investigation, potential construction staging plan; public involvement; and environmental assessments, and PESA. Coordination with local communities, utility companies, public transportation agencies, and permitting agencies will be part of the work. The project will be funded with local funds, the work shall not be developed to be eligible for possible federal funding for construction.

- 1. Data Collection
 - A. LCDOT supplied most recent Lake County aerials and Lake County GIS mapping for the study area during the feasibility study.
 - B. LCDOT supplied available limited existing plans for Lewis Avenue and its cross streets during the feasibility study.
 - C. LCDOT supplied available limited historical traffic counts and projections for the study area for comparison to project traffic studies.
 - D. Utilize January 2020 traffic counts completed during the feasibility study.
 - E. Request existing plans, utility atlases, and previous permitted development plans for Lewis Avenue and its cross streets from North Chicago
 - F. Request existing plans, utility atlases, and previous permitted development plans for Lewis Avenue and its cross streets from Waukegan
 - G. Will request existing plats of highway and centerline for Lewis Avenue and its cross streets from the County under the feasibility study contract
 - H. Will request most recent 5 years of crash statistics, crash reports, and crash diagrams from the County for each of the 9 intersections and 9 segments under the feasibility study contract. Data access will have been coordinated with LCDOT Traffic.
 - I. Request additional 2 years of crash statistics, crash reports, and crash diagrams from the County for each of the 9 intersections and 9 segments, as they become available. Data access will be coordinated with LCDOT Traffic.
 - J. Performed initial field visit and obtained photos to update project data from feasibility study under the feasibility study contract.
 - K. Perform field visit prior to final project report to update project data
- 2. Survey
 - A. Survey to be completed by Jorgensen in accordance with current Lake County Design Survey Procedures dated 2/22/21
 - B. The topographic survey to include: structures, ground shots, roadway and shoulders, guardrail, utilities, locate trees 6" and larger and trees less than 6" when such have been intentionally planted for landscaping, locate trees tagged by Huff & Huff on LCFPD property, soil borings and storm and sanitary sewer inverts within the project corridor. Cross sections will be completed every 50' and at every driveway.

- 1) Huff & Huff will tag all trees within or immediately adjacent to Forest Preserve properties with aluminum tree tags and once tagged, the trees will be surveyed by Jorgensen.
- 2) All trees outside of Forest Preserve property will be surveyed by Jorgensen and then catalogued by Huff & Huff.
- 3) Survey wetlands delineated by Huff & Huff
- 4) Survey soil boring and pavement core locations marked by GSG
- C. Survey limits along Lewis Avenue from south of IL137 to north of Belvidere Road. Survey will extend to 30 feet beyond the existing ROW and will include houses. Cross streets to be surveyed to limit of turn lane tapers at 9 signal/stop-controlled intersections and 150' for all other intersections
 - 1) Lewis Avenue 16,600' 150' south of IL137 to 1000' north of Belvidere Road
 - 2) Cross streets
 - a) IL137 500' west and 400' east
 - b) 24th Street 200' west and 200' east
 - c) Martin Luther King Junior Drive 300' west and 300' east
 - d) Argonne Drive 300' west and 300' east
 - e) 16th Street 200' west and 200' east
 - f) Audrey Nixon Boulevard (14th Street) 300' west and 300' east
 - g) 10th Street 200' west and 200' east
 - h) Dugdale Road 200' southwest and 200' northeast and 200' west (8th Parkway)
 - i) Belvidere Road 400' west and 200' east
- D. Survey will establish the existing centerline of Lewis and 9 signal/stop-controlled intersections and the existing ROW within the survey limits.
- E. Establish benchmarks and horizontal control points based on NGS geodetic survey monuments with G.P.S. survey methods. Locate and describe benchmarks. The project will be based on NAD '83(2011) and NGVD '88 datums. Establish and provide ties.
- F. Prepare "MicroStation" base file of the topographic survey and provide "GEOPAK" T.I.N. County will confirm versions of MicroStation and GEOPAK at notice to proceed and the versions will remain consistent through the project duration.
- G. Pick up survey and updated base files and TIN model after design identifies additional areas will be included in the future Phase II contract.
- H. All survey work will be completed according to the current Lake County Design Survey Procedures dated 2/22/21.
- I. Plats and legals are not included in Phase I for the parcels identified on Alternative B of the Feasibility Study. All plats and legals scope will be included in the future Phase II contract.
- 3. Existing Analysis
 - A. Establish existing centerline
 - B. Establish existing right-of-way
 - C. Establish existing property lines
 - D. Update existing mapping as data is received
 - E. Identify existing geometric deficiencies
 - F. Existing utilities to be completed by HBK
 - 1) Utility Identification and coordination
 - a) Initial coordination / Data Collection
 - i. LCDOT will supply utility contacts within the study area
 - ii. JULIE design stage / planning information request
 - iii. Request available utility maps and atlases from utility contacts
 - b) Utility Easement Research
 - i. Identify utility easements
 - c) Utility Locating
 - i. SUE Level D and B of electric, telecommunications, gas, underground traffic control facilities and interconnect, street lighting facilities, and water
 - d) Utility Survey
 - e) Utility Data Base Mapping
 - i. Based on completed survey, add utilities to existing mapping

- f) Preliminary Utility Design Review
 - i. Identify utility conflicts based on preferred improvement plan and proposed drainage plan
- g) Utility Coordination
 - i. Coordinate with utilities after conflicts to get confirmation
- h) Utility Coordination Meetings
 - i. Attend 1 joint utility coordination meeting

4. Traffic Studies

- A. Utilize January 2020 Traffic Counts from Feasibility Study.
- B. Utilize Existing Synchro Analysis at 9 intersections from Feasibility Study.
- C. Utilize 2050 Traffic Projections from Feasibility Study.
- D. Utilize 2050 Intersection Peak Hour Projections from Feasibility Study.
- E. Utilize Projected 2050 Synchro Analysis at 9 intersections from Feasibility Study.
 - 1) IL137
 - a) 2 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. EB left and WB left are LOS E
 - iii. Anticipate 1 additional alternative based on IDOT comments
 - 2) 24th Street
 - a) 2 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. No additional alternatives anticipated
 - 3) Martin Luther King Junior Drive
 - a) 2 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. No additional alternatives anticipated
 - 4) Argonne Drive
 - a) 2 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. No additional alternatives anticipated
 - 5) 16th Street
 - a) 3 alternatives completed in feasibility study
 - i. LOS E worst case
 - ii. NB approach and NB thru are LOS F
 - iii. Anticipate 1 additional alternative
 - 6) Audrey Nixon Boulevard (14th Street)
 - a) 2 alternatives completed in feasibility study
 - i. LOS D worst case
 - ii. No additional alternatives anticipated
 - 7) 10th Street
 - a) 2 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. No additional alternatives anticipated
 - 8) Dugdale Road / 8th Parkway
 - a) 3 alternatives completed in feasibility study
 - i. LOS C worst case
 - ii. NEB approach is LOS E
 - iii. Anticipate 1 additional alternative
 - 9) Belvidere Road
 - a) 3 alternatives completed in feasibility study
 - i. LOS D worst case
 - ii. EB left and NB thru are LOS E
 - iii. Anticipate 2 additional alternatives based on IDOT comments
- F. Pedestrian Use Observations

- In lieu of pedestrian counts from intersection traffic counts, observations of pedestrian usage during peak hours and peak school hours were completed during the feasibility study. Observations were summarized but counts were not performed during the feasibility study
- 2) Coordinate with school districts and schools for input on existing pedestrian traffic patterns
- 3) Summarize pedestrian issues at counted intersections, midblock crossings, school zones, and sidewalk deficiency locations.
 - a) Langley Street
 - i. Existing mid-block crossing
 - ii. Completed pedestrian observations during feasibility study at intersection at crossing for Great Lakes Housing and Pace Bus stop
 - b) 24th Street (Learn 10 Charter school at former Howard A. Yaeger School)
 - i. Does not meet stop control warrant
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
 - c) 20th Street (Neal Math and Science Academy)
 - i. Existing mid-block crossing
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
 - d) North Chicago Community High School
 - i. Existing unmarked mid-block crossing
 - ii. Solicit input from City and High School regarding football game parking
 - 17th Street (North Chicago Community High School)
 - i. Existing mid-block crossing
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
 - f) 16th Street (Novak King School Closed)
 - i. Does not meet stop control warrant
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
 - g) 9th Parkway (Lyon Magnet Elementary School)
 - i. Existing unmarked mid-block crossing
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
 - h) John R. Lewis Middle School
 - i. Existing unmarked mid-block crossing
 - ii. Completed pedestrian observations during feasibility study at intersection at morning and afternoon school crossings
- G. Warrant Analysis
 - 1) 24th Street

e)

- a) Does not meet stop control warrant
- b) Based on pedestrian observations and discussions with stakeholders, determine if stop sign on Lewis Avenue should be removed
- 2) 16th Street
 - a) Does not meet stop control warrant
 - b) Based on pedestrian observations and discussions with stakeholders, determine if stop sign on Lewis Avenue should be removed
- 3) 7 signalized intersections
 - a) Will complete warrant analysis for inclusion on Intersection Design Studies under feasibility study contract
- H. Crash Analysis
 - 1) Analyze 5 years of crash data and collision diagrams obtained from the County
 - Identify any crash locations with concerns involving number of crashes, wet crashes, and night crashes
 - 3) Prepare crash tables for 9 segments and 9 intersections

- 4) Prepare collision diagrams for 9 intersections
- 5) Identify safety improvement needs and countermeasures
- 6) Site visit to confirm crash analysis findings
- 7) Prepare draft Crash Report for identifying corridor deficiencies
- 8) Update crash analysis for 2 additional years of crash data as it becomes available
- 9) Include final Crash Report in the draft PDR
- 10) Crash Prediction based on FHWA Interactive Safety Design Model
- I. Roundabout Analysis
 - 1) No roundabout consideration at IDOT intersections at IL137 and Belvidere Road.
 - 2) Will prepare footprint analysis for all 7 remaining intersections under feasibility study contract.
 - a) Feasibility Study determined roundabouts would not fit without building impacts at 4 remaining intersections
 - Will complete capacity analysis at 3 intersections under feasibility study contract Argonne Drive, 10th Street, Dugdale Road
 - a) Complete SIDRA capacity analysis for existing 2020 and projected 2050 traffic for 3 intersections.
 - b) VISSIM analysis is not necessary.
 - 4) Geometric analysis at 3 intersections Argonne Drive, 10th Street, Dugdale Road
- J. Intersection Design Studies
 - 1) 7 signalized intersections for preferred alternative 7 sheets
 - 2) 2 stop-controlled intersections for preferred alternative 2 sheets
 - 3) Complete auto turn at each IDS 72 sheets
 - 4) Prepare IDS profile sheets 18 sheets
 - 5) Complete ADA detail sheets at 2 IDOT intersections at IL137 and Belvidere Road- 4 sheets
 - a) ADA detail sheets at 7 remaining intersections are not included and details will be provided in Phase II
 - 6) Complete Intersection sight distance sheets at 9 intersections 36 sheets
 - 7) Submit draft IDS at 9 intersections to LCDOT
 - 8) Address LCDOT comments
 - 9) Submit draft IDS at IL137 and Belvidere Road to IDOT
 - 10) Identify design exceptions
 - 11) Finalize 9 IDS
- K. Intersection sight distance sheets at 10 other cross streets. ADA detail sheets at 10 other cross streets are not included and details will be provided in Phase II.
 - 1) 16 sheets
- L. All signalized locations are currently connected to PASSAGE. County would like to upgrade the entire corridor 24 Single Mode fiber. Phase I scope of work will include the following on the plan and profile sheets and in the cost estimate:
 - 1) Add fiber from IL137 to Martin Luther King Junior Drive
 - 2) Replace fiber from Martin Luther King Junior Drive to Argonne Drive
 - 3) Add fiber from Argonne Drive to Audrey Nixon Boulevard (14th Street)
 - 4) Reuse or replace fiber from Audrey Nixon Boulevard (14th Street) to Belvidere Road
- 5. Environmental Studies
 - A. Assume Categorical Exclusion
 - B. GIS environmental resource base mapping started in feasibility study. Create environmental resource map.
 - C. Prepare ESR at project onset based on proposed ROW from feasibility study.
 - D. Provide photos of buildings older than 40 years requirements.
 - E. Assume ESR Addendum will be required once detailed proposed ROW has been identified. Prepare ESR Addendum.
 - F. Assume Cultural Resource Survey to be completed by IDOT
 - G. Assume Biological Resource Survey to be completed by IDOT.
 - 1) The project corridor is not within a Rusty Patch Bumblebee high priority area.

- 2) Submittal of the Environmental Survey Request will provide information on potential presence for threatened and endangered species and cultural resources.
- H. Huff & Huff scope of services
 - 1) Huff & Huff to complete Wetland Delineation
 - 2) Huff & Huff to complete Wetland Report
 - 3) Huff & Huff to complete Preliminary Jurisdictional Determination / Boundary Verification
 - 4) Huff & Huff to complete Wetland Impact Evaluation based on impacts given to them calculated from preferred improvement plan. Assume LCSMC isolated wetland impacts. Assume no wetlands are regulatory. Wetland mitigation will be banking. Banking and permitting will be coordinated in Phase II.
 - 5) Huff & Huff to complete Tree Survey. Jorgensen to pick up tree survey. Huff & Huff provide tree survey report and spreadsheets matching Jorgensen survey with tree tags.
 - a) Because of the forest preserve site, any impact to trees within the preserve would have to be documented meeting the tree survey guidelines of the Lake County Forest Preserve District.
 - b) Tree survey will be required for Section 4(f) lands
 - c) County needs tree survey for school properties
 - d) County desires tree survey be completed for entire project for consistency and availability during ROW negotiations in Phase II and construction during Phase III
 - 6) Huff & Huff to complete Tree Survey Report
 - 7) Huff & Huff to complete PESA. IDOT to complete PESA on IL137 and Belvidere Road ROW.
 - a) Based on preliminary review of online information the PESA will identify Potentially Impacted Properties (PIPs) along the Project Corridor among which include:
 - i. Twelve Leaking Underground Storage Tank (LUST) listings.
 - ii. One Site Remediation Program (SRP) listing.
 - iii. Multiple Bureau of Land (BOL) listings associated with the nearby Great Lakes Naval Training Center.
 - iv. Automotive repair and gasoline stations along the Project Corridor.
 - b) Based on the anticipated identified PIPs, the PESA will recommend the need for a Preliminary Site Investigation.
 - c) Assume PSI to be completed in Phase II and not in Phase I.
 - 8) Huff & Huff to complete PSI / CCDD scope under Phase II contract. IDOT to complete PSI for IL137 and Belvidere Road ROW in Phase II.
 - a) Prepare 663 Form and documents for submittal with PSI in Phase II.
 - b) H&H/GZA understands the importance of including TCLP iron testing to satisfy the requirements of select CCDD facilities in Lake County in Phase II
 - c) H&H/GZA is familiar with the need for Lake County Division of Transportation to request Pre-Approval Letters from at least three CCDD facilities in Phase II.
- I. Complete the purpose and need of the project for inclusion in the PDR
- J. Complete alternative development section
- K. Section 4(f)
 - 1) Complete Section 4(f) de minimis for impacts to Foss Park District
 - a) Meet with Foss Park District to introduce impacts
 - b) Prepare draft Section 4(f) de minimis document
 - c) Prepare draft letter for Foss Park District signature
 - d) Submit draft Section 4(f) de minimis package to Foss Park District
 - e) Address draft Section 4(f) de minimis comments
 - f) Submit final Section 4(f) de minimis package to Foss Park District for signature
 - g) Meet with Foss Park District to obtain signature
 - 2) Complete Section 4(f) de minimis for impacts to Greenbelt Forest Preserve
 - a) Meet with Lake County Forest Preserve District to introduce impacts
 - b) Prepare draft Section 4(f) de minimis document
 - c) Prepare draft letter for Lake County Forest Preserve District signature
 - d) Submit draft Section 4(f) de minimis package to Lake County Forest Preserve District

- e) Address draft Section 4(f) de minimis comments
- f) Submit final Section 4(f) de minimis package to Lake County Forest Preserve District for signature
- g) Meet with Lake County Forest Preserve District to obtain signature
- 3) Complete Section 4(f) de minimis for impacts to Corrine J Rose Park.
 - a) Meet with Waukegan Park District to introduce impacts
 - b) Prepare draft Section 4(f) de minimis document
 - c) Prepare draft letter for Waukegan Park District signature
 - d) Submit draft Section 4(f) de minimis package to Waukegan Park District
 - e) Address draft Section 4(f) de minimis comments
 - f) Submit final Section 4(f) de minimis package to Waukegan Park District for signature
 - g) Meet with Waukegan Park District to obtain signature
- L. Assume that no Section 6(f) properties exist.
- M. Complete list of required permits to be obtained in Phase II
- N. Assume Prime Farmland impacts is not anticipated
- 0. Assume Air Quality studies are not required. LCDOT will add the project to the TIP.
- P. Assume Project level Hot Spot Analysis is not required.
- Q. Assume COSIM is not required due to the traffic below threshold.
- R. Assume noise analysis is not required due to reduction of travel lanes from IL137 to Dugdale. Auxiliary turn lane being added from Dugdale to Belvidere and no noise receptor distance is being halved.
- S. Assume Environmental Justice is not required.
- T. Assume Socio/Economic studies are not required.
- 6. Drainage Studies
 - A. Drainage studies to be completed by 2IM
 - B. Prepare General Location Drainage Map
 - C. Identify existing drainage patterns. Complete existing drainage plan.
 - D. LCDOT Maintenance did not identify any drainage problems along the corridor. Any pavement or curb and gutter drainage issues will be corrected through the proposed drainage plans for the reconstructed roadway and will be identified. Identify drainage problems from flooding records is not included. Any drainage problems noted by the Cities of North Chicago and Waukegan, outside of the scope of roadway reconstruction, will be addressed in studies under the Phase II contract.
 - E. No floodways nor floodplains show up on FEMA maps.
 - F. No bridges, major culvert crossings, or pump stations are located within the corridor. Assume no hydraulic reports for major drainage features.
 - G. Determine drainage design criteria. Determine proposed drainage concept
 - H. Identify drainage outlets and constraints along project corridor.
 - I. Determining if detention is required by SMC based on the amount of widening for the preferred alternative. Calculate detention requirements for preferred improvement to meet SMC requirements or to meet existing outflow rates. Determining proposed detention concept
 - J. Determine proposed ROW and easement requirements for proposed drainage plan.
 - K. No drainage alternatives are included.
 - L. Coordinate drainage studies with Lake County DOT, Lake County SMC, IDOT, North Chicago, and Waukegan
 - M. Complete proposed drainage plan.
 - N. Assume no floodplain encroachments.
 - 0. Assume no IDNR-OWR Permit.
 - P. Complete water quality / BMP design.
 - Q. Complete Location Drainage Study
 - R. Complete drainage cost estimate
- 7. <u>Geotechnical Studies</u>
 - A. Geotechnical studies to be completed by GSG
 - B. Coordinate roadway soil borings, pavement cores, and retaining wall borings with LCDOT prior to any field work occurring. Attend one meeting with LCDOT.
 - C. Obtain JUILIE locates prior to field work.

- D. Obtain necessary traffic control permits from LCDOT, IDOT, North Chicago, and Waukegan.
- E. Roadway soil borings every 300' and near hydric soil locations. 51 subgrade borings total. Additional soil remediation delineation may be required under the Phase II contract.
- F. 2 Pavement cores at each distinct existing pavement location (14 cores total) to determine existing pavement composition and condition.
 - 1) IL137 to 24th Street reconstructed in 1992 and resurfaced in 2014 (2 cores)
 - 24th Street to Argonne Drive resurfaced in 2014 (2 cores in inside lanes and 2 cores in outside lanes)
 - Argonne Drive to Audrey Nixon Boulevard (14th Street) resurfaced in 2015 (2 cores in inside lanes and 2 cores in outside lanes)
 - Audrey Nixon Boulevard (14th Street) to Belvidere Road resurfaced in 2016 (2 cores in inside lanes and 2 cores in outside lanes
- G. Assess existing pavement condition
- H. Recommend proposed pavement design
- I. Existing retaining walls within corridor. Proposed retaining walls are assumed at the location of the existing retaining walls. Assume proposed retaining walls will be necessary at new locations to be determined in Phase I to avoid building, parking lot impacts. Proposed retaining walls at new locations are not included in the Phase I scope and will be included in the Phase II scope. Recommend identify new wall locations in Phase I and then do design and borings at these new locations in Phase II. Proposed retaining wall design at existing retaining wall locations. Assume proposed walls will be necessary to replace the existing retaining walls. Recommend design and borings at the following existing locations only for a total of 19 retaining wall borings under the Phase I scope:
 - 1) 45' long wooden wall; 1' tall. West side between 24^{th} Street and 23^{rd} Street.
 - 2) 80' long concrete block wall; 3' tall. West side between 24th Street and 23rd Street.
 - 147' long poured concrete wall; 2'-4' tall. West side between 23rd Street and Martin Luther King Junior Drive.
 - 4) Northeast corner of Martin Luther King Junior Drive
 - a) 128' along Lewis Avenue poured concrete wall; 4' tall. Northeast corner of Martin Luther King Junior Drive.
 - b) 266' along Martin Luther King Junior Drive poured concrete wall; 2'-3' tall. Northeast corner of Martin Luther King Junior Drive.
 - 5) 98' long concrete block wall; 0'-4' tall. West side just north of Martin Luther King Junior Drive.
 - 6) 422' long poured concrete wall, 1'-5' tall. West side just south of Argonne Drive.
 - 7) 52' long concrete block wall; 1'-2' tall. East side between 17th Street and 16th Street.
 - 8) 292' long wood and concrete landscaped wall; 0' 6' tall. Southwest corner of Belvidere Road.
 - 9) 300' along Atuie Street wooden wall, 1'-3' tall. Northeast corner of IL137.
- J. Traffic signal borings will only be necessary at intersections with poor soils. Necessary locations will be identified in Phase I but be performed in Phase II.
- K. Prepare preliminary geotechnical report including recommendations on retaining wall design and soil remediation
- L. Attend one meeting with LCDOT to discuss geotechnical recommendations
- M. Prepare final geotechnical report, including cost estimate of soil remediation
- 8. <u>Alternative Analysis</u>
 - A. Based on stakeholder involvement and initial public information meeting, confirm that Alternative B from the Feasibility Study is preferred
 - B. Pedestrian needs identified in Feasibility Study
 - C. Bicycle needs identified in Feasibility Study
 - D. Based on stakeholder involvement and initial public information meeting, confirm bike path on east side and sidewalk on west side.
 - 1) If cities do not want to participate in bike path, then sidewalks on both sides
 - E. Based on Alternative B, determine location of transition from 3-lane to 5-lane section south of Dugdale Road.
 - F. Based on Alternative B, determine proposed profile based on existing centerline

- G. Based on Alternative B on existing centerline, develop proposed cross sections every 50' and at each sidestreet and driveway
- H. Determine potential ROW and environmental impacts based on Alternative B on existing centerline
- I. Based on Alternative B, determine for each segment and each intersection if there is an advantage to shifting the centerline to the west or east
- J. Develop Alternative B west and east alternatives with potential ROW and environmental impacts
- K. Determine preferred alignment for Alternative B, west, center, and east
- L. Based on this preference, determine potential ROW and environmental impacts for Alternative A
- M. Prepare alternative analysis matrix based on Alternative A and B. Summarize differences in alternatives, including traffic performance, impacts, and costs. It is anticipated that alternative analysis at public meeting #2 will be based on just Alternatives A and B with potential for alternatives at individual intersections.
- N. Alternative analysis technical memo will not be required. Comparison matrix will be used at public meeting #2. Alternative analysis discussion will be included in project development report only.
- O. Based on pedestrian observations, stakeholder involvement, and initial public information, determine potential locations of mid-block crossings, including the recommended crossing treatment (signs, flashers, and/or refuge medians.
 - 1) Potential locations at
 - a) Langley Street
 - b) 24th Street (Learn 10 Charter School at former Howard A. Yaeger School)
 - c) 20th Street (Neal Math and Science Academy)
 - d) North Chicago Community High School
 - e) 17th Street (North Chicago Community High School)
 - f) 16th Street (Novak King School Closed)
 - g) 9th Parkway (Lyon Magnet Elementary School)
 - h) John R. Lewis Middle School
- P. Barrier warrant analysis not anticipated. If necessary, it will be completed in Phase II.
- Q. Based on Pace Bus coordination, provide bus pads at locations desired by Pace. Adjust cross sections and ROW analysis at these locations.
- R. Based on Pace Bus coordination, provide bus pullout widenings desired by Pace. Adjust cross sections and ROW analysis at these locations.
- S. Lighting Analysis to be completed by Singh
 - 1) Singh to provide existing lighting assessment for corridor.
 - Singh to prepare proposed roadway lighting concept including transition lighting on cross streets. Singh to determine if additional pedestrian lighting is desired and prepare proposed pedestrian lighting concept
 - 3) Singh to prepare Phase I lighting plans and cost estimate
 - 4) Singh to provide QAQC and Project Management of lighting analysis
- T. Aesthetics
 - 1) Aesthetics coordination will be at stakeholder coordination meetings. Aesthetic theme meetings are not included.
 - 2) Determine if North Chicago and/or Waukegan desire aesthetics along Lewis Avenue
 - 3) Aesthetics alternatives will be shown on the preferred improvement plan after determined by each city
 - a) Standard LCDOT roadway design
 - b) Enhanced landscaping aesthetics in each city
 - c) Streetscaping aesthetics in each city
- 9. Structural Studies
 - A. No existing culverts. Assume no proposed culverts.
 - B. Existing retaining walls within corridor. Proposed retaining walls are assumed at the location of the existing retaining walls. TS&L are not anticipated and not included in the scope.
 - C. Assume proposed retaining walls will be necessary at new locations to be determined in Phase I to avoid building, parking lot impacts. Proposed retaining walls at new locations are not included in the Phase I

scope and will be included in the Phase II scope. Recommend identify new wall locations in Phase I and then do design and borings at these new locations in Phase II.

- D. Proposed retaining wall design at existing retaining wall locations. Assume proposed walls will be necessary to replace the existing retaining walls. Recommend design and borings at existing locations only. The following existing wall locations will be shown on the preferred improvement plan, with a structural section with a proposed retaining wall recommendation, with inclusion in the project report, and cost estimate:
 - 1) 45' long wooden wall; 1' tall. West side between 24th Street and 23rd Street.
 - 2) 80' long concrete block wall; 3' tall. West side between 24th Street and 23rd Street.
 - 147' long poured concrete wall; 2'-4' tall. West side between 23rd Street and Martin Luther King Junior Drive.
 - 4) Northeast corner of Martin Luther King Junior Drive
 - a) 128' along Lewis Avenue poured concrete wall; 4' tall. Northeast corner of Martin Luther King Junior Drive.
 - b) 266' along Martin Luther King Junior Drive poured concrete wall; 2'-3' tall. Northeast corner of Martin Luther King Junior Drive.
 - 5) 98' long concrete block wall; 0'-4' tall. West side just north of Martin Luther King Junior Drive.
 - 6) 422' long poured concrete wall, 1'-5' tall. West side just south of Argonne Drive.
 - 7) 52' long concrete block wall; 1'-2' tall. East side between 17th Street and 16th Street.
 - 8) 292' long wood and concrete landscaped wall; 0' 6' tall. Southwest corner of Belvidere Road.
 - 9) 300' along Atuie Street wooden wall, 1'-3' tall. Northeast corner of IL137.

10. Project Development Report

- A. Determine design guidelines, functional classification, speed limits for PDR
- B. Description of existing facility
- C. Determine proposed pavement design
- D. Describe contiguous section north of Belvidere Road
- E. Summarize coordination and stakeholder involvement.
- F. Summarize traffic studies.
- G. Summarize alternative analysis.
- H. Summarize preferred alternative.
- I. Describe items affecting improvements
- J. Summarize design exceptions
- K. Summarize Non-motorized accommodations
- L. Incorporate Crash analysis
- M. Summarize ROW takes, displaced residents, businesses
- N. Summarize Work zone transportation management plans
- 0. PDR Exhibits
 - 1) Location map, functional classification map
 - 2) Preferred Improvement Plans
 - a) Cover Sheet 1 sheet
 - b) Alignment 3 sheets
 - c) Typical Sections 13 sheets
 - d) Plans with striping, proposed ROW, and easements 12 sheets
 - e) Profiles 12 sheets
 - f) Cross Sections 108 sheets
 - g) Signing is not included
 - 3) IDS (included in Traffic Analysis)
 - 4) Collision diagrams (included in Traffic Analysis)
- P. Prepare Cost Estimate
 - 1) Prepare Cost sharing estimate for other agencies.
- Q. Determine programming breakdown
 - At this time, it is anticipated that 2 phase II projects will be determined with a dividing line at Audrey Nixon Boulevard (14th Street)

- R. Federal funding for construction is not being pursued for the project. Grant Applications will not be completed.
- S. Submit Draft Report to LCDOT.
- T. Address LCDOT Draft Report comments.
- U. Address Draft Report comments.
- V. Submit Pre-Final Report to LCDOT.
- W. Address LCDOT Pre-Final Report comments.
- X. Finalize Report and submit to LCDOT for approval.

11. Traffic Management

- A. Based on preferred alternative and programming, determine staging concept of number of lanes during construction
- B. Determine staging concept for segments and each intersection
- C. Determine if a Detour Plan is necessary
- D. Develop staging typical sections for each segment
- E. Develop staging plans
- F. Develop draft Traffic Management Analysis Report
- G. Address County comments
- H. Incorporate Traffic Management Analysis Report into PDR

12. Coordination

- A. Meet and coordinate with LCDOT
 - 1) Anticipate 7 meetings
- B. Meet and coordinate with City of North Chicago
 - 1) Anticipate 3 meetings (Kickoff, Prior to initial public meeting, Prior to final public meeting)
- C. Meet and coordinate with City of Waukegan
 - 1) Anticipate 3 meetings (Kickoff, Prior to initial public meeting, Prior to final public meeting)
- D. Stakeholder Involvement Group are not anticipated due to preferred alternative is the minimal impact
- E. Coordinate with North Chicago School District 187, Waukegan Community Unit School District 60, Foss Park District (North Chicago), Waukegan Park District, Lake County Forest Preserves, Lake County Stormwater Management, Great Lakes Navy Base, North Chicago Police Department, North Chicago Fire Department, Waukegan Police Department, Waukegan Fire Department, Pace Bus
 - 1) Submit project introduction letters requesting known issue areas.
 - 2) Provide response letters.
 - 3) Anticipate 2 meetings with each agency.
 - 4) Submit project summary letters prior to completion of project report.
 - 5) Provide response letters.
- F. IDOT Permits meetings
 - 1) Anticipate 1 kickoff meeting
- G. IDOT Geometric meetings
 - 1) Anticipate 2 meetings for IL137 and Belvidere Road
- H. IDOT/FHWA coordination meetings are not required due to federal funding for construction not being pursued for the project
- I. No meetings or coordination with individual property owners, residents, or businesses are anticipated. Any individual meetings will be completed by the County

13. Public Involvement

- A. Utilize LCDOT website for project website. Provide pdf exhibits as necessary to LCDOT so that the County can update the website. The County communications group does not need any assistance with website nor social media content.
- B. Assume no project logo
- C. Assume no stakeholder involvement group
- D. Public Meeting #1
 - 1) Introduce project scope, project team, schedule, existing analysis, project need, proposed alternatives without proposed ROW
 - 2) Conduct 2 dry run meetings with the County
 - 3) Conduct 1 in person meeting as open house format

- 4) Images to provide Spanish speaker
- 5) Provide exhibits and handouts to LCDOT for project website
- 6) Provide MicroStation files to LCDOT for virtual public meeting site prepared by Lake County GIS
- 7) County to secure public meeting location, possibly at Greenbelt Forest Preserve or one of the schools within the project limits. County will supply room dimensions for use in public meeting layout planning. County will arrange for schedule of location to be 1 hour prior to and 1 hour after scheduled meeting time to allow for setup and breakdown of room.
- 8) County will provide PIN numbers for property owner names and addresses. County will provide a database of names and addresses for use by Images.
- 9) Images to compile mailing list, including stakeholders and all adjacent property owners
- 10) Images to prepare postcard invitation and mail
- 11) Images to prepare public meeting notice for publication in newspaper
- 12) Images to prepare eblast invitation
- 13) Images to provide media packet to LCDOT
- 14) Images to send notice to cities and stakeholders for inclusion on their website and newsletter
- 15) Images to prepare bilingual brochure handout, sign-in sheets, and comment forms
- 16) Prepare FAQ
- 17) Automated slideshow is not included
- 18) Prepare meeting exhibits
 - a) Location Map
 - b) Existing aerials with existing mapping, environmental resources, existing photos
 - c) Existing graphics rendering at 8 locations based on photos at key locations
 - i. North Chicago Great Lakes Housing
 - ii. North Chicago residential
 - iii. North Chicago Neal Math and Science Academy
 - iv. North Chicago High School
 - v. Waukegan Greenbelt Forest Preserve
 - vi. Waukegan Lyon Magnet Elementary School
 - vii. Waukegan Lewis Middle School
 - viii. Waukegan commercial
 - d) Proposed alternatives with typical sections without proposed ROW
 - e) Crash analysis
 - f) Traffic analysis
 - g) Schedule
- 19) Collect and compile public information meeting comments received at meeting and directly after the meeting. Individual responses are not anticipated but comments received will be summarized in the meeting summary.
- 20) Prepare public information meeting summary, including updated FAQ.
- E. Public Meeting #2
 - 1) Provide project update, present alternative analysis, schedule, existing analysis, project need, proposed alternatives, preferred alternative, Section 4(f) impacts
 - 2) Conduct 2 dry run meetings with the County
 - 3) Conduct 1 in person meeting as open house format
 - 4) Images to provide Spanish speaker
 - 5) Provide exhibits and handouts to LCDOT for project website
 - 6) Provide MicroStation files to LCDOT for virtual public meeting site prepared by Lake County GIS
 - 7) County to secure public meeting location, possibly at Greenbelt Forest Preserve or one of the schools within the project limits. County will supply room dimensions for use in public meeting layout planning. County will arrange for schedule of location to be 1 hour prior to and 1 hour after scheduled meeting time to allow for setup and breakdown of room.
 - Images to update mailing list, including all initial meeting attendees and new adjacent property owners / residents
 - 9) Images to prepare postcard invitation and mail
 - 10) Images to prepare public meeting notice for publication in newspaper

- 11) Images to prepare eblast invitation
- 12) Images to provide media packet to LCDOT
- 13) Images to send notice to cities and stakeholders for inclusion on their website and newsletter
- 14) Images to prepare bilingual brochure handout, sign-in sheets, and comment forms
- 15) Prepare FAQ
- 16) Automated slideshow is not included
- 17) Prepare meeting exhibits
 - a) Update Location Map
 - b) Proposed aerials with existing mapping, environmental resources, existing photos, proposed ROW
 - c) Prepare Proposed graphics rendering at 8 locations
 - i. North Chicago Great Lakes Housing
 - ii. North Chicago residential
 - iii. North Chicago Neal Math and Science Academy
 - iv. North Chicago High School
 - v. Waukegan Greenbelt Forest Preserve
 - vi. Waukegan Lyon Magnet Elementary School
 - vii. Waukegan Lewis Middle School
 - viii. Waukegan commercial
 - d) Proposed alternatives with typical sections with proposed ROW
 - e) Update Crash analysis
 - f) Update Traffic analysis
 - g) Update Schedule
 - h) Implementation and staging plan
- 18) Images does not need to provide court reporter because FHWA 4(f) signoff is not required due to not using federal funding for construction.
- 19) Collect and compile public meeting comments received at meeting and directly after the meeting. Individual responses are not anticipated but comments received will be summarized in the meeting summary.
- 20) Prepare public meeting summary, including updated FAQ.
- 14. Quality Management
 - A. Provide QA/QC prior to each submittal.
- 15. Project Management
 - A. Provide project management staffing, scheduling, and budgeting.
 - B. Prepare and submit monthly invoices.
 - C. Coordinate project schedule with the County quarterly

Exhibit B Project Schedule

Lewis Avenue Phase I Preliminary Engineering Study Schedule

		20	22		2023							2024					
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
1 Data Collection																	
2 Survey																	
3 Existing Analysis																	
4 Traffic Studies																	
5 Environmental Studies																	
6 Drainage Studies																	
7 Geotechnical Studies																	
8 Alternative Analysis																	
9 Structural Studies																	
10 Project Development Report																	
11 Traffic Management																	
12 Coordination																	
13 Public Involvement																	
14 Quality Management																	
15 Project Management																	

Scope of Work Timeline



Review Time

Exhibit D BLR 05514 Cost Estimate of Consultant Services

EXHIBIT E



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency Lake County Division of Transportation Consultant (Firm) Name Parsons Transportation Group, Inc.		County Lake Prepared By JRH			Section Number 22-00082-11-WR Date 6/10/2022
	PAYROLL	ESCALATIO	N TABLE		
CONTRACT TERI START DAT RAISE DAT END DAT	E 9/1/2022 E 6/1/2023	MONTHS			ERHEAD RATE 114.39% EXITY FACTOR 0 % OF RAISE 2.00%
	ESCAL	ATION PER	YEAR		
Year	First Date	Last Date	Months	% of Contract	
0 1 2	9/1/2022 6/2/2023 6/2/2024	6/1/2023 6/1/2024 9/1/2024	9 12 3	37.50% 51.00% 13.01%	_
	The to	tal escalation =	1.51%		

Lake County Division of Trans Lake

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	1.51%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Senior Engineering Manager	\$78.00	\$78.00
Supervising Engineer	\$76.22	\$77.37
Principal Engineer	\$69.30	\$70.34
Senior Engineer	\$57.17	\$58.03
Engineer II	\$45.96	\$46.65
Engineer I	\$41.55	\$42.18
Associate Engineer	\$35.51	\$36.04
Senior Technician	\$52.24	\$53.03
Technician	\$43.04	\$43.69
Administrative Assistant	\$34.75	\$35.27

Local Public Agency	County	Section Number	_
Lake County Division of Transportation	Lake	22-00082-11-WR	

SUBCONSULTANTS

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

NAME	Direct Labor Total	Contribution to Prime Consultant
Jorgensen & Associates, Inc.	63,947.00	6,394.70
HBK	24,153.00	2,415.30
Huff & Huff, Inc.	14,718.00	1,471.80
2IM Group, LLC	60,132.00	6,013.20
GSG Consultants, Inc.	36,096.00	3,609.60
Singh & Associates, Inc.	13,554.00	1,355.40 2,754.20
Images, Inc.	27,542.00	2,754.20

Total

240,142.00

24,014.20

Local Public Agency Lake County Division of Transportation

County

Section Number

22-00082-11-WR

Lake

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE

114.39%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1. Data Collection	92	5,187	5,933		1,668		12,788	0.52%
2. Survey	226	12,299	14,068		3,955	185,110	215,432	8.68%
3. Existing Analysis	522	28,023	32,056		9,012	68,310	137,401	5.54%
4. Traffic Studies	2461	143,430	164,070		46,125		353,625	14.25%
5. Environmental Studies	930	58,623	67,059		18,852	47,896	192,430	7.75%
6. Drainage Studies	124	8,366	9,569		2,690	135,362	155,987	6.28%
7. Geotechnical Studies	192	11,951	13,670		3,843	175,193	204,657	8.24%
8. Alternative Analysis	1372	77,019	88,102		24,768	39,536	229,425	9.24%
9. Structural Studies	276	16,933	19,370		5,446		41,749	1.68%
10. Project Development Report	2080	107,846	123,365		34,682		265,893	10.71%
11. Traffic Mangement Analysis	476	24,611	28,153		7,915		60,679	2.44%
12. Coordination	1025	64,981	74,332		20,897		160,210	6.45%
13. Public Involvement	1504	86,036	98,416		27,668	84,989	297,109	11.97%
14. Quality Management	282	14,910	17,056		4,795		36,761	1.48%
15. Project Management	576	37,538	42,940		12,072		92,550	3.73%
Direct Costs		-	-	25,599	-		25,599	1.03%
Subconsultant DL					0		-	0.00%
TOTALS	12138	697,753	798,159	25,599	224,388	736,396	2,482,295	100.00%

1,495,912

The subconsultant fee has been adjusted due to 15% fixed fee cap.

County

Lake

Section Number

22-00082-11-WR

Local Public Agency Lake County Division of Transportation

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 3

PAYROLL	AVG	TOTAL PRO.	J. RATES		1. 0	Data Collect	tion		2. Survey		3. E	xisting Ana	alvsis	4.	Traffic Stu	dies	5. Envi	ironmental	Studies
	HOURLY	Hours	%	Wgtd	Hours	%	-	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Senior Engineering Manag	78.00	2,178.0	17.94%	14.00	17	18.48%	14.41	28	12.39%	9.66	55	10.54%	8.22	272	11.05%	8.62	269	28.92%	22.56
Supervising Engineer	77.37	56.0	0.46%	0.36															
Principal Engineer	70.34	815.0	6.71%	4.72										621	25.23%	17.75	140	15.05%	10.59
Senior Engineer	58.03	4,868.0	40.11%	23.27	44	47.83%	27.75	99	43.81%	25.42	252	48.28%	28.01	720	29.26%	16.98	349	37.53%	21.78
Engineer II	46.65	1,158.0	9.54%	4.45				48	21.24%	9.91	14	2.68%	1.25	220	8.94%	4.17	44	4.73%	2.21
Engineer I	42.18	2,801.0	23.08%	9.73	31	33.70%	14.21	48	21.24%	8.96	198	37.93%	16.00	628	25.52%	10.76	52	5.59%	2.36
Associate Engineer	36.04	0.0																	
Senior Technician	53.03	96.0	0.79%	0.42															
Technician	43.69	73.0	0.60%	0.26													73	7.85%	3.43
Administrative Assistant	35.27	93.0	0.77%	0.27				3	1.33%	0.47	3	0.57%	0.20				3	0.32%	0.11
TOTALS		12138.0	100%	\$57.49	92.0	100.00%	\$56.38	226.0	100%	\$54.42	522.0	100%	\$53.68	2461.0	100%	\$58.28	930.0	100%	\$63.04

County

Lake

Section Number

22-00082-11-WR

Local Public Agency Lake County Division of Transportation

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 2 OF 3

PAYROLL	AVG	6. Di	rainage Stu	udies	7. Geo	technical	Studies	8. Alt	ernative Ar	alysis	9. St	ructural St	udies	10. Pro	oject Devel Report	opment	11. Ti	raffic Mang Analysis	_
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Senior Engineering Manager	78.00	62	50.00%	39.00	52	27.08%	21.13	237	17.27%	13.47	13	4.71%	3.67	143	6.88%	5.36	32	6.72%	5.24
Supervising Engineer	77.37				22	11.46%	8.86				34	12.32%	9.53						
Principal Engineer	70.34													30	1.44%	1.01			
Senior Engineer	58.03	59	47.58%	27.61	78	40.63%	23.57	607	44.24%	25.67	229	82.97%	48.15	793	38.13%	22.12	194	40.76%	23.65
Engineer II	46.65							237	17.27%	8.06				353	16.97%	7.92	70	14.71%	6.86
Engineer I	42.18				37	19.27%	8.13	288	20.99%	8.85				761	36.59%	15.43	180	37.82%	15.95
Associate Engineer	36.04																		
Senior Technician	53.03																		
Technician	43.69																		
Administrative Assistant	35.27	3	2.42%	0.85	3	1.56%	0.55	3	0.22%	0.08									
TOTALS		124.0	100%	\$67.46	192.0	100%	\$62.24	1372.0	100%	\$56.14	276.0	100%	\$61.35	2080.0	100%	\$51.85	476.0	100%	\$51.70

County

Lake

Section Number

22-00082-11-WR

Local Public Agency Lake County Division of Transportation

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 3 OF 3

PAYROLL	AVG	12.	. Coordinat	ion	13. Pı	ublic Involv	vement	14. Qu	ality Mana	gement	15. Pro	oject Mana	gement		Direct Cos	ts			
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Senior Engineering Manager	78.00	358	34.93%	27.24	324	21.54%	16.80	28	9.93%	7.74	288	50.00%	39.00						
Supervising Engineer	77.37																		
Principal Engineer	70.34				24	1.60%	1.12												
Senior Engineer	58.03	563	54.93%	31.87	538	35.77%	20.76	127	45.04%	26.13	216	37.50%	21.76						
Engineer II	46.65				172	11.44%	5.34												
Engineer I	42.18	104	10.15%	4.28	347	23.07%	9.73	127	45.04%	18.99									
Associate Engineer	36.04																		
Senior Technician	53.03				96	6.38%	3.38												
Technician	43.69																		
Administrative Assistant	35.27				3	0.20%	0.07				72	12.50%	4.41						
TOTALS		1005.0	100%	¢62.40	1504.0	1000/	¢57.00	282.0	1000/	¢50.07	E76 0	100%	ФСЕ 1 7	0.0	09/	¢0.00	0.0	00/	00.02
TOTALS		1025.0	100%	\$63.40	1504.0	100%	\$57.20	282.0	100%	\$52.87	576.0	100%	\$65.17	0.0	0%	\$0.00	0.0	0%	\$0.00

Exhibit E BLR 05514 Direct Costs Check Sheet

Local Public Agency Lake County Division of Transportation

County Lake **Section Number**

22-00082-11-WR Job Number

Consultant / Subconsultant Name

Parsons Transportation Group, 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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD) Air Fare	Coach rate, actual cost, requires minimum two weeks'			\$0.00
Vehicle Mileage	notice, with prior IDOT approval Up to state rate maximum	13400	\$0.59	\$7,839.00
(per GOVERNOR'S TRAVEL CONTROL BOARD) Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost	134	\$10.00	\$1,340.00
Parking	Actual Cost	134	\$30.00	\$4,020.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	48	\$25.00	\$1,200.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)	112	\$100.00	\$11,200.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00

Exhibit F Subconsultants

Subconsultant:

Jorgensen & Associates



July 20, 2022

Mr. Jeffery R. Hall, P.E. PARSONS 10 S. Riverside Plaza Suite 400 Chicago, Illinois 60606

Re: Lewis Avenue Survey Proposal

Dear Mr. Hall:

Enclosed please find our revised proposal to prepare a topographic survey for the referenced project. Our proposal is based on your emails of May $5\underline{th}$ and June $7\underline{th}$ and our telephone conversations.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to developing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted, Jorgensen & Associates, Inc.

Christian H. Jorgensen, P.L.S. President

CHJ/pt

Enclosures

E:\Parsons\Lake\Lewis Ave\Letter

SCOPE OF SERVICES

Topographic Survey

General: The topographic survey to include: structures, ground shots, roadway and shoulders, guardrail, utilities, locate trees 6" and larger and trees less than 6" when such have been intentionally planted for landscaping, locate trees tagged by Huff & Huff on L.C.F.P.D. property, soil borings, wetlands and storm and sanitary sewer inverts within the project corridor.

The project corridor being 30 feet beyond the existing R.O.W. line (including cross streets) of Lewis Avenue from 150 feet South of Illinois Route 137 to 1,000 feet North of Belvidere Road. The cross streets being Illinois Route 137, 500 feet West and 400 feet East; Langley Street, 150 feet West and 100 feet East; 24th Street, 200 feet West and 200 feet East; 23rd Street, 150 feet West and 150 feet East; Martin Luther King Junior Drive, 300 feet West and 300 feet East; 21st Street, 150 feet West and 150 feet East; 20th Street, 150 feet West and 150 feet East; Argonne Drive, 300 feet West and 200 feet East; 17th Street, 150 feet East; Prairie View Court, 150 West; 16th Street, 200 feet West and 200 feet East; 10th Street, 200 feet West and 200 feet East; 10th Street, 200 feet West and 200 feet East; 9th Parkway, 150 feet West; 9th Parkway, 150 feet West; 8th Parkway, 200 feet West; Dugdale Road, 200 feet Southwest and 200 feet West and 150 feet East. The survey will include the establishment of the existing center line and R.O.W. lines within the project limits for Lewis Avenue and its cross streets.

Establish bench marks and horizontal control points based on NGS geodetic survey monuments with G.P.S. survey methods. Locate and describe bench marks. The project will be based on NAD '83(2011) and NGVD '88 datums.

Prepare "MicroStation" base file of the topographic survey and provide "GEOPAK" T.I.N.

All work will be completed according to the current Lake County Design Survey Procedures.

Route:Lewis AvenueSection:22-00082-11-WRCounty:LakeJob No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	% of Direct Productive <u>Payroll</u>
Federal Insurance Contributions Act	11.98%
State Unemployment Compensation	0.18%
Federal Unemployment Compensation	0.13%
Workmen's Compensation Insurance	1.08%
Paid Holidays, Vacation, Sick Leave, Personal Leave	11.18%
Bonus	6.61%
Pension	0.91%
Group Insurance	38.11%
Total Payroll Burden & Fringe Costs	70.18%

E:\Parsons\Lake\Lewis Ave\EXA

Route:Lewis AvenueSection:22-00082-11-WRCounty:LakeJob No.:

Exhibit "B"

Overhead and Indirect Costs

Overnead and indirect Costs	% of Direct Productive
	Ploductive Payroll
Business Insurance	4.90%
Depreciation	11.95%
Indirect wages and salaries	42.72%
Reproductive and printing costs	0.14%
Office Supplies	2.54%
Computer Costs	5.49%
Professional Fees	3.30%
Telephone	1.88%
Fees, license & dues	1.37%
Repairs and maintenance	0.82%
Business space rent	5.07%
Facilities - capital	0.74%
Travel - Meals	0.28%
Survey Supplies	1.94%
Automobile/travel expense	2.78%
Miscellaneous Expense	0.41%
Gain on sale of assets	(6.66%)
Postage	0.12%
Educational & Professional Registrations	0.24%
Recruiting	0.49%
Small Equipment Expense	0.27%

Total Overhead



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

EXHIBIT E

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00082-11-WR
Consultant (Firm) Name	Prepared By	Date

PAYROLL ESCALATION TABLE

CONTRACT TERM START DATE RAISE DATE	8/1/2022	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	
END DATE	7/31/2024		

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	8/1/2022	2/1/2023	6	25.00%
1	2/2/2023	2/1/2024	12	51.00%
2	2/2/2024	8/1/2024	6	26.01%

The total escalation = 2.01% Lake County Division of Trans Lake

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	2.01%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Supervisor, P.L.S.	\$45.00	\$45.90
Survey Party Chief, P.L.S.	\$31.50	\$32.13
Instrument Operator	\$20.25	\$20.66
Cadd Supervisor	\$34.50	\$35.19

Local Public Agency

County

Lake

Section Number

22-00082-11-WR

Lake County Division of Transportation

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE

150.97%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
(1) Field-Topographic Survey	1528	40,332	60,889	3,204	13,309		117,734	63.60%
(2) Office-Compile Field Data	242	10,016	15,122	317	3,305		28,760	15.54%
(3) Office-Create Topography Base File	268	9,432	14,239		3,113		26,784	14.47%
(4) Office-Create T.I.N. & Contours	31	1,091	1,647		360		3,098	1.67%
(5) QC/QA	67	3,076	4,643		1,015		8,734	4.72%
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
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TOTALS	2136	63,947	96,540	3,521	21,102		185,110	100.00%
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160,487

County

Lake

Section Number

22-00082-11-WR

Local Public Agency Lake County Division of Transportation

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL	AVG	TOTAL PROJ	J. RATES		(1) Fi	eld-Topogr Survey	aphic	(2) Off	ice-Compil Data	e Field) Office-Cro ography Ba		(4) Of	fice-Create Contours			(5) QC/QA	Δ
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Supervisor, P.L.S.	45.90	207.0	9.69%	4.45				140	57.85%	26.56							67	100.00%	45.90
Survey Party Chief, P.L.S.	32.13	764.0	35.77%	11.49	764	50.00%	16.07												
Instrument Operator	20.66	764.0	35.77%	7.39	764	50.00%	10.33												
Cadd Supervisor	35.19	401.0	18.77%	6.61				102	42.15%	14.83	268	100.00%	35.19	31	100.00%	35.19			
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Route:Lewis AvenueSection:22-00082-11-WRCounty:LakeJob No.:

Manhour Breakdown Topographic Survey Estimate

		Lewis Avenue Cross Streets	$ \pm 16,650' = \pm \\ \pm 7,450' = \pm $		
		Total Length	<u>+</u> 24,100'= <u>+</u>	4.564 miles	
1.	Field – Topographic	Survey			
	a. Measure trave 49 hours x 2 r	erse, level circuit & (nen =	G.P.S. survey		98 MH
	b. Search & loca 124 hours x 2	te existing R.O.W. & men =	& section lines		248 MH
	c. Locate existin 579 hours x 2	ng topography & inve men =	erts		1,158 MH
	d. Monument ex 8 hours x 2 m	isting center line alig en =	gnment		16 MH
	e. Monument/tie 4 hours x 2 m	e section & quarter co en =	orners		<u>8 MH</u>
				Sub-total Item #1	1,528 MH
2.	Office - Compile Fie	eld Data			
	a. Compute trav				
	24 hours x 1 r	erse, level circuit & nan =	G.P.S. survey		24 MH
	24 hours x 1 r b. Edit & compi 78 hours x 1 r	nan = le field data	G.P.S. survey		24 MH 78 MH
	b. Edit & compi	nan = le field data nan = ords	G.P.S. survey		
	 b. Edit & compil 78 hours x 1 r c. Research reco 4 hours x 1 m 	nan = le field data nan = ords an = ting R.O.W. lines	G.P.S. survey		78 MH

3.	Office - Create Existing Topography Base File		
	a. Layout and drafting 268 hours x 1 man =		268 MH
4.	Office - Create T.I.N. & Contours		
	a. Compute contours 31 hours x 1 man =		31 MH
5.	QC/QA		
	 a. Check topographic survey 60 hours x 1 man = 		60 MH
	b. Check contours 7 hours x 1 man =		7 MH
		Total All Items	2,136 MH

Route:Lewis AvenueSection:22-000822-11-WRCounty:LakeJob No.:

Breakdown of In House Direct Costs

Item

1.	Field -	Topographic Survey		
	a.	Trips to project site - 96 each \pm 36 miles/trip x 96 trips = \pm 3,456 miles \pm 3,456 miles @ \$0.58/mile =		\$2,004.48
	b.	Rental of Arrow Board Sign		<u>\$1,200.00</u>
			Sub-total Item #1	\$3,204.48
2.	Office	– Compile Field Data		
	a.	Trips to County Recorder - 1 each \pm 30 miles/trip x 1 trip = \pm 30 miles \pm 30 miles @ \$0.58/mile =		\$ 17.40
	b.	Miscellaneous Records =		<u>\$ 200.00</u>
			Total All Items	\$3,421.88



COMPANY NAME: Jorgensen & Associates, Inc.

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*If other allowable costs are needed and not listed, please add in the above spaces provided.

LEGEND

W.O. = Work Order J.S. = Job Specific



DESIGN SURVEY PROCEDURES



DESIGN SURVEY PROCEDURES (Revised 2/22/21)

HORIZONTAL ALIGNMENT

Unless otherwise specified in the services contract, the CONSULTANT is to provide the horizontal alignment. The CONSULTANT will conduct all surveying, stationing, and preparation of required plans using English units of measure and the U.S. Survey Foot. The CONSULTANT'S SURVEYOR will try to re-establish the original horizontal alignment as shown on the recorded R.O.W. plats. The CONSULTANT shall contact LCDOT's Land Surveyor to obtain R.O.W. plats and field notes before establishing the horizontal alignment and stationing. The CONSULTANT shall notify LCDOT's Surveyor immediately if the alignment cannot be reproduced or if in the CONSULTANT'S opinion the existing alignment information is in error.

The CONSULTANT'S SURVEYOR, prior to construction, shall stake the PCs, PIs, PTs, and POTs so that the alignment location can be verified before construction staking is initiated. The CONSULTANT'S SURVEYOR will provide four reference ties to all U.S. Public Land Survey Monuments that are located within the construction limits. The reference points should be located outside of the anticipated construction limits if practical, so that they can be used after construction to replace the monuments. The CONSULTANT shall record Monument Records for all Section and Quarter Section corners set or found within the construction limits.

The CONSULTANT will mark the baseline for relocated alignments when off pavement at the PCs, PTs, and POTs with iron rods. The rods shall be set one foot below the surface in farmed land. The CONSULTANT will advise the County of any pavement alignment variations. In cases where the proposed centerline of construction or survey baseline is different from the existing centerline of R.O.W., both shall be shown and the relationship between them shall be indicated on an Alignment & Tie sheet.

ALIGNMENT & TIE SHEET

An Alignment & Tie Sheet shall be provided as part of the final plans. The plans are to be prepared using English units of measure and the U.S. Survey Foot. The station, offset, and coordinates of the alignment points (PCs, PTs, PIs, and POTs) and survey control (traverse) points shall be shown. Coordinates for all projects shall be on the Illinois State Plane Coordinate System, - East zone, NAD83 (Adjustment). The grid (combination) factor for the project shall be shown. A list of traverse points with station, offset, and coordinates shall be provided.

VERTICAL ALIGNMENT

The North American Vertical Datum of 1988 (NAVD 88) shall be used for vertical control. Lake County Mapping Benchmarks are available on-line (<u>http://gis.lakeco.org/maps/</u>). NAVD88 benchmarks are available on-line from the National Geodetic Survey. LCDOT's Land Surveyor may also be contacted for benchmarks that may be in the area. The primary benchmarks and site benchmarks shall be listed and described on the Alignment & Tie Sheet. The location of the site benchmarks shall also be shown on the plan sheets with a symbol. Site benchmarks are to be located at less than 1000-foot intervals with a minimum of two (2) on each project.

All benchmarks shall be located on stable objects. LCDOT prefers these objects to be outside the construction limits. Some acceptable benchmark examples are, spikes in poles, bolts on fire hydrant rings, and concrete foundations.

<u>TOPOGRAPHY</u>

The CONSULTANT shall cut cross-sections on station at 50-foot intervals (i.e. XX+00.00 and XX+50.00) and at all points needing clarification. For areas of superelevation or requiring greater detail, cross-sections shall be cut on station at 25-foot intervals. The cross section interval should be defined in the engineering services contract.

Full cross-section profiles will be taken at all cross streets, alleys, cross road culverts, and entrances (commercial, private, and field). Half cross-sections will not be accepted because they skew the computer terrain model.

The CONSULTANT will locate and identify all trees (6 inches in diameter or greater) within the area either side of the centerline, defined by the proposed ROW or construction limits (whichever is greater) plus an additional 10 feet. The trees shall be identified by species and size. The trees shall be located by station/offset and have a ground elevation.

Streams, tributaries, or major drainage ditches located within a lateral distance of 250 feet from centerline (upstream and downstream) shall be surveyed. Alignment, profiles, and cross-sections shall be taken. The stream width shall be shown as the distance measured between the tops of the stream banks. Profile elevations along the bottom of the watercourse shall be taken at a minimum of 50-foot intervals.

The survey shall extend a minimum of 200 feet beyond the roadway construction limits. Crosssections shall be taken a minimum of 10 feet beyond the proposed R.O.W. or construction limits (whichever is greater). Cross-sections will extend 30 feet beyond the proposed R.O.W. at entrances and 150 feet at minor side roads.

All survey data shall be collected in Illinois State Plane Coordinates – East Zone. The collected survey data for the existing topography shall have a minimum of 3^{rd} Order Accuracy horizontally with readings to the nearest 0.1 feet for vertical on gravel or ground and readings to the nearest 0.01 feet for vertical on all other surfaces.

For ADA ramps: The Consultant shall not use GPS devices to collect vertical data or elevations for hard surfaces e.g. curb and gutter, sidewalk, bike paths etc.

RAILROAD INSURANCE

The CONSULTANT will comply with the railroad's requirements when conducting a survey on the railroad's R.O.W. Usually, this includes obtaining a permit, paying a fee, obtaining Railroad Protective Liability Insurance, notification of a flagman to be present near the rails during the survey operations, and any other requirements of the railroad. The CONSULTANT is responsible for all of the foregoing requirements.

DELIVERABLES

- I. Copies from the CONSULTANT'S field books, showing benchmarks, level circuits, & structure details, such as size and inverts etc.
- II. The Base Drawing at 1:1 scale. All the topographic information shall be plotted electronically. The data shall be in Illinois State Plane Coordinates – East Zone and be recorded in a <u>MICROSTATION (dgn)</u> format. All CAD work shall be according to LCDOT CAD Standards. ASCII files, gpk files, and/or InRoads files containing all point information as described below shall be included. A filename "ID" acronym explanation sheet shall be provided. Backup CDs shall be provided.
- III. Point Information:
 - (1) Point number
 - (2) Northing and Easting coordinate values
 - (3) "Z" elevations
 - (4) Point identification by code
 - (5) Notes

Subconsultant: HBK Engineering



May 20, 2022

Jeffrey Hall, PE Parsons Transportation Group 10 South Riverside, Suite 400 Chicago, Illinois 60606

Re: Scope and Fee for N. Lewis Avenue Improvements SUE Section 22-00082-11-WR / Lake County DOT N. Lewis Avenue, North Chicago/Waukegan, Lake County, IL HBK Engineering, LLC Proposal Revision 2

Dear Mr. Hall,

HBK Engineering, LLC, (HBK) is pleased to present this proposal to Parsons Transportation Group (Parsons). This Phase I Preliminary Engineering Study centers around the roadway improvements to N. Lewis Avenue from IL-137 to Belvidere Road, in North Chicago and Waukegan, in Lake County, IL. This project will require the locating of existing utilities throughout the project limits (Quality Level B-D), surveying, utility base mapping (CAD), utility coordination and preliminary design review which HBK will provide.

HBK's scope and fees for the project for N. Lewis Avenue - Utility Locating (Quality Level B & C Locating & Quality Level D Utility Atlases collection), Utility Survey, Utility Base Mapping (CAD), Utility Conflict Analysis and Utility Coordination Pricing Total: <u>\$68,310.00</u>.

HBK appreciates the opportunity to assist Parsons on this project.

Please contact me if you have any questions and/or need additional information.

Sincerely,

tart 11hh

Senior Project Manager

Attachments (5):

- Parsons_SUEQLB-D&UtilLoc&Survey_SOW_HBK_225073_05202022 R1 (PDF)
- HBK_BLR 05514 SVS_05202022 (PDF)
- BDE 436_Parsons_HBK_225073_NLewisAve_SUEQLB-D&Survey_05192022 (PDF)
- Parsons_NLewisAve-LocationExh1_225073_03062022 (PDF)
- Parsons_NLewisAve-LocationExh2_225073_03062022 (PDF)
- cc: Bethany Turk, PE HBK Engineering, LLC. Anthony D'Angelo, EIT – HBK Engineering, LLC. Project File

(Parsons_LCDOT_N LewisAve_HBK_225073-CoverLtr_05202022 R2.doc), rjk

Lake County Division of Transportation/Parsons Transportation Group N. Lewis Avenue, IL-137 to Belvidere Road Phase I Engineering Study Section 22-00082-11-WR

At the request of **Parson Transportation Group** (**PARSONS** / **Client**), **HBK Engineering**, **LLC** (**HBK** / **Consultant**) has prepared a scope of services for Utility Locating, Subsurface Utility Engineering (SUE) Quality Level B-D, Surveying, Utility Research, Utility Base Mapping (CAD), Initial Utility Conflict Analysis and Utility Coordination for the N. Lewis Avenue Phase I Engineering Study project in North Chicago and Waukegan, Lake County, Illinois. An hour and fee estimate for these improvement projects are also attached.

Project Limits

The project limits for purposes of utility identification and utility locating will extend to the existing right-of-way lines and extend to the limit of turn lane tapers at signal/stop-controlled intersections (or as otherwise depicted in Lake County Division of Transportation's/PARSON'S Scope of Services document and/or as recommended per below and 150' for all other intersections. The total utility locating length is estimated as follows:

- Lewis Avenue 16,100' 150' south of IL137 to 1000' north of Belvidere Road
- Cross streets
- IL137 500' west and 400' east
- 24th Street 200' west and 200' east
- Martin Luther King Junior Drive 300' west and 300' east
- Argonne Drive 300' west and 300' east
- 16th Street 200' west and 200' east
- Audrey Nixon Boulevard (14th Street) 300' west and 300' east
- 10th Street 200' west and 200' east
- Dugdale Road 200' southwest and 200' northeast and 200' west (8th Parkway)
- Belvidere Road 400' west and 200' east

Total = 21,200 feet (4.02 miles)

Utility locating and utility coordination (Subsurface Utility Engineering, or SUE) services for this project will be completed by HBK, as a subconsultant to PARSONS.

Utility Identification and Coordination

Based on the expectation that utility conflicts are likely to be a substantial challenge with respect to design and construction of the proposed improvements, a separate Level B Subsurface Utility Engineering (SUE) evaluation, including utility locating and utility coordination, will be completed for the project by HBK. The information gathered by HBK will be incorporated into the project base CAD files.

Initial Coordination/Data Collection

The proposed improvements will require coordination with public and private utilities that have facilities within the project corridor. HBK will coordinate with any utility companies/agencies found to have facilities located within the vicinity of the project limits through a JULIE Design Stage/Planning Information Request. Lake County DOT will provide area utility companies and contact information to PARSONS/HBK. A request will be made for these utilities to provide any available maps of existing facilities. It has been estimated that there will be up to ten public and private utilities to coordinate with for this project. HBK will provide copies of the atlases obtained to PARSONS for their files upon completion of all locating work performed.

Utility Easement Research

HBK will perform research at and through the Lake County Recorder's office for utility easements as granted as separate documents and on recorded plats. Research will cover parcels of un-subdivided and subdivided property on both sides of N. Lewis Avenue and side streets within project limits previously noted through the City of North Chicago, the City of Waukegan and unincorporated Lake County, Illinois. Additional document requests will be made to both IDOT District 1 and LCDOT for records.

Utility Locating

Descriptions of SUE quality levels are derived from the FHWA website on subsurface utility engineering. The website describes American Society of Civil Engineers (ASCE) Standard *C-I 38-02, Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.* There are four recognized quality levels of underground utility information ranging from Quality Level QL-D (the lowest level) to Quality Level QL-A (the highest level).

HBK will perform SUE Quality Level B locating of any utility facilities located within the project limits. Quality Level D information will be obtained from the City of Waukegan, City of North Chicago, Lake County, PARSONS, utility company atlases, JULIE requests, and other reliable sources. Qualified HBK staff will perform Level B locates of underground utilities within the project limits and mark them with paint and/or flags or identify, as is applicable.

HBK will perform SUE Level D and B locating of electric, telecommunication, gas, underground traffic control facilities at signalized intersections, interconnections between intersections, street lighting facilities, and water facilities within the limits of the N. Lewis Avenue improvement project limits (as identified in Location Exhibits 1 and 2 provided.

SUE Level D and B locating DOES NOT include sanitary or storm sewer facilities.

Utility Survey

After Level B locating is completed, HBK survey crews will survey the paint and/or flag locations to bring the located utility locations and information into a base utility CAD (DGN) file.

HBK will perform the field survey work as a subconsultant to PARSONS. All work proposed is within existing or proposed roadway right-of-way and may require private property/parcel access. PARSONS will provide written authorization from the Lake County Division of Transportation for access. HBK will survey the located utilities and the rims of existing water structures.

On this basis, HBK will perform the following survey tasks in accordance with applicable Lake County DOT Design Survey Procedures dated 2/22/2021:

GPS Field Location:

Utilizing state plane coordinates, HBK will survey all marked utilities, conflicts and potholed utilities utilizing GPS equipment. It is assumed that the coordinates or field information will be on Illinois State Plane East, NAD83 (2011).

Vertical Control:

It is assumed that either PARSONS, Jorgensen and/or the Lake County Division of Transportation has benchmarks available in the vicinity of the project or that HBK will be allowed to establish vertical control (NAVD88) utilizing GPS and the nearest NGS vertical monuments. PARSONS and/or Jorgensen will provide the benchmark(s) and control data for HBK's use in its data collection.

Survey will include existing visible utility structures, including telecommunication, gas, electric, watermain, and other utilities noted previously found within the project limits. HBK will survey all utility locate marks provided by HBK (as indicated in previous 'Utility Locating' work scope).

Utility Data Base Mapping

HBK will compile all the above information into one base map MicroStation drawing suitable for plotting at 1'=20' and 1'=50' scale that is representative of existing utility locations for use in all Phase II engineering work in developing the detailed plan, profile and cross sections for the preferred alternative. Survey base map drawing will be generated in MicroStation V8i.

HBK will coordinate with the roadway designer so that utilities can be depicted accurately in the survey data and utility base maps. This shall include time allotted for utility base map QA/QC.

Preliminary Utility Design Review

As part of this scope, HBK will complete one initial conflict analysis between the existing utility location information and the proposed Phase I final approved roadway alignment plan set to identify potential utility conflicts on the on the N. Lewis Avenue roadway improvements. HBK will also coordinate with the roadway design team to develop an understanding of the presence of utilities, their type, and possible issues with protecting and/or relocating those utilities.

Utility Coordination

HBK will coordinate with the utility companies/agencies having facilities within the project limits during Phase I Engineering. HBK will draft and send preliminary Phase I geometric plans and electronic files will be sent to utility companies to review the proposed improvements and identify impacts/conflicts to their facilities.

Utility Coordination Meetings

HBK will plan, attend (virtually), and lead up to one (1) joint utility coordination meeting and all impacted utilities will be invited so that their relocations, if any, can be mutually coordinated.

Assumptions/Exclusions

- HBK will not review utility relocation plans and utility permit plan submittals.
- Quality Level A locates (potholing) is NOT included in this proposal to PARSONS. HBK can provide an hour and fee estimate to perform one (1) Quality Level A locate (potholing or otherwise exposing buried utilities) for existing utilities in the vicinity of the improvements (to be recommended by HBK and concurred by PARSONS), if requested.
- Permitting fees are NOT included in this proposal and, if assessed, shall be considered a pass-through cost to Lake County.

End of Document

(Parsons_SUEQLB-D&UtilLoc&Survey_SOW_HBK_225073_05202022 R2.doc), rjk

EXHIBIT E



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00082-11-WR
Consultant (Firm) Name	Prepared By	Date
HBK Engineering, LLC.	Kolar, Robert	

PAYROLL ESCALATION TABLE

CONTRACT TERM START DATE RAISE DATE	8/1/2022	MONTHS	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	130.19% 2.00%
END DATE	7/31/2024			

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	8/1/2022	1/1/2023	5	20.83%
1	1/2/2023	1/1/2024	12	51.00%
2	1/2/2024	8/1/2024	7	30.35%

The total escalation = 2.18%

Local Public Agency County

Lake County Division of Transt Lake

Section Number

22-00082-11-WR

MAXIMUM PAYROLL RATE78.00ESCALATION FACTOR2.18%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

	IDOT	
CLASSIFICATION	PAYROLL RATES	CALCULATED RATE
	ON FILE	
Program Manager	\$73.65	\$75.25
Senior Project Manager	\$56.54	\$57.77
Senior Engineer	\$49.82	\$50.91
Project Manager	\$45.73	\$46.73
Engineer	\$40.22	\$41.10
Locator 3	\$26.34	\$26.91
Locator 2	\$22.54	\$23.03
Locator 1	\$21.78	\$22.25
Licensed Professional Surveyor	\$52.49	\$53.63
Analyst 1	\$27.46	\$28.06
Analyst 2	\$41.27	\$42.17
Field Lead	\$37.40	\$38.21
Field Technician	\$24.85	\$25.39
Designer 1	\$29.29	\$29.93
Designer 2	\$30.37	\$31.03
Designer 3	\$39.91	\$40.78
Permit Coordinator	\$28.74	\$29.37
Associate 1	\$31.62	\$32.31
Associate 2	\$37.11	\$37.92
24 AM	Page 2 of 4	

BLR 05514 (Rev. 04/30/21) Payroll Rates

Printed 5/20/2022 10:24

Local Public Agency

Lake County Division of Transportation

County

Section Number

0

22-00082-11-WR

Lake

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

COMPLEXITY FACTOR

OVERHEAD RATE 130.19%

TASK	TASK STAFF HOURS		OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
SUE Level B-D Utility Locating	602	19,635	25,563	4,741	6,480	0	56,419	82.59%
Utility Conflict Analysis/Coordination	102	4,518	5,882	0	1,491	0	11,891	17.41%
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Subconsultant DL					0		-	
TOTALS	704	24,153	31,445	4,741	7,971	-	68,310	100.00%

55,598

Local Public Agency

County

Lake

Section Number

22-00082-11-WR

Lake County Division of Transportation

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL	AVG	TOTAL PRO	J. RATES		SUE	Level B-D l Locating	Jtility		tility Confl sis/Coordi										
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Program Manager	75.25	8.0	1.14%	0.86	4	0.66%	0.50	4	3.92%	2.95									
Senior Project Manager	57.77	32.0	4.55%	2.63	12	1.99%	1.15	20	19.61%	11.33									
Senior Engineer	50.91	18.0	2.56%	1.30	10	1.66%	0.85	8	7.84%	3.99									
Project Manager	46.73	18.0	2.56%	1.19	18	2.99%	1.40												
Engineer	41.10	0.0																	
Locator 3	26.91	220.0	31.25%	8.41	220	36.54%	9.84												
Locator 2	23.03	0.0																	
Locator 1	22.25	0.0																	
Licensed Professional Surv	53.63	6.0	0.85%	0.46	6	1.00%	0.53												
Analyst 1	28.06	0.0																	
Analyst 2	42.17	0.0																	
Field Lead	38.21	10.0	1.42%	0.54	10	1.66%	0.63												
Field Technician	25.39	0.0																	
Designer 1	29.93	0.0																	
Designer 2	31.03	0.0																	
Designer 3	40.78	0.0																	
Permit Coordinator	29.37	10.0	1.42%	0.42	10	1.66%	0.49												
Associate 1	32.31	260.0	36.93%	11.93	260	43.19%	13.95												
Associate 2	37.92	122.0	17.33%	6.57	52	8.64%	3.28	70	68.63%	26.02									
		0.0																	
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		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		704.0	100%	\$34.31	602.0	100.00%	\$32.62	102.0	100%	\$44.29	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



COMPANY NAME: HBK Engineering, LLC.

PTB NUMBER: SUE QLB-D & Util Locate & Survey; N. Lewis Avenue

TODAY'S DATE: 5/19/2022

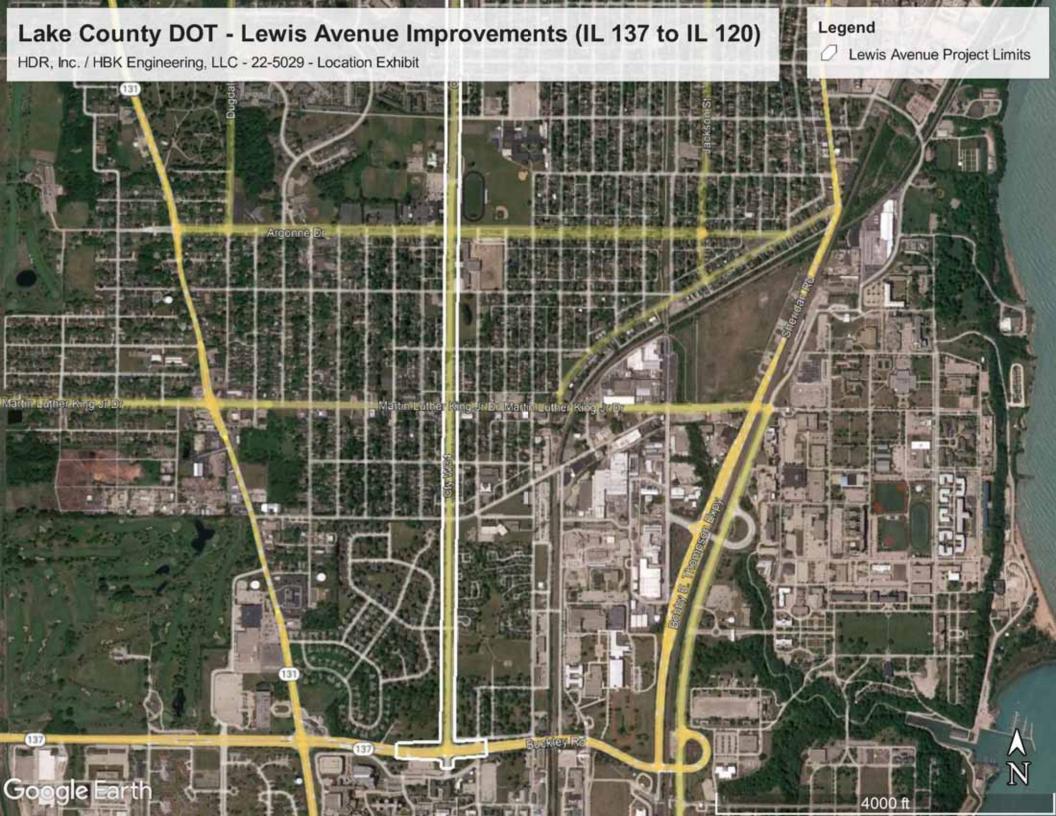
ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00	\$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			\$0.00	\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost			\$0.00	\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	х	60	\$0.585	\$35.10
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	Х	61	\$65.00	\$3,965.00
Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.00
Tolls	Actual cost			\$0.00	\$0.00
Parking	Actual cost			\$0.00	\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00	\$0.00
Shift Differential	Actual cost (Based on firm's policy)			\$0.00	\$0.00
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Project Specific Insurance	Actual cost			\$0.00	\$0.00
Monuments (Permanent)	Actual cost			\$0.00	\$0.00
Photo Processing	Actual cost			\$0.00	\$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost			\$0.00	\$0.00
CADD	Actual cost (Max \$15/hour)			\$0.00	\$0.00
Web Site	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Recording Fees	Actual cost			\$0.00	\$0.00
Transcriptions (specific to project)	Actual cost			\$0.00	\$0.00
Courthouse Fees	Actual cost			\$0.00	\$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Testing of Soil Samples*	Actual cost			\$0.00	\$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)			\$0.00	\$0.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Locating supplies (paint - per case/12 cans)	Actual cost	Х	12	\$54.99	\$659.88
Locating supplies (flags - per box/1000 flags)	Actual cost	х	1	\$80.99	\$80.99
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
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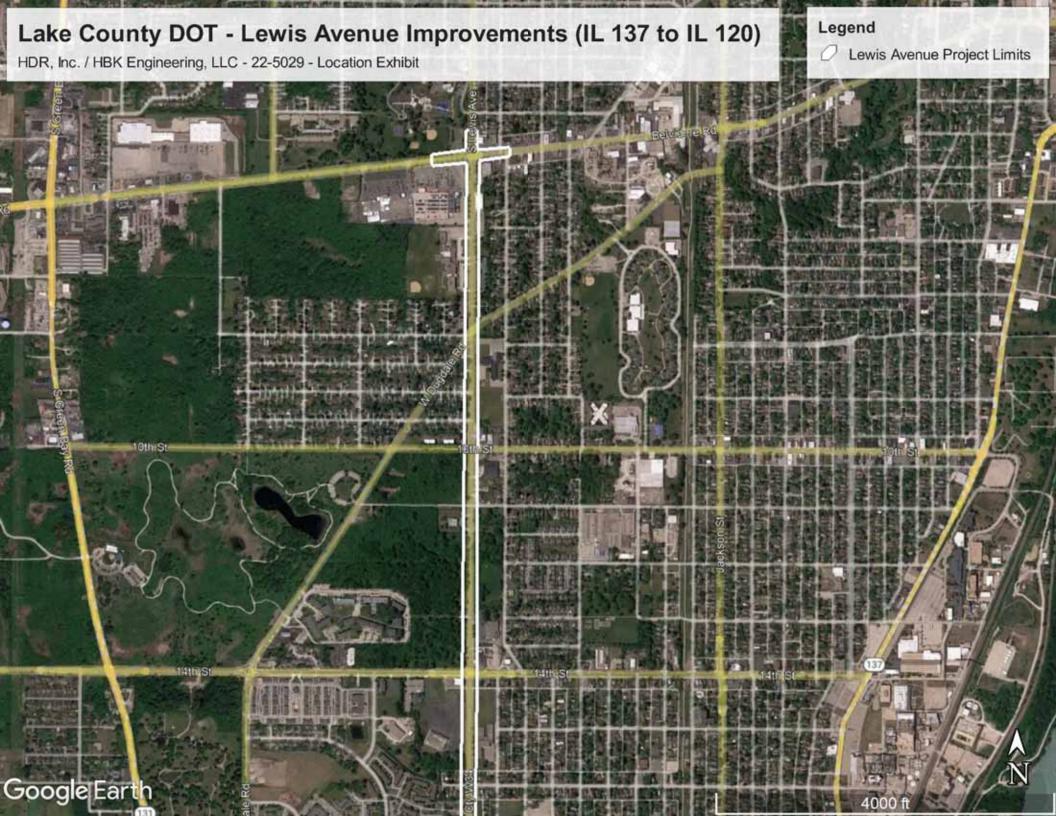
*If other allowable costs are needed and not listed, please add in the above spaces provided.

LEGEND

W.O. = Work Order

J.S. = Job Specific







DESIGN SURVEY PROCEDURES



DESIGN SURVEY PROCEDURES (Revised 2/22/21)

HORIZONTAL ALIGNMENT

Unless otherwise specified in the services contract, the CONSULTANT is to provide the horizontal alignment. The CONSULTANT will conduct all surveying, stationing, and preparation of required plans using English units of measure and the U.S. Survey Foot. The CONSULTANT'S SURVEYOR will try to re-establish the original horizontal alignment as shown on the recorded R.O.W. plats. The CONSULTANT shall contact LCDOT's Land Surveyor to obtain R.O.W. plats and field notes before establishing the horizontal alignment and stationing. The CONSULTANT shall notify LCDOT's Surveyor immediately if the alignment cannot be reproduced or if in the CONSULTANT'S opinion the existing alignment information is in error.

The CONSULTANT'S SURVEYOR, prior to construction, shall stake the PCs, PIs, PTs, and POTs so that the alignment location can be verified before construction staking is initiated. The CONSULTANT'S SURVEYOR will provide four reference ties to all U.S. Public Land Survey Monuments that are located within the construction limits. The reference points should be located outside of the anticipated construction limits if practical, so that they can be used after construction to replace the monuments. The CONSULTANT shall record Monument Records for all Section and Quarter Section corners set or found within the construction limits.

The CONSULTANT will mark the baseline for relocated alignments when off pavement at the PCs, PTs, and POTs with iron rods. The rods shall be set one foot below the surface in farmed land. The CONSULTANT will advise the County of any pavement alignment variations. In cases where the proposed centerline of construction or survey baseline is different from the existing centerline of R.O.W., both shall be shown and the relationship between them shall be indicated on an Alignment & Tie sheet.

<u>ALIGNMENT & TIE SHEET</u>

An Alignment & Tie Sheet shall be provided as part of the final plans. The plans are to be prepared using English units of measure and the U.S. Survey Foot. The station, offset, and coordinates of the alignment points (PCs, PTs, PIs, and POTs) and survey control (traverse) points shall be shown. Coordinates for all projects shall be on the Illinois State Plane Coordinate System, - East zone, NAD83 (Adjustment). The grid (combination) factor for the project shall be shown. A list of traverse points with station, offset, and coordinates shall be provided.

VERTICAL ALIGNMENT

The North American Vertical Datum of 1988 (NAVD 88) shall be used for vertical control. Lake County Mapping Benchmarks are available on-line (<u>http://gis.lakeco.org/maps/</u>). NAVD88 benchmarks are available on-line from the National Geodetic Survey. LCDOT's Land Surveyor may also be contacted for benchmarks that may be in the area. The primary benchmarks and site benchmarks shall be listed and described on the Alignment & Tie Sheet. The location of the site benchmarks shall also be shown on the plan sheets with a symbol. Site benchmarks are to be located at less than 1000-foot intervals with a minimum of two (2) on each project.

All benchmarks shall be located on stable objects. LCDOT prefers these objects to be outside the construction limits. Some acceptable benchmark examples are, spikes in poles, bolts on fire hydrant rings, and concrete foundations.

<u>TOPOGRAPHY</u>

The CONSULTANT shall cut cross-sections on station at 50-foot intervals (i.e. XX+00.00 and XX+50.00) and at all points needing clarification. For areas of superelevation or requiring greater detail, cross-sections shall be cut on station at 25-foot intervals. The cross section interval should be defined in the engineering services contract.

Full cross-section profiles will be taken at all cross streets, alleys, cross road culverts, and entrances (commercial, private, and field). Half cross-sections will not be accepted because they skew the computer terrain model.

The CONSULTANT will locate and identify all trees (6 inches in diameter or greater) within the area either side of the centerline, defined by the proposed ROW or construction limits (whichever is greater) plus an additional 10 feet. The trees shall be identified by species and size. The trees shall be located by station/offset and have a ground elevation.

Streams, tributaries, or major drainage ditches located within a lateral distance of 250 feet from centerline (upstream and downstream) shall be surveyed. Alignment, profiles, and cross-sections shall be taken. The stream width shall be shown as the distance measured between the tops of the stream banks. Profile elevations along the bottom of the watercourse shall be taken at a minimum of 50-foot intervals.

The survey shall extend a minimum of 200 feet beyond the roadway construction limits. Crosssections shall be taken a minimum of 10 feet beyond the proposed R.O.W. or construction limits (whichever is greater). Cross-sections will extend 30 feet beyond the proposed R.O.W. at entrances and 150 feet at minor side roads.

All survey data shall be collected in Illinois State Plane Coordinates – East Zone. The collected survey data for the existing topography shall have a minimum of 3^{rd} Order Accuracy horizontally with readings to the nearest 0.1 feet for vertical on gravel or ground and readings to the nearest 0.01 feet for vertical on all other surfaces.

For ADA ramps: The Consultant shall not use GPS devices to collect vertical data or elevations for hard surfaces e.g. curb and gutter, sidewalk, bike paths etc.

RAILROAD INSURANCE

The CONSULTANT will comply with the railroad's requirements when conducting a survey on the railroad's R.O.W. Usually, this includes obtaining a permit, paying a fee, obtaining Railroad Protective Liability Insurance, notification of a flagman to be present near the rails during the survey operations, and any other requirements of the railroad. The CONSULTANT is responsible for all of the foregoing requirements.

DELIVERABLES

- I. Copies from the CONSULTANT'S field books, showing benchmarks, level circuits, & structure details, such as size and inverts etc.
- II. The Base Drawing at 1:1 scale. All the topographic information shall be plotted electronically. The data shall be in Illinois State Plane Coordinates – East Zone and be recorded in a <u>MICROSTATION (dgn)</u> format. All CAD work shall be according to LCDOT CAD Standards. ASCII files, gpk files, and/or InRoads files containing all point information as described below shall be included. A filename "ID" acronym explanation sheet shall be provided. Backup CDs shall be provided.
- III. Point Information:
 - (1) Point number
 - (2) Northing and Easting coordinate values
 - (3) "Z" elevations
 - (4) Point identification by code
 - (5) Notes

Subconsultant: Huff & Huff



Via Email: Jeffrey.Hall@parsons.com



A Subsidiary of GZA

GEOTECHNICAL ENVIRONMENTAL ECOLOGICAL WATER CONSTRUCTION MANAGEMENT

915 Harger Road Suite 330 Oak Brook, IL 60523 T: 630.684.9100 F: 630.928.0709 www.huffnhuff.com www.gza.com July 20, 2022

Mr. Jeffrey Hall, P.E. PARSONS 10 South Riverside, Suite 400 Chicago, Illinois 60606

Re: Lake County Division of Transportation Lewis Avenue Phase I Preliminary Engineering Study Illinois Route 137 to Belvidere Road (Illinois Route 120) Section 22-00082-11-WR North Chicago and Waukegan, Lake County, Illinois Proposal No. 81.P013021.23 (Revised)

Dear Mr. Hall:

Huff & Huff, Inc., a subsidiary of GZA GeoEnvironmental, Inc. (H&H/GZA), is pleased to submit this proposal to PARSONS (Client) to provide environmental services for the Lake County Division of Transportation (LCDOT) proposed Lewis Avenue Improvements Project located within Waukegan and North Chicago, Lake County, Illinois.

The H&H/GZA proposed scope of work includes tasks for completing a wetland and waterway delineation, tree surveys and the completion of a Preliminary Environmental Site Assessment (PESA). This proposal presents our Project Understanding, Scope of Services, Level of Effort, Cost, and Schedule.

1. PROJECT UNDERSTANDING

Prepare Phase I, Preliminary Engineering Study, in accordance with the Illinois Department of Transportation of Transportation's (IDOT) Bureau of Local Roads & Streets Policies & Procedures for improvements along Lewis Avenue from Illinois Route 137 to Belvidere Road within the Cities of North Chicago and Waukegan. Phase I Study includes 9 Lewis Avenue intersections (at Illinois Route 137, 24th Street, Martin Luther King Junior Drive, Argonne Drive, 16th Street, Audrey Nixon Boulevard (14th Street), 10th Street, Dugdale Road, Belvidere Road). The project objectives are to reconstruct the existing pavement that is nearing the end of its useful life, increase roadway safety, enhance non-motorized travel, and effectively satisfy projected travel demands. The Phase I work will build upon the Feasibility Study that was completed in June 2021 and shall include an investigation of intersection traffic controls including roundabout analysis, appropriate number of travel lanes and roadway cross section. The work will produce a Project Development Report.

H&H/GZA understands the project limits to include the existing roadway right-of-way (ROW) of Lewis Avenue IL 137 and IL 120.

In preparing this proposal, H&H/GZA has made the following assumptions.

• As this project will be processed through IDOT Local Roads, biological and cultural clearances will be made available through the IDOT Environmental Survey Request process.

• H&H/GZA will complete field delineations of all wetlands and Waters of the United States (WOUS) within the project limits, plus an additional 100 feet per Lake County regulatory requirements.



- Access to all areas within the project limits to conduct field investigations will be provided by Client.
- All fees associated with obtaining wetland banking credits are not included in this scope of services and are the responsibility of the County. It is anticipated that wetland mitigation will be provided through LCDOT's credits in the Buffalo Creek Wetland Bank.
- Wetland permitting is not included in this scope of services and is typically conducted in Phase II.

2. SCOPE OF SERVICES

Task 1: Wetland and Waterway Delineation

H&H/GZA understands that regulated wetlands are potentially located within or adjacent to the project limits. H&H/GZA proposes to conduct a wetland and surface water delineation in accordance with:

- The February 25, 2022, edition of the USACE Chicago District Nationwide Permit (NWP) Program;
- The USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0), (Supplemental Wetland Manual); and
- The October 13, 2020, edition of the Lake County Watershed Development Ordinance (WDO).

A. Off-site Record/Document Review

The following records/documents will be reviewed prior to conducting the field investigation. Soils information will be reviewed to determine the soil types encountered during the delineation procedures. The sources to be reviewed and used include:

- Current and historic aerial photographs;
- U.S. Geological Survey (USGS), Topographic Map;
- U.S. Fish and Wildlife Service (USFWS), National Wetlands Inventory (NWI) Maps;
- Lake County Wetland Inventory Maps;
- Lake County Advanced Identification of Wetlands (ADID) Maps;
- Natural Resources Conservation Service (NRCS), Soil Survey of Lake County;
- Hydric Soils of the United States;
- Federal Emergency Management Agency (FEMA), Flood Insurance Rate Maps (FIRM); and
- USGS, Hydrologic Atlas.

B. On-Site Investigation (Field Inventory)

GZA proposes to conduct on-site investigations of all potential wetlands and waterways within the project limits as well as confirm the absence of wetlands if none are present. Proposed services include the identification and delineation of wetlands. Wetland delineation field investigation activities include on-site testing for the presence of hydric soils, hydrophytic vegetation, and sufficient hydrology. A floristic quality assessment (FQA) will be conducted for each identified wetland. Functions of wetlands based on field observations will also be evaluated during the on-site investigation. GZA will flag wetland boundaries in accordance with the WDO. GZA understands that the wetland and waterway boundaries within the project limits will be surveyed by Jorgensen & Associates, Inc. Land Surveyors. GZA will not provide global positioning system (GPS) data for wetland boundaries. The limits of the survey work and field investigations are as follows:

1. Lewis Avenue 16,100' - 150' south of IL137 to 1000' north of Belvidere Road

2. Cross streets

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- A. IL137 500' west and 400' east
- B. 24^{th} Street 200' west and 200' east
- C. Martin Luther King Junior Drive 300' west and 300' east
- D. Argonne Drive 300' west and 300' east
- E. 16th Street 200' west and 200' east
- F. Audrey Nixon Boulevard (14th Street) 300' west and 300' east
- G. 10^{th} Street 200' west and 200' east
- H. Dugdale Road 200' southwest and 200' northeast and 200' west (8th Parkway)
- I. Belvidere Road 400' west and 200' east

Task 2: Wetland Report

Upon completion of Task 1, a Wetland Delineation Report will be prepared summarizing the findings of the off-site record/document review and the on-site investigation. This report will be submitted to the Client as a PDF only. Wetland boundaries will be surveyed by the Client's sub-consultant Jorgensen & Associates, Inc. Land Surveyors. GZA will not provide shapefiles of the wetland and waterway boundaries. Specific items to be included in the report are as follows:

- Map showing the location, limits, and wetland boundaries within the project limits;
- Aerial photography depicting the appropriate limits of the delineated wetlands and waterways;
- USACE data sheets with FQAs, as required;
- Color photos of the wetlands and the data points; and
- Written description of wetland functional classification.

The NRCS no longer conducts farmed wetland determinations for areas of agricultural conversion. As agricultural land is not present within the project limits, conducting a Farmed Wetland Determination (FWD) is not included in the scope.

Any impacts to wetlands or waterways will require permits. GZA understands that wetland permitting will take place during Phase II.

Task 3: Preliminary Jurisdictional Determination/Boundary Verification

This task includes preparing the Preliminary Jurisdictional Determination/Boundary Verification (PJD/BV) submittal and formally requesting a PJD/BV through the Lake County Stormwater Management Commission (LCSMC) for all identified wetlands and waterways/surface waters. Time under this task includes one field meeting with the LCSMC for completion of the PJD/BV as well as time to flag all delineated wetlands and waterways/surface waters for the BV. Time under this task also includes revising the wetland report, if boundaries are modified during the field PJD/BV meeting based on input received from the LCSMC.

As the number of wetlands and open waters is not known at this time, fees associated with this PJD/BV are not included in this scope and are the responsibility of the County.

Task 4: Wetland Impact Evaluation

This task includes completing IDOT's Wetland Impact Evaluation (WIE) form, which is required for a complete ESR submittal. H&H/GZA will complete the WIE form using wetland impacts as calculated by the Client.



Task 5: Tree Survey

H&H/GZA will complete a tree survey. The limits of the tree survey will extend to the proposed right-of-way (ROW) from the preferred alternative B from the Feasibility Study, as well as for trees present with drip lines within the proposed ROW. H&H/GZA will identify the trees to species level and determine health, structure, and origin. H&H/GZA will note whether any trees are of exceptional size and condition. H&H/GZA will also determine which trees are worth avoidance, if any. The tree survey will follow IDOT Departmental Policies (D&E – 18) for all trees located within the survey limits and will follow the Lake County Forest Preserve District (LCFPD) *Licenses and Easement Ordinance* (Ordinance) tree survey requirements for all trees located on LCFPD property.

IDOT Departmental Policies (D&E – 18) specifies all trees with a diameter at breast height (DBH) of six inches or greater as well as trees with a DBH of less than six inches when such have been intentionally planted for landscaping, environmental mitigation, or habitat preservation/enhancement purposes be identified.

The LCFPD Ordinance specifies all trees with a DBH of three (3) inches or greater as well as trees with a DBH of less than three inches when such have been intentionally planted for landscaping, environmental mitigation, or habitat preservation/enhancement purposes be identified. Shrubs greater than three (3) inches DBH will also be assessed on LCFPD land. The Ordinance states that stands of low quality shrubs can be surveyed and documented by estimating the number of individuals in the colony. The tree survey will be supervised by a Certified Arborist.

This proposal assumes that all trees within or immediately adjacent to LCFPD properties will be tagged with aluminum tree tags by H&H/GZA and once tagged, the trees will be surveyed by Jorgensen & Associates, Inc. Land Surveyors. This survey also assumes that all trees surveyed outside of LCFPD property, using IDOT methodologies, will be surveyed by Jorgensen & Associates, Inc. Land Surveyors.

This proposal includes an assessment of northern long-eared bat (NLEB; *Myotis septentrionalis*) habitat within the proposed ROW. The NLEB assessment entails only the assessment of tree resources as potential habitat for NLEB, and expressly does not constitute a survey for presence/absence of NLEB within the project or adjacent areas.

Task 6: Tree Survey Report

After all trees are evaluated within the project limits, a tabulation of trees will be compiled which summarizes trees and potential impacts. The tree information will include tree species, size, health, structure, origin (volunteer or landscaped tree), and any identified specimen and exceptional trees in a memorandum and be provided to the Client in electronic PDF format only. This task does not include coordination with the LCFPD for tree mitigation.

Task 7: PESA

H&H/GZA will conduct a Preliminary Environmental Site Assessment (PESA) for the local road portions of the Project Corridor. A Preliminary Site Investigation (PSI) and CCDD coordination will be conducted in a future Phase II contract and is not part of this scope.

This PESA process will follow general protocols contained within:

- A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation (IDOT) Highway Projects (Erdmann et al., 2012);
- ASTM International (ASTM) standard 1527-13;
- IDOT Bureau of Design and Environment (BDE) Procedure Memorandum Number 10-07, Special Waste Procedures. This memo was incorporated into Chapter 27-3 of the IDOT BDE Manual in June 2012;
- IDOT Bureau of Local Roads and Streets (BLRS) Manual, Chapter 20-12, Special Waste, July 2013;

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- Public Act 96-1416; and
- Clean Construction or Demolition Debris (CCDD) Fill Operations and Uncontaminated Soil Fill Operations: Amendments to 35 Illinois Administrative Code 1100, effective August 27, 2012.

A. Historical Research

The Project Corridor historical land use/ownership record will be developed from standard historical sources. Historic aerial photographs will be reviewed to identify land use over time and potential areas of environmental concern, such as areas of surface disturbance and outside storage.

B. Site Evaluation

Current environmental features and conditions of sites adjacent to the Project Corridor will be evaluated. A site walkover of potential areas designated for excavation and/or acquisition will be conducted for first-hand evaluation of current environmental conditions within the Project Corridor. All the features and conditions listed above will be investigated and, as appropriate, documented in photographs. The land-use and housekeeping practices of adjacent properties will also be evaluated in accordance with ASTM protocols.

C. Records Review

A records review will be conducted to determine potential environmental concerns within the Project Corridor. This will include a search of standard state and federal environmental record databases in accordance with the specifications of ASTM standards. This search is based on the limits of the Project Corridor. Specifically, GZA will search each database to identify any potential sources requiring further investigation. As appropriate, Freedom of Information Act (FOIA) requests will be filed with the Illinois Environmental Protection Agency (IEPA) to obtain additional data pertaining to identified sites.

D. Report Preparation

A PESA Report summarizing the results of the evaluation will be prepared. The following information will be included in this report:

- The project location and description;
- Historical uses of Project Corridor;
- The area geology and hydrology;
- The environmental status of sites adjacent to the Project Corridor regarding chemical use and storage, underground and aboveground storage tanks, solid waste, special waste, hazardous waste, and PCBs;
- An analysis of the site inspection; and
- A summary of the findings regarding environmental concerns. The Potentially Impacted Properties (PIPs) will be assessed, per Subpart F, Section 1100, 35 IAC, related to CCDD management and in general conformation with IDOT memoranda.

Task 8: Quality Assurance/Quality Control (QA/QC)

Time under this task includes QA/QC time for the report and submittals materials as described above.

Task 9: Project Administration/Project Management

Time under this task includes project administration and management activities that include cost and schedule tracking, coordination with Client on authorized activities, report production, and other in-house management activities. This task includes preparing a Health and Safety Plan as appropriate for the project and tasks therein.



3. LEVEL OF EFFORT, COST, AND SCHEDULE

Estimated hours and costs to complete the proposed scope of services is attached. The wetland delineation will be completed as soon as possible during the growing season, which is approximately between May 15th and October 1st, with an anticipated completion of the Wetland Delineation Report within four weeks of field work. PESA work would commence within ten business days of authorization to proceed, or as requested by Client. The target completion date would be eight weeks from the date of the authorization to proceed. Completion of the PJD/BV and permitting services are dependent on Client need and schedules. If an expedited schedule is necessary, H&H/GZA will coordinate with Client to establish a schedule that is appropriate for the project needs. The cost estimate for this scope of work is presented in the attached Cost Estimate of Consultant Services (CECS). Costs will be invoiced as a cost-plus fixed fee.



4. PROPOSAL ACCEPTANCE

Conditions of Engagement

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H/GZA's report will be prepared on behalf of and for the exclusive use of Client. Client acknowledges and agrees that the report and the findings in the report shall not, in whole or in part, be disseminated or conveyed to any other party, or used or relied upon by any other party, in whole or in part, except for the specific purpose and to the specific parties alluded to above, without the written consent of H&H/GZA. H&H/GZA would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

H&H/GZA is submitting this proposal with the belief that we will be able to fulfill the scope requirements during this COVID-19 Pandemic crisis. If performance is rendered impossible because of the impacts of COVID-19, H&H/GZA will notify Client of that Force Majeure event.

Acceptance

This agreement may be accepted by signing in the appropriate space below and returning one complete copy to H&H/GZA. This proposal is valid for a period of 30 days from the date of issue.

We appreciate the opportunity to submit this proposal. Please feel free to contact the undersigned at (630) 684-4411 with any questions.

Very truly yours,

Huff & Huff, Inc./GZA, Inc.

Anah

Jim Novak, P.W.S. Associate Principal Attachments: Terms and Conditions

This Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services are hereby accepted and executed by a duly authorized signatory, who by execution hereof, warrants that he/she has full authority to act for, in the name, and on behalf of _______.

 By: ______
 Title: ______

 Printed/Typed Name: ______
 Date: ______

The Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by an e-mail delivery of a document in ".pdf" format, each such signature shall create a valid and binding obligation of the party executing the document, or on whose behalf each document is executed, with the same force and effect as if each such facsimile or ".pdf" signature were an original thereof.



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES Including Site Investigation, Remediation, Geotechnical, Construction, And Testing

© 2022 by Huff & Huff, Inc., a Subsidiary of GZA GeoEnvironmental, Inc.

These Terms and Conditions, together with Huff & Huff, Inc.'s (H&H's) Proposal, make up the Agreement between H&H and you, Client, named in the attached proposal.

BEFORE SIGNING THE PROPOSAL, BE SURE YOU READ AND UNDERSTAND THE PARAGRAPHS ENTITLED "INDEMNIFICATION" AND "LIMITATION OF REMEDIES" WHICH DEAL WITH THE ALLOCATION OF RISK BETWEEN YOU AND H&H.

1. Services. H&H will perform the services set forth in its Proposal and any amendments or change orders authorized by you. Any request or direction from you that would require extra work or additional time for performance or would result in an increase in H&H's costs will be the subject of a negotiated amendment or change order.

2. Standard of Care; Warranties.

a. H&H will perform the services with the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services at the same time under similar conditions in the same or similar locality.

b. H&H warrants that its construction services will be of good quality, free of faults and defects and in conformance with the Proposal.

c. EXCEPT AS SET FORTH IN SUBSECTIONS 2a AND 2b, ABOVE, NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE OR INTENDED BY H&H'S PROPOSAL OR BY ANY OF H&H'S ORAL OR WRITTEN REPORTS.

d. H&H assigns to you any manufacturers' warranties of equipment or materials purchased from others, to the extent they are assignable, and your sole recourse will be against the manufacturer. Full risk of loss of materials and equipment will pass to you upon delivery to the Site, and you will be responsible for insuring and otherwise protecting them against theft and damage.

3. Payment.

a. Except as otherwise stated in the Proposal, you will compensate H&H for the services at the rates set forth in the applicable Proposal, amendment or change order; reimburse its expenses, which will include a communication fee calculated as a percentage of labor invoiced; and pay any sales or similar taxes thereon.

b. Any retainer specified in H&H's Proposal shall be due prior to the start of services and will be applied to the final invoice for services.

c. H&H will submit invoices periodically, and payment will be due within 20 days from invoice date. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. H&H may terminate its services upon 10 days' written notice anytime your payment is overdue on this or any other project and you will pay for all services through termination, plus termination costs. You will reimburse H&H's costs of collecting overdue invoices, including reasonable attorneys' fees.

4. Your Responsibilities.

a. Except as otherwise agreed, you will secure the approvals, permits, licenses and consents necessary for performance of the services. If you are the owner or operator of the Site, you will provide H&H with all documents, plans, information concerning underground structures (including but not limited to utilities, conduits, pipes, and tanks), information related to hazardous materials or other environmental or geotechnical conditions at the Site and other information that may be pertinent to the services or, if you are not the owner or operator of the Site, you agree to make reasonable efforts to obtain these same documents and provide them to H&H. Unless otherwise indicated in writing, H&H will be entitled to rely on documents and information you provide.



b. If you use the services of a construction manager at the Site, you agree to use best and reasonable efforts to include in your agreement(s) with the construction contractor provisions obligating the latter:

(i) to indemnify and hold harmless, to the fullest extent permitted by law, you and H&H, its officers, employees and principals, for or on account of any claims, liabilities, costs and expenses, including attorneys' fees, arising out of or relating to the design or implementation of construction means, methods, procedures, techniques, and sequences of construction, including safety precautions or programs, of the contractor, or any of its subcontractors or any engineer engaged by it;

(ii) to name you and H&H as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor, or any of its subcontractors; and

(iii) to require that all of its subcontractors agree and be bound to the obligations set forth in (i) and (ii) above.

c. In the event that you are unable to secure such provisions in the agreement(s) with the construction contractor, you shall promptly notify H&H and H&H shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections.

5. **Right of Entry; Site Restoration.** You grant H&H and its subcontractor(s) permission to enter the Site to perform the services. If you do not own the Site, you represent and warrant that the owner has granted permission for H&H to enter the Site and perform the services; you will provide reasonable verification on request; and you will indemnify H&H for any claims by the Site owner related to alleged trespass by H&H or its subcontractors. H&H will exercise reasonable care to limit damage to landscaping, paving, systems and structures at the Site that may occur and you agree to compensate H&H for any restoration it is asked to perform, unless otherwise indicated in the Proposal.

6. Underground Facilities. H&H's only responsibility under this Section will be to provide proper notification to the applicable state utility "Call-Before-You-Dig" program. You further agree to assume responsibility for and to defend, indemnify and hold harmless H&H with respect to personal injury and property damages due to H&H's interference with subterranean structures including but not limited to utilities, conduits, pipes, and tanks:

(i) that are not correctly shown on any plans and information you or governmental authorities provide to H&H; or

(ii) that are not correctly marked by the appropriate utility.

7. Reliance. The services, information, and other data furnished by you shall be at your expense, and H&H may rely upon all information and data that you furnish, including the accuracy and completeness thereof. You acknowledge that the quality of the services provided by H&H is directly related to the accuracy and completeness of the information and data that you furnish to H&H. H&H's REPORTS ARE PREPARED FOR AND MADE AVAILABLE FOR YOUR SOLE USE. YOU ACKNOWLEDGE AND AGREE THAT USE OF OR RELIANCE UPON THE REPORT OR THE FINDINGS IN THE REPORT BY ANY OTHER PARTY, OR FOR ANY OTHER PROJECT OR PURPOSE, SHALL BE AT YOUR OR SUCH OTHER PARTY'S SOLE RISK AND WITHOUT ANY LIABILITY TO H&H.

8. Lab Tests and Samples. H&H is entitled to rely on the results of laboratory tests using generally accepted methodologies. H&H may dispose of samples in accordance with applicable laws 30 days after submitting test results to you unless you request in writing for them to be returned to you or to be held longer, in which case you will compensate H&H for storage and/or shipping beyond 30 days.

9. H&H Professionals. H&H employees or consultants may act as licensed, certified or registered professionals (including but not limited to Professional Engineers, Licensed Site or Environmental Professionals, or Certified Industrial Hygienists collectively referred to in this section as "H&H Professionals") whose duties may include the rendering of independent professional opinions. You acknowledge that a federal, state or local agency or other third party may audit the services of H&H or other contractor/consultant(s), which audit may require additional services, even though H&H and such H&H Professionals have each performed such services in accordance with the standard of care set forth herein. You agree to compensate H&H for all services performed in response to such an audit, or to meet additional requirements resulting from such an audit, at the rates set forth in the applicable Proposal, amendment or change order.

10. Hazardous Materials; H&H "Not a Generator". Before any hazardous or contaminated materials are removed from the Site, you will sign manifests naming you as the generator of the waste (or, if you are not the generator, you will arrange for the generator to sign). You will select the treatment or disposal facility to which any waste is taken. H&H will not be the generator or owner of, nor will it possess, take title to,

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or assume legal liability for any hazardous or contaminated materials at or removed from the Site. H&H will not have responsibility for or control of the Site or of operations or activities at the Site other than its own. H&H will not undertake, arrange for or control the handling, treatment, storage, removal, shipment, transportation or disposal of any hazardous or contaminated materials at or removed from the Site, other than any laboratory samples it collects or tests. You agree to defend, indemnify and hold H&H harmless for any costs or liability incurred by H&H in defense of or in payment for any legal actions in which it is alleged that H&H is the owner, generator, treater, storer or disposer of hazardous waste.

11. Limits on H&H's Responsibility. H&H will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. H&H will not supervise, direct or assume control over or the authority to stop any contractor's work, nor shall H&H's professional activities nor the presence of H&H or its employees and subcontractors be construed to imply that H&H has authority over or responsibility for the means, methods, techniques, sequences or procedures of construction, for work site health or safety precautions or programs, or for any failure of contractors to comply with contracts, plans, specifications or laws. Any opinions by H&H of probable costs of labor, materials, equipment or services to be furnished by others are strictly estimates and are not a guarantee that actual costs will be consistent with the estimates.

12. Changed Conditions.

a. You recognize the uncertainties related to environmental and geotechnical services, which often require a phased or exploratory approach, with the need for additional services becoming apparent during the initial services. You also recognize that actual conditions encountered may vary significantly from those anticipated, that laws and regulations are subject to change, and that the requirements of regulatory authorities are often unpredictable.

b. If changed or unanticipated conditions or delays make additional services necessary or result in additional costs or time for performance, H&H will notify you and the parties will negotiate appropriate changes to the scope of services, compensation and schedule.

c. If no agreement can be reached, H&H will be entitled to terminate its services and to be equitably compensated for the services already performed. H&H will not be responsible for delays or failures to perform due to weather, labor disputes, intervention by or inability to get approvals from public authorities, acts or omissions on your part, or any other causes beyond H&H's reasonable control, and you will compensate H&H for any resulting increase in its costs.

13. Documents and Information. All documents, data, calculations and work papers prepared or furnished by H&H are instruments of service and will remain H&H's property. Designs, reports, data and other work product delivered to you are for your use only, for the limited purposes disclosed to H&H. Any delayed use, use at another site, use on another project, or use by a third party will be at the user's sole risk, and without any liability to H&H. Any technology, methodology or technical information learned or developed by H&H will remain its property. Provided H&H is not in default under this Agreement, H&H's designs will not be used to complete this project by others, except by written agreement relating to use, liability and compensation.

14. Electronic Media. In accepting and utilizing any drawings, reports and data on any form of electronic media generated by H&H, you covenant and agree that all such electronic files are instruments of service of H&H, who shall be deemed the author and shall retain all common law, statutory law and other rights, including copyrights. In the event of a conflict between the signed documents prepared by H&H and electronic files, the signed documents shall govern. You agree not to reuse these electronic files, in whole or in part, for any purpose or project other than the project that is the subject of this Agreement. Any transfer of these electronic files to others or reuse or modifications to such files by you without the prior written consent of H&H will be at the user's sole risk and without any liability to H&H.

15. Confidentiality; Subpoenas. Information about this Agreement and H&H's services and information you provide to H&H regarding your business and the Site, other than information available to the public and information acquired from third parties, will be maintained in confidence and will not be disclosed to others without your consent, except as H&H reasonably believes is necessary: (a) to perform its services; (b) to comply with professional standards to protect public health, safety and the environment; and (c) to comply with laws and court orders. H&H will make reasonable efforts to give you prior notice of any disclosure under (b) or (c) above. Information available to the public and information acquired from third parties will not be considered confidential. You will reimburse H&H for responding to any subpoena or governmental inquiry or audit related to the services, at the rates set forth in the applicable Proposal, amendment or change order.



16. Insurance. During performance of the services, H&H will maintain workers compensation, commercial general liability, automobile liability, and professional liability/contractor's pollution liability insurance. H&H will furnish you certificates of such insurance on request.

17. Indemnification. You agree to hold harmless, indemnify, and defend H&H and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "H&H") against all claims, suits, fines and penalties, including mandated cleanup costs and attorneys' fees and other costs of settlement and defense, which claims, suits, fines, penalties or costs arise out of or are related to this Agreement or the services, except to the extent they are caused by H&H's negligence or willful misconduct.

18. Limitation of Remedies.

a. To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the aggregate liability of H&H and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "H&H") for all claims arising out of this Agreement or the services is limited to \$50,000 or, if greater, 10% of the compensation received by H&H under this Agreement.

b. You may elect to increase the limit of liability by paying an additional fee, such fee to be negotiated prior to the execution of this Agreement.

c. Any claim will be deemed waived unless received by H&H within one year of substantial completion of the services.

d. H&H will not be liable for lost profits, loss of use of property, delays, or other special, indirect, incidental, consequential, punitive, exemplary, or multiple damages.

e. H&H will not be liable to you or the Site owner for injuries or deaths suffered by H&H's or its subcontractors' employees.

f. You will look solely to H&H for your remedy for any claim arising out of or relating to this Agreement, including any claim arising out of or relating to alleged negligence or errors or omissions of any H&H principal, officer, employee or agent.

19. Disputes.

a. All disputes between you and H&H shall be subject to non-binding mediation.

b. Either party may demand mediation by serving a written notice stating the essential nature of the dispute, the amount of time or money claimed, and requiring that the matter be mediated within forty-five (45) days of service of notice.

c. The mediation shall be administered by the American Arbitration Association in accordance with its most recent Construction Mediation Rules, or by such other person or organization as the parties may agree upon.

d. No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitation period would expire if suit were not filed prior to such forty-five (45) days after service of notice.

20. Miscellaneous.

a. Illinois law shall govern this Agreement.

b. The above terms and conditions regarding Limitation of Remedies and Indemnification shall survive the completion of the services under this Agreement and the termination of the contract for any cause.

c. Any amendment to these Terms and Conditions must be in writing and signed by both parties.

d. Having received these Terms and Conditions, your oral authorization to commence services, your actions, or your use of the Report or Work Product constitutes your acceptance of them.

e. This Agreement supersedes any contract terms, purchase orders or other documents issued by you.

f. Neither party may assign or transfer this Agreement or any rights or duties hereunder without the written consent of the other party.

g. Your failure or the failure of your successors or assigns to receive payment or reimbursement from any other party for any reason whatsoever shall not absolve you, your successors or assigns of any obligation to pay any sum to H&H under this agreement.

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h. These Terms and Conditions shall govern over any inconsistent terms in H&H's Proposal.

i. The provisions of this Agreement are severable; if any provision is unenforceable it shall be appropriately limited and given effect to the extent it is enforceable.

j. The covenants and agreements contained in this Agreement shall apply to, inure to the benefit of and be binding upon the parties hereto and upon their respective successors and assigns.

EXHIBIT E



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

OVERHEAD RATE

% OF RAISE

COMPLEXITY FACTOR

FIXED RAISE

182.42%

2.00%

0

Local Public Agency	County	Section Number
LCDOT	Lake	22-00082-11-WR
Consultant (Firm) Name	Prepared By	Date
Huff & Huff	J. Novak	6/7/2022

PAYROLL ESCALATION TABLE

MONTHS

CONTRACT TERM	24
START DATE	8/1/2022
RAISE DATE	3/1/2023

END DATE 7/31/2024

ESCALATION PER YEAR

				% o f
Year	First Date	Last Date	Months	Contract
0	8/1/2022	3/1/2023	7	29.17%
1	3/2/2023	3/1/2024	12	51.00%
2	3/2/2024	8/1/2024	5	21.68%

The total escalation = 1.84%

Lake

County

MAXIMUM PAYROLL RATE78.00ESCALATION FACTOR1.84%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

	IDOT	
CLASSIFICATION	PAYROLL RATES ON FILE	CALCULATED RATE
Associate Principal II	\$69.75	\$71.03
Associate Principal I	\$66.04	\$67.26
Senior Consultant	\$74.06	\$75.42
Senior Project Manager III	\$63.64	\$64.81
Senior Project Manager II	\$53.81	\$54.80
Senior Project Manager I	\$48.20	\$49.09
Senior Landscape Architect	\$57.23	\$58.28
Senior Planning PM	\$53.97	\$54.96
Senior Geologist PM	\$57.26	\$58.31
Senior Technical Specialist I	\$50.79	\$51.73
Senior Scientist PM II	\$53.71	\$54.70
Senior Technical Scientist	\$51.13	\$52.07
Scientist PM II	\$48.38	\$49.27
Scientist PM I	\$42.00	\$42.77
Assistant PM Scientist	\$35.63	\$36.29
Environmental Engineer PM I	\$44.35	\$45.17
Geotechnical Engineer PM I	\$43.14	\$43.93
Architect PM	\$48.56	\$49.45
Assistant PM Engineer I	\$42.02	\$42.79
Engineer I	\$31.55	\$32.13
Scientist E1	\$31.41	\$31.99
Technical Graphics Technician	\$25.15	\$25.61
Administrative Managers	\$46.64	\$47.50
Senior Administrative Assistant	\$32.81	\$33.41
Lead Word Processor	\$40.46	\$41.21

LCDOT

County

Section Number

22-00082-11-WR

Lake

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE 182.42%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1. Wetland & Waterway Delineation	32	1,169	2,132	147	386	0	3,834	8.00%
2. Wetland Report	45	1,597	2,913	0	527	0	5,037	10.52%
3. Preliminary JD /Boundary Verification	8	309	563	73	102	0	1,047	2.19%
4. Wetland Impact Evaluation	7	272	497	0	90	0	859	1.79%
5. Tree Survey	130	4,875	8,893	394	1,609	0	15,771	32.93%
6. Tree Survey Report	65	2,348	4,283	0	775	0	7,406	15.46%
7. PESA	80	2,795	5,099	858	922	0	9,674	20.20%
8.QA/QC	12	776	1,416	0	256	0	2,448	5.11%
9. Project Admin	10	577	1,053	0	190	0	1,820	3.80%
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
Subconsultant DL					0		-	
TOTALS	389	14,718	26,849	1,472	4,857	-	47,896	100.00%

41,567

County

Lake

Section Number

22-00082-11-WR

LCDOT

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 2

PAYROLL	AVG	TOTAL PRO	I. RATES			land & Wat Delineation		2. W	/etland Re	port		ninary JD /I Verificatio		4. \	Vetland Im Evaluation	-	5	. Tree Surv	/ey
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Associate Principal II	71.03	12.0	3.08%	2.19															
Associate Principal I	67.26	0.0																	
Senior Consultant	75.42	0.0																	
Senior Project Manager III	64.81	0.0																	
Senior Project Manager II	54.80	0.0																	
Senior Project Manager I	49.09	1.0	0.26%	0.13															
Senior Landscape Architect	58.28	0.0																	
Senior Planning PM	54.96	0.0																	
Senior Geologist PM	58.31	12.0	3.08%	1.80															
Senior Technical Specialist I	51.73	2.0	0.51%	0.27															
Senior Scientist PM II	54.70	9.0	2.31%	1.27	1	3.13%	1.71	4	8.89%	4.86	1	12.50%	6.84	1	14.29%	7.81			
Senior Technical Scientist	52.07	16.0	4.11%	2.14													10	7.69%	4.01
Scientist PM II	49.27	0.0																	
Scientist PM I	42.77	8.0	2.06%	0.88															
Assistant PM Scientist	36.29	211.0	54.24%	19.68	30	93.75%	34.02	24	53.33%	19.35	7	87.50%	31.75	6	85.71%	31.10	120	92.31%	33.49
Environmental Engineer PM I	45.17	0.0																	
Geotechnical Engineer PM I	43.93	0.0																	
Architect PM	49.45	0.0																	
Assistant PM Engineer I	42.79	0.0																	
Engineer I	32.13	50.0	12.85%	4.13															
Scientist E1	31.99	40.0	10.28%	3.29				10	22.22%	7.11									
Technical Graphics Technician	25.61	17.0	4.37%	1.12	1	3.13%	0.80	6	13.33%	3.42									
Administrative Managers	47.50	0.0																	
Senior Administrative Assistant	33.41	11.0	2.83%	0.94				1	2.22%	0.74									
Lead Word Processor	41.21	0.0																	
		0.0																	
		0.0																	
TOTALS		389.0	100%	\$37.83	32.0	100.00%	\$36.53	45.0	100%	\$35.48	8.0	100%	\$38.59	7.0	100%	\$38.92	130.0	100%	\$37.50

County

Lake

Section Number

2

22-00082-11-WR

OF

SHEET

2

LCDOT

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

															-			-	<u>. </u>
PAYROLL	AVG		ee Survey F	-		7. PESA			8.QA/QC			Project Ad							
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Associate Principal II	71.03	1	1.54%	1.09	1	1.25%	0.89	6	50.00%	35.52	4	40.00%	28.41						<u> </u>
Associate Principal I	67.26																		
Senior Consultant	75.42																		
Senior Project Manager III	64.81																		
Senior Project Manager II	54.80																		
Senior Project Manager I	49.09				1	1.25%	0.61												
Senior Landscape Architect	58.28																		
Senior Planning PM	54.96																		
Senior Geologist PM	58.31				4	5.00%	2.92	6	50.00%	29.16	2	20.00%	11.66						
Senior Technical Specialist I	51.73				2	2.50%	1.29												ľ
Senior Scientist PM II	54.70										2	20.00%	10.94						ľ
Senior Technical Scientist	52.07	6	9.23%	4.81															ľ
Scientist PM II	49.27																		
Scientist PM I	42.77				8	10.00%	4.28												
Assistant PM Scientist	36.29	24	36.92%	13.40															
Environmental Engineer PM I	45.17																		
Geotechnical Engineer PM I	43.93																		
Architect PM	49.45																		
Assistant PM Engineer I	42.79																		
Engineer I	32.13				50	62.50%	20.08												
Scientist E1	31.99	30	46.15%	14.76															
Technical Graphics Technicia	25.61				10	12.50%	3.20												
Administrative Managers	47.50																		
Senior Administrative Assista	33.41	4	6.15%	2.06	4	5.00%	1.67				2	20.00%	6.68						
Lead Word Processor	41.21					-													
											Î								
TOTALS		65.0	100%	\$36.12	80.0	100%	\$34.94	12.0	100%	\$64.67	10.0	100%	\$57.70	0.0	0%	\$0.00	0.0	0%	\$0.00

HUFF & HUFF, INC. SUMMARY OF OUTSIDE DIRECT COSTS

Project: Parsons LCDOT Lewis Avenue

Tack 1 Watland and Wa	torway Dali	nontio	n					DIRECT
Task 1 Wetland and Wa Trips - Company	55 miles	X		х	\$	0.585	=	\$ 128.70
Tolls	ea	x	12			1.50	=	\$ 18.00
	<u>ou</u>	~	12	Λ		sk Total		\$ 146.70
Task 2 Wetland Report								
					Та	sk Total		\$ -
Task 3 Preliminary JD/E	3V							
Trips - Company	55 miles	Х	2	х	\$	0.585	=	\$ 64.35
Tolls	ea	х	6	х	\$	1.50	=	\$ 9.00
					Та	sk Total		\$ 73.35
Task 4 Wetland Impact	Evaluation							
					Та	sk Total		\$ -
Task 5 Tree Survey								
Trips - Company	55 miles	х	10	х	\$	0.585	=	\$ 321.75
Tolls			48	х		1.50	=	\$ 72.00
					Та	sk Total		\$ 393.75
Task 6 Tree Survey Rep	oort							
					Та	sk Total		\$ -
Task 7 PESA								
Trips - Company	55 miles	х	2	х	\$	0.585	=	\$ 64.35
Tolls			6	х	\$	1.50	=	\$ 9.00
Maps/Aerials			2	х	\$	95.00	=	\$ 190.00
Federal Express			1	х	\$	20.00	=	\$ 20.00
Records Search			1	х	\$	575.00	=	\$ 575.00
					Та	sk Total		\$ 858.35
Task 8 QA/QC								
					Та	sk Total		\$ -
Task 9 Project Admin								
					Та	sk Total		\$ -

GRAND TOTAL \$ 1,472.15

F:\Proposals\Proposal-FY2023\Parsons\[Parsons Lewis Avenue DC analytical reduced 06072022.xls]Outside Direct Costs

HUFF & HUFF, INC. SUMMARY OF SERVICES BY OTHERS

Project: Parsons LCDOT Lewis Avenue

Task 1 Wetland and Waterway Delineation	<i></i>	<u>c</u>	DUTSIDE
rask i Welland and Waterway Dennead	Task Total	\$	-
Task 2 Wetland Report			
	Task Total	\$	-
Task 3 Preliminary JD/BV		•	
	Task Total	\$	-
Task 4 Wetland Impact Evaluation	Task Total	\$	
	Task Total	Φ	-
Task 5 Tree Survey	Task Total	\$	
	TASK TOLAT	φ	-
Task 6 Tree Survey Report	Task Total	\$	
		Ψ	-
Task 7 PESA	Task Total	\$	<u> </u>
Task 8 QA/QC		•	
	Task Total	\$	-
Task 9 Project Admin			
	Task Total	\$	-
	GRAND TOTAL	\$	-

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Subconsultant: 2IM Group

Location Drainage Study Drainage Engineering Work Hour Summary



Project Route:		Lewis Avenue									
Project Limits:		from Illinois 137 to Belvidere Road									
County:		Lake County									
State Job Number:		N/A									
Local Agencies:		IDOT BLR, Lake County SMC, Lake County DOT, North Chicago, and Waukegan									
Number of Agencies:	5	_	Identified Drainage Proble	ems:	0						
Number of Outlets:	7	(per USGS Topo Map)	Drainage Districts:	-	1						
Number of FPE's	0	Total	0	Transverse	0 Longitudinal						
Number of Floodways	0	Total	0	Transverse	0 Longitudinal						
Major Drainage Features:	0 Bridges	0	Major Culvert Crossings	-	0 Pump Stations						
	0	_Reservoirs/Detention I	acilities								
	0	Subway	0	Channels							
Length: Mainline	3-miles		16,100								
	* Lewis Avenue 16,1	00' - 150' south of IL137 to	o 1000' north of Belvidere Roa	d							
Cross Sts:	* summary per secti	on 2. Survey of Scope of S	4,900								
Interchanges:		on 2. Survey of scope of S	0								
Total Length (All of Above)			21,000								

WORK HOURS



EXISTING DRAINAGE SYSTEM

General Location Drainage Map	8
Existing Drainage Plan	288
- assume twelve (12) sheets at 50 scale at 24 hrs/sheet	
Identified Drainage Problems	0
- no identified drainage problems	
Identified Base Floodplains	0
Major Drainage Features	0

ITEM

PROPOSED DRAINAGE SYSTEM

Design Criteria	20
Outlet Evaluation	28
- <i>4 hours per outlet ==> 7 x 4</i> Storm Water Detention Analysis	168
- 24 hours per outlet ==> 7 x 24 Right of Way Analysis	22
-2 hours per sheet==> 11 x 2 Drainage Alternatives	0
Local and Other Agency Coordination - 12 hours per agency ==> 5 x 16	80
Proposed Drainage Plan - assume twelve (12) sheets at 50 scale at 32 hrs/sheet	384
Floodplain Encroachment Evaluation	0
IDNR-OWR Permit	0
Water Quality/BMP	28
- 4 hours per outlet ==> 7 x 4 Study Assembly	20
Quality Control/Quality Assurance (3%)	32
Contract Administration and Billing (4%)	43
TOTAL WORK HOURS	1,121



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

OVERHEAD RATE

% OF RAISE

COMPLEXITY FACTOR

FIXED RAISE

95.62%

2.00%

EXHIBIT E

Local Public Agency	County	Section Number
Lake County Division of Transportation	LAKE: Lewis Ave IL 137 to Belvidere Rd	
Consultant (Firm) Name	Prepared By	Date
2IM Group, LLC	LSM	5/18/2022

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS
START DATE		
RAISE DATE	5/1/2023	

END DATE 7/31/2024

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	8/1/2022	5/1/2023	9	37.50%
1	5/2/2023	5/1/2024	12	51.00%
2	5/2/2024	8/1/2024	3	13.01%

The total escalation = 1.51%

Lake County Division of Trans LAKE: Lewis Ave. - IL 137 to Belvidere Rd Pha

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	1.51%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES	CALCULATED RATE
	ON FILE	
Principal	\$78.00	\$78.00
Senior Proffessional	\$68.00	\$69.02
Project Manager	\$55.00	\$55.83
Project Engineer I	\$48.00	\$48.72
Project Engineer II	\$44.00	\$44.66
Engineer I	\$38.00	\$38.57
Engineer II	\$33.00	\$33.50
Environmental I	\$38.00	\$38.57
Environmental II	\$30.00	\$30.45
Technician	\$32.00	\$32.48
Administration	\$30.00	\$30.45

County

Section Number

Lake County Division of Transportation

LAKE: Lewis Ave. - IL 137 to Belvidere Rd Phase

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE

95.62%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL	
6. Drainage Studies	1121	60,132	57,498	88	17,644		135,362	100.00%	
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Subconsultant DL					0		-		
TOTALS	1121	60,132	57,498	88	17,644	-	135,362	100.00%	

117,630

County

Section Number

Lake County Division of Transportation

LAKE: Lewis Ave. - IL 137 to Belvidere Rd Pl

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL	AVG	TOTAL PRO.	I. RATES		6. Di	rainage Stu	ıdies												
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal	78.00	57.0	5.08%	3.97	57	5.08%	3.97												
Senior Proffessional	69.02	200.0	17.84%	12.31	200	17.84%	12.31												
Project Manager	55.83	404.0	36.04%	20.12	404	36.04%	20.12												
Project Engineer I	48.72	0.0																	
Project Engineer II	44.66	260.0	23.19%	10.36	260	23.19%	10.36												
Engineer I	38.57	200.0	17.84%	6.88	200	17.84%	6.88												
Engineer II	33.50	0.0																	
Environmental I	38.57	0.0																	
Environmental II	30.45	0.0																	
Technician	32.48	0.0																	
Administration	30.45	0.0																	
		0.0																	
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TOTALS		1121.0	100%	\$53.64	1121.0	100.00%	\$53.64	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

COMPANY NAME: 2IM Group LLC

PTB NUMBER: Lake County Division of Trasportation (Lewis Avenue)

TODAY'S DATE: 5/18/2022

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00	\$0.0
Lodging	Actual cost (Up to state rate maximum)			\$0.00	\$0.0
(per GOVERNOR'S TRAVEL CONTROL BOARD) Lodging Taxes and Fees					
(per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost			\$0.00	\$0.0
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	х	150	\$0.585	\$87.7
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00	\$0.0
Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.0
Tolls	Actual cost			\$0.00	\$0.0
Parking	Actual cost			\$0.00	\$0.0
Overtime	Premium portion (Submit supporting documentation)			\$0.00	\$0.0
Shift Differential	Actual cost (Based on firm's policy)			\$0.00	\$0.0
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Project Specific Insurance	Actual cost			\$0.00	\$0.00
Monuments (Permanent)	Actual cost			\$0.00	\$0.00
Photo Processing	Actual cost			\$0.00	\$0.0
2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.0
Telephone Usage (Traffic System Monitoring Only)	Actual cost			\$0.00	\$0.0
CADD	Actual cost (Max \$15/hour)			\$0.00	\$0.0
Web Site	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.0
Recording Fees	Actual cost			\$0.00	\$0.0
Transcriptions (specific to project)	Actual cost			\$0.00	\$0.0
Courthouse Fees	Actual cost			\$0.00	\$0.0
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.0
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.0
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.0
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.0
Testing of Soil Samples*	Actual cost			\$0.00	\$0.0
Lab Services*	Actual cost (Provide breakdown of each cost)			\$0.00	\$0.0
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.0
Environmental Database Reports for ESR/PESA	Estimated Cost			\$450.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.0
				\$0.00	\$0.00
TOTAL DIRECT COS				11100	\$88

*If other allowable costs are needed and not listed, please add in the above spaces provided. LEGEND

W.O. = Work Order J.S. = Job Specific

Subconsultant: GSG Consultants



Section No. 22-00082-11-WR

Lewis Avenue from IL Route 137/Buckley Road to IL Route 120/Belvidere Road Waukegan and North Chicago, Illinois Lake County June 10, 2022

The scope of work consists of providing Phase I geotechnical engineering services for the improvements to Lewis Avenue, extending from the intersection with Belvidere Road in Waukegan to IL Route 137 in North Chicago, Illinois. The project objectives include reconstructing the existing pavement that has degraded, and constructing improvements that will emphasize safety, and enhance both non-motorized and motorized travel. Specific improvements will include:

- Roadway improvements on Lewis Avenue from 1,000 feet north of Belvidere Road to IL 137; roadway section is about 2.9 miles. The existing roadway is 5 lanes; the improved roadway will predominantly be 5 lanes (if Alternative A is selected) or 3 lanes (Alternative B).
- New retaining walls will likely be constructed in the area of 10 existing retaining walls along the project corridor. Several of these walls are anticipated to be landscaped block walls.
- Possible new, 10-foot bike lane along the full roadway section. New/improved sidewalks in some areas
- Assumed Traffic Signal Replacements/New Signs at the 9 intersections included along Lewis Avenue. These improvements will be included in a later Phase II geotechnical exploration.

The intersections to be included in the development are as follows:

- Illinois Route 137 signalized
- 24th Street four-way stop controlled
- Martin Luther King Junior Drive signalized
- Argonne Drive signalized
- 16th Street four-way stop controlled
- 14th Street signalized
- 10th Street signalized
- Dugdale Road and 8th Parkway signalized
- Belvidere Road signalized

The ten existing retaining walls, to likely be removed and replaced, are at the following locations:

1) 45' long wooden wall; 1' tall. West side between 24th Street and 23rd Street (1 – 10 feet)

80' long concrete block wall; 3' tall. West side between 24th Street and 23rd Street (2 – 10 feet)

- 147' long poured concrete wall; 2'-4' tall. West side between 23rd Street and Martin Luther King Junior Drive (2 – 10 feet)
- 4) Northeast corner of Martin Luther King Junior Drive
 - a) 128' along Lewis Avenue poured concrete wall; 4' tall. Northeast corner of Martin Luther King Junior Drive (2 10 feet)
- 98' long concrete block wall; 0'-4' tall. West side just north of Martin Luther King Junior Drive (2 – 10 feet)

- 6) 422' long poured concrete wall, 1'-5' tall. West side just south of Argonne Drive (4 15 feet)
- 52' long concrete block wall; 1'-2' tall. East side between 17th Street and 16th Street (1 10 feet)
- 8) 292' long wood and concrete landscaped wall; 0' 6' tall. Southwest corner of Belvidere Road (3 – 15 feet)
- 9) 300' along Atuie Street wooden wall, 1'-3' tall. Northeast corner of IL137 (2 -10 feet)

Geotechnical Soil Investigations and Reporting

The anticipated project scope will include the following improvements:

- 1) Retaining Walls 19 borings
- 2) Subgrade Borings 51 borings
- 3) Pavement Cores 14 locations

Soil borings for the Phase I design will be advanced in accordance with the IDOT Geotechnical Manual (2020). The scope for each of the improvement items on the project is described below.

Structures – Retaining Walls – 9 Locations (19 borings, 225 lineal feet)

It is assumed ten new retaining walls will be constructed near the existing retaining wall locations listed above. In those wall areas identified as potential landscape block walls, one (1) boring to a depth of 10-feet will be completed at those locations for preliminary soils information. For the remaining boring locations, borings will be completed at a preliminary spacing of approximately 150-feet, with a minimum of 2 borings per wall to depths of 15 feet, based on the anticipated wall heights. It is anticipated that additional soil borings will be completed during the Phase II design as necessary for each of the walls.

A total of nineteen (19) borings will be completed to depths of 10 to 15 feet, for a total of 225 feet of drilling.

Roadway Subgrade Borings (510 lf)

Roadway improvements will be completed along Lewis Avenue. Subgrade borings will be completed to depths of 10 feet to gather information about the existing pavement and subgrade conditions along Lewis Avenue. It is anticipated that approximately 2.9 miles – about 15,312 feet of pavement will be reconstructed. Borings will be completed per IDOT requirements at 300-foot spacing, on alternating sides of the road, including pavement cores of the existing pavement structure. It is assumed that less than 15 feet of cut and fill is anticipated along the roadway; if more than 15 feet of cut or fill is required, please contact GSG so that our soil boring estimates may be revised appropriately. A total of fifty-one (51) borings will be completed for a total of 510 linear feet. In addition, pavement cores will be completed at various locations along the corridor identified by the County for a total of fourteen (14) locations.

Below is the project approach for the investigation and reporting.



Geotechnical Scope Description Section No. 22-00082-11-WR Waukegan and North Chicago, Illinois Page 3 of 4

1.0 Subsurface Exploration

- A. Conduct a visual reconnaissance of the project area to evaluate access for drilling equipment and locate proposed soil boring locations.
- B. Coordinate necessary permits with CONSULTANT.
- C. Attend meeting with LCDOT to review proposed boring and pavement locations prior to initiating field investigation.
- D. Clear Underground Utilities Layout the soil borings based on the site reconnaissance. Contact JULIE 48-hour prior to starting the field activities and clearing underground utilities at the site.
- E. Arrange for traffic control for soil borings requiring traffic control during field activities for all boring locations.
- F. Mobilize truck-mounted and ATV drill rigs as appropriate to the project area and perform subsurface exploration activities. Soil samples will be collected using split-barrel samples utilizing the Standard Penetration Test (SPT) procedures.
- G. Subsurface exploration and sampling activities will be supervised by an experienced geotechnical engineer or geologist. All material recovered from each split barrel will be carefully examined and visually classified at the time of sampling by the field geotechnical engineer. The field geotechnical engineer will prepare a written record (field log) providing SPT results, soil classification, field observations, and other relevant data.
- H. Soil samples will be preserved in a 2 in. diameter, 8 ounce, screw-top, airtight clear glass jars. The soil samples will be placed in the jars and sealed as soon as taken, and the jars will be stored in cardboard boxes, marked and identified. The jar labels will show the section number, boring number, depth at which sample was taken, and number of SPT blows. The samples shall be protected against freezing and the jars against breakage and will be delivered to the soil laboratory on a daily basis for laboratory testing.
- I. We will backfill each borehole with soil cuttings or grout mix, based on the subsurface condition after completion of all field explorations and after all samples, observations and information have been collected. Patch top of each borehole with asphalt or concrete mixed in accordance with the existing surface.

2.0 Laboratory Testing Program

A laboratory testing program will be performed on selected soil samples. The type of the laboratory testing program is dependent upon the type of soil encountered but will generally include visual engineering classification, natural moisture content, unit weight, grain size analysis, unconfined compressive strength tests (soil), organic content tests, and Atterberg limits testing.

3.0 Geotechnical Analysis and Reporting

It is assumed that the nine retaining walls will be included in one Preliminary Structural Geotechnical Report. The Preliminary Structural Geotechnical Report (SGR) will be prepared upon completion of all field explorations, laboratory testing, and all engineering analyses, including initial foundation recommendations and construction recommendations. The report will include exhibits showing boring



Geotechnical Scope Description Section No. 22-00082-11-WR Waukegan and North Chicago, Illinois Page 4 of 4

locations, boring logs, soil test data, and results of all special studies and analyses (foundations, slope stability), preliminary engineering recommendations for the proposed project, construction considerations, and all other information specified by the IDOT Geotechnical Manual (2020). Final recommendations will be provided in the Phase 2 of the project design.

A Roadway Geotechnical Report (RGR) will be prepared for the proposed roadway construction, upon completion of all field explorations and laboratory testing. The report will include a review of the existing pavement conditions, all engineering analysis, including pavement design recommendations, subgrade improvement/ remediation, and construction recommendations, as necessary for the new design. The report will include exhibits showing boring locations, boring logs, pavement core photographs, soil test data, and results of all special studies and analyses (slope stability, settlement), engineering recommendations for the proposed project, construction considerations, and all other information specified by the IDOT Geotechnical Manual (2020). GSG will assist with recommendations on any soil remediation (geotechnical only, not environmental).

After submission of the draft RGR, GSG will attend a meeting with the consultant and LCDOT to review the recommendations. The final RGR report will be provided within 1 week of meeting with LCDOT to discuss the comments.



EXHIBIT E



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency Lake County Consultant (Firm) Name GSG Consultants		County Lake Prepared By DE			Section Number 22-00082-11-WR Date 6/10/2022
	PAYROLL	ESCALATIO	ON TABLE		
		MONTHS		-	ERHEAD RATE 126.14% EXITY FACTOR 0 % OF RAISE 2.00%
	ESCAL	ATION PER	YEAR		
Year	r First Date	Last Date	Months	% of Contract	
	0 8/1/2022	1/1/2023	5	20.83%	_
	1 1/2/2023	1/1/2024	12	51.00%	
	2 1/2/2024	8/1/2024	7	30.35%	

The total escalation = 2.18%

Local Public Agency County

Lake County

Count

MAXIMUM PAYROLL RATE78.00ESCALATION FACTOR2.18%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE					
Principal-In-Charge	\$78.00	\$78.00					
Senior Project Manager	\$70.00	\$66.86					
Project Manager	\$65.43	\$36.78					
Field Manager	\$36.00	\$59.77					
Senior Engineer II	\$58.50	\$49.28					
Senior Engineer I	\$48.23	\$46.53					
Project Engineer II	\$45.54	\$40.98					
Project Engineer I	\$40.11	\$37.30					
Staff Engineer II	\$36.50	\$30.60					
Staff Engineer I	\$29.95	\$45.13					
Sr. Environmental Scientist	\$44.17	\$39.06					
Environmental Scientist II	\$38.23	\$26.98					
Environmental Scientist I	\$26.40	\$51.39					
Senior Inspector	\$50.29	\$43.43					
Inspector II	\$42.50	\$34.36					
Inspector I	\$33.63	\$34.36					
CAD Designer	\$31.75	\$32.44					
Project Administrator	\$29.80	\$30.45					
Administrative	\$28.11	\$28.72					

Lake County

County

Section Number

22-00082-11-WR

Lake

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE

126.14%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection	24	1,564	1,973		516		4,053	2.31%
Subsurface Exploration	156	6,536	8,245	81,653	2,157		98,591	56.28%
Engineering Analysis	176	7,246	9,140		2,391		18,777	10.72%
SGR Report - Walls	180	8,142	10,270		2,687		21,099	12.04%
RGR Report	288	11,446	14,438		3,777		29,661	16.93%
Project Management - Meetings	20	1,162	1,466		384		3,012	1.72%
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Subconsultant DL					0		-	
TOTALS	844	36,096	45,532	81,653	11,912	-	175,193	100.00%

81,628

County

Lake

Section Number

22-00082-11-WR

Lake County

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 2

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PAYROLL	AVG	TOTAL PROJ	J. RATES		Da	ata Collectio	on	Subsu	rface Explo	oration	Engi	ineering An	alysis	SGF	R Report - \	Walls	RGR Report		
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal-In-Charge	78.00	36.0	4.27%	3.33	4	16.67%	13.00	4	2.56%	2.00	4	2.27%	1.77	12	6.67%	5.20	8	2.78%	2.17
Project Manager	66.86	24.0	2.84%	1.90	8	33.33%	22.29	16	10.26%	6.86									
Field Manager	36.78	0.0																	
Senior Engineer II	59.77	92.0	10.90%	6.52	12	50.00%	29.89	12	7.69%	4.60	12	6.82%	4.08	24	13.33%	7.97	24	8.33%	4.98
Senior Engineer I	49.28	0.0																	
Project Engineer II	46.53	168.0	19.91%	9.26							40	22.73%	10.58	40	22.22%	10.34	80	27.78%	12.93
Project Engineer I	40.98	80.0	9.48%	3.88							40	22.73%	9.31	40	22.22%	9.11			
Staff Engineer II	37.30	130.0	15.40%	5.74				50	32.05%	11.95	40	22.73%	8.48	40	22.22%	8.29			
Staff Engineer I	30.60	210.0	24.88%	7.61				50	32.05%	9.81	40	22.73%	6.96		۱ <u></u> ۱		120	41.67%	12.75
Sr. Environmental Scientist	45.13	0.0													'I				
Environmental Scientist II	39.06	0.0													۱ <u></u> ۱				
Environmental Scientist I	26.98	0.0													۱ <u></u> ۱				
Senior Inspector	51.39	0.0													۱ <u> </u>				
Inspector II	43.43	40.0	4.74%	2.06				24	15.38%	6.68					۱ <u></u> ۱		16	5.56%	2.41
Inspector I	34.36	0.0													۱ <u> </u>				
CAD Designer	32.44	64.0	7.58%	2.46										24	13.33%	4.33	40	13.89%	4.51
Project Administrator	30.45	0.0													'I				
Administrative	28.72	0.0													'I				
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TOTALS		844.0	100%	\$42.77	24.0	100.00%	\$65.17	156.0	100%	\$41.90	176.0	100%	\$41.17	180.0	100%	\$45.23	288.0	100%	\$39.74

County

Lake

Section Number

22-00082-11-WR

Lake County

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 2 OF 2

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PAYROLL	AVG	Project Management - Meetings																	
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal-In-Charge	78.00	4	20.00%	15.60		I′													
Project Manager	66.86		['	\Box		I′													
Field Manager	36.78			\square		I'													
Senior Engineer II	59.77	8	40.00%	23.91															
Senior Engineer I	49.28																		
Project Engineer II	46.53	8	40.00%	18.61															
Project Engineer I	40.98																		
Staff Engineer II	37.30																		
Staff Engineer I	30.60																		
Sr. Environmental Scientist	45.13		\Box																
Environmental Scientist II	39.06		\Box																
Environmental Scientist I	26.98																		
Senior Inspector	51.39																		
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TOTALS		20.0	100%	\$58.12	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



COMPANY NAME: GSG Consultants, Inc

PTB NUMBER: TODAY'S DATE: 6/10/2022

ІТЕМ	Allowable	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$24.00	\$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			\$80.00	\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost			\$0.00	\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.000	\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day		10	\$65.00	\$650.00
Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.00
Tolls	Actual cost			\$0.00	\$0.00
Parking	Actual cost			\$0.00	\$0.00
	Actual cost				
Photo Processing				\$0.00	\$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost			\$0.00	\$0.00
CADD	Actual cost (Max \$15/hour)			\$0.00	\$0.00
Web Site	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Recording Fees	Actual cost			\$0.00	\$0.00
Transcriptions (specific to project)	Actual cost			\$0.00	\$0.00
Courthouse Fees	Actual cost			\$0.00	\$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)		1	\$ 13,120.00	\$13,120.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Testing of Soil Samples*	Actual cost			\$0.00	\$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)		1	\$9,260.00	\$9,260.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Geotechnical Drilling Services	Actual cost		1	\$58,622.50	\$58,622.50
Platform- River Drilling	Actual cost (Requires 2-3 quotes with IDOT approval)		•	\$00,0 <u>2</u> 2.00	\$0.00
Railroad Flagging	Actual cost		0	\$0.00	\$0.00
Lab Services (Outside Cost)	Actual Cost		U	φ0.00	\$0.00
	Actual Costs			\$0.00	\$0.00
Environmental Drilling Services				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
TOTAL DIRECT COST					\$81,652.50

*If other allowable costs are needed and not listed, please add in the above spaces provided.

LEGEND

W.O. = Work Order

J.S. = Job Specific

SCHEDULE A-1 to BDE 436 Direct Cost Check Sheet IDOT Direct Cost Category: Lab Services GSG Consultants, inc. In-House Lab Services Schedule

		ee eenedale					
6/10/2022 Job/Prop No	2	Clien	t Contact				
Client	Parsons	Phone Phone					
Project Name	Lewis Avenue Corridor		Fax				
Location	Lake County	Ema	ail	_			
	112	UOM	UOM /Unit		Total		
Moisture Conter	nt - AASHTO T 265	EACH	\$12.00	280.00	\$3,360.00		
Atterberg Limits	- AASHTO T 89 and T 92	EACH	\$105.00	10.00	\$1,050.00		
Sieve analysis - I	IL Mod. AASHTO T 27/T 11	EACH	\$125.00	25.00	\$3,125.00		
Particle Size Ana AASHTO T 88	alysis: Sieve analysis - IL Mod AASHTO T 27/T 11 & Hydrometer analy	each	\$175.00	5.00	\$875.00		
Organic Matter (Content - AASHTO T 194	EACH	\$55.00	10.00	\$550.00		
pH Value - AASH	TO T 289	EACH	\$9.99	0.00			
Specific Gravity	- AASHTO T 100	EACH	\$30.00	0.00			
Unit Weight		EACH	\$30.00	10.00	\$300.00		
		SUBTOTAL ESTIN	MATE	0	\$9,260.00		

SCHEDULE A-2 to BDE 436 Direct Cost Check Sheet IDOT Direct Cost Category: Drilling GSG Consultants, Inc In-House Drilling Schedule

Project Name Location Lew Lak Estimated Days Of Union Rates Image: Comparison of Comparison Mobilization/Demobility Mobilization/Demobility Image: Comparison of Comparison Mobilization/Demobility Drill Rig Daily Rate (8) Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff	25 lization (ATV H.S.A. Rig)& Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	Client Contact Phone Fax Email UOM HOUR HOUR HOUR HOUR HOUR HOUR HOUR HOUR	Price /Unit \$500.00 \$350.00 \$1,450.00 \$12.00 \$40.00	Quantity 0.00 16.00 8.00	Total \$5,600.00
Client Part Project Name Location Lak Estimated Days Of Union Rates Mobilization/Demobil Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff f Prevailing Wage Diff f Pre	vis Avenue Corridor ve County n Site 25 lization (ATV H.S.A. Rig & Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Sunday hours)	Phone Fax Email UOM HOUR HOUR HOUR HOUR HOUR HOUR	Price /Unit \$500.00 \$350.00 \$1,450.00 \$12.00	0.00	
Project Name Location Lew Lak Estimated Days Of Mobilization/Demobili Mobilization/Demobili Drill Rig Daily Rate (8 Prevailing Wage Diff ff Prevailing Wage Diff ff Prevai	vis Avenue Corridor ve County n Site 25 lization (ATV H.S.A. Rig & Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Sunday hours)	Fex Email UOM HOUR HOUR Day HOUR HOUR HOUR HOUR	/Unit \$500.00 \$350.00 \$1,450.00 \$12.00	0.00	
Estimated Days Or Union Rates Mobilization/Demobil Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff f Prevailing Wage Diff f Standby boring Access Drill Rig Hourly Rate (8 Borehole Setup (Borin Hollow Stem Augering 0 - 30'	n Site	HOUR HOUR Day HOUR HOUR HOUR	/Unit \$500.00 \$350.00 \$1,450.00 \$12.00	0.00	
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Union Rates Mobilization/Demobil Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Drill Rig Daily Rate (8 Standby boring Acces Drill Rig Hourly Rate (Borehole Setup (Borint Hollow Stem Augering 0 - 30'	25 lization (ATV H.S.A. Rig)& Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR HOUR Day HOUR HOUR HOUR	\$500.00 \$350.00 \$1,450.00 \$12.00	0.00	
Mobilization/Demobil Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Drill Rig Daily Rate (8 Standby boring Access Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	lization (ATV H.S.A. Rig)& Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR Day HOUR HOUR HOUR	\$350.00 \$1,450.00 \$12.00	16.00	\$5,600.00
Mobilization/Demobil Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Prevailing Wage Diff ff Drill Rig Daily Rate (8 Standby boring Access Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	lization (ATV H.S.A. Rig)& Service Truck lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR Day HOUR HOUR HOUR	\$350.00 \$1,450.00 \$12.00	16.00	\$5,600.00
Mobilization/Demobil Drill Rig Daily Rate (8 Prevailing Wage Diff ff Prevailing Wage Diff ff Drill Rig Daily Rate (8 Standby boring Access Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	lization (Truck H.S.A. Rig & Service Truck) hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR Day HOUR HOUR HOUR	\$350.00 \$1,450.00 \$12.00	16.00	\$5,600.00
Drill Rig Daily Rate (8 Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Prevailing Wage Diff Drill Rig Daily Rate (8 Standby boring Acces Drill Rig Hourly Rate (8 Borehole Setup (Borine Hollow Stem Augering 0 - 30'	hours) from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	Day HOUR HOUR HOUR	\$1,450.00 \$12.00		\$5,600.00
Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Drill Rig Daily Rate (8 Standby boring Access Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	from Regular Salary Rate (2 man/crew) from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR HOUR HOUR	\$12.00	0.00	\$11,600.00
Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Drill Rig Daily Rate (8 Standby boring Acces Drill Rig Hourly Rate (Borehole Setup Delo Setup Cont Hollow Stem Augering 0 - 30'	from Regular Salary Rate (2 man/crew) - Overtime from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR HOUR		0.00	\$11,000.00
Prevailing Wage Diff f Prevailing Wage Diff f Prevailing Wage Diff f Drill Rig Daily Rate (S Standby boring Acte (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	from Regular Salary Rate (2 man/crew) - Night Shift from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)	HOUR		0.00	
Prevailing Wage Diff f Prevailing Wage Diff f Drill Rig Daily Rate (8 Standby boring Accee Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	from Regular Salary Rate (2 man/crew) - Night Shift Overtime from Regular Salary Rate (2 man/crew) - Sunday hours)		\$16.00	N/A	
Drill Rig Daily Rate (8 Standby boring Acces Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	hours)		\$48.00	N/A	
Standby boring Acces Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'		HOUR	\$81.00	N/A	
Drill Rig Hourly Rate (Borehole Setup (Borin Hollow Stem Augering 0 - 30'	ss and Hauling Water	Day	\$1,450.00	0.00	
Borehole Setup (Borin Hollow Stem Augering 0 - 30'		HOUR	\$250.00	0.00	
Hollow Stem Augering 0 - 30'		Hour	\$180.00	0.00	
0 - 30'		EACH	\$40.00	N/A	
	g, 3 1/4" or 4 1/4"	LF.	¢11 50	735.00	¢9.452.50
		LF. LF.	\$11.50 \$16.50	0.00	\$8,452.50
51' - 75'		LF.	\$10.50	0.00	
76' - 100'		LF.	\$19.50	0.00	
100' - 125'		HOUR	\$250.00	0.00	
Geoprobe Sampling		LF.	\$24.00	0.00	
Split Spoon Sampling	g (2" Diameter)			N/A	
0' - 30'		EACH	\$16.00	280.00	\$4,480.00
30' - 50'		EACH	\$17.00	0.00	
51' - 75'		EACH	\$32.00	0.00	
76' - 100'		EACH	\$85.00	0.00	
100' - 150'		HOUR	\$250.00	0.00	
Shelby Tubes 0 - 50'		EACH	\$50.00	0.00	
Mud Rotary Drilling S		EACH	\$150.00	N/A	
Mud Rotary (<4" Dian 0' - 30'	neter)	L.F.	\$13.50	0.00	
30' - 50'	98644	L.F.	\$18.50	0.00	
51' - 75'	00011	L.F.	\$21.00	0.00	
76' - 100'		L.F.	\$24.00	0.00	
100' - 150'		HOUR	\$250.00	0.00	
Split Spoon Sampling	(Mud Rotary (2" Diameter)			N/A	
0' - 30'		EACH	\$18.50	0.00	
30' - 50'		EACH	\$21.50	0.00	
51' - 75'		EACH	\$33.00	0.00	
76' - 100'		EACH	\$89.00	0.00	
100' - 150'		HOUR	\$250.00	0.00	
	W Casing (0 - 100') (if required)	HOUR	\$350.00	0.00	
Bedrock Coring Setur	VW Casing (100' - 150')	HOUR	\$350.00 \$150.00	N/A 0.00	
Rock Coring (NX size)		L.F.	\$150.00	0.00	
Backfill Geoprobe soi		L.F.	\$1.50		
	al Boring (Bentonite or Grout)	L.F.	\$3.00		
Backfill soil cutting		LF	\$4.00	735.00	\$2,940.00
Backfill Boring (Bento	onite or Grout)	L.F.	\$6.00	0.00	
Rock Rotary Drilling (
0 - 50'		L.F.	\$50.00	N/A	
51' - 75'		L.F.	\$60.00	N/A	
76' - 100'		L.F.	\$75.00	N/A	
100' - 150'		HOUR	\$300.00	N/A	
	Backfilled with Cuttings	L.F.	\$6.00	0	\$10.0F2.02
	Patch or DOT Road & Bridge Patch Mix	Each	\$175.00	70.00	\$12,250.00
Geoprobe (Wage, Mo Pavement Coring - 4-8	b, other Items as above) - Direct Push DT 1-1/8"	L.F.	\$22.00 \$200.00	N/A 14.00	\$2,800.00
		Each DAY	\$200.00	14.00 N/A	φ∠,000.00
	ion Including Material w/Cement & Bentonite	L.F.	\$250.00	N/A	
Electric Concrete Cori Inclinometer Installat	rilling (6 or 8-inch Diameter)	Each	\$150.00	70.00	\$10,500.00
Inclinometer Installat			\$175.00	N/A	,
Inclinometer Installat		EACH	ΨΤΙΟ.ΟΟΙ	. iv/A I	
Inclinometer Installat Concrete / Asphalt Di	nch (w/Drill Rig)	EACH EACH	\$175.00	0.00	
Inclinometer Installat Concrete / Asphalt Di Concrete Coring - 4 Ir Concrete Coring - 6 Ir	nch (w/Drill Rig)				
Inclinometer Installat Concrete / Asphalt Di Concrete Coring - 4 Ir Concrete Coring - 6 Ir Concrete Structure Co Concrete Structure Co	nch (w/Drill Rig) nch (w/Drill Rig) ore Repair - Bridge Deck 4" to 5" Dia. X 8" to 10" Thick ore Repair - Culvert 4" to 5" Dia. X 3 Feet Thick	EACH	\$200.00	0.00	
Inclinometer Installat Concrete / Asphalt Dr Concrete Coring - 4 Ir Concrete Coring - 6 Ir Concrete Structure Cr Concrete Structure Cr Desander & Pump Re	nch (w/Drill Rig) nch (w/Drill Rig) ore Repair - Bridge Deck 4" to 5" Dia. X 8" to 10" Thick ore Repair - Culvert 4" to 5" Dia. X 3 Feet Thick ental for Mud Rotary Drilling	EACH EACH EACH DAY	\$200.00 \$250.00 \$350.00 \$150.00	0.00 N/A N/A N/A	
Inclinometer Installat Concrete / Asphalt Dr Concrete Coring - 4 In Concrete Coring - 6 In Concrete Structure Cr Concrete Structure Concrete Structure Concrete Structure Concenter & Pump Re Generator - Night Woo	nch (w/Drill Rig) nch (w/Drill Rig) ore Repair - Bridge Deck 4° to 5° Dia. X 8° to 10° Thick ore Repair - Culvert 4° to 5° Dia. X 3 Feet Thick nrtal for Mud Rotary Drilling rk	EACH EACH EACH DAY DAY	\$200.00 \$250.00 \$350.00 \$150.00 \$150.00	0.00 N/A N/A N/A 0	
Inclinometer Installat Concrete / Asphalt Dr Concrete Coring - 4 In Concrete Coring - 6 In Concrete Structure Cr Concrete Structure Concrete Structure Concrete Structure Concenter & Pump Re Generator - Night Woo	nch (w/Drill Rig) nch (w/Drill Rig) ore Repair - Bridge Deck 4" to 5" Dia. X 8" to 10" Thick ore Repair - Culvert 4" to 5" Dia. X 3 Feet Thick ental for Mud Rotary Drilling rk ental for Mud Rotary Drilling	EACH EACH EACH DAY	\$200.00 \$250.00 \$350.00 \$150.00	0.00 N/A N/A N/A	

-Union 150 Rates will be an hourly rate charged for all prevailing wage hours worked in addition to the regular

regular footage/hourly unit rates. This is above the prevailing wages hourly rate and benefits.

Traffic Control Estimate

Description	Quantity		Unit Price		Total Estimate
NB Lane Closure	0	\$	2,600.00	\$	-
Impact Truck (GeoProbe)	0	\$	1,640.00	\$	-
Impact Truck	8	\$	1,640.00	\$	13,120.00
Shoulder/Lane Closure	0	\$	900.00	\$	-
Arrow Sign	0	\$	45.00	\$	-
	Total Estimate				

Subconsultant: Singh & Associates



SCOPE OF SERVICES

PROJECT NAME: Lewis Avenue Corridor
CLIENT: Lake county
LOCATION: Lewis Avenue between Illinois Route 137 to Belvidere Road
Job No.:
SINGH P.N.: 22140

Singh & Associates, Inc. (SINGH), as a sub-consultant to Parson shall be responsible to provide Phase-I lighting assessments and concepts plans for locations and miscellaneous tasks to be determined by Lake County

Scope of Work:

The scope includes following tasks:

- 1. Lighting assessment:
 - 1.1. Data Collection (site visits and review existing conditions)
 - 1.2. Lighting System Warrant Analysis
 - 1.3. Lighting Assessment report
 - 1.4. Photometric study (7 signalized intersections and straight Roadway)
 - 1.5. Concepts lighting Plans ((5)100 Scale Drawings)
 - 1.6. Photo-Log
 - 1.7. Coordination with Local and State Agencies for preferences, participation, and special requirements.

SINGH shall not be obligated to provide nor entitled to compensation for any out-of-scope services, unless agreed to via supplemental agreements.

Prepared By: Rashesh Patel



ESTIMATE OF HOURS CONSULTANT SERVICES

Project Name: Lewis Avenue Corridor:

Client: Lake County Division of Transportation

Project Location: Lewis Avenue between Illinois Route 137 to Belvidere Road

Job No.:

PTB No.:

SINGH Project No.: 22140

Item	Phase / Subphase Activity	Notes	Principal Engineer	Engineer V	Engineer III	Engineer II	Engineer I	SINGH Hours
1.00	Lighting assessment							
1.01	Site Visit and Data Collection				12	12		24
1.02	Lighting System Warrant Analysis	including any pedestrian lighting		8	8	16		32
	Lighting assesment reports	including photo log		2	10	12		24
	SUBTOTAL		0	10	30	40	0	80
2.00	Proposed Roadway lighting Concept Photometric	Study						
	Signalized intersection lighting calculations/with transition lighting	7 intersection and Roadway		4	16	32	32	84
								0
	SUBTOTAL		0	4	16	32	32	84
4.00	Concept Lighting Plans							
4.00	Concept Lighting Plans							
	Concept Lighting Plans Concept Plans	3 miles/13728 ft – 5 sheets at 1:100 scale x 12 hours – 60 hours		4	12	20	24	60
4.01				4	12 4	20 6	24 8	60 20
4.01	Concept Plans Concept level Cost estimate	60 hours		2	4	6	8	20 0
4.01	Concept Plans	60 hours	0					20
4.01	Concept Plans Concept level Cost estimate	60 hours	0	2	4	6	8	20 0
4.01 4.02	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management	60 hours	0	2	4	6	8	20 0
4.01 4.02 5.01	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management QAQC	60 hours	0	2 6 8	4	6	8	20 0 80
4.01 4.02 5.01	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management QAQC Project Management and Meeting	60 hours	0	2 6 8 8	4	6	8	20 0 80 80
4.01 4.02 5.01	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management QAQC	60 hours	0	2 6 8	4	6	8	20 0 80
4.01 4.02 5.01	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management QAQC Project Management and Meeting	60 hours		2 6 8 8	4 16	6 26	8 32	20 0 80 80
4.01 4.02 5.01	Concept Plans Concept level Cost estimate SUBTOTAL QAQC and Project Management QAQC Project Management and Meeting SUBTOTAL	60 hours	0	2 6 8 8 8 16	4 16 0	6 26	8 32	20 0 80 8 8 8 8 8 16



FIXED RAISE

EXHIBIT D

Local Public Agency	County	Section Number
Lake County	Lake	22-00082-11-WR
Prime Consultant (Firm) Name	Prepared By	Date
PARSONS	Rashesh Patel	5/19/2022
Consultant / Subconsultant Name	Job Number	
Singh & Associates, Inc		
Note: This is name of the consultant the CECS is being completed		

for. This name appears at the top of each tab.

Remarks

Romanico			

PAYROLL ESCALATION TABLE

CONTRACT TERM		MONTHS
START DATE		
RAISE DATE	1/1/2023	

OVERHEAD RATE 156.83% COMPLEXITY FACTOR % OF RAISE 2.00%

END DATE 7/31/2024

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	8/1/2022	1/1/2023	5	20.83%
1	1/2/2023	1/1/2024	12	51.00%
2	1/2/2024	8/1/2024	7	30.35%

Local Public Agency

County

Section Number

Lake County Lake
Consultant / Subconsultant Name

22-00082-11-WR Job Number

Singh & Associates, Inc

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	2.18%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal Engineer	\$78.00	\$78.00
Engineer V	\$73.32	\$74.92
Enginner IV	\$61.99	\$63.34
Engineer III	\$56.98	\$58.22
Engineer II/Designer III	\$48.67	\$49.73
Engineer I/Designer II	\$36.29	\$37.08
Proposal Coordinatior/Admin	\$21.01	\$21.47

Local Public Agency

County Lake

Section Number

22-00082-11-WR

Job Number

Lake County

Consultant / Subconsultant Name Singh & 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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees	Actual Cost			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD) Air Fare	Coach rate, actual cost, requires minimum two weeks'			\$0.00
Vehicle Mileage	notice, with prior IDOT approval	420	¢0.50	
(per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	430	\$0.59	\$251.55
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
d 5/19/2022 1:19 PM			ECT COSTS:	BLR 05514 (Rev \$251.55

17/22)

Local Public Agency

County

Section Number

22-00082-11-WR

Job Number

Consultant / Subconsultant Name

Singh & Associates, Inc

Lake County

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 156.83%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Lighting Assesment	80	4,485	7,034	\$0.00	1,480		12,999	32.88%
Photometric Study	84	4,009	6,288	252	1,323		11,872	30.03%
Concept Lighting Plans	80	3,861	6,055		1,274		11,190	28.30%
QAQC and Project Management	16	1,199	1,880		396		3,475	8.79%
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
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Subconsultant DL		-	-		- 0		-	_
TOTALS	260	13,554	21,257	252	4,473	-	- 39,536	100.00%

Lake

Local Public Agency Lake County

Consultant / Subconsultant Name

County

Section Number

1

22-00082-11-WR

Job Number

Singh & Associates, Inc

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

																		-	-	
PAYROLL	AVG	TOTAL PRO	J. RATES					Pho	QAQC and Project Photometric Study Concept Lighting Plans Management											
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg	
Principal Engineer	78.00	0.0																		
Engineer V	74.92	36.0	13.85%	10.37	10	12.50%	9.36	4	4.76%	3.57	6	7.50%	5.62	16	100.00%	74.92				
Enginner IV	63.34	0.0																		
Engineer III	58.22	62.0	23.85%	13.88	30	37.50%	21.83	16	19.05%	11.09	16	20.00%	11.64							
Engineer II/Designer III	49.73	98.0	37.69%	18.74	40	50.00%	24.87	32	38.10%	18.94	26	32.50%	16.16							
Engineer I/Designer II	37.08	64.0	24.62%	9.13				32	38.10%	14.13	32	40.00%	14.83							
Proposal Coordinatior/Adm	21.47	0.0																		
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TOTALS		260.0	100%	\$52.13	80.0	100.00%	\$56.06	84.0	100%	\$47.73	80.0	100%	\$48.26	16.0	100%	\$74.92	0.0	0%	\$0.00	

SHEET 1 OF

Lake

Subconsultant:

Images

	Lewis Avenue Phase I- Outreach Activities	Total
	Lake County DOT	MH
	Images, Inc.	
	Scope	450
1	Mailing List, Strategy, Kick-off	
	Create and maintain Stakeholders List	50
	PI strategy and Messaging	30
2	Specialty Graphics- PARSONS SCOPE	80
2	Specially Graphics- PARSONS SCOPE	0
	Develop specialty graphics for reports and other	
	communication materials (up to 10)	0
		0
2	Public Meetings (2 in-person mtgs)	0
5	ID location and visit, meeting planning, equipment rental -	
	REMOVED: LCDOT to handle	0
	Press Release- Prepare, edit and LC distributes (2)	0
	Brochure (2)-Draft, Design, Graphics, and Edit (up to 4 pages -2	+
	rounds edits)	90
	E-blast Invitation- Draft, Design, Edit, set up in software (1	50
	round)	15
	Dry Run Preparation	23
	Attend and set up Dry Run	16
	Media Briefing- planning, invitation distribution	10
	Media Packet- Prepare	2
	Meeting prep and materials-Badges, sign-in sheets, comment	2
	forms, staffing plan, venue room layout	8
	3rd Party Outreach/ads and coordination	12
	Draft, design, and place 2 ads each	10
	Design, Draft (Assist), and edit (up 2 rounds each) Exhibit	
	boards-20 boards Dry Run and Final- PARSONS SCOPE	0
	Attend PMs-set up and breakdown	54
	Public meeting summaries (includes summary and response to	51
	questions)- PARSONS SCOPE	0
		249
4	Website/Social Media- LAKE COUNTY TO HANDLE	0
	Website updates (up to 6 updates) - draft content/graphics,	
	review, and post	0
	Manage proeject social media and develop plan- draft, edit,	0
	graphics for posts, (up to 1 post per month for LC media sites;	
	30 months)	0

	0
5 Comment Response and Documentation- PARSONS SCOPE	
Pull comments from website and other sources,	
organize/catagorize, document. Comments and questions will	
be summarized with responses in public meeting summary - up	
to 200 comments	0
6 IDOT/Consultant Coordination, Administration	
Consultant (Parsons) coordination and meetings(14 mtgs.; 2ppl,	
up to 1 hr each)	28
Administration	25
LCDOT coordiation meetings (2ppl.; 12 months 2 hrs per month	48
QA/QC	20
	121



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

EXHIBIT E

Local Public Agency Lake County Division of Transport Consultant (Firm) Name Parsons		County Lake County Prepared By Tracy Morse, ESCALATIC			Section Number 22-00082-11-WR Date 5/19/2022
RAISI	DATE 8/1/2022 DATE 9/1/2022 DATE 7/31/2024	MONTHS	YFAR		ERHEAD RATE 144.28% EXITY FACTOR 0 % OF RAISE 2.00%
<u>Yea</u>	_	Last Date 9/1/2022 9/1/2023 8/1/2024	Months 1 12 11	% of Contract 4.17% 51.00% 47.69%	_
	The to	tal escalation	= 2.85%	6	_

Local Public Agency	County	
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Lake County Division of

Transportation

22-00082-11-WR

MAXIMUM PAYROLL RATE78.00ESCALATION FACTOR2.85%

Lake County

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Project Administrator	\$51.09	\$52.55
Sr. Project Manager III	\$62.50	\$64.28
Director	\$78.00	\$78.00
Sr. Graphic Designer II Sr. Project Coordinator	\$51.11	\$52.57
Sr. Project Coordinator	\$36.77	\$37.82

Local Public Agency
Lake County Division of Transportation

County Lake County **Section Number**

22-00082-11-WR

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE 144.28%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Task 3 Public Involvement	405	25,472	36,750	8,621	8,406		79,249	93.25%
Administration	25	1,314	1,895		434		3,643	4.29%
QA/QC	20	756	1,091		250		2,097	2.47%
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Subconsultant DL					0		-	
TOTALS	450	27,542	39,736	8,621	9,090	_	84,989	100.00%

67,278

County

Section Number

Local Public Agency Lake County Division of Transportation

Lake County

22-00082-11-WR

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL	AVG	TOTAL PRO			Took 2 I	Public Invo	homont		dministrati	o.n.		QA/QC							
PATROLL	HOURLY	Hours	J. KATES	Wgtd	Hours	with the second	Wgtd	Hours	%	Wgtd	Hours	QA/QC %	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES	nours	Part.	Avg	nours	Part.	Avg	Tiours	Part.	Avg	nours	Part.	Avg	nours	Part.	Avg	nours	Part.	Avg
Project Administrator	52.55	25.0	5.56%	2.92			7.09	25	100.00%	52.55		. arti	, rug					i ui u	
Sr. Project Manager III	64.28	99.0	22.00%	14.14	99	24.44%	15.71	20		02.00									+
Director	78.00	160.0	35.56%	27.73	160	39.51%	30.81												
Sr. Graphic Designer II	52.57	75.0	16.67%	8.76	75	18.52%	9.73												
Sr. Project Coordinator	37.82	91.0	20.22%	7.65	71	17.53%	6.63				20	100.00%	37.82		-				
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TOTALS		450.0	100%	\$61.20	405.0	100.00%	\$62.89	25.0	100%	\$52.55	20.0	100%	\$37.82	0.0	0%	\$0.00	0.0	0%	\$0.00



COMPANY NAME: Images, Inc.

PTB NUMBER: Lake County DOT - Lewis Avenue

TODAY'S DATE: 5/19/2022

Purphysic per GOVERNORSInvata Coal (Up to sitter rate maximum)Image: Constant of the sector of the secto	ІТЕМ	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Open CONSENSOR'S TRAVEL CONTROL BOARD Actual cost Image of the set material mater		Up to state rate maximum		2	\$28.00	\$56.00
jung-SolveshorsTextual costinstant actual costinstant actual costinstant actual costWalking (up COVENORS TRAVEL OUNTROL SOLVER)Up to akin rate maxmum200So 555So 1717Valking (up COVENORS TRAVEL OUNTROL SOLVER)Up to akin rate maxmum200So 555So 1717Valking (up COVENORS TRAVEL OUNTROL SOLVER)Actual cost (bo to \$250kay)10So 555So 555Valking KanalActual cost (bo \$250kay)10So 555So 555So 555Valking KanalActual cost (boot \$250kay)10So 500So 555So 555ParkingActual cost (boot \$250kay)10So 500So 555So 555OwntratioActual cost (boot \$200kay)10So 500So 500So 500Copes of Delevableshifysing (houtenetsion)10So 500So 500So 500OvernatioActual cost (boot \$200kay)100So 500So 500Copes of Delevableshifysing (houtenetsion)100So 500So 500Project Spocific InstanceActual cost (boot \$200kay)So 500So 500Nourneent (Perment)Actual cost (boot \$200kay)So 500So 500Project Spocific InstanceActual cost (boot \$200kay)So 500So 500Project Spocific Instance <t< td=""><td>(per GOVERNOR'S TRAVEL CONTROL BOARD)</td><td>Actual cost (Up to state rate maximum)</td><td></td><td>1</td><td>\$85.00</td><td>\$85.00</td></t<>	(per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)		1	\$85.00	\$85.00
Air PareConcir trait, straited cost, requires minimum how works? notion.ImageSimulationSimulationVertice Metalsop (per GOVERNOPS TRAVEL CONTROL LEXAND)Lp is natar team maximum200030003000Vertice Metal Vertice MetalStatul cost (fr bursts or less) of Sebful day)Image30003000Vertice Metal Vertice MetalActual cost (fr bursts or less) of Sebful day)Image30003000TollsActual cost (fr bursts or less) of Sebful day)Image30003000Overright Delivers/DesigeCourter SettionActual cost (frober seption)Image30003000Overright Delivers/DesigeCourter SettionActual cost (frober seption)Image30003000Operand Delivers/DesigeCourter SettionActual cost (frober seption)ImageImage3000Operand Delivers/DesigeCourter SettionActual cost (frober seption)ImageImage30003000Operand Delivers/DesigeCourter SettionActual cost (frober seption)ImageImage<		Actual cost		1	\$15.00	\$15.00
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Vehicle RenalActual cost (Up to \$5st6shy)Image: Cos	U (1			200	\$0.585	\$117.00
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ParkingActual costSetS \$40.00S \$40.00 </td <td>Vehicle Rental</td> <td>Actual cost (Up to \$55/day)</td> <td></td> <td></td> <td>\$0.00</td> <td>\$0.00</td>	Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.00
OvertimePremium portion (Submit supporting documentation)Image: Submit Support documentation)Image: Submit Suppor	Tolls	Actual cost		10	\$1.50	\$15.00
Shift DifferentialActual cost (Based on firm's policy)II <t< td=""><td>Parking</td><td>Actual cost</td><td></td><td>5</td><td>\$40.00</td><td>\$200.00</td></t<>	Parking	Actual cost		5	\$40.00	\$200.00
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Copies of Deliverables/Mylars (Outside)Actual cost (Submit supporting documentation)100\$2.00\$2.00Project Spacific InsuranceActual cost\$0.00\$0.00Prote ProcessingActual cost\$0.00\$0.002-Way Radio (Survey or Phase III Only)Actual cost\$0.00\$0.002-Way Radio (Survey or Phase III Only)Actual cost\$0.00\$0.002-Way Radio (Survey or Phase III Only)Actual cost\$0.00\$0.00CADDActual cost (Submit supporting documentation)\$0.00\$0.00Actual cost (Submit supporting documentation)\$0.00\$0.00Actual cost (Submit supporting documentation)\$0.00\$0.00Public Meating Facility RentalActual cost (Submit supporting documentation)\$0.00\$0.00Public Meating Facility RentalActual cost (Submit supporting documentation)\$0.00\$0.00Public Meating Facility RentalActual cost (Submit supporting documentation)\$0.00\$0.00Stom Saver Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)\$0.00\$0.00Stom Saver Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)\$0.00\$0.00Ibility Exploratory TenchingActual cost (Requires 2-3 quotes with IDOT approval)\$0.00\$0.00Ibility Exploratory TenchingActual cost (Requires 2-3 quotes with IDOT approval)\$0.00\$0.00Ibility Expl	Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)		5	\$40.00	\$200.00
Project Spacific InsuranceActual costActual costImage: Spacific InsuranceImage: Spacific InsuranceSpacific Insurance<	Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)		200	\$1.00	\$200.00
Monuments (Permanent)Actual costImage: Cost of the set	Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)		100	\$2.00	\$200.00
Photo ProcessingActual costImage: Section of the section of th	Project Specific Insurance	Actual cost			\$0.00	\$0.00
2-Way Ratio (Survey or Phase III Only)Actual costImage (Traffic System Monitoring Only)Actual cost (Max \$15/hour)Image (Traffic System Monitoring Only)Actual cost (Max \$15/hour)Image (Traffic System Monitoring Only)Actual cost (Submit supporting documentation)Image (Traffic System Monitoring Only)Image (Traffic System Monitoring	Monuments (Permanent)	Actual cost			\$0.00	\$0.00
Lephone Usage (Traffic System Monitoring Only)Actual costActual costSolutionSolutionCADDActual cost (Max S15/hour)Image: Solution State Solution State Solution State Solution State Solution State Solution State Solution S		Actual cost			\$0.00	\$0.00
CADDActual cost (Max \$15/hour)Image: State S	2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.00
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Public Meeting Facility RentalActual cost (Submit supporting documentation)Image: Cost (Submit supporting documentation) </td <td>Web Site</td> <td>Actual cost (Submit supporting documentation)</td> <td></td> <td></td> <td></td> <td>\$0.00</td>	Web Site	Actual cost (Submit supporting documentation)				\$0.00
Public Meeting Exhibits/Renderings & EquipmentActual cost (Submit supporting documentation)Image: Submit supporting documentation)I	Advertisements	Actual cost (Submit supporting documentation)		4	\$500.00	\$2,000.00
Recording FeesActual costImage: Second CostSecond Cost	Public Meeting Facility Rental	Actual cost (Submit supporting documentation)		2	\$800.00	\$1,600.00
Recording FeesActual costImage: Second costSecond cost	Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Courthouse FeesActual costImage: Courthouse FeesActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesStorn Sewer Cleaning and TelevisingActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesActual cost (Requires 2-3 quotes with IDOT approval)Image: Courthouse FeesActual CostActual CostImage: Courthouse FeesActual CostImage: Courthouse FeesAct	Recording Fees	Actual cost			\$0.00	\$0.00
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Lab Services*Actual cost (Provide breakdown of each cost)Image: Services of the services of						\$0.00
Equipment and/or Specialized Equipment Rental*Actual cost (Requires 2-3 quotes with IDOT approval)Image: Constant of the stant						\$0.00
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*If other allowable costs are needed and not listed, please add in the above spaces provided.

LEGEND

W.O. = Work Order

PRINTED 6/9/2022

Exhibit G Vendor Certification Form



VENDOR CERTIFICATION FORM

Bid/RFP/SOI Number:		Section Number 22-00082-11-WR							
Vendor Name:		Parsons Transportation Group, Inc.							
Address:									
		10 South Riverside, Suite 400, Chicago, IL 60606							
Primary Contact Name:		Jeffrey Hall							
Primary Contact Email A	Address:	Jeffrey.Hall@Parsons.com							
Primary Contact Phone	Number:	312-930-5160							
Project Manager Name:	:	Jeffrey Hall							
Project Manager Email	Address:	Jeffrey.Hall@Parsons.com							
Project Manager Phone	Number:	312-930-5160							
# Years in Business:		78+ years	Number of Employees:	16,000+ Worldwide					
Annual Sales:		\$4.6B Contract Awards	Dunn & Bradstreet #:	00-797-9396					
collected for reporting	purposes	lease identify all of the following only and not vendor selection. ndor Certification Form).							
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I certify that this information is accurate to the best of my knowledge and that I am authorized to provide this information on behalf of my company.

Signature, Title

Amar Rajpurkar, Vice President

July 13, 2022

Printed Name, Title

Date



Vendor Certification Definitions

Minority-owned business (MBE)

A business concern which is at least 51% owned by one or more minority persons, or in the case of a corporation, at least 51% of the stock in which is owned by one or more minority persons; and the management and daily business operations of which are controlled by one or more of the minority individuals who own it.

• Woman-owned business (WBE)

A business which is at least 51% owned by one or more women, or, in the case of a corporation, at least 51% of the stock in which is owned by one or more women; and the management and daily business operations of which are controlled by one or more of the women who own it.

• Veteran-owned Business Enterprise (VBE)

A small business (i) that is at least 51 percent owned, controlled and managed by one or more Eligible Veterans or in the case of a corporation, at least 51 percent or more of the stock of which is owned, controlled and managed by one or more Eligible Veterans.

- Eligible Veteran means a person who (i) has been either a member of the armed forces of the United States or, while a citizen of the United States, was a member of the armed forces of allies of the United States in time of hostilities with a foreign country and (ii) has served under one or more of the following conditions: (a) the veteran served a total of at least 6 months; (b) the veteran served for the duration of hostilities regardless of the length of the engagement; (c) the veteran was discharged on the basis of hardship; or (d) the veteran was released from active duty because of a service connected disability and was discharged under honorable conditions.
- Armed forces of the United States means the United States Army, Navy, Air Force, Marine Corps, Coast Guard or service in active duty as defined under 38 U.S.C. Section 101. Service in the Merchant Marine that constitutes active duty under Section 401 of federal Public Act 95-202 shall also be considered service in the armed forces for purposes of this Division.

• Persons with Disabilities Owned Business Enterprise (PDBE) A small business (i) that is at least 51 percent owned. controlled and managed by one or more Persons with a Disability; or in the case of a corporation, at least 51 percent or more of the stock of which is owned, controlled, and managed by one or more Persons with a Disability.

• Disability or Disabled means, with respect to an individual, a physical or mental impairment that substantially limits one or more of the major life activities of the individual, a record of physical or mental impairment that substantially limits one or more of the major life activities of the individual, or being regarded as an individual with a physical or mental impairment that substantially limits one or the substantially limits one or more of the major life activities of the major life activities of the individual.

• Service-Disabled Veteran-owned Business Enterprise (SDVBE)

A small business (i) that is at least 51 percent owned, controlled, and managed by one or more qualified service disabled veterans or in the case of a corporation, at least 51 percent or more of the stock of which is owned, controlled and managed by one or more Service Disabled Veterans.

- Service-Disabled Veteran means an Eligible Veteran who has been found to have 10 percent or more service-connected disability by the United States Department of Veterans Affairs or the United States Department of Defense.
- Service-connected disability means a disability incurred in the line of duty in the active military, naval or air service as described in 38 U.S.C. 101(16).

• BEP – Business Enterprise Program

Business Enterprise Program (BEP) BEP assists businesses owned by minorities, women and people with disabilities gain access to the State of Illinois procurement process. BEP certification with the State of Illinois can also open the door to opportunities with other public and private entities which are looking for diverse suppliers.

• Small Disadvantaged Businesses (SDB) A Small Disadvantaged Business (SDB) is a small business owned and controlled by socially and economically disadvantaged individuals as defined by Federal Acquisition Regulation (FAR) 19.001

• Veteran-Owned Small Business (VOSB)

A Veteran-Owned Small Business (VOSB) is a small business that is at least 51 percent owned by one or more veterans; or, if a publicly owned business, at least 51 percent of the stock is owned by one or more veterans. Also, one or more veterans control management and daily business operations of the firm.

• Local business

A business that is either owned and operated with a mailing address within the boundaries of Lake County or a corporate business with at least one "brick and mortar" location within the boundaries of Lake County. No additional certification is required; however, address verification for location may be requested.

Exhibit H Vendor Disclosure Statement



VENDOR DISCLOSURE STATEMENT

Vendor Name:	Parsons Transportation Group, Inc.							
Address:	10 South Riverside, Suite 400, Chicago, IL 60606							
Contact Person:	Jeffrey Hall	Contact Phone #:	312-930-5160					
Bid/RFP/SOI/Contract/Renewal:	Section Number 22-00082-11-WR							

Vendors wishing to contract with Lake County for goods and services in an amount greater than \$30,000 shall submit this form in advance of award. This disclosure statement is not required for utility companies regulated by the Illinois Commerce Commission or local units of government. Vendors shall disclose:

- A familial relationship <u>between</u> a Lake County elected official, department director, deputy director and manager and owners, principals, executives, officers, account managers or other similar managerial positions of the vendor's company. Familial relationship is defined as a spouse (including civil partner), child, stepchild, parent, stepparent, grandparent, in-laws (including parent, grandparent, sibling, or child), relatives and non-relatives living in the same residence, and offspring born to any aforementioned person.
- All political campaign contributions made by the vendor or an owner, principal, executive, officer, account
 manager, or other similar managerial position of the vendor to any county board member, county board chair, or
 countywide elected official within the last five years.

If there is nothing to report in a section, please state none in the appropriate space.

FAMILIAL RELATIONSHIPS

List names and departments/agencies of Lake County employees or public officials with whom owners, principals, or officers of the vendor's company have a familial relationship and the nature of the relationship. Attach additional pages as necessary. (Provide all names or state none in the space below. Do not leave blank.)

Name and Department/Agency of Lake County			
Employee/Public Official	Familial Relationship		
NONE			

CAMPAIGN CONTRIBUTIONS

List campaign contributions that have been made within the last five years that exceed \$150 annually. Attach additional pages as necessary. (Provide all names or state none in the space below. Do not leave blank.)

Recipient	Donor	Description (e.g., cash, type of item, in-kind service, etc.)	Amount/Value	Date Made
NONE				

Continuing disclosure is required if information changes. This Vendor Disclosure Statement form is available at <u>www.lakecountyil.gov</u>.

The full text of the County's Ethics and Procurement policies and ordinances are available at <u>www.lakecountyil.gov</u>.

I hereby acknowledge that the information above is accurate and complete, that I am an authorized signer on behalf of the vendor, that I have read and understand these disclosure requirements, and that I agree to update this information if there are any related changes by submitting a new Vendor Disclosure Statement.

Authorized Signature:	Multiplic -	Title:	Vice President
Printed Name:	Amar Rajpurkar	Date:	July 13, 2022

Vendors must insert "x" in the following box indicating exception and provide a brief narrative for exception.